

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

EARTHQUAKE DATA REPORT

APRIL 1991

by

U.S. Geological Survey
NATIONAL EARTHQUAKE INFORMATION CENTER¹

Open File Report 91-604-A



This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards. Although this data file has been used by the U.S. Geological Survey, no warranty, expressed or implied, is made by the USGS as to the accuracy of this file, nor shall the fact of distribution constitute any such warranty, and no responsibility is assumed by the USGS in connection therewith.

1991

¹USGS, Denver, Colorado

EARTHQUAKE DATA REPORT

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

All data in the EDR are grouped by event, with events listed by origin time in date/time order through the month. All times are in Coordinated Universal Time (UTC). Locations are in decimal degrees of geographic latitude and longitude. Depths are in kilometers below the free surface. Hypocentral coordinates are determined by a modified Geiger's method and may be constrained by reported first arriving P-waves, Pdiff, and the DF branch of PKP. Data are corrected for station elevation and for the ellipticity of the Earth. Outliers may be truncated (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 Δ is the epicentral distance in degrees. Surface-wave magnitudes are determined only for earthquakes whose focal depths (taking into account the computed standard deviations) are potentially less than 50 km, for stations having $20^\circ \leq \Delta \leq 160^\circ$, and for reported periods of $18 \leq T \leq 22$ s. No correction for focal depth is used in the M_s calculation. Body-wave magnitudes are not determined from PKP arrivals or for stations having $\Delta \leq 5^\circ$. Amplitude values stated in this report are in nanometers (nm) for body-waves and micrometers (μm) for surface-waves.

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

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

Hypocenter Symbols

- & Indicates that parameters of the hypocenter were supplied or determined by a computational procedure not normally used by the National Earthquake Information Service (NEIS). The source or nature of the determination is indicated by a 2 to 5 letter code enclosed by angle brackets and appearing in the first line of comments. A "-P" appended to the code indicates that the computation is preliminary. These codes are included with the list of abbreviations in the PDE Monthly Listing.
- % Indicates a single network solution. A non-furnished hypocenter has been computed using data reported by a single network of stations for which the date and/or origin time cannot be confirmed from seismograms available to a NEIS analyst. Also, if we define η to be the geometric mean of the semi-major and semi-minor axes of the horizontal 90% confidence ellipse, then $\eta \leq 16.0$ km.
- * Indicates a less reliable solution. In general, $8.5 < \eta \leq 16.0$ km.
- ? Indicates a poor solution, published for completeness of the catalog. In general, $\eta > 16.0$ km. This includes poor solutions computed using data reported by a single network.

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

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

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.

* APR 01, 1991 01h 40m 46.35± 2.53s 51.126 N ±23.7km 15.904 E ±13.5km DEPTH = 10.0km (geophysicist) POLAND (548)			BFD 1.4s 12.00nm OIS 44.50 234 eP 07 13.00 -1.9 WB2 45.37 257 eP 07 20.00 -2.1 50.34 258 iPc 07 57.00 -3.8X 0.8s 6.50nm 4.7mb WRA 50.35 258 P 07 57.00 -3.9X 1.1s 6.40nm 4.5mb S8A 62.18 185 iP 09 26.50 1.7 MBL 63.70 254 eP 09 34.00 -1.7 MAT 70.31 320 (P) 10 16.00 -1.2 1.9s 131.58nm 5.7mb eS 18 56.00 SYP 71.27 44 eP 10 23.00 -0.2 PRS 71.45 42 eP 10 23.00 -0.3 PCC 71.54 40 eP 10 23.00 -1.6 SAO 71.67 41 eP 10 25.20 -0.2 PRI 71.79 42 eP 10 27.00 0.8 BRK 71.85 40 eP 10 26.70 0.3 BKS 71.87 40 iPd 10 27.10 0.6 0.7s 53.00nm 5.7mb eLO 29 10.00 e 34 58.00 MHC 71.90 41 eP 10 26.30 -0.6 PAS 72.26 45 eP 10 27.00 -2.0 MWC 72.38 45 eP 10 30.00 0.1 BAR 72.47 47 eP 10 30.00 -0.3 PLM 72.71 46 eP 10 32.00 0.1 RVR 72.72 46 eP 10 31.00 -0.6 SB8 72.81 45 eP 10 32.00 -0.2 FRI 72.91 42 eP 10 32.20 -0.5 ISA 72.94 44 eP 10 33.00 0.0 CMB 73.12 41 ePc 10 33.50 -0.4 ORV 73.37 39 eP 10 34.70 -0.6 WDC 73.40 38 eP 10 35.30 -0.2 SPA 73.56 180 iPc 10 35.60 -0.6 1.0s 35.00nm 5.3mb i 11 11.40 CLC 73.61 44 eP 10 36.00 -0.8 TPC 73.69 46 eP 10 37.00 -0.4 MIN 73.80 38 eP 10 37.70 -0.3 GSC 73.84 45 eP 10 38.00 -0.3 GLA 73.98 48 eP 10 39.00 -0.1 TNP 75.16 42 iPc 10 45.40 -0.6 1.2s 63.71nm 5.5mb pP 10 52.50 23kmX sP 11 00.00 PGC 78.22 31 eP 11 03.00 0.5 SVW 78.58 8 eP 11 03.60 -0.7 PMR 80.09 11 eP 11 11.10 -1.3 1.4s 79.40nm 5.5mb TTA 80.28 8 eP 11 13.50 0.0 MDJ 80.41 322 eP 11 14.50 0.0 Z 20s 0.47um 4.8Msz PNT 80.57 32 eP 11 15.00 -0.3 0.9s 51.00nm 5.5mb ALO 80.94 50 ePc 11 17.30 -0.5 1.2s 25.39nm 5.1mb Z 18s 0.69um 5.0Msz ANM 81.05 3 eP 11 18.10 0.7 TOA 81.13 12 eP 11 18.10 0.0 NEW 81.22 34 eP 11 19.10 0.3 1.2s 10.98nm 4.7mb pP 11 24.10 16kmX CN2 82.46 320 Pc 11 25.00 -0.2 1.0s 20.00nm 5.1mb Z 20s 0.60um 5.0Msz ePP 11 37.50 SNY 82.64 317 Pc 11 25.40 -0.8 1.8s 200.00nm 5.9mb PP 11 35.50 FBA 83.38 10 iPc 11 29.30 -0.2 IMA 83.59 8 ePc 11 30.80 0.0 1.4s 43.20nm 5.4mb GOL 83.89 46 iPd 11 33.20 0.2 1.0s 32.00nm 5.4mb pP 11 36.90 12kmX GLD 84.02 46 eP 11 34.40 0.8 1.1s 34.72nm 5.4mb TIA 84.54 310 eP 11 36.80 0.8 KGM 84.91 274 eP 11 40.00 1.7 SES 85.70 34 ePd 11 41.00 -0.6 1.1s 119.00nm 6.0mb EDM 86.06 31 eP 11 42.50 -0.7 RSSD 86.78 42 iP 11 46.60 -0.6 0.9s 17.19nm 5.3mb pP 11 51.50 15kmX BJI 86.82 313 eP 11 47.50 0.3			1.5s 140.00nm 6.0mb eSKS 22 14.00 IPM 87.83 275 ePd 11 52.20 -0.5 TIY 88.58 310 Pc 11 56.50 0.7 Z 22s 0.65um 5.0Msz SNG 88.96 278 eP 12 00.50 2.5 INK 89.20 14 eP 11 57.00 -1.0 GYA 89.27 298 P 12 00.60 1.2 PP 12 00.00 SKS 22 22.00 S 22 36.00 XAN 89.93 306 P 12 02.90 0.6 HHC 90.37 313 eP 12 05.00 0.8 YAK 90.45 337 eP 12 02.20 -1.7 YKA 90.84 23 eP 12 04.60 -1.1 1.3s 12.50nm 5.1mb BTO 91.38 312 eP 12 09.50 0.6 ePP 12 16.00 eSKS 22 41.00 NST 91.84 286 eP 12 16.00 4.8X KMI 92.22 295 Pc 12 15.00 1.8 1.6s 90.00nm 6.0mb FFC 92.63 33 ePd 12 13.60 -0.5 1.6s 68.00nm 5.8mb KHT 93.02 284 eP 12 18.70 2.0 CD2 93.07 301 eP 12 17.80 1.0 BDT 93.32 287 eP 12 19.00 1.0 LZH 94.53 306 eP 12 24.00 0.5 2.0s 61.00nm 5.7mb Z 40s 0.73um 4.8MszX MBC 97.90 11 eP 12 40.00 2.2 GTA 98.50 308 eP 12 41.80 0.4 1.2s 10.00nm 5.2mb LPB 98.64 110 eP 12 45.00 2.1 Z 18s 1.37um 5.5Msz LR 45 24.00 CNC8 98.65 110 P 12 48.00 4.9X ZOBO 98.70 110 P 12 45.00 1.6 Z 24s 0.33um 4.7MszX SKS 23 32.00 LR 45 12.00 MAIO 130.01 304 ePKP 18 13.00 -0.3 CLL 145.04 354 ePKP 18 39.00 -1.2 1.4s 27.00nm KSP 145.05 350 ePKP 18 39.00 -1.3 KRA 145.08 346 ePKPd 18 39.10 -1.2 1.2s 66.00nm e 18 42.40 e 18 46.70 ARO 145.29 266 iPKP+ 18 34.00 -7.8X BRG 145.36 353 ePKP 18 39.50 -1.3 1.6s 40.00nm BNS 145.67 0 iPKPd 18 41.70 0.4 0.6s 33.00nm UCC 145.75 3 PKP+ 18 41.00 -0.4 SPC 145.81 345 ePKP 18 41.70 -0.1 MOX 145.82 355 ePKP 18 42.00 0.4 1.5s 45.00nm ENN 145.85 2 ePKP 18 42.00 0.4 1.1s 28.00nm MEM 146.01 2 PKPc 18 41.70 -0.1 SNF 146.03 4 iPKPd 18 42.70 0.8 PRU 146.15 352 ePKPc 18 42.70 0.6 1.6s 87.50nm e 18 45.50 TNS 146.40 359 ePKPc 18 43.20 0.6 DOU 146.46 3 PKP 18 43.50 0.9 VRI 146.61 335 ePKPc 18 44.00 1.0 ABH 146.75 360 ePKP 18 45.02 1.9 GRF 146.80 355 e(PKP) 18 45.00 1.8 e 18 48.50 e 19 05.20 PSZ 147.07 344 iPKP 18 46.30 2.5X KHC 147.12 353 iPKPc 18 45.60 1.8 1.0s 11.00nm e 19 07.00 FLN 147.23 10 ePKP 18 43.60 -0.3 1.2s 35.70nm Z 20s 0.30um 5.1Msz ZST 147.45 348 ePKP 18 47.20 2.9X LDF 147.45 9 ePKP 18 44.20 0.0 1.3s 32.50nm GRR 147.53 10 ePKP 18 44.70 0.3 1.4s 56.65nm TNR 147.73 338 ePKPd 18 49.00 4.2X CMP 147.77 336 ePKPd 18 49.00 4.1X LPF 147.84 11 ePKP 18 45.70 0.8		
S.D. = 1.2 on 6 of 8 obs.								
APR 01, 1991 01h 59m 04.75± 0.21s 16.550 S ± 6.9km 172.591 W ± 5.4km DEPTH = 33.0km (normol) 5.3mb (29 obs.) 5.0Msz (8 obs.) SAMOA ISLANDS REGION (169) Mo=3.0*10**17 Nm (PPT). CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 17S, 34C Centroid Location: Origin Time 01:59: 8.0 0.7 Lat 16.54S 0.10 Lon 172.41W 0.06 Dep 15.0 FIX Half-duration 2.1 Moment Tensor: Scale 10**17 Nm Mrr=-1.04 0.05 Mtt=-0.04 0.08 Mff=-1.00 0.09 Mrt=0.71 0.16 Mrf=1.58 0.19 Mtf=-0.52 0.05 Principal Axes: T Val=1.98 Plg=62 Azm=295 N 0.19 0 204 P -2.17 28 114 Best Double Couple: Mo=2.1*10**17 NP1:Strike=203 Dip=17 Slip= 89 NP2: 24 73 90								
SVA 8.69 258 eP 01 14.20 3.0X SGE 9.13 262 eP 01 19.80 2.4 RAR 12.99 113 P 02 02.00 -7.6X S 04 20.00 PVC 18.29 264 iPc 03 23.50 5.8X DZM 20.53 251 iPc 03 40.50 -2.6 TVO 22.33 97 eP 04 02.00 0.7 1.0s 60.00nm 5.0mb PUZ 22.90 199 P 04 06.10 -0.7 NOZ 23.47 199 P 04 14.60 2.4 PMO 23.81 90 iP 04 14.70 -1.0 1.0s 50.00nm 5.0mb VAH 24.04 90 iP 04 16.50 -1.4 1.0s 30.00nm 4.8mb TPT 24.08 90 iP 04 17.50 -0.8 1.0s 60.00nm 5.1mb RUV 24.28 90 iP 04 18.80 -1.5 1.0s 45.00nm 5.0mb PGZ 25.85 200 eP 04 35.80 0.8 HNR 27.66 281 P 05 10.00 18.3X S 09 48.00 SVO 27.87 282 eP 04 58.00 4.4X LTZ 29.17 203 eP 05 07.20 2.0 COO 35.26 240 eP 05 56.00 -2.6 RMQ 37.17 248 eP 06 12.00 -2.7 CNB 38.68 234 eP 06 26.00 -1.4 CTA 39.16 258 eP 06 28.00 -3.4X 1.1s 25.32nm 4.9mb iS 12 46.00 PMG 39.81 275 e(P) 06 35.00 -1.8 CMS 40.53 241 eP 06 40.00 -2.6 TOO 42.36 232 eP 06 54.70 -2.9 STK 44.16 241 iPd 07 30.10 17.9X								

01d 02h

1.0s 40.00nm
BBTK 147.99 322 iPKPc 18 49.00 3.4X
KMR 148.10 351 iPKP+ 18 48.80 3.5X
i 18 53.30
i 19 09.20
i 22 41.30
CDF 148.22 0 ePKP 18 47.00 1.4
i 73.50nm
8HG 148.59 353 ePKP 18 50.40 4.3X
HAU 148.62 1 ePKP 18 48.10 1.9
i 39.70nm
Z 20s 0.28um 5.0msz
BZS 148.67 341 ePKP 18 45.50 -0.8
KBA 149.16 352 e(PKP) 18 49.00 1.7
i 19 03.70
i 19 12.30

LOR 149.23 5 ePKP 18 49.50 2.3X
i 23.80nm
Z 19s 0.60um 5.4msz
BHL 149.30 310 PKP 18 52.00 4.2X
MFF 149.38 10 ePKP 18 50.00 2.6X
i 93.30nm
SSF 149.40 5 ePKP 18 49.60 2.2X
i 46.95nm
LBF 149.52 5 ePKP 18 49.80 2.2X
i 41.40nm
HRI 149.52 308 ePKP 18 49.00 0.9
AVF 149.66 6 ePKP 18 50.30 2.5X
i 27.10nm
BEO 149.75 341 ePKP 18 52.50 4.6X
BGF 149.84 6 ePKP 18 51.10 3.0X
i 26.80nm
SMF 149.85 5 ePKP 18 50.50 2.4X
i 55.95nm
PTJ 149.88 348 e(PKP) 18 51.20 2.9X
ZAG 149.95 348 ePKP 18 50.50 2.3X
LSF 149.98 8 ePKP 18 50.90 2.6X
i 45.75nm
TCF 150.03 7 ePKP 18 51.20 2.8X
i 33.95nm
MAF 150.14 7 ePKP 18 51.80 3.3X
i 45.75nm
TRI 150.45 351 ePKP 18 56.00 7.0X
MKT 150.94 305 ePKP 18 52.00 1.7
LPL 151.12 1 ePKP 18 54.90 4.6X
i 47.45nm
LPG 151.13 1 ePKP 18 55.20 4.8X
i 46.65nm
MBH 151.61 302 ePKP 18 53.00 1.7
SKO 151.94 337 iPKP 18 58.50 7.1X
i 19 08.00
VAY 152.06 335 ePKP 18 41.00 -10.5X
FIR 152.66 354 ePKP 19 01.00 8.7X
OHR 152.93 337 ePKP 19 01.50 8.7X
IFR 159.68 31 iPKP 18 49.00 -12.8X
i 19 10.00

S.D. = 1.2 on 120 of 161 obs.

& APR 01, 1991 02h 03m 59.30s
62.449 N 150.709 W
DEPTH = 83.3km
CENTRAL ALASKA (1)
<AEIC>.

CUT 0.21 102 iPc 04 11.11 1.2
SKT 0.61 220 iPd 04 13.92 -0.6
eS 04 25.68
HUR 0.73 42 iPc 04 14.96 -0.8
eS 04 26.45
PWA 0.89 154 ePc 04 17.01 -0.5
eS 04 31.68
SUA 0.99 181 ePd 04 18.23 -0.6
eS 04 33.77
TRF 1.02 11 iPd 04 18.50 -0.8
eS 04 33.32
GHO 1.08 128 iPc 04 19.35 -0.5
S 04 35.47
PLRM 1.14 138 ePc 04 19.60 -0.9
NCG 1.25 214 iPd 04 21.15 -0.9
RND 1.28 41 iPd 04 21.26 -1.1
eS 04 38.34
PMS 1.33 155 eP 04 22.11 -0.8
eS 04 39.57
CRP 1.37 211 ePd 04 22.83 -0.8
eS 04 40.73
SPU 1.42 207 iPd 04 23.34 -0.9

eS 04 42.24
BGL 1.43 215 ePd 04 23.88 -0.5
CKL 1.48 212 ePd 04 24.12 -0.8
KNK 1.49 133 iPc 04 23.91 -1.1
S 04 43.45
MCK 1.52 31 eP 04 24.58 -0.9
SCM 1.70 110 ePc 04 26.47 -1.5
NKA 1.73 189 eP 04 29.78 1.6
BWN 1.82 17 ePd 04 28.47 -0.9
SLKM 1.96 173 eP 04 30.78 -0.6
RDT 2.05 204 ePc 04 31.51 -1.1
DFR 2.09 208 eP 04 31.92 -1.2
TOA 2.15 97 ePc 04 33.07 -0.9
NCT 2.17 210 eP 04 32.91 -1.4
RDN 2.18 208 eP 04 32.77 -1.6
REF 2.19 207 eP 04 32.99 -1.6
RDW 2.22 208 eP 04 33.71 -1.2
RS2 2.22 207 eP 04 34.64 -0.4
RSO 2.22 207 eP 04 34.20 -0.9
NEA 2.26 18 ePd 04 33.58 -1.8
GLI 2.34 131 ePc 04 34.52 -1.9
WRH 2.35 29 iPd 04 34.90 -1.6
SDG 2.40 86 eP 04 36.18 -1.1
VZW 2.42 123 eP 04 35.50 -2.1
SEW 2.43 165 eP 04 38.30 0.6
VLZ 2.46 121 eP 04 35.65 -2.5
PAX 2.47 75 eP 04 37.83 -0.5
TZL 2.51 97 eP 04 37.78 -1.0
KNIM 2.55 145 eP 04 36.07 -3.2
CCB 2.56 29 iPd 04 37.67 -1.8
DDM 2.58 56 eP 04 39.52 -0.3
HDA 2.59 39 iPd 04 38.35 -1.6
RDS 2.65 24 iPd 04 38.98 -1.7
MDM 2.75 23 iPd 04 40.44 -1.7
FBA 2.78 27 ePd 04 40.83 -1.7
MTU 2.88 148 eP 04 42.69 -1.2
CNPM 2.94 185 eP 04 44.05 -0.8
GLM 2.95 29 ePd 04 43.02 -1.8
CLB 3.41 104 eP 04 48.68 -2.6
MCNL 3.73 210 eP 04 54.56 -1.0
SYI 3.94 193 eP 04 57.42 -1.1
BALM 4.22 106 ePc 04 59.71 -3.0

53 obs. associated

* APR 01, 1991 03h 17m 34.52±0.94s
1.066 N ±11.6km 98.306 E ±9.6km
DEPTH = 33.0km (normal)
4.7mb (5 obs.)

NORTHERN SUMATERA (706)

IPM 4.42 38 ePc 18 40.00 -1.1
0.4s 62.20nm
KGM 5.10 79 ePd 18 52.10 1.4
SNG 6.49 21 eP 19 10.00 -0.3
KHT 13.63 1 eP 20 54.50 6.5X
NST 14.63 7 iPd 21 07.50 6.5X
BDT 16.09 2 eP 21 20.00 0.0
0.6s 42.90nm 4.8mb
PKI 29.11 336 P 23 35.60 0.6
GUN 29.23 337 P 23 36.40 0.4
0.4s 15.00nm 5.1mb
DMN 29.27 336 P 23 37.20 0.9
KKN 29.36 336 P 23 36.40 -0.7
0.4s 7.00nm 4.7mb
GKN 29.81 335 P 23 41.20 0.2
ASPA 42.43 128 eP 25 27.40 -0.8
1.2s 5.80nm 4.2mb
HFS 86.39 330 eP 30 14.00 -0.6
0.4s 1.50nm 4.6mb
S.D. = 0.9 on 11 of 13 obs.

* APR 01, 1991 03h 40m 17.57±0.70s
37.251 N ±22.0km 57.408 E ±13.6km
DEPTH = 33.0km (normal)
4.5mb (6 obs.)

IRAN-USSR BORDER REGION (341)

MAIO 1.93 119 iPnc 40 48.00 -0.7
0.6s 8.42nm
eSn 41 16.00
BBTK 19.44 285 eP 44 44.00 -0.3
OBN 22.79 328 eP 45 19.00 0.9
1.2snm 7.8mb X
GKN 24.65 104 P 45 36.80 0.2
0.6s 10.00nm 4.6mb
DMN 25.20 104 P 45 42.40 0.4
KKN 25.25 104 P 45 43.00 0.6

0.6s 12.00nm 4.7mb
PKI 25.46 104 P 45 44.40 -0.1
0.8s 26.00nm 4.9mb
GUN 25.66 103 P 45 46.60 0.2
BRG 33.56 308 e(P) 46 57.80 1.5
APO 35.89 325 eP 47 15.50 -0.6
0.4s 2.10nm 4.4mb
NB2 37.31 325 P 47 27.00 -1.1
1.0s 6.80nm 4.5mb
FRB 70.64 338 eP 51 31.00 -0.3
YKA 80.39 356 eP 52 26.20 -0.5
0.8s 0.70nm 3.7mb
S.D. = 0.8 on 13 of 13 obs.

APR 01, 1991 03h 53m 04.66±0.17s
15.746 N ±3.8km 95.738 E ±2.8km
DEPTH = 15.0km (11 depth phases)
5.4mb (70 obs.) 6.1msz (18 obs.)
SOUTH BURMA (298)

Felt in western Thailand.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 32C
Centroid Location:
Origin Time 03:53: 8.6 0.4
Lat 15.89N 0.04 Lon 95.53E 0.03
Dep 58.7 2.4 Half-duration 3.7
Moment Tensor: Scale 10**17 Nm
Mrr= 1.70 0.20 Mtt= 3.82 0.26
Mff=-5.52 0.33 Mrt= 0.57 0.30
Mrf=-0.29 0.28 Mtf= 9.37 0.31
Principal Axes:
T Val= 9.63 Plg= 2 Azm=328
N 1.71 87 103
P -11.34 2 238
Best Double Couple: Mo=1.0*10**18
NP1: Strike= 13 Dip=87 Slip=-180
NP2: 283 90 -3

KHT 2.92 109 iPn 53 50.20 -1.1
eSg 54 46.20
BDT 3.47 64 ePn 53 57.00 -2.1
ePg 54 11.50
eSg 54 56.50
KBR 4.05 115 ePn 54 08.50 1.1
NST 4.23 90 ePn 54 01.50 -8.5X
e 54 12.50
SNG 9.76 150 ePn 55 30.00 2.4
eSg 58 27.00
KMI 11.40 34 eP 55 51.00 0.8
IPM 12.25 154 ePc 56 01.40 -0.2
e 59 57.30
01Z 13.85 74 P 56 24.70 1.9
N 11s 177.00um
E 13s 216.00um
S 59 06.00
LSA 14.52 344 P 56 26.00 -5.9X
E 14s 125.00um
GYA 14.74 42 P 56 35.00 0.5
Z 14s 61.10um
N 10s 71.70um
E 10s 76.40um
PP 56 46.00
S 59 14.00
GUN 15.16 325 P 56 36.20 -4.1X
PKI 15.18 323 P 56 35.90 -4.5X
DMN 15.38 322 P 56 38.20 -4.8X
KKN 15.41 323 P 56 38.30 -5.1X
KGM 15.56 151 ePd 56 51.00 5.9X
e 01 12.90
GKN 15.95 322 P 56 46.20 -4.1X
HYB 16.56 278 eP 56 56.50 -1.5
1.0s 140.00nm 5.0mb
eS 00 10.00
CD2 16.78 25 eP 56 59.90 -0.8
Z 12s 70.70um
E 10s 78.10um
iPP 57 09.00
IS 00 06.20
GZH 18.13 64 iPd 57 19.00 1.4
N 12s 96.70um
E 12s 63.80um
HKC 18.60 67 eP 57 28.00 4.6X
eS 00 54.00
KOD 18.62 255 iPd 57 24.00 0.0
POO 21.10 281 eP 57 50.50 -0.6
NDI 21.40 310 iPc 57 53.10 -1.0

01d 04h

BRG	72.80 319 iP	04 34.60 0.2	LPL	78.26 314 eP	05 05.60 -0.2	eSS	22 15.00
	1.3s 75.00nm	5.6mb		1.1s 52.50nm	5.5mb	PMR	87.63 26 eP
	i	04 39.40 15km	RSL	78.30 314 P	05 05.77 -0.2		1.3s 38.70nm
	i	04 46.40	BNI	78.38 314 P	05 08.00 1.6	SLKM	87.69 27 eP
	eS	14 03.00	PRY	78.65 238 iPc	05 07.50 -0.6	EHOR	88.89 309 eP
KMR	72.89 316 iP+	04 37.20 2.2		1.0s 40.00nm	5.4mb	INK	89.04 16 eP
	i	04 53.40 59kmX	FRF	78.68 312 eP	05 07.70 -0.2	EJIF	89.51 308 eP
KHC	73.16 317 iP	04 36.50 -0.1		1.0s 72.00nm	5.7mb	IFR	90.20 305 iPd
	1.0s 11.00nm	4.9mb	DZM	78.79 117 iPc	05 13.00 4.1X	BALM	90.70 24 eP
Z	18s 5.10um	5.8msz	DOU	78.82 319 P	05 11.50 3.0X	AVE	92.07 305 iP
N	18s 8.50um			e	05 21.00 30kmX	GDH	92.47 349 eP
E	18s 5.50um			S	15 10.00		i
	S	14 06.00	LMR	78.82 312 eP	05 08.60 0.0	YKA	98.45 14 eP
TRI	73.34 314 eP	04 36.10 -1.6		1.2s 74.40nm	5.6mb		1.0s 1.50nm
	e	13 52.00	UCC	78.83 320 P	05 13.90 5.4X	BW06	117.29 21 ePKP
	e	14 16.00		S	15 06.00	RSSD	117.75 16 e(PKP)
	e	14 52.00	LRG	78.91 312 eP	05 09.30 0.2	GOL	121.43 19 PKP
	e	23 14.00		1.0s 88.00nm	5.7mb	ANMO	125.36 22 ePKP
	e	32 56.00	Z	21s 8.00um	6.0msz		0.8s 5.60nm
CLL	73.36 319 eP	04 37.00 -0.6	SNF	78.93 319 P	05 09.60 0.5	ALO	125.36 22 ePKP
	21s 105.00nm	5.4mb	ANM	79.69 26 e(P)	05 13.80 0.9		1.0s 5.75nm
	i	04 42.20 17km	LOR	79.87 316 eP	05 13.60 -0.7	Z	20s 3.55um
	eS	14 05.00		1.3s 28.90nm	5.1mb	VAO	144.16 252 ePKP
KBA	73.50 315 iPc	04 38.00 -0.8	Z	21s 9.75um	6.1msz	PPD	148.25 254 ePKP
	1.0s 30.60nm	5.3mb	SMF	80.01 316 eP	05 14.60 -0.4	CNCB	164.33 264 PKP
	i	04 42.00 13km		1.1s 37.85nm	5.3mb	LPB	164.45 265 PKP
	i	05 08.70	SSF	80.14 316 eP	05 15.40 -0.3	ZOBO	164.48 266 PKP
	i	05 17.20		1.0s 29.00nm	5.2mb		1.0s 2.50nm
	e	07 05.00	DAG	80.19 348 eP	05 14.00 -1.4	Z	20s 2.54um
WET	73.62 317 eP	04 39.70 0.4		1.0s 18.00nm	5.0mb		i
NB2	73.72 330 P	04 38.80 -0.8	Z	18s 12.78um	6.3msz		LR
	0.9s 26.90nm	5.3mb	N	22s 9.48um			12 20.00
BHG	73.76 316 eP	04 40.10 0.0	AVF	80.31 316 eP	05 16.20 -0.4	S.D. = 1.0 on 187 of 224 obs.	
FVI	73.94 315 P	04 41.60 0.6		1.1s 36.65nm	5.3mb	* APR 01, 1991 04h 02m 18.70±1.47s	
ARV	74.17 311 P	04 42.90 0.4	BRW	80.69 18 eP	05 18.70 0.6	21.714 S ±15.4km 66.632 W ±18.4km	
MOX	74.29 319 eP	04 44.00 0.9	BGF	80.70 316 eP	05 18.70 0.0	DEPTH = 222.2 ± 15.8 km	
	2.2s 69.00nm	5.3mb		1.1s 17.10nm	5.0mb	3.9mb (1 obs.)	
ASS	74.42 311 P	04 46.00 1.9	MAF	80.96 315 eP	05 20.10 0.0	SOUTHERN BOLIVIA (125)	
GRF	74.64 318 ePc	04 45.90 0.7		1.0s 31.00nm	5.3mb	ANT	4.02 240 iPc
	e	04 50.10 14km	TCF	81.19 316 eP	05 21.60 0.3		eS
	e	04 58.30		1.0s 41.00nm	5.4mb	CCH	4.33 6 iPc
CTI	74.78 314 P	04 47.90 1.8	CAF	81.61 314 eP	05 23.80 0.3		e
CRE	74.86 312 P	04 46.90 0.2		1.3s 32.50nm	5.2mb	CNCB	5.04 345 iPc
SFI	74.90 312 P	04 48.10 1.4	LSF	81.65 316 eP	05 23.50 -0.2	LPB	5.34 345 iPc
BUL	74.97 244 iPd	04 47.10 -0.6		1.0s 22.00nm	5.2mb	ZOBO	5.60 345 iPc
	iP	04 51.00 13km	RJF	81.89 315 eP	05 25.40 0.5		S
OGA	75.10 315 eP	04 47.90 -0.2		1.1s 31.75nm	5.3mb	ARE	6.96 318 iPc
FIR	75.34 312 eP	04 45.00 -4.3X	Z	21s 7.50um	6.0msz		iS
	S	14 35.00	LDF	82.16 318 eP	05 26.20 0.0	SIV	7.75 44 iPc
SAL	75.61 314 P	04 51.90 1.2		0.9s 13.10nm	5.0mb	YKA	92.10 340 eP
OSS	75.73 315 ePd	04 51.90 0.2	EKA	82.17 325 P	05 27.00 0.9		0.6s 0.80nm
BDI	75.78 312 P	04 51.50 -0.4		0.7s 10.50nm	5.0mb	S.D. = 1.2 on 7 of 8 obs.	
VDL	76.22 315 ePd	04 54.60 0.1	LPO	82.27 314 eP	05 27.10 0.2	* APR 01, 1991 04h 40m 41.27±0.97s	
LLS	76.48 315 ePd	04 55.90 0.0		0.8s 16.10nm	5.2mb	39.655 N ±21.0km 143.899 E ±18.2km	
BOB	76.49 313 P	04 56.50 0.6	FLN	82.35 318 eP	05 27.30 0.1	DEPTH = 33.0km (normol)	
SLE	76.69 316 ePd	04 56.80 0.0		1.0s 18.00nm	5.1mb	4.2mb (3 obs.)	
VAI	76.79 314 P	04 56.90 -0.5	LFF	82.52 314 eP	05 28.80 0.6	OFF EAST COAST OF HONSHU, JAPAN (229)	
ZLA	76.80 316 ePd	04 57.50 0.0		1.2s 29.75nm	5.3mb	KAKJ	4.53 222 P
FEL	76.99 316 eP	04 58.36 -0.3	GRR	82.69 318 eP	05 29.60 0.6		S
BNS	77.04 320 iPd	04 59.80 1.1	MFF	82.69 316 eP	05 29.40 0.4	NIIJ	4.54 239 eP
Z	15s 9.30um	6.2mszX		1.0s 36.00nm	5.5mb	CHJJ	5.29 229 iPd
WIT	77.07 321 eP	05 04.00 5.3X	LPF	82.90 318 eP	05 30.40 0.3		S
WTS	77.11 321 eP	05 00.00 1.0		1.0s 36.00nm	5.5mb	MAT	5.46 237 (P)
	1.0s 34.00nm	5.4mb	EPF	83.28 313 eP	05 31.40 -0.9		0.8s 9.70nm
PGF	77.16 311 eP	04 59.40 -0.3		1.1s 7.35nm	4.8mb	MTMJ	5.70 239 P
	0.7s 18.75nm	5.3mb	BTH	83.65 313 iPc	05 35.40 1.4	WRA	59.96 190 P
MMK	77.32 314 ePd	05 00.90 0.3		ePKKP	16 48.00		0.7s 2.00nm
CDF	77.39 317 eP	05 00.30 -0.5		e	20 28.00	YKA	60.56 31 eP
	1.1s 29.30nm	5.3mb	IMA	83.79 23 eP	05 35.10 0.6		0.7s 0.30nm
DIX	77.69 315 ePd	05 03.50 0.8		2.1s 126.80nm	5.8mb	S.D. = 0.5 on 7 of 7 obs.	
BSF	77.81 316 eP	05 02.50 -0.6	EROO	83.82 311 eP	05 38.00 3.1X	APR 01, 1991 05h 03m 58.70±0.55s	
	1.2s 23.80nm	5.1mb	TTA	84.16 26 eP	05 37.40 1.1	22.359 N ± 7.9km 106.994 W ± 7.6km	
MEM	77.84 319 P	05 03.60 0.6	ECP	84.94 323 eP	05 44.20 3.9X	DEPTH = 10.0km (geophysicist)	
ENN	77.86 319 eP	05 05.00 1.8	SVW	85.05 28 eP	05 42.60 1.8	4.8mb (18 obs.) 5.5msz (7 obs.)	
	2.0s 84.00nm	5.5mb	ECB	85.12 323 eP	05 46.90 5.7X	NEAR COAST OF CENTRAL MEXICO (52)	
EMS	78.02 315 ePd	05 05.00 0.6	ECHE	85.16 310 eP	05 43.30 1.5	CENTROID, MOMENT TENSOR (HRV)	
SBF	78.06 312 eP	05 04.30 -0.3	ETOR	85.61 311 eP	05 45.00 0.9	Date Used: GDSN	
	1.0s 50.00nm	5.5mb	MBC	85.80 8 eP	05 44.00 -0.2	L.P.B.: 8S, 20C	
HAU	78.07 317 eP	05 04.00 -0.5		1.0s 9.00nm	4.9mb	Centroid Location:	
	1.2s 38.70nm	5.3mb	FBA	86.51 22 eP	05 48.70 0.8	Origin Time 05:03:51.2 2.5	
Z	20s 18.25um	6.4msz		1.5s 67.57nm	5.6mb	Lat 21.63N 0.23 Lon 106.60W 0.16	
DBN	78.09 321 eP	05 12.00 7.6X	GUD	87.19 311 eP	05 53.00 1.1	Dep 15.0 Flx Half-duration 3.0	
	Z 16s 14.50um	6.4mszX	TOL	87.35 311 eP	05 54.00 1.5	Moment Tensor: Scale 10**17 Nm	
	eS	15 00.00		ePP	09 20.00		
	eSP	15 42.00		iS	16 32.00		
LPG	78.25 314 eP	05 05.50 -0.3		iPS	17 35.00		
	0.9s 27.85nm	5.3mb		ePPS	18 34.00		

Mrr= 0.43 0.19	Mtt=-1.36 0.25	PNT	28.70 343 eP	09 59.00 1.0	CMB	78.40 43 eP	16 46.10 1.3	
Mff= 0.93 0.22	Mrt= 3.11 0.70	FFC	32.54 5 ePc	10 29.80 -2.0	TNP	80.48 44 eP	16 57.30 1.4	
Mrf= 0.39 0.51	Mtf= 0.06 0.22	RSNY	1.2s 34.00nm	5.2mb	SLKM	82.60 13 eP	17 06.10 0.1	
Principal Axes:		Z 18s	4.90um	5.3msz	PMR	83.81 13 eP	17 12.50 0.5	
T Vol= 2.83	Pig=52 Azm=343	SIT	40.36 336 P	11 46.00 8.0X	BALM	84.97 16 eP	17 18.00 0.1	
N 0.87	7 82	Z 19s	14.71um	5.9msz	PNT	85.51 34 eP	17 22.00 1.3	
P -3.71	37 177	YKA	40.45 355 eP	11 36.00 -2.7	FBA	87.03 12 iP	17 27.50 -0.1	
Best Double Couple: Mo=3.3*10**17		SCH	1.5s 8.30nm	4.2mb	INK	93.06 15 eP	17 55.00 -0.4	
NP1: Strike=303 Dip=10 Slip= 132		TOA	44.14 32 eP	12 10.00 1.0	YKA	95.32 25 eP	18 05.30 -0.5	
NP2: 81 82 83		FRB	47.83 336 P	12 34.70 -3.6X	NB2	137.85 354 PKP	23 55.60 -8.5X	
MZX	0.99 32 iP	04 10.50 -6.9X	1.0s 33.00nm	5.4mb	HFS	138.43 351 ePKP	23 56.30 -8.7X	
CGX	4.23 128 eP	05 05.00 0.2	48.61 22 eP	12 43.00 -1.1	EKA	143.81 5 PKP	24 13.00 -1.6	
MRX	6.03 115 eP	05 31.50 1.4	48.67 335 P	12 43.00 -1.6	KRA	146.27 339 ePKP	24 19.80 0.9	
VNM	6.80 58 (P)	06 04.00 23.1X	1.0s 5.00nm	4.5mb	KSP	146.65 344 iPKP	24 23.00 3.5X	
CRX	7.44 112 eP	05 57.50 7.2X	Z 18s 7.14um	5.7msz	VRI	146.74 328 ePKPc	24 25.00 5.2X	
UNM	7.90 111 (P)	06 06.00 9.3X	48.77 347 eP	12 46.00 0.7	SPC	146.90 338 ePKP	24 20.60 0.4	
III	8.09 118 eP	06 03.00 3.7X	FBA	50.13 339 P	12 54.10 -1.8	CLL	146.98 348 iPKPd	24 23.40 3.4X
PPM	8.49 111 iP	06 09.50 4.4X	0.9s 5.21nm	4.5mb	CVO	147.04 329 ePKPc	24 25.50 5.2X	
ACX	8.66 128 eP	05 57.50 -9.5X	SDN	51.32 324 P	13 12.00 7.0X	HRI	147.13 302 ePKP	24 25.00 4.0X
IIIT	8.78 111 eP	06 13.50 4.5X	Z 18s 11.90um	6.0msz	BRG	147.20 346 iPKP	24 25.10 4.7X	
IISM	9.61 109 eP	06 24.00 3.9X	ARE	51.93 135 e(P)	13 10.00 -0.5	MLR	147.39 328 ePKPc	24 27.00 6.0X
LVVM	10.19 103 (P)	06 23.50 -4.5X	ZOBO	54.06 132 P	13 25.00 -1.5	JVI	147.81 300 ePKP	24 27.00 4.9X
OXX	11.00 117 eP	06 41.00 1.5	LPB	54.26 132 P	13 27.00 -0.8	PRU	147.88 345 ePKP	24 27.00 5.5X
ALO	12.55 2 eP	07 00.00 -0.3	Z 18s 5.50um	5.7msz	MOX	147.88 349 ePKP	24 27.00 5.5X	
	2.0s 407.35nm	6.3mb X	LR	16 56.00	COZ	148.29 330 ePKPc	24 30.00 7.5X	
ANMO	12.55 2 P	07 01.60 1.3	MBC	54.29 356 eP	13 26.00 -0.8	ENN	148.49 356 ePKP	24 27.50 5.1X
GLA	12.71 329 eP	07 01.00 -1.2	0.6s 5.00nm	4.7mb	MEM	148.65 355 PKP	24 27.00 5.0X	
BAR	13.39 322 eP	07 13.00 1.7	CNCB	54.53 132 P	13 29.00 -1.0	RMN	148.76 297 ePKP	24 29.00 5.4X
	e	09 35.00	ANT	57.98 140 e(P)	13 56.00 2.1	ZST	148.80 341 iPKP	24 28.70 5.7X
PLM	13.99 324 eP	07 17.00 -2.4	SIV	58.95 126 P	13 58.20 -2.7X	GRF	148.87 349 ePKPc	24 29.90 6.8X
TPC	14.15 328 eP	07 09.00 -12.4X	PPD	69.93 125 eP	15 15.90 3.5X	KHC	148.91 346 PKP	24 29.00 5.8X
RVR	14.76 324 eP	07 32.00 2.8X	NB2	83.26 26 P	16 25.60 -1.0	ABH	149.23 353 ePKP	24 29.43 5.8X
MWC	15.30 323 eP	07 41.00 4.4X	1.2s 12.40nm	5.0mb	BHG	150.40 345 iPKPc	24 32.90 7.5X	
PAS	15.31 323 eP	07 39.00 2.5	SOD	84.17 16 iP	16 37.20 6.1X	FLN	150.54 4 ePKP	24 32.50 6.9X
GSC	15.48 329 eP	07 39.00 0.2	YAK	84.62 337 eP	16 31.50 -1.9	CDF	150.71 353 ePKP	24 33.10 7.1X
SBP	15.53 325 eP	07 41.00 1.7	APO	84.63 25 eP	16 34.50 1.0	LDF	150.73 3 ePKP	24 32.70 6.8X
CLC	16.28 328 eP	07 48.00 -1.1	0.9s 8.50nm	5.0mb	KBA	150.88 344 iPKPc	24 32.80 6.4X	
ISA	16.61 325 eP	07 55.00 1.7	NUR	88.61 22 eP	16 45.00 -8.0X		0.5s 12.60nm	24 36.60
SYF	16.63 320 eP	07 55.00 1.4	WRA	123.09 260 PKP	22 54.00 -3.8X		i	24 44.20
TUL	16.66 33 ePc	07 49.70 -4.1X	0.8s 1.80nm			GRR	150.89 4 ePKP	24 33.40 7.3X
	1.8s 161.90nm	4.9mb	TRT	139.20 285 iPKPc	23 28.00 -0.6	PTJ	151.20 340 ePKP	24 33.40 6.6X
	eLg	12 48.20	S.D. = 1.4 on 60 of 85 obs.			HAU	151.20 354 ePKP	24 34.00 7.3X
BIX	16.68 33 iP	07 55.00 1.5	APR 01, 1991 05h 05m 30.50± 0.54s			LPF	151.23 5 ePKP	24 34.10 7.5X
MSU	16.70 346 P	07 55.00 0.4	19.323 S ± 8.8km 177.681 W ± 5.1km			BSF	151.33 354 ePKP	24 34.30 7.3X
GOL	17.34 4 P	08 04.00 1.3	DEPTH = 448.1 ± 6.2 km			LOR	152.10 358 ePKP	24 36.10 8.1X
	1.8s 115.33nm	4.7mb	4.6mb (13 obs.)			SSF	152.32 358 ePKP	24 36.80 8.6X
GLD	17.40 5 P	08 04.00 0.6	FIJI ISLANDS REGION (181)			LBF	152.38 358 ePKP	24 36.80 8.4X
	1.8s 194.87nm	4.9mb				AVF	152.59 358 ePKP	24 37.00 8.4X
TNP	17.97 333 P	08 09.10 -1.3	SVA	3.85 288 ePc	06 45.20 0.3	MFF	152.72 4 ePKP	24 37.50 8.7X
PRI	18.16 322 eP	08 14.80 2.1	VUN	3.88 289 iPc	06 44.70 -0.5	BGF	152.83 359 ePKP	24 37.90 8.9X
FRI	18.27 326 eP	08 14.70 0.8	SGE	4.51 292 iPc	06 51.60 0.5	TCF	153.11 0 ePKP	24 38.30 8.9X
BONR	18.34 330 P	08 15.00 -0.1	DZM	15.10 257 iPc	08 44.30 0.1	LSF	153.14 1 ePKP	24 38.20 8.8X
DUG	18.45 346 P	08 16.40 0.0	THZ	23.76 198 eP	10 05.90 -1.5	MAF	153.17 360 ePKP	24 38.80 9.3X
LLA	18.66 323 eP	08 18.70 0.0	PAE	26.69 91 eP	10 34.00 0.3	RJF	154.08 1 ePKP	24 41.10 10.4X
PRS	18.70 321 ePd	08 16.20 -3.0X	0.8s 20.00nm	4.6mb	CAF	154.47 0 ePKP	24 41.60 10.3X	
KVN	19.16 333 P	08 22.50 -2.5	PPT	26.71 91 eP	10 34.00 0.1			
CMB	19.41 327 eP	08 27.90 -0.1	0.8s 40.00nm	4.9mb				
MHC	19.57 323 eP	08 31.70 1.8	PPN	26.85 91 eP	10 35.00 -0.1			
BKS	20.28 323 iPc	08 38.40 1.2	0.8s 15.00nm	4.5mb				
	1.4s 123.00nm	5.1mb	BRS	28.24 248 iPc	10 48.00 0.7			
	eS	12 30.00	PMO	28.76 86 iP	10 51.30 -0.6			
	eLO	13 08.00	0.8s 20.00nm	4.6mb				
	eLR	14 07.00	TPT	29.03 86 iP	10 53.70 -0.5			
BRK	20.29 323 eP	08 39.80 2.5	0.8s 25.00nm	4.7mb				
BW06	20.47 355 P	08 37.00 -2.5	RUV	29.20 87 iP	10 55.20 -0.6			
	0.8s 13.81nm	4.4mb	0.8s 25.00nm	4.7mb				
FVM	21.11 39 P	08 46.00 0.2	COO	29.69 242 eP	11 01.50 1.5			
ORV	21.13 328 eP	08 45.50 -0.5	RMQ	31.66 251 iPd	11 17.00 0.0			
ELC	21.37 42 P	08 48.20 -0.2	CMS	34.96 242 eP	11 46.00 1.3			
MIN	21.79 329 eP	08 53.80 1.0	WB2	45.06 261 iPc	13 06.10 -0.5			
RSSD	21.84 6 P	08 52.30 -1.1	0.4s 11.80nm	4.7mb				
	1.9s 102.88nm	4.9mb	eScP	17 49.60				
Z	20s 6.55um	5.0msz	iS	19 09.70				
WDC	22.43 328 eP	08 58.40 -0.6	WRA	45.07 261 P	13 06.00 -0.7			
RSCP	22.86 50 P	09 03.10 -0.3	0.3s 4.50nm	4.4mb				
	0.7s 40.48nm	5.0mb	ASPA	45.09 256 iPc	13 07.10 0.2			
Z	19s 7.78um	5.2msz	0.6s 19.60nm	4.7mb				
LRM	23.83 351 eP	09 02.40 -10.5X	iS	19 12.10				
GBTN	23.86 51 P	09 12.90 -0.2	GUA	49.23 309 eP	13 37.40 -1.0			
TKL	24.17 52 P	09 16.70 0.6	0.6s 85.33nm	5.3mb				
NEW	27.09 345 P	09 42.10 -1.3	PJG	49.29 309 eP	13 36.90 -2.0			
	1.1s 15.12nm	4.6mb	FORR	50.01 246 iPc	13 43.90 -0.2			
BLA	27.28 51 P	09 46.80 1.5	WARB	51.48 252 eP	13 55.00 0.0			
	0.7s 4.44nm	4.3mb	MBL	58.32 257 iPc	14 43.20 -0.2			
SES	28.16 355 eP	09 51.00 -2.1	MAT	69.45 323 (P)	15 54.00 -0.1			
	1.3s 78.00nm	5.3mb						

01d 05h

S.D. = 0.9 on 36 of 77 obs.

APR 01, 1991 05h 25m 27.09±0.09s
 4.919 S ± 2.3km 152.018 E ± 2.7km
 DEPTH = 89.7km (geophysicist)
 6.0mb (71 obs.)

NEW BRITAIN REGION (192)

Felt (IV) at Rabaul. Depth from
 broadband displacement
 seismograms.

FAULT PLANE SOLUTION: P-Waves

NP1: Strike=20 Dip=80 Slip=90

NP2: 200 10 90

Principal Axes:

T P1g=55 Azm=290
 P 35 110

Comment: The focal mechanism is
 poorly controlled and
 corresponds to reverse
 faulting. The preferred fault
 plane is NP2.

RADIATED ENERGY

No. of sta: 8 Focal mech. C
 Energy 2.4±0.6*10**12 Nm

MOMENT TENSOR SOLUTION

Dep. 94 No. of sta: 6

Moment Tensor: Scale 10**17 Nm

Mrr=-3.72 Mtt=-0.10

Mff=-3.62 Mrt=0.16

Mrf=3.91 Mtf=-0.54

Principal axes:

T Val=5.41 P1g=67 Azm=268
 N -0.05 3 5
 P -5.37 23 97

Best Double Couple: Mo=5.4*10**17

NP1: Strike=193 Dip=22 Slip=98

NP2: 4 68 87

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 18S, 47C

Centroid Location:

Origin Time 05:25:33.7 0.4

Lat 5.08S 0.05 Lon 152.45E 0.04

Dep 61.8 BDY Half-duration 3.0

Moment Tensor: Scale 10**17 Nm

Mrr=2.66 0.12 Mtt=0.38 0.24

Mff=-3.04 0.25 Mrt=2.14 0.16

Mrf=3.74 0.19 Mtf=-1.36 0.16

Principal Axes:

T Val=4.94 P1g=62 Azm=311
 N 0.75 7 207
 P -5.69 27 113

Best Double Couple: Mo=5.3*10**17

NP1: Strike=185 Dip=19 Slip=67

NP2: 29 73 98

RAB	0.74	12	iPd-	25	46.00	1.8
YYYY	6.17	257	eP	27	03.00	5.5X
PMG	6.57	227	iPd	27	04.00	1.1
MNDI	8.41	261	eP	27	45.00	16.6X
SVO	8.81	119	eP	27	31.00	-2.6
			eS	29	04.00	
HNR	9.05	120	iPd	27	34.90	-2.1
			eS	29	10.00	
CTA	16.09	200	iPd	29	11.00	1.6
	1.1s	187.34nm			5.2mb	
			iS	32	12.00	
			iScS	41	09.50	
GUA	19.65	339	iPc-	29	52.70	1.3
	1.3s	3138.46nm			6.5mb	
			pP	30	14.00	121kmX
QIS	19.68	217	iPc	29	52.00	0.3
	0.6s	142.00nm			5.5mb	
			i	30	10.00	
PJG	19.71	339	iPc	29	53.30	1.2
BKM	20.31	130	iPc	29	58.30	0.0
PVC	20.41	130	iPd	29	58.60	-0.6
RMO	21.67	188	iPd	30	11.50	-0.5
	1.0s	230.00nm			5.5mb	
			i	30	41.00	
			i	30	48.00	
DZM	22.04	142	iPd	30	15.90	0.2
			iS	34	16.40	
			ScP	37	44.00	
MTN	22.07	248	eP	30	18.00	2.1
BRS	22.36	178	iPc	30	18.90	0.2
WB2	22.78	228	iPd	30	24.00	1.2

	0.8 s	608.80nm		6.0mb		
			ipP	30	44.20	93kmX
			iS	34	27.80	
WRA	22.79	228	P	30	23.60	0.7
QLP	22.79	198	iPc	30	26.00	3.1X
			i	30	47.20	
			i	37	47.00	
KNA	25.25	243	iPc	30	47.10	0.6
	0.6 s	585.00nm			6.2mb	
COO	25.52	180	iPc	30	50.00	1.0
ASPA	25.54	221	iPc	30	49.20	-0.1
	1.2 s	341.00nm			5.7mb	
			ipP	31	11.00	100kmX
			isP	31	21.10	
			eS	35	14.20	
			iScS	41	41.50	
			iScS	42	20.60	
CMS	27.06	192	iPc	31	02.80	-0.2
			i	31	23.40	
SGE	28.30	118	eP	31	14.20	-0.3
DAV	28.96	294	eP	31	17.00	-3.3X
SVA	28.98	119	eP	31	19.10	-1.4
CNB	30.35	184	iPd	31	33.00	0.5
	1.0 s	79.00nm			5.4mb	
WARB	32.19	226	iPc	31	48.80	0.1
	0.4 s	50.00nm			5.6mb	
ADE	32.34	201	eP	31	50.00	0.1
TOO	33.04	190	iPc	31	56.60	0.6
BFD	33.26	194	eP	31	58.00	0.2
FORR	34.23	218	iPc	32	05.40	-0.9
TSM	35.10	284	ePc	32	17.00	3.0X
MBL	35.15	240	iPc	32	14.10	-0.2
	0.5 s	48.00nm			5.7mb	
QCP	36.31	303	eP	32	29.10	5.0X
AFI	36.77	107	ePd	32	26.11	-1.9
BAG	37.63	305	ePc	32	34.00	-1.4
	1.2 s	531.25nm			6.3mb	
			e	32	58.40	
TAU	38.06	186	iPd	32	39.80	1.3
			i	34	53.00	
MEKA	38.56	232	iPc	32	42.90	-0.1
	0.4 s	63.00nm			5.9mb	
COOL	38.86	225	eP	32	44.40	-0.9
	0.4 s	27.00nm			5.5mb	
TRT	39.23	264	iPc	32	43.00	-5.6X
	0.6 s	82.50nm			5.8mb	
CNZ	40.23	151	P	32	58.00	1.3
NGZ	40.24	151	P	32	57.00	1.0
			e	33	24.70	
PUZ	40.74	148	P	33	00.90	0.1
			e	33	26.70	
			e	33	33.50	
NOZ	41.03	148	P	33	03.30	0.3
			e	33	19.80	
THZ	41.15	156	P	33	03.90	-0.2
			e	33	34.30	
KIW	41.26	153	P	33	05.00	0.0
TCW	41.27	154	P	33	05.50	0.5
MNG	41.33	153	P	33	05.20	-0.3
			e	33	28.30	
MRW	41.47	154	eP	33	06.40	-0.2
CAW	41.53	153	P	33	06.80	-0.4
WEL	41.54	154	P	33	06.00	-1.2
			S	39	16.00	
WDW	41.63	154	eP	33	07.10	-0.8
KLB	41.66	226	iPc	33	07.40	-0.9
	0.4 s	48.00nm			5.7mb	
CCW	41.69	155	eP	33	08.50	0.1
PGZ	41.69	152	P	33	07.90	-0.5
MTW	41.77	153	P	33	08.50	-0.6
			e	33	35.20	
LTZ	41.77	158	P	33	09.30	0.1
			e	33	31.90	
			e	33	40.50	
			e	33	42.60	
MOW	41.87	154	P	33	09.50	-0.4
WKYJ	41.90	339	P	33	05.40	-5.0X
BAL	41.91	228	iPc	33	09.70	-0.8
	0.7 s	156.00nm			5.9mb	
BLW	41.92	153	P	33	10.10	-0.3
KHZ	41.96	156	P	33	09.30	-1.3
			e	33	38.80	
TKSJ	42.26	338	P	33	11.90	-1.3
KAKJ	42.39	346	P	33	13.90	-0.3
CHJJ	42.54	344	eP	33	14.50	-1.0
NWAO	42.75	225	eP	33	16.00	-1.3
TSRJ	42.97	341	eP	33	22.20	3.3X

MUN	42.98	227	iPc	33	18.60	-0.5
	1.0s	370.00nm			6.2mb	
MAT	43.22	344	(P)	33	18.00	-3.0X
	1.9s	157.89nm			5.5mb	
SHK	43.27	336	eP	33	20.80	-0.6
MTMJ	43.37	343	P	33	20.70	-1.6
RKG	43.54	224	iPd	33	26.30	2.7
	0.4s	67.00nm			5.8mb	
YONJ	43.55	338	P	33	23.30	-0.3
SHNJ	43.57	335	P	33	24.20	0.4
NIIJ	43.66	345	eP	33	23.20	-1.3
OZH	44.01	314	iPc	33	29.00	1.5
	0.8s	280.00nm			6.1mb	
Z	14s	10.90um			5.9MszX	
N	12s	12.90um				
YAMJ	44.29	346	eP	33	28.40	-1.3
OFUJ	44.81	349	P	33	32.70	-1.1
HKC	45.85	308	iP	33	45.00	2.8
SSE	46.36	323	iPc	33	45.00	-1.1
	1.5s	330.00nm			6.0mb	
Z	20s	0.90um			4.7MszX	
E	12s	0.80um				
		PcP	35	19.50		
GZH	46.91	308	iPd	33	53.20	2.6
QIZ	47.86	301	iPd	34	00.30	2.2
NJ2	48.45	322	Pc	34	03.40	1.0
	1.6s	300.00nm			6.0mb	
Z	24s	1.30um			4.8MszX	
		PP	34	25.00		
		SP	34	36.00		
KGM	49.14	277	ePd	34	09.00	0.9
	1.1s	1297.00nm			6.8mb	
WHN	50.40	317	Pc	34	19.00	1.6
	1.5s	400.00nm			6.2mb	
		PP	34	41.00		
IPM	51.80	280	ePd	34	26.50	-1.8
	1.0s	496.50nm			6.5mb	
DL2	51.88	330	Pd	34	30.00	1.5
	1.2s	400.00nm			6.3mb	
Z	34s	2.10um			4.9MszX	
TIA	52.35	324	Pc	34	31.50	-0.6
	1.8s	400.00nm			6.1mb	
SNG	52.68	283	eP	34	34.00	-0.9
	1.3s	453.85nm			6.3mb	
		e	35	44.20		
		e	47	44.20		
		e	48	15.80		
SNY	53.26	334	eP	34	35.40	-3.2X
	1.2s	58.00nm			5.5mb	
Z	20s	2.00um			5.2Msz	
		PP	35	00.00		
MDJ	53.26	340	eP	34	37.20	-1.4
	1.5s	120.00nm			5.7mb	
Z	12s	4.98um			5.8MszX	
N	12s	9.07um				
E	12s	6.50um				
GYA	53.85	308	Pc	34	44.60	1.2
	1.8s	500.00nm			6.2mb	
CN2	54.09	336	Pc	34	43.60	-1.1
	1.3s	100.00nm			5.7mb	
Z	15s	13.00um			6.1MszX	
N	12s	5.70um				
E	12s	1.70um				
		ePP	35	05.00		
NST	55.28	293	eP	34	57.00	3.2X
BJI	55.56	327	ePc	34	53.90	-1.6
	2.0s	440.00nm			6.1mb	
Z	26s	2.11um			5.1MszX	
		epPc	35	16.42	91kmX	
		esPd	35	26.35		
TIY	56.14	323	Pc	34	59.50	-0.3
	1.5s	170.00nm			5.9mb	
Z	40s	2.40um			5.0MszX	
XAN	56.17	317	P	34	59.00	-1.1
KMI	56.41	304	iPc	35	03.09	0.9
	2.0s	520.00nm			6.2mb	
		epPc	35	26.10	93kmX	
		esPd	35	33.55		
		ePcP	35	57.66		
		ePP	37	06.36		
KHT	56.45	291	iPc	35	03.00	0.8
BDT	56.79	294	eP	35	04.00	-0.6
CD2	58.22	311	iPc	35	14.40	-0.2
	1.0s	300.00nm			6.3mb	
AFR	58.24	107	iP	35	15.50	0.7
	1.3s	260.00nm			6.2mb	
PPT	58.43	108	iP	35	17.10	0.9

	1.3s	150.00nm		5.9mb				pP	38	28.00	59kmX		0.9s	14.60nm					
PAE	58.44	108 iP	35	17.00	0.8	PCC	89.48	52 eP	38	18.50	2.9X		NUR	111.91	335 ePKP	43	52.40	-0.6	
	1.3s	150.00nm		5.9mb		BRK	89.61	52 eP	38	17.20	1.0			0.8s	20.10nm				
PPN	58.57	107 iP	35	18.00	0.9	BKS	89.63	52 iPd	38	17.30	0.9		FRB	114.39	19 ePKP	43	57.00	-0.7	
	1.3s	170.00nm		6.0mb			1.3s	138.00nm		6.0mb		HFS	116.50	338 ePKP	44	00.30	-1.5		
		iP	35	38.80	82kmX			e		06	41.00			0.3s	3.50nm				
HHC	58.69	325 eP	35	17.30	-0.4	WDC	89.71	49 iPc	38	17.30	0.6		NB2	116.76	340 PKP	44	01.50	-0.9	
	1.3s	270.00nm		6.2mb		GCC	89.73	53 eP	38	19.00	2.2			1.0s	31.90nm				
	12s	0.70um				MHC	90.04	53 ePc	38	19.00	0.5		VR1	117.59	320 iPKPd	44	05.50	1.1	
TVO	58.76	108 iP	35	19.50	1.0	PGC	90.04	41 eP	38	19.00	1.0		CMP	118.92	320 ePKPd	44	12.00	5.1X	
	1.3s	235.00nm		6.1mb		PRS	90.15	54 eP	38	19.80	1.0		RSCP	118.99	52 ePKP	44	06.00	-1.4	
		iP	35	39.80	80kmX	ORV	90.39	51 eP	38	20.00	0.2				ePKP	44	30.50		
TBI	59.22	114 iP	35	22.90	1.4	MIN	90.39	50 eP	38	19.50	-0.5		BSD	119.28	333 iPKPd	44	07.50	0.3	
	1.3s	370.00nm		6.4mb		LLA	90.53	53 eP	38	21.00	0.5			1.1s	75.00nm				
BTO	59.43	324 iPc	35	23.00	0.2	PRI	90.70	54 eP	38	22.80	1.3		SPC	119.98	326 iPKP	44	09.40	0.3	
		PP	35	44.50		LON	90.92	43 ePc	38	21.30	-0.9		MUD	120.78	337 ePKP	44	09.80	-0.2	
PMO	59.86	104 iP	35	26.70	0.7	CMB	91.10	52 ePc	38	22.81	-0.4			1.1s	14.00nm				
	1.3s	235.00nm		6.2mb		SYP	91.11	56 eP	38	25.00	1.6		PSZ	120.83	324 iPKP	44	10.10	-0.5	
		iP	35	47.30	81kmX	FR1	91.55	53 ePc	38	25.70	0.5		BZS	120.93	321 ePKP	44	09.50	-1.2	
TPT	60.13	104 iP	35	28.40	0.6	ISA	92.43	55 eP	38	30.00	0.6				e	56	21.00		
	1.3s	115.00nm		5.8mb		PAS	92.57	56 ePc	38	31.09	1.1		KSP	121.21	329 iPKPc	44	05.00	-6.1X	
		iP	35	49.00	81kmX			e	38	53.00			SCH	121.26	25 ePKP	44	11.00	-0.1	
VAH	60.13	105 iP	35	28.40	0.6	PNT	92.63	41 ePc	38	30.00	0.1		BUD	121.56	324 ePKP	44	11.50	-0.3	
	1.3s	105.00nm		5.8mb		MWC	92.67	56 eP	38	31.00	0.3		VAY	122.20	317 iPKP	44	14.50	1.3	
		iP	35	49.00	81kmX			e	38	54.00			ZST	122.28	326 ePKP	44	13.50	0.3	
RUV	60.37	105 iP	35	30.00	0.6	SBB	92.89	56 eP	38	32.00	0.4				e	45	51.40		
	1.3s	130.00nm		5.9mb				e	38	55.00			UZD	122.28	324 e(PKP)	44	13.00	-0.2	
		iP	35	50.60	80kmX	CLC	93.16	54 eP	38	33.00	0.3		BRG	122.38	330 iPKPc	44	13.50	0.2	
LZH	60.77	316 iPc	35	32.81	0.7			e	38	55.00				1.6s	120.00nm				
	2.0s	610.00nm		6.3mb		RVR	93.22	56 eP	38	34.00	1.0				i	44	40.00		
	16s	0.97um		5.0MsZ				e	38	56.00			BLA	122.43	49 ePKPc	44	13.70	-0.2	
	10s	0.43um				PEC	93.39	56 P	38	34.40	0.6				epPKP	44	39.40		
		epPc	36	55.66	91kmX			pP	38	55.50	76kmX		CLL	122.57	331 iPKPc	44	13.70	0.1	
		esPd	36	05.26		TNP	93.60	52 iPd	38	35.40	0.5			1.3s	68.00nm				
		ePcP	36	14.36			1.0s	50.00nm		5.9mb					i	44	42.70		
HIA	60.82	336 ePc	35	31.24	-0.9			iP	38	57.70	81kmX		PRU	122.62	329 PKPc	44	13.90	0.1	
GTA	65.22	318 iPc	36	01.80	0.4			e	39	13.90				1.5s	40.20nm				
	1.0s	120.00nm		5.8mb		PLM	93.61	57 eP	38	36.00	1.0			Z	16s	1.80um		5.8MsZ	
		SP	36	33.00				e	38	58.00				N	16s	0.50um			
LSA	67.66	305 Pc	36	18.60	1.1	BAR	93.73	58 eP	38	38.00	2.6			E	14s	1.00um			
YAK	68.92	349 iP	36	22.80	-1.2	GSC	93.77	55 eP	38	36.00	0.4				e	44	44.00		
		i	36	45.00		NEW	94.21	42 iPc	38	36.90	-0.4				e	45	46.50		
							0.9s	70.18nm		6.1mb			SKO	122.69	318 ePKP	44	09.50	-4.7X	
GUN	71.52	301 P	36	42.00	1.0			epP	38	58.80	80kmX			1.2s	206.00nm				
SDN	71.65	26 eP	36	39.70	-1.0	TPC	94.33	56 eP	38	39.00	0.9				i	44	14.20		
PKI	71.82	301 P	36	42.80	0.0			eP	38	39.00	0.9		RSNY	123.33	38 ePKP	44	14.80	-0.6	
KKN	71.99	301 P	36	44.20	0.5	MBC	94.41	14 eP	38	37.00	-0.6				epPKP	44	39.40		
DMN	72.09	301 P	36	44.60	0.3		1.3s	97.00nm		6.1mb			OHR	123.50	317 ePKP	44	14.50	-1.4	
GKN	72.60	301 P	36	47.80	0.6	MAIO	94.91	306 iPc	38	40.70	-0.1			1.2s	255.00nm				
WMO	75.30	318 iPc	37	02.90	0.5	GLA	95.30	57 eP	38	44.00	1.4		KHC	123.64	328 iPKPc	44	15.70	-0.2	
	1.5s	200.00nm		5.8mb				e	39	07.00				1.3s	54.00nm				
		epP	37	25.08	84kmX	YKA	95.89	28 eP	38	43.40	-1.2			Z	18s	1.10um		5.6MsZ	
KOD	75.75	282 iPc	37	06.00	0.3		0.8s	18.90nm		5.7mb				N	16s	1.00um			
	1.0s	144.00nm		5.8mb		EDM	96.69	37 iPc	38	49.00	0.5			E	16s	0.90um			
HYB	75.79	289 iPc	37	04.80	-0.8	LRM	97.36	45 eP	38	52.00	0.1				e	44	47.00		
	1.0s	190.00nm		5.9mb		SES	98.19	40 eP	38	54.80	-0.5				i	44	16.00	0.1	
			37	07.00	0.5		1.4s	339.00nm		6.7mb			MOX	123.67	331 iPKPc	44	16.00	0.1	
ANM	76.12	18 eP	37	07.00	0.5			pP	39	17.00	81kmX			1.4s	75.00nm				
SVW	77.23	23 iPc	37	13.60	0.8			iP	39	01.00	-0.7		HOF	123.76	330 ePKP	44	15.90	-0.2	
TTA	78.16	22 iPc	37	18.30	0.4	BW06	99.51	48 iP	39	01.00	-0.7			1.3s	38.00nm				
PMR	80.12	25 iPc	37	28.10	-0.2		0.9s	28.25nm		5.9mb			WET	123.99	329 iPKPc	44	16.60	0.0	
	1.4s	613.70nm		6.3mb				epP	39	23.00	80kmX			1.3s	125.00nm				
	Z	20s		6.2MsZ				i	43	10.00					i	44	16.60	-0.5	
MID	80.29	27 eP	37	30.40	1.1	PV09	99.97	52 ePc	39	04.30	0.3		PTJ	124.19	324 iPKPc	44	16.60	-0.5	
POO	80.39	290 iPc	37	30.40	-0.3			epP	39	26.70	82kmX		ZAG	124.22	324 ePKP	44	16.50	-0.5	
	1.2s	109.38nm		5.6mb		ALO	102.25	55 ePdiff39	14.80	0.6		CBN	124.29	46 ePKP	44	18.00	0.6		
IMA	80.83	20 iPc	37	32.60	0.4		1.0s	5.75nm		5.3mb					e	44	42.00		
	1.1s	140.70nm		5.7mb		ANMO	102.25	55 ePdiff39	15.42	1.3		WIT	124.42	335 iPKPd	44	18.20	1.0		
BOM	81.41	290 eP	37	33.20	-2.8	GOL	102.83	51 ePdiff39	16.80	0.1		GRF	124.48	330 iPKPc	44	17.70	0.2		
TOA	81.59	25 iPc	37	37.10	0.9			epP	39	39.20		PEL	124.61	136 iPKPd	44	18.50	0.2		
FBA	82.28	22 iPc	37	38.90	-0.8			iPP	43	29.60		BHG	124.86	327 iPKPc	44	17.90	-0.3		
	0.8s	186.21nm		6.0mb				epPP	43	52.90				1.3s	100.00nm				
KSH	82.40	311 iPc	37	43.00	2.0	GLD	102.94	50 ePdiff39	18.20	1.1		WTS	124.95	335 iPKPc	44	18.50	0.3		
BALM	82.78	27 P	37	42.20	-0.2		1.2s	30.30nm		6.0mb				1.0s	102.00nm				
BRW	83.07	15 ePc	37	44.10	0.5			epP	39	40.50		KBA	125.00	327 iPKPc	44	17.50	-1.2		
YKU	83.41	28 e(P)	37	47.80	2.3			ePP	43	31.80				1.4s	80.10nm				
SIT	84.78	32 iPc	37	54.00	1.6			epPP	43	53.70					i	44	26.90		
	1.1s	234.10nm		6.1mb		FFC	103.22	35 iPdiff39	17.90	0.2				i	44	49.00			
	Z	20s		6.4MsZ			1.0s	32.00nm		6.1mb					i	46	08.30		
SPA	85.11	180 iPc	37	54.70	0.5	RSSD	103.42	46 ePdiff39	18.60	-0.6		FUR	125.43	329 ePKP	44	19.50	0.1		
	1.0s	60.00nm		5.5mb			1.0s	27.11nm		6.1mb				1.2s	113.00nm				
	Z	19s		5.9MsZ				iP	39	42.30			TNS	125.47	332 ePKPc	44	19.60	0.2	
		i	39	15.60				epP	43	33.30			BNS	125.53	333 iPKPc	44	19.60	0.2	
MAW	85.16	203 iPd	37	55.40	1.2			epPP	43	55.20				0.8s	76.00nm				
	1.0s	125.00nm		5.8mb		OBN	108.39	327 ePKP	44	06.00	19.5X		TRI	125.57	3				

01d 05h

	1.0s	122.00nm					
Z	20s	7.09um		6.3msz			
ENN	126.22	334 iPKPc	44	20.90	0.1		
	1.0s	140.00nm					
		e	44	29.50			
MEM	126.30	334 iPKPc	44	21.05	0.2		
OGA	126.38	328 iPKPc	44	21.70	0.2		
	1.2s	62.00nm					
CTI	126.55	326 PKP	44	21.60	-0.1		
GWF	126.71	331 PKP	44	21.81	0.0		
WLF	126.92	333 PKP	44	23.20	1.1		
OSS	126.97	328 ePKPd	44	22.80	0.2		
SLE	127.11	330 ePKPd	44	22.30	-0.3		
SNF	127.12	335 iPKPc	44	22.65	0.2		
WLS	127.23	331 PKP	44	22.29	-0.6		
CDF	127.27	331 PKP	44	22.51	-0.5		
FEL	127.28	330 ePKP	44	22.08	-1.0		
DOU	127.29	334 iPKPc	44	23.00	0.2		
	1.1s	188.50nm					
ARV	127.32	323 PKP	44	23.60	0.4		
ZLA	127.36	330 ePKPd	44	22.90	-0.2		
DUI	127.40	320 PKP	44	23.60	0.2		
LLS	127.45	329 ePKPd	44	23.50	0.0		
VDL	127.45	328 ePKPd	44	23.80	0.2		
ECH	127.46	331 PKP	44	22.41	-0.9		
SFI	127.72	324 PKP	44	24.90	1.1		
MOF	127.73	331 PKP	44	23.56	-0.3		
ASS	127.73	323 PKP	44	23.80	-0.2		
SDI	127.78	321 PKP	44	23.70	-0.4		
BBS	127.81	330 PKP	44	23.72	-0.3		
AZI	127.86	321 PKP	44	24.20	0.0		
BSF	127.91	331 ePKP	44	23.10	-1.1		
	1.3s	245.50nm					
HAU	128.00	331 ePKP	44	23.20	-1.1		
	1.3s	151.65nm					
VITF	128.02	332 PKP	44	24.21	0.0		
FIR	128.15	324 ePKP	44	22.00	-2.6X		
LOMF	128.22	330 PKP	44	24.46	-0.4		
VAI	128.22	328 PKP	44	24.20	-0.5		
BDI	128.36	325 PKP	44	24.20	-1.0		
MMK	128.53	328 ePKPd	44	26.30	0.6		
BOB	128.56	326 PKP	44	25.90	0.3		
UPA	128.70	82 ePKPc	44	26.00	-0.6		
DIX	128.79	329 ePKPd	44	26.70	0.5		
ORX	128.80	328 PKP	44	25.00	-1.0		
EMS	129.05	329 ePKPd	44	26.90	0.3		
PCP	129.20	327 PKP	44	26.13	-0.6		
LSD	129.34	328 PKP	44	27.15	-0.1		
RSL	129.46	329 PKP	44	26.98	-0.4		
RSP	129.50	328 PKP	44	26.84	-0.5		
LPL	129.53	329 ePKP	44	26.70	-0.9		
	0.6s	11.25nm					
LPG	129.53	329 ePKP	44	26.90	-0.8		
	0.5s	9.10nm					
FIN	129.60	327 PKP	44	26.54	-0.9		
BHB	129.70	328 PKP	44	25.51	-2.1X		
LOR	129.70	332 ePKP	44	26.50	-1.1		
	1.3s	141.00nm					
ROB	129.73	327 PKP	44	27.25	-0.5		
LBF	129.85	332 ePKP	44	27.10	-0.8		
	1.5s	120.15nm					
BNI	129.87	328 PKP	44	31.00	2.9X		
RRL	129.90	328 PKP	44	28.38	0.1		
IMI	129.97	326 PKP	44	27.77	-0.5		
PZZ	130.01	328 PKP	44	27.77	-0.6		
SSF	130.02	332 ePKP	44	27.50	-0.6		
ENR	130.02	327 PKP	44	27.77	-0.6		
STV	130.06	327 PKP	44	26.64	-1.8		
SMF	130.17	332 ePKP	44	27.30	-1.1		
PGF	130.21	324 ePKP	44	27.90	-0.9		
	1.2s	178.50nm					
SBF	130.25	327 ePKP	44	27.50	-1.3		
	1.4s	187.35nm					
AVF	130.29	332 ePKP	44	27.70	-0.9		
	1.1s	35.40nm					
LDF	130.43	336 ePKP	44	28.00	-0.9		
	1.3s	140.80nm					
FLN	130.44	336 ePKP	44	28.00	-0.9		
	1.2s	172.55nm					
BGF	130.70	332 ePKP	44	28.70	-0.7		
SSB	130.80	330 PKP	44	29.42	-0.3		
FRF	130.88	327 ePKP	44	29.10	-0.8		
	1.2s	107.10nm					
GRR	130.89	336 ePKP	44	29.10	-0.6		
	1.4s	178.60nm					
MAF	131.08	332 ePKP	44	29.60	-0.6		
	1.5s	112.30nm					

	131.11	327 ePKP	44	29.50	-0.8		
LRG	131.11	327 ePKP	44	29.50	-0.8		
	1.2s	98.20nm					
TCF	131.19	332 ePKP	44	29.80	-0.6		
LPF	131.25	336 ePKP	44	29.80	-0.6		
	1.1s	170.95nm					
LSF	131.53	333 ePKP	44	30.20	-0.9		
	1.4s	128.50nm					
MFF	132.00	334 ePKP	44	31.30	-0.6		
	1.2s	86.30nm					
ARE	132.02	117 ePKP	44	34.00	0.8		
BST	132.18	339 PKP	44	30.55	-1.6		
RJF	132.25	332 ePKP	44	32.20	-0.2		
	1.5s	78.35nm					
CAF	132.27	331 ePKP	44	32.30	-0.2		
	1.6s	87.05nm					
LPO	132.87	332 ePKP	44	33.60	0.0		
LFF	132.89	332 ePKP	44	33.30	-0.3		
	1.6s	93.30nm					
EPF	134.51	331 ePKP	44	36.70	-0.2		
	1.2s	43.15nm					
BTH	134.71	331 ePKPc	44	38.00	0.8		
		e	44	44.00			
		pPKP	45	01.50			
CNCB	134.96	120 PKP	44	27.00	-12.1X		
		i	44	40.80			
LPB	134.97	119 PKP	44	30.00	-8.9X		
	1.0s	60.00nm					
		i	44	49.00			
ZOBO	135.06	119 PKP	44	24.00	-15.3X		
	1.0s	40.00nm					
		i	44	39.90			
EGRA	135.46	331 ePKP	44	37.70	-0.9		
ESEL	135.51	326 ePKP	44	39.80	1.0		
EROO	136.11	329 iPKPd	44	39.60	-0.3		
ECRI	136.18	333 iPKPd	44	41.10	1.0		
ETOR	137.35	331 ePKP	44	31.50	-10.9X		
EMON	137.52	338 iPKPd	44	43.20	0.6		
ECHE	137.73	329 ePKP	44	43.50	0.4		
ERUA	138.33	337 ePKP	44	39.40	-4.7X		
STS	138.45	338 iPKP	44	45.20	1.0		
GUD	138.49	332 ePKP	44	35.40	-9.2X		
TOL	139.04	332 ePKP	44	35.00	-10.4X		
EVIA	139.23	329 iPKPd	44	46.50	0.6		
EPLA	139.83	334 iPKPd	44	47.50	0.6		
EHUE	139.90	328 ePKP	44	39.10	-8.0X		
PTO	139.97	337 ePKP	44	43.50	-3.5X		
EBAN	140.25	330 iPKPc	44	47.60	-0.1		
ENIJ	140.32	327 ePKP	44	41.60	-6.2X		
ECOG	140.81	329 ePKP	44	41.10	-7.7X		
AFC	140.82	329 ePKP	44	41.60	-7.3X		
SIV	141.22	123 PKP	44	42.40	-7.6X		
EHOR	141.24	331 ePKP	44	42.90	-6.5X		
MAL	141.67	329 ePKP	44	50.00	-0.2		
EPRU	141.90	330 iPKPd	44	44.70	-5.0X		
EVIL	142.14	332 ePKP	44	46.70	-4.3X		
EJIF	142.42	330 ePKP	44	47.00	-4.5X		
IFR	144.47	326 iPKPc	44	54.50	-0.9		
PPD	144.80	140 ePKP	44	55.10	-0.9		
		e	44	58.20			
PAG	145.13	69 ePKP	44	55.00	-1.7		
AVE	145.88	328 iPKPc	44	58.00	0.5		
		i	45	21.50			
SVV	146.18	73 ePKP	45	00.98	2.5X		
SLB	146.24	72 ePKP	45	02.49	3.9X		
TPP	146.41	79 ePKP	45	01.12	2.3X		
TRN	146.42	78 ePKP	44	59.87	1.0		
VAO	146.62	147 ePKP	45	00.70	1.6		
		e	45	02.60			
		i	45	24.70			
		e	45	45.10			
TBH	146.77	78 ePKP	45	03.00	3.6X		
TIO	147.61	325 iPKPc	45	01.00	0.5		
		i	45	26.40			
BMA	148.33	151 ePKP	45	04.70	2.9X		
		e	46	29.10			
KIC	156.83	275 PKPc	45	13.84	-0.3		
	1.3s	45.00nm					
TIC	157.09	275 PKP	45	14.12	-0.3		
	1.2s	24.00nm					
LIC	157.12	274 PKPc	45	14.16	-0.3		
	1.2s	40.50nm					
MBO	165.63	312 iPKPc	45	24.90	1.9		
		i					

Z	10s	9.10um		5.7MsZ	X	TRD	70.66	339	eP	56	38.24	0.4	BNJ	78.29	314	P	57	25.80	3.3X	
E	11s	9.50um				ZST	70.80	316	eP	56	38.90	-0.2	FRF	78.59	312	eP	57	23.70	-0.3	
		eS	55	53.80					i	56	42.80	13km		1.6s	186.55nm			5.9mb		
HHC	28.46	26	P	51	17.80	0.0	COO	71.06	131	eP	56	42.00	1.0	DOU	78.72	319	P	57	25.70	1.1
	1.4s	87.00nm		5.3mb			ZAG	71.69	314	eP	56	45.50	0.9	LMR	78.73	312	eP	57	24.20	-0.6
Z	17s	15.00um		5.7MsZ	X	PTJ	71.71	314	iPc	56	42.50	-2.3		1.2s	56.55nm			5.5mb		
N	10s	9.20um				TDS	71.96	307	P	56	47.40	1.1	LRG	78.81	312	eP	57	25.20	0.0	
E	10s	9.40um				PRU	72.38	318	P	56	49.50	0.9		1.4s	135.05nm			5.8mb		
		SP	51	32.00			Z	15s	1.90um		5.5MsZ	X	SNF	78.84	319	Pc	57	25.70	0.5	
WMO	28.71	348	iPd	51	21.00	1.1	N	16s	0.80um				SSB	79.72	314	P	57	30.30	0.1	
	1.5s	100.00nm		5.4mb			E	14s	1.00um				LBF	79.75	316	eP	57	29.40	-0.9	
Z	16s	7.90um		5.4MsZ	X				e	56	53.00	11km		1.4s	74.05nm			5.5mb		
N	14s	9.00um				HFS	72.43	329	eP	56	48.30	-0.3	LOR	79.77	316	eP	57	29.50	-0.9	
E	14s	7.10um					0.9s	23.40nm		5.3mb			SMF	79.91	316	eP	57	30.20	-0.9	
KSH	29.17	328	Pd	51	29.00	4.8X	Z	17s	2.47um		5.5MsZ	X		0.9s	20.45nm			5.1mb		
	N	11s	13.50um						LR	27	31.00		SSF	80.05	316	eP	57	31.20	-0.6	
		S	56	20.00			LOF	72.50	337	eP	56	47.56	-1.3		1.6s	87.05nm			5.5mb	
BJI	29.99	32	eP	51	31.50	0.1	BRG	72.70	319	iP	56	50.90	0.5	DAG	80.08	348	eP	57	32.00	0.5
	Z	16s	10.50um		5.6MsZ	X		1.2s	34.00nm		5.3mb		AVF	80.21	316	eP	57	31.90	-0.8	
N	12s	10.80um							i	56	55.40	14km		1.5s	57.45nm			5.3mb		
SNY	35.30	37	Pd	52	17.00	-0.6	KMR	72.79	316	iP-	56	51.70	0.7	BGF	80.60	316	eP	57	34.40	-0.4
	Z	14s	10.10um		5.7MsZ	X			i	56	55.40	12km		1.0s	16.00nm			5.0mb		
N	11s	3.90um				BRN	73.06	321	eP	56	58.00	5.6X	BRW	80.61	18	eP	57	35.00	0.7	
E	11s	5.10um				KHC	73.07	317	iP	56	53.50	0.8	MAF	80.87	315	eP	57	36.10	-0.1	
		S	57	54.50					i	56	57.80	14km		1.4s	50.10nm			5.3mb		
MDJ	40.49	38	eP	53	02.60	1.6	NSS	73.14	333	eP	56	48.48	-4.2X	TCF	81.09	316	eP	57	37.20	-0.2
MBL	43.74	146	eP	53	26.50	-1.3	TRI	73.25	314	iPc	56	53.50	-0.2		1.5s	65.30nm			5.4mb	
MUN	51.45	158	eP	54	27.10	-1.0	CLL	73.26	319	iPd	56	54.20	0.5	CAF	81.51	314	eP	57	39.70	0.1
YAK	52.01	20	eP	54	31.00	-0.9		2.1s	150.00nm		5.7mb			1.4s	43.55nm			5.3mb		
WRA	52.03	132	P	54	31.00	-1.6			i	56	57.60	11km	LSF	81.56	316	eP	57	39.50	-0.3	
	0.9s	31.60nm		5.2mb		KBA	73.41	315	iPc	56	54.30	-0.6		1.3s	36.10nm			5.3mb		
NWAO	52.68	157	eP	54	36.00	-1.3		1.2s	48.80nm		5.4mb		RJF	81.80	315	eP	57	41.30	0.2	
	Z	20s	2.80um		5.3MsZ				i	56	58.70	14km		1.5s	78.35nm			5.6mb		
N	20s	2.10um							i	57	07.30		LDF	82.06	318	eP	57	42.10	-0.3	
E	20s	2.60um							e	59	36.00			1.7s	110.30nm			5.7mb		
ASPA	54.18	136	iPd	54	47.20	-1.3	WET	73.52	317	eP	56	55.50	0.2	EKA	82.07	325	Pc	57	43.90	1.7
	1.4s	20.80nm		5.0mb		N82	73.62	330	P	56	54.30	-1.3		0.6s	11.10nm			5.1mb		
	Z	20s	3.60um		5.4MsZ			0.7s	14.80nm		5.1mb		LPO	82.18	314	eP	57	43.10	0.0	
		e	55	52.80	304kmX		FVI	73.84	315	P	56	57.00	-0.1		1.0s	22.00nm			5.2mb	
QIS	56.28	129	eP	55	02.00	-1.8	ARV	74.07	311	P	56	59.00	0.4	FLN	82.25	318	eP	57	43.00	-0.3
DSI	56.76	298	eP	55	12.00	4.8X	MOX	74.19	319	iP	57	00.00	0.8		1.3s	43.30nm			5.4mb	
MKT	56.95	297	eP	55	13.00	4.4X		1.2s	18.00nm		5.0mb		LFF	82.42	314	eP	57	44.60	0.3	
RMN	57.40	296	eP	55	16.00	4.1X			i	57	04.00	13km		1.6s	62.20nm			5.5mb		
KAS	58.70	309	iPc	55	20.70	-0.1	GRF	74.55	318	eP	57	02.40	1.2	GRR	82.59	318	eP	57	45.10	0.0
OBN	59.60	325	iP	55	27.00	0.4			ec	57	05.90	11km		1.6s	55.95nm			5.5mb		
	1.2s	120.00nm		5.9mb					e	57	17.60		MFF	82.59	316	eP	57	44.90	-0.3	
	Z	20s	2.90um		5.4MsZ		CTI	74.68	314	P	57	02.60	0.4		1.4s	56.65nm			5.5mb	
N	23s	1.70um				SFI	74.81	312	P	57	04.00	1.2	LPF	82.80	318	eP	57	46.20	0.0	
E	18s	2.00um				BUL	74.98	244	iPd	57	04.00	-0.3		1.4s	78.40nm			5.7mb		
		ePcP	56	17.00					iP	57	08.20	14km	IMA	83.72	23	eP	57	51.40	0.6	
		eS	03	36.00		MUD	75.05	325	ePc	57	05.60	1.7		1.4s	37.60nm			5.4mb		
CTA	61.17	124	iPd	55	39.40	1.5		1.0s	22.00nm		5.1mb		TTA	84.08	26	eP	57	55.10	2.5	
	1.0s	20.00nm		5.2mb		TAU	75.23	143	eP	57	05.00	-0.1	ECB	84.84	323	eP	57	55.00	-1.4	
PSN	63.01	311	eP	55	50.00	0.1	MOL	75.24	331	iPc	57	06.00	1.1	ECB	85.02	323	eP	57	59.20	1.9
VR1	64.19	314	ePd	55	59.00	1.3	FIR	75.25	312	eP	57	05.00	-0.4	ETOR	85.52	311	eP	58	04.30	4.0X
BUC	64.56	312	iPd	56	05.00	5.0X	OSS	75.63	315	ePc	57	07.90	0.1	MBC	85.71	8	eP	58	00.50	0.1
STK	64.70	137	eP	56	20.40	19.3X	BDI	75.68	312	P	57	07.70	-0.3		1.0s	6.00nm			4.7mb	
	1.0s	6.30nm				LLS	76.39	315	ePc	57	12.00	0.0	FBA	86.44	22	eP	58	04.60	0.4	
MLR	64.72	313	ePc	56	03.50	2.2	BOB	76.39	313	P	57	12.80	0.8	EHUE	86.81	308	eP	58	07.50	0.8
KDZ	64.98	309	eP	56	03.00	0.1	SLE	76.59	316	ePc	57	13.30	0.4	GUD	87.09	311	eP	58	09.50	1.5
PVL	65.07	311	iP	56	04.00	0.6	ZLA	76.70	316	ePc	57	13.60	0.0	TOL	87.26	311	eP	58	14.00	5.3X
CMP	65.34	313	ePc	56	09.00	3.8X	FEL	76.89	316	eP	57	14.26	-0.5	PMR	87.56	26	eP	58	09.50	-0.2
RZN	65.50	309	iPc	56	06.00	-0.5	BNS	76.95	320	ePc	57	16.50	1.7		1.7s	86.70nm			5.8mb	
PLD	65.51	309	eP	56	06.00	-0.3		1.6s	96.00nm		5.6mb		TOA	88.51	25	eP	58	16.10	1.8	
PGB	65.92	310	eP	56	09.00	0.1	WIT	76.97	321	eP	57	18.00	3.2X	EHOR	88.80	309	eP	58	17.00	0.9
MMB	66.24	309	ePd	56	10.00	-1.0	WTS	77.01	321	eP	57	16.50	1.4	INK	88.96	16	eP	58	16.00	-0.3
KAF	66.50	331	iP	56	12.50	0.3		1.5s	91.00nm		5.6mb		EJIF	89.42	308	eP	58	12.00	-7.1X	
	1.1s	61.00nm		5.7mb		PGF	77.07	311	eP	57	15.20	-0.6	IFR	90.11	305	iPc	58	29.00	6.4X	
RMQ	66.54	129	eP	56	13.00	0.0		0.7s	22.05nm		5.3mb		AVE	91.99	305	eP	58	32.00	1.0	
VTS	66.62	310	iPc	56	14.00	0.4	MMK	77.22	314	ePc	57	17.50	0.8	YKA	98.37	14	eP	58	58.70	-0.9
NUR	67.02	329	eP	56	15.00	-0.5	CDF	77.29	317	eP	57	15.80	-1.1		0.8s	1.40nm			4.6mb	
	0.6s	11.90nm		5.2mb		DIX	77.60	315	ePc	57	19.50	0.7	ALO	125.28	22	ePKPc	04	24.00	0.3	
VAY	67.12	309	iP	56	15.70	-0.8	BSF	77.71	316	eP	57	13.20	-6.0X		0.9s	7.77nm				
	0.7s	58.00nm		5.9mb			1.9s	80.50nm		5.5mb			TUL	127.39	12	ePKP	04	30.00	2.5X	
		i	56	20.00	14km	MEM	77.74	319	P	57	18.70	-0.4		1.2s	17.10nm					
SOD	67.47	337	iP	56	17.90	-0.4	ENN	77.76	319	eP	57	20.50	1.2	Z	21s	1.19um			5.5MsZ	
KEV	67.91	340	iP	56	21.00	0.0	EMS	77.93	315	ePc	57	20.90	0.3	PPD	148.24	254	ePKP	05	10.40	4.7X
SKO	67.95	309	iP	56	21.00	-0.8	SBF	77.97	312	eP	57	19.90	-0.8			e	05	12.90		
		i	56	24.70	12km			1.1s	43.95nm		5.5mb		SIV	157.66	266	PKP	05	23.00	3.9X	
OHR	68.46	308	eP	56	23.70	-1.3	HAU	77.98	317	eP	57	19.70	-0.9			i	05	52.40		
	1.2s	121.00nm																		

01d 06h

LR 29 10.00
S.D. = 1.0 on 155 of 183 obs.

% APR 01, 1991 06h 32m 53.55±2.29s
39.246 N ±16.4km 23.509 E ±14.7km
DEPTH = 10.0km (geophysicist)

AEGEAN SEA (365)
MD 2.6 (THE).

PAIG 0.69 11 ePd 33 08.06 0.8
eS 33 18.30

AGG 0.94 257 ePd 33 11.70 0.1
eS 33 25.82

OUR 1.15 18 ePd 33 15.10 0.1
LIT 1.16 318 ePc 33 15.58 0.3
eS 33 33.10

THE 1.45 343 ePc 33 20.06 0.3
SOH 1.58 356 ePc 33 21.14 -0.5

SRS 1.87 2 ePc 33 25.22 -0.6
GRG 1.91 334 ePd 33 25.82 -0.6
iS 33 49.46

KNT 1.97 346 ePd 33 27.34 0.0
eS 33 52.06

S.D. = 0.6 on 9 of 9 obs.

& APR 01, 1991 06h 41m 26.80s
34.140 N 117.740 W

DEPTH = 11.0km
SOUTHERN CALIFORNIA (43)
<PAS>P>. ML 3.0 (PAS). Felt at
Pomona.

MWC 0.28 288 iPc 41 32.30 -0.5
PEC 0.54 117 iPd 41 36.70 -1.1

SBB 0.55 353 iPd 41 37.20 -0.8
PLM 1.07 137 eP 41 45.80 -1.2

ABL 1.41 301 eP 41 52.20 -0.4
5 obs. associated

APR 01, 1991 07h 34m 45.91±0.18s
16.175 N ±3.3km 98.278 W ±3.2km

DEPTH = 20.5km (8 depth phases)
5.5mb (58 obs.) 5.4Msz (16 obs.)

NEAR COAST OF GUERRERO, MEXICO (58)
Ms 5.4 (PAS). Mo=3.0*10**17 Nm

(PPT). Felt at Mexico City and
in parts of Oaxaca.

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 16S, 41C

Centroid Location:

Origin Time 07:34:55.6 0.5

Lat 16.70N 0.05 Lon 97.68W 0.05

Dep 39.8 3.3 Half-duration 3.1

Moment Tensor: Scale 10**17 Nm

Mrr= 3.93 0.31 Mtt=-5.49 0.30

Mff= 1.55 0.55 Mrt=-1.66 0.49

Mrf= 2.38 0.37 Mtf=-2.59 0.25

Principal Axes:

T Vol= 6.08 Plg=53 Azm=247

N 0.33 37 77

P -6.41 5 343

Best Double Couple: Mo=6.2*10**17

NP1: Strike= 40 Dip=51 Slip= 40

NP2: 283 60 134

ACX 1.67 295 iP 35 12.00 -2.2
OXX 1.74 59 iP 35 16.00 0.5

III 2.47 333 iP 35 26.00 0.1
IIT 2.83 359 iP 35 31.50 0.4

PPM 2.89 353 iP 35 32.00 -0.2
IISM 2.93 17 iP 35 32.00 -0.2

UNM 3.26 345 (P) 35 39.00 1.8
CRX 3.48 338 iP 35 42.50 2.1

LVVM 3.95 26 (P) 35 44.50 -2.2
MRX 4.47 322 iP 35 53.50 -0.7

SCX 5.44 83 eP 36 09.00 1.0
TPX 5.94 101 eP 36 15.00 0.1

CGX 6.05 306 eP 36 17.50 0.8
iS 37 23.50

VNM 9.86 348 (P) 37 16.50 6.9X
MZX 10.38 314 iP 37 18.00 1.3

UPA 19.63 109 ePc- 39 18.00 1.6
TUL 19.78 6 eP 39 14.70 -3.1X

Z 19s 181.30nm 5.3mb
eS 42 21.40

BIX 19.84 6 iP 39 17.20 -1.2
ALQ 20.08 340 ePd 39 20.20 -1.0

ANMO 20.08 340 P 39 20.60 -0.6
PWLA 20.84 24 P 39 26.30 -2.6

RSCP 22.43 28 eP 39 42.90 -2.0
Z 19s 4.67um 4.9Msz

ELC 22.50 19 P 39 44.00 -1.5
GLA 22.50 321 eP 39 46.00 0.4

FVM 22.80 16 P 39 46.20 -2.3
PRM 22.87 36 P 39 47.60 -1.6

HBF 23.25 41 P 39 52.50 -0.4
BAR 23.40 318 eP 39 56.00 1.6

PLM 23.96 319 iP 40 02.00 2.0
TPC 23.96 321 eP 40 01.00 1.1

GOL 24.24 347 P 40 03.70 0.9
0.9s 74.91nm 5.3mb

GLD 24.26 347 P 40 04.20 1.3
1.8s 403.85nm 5.7mb

PEC 24.50 320 P 40 06.80 1.7
1.0s 40.50nm 5.0mb

RVR 24.70 319 eP 40 08.00 1.0
MWC 25.28 319 eP 40 14.00 1.3

YANA 25.30 128 eP 40 15.50 2.1
PAS 25.30 319 eP 40 11.00 -1.7

ePcP 42 04.00
eS 44 40.00
eLg 46 00.00
ePcS 47 02.00
eLR 47 46.00

GGP 25.32 128 eP 40 15.90 2.2
OUR 25.37 128 eP 40 16.90 2.9

MSU 25.38 334 P 40 14.60 0.9
SBB 25.44 320 eP 40 15.00 0.9

PSO 25.46 124 eP 40 17.00 2.2
CLC 26.06 322 eP 40 20.00 0.1

NAV 26.13 33 P 40 20.20 -0.2
BLA 26.24 34 eP- 40 22.00 0.5

Z 20s 4.61um 5.0Msz
eS 44 53.60

BOG 26.40 113 iP 40 32.00 8.5X
iS 45 05.00

ISA 26.48 321 eP 40 24.00 0.3
e 43 49.00

DAU 26.65 338 P 40 26.60 1.0
SYP 26.70 317 eP 40 26.00 0.1

DUG 27.07 335 P 40 30.60 1.4
0.9s 26.50nm 4.9mb

BCH 27.18 318 P 40 31.20 1.0
TNP 27.47 326 P 40 33.50 0.6

0.8s 15.59nm 4.8mb
BONR 27.96 325 P 40 38.40 0.9

FRI 28.11 322 ePc 40 38.20 -0.2
PRI 28.15 319 eP 40 39.70 0.8

BW06 28.22 342 P 40 39.20 -0.5
RSSD 28.28 351 iP 40 40.00 -0.2

Z 19s 1.56um 4.6Msz
LLA 28.62 320 ePc 40 42.90 -0.2

CBN 28.63 36 eP 40 44.00 0.9
e 41 27.00 214kmX

KVN 28.65 327 P 40 44.60 1.1
PRS 28.71 319 eP 40 44.50 0.6

SAO 29.03 319 eP 40 47.50 0.8
CLE 29.07 26 iP 40 46.10 -1.0

CMB 29.21 322 iPc 40 48.70 0.3
ARN 29.45 320 P 40 51.80 1.2

MHC 29.51 320 eP 40 51.70 0.5
BKS 30.21 320 eP 40 56.00 -1.3

1.3s 117.00nm 5.6mb
eS 46 05.00
eLO 48 36.00

ORV 30.87 324 eP 41 04.20 1.1
WVLY 31.18 29 P 41 06.40 0.6

LRM 31.85 341 ePc 41 12.30 0.3
WDC 32.15 324 eP 41 12.30 -2.0

GMTN 32.26 35 iP 41 17.50 2.2
PNJ 32.29 35 iP 41 17.30 1.8

i 41 22.00 16km
LBFM 32.31 326 P 41 16.40 0.4

TBR 32.42 35 P 41 15.60 -1.0
TXNY 32.46 35 iP 41 17.00 0.0

FHC 33.12 323 eP 41 24.00 1.2
RSNY 34.67 30 eP 41 35.40 -0.7

1.1s 18.63nm 4.9mb
Z 20s 2.26um 4.9Msz
NEW 35.55 338 eP 41 43.40 -0.2
1.3s 353.77nm 6.1mb

Z 21s 9.77um 5.5Msz
DPW 35.62 337 P 41 44.50 0.3

SES 35.66 346 eP 41 44.00 -0.5
1.3s 106.00nm 5.6mb
pP 41 51.00 24km

GMW 37.25 332 P 41 58.20 0.2
PNT 37.34 337 ePc 41 59.00 0.3
1.1s 139.00nm 5.7mb

PGC 38.38 333 eP 42 08.00 0.7
FFC 38.58 357 eP 42 08.00 -0.9

0.9s 75.00nm 5.4mb
EDM 38.82 346 eP 42 11.00 -0.1
1.0s 143.00nm 5.7mb

ARE 41.83 140 eP 42 38.00 1.4
e 49 02.00
e 52 18.00

ZOBO 43.87 136 iPc 42 53.10 -0.4
1.2s 40.54nm 5.1mb

Z 20s 2.72um 5.2Msz
S 49 20.00
LR 57 08.00

LPB 44.07 136 Pc 42 55.50 0.5
1.2s 93.75nm 5.5mb

Z 16s 4.38um 5.5MszX
S 49 34.00
LR 58 40.00

CNCB 44.35 136 iPc 42 57.90 0.5
i 44 42.20 585kmX

SCH 45.57 25 ePd 43 05.40 -0.7
0.9s 46.00nm 5.4mb

YKA 47.67 350 eP 43 20.50 -2.1
0.8s 13.10nm 5.0mb

ANT 48.09 145 e(P) 43 26.20 -0.1
SIV 48.68 129 iPc 43 29.60 -1.4

FRB 51.75 16 ePd 43 53.60 -0.2
PEL 55.68 152 iPd 44 23.50 0.3

SAN 55.95 152 eP 44 24.50 -0.6
LNV 56.04 153 eP 44 24.50 -1.2

MDZ 56.31 150 i(P) 44 25.10 -2.7
KLU 56.39 335 P 44 29.20 1.1

INK 56.72 345 ePc 44 29.00 -1.2
0.8s 66.00nm 5.7mb

TOA 56.81 335 eP 44 32.00 0.9
0.9s 111.67nm 5.9mb

RUV 57.64 240 iP 44 37.60 0.3
0.8s 45.00nm 5.6mb

TPT 57.73 240 iP 44 38.20 0.2
0.8s 35.00nm 5.4mb

PMR 57.77 334 ePc 44 37.60 -0.1
0.9s 72.00nm 5.7mb

Z 20s 3.00um 5.4Msz
VAH 57.87 240 iP 44 39.10 0.2

0.8s 40.00nm 5.5mb
PMO 57.97 240 iP 44 39.80 0.1

0.8s 30.00nm 5.4mb
FBA 58.90 338 ePc 44 45.20 -0.4

0.9s 112.92nm 6.0mb
GDH 59.87 17 iPd 44 51.20 -1.0

0.5s 28.17nm 5.7mb
i 53 10.00

SVW 60.41 332 eP 44 55.60 -0.4
TVO 60.50 238 iP 44 57.00 -0.2

0.8s 55.00nm 5.7mb
PPT 60.65 239 iP 44 56.20 -2.0

0.8s 30.00nm 5.5mb
AFR 60.80 239 iP 44 57.40 -1.8

0.8s 65.00nm 5.8mb
MBC 61.09 354 ePc 44 59.70 -0.7

1.0s 63.00nm 5.7mb
SDN 61.11 325 e(P) 45 00.30 -0.5

TTA 61.26 334 ePc 45 00.80 -1.0
1.0s 73.25nm 5.8mb

IMA 61.62 338 ePc 45 03.10 -1.2
1.3s 25.50nm 5.2mb

VAO 63.52 127 eP 45 15.80 -1.6
BRW 64.91 342 eP 45 25.10 -0.6

ADK 70.31 320 eP 45 58.70 -1.2
1.4s 353.20nm 6.3mb

DAG 71.96 14 iPd 46 08.00 -1.5
0.4s 26.27nm 5.6mb

KBS 78.03 11 iPd 46 45.60 1.5
EPLA 81.42 51 eP 47 03.40 0.3

AVE 82.00 58 iP 47 07.00 0.8
EHOR 82.60 53 eP 47 09.50 0.3

GUD 82.70 50 eP 47 10.20 0.3
TIO 82.71 60 iP 47 10.00 -0.1

						i	47 15.40	17km							e	47 53.80	26km	NNAO 143.86 236 ePKP 54 18.00 -3.9X					
EJIF	82.77	54	eP	47 11.50	1.4							e	48 02.10		MEKA 144.30 247 iPKPd 54 20.00 -2.8X								
LPF	82.88	42	eP	47 09.80	-0.6	CLL 90.19 36 eP 47 46.00 -0.2						e	47 46.00	-0.2	POO 144.65 13 iPKP 54 21.30 -2.3X								
	1.1s	36.65nm		5.4mb								i	48 05.20	69kmX	BAL 144.99 239 ePKP 54 21.70 -2.2X								
GRR	82.90	42	eP	47 10.30	-0.2	KAF 90.69 23 eP 47 47.40 -0.9						e	47 47.40	-0.9	MUN 144.99 237 ePKP 54 22.20 -1.6								
	1.0s	24.00nm		5.3mb		8RG 90.92 36 eP 47 49.80 0.3						9.40nm	5.2mb	0.9s 97.00nm									
TOL	82.98	51	iP-	47 17.00	5.8X	1.3s 23.00nm						i	47 57.10	23km	KHT 145.01 331 ePKP 54 23.00 -1.3								
		ePP	50 18.00									e	48 07.60		HYB 146.48 5 ePKP 54 25.40 -1.3								
		eS	57 32.00									e	49 06.20		1.0s 130.00nm								
		ePS	58 33.00									e	51 24.00		TRT 148.64 282 ePKPc 54 25.00 -5.2X								
FLN	83.03	41	eP	47 11.00	-0.2							e	59 12.00		SNG 150.20 320 ePKP 54 38.00 5.4X								
	1.1s	34.20nm		5.4mb		NUR 91.02 25 iP 47 51.80 2.0						e	00 16.00		IPM 151.89 316 ePKPc 54 38.40 3.2X								
LDF	83.31	41	eP	47 12.40	-0.2	0.7s 16.00nm						e	51 24.00		0.8s 31.30nm								
	1.1s	24.40nm		5.3mb		TIC 91.29 83 P 47 51.52 -0.4						e	59 12.00		KGM 152.03 308 ePKPd 54 42.40 7.0X								
MAL	83.52	54	iPd	47 16.00	2.0	LIC 91.40 83 P 47 52.10 -0.3						e	00 16.00		KOD 153.43 9 ePKP 54 38.00 0.3								
		iS	57 38.00		Z 20s 0.70um						e	51 24.00		S.D. = 1.1 on 203 of 226 obs.									
IFR	83.80	57	iP	47 16.70	1.0	KHC 91.50 38 iP 47 52.40 0.1						e	48 08.50	56kmX	* APR 01, 1991 07h 48m 26.14±2.22s								
MFF	83.87	43	eP	47 15.00	-0.5	Z 18s 2.00um						e	47 53.06	-0.4	16.287 N ±19.1km 98.067 W ±10.8km								
RGS	83.93	26	eP	47 16.50	1.0	N 18s 0.50um						e	47 53.00	0.0	DEPTH = 56.6 ± 14.4 km								
ECOG	84.03	53	iP	47 17.70	1.0	E 18s 0.60um						e	48 00.00	22km	3.6mb (3 obs.)								
AFC	84.05	53	eP	47 17.70	0.8	KIC 91.63 83 Pc 47 53.06 -0.4						e	48 09.00		NEAR COAST OF GUERRERO, MEXICO (58)								
ETOR	84.19	49	eP	47 18.00	0.6	PRU 91.67 37 eP 47 53.00 0.0						e	47 55.80	0.1	OXX 1.51 58 eP 48 52.50 1.0								
EHUE	84.63	52	eP	47 20.70	1.0	Z 16s 1.80um						e	51 38.00		III 2.47 327 iP 49 16.00								
BTH	84.85	47	ePc	47 21.50	1.0	N 18s 0.80um						e	47 55.00	-1.2	IIT 2.73 355 eP 49 09.00 0.4								
		pP	47 27.50	19km	E 16s 1.30um						e	48 13.00	64kmX	1.0s 1.68nm									
		PP	50 45.00								e	48 51.00		24.18 346 eP 53 39.30 0.7									
		eS	57 54.00								e	48 04.30	0.5	0.7s 2.18nm									
		eSS	08 04.20								e	48 09.40	-0.5	YKA 47.60 350 eP 56 58.50 0.5									
LFF	84.96	45	eP	47 20.90	-0.1	PSZ 95.76 37 eP 48 12.70 0.7						e	48 15.30	18km	0.6s 0.40nm								
EGRA	85.05	48	eP	47 25.50	4.0X	CTA 118.87 256 iPKP 53 34.50 -0.9						e	48 12.70	0.7	INK 56.66 345 eP 58 05.00 -0.6								
NB2	85.08	27	P	47 22.30	0.9	TIY 119.11 332 ePKP 53 34.50 5.5MsZ						e	53 34.50	-0.9	MBC 61.00 354 eP 58 36.00 0.4								
	1.1s	32.50nm		5.5mb	Z 24s 1.30um						e	53 36.10	-0.9	WB2 130.20 257 iPKPd 07 31.90 -0.5									
LSF	85.08	43	eP	47 21.00	-0.6	E 17s 1.50um						e	53 40.00	-1.2	0.3s 1.40nm								
	1.0s	15.00nm		5.2mb	WMQ 120.05 355 ePKP 53 36.10 -0.9						e	53 40.00	-1.2	WRA 130.21 257 PKP 07 32.00 -0.4									
AIA	85.17	166	eP	47 24.00	2.5	GTA 122.18 343 ePKP 53 40.00 -1.2						e	53 36.10	-0.9	S.D. = 1.0 on 14 of 16 obs.								
EPF	85.26	47	eP	47 22.70	0.0	1.4s 10.00nm						e	53 36.10	-0.9	? APR 01, 1991 08h 02m 16.94±11.06s								
	1.0s	34.00nm		5.5mb	Z 18s 1.50um						e	53 36.10	-0.9	15.473 N ±91.4km 98.228 W ±24.5km									
LPO	85.34	45	eP	47 22.70	-0.2	E 14s 1.10um						e	53 36.10	-0.9	DEPTH = 33.0km (normal)								
RJF	85.37	44	eP	47 22.60	-0.5	PP 55 18.00						e	53 36.10	-0.9	OFF COAST OF GUERRERO, MEXICO (65)								
	1.1s	29.30nm		5.4mb	SKS 00 52.00						e	53 36.10	-0.9	OXX 2.16 42 eP 02 51.50 0.0									
Z	21s	2.00um		5.5MsZ	STK 123.77 242 ePKP 54 04.10 19.7X						e	53 36.10	-0.9	III 3.12 338 eP 03 05.00 -0.2									
UCC	85.38	38	P	47 24.10	1.1	LZH 123.97 338 ePKP 53 44.50 -0.4						e	53 44.50	-0.4	IIT 3.53 359 eP 03 10.50 -0.6								
DBN	85.41	37	eP	47 29.00	5.9X	Z 22s 1.90um						e	53 44.50	-0.4	(S) 03 53.50								
	Z	17s	1.50um	5.5MsZ	N 15s 1.42um						e	53 44.50	-0.4	IISM 3.59 13 eP 03 11.50 -0.1									
SNF	85.43	39	Pc	47 23.50	0.3	OIS 125.13 256 iPKPc 53 46.50 -0.8						e	53 46.50	-0.8	PPM 3.59 354 eP 03 13.00 0.8								
TCF	85.52	43	eP	47 23.20	-0.6	CD2 128.61 336 ePKP 53 53.00 -0.8						e	53 46.50	-0.8	S.D. = 0.7 on 5 of 5 obs.								
	1.1s	39.05nm		5.5mb	WB2 129.98 257 iPKPc 53 55.70 -0.9						e	53 46.50	-0.8	APR 01, 1991 08h 49m 30.03±0.74s									
MAF	85.77	43	eP	47 24.60	-0.5	0.9s 41.10nm						e	53 46.50	-0.8	6.515 S ± 7.4km 143.978 E ± 8.1km								
	1.1s	46.40nm		5.6mb	WRA 129.99 257 PKP 53 55.00 -1.7						e	53 46.50	-0.8	DEPTH = 44.5 ± 8.6 km									
BGF	85.85	43	eP	47 24.90	-0.6	ASPA 130.60 253 iPKPc 53 56.50 -1.3						e	53 46.50	-0.8	4.1mb (2 obs.)								
	1.0s	30.00nm		5.5mb	Z 19s 1.20um						e	53 56.50	-1.3	PAPUA NEW GUINEA (202)									
CAF	85.85	44	eP	47 25.00	-0.6	GYA 131.18 330 iPKPd 53 59.00 0.1						e	53 59.00	0.1	MNDI 0.48 318 iP 49 41.30 0.3								
EROQ	85.98	49	eP	47 26.70	0.5	1.0s 1.10um						e	53 59.00	0.1	YYY 1.99 82 eP 50 02.50 0.5								
WIT	86.01	36	eP	47 28.00	1.9	NAI 133.34 76 ePKP 54 06.00 2.5X						e	53 59.00	0.1	PMG 4.26 133 eP 50 33.00 -1.2								
AVF	86.10	42	eP	47 25.80	-0.9	KMI 134.12 333 PKPd 54 05.00 0.3						e	53 59.00	0.1	OIS 14.59 196 eP 52 56.00 0.5								
	1.0s	15.00nm		5.2mb	Z 16s 1.50um						e	53 59.00	0.1	eS 55 35.00									
SSF	86.11	42	eP	47 26.00	-0.7	NDI 135.19 6 ePKP 54 06.00 -0.3						e	53 59.00	0.1	WB2 16.30 214 iPc 53 16.80 -0.7								
	1.1s	34.20nm		5.5mb	GUN 135.99 355 PKP 53 54.00 -14.3X						e	53 59.00	0.1	0.3s 5.40nm									
KEV	86.20	17	iP	47 26.60	-0.1	GKN 135.99 356 PKP 53 55.66 -12.4X						e	53 59.00	0.1	4.2mb								
	0.7s	14.70nm		5.3mb	KKN 136.16 355 PKP 53 56.92 -11.5X						e	53 59.00	0.1	ASPA 19.61 209 iPd 53 58.70 0.9									
LOR	86.27	42	eP	47 26.90	-0.6	DMN 136.35 356 PKP 53 55.44 -13.4X						e	53 59.00	0.1	0.8s 7.50nm								
	1.0s	43.00nm		5.6mb	PKI 136.37 355 PKP 53 54.64 -14.4X						e	53 59.00	0.1	eS 57 36.80									
Z	20s	3.00um		5.7MsZ	MBL 143.61 256 iPKPc 54 17.70 -4.1X						e	53 59.00	0.1	GUN 65.66 304 P 00 12.34 -0.4									
ENN	86.32	38	eP	47 28.50	0.8	Z 16s 1.50um						e	53 59.00	0.1	PKJ 65.92 304 P 00 14.00 -0.4								
	0.9s	27.00nm		5.5mb	NDI 135.19 6 ePKP 54 06.00 -0.3						e	53 59.00	0.1	KKN 66.10 304 P 00 15.20 -0.2									
WTS	86.39	37	eP	47 29.00	1.0	GUN 135.99 355 PKP 53 54.00 -14.3X						e	53 59.00	0.1									
	1.0s	13.00nm		5.1mb	GKN 135.99 356 PKP 53 55.66 -12.4X						e	53 59.00	0.1										
MEM	86.43	38	Pc	47 29.60	1.4	KKN 136.16 355 PKP 53 56.92 -11.5X						e	53 59.00	0.1									
LBF	86.44	42	eP	47 27.50	-0.9	DMN 136.35 356 PKP 53 55.44 -13.4X						e	53 59.00	0.1									
	1.1s	24.40nm		5.3mb	PKI 136.37 355 PKP 53 54.64 -14.4X						e	53 59.00	0.1										
SMF	86.46	42	eP	47 27.50	-1.0	MBL 143.61 256 iPKPc 54 17.70 -4.1X						e	53 59.00	0.1									
HFS	86.58	28	eP	47 28.30	-0.4	Z 16s 1.50um						e	53 59.00	0.1									
	1.4s	52.70nm		5.6mb	NDI 135.19 6 ePKP 54 06.00 -0.3						e	53 59.00	0.1										
Z	17s	1.55um		5.5MsZ	GUN 135.99 355 PKP 53 54.00 -14.3X						e	53 59.00	0.1										
		LR	19 48.00		GKN 135.99 356 PKP 53 55.66 -12.4X						e	53 59.00	0.1										
SOD	87.56	19	iP	47 32.70	-0.7	KKN 136.16 355 PKP 53 56.92 -11.5X						e	53 59.00	0.1									
HAU	87.58	41	eP	47 32.80	-1.1	DMN 136.35 356 PKP 53 55.44 -13.4X						e	53 59.00	0.1									
	0.7s	6.60nm		5.0mb	PKI 136.37 355 PKP 53 54.64 -14.4X						e	53 59.00	0.1										
Z	19s	3.25um		5.8MsZ	MBL 143.61 256 iPKPc 54 17.70 -4.1X						e	53 59.00	0.1										
ABH	87.62	39	eP	47 34.03	0.0	Z 16s 1.50um						e	53 59.00	0.1									
BSF	87.92	41	eP	47 34.40	-1.3	NDI 135.19 6 ePKP 54 06.00 -0.3						e	53 59.00	0.1									
CDF	88.01	40	eP	47 34.80	-1.2	GUN 135.99 355 PKP 53 54.00 -14.3X						e	53 59.00	0.1									
UPP	88.44	27	iP	47 37.30	-0.4	GKN 135.99 356 PKP 53 55.66 -12.4X						e	53 59.00	0.1									
MOX	89.70	37	eP	47 51.00	7.1X	KKN 136.16 355 PKP 53 56.92 -11.5X						e	53 59.00	0.1									
GRF	89.87	38	e(PKp)	47 45.60	0.8	DMN 136.35 356 PKP 53 55.44 -13.4X						e	53 59.00	0.1									
	Z	19s	1.40um	5.4MsZ	PKI 136.37 355 PKP 53 54.64 -14.4X						e	53 59.00	0.1										
					MBL 143.61 256 iPKPc 54 17.70 -4.1X						e	53 59.00	0.1										

01d 09h

DMN 66.18 304 P 00 15.80 -0.2
 GKN 66.71 304 P 00 18.78 -0.5
 SIV 146.61 132 PKP 09 09.00 1.2
 KIC 148.92 272 PKP 09 16.00 4.4X
 LIC 149.20 271 PKP 09 16.70 4.7X
 S.D. = 0.8 on 12 of 14 obs.

APR 01, 1991 09h 01m 31.47± 1.05s
 16.279 N ± 8.2km 98.101 W ± 4.3km
 DEPTH = 43.6 ± 6.6 km
 5.1mb (29 obs.) 4.8Msz (2 obs.)
 NEAR COAST OF GUERRERO, MEXICO (58)
 Felt at Mexico City and in ports
 of Oaxaca.
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 125, 25C
 Centroid Location:
 Origin Time 09:01:36.8 0.9
 Lat 16.50N 0.10 Lon 98.05W 0.10
 Dep 15.0 FIX Half-duration 1.7
 Moment Tensor: Scale 10¹⁷ Nm
 Mrr= 1.22 0.11 Mtt=-1.46 0.12
 Mff= 0.24 0.14 Mrt=-0.56 0.53
 Mrf= 0.28 0.29 Mtf=-0.45 0.12
 Principal Axes:
 T Val= 1.44 Plg=68 Azm=233
 N 0.20 20 82
 P -1.65 10 348
 Best Double Couple: Mo=1.5*10¹⁷
 NP1: Strike= 55 Dip=39 Slip= 58
 NP2: 275 58 114

OXX 1.54 59 iP 01 58.00 0.9
 ACX 1.78 289 iP 01 55.00 -5.4X
 III 2.46 328 iP 02 09.00 -1.2
 (S) 02 47.00
 IIT 2.73 356 iP 02 14.00 -0.2
 iS 02 54.50
 IISM 2.78 14 iP 02 15.00 0.4
 iS 02 53.00
 PPM 2.82 350 iP 02 15.00 -0.6
 UNM 3.21 341 eP 02 22.00 1.1
 (S) 03 07.50
 CRX 3.45 334 eP 02 25.50 1.0
 LVVM 3.78 24 eP 02 27.00 -1.7
 MRX 4.50 320 eP 02 39.00 0.1
 SCX 5.26 84 (P) 02 57.50 7.8X
 TPX 5.79 103 (P) 03 06.50 9.3X
 CGX 6.13 305 (P) 03 02.50 0.4
 MEO 18.43 359 e(P) 05 43.50 -2.0
 UPA 19.50 110 (P) 06 03.00 4.9X
 TUL 19.66 6 ePd 05 56.90 -2.8
 0.6s 18.90nm 4.6mb
 Z 20s 0.48um

BIX 19.72 5 e(P) 06 04.30 3.9X
 ALQ 20.04 340 ePc 06 03.80 -0.1
 1.0s 39.25nm 4.7mb
 ANMO 20.04 340 P 06 04.00 0.1
 0.8s 27.99nm 4.6mb
 RSCP 22.26 28 P 06 26.00 -0.2
 GLA 22.53 321 eP 06 30.00 1.1
 FVM 22.66 16 P 06 30.20 0.1
 BAR 23.44 318 eP 06 39.00 1.2
 TPC 23.99 321 eP 06 44.00 0.9
 PLM 23.99 319 eP 06 45.00 1.7
 GLD 24.20 347 P 06 46.50 1.3
 1.5s 109.38nm 5.2mb
 PEC 24.53 319 P 06 49.20 0.8
 RVR 24.73 319 eP 06 51.00 0.7
 GSC 25.26 322 eP 06 56.00 0.6
 MWC 25.31 319 eP 06 57.00 1.0
 SBB 25.47 320 eP 06 57.00 -0.3
 CLC 26.09 322 eP 07 03.00 0.0
 ISA 26.51 321 eP 07 07.00 0.1
 SYP 26.74 317 eP 07 09.00 -0.1
 TNP 27.47 326 P 07 15.50 -0.3
 0.9s 11.72nm 4.5mb
 FRI 28.14 321 eP 07 20.50 -1.1
 BW06 28.17 342 P 07 21.00 -1.1
 1.0s 18.33nm 4.7mb
 PRI 28.18 319 eP 07 22.90 0.8
 RSSD 28.20 351 P 07 22.80 0.4
 1.5s 27.07nm 4.7mb
 LLA 28.65 319 ePc 07 25.70 -0.6

SAO 29.06 319 eP 07 29.20 -0.7
 CMB 29.23 322 eP 07 31.30 -0.2
 MHC 29.54 320 eP 07 34.50 0.1
 LRM 31.81 341 ePc 07 55.00 0.5
 RSNY 34.50 30 P 08 17.00 -0.4
 NEW 35.51 338 P 08 25.70 -0.5
 0.7s 14.00nm 5.0mb
 SES 35.60 346 eP 08 27.00 0.2
 PNT 37.31 337 ePc 08 42.00 0.8
 0.8s 25.00nm 5.2mb
 FFC 38.48 356 iPc 08 51.10 0.1
 0.7s 23.00nm 5.1mb
 EDM 38.76 345 ePc 08 53.00 -0.4
 ZOBO 43.82 136 P 09 27.00 -8.9X
 Z 22s 0.92um 4.6Msz
 S 16 12.00
 LR 25 00.00
 LPB 44.03 136 eP 09 26.00 -11.4X
 Z 18s 1.37um 4.9Msz
 i 09 37.00
 LR 25 10.00
 CNCB 44.31 137 P 09 20.00 -19.8X
 i 09 39.00
 i 11 24.00
 SCH 45.41 25 eP 09 47.00 -0.6
 YKA 47.60 350 eP 10 02.40 -2.3
 1.1s 9.20nm 4.7mb
 SIV 48.61 129 P 10 11.20 -2.0
 FRB 51.61 16 eP 10 35.00 -0.4
 BALM 54.67 335 P 10 58.80 0.4
 INK 56.66 345 iPc 11 11.60 -0.8
 0.8s 36.00nm 5.5mb
 TOA 56.79 335 ePc 11 14.70 1.1
 PMR 57.76 334 iPc 11 20.40 0.2
 0.7s 25.40nm 5.4mb
 FBA 58.87 338 iPc 11 27.60 -0.4
 0.9s 25.00nm 5.3mb
 SVW 60.40 332 ePc 11 37.90 -0.7
 MBC 61.01 354 ePc 11 42.10 -0.3
 1.0s 35.00nm 5.4mb
 TTA 61.24 334 iPc 11 43.40 -0.9
 IMA 61.59 338 eP 11 45.40 -1.3
 1.2s 8.20nm 4.7mb
 VAO 63.44 127 (P) 11 56.00 -3.5X
 BRW 64.86 342 eP 12 07.60 -0.4
 ANM 65.70 334 ePc 12 14.00 0.5
 ADK 70.34 320 e(P) 12 41.10 -1.5
 DAG 71.82 14 iPd 12 50.90 -0.2
 0.3s 24.68nm 5.6mb
 TIO 82.51 60 iP 13 52.50 1.0
 LPF 82.69 42 iPc 13 52.50 0.6
 1.1s 17.10nm 5.0mb
 GRR 82.71 42 iPc 13 52.70 0.7
 FLN 82.84 41 iPc 13 53.60 0.9
 1.0s 16.00nm 5.0mb
 LDF 83.12 41 iP 13 54.90 0.8
 0.9s 14.75nm 5.0mb
 MFF 83.68 43 eP 13 57.60 0.6
 LFF 84.76 45 iPc 14 03.20 0.7
 LSF 84.89 43 eP 14 03.50 0.4
 NB2 84.91 27 P 14 04.00 1.0
 0.8s 8.00nm 4.9mb
 EPF 85.06 47 eP 14 05.20 1.1
 1.0s 17.00nm 5.2mb
 LPO 85.14 45 iPc 14 05.20 0.8
 RJF 85.17 44 iPc 14 05.20 0.6
 1.1s 19.55nm 5.2mb
 TCF 85.33 43 iPc 14 05.90 0.6
 1.1s 18.30nm 5.2mb
 MAF 85.58 43 iPc 14 07.30 0.7
 1.1s 23.20nm 5.3mb
 BGF 85.66 43 eP 14 07.50 0.6
 CAF 85.66 45 iPc 14 07.00 0.0
 AVF 85.91 42 iPc 14 08.30 0.1
 SSF 85.92 42 iPc 14 08.50 0.3
 1.1s 17.10nm 5.2mb
 KEV 86.05 17 eP 14 07.00 -1.5
 LOR 86.08 42 iPc 14 09.50 0.5
 1.1s 29.30nm 5.4mb
 LBF 86.25 42 iPc 14 10.10 0.2
 1.1s 13.45nm 5.1mb
 SMF 86.27 42 iPc 14 10.00 0.0
 APO 86.33 27 eP 14 10.00 0.0
 0.6s 6.70nm 5.0mb
 HAU 87.39 41 eP 14 15.30 -0.1
 SOD 87.41 19 iP 14 14.70 -0.4
 BSF 87.74 41 eP 14 17.10 -0.1

CDF 87.82 40 eP 14 17.40 -0.2
 BRG 90.74 36 e(P) 14 32.10 1.0
 NUR 90.86 25 eP 14 25.00 -6.5X
 LIC 91.21 83 P 14 34.04 0.1
 KIC 91.45 83 Pc 14 35.08 0.0
 ZST 93.82 37 eP 14 46.20 0.8
 e 35 38.00
 STK 123.97 242 iPKPd 20 46.40 19.3X
 0.8s 5.80nm
 WB2 130.17 257 iPKPc 20 38.40 -0.9
 0.6s 17.40nm
 WRA 130.18 257 PKP 20 38.00 -1.3
 0.8s 12.10nm
 ASPA 130.79 253 ePKP 20 39.00 -1.4
 0.4s 5.50nm
 eSKP 24 01.90
 MEKA 144.50 247 ePKP 21 01.80 -3.7X
 KHT 145.01 331 iPKPc 21 05.70 -0.8
 BAL 145.19 240 ePKP 21 04.40 -2.1X
 MUN 145.19 237 iPKPd 21 04.70 -1.8X
 HYB 146.36 6 ePKP 21 08.70 -0.1
 1.0s 50.00nm
 SNG 150.23 320 ePKP 21 20.40 5.5X
 KOD 153.30 10 ePKP 21 27.00 7.2X
 S.D. = 0.9 on 98 of 114 obs.

? APR 01, 1991 09h 45m 48.01± 2.36s
 33.776 S ± 24.9km 68.638 W ± 21.4km
 DEPTH = 159.6 ± 11.2 km
 MENDOZA PROVINCE, ARGENTINA (139)
 MDZ 0.91 349 eP 46 13.80 0.5
 iS 46 30.80
 PCH 1.57 275 iPc 46 20.50 1.0
 iS 46 43.50
 SAN 1.72 280 iPc 46 21.50 0.5
 iS 46 44.70
 PEL 1.82 290 iPc 46 22.00 -0.2
 iS 46 45.50
 TACH 1.92 273 iP 46 23.10 -0.1
 iS 46 49.50
 JACH 1.97 303 iPd 46 23.50 -0.4
 iS 46 49.00
 ROCH 2.14 291 iPc 46 25.00 -1.0
 iS 46 51.50
 ZON 2.22 359 iPd 46 26.00 -0.8
 LNV 2.31 265 iPd 46 27.50 -0.3
 LCCH 2.46 276 iPc 46 29.60 0.0
 iS 46 58.00
 CNCB 16.90 2 Pc 49 38.20 1.0
 LPB 17.18 2 P 49 41.00 0.7
 ZOBO 17.44 2 P 49 32.80 -10.8X
 SIV 18.98 23 P 49 58.60 -1.1
 S.D. = 0.8 on 13 of 14 obs.

APR 01, 1991 10h 10m 32.20± 0.44s
 45.669 N ± 4.2km 26.499 E ± 6.7km
 DEPTH = 174.4 ± 5.2 km
 3.6mb (3 obs.)
 ROMANIA (358)
 VRI 0.26 38 iPc 10 55.50 0.4
 CVO 0.27 304 iPc 10 55.00 -0.2
 MLR 0.43 246 iPc 10 56.00 0.2
 BAC 0.94 17 iP 11 05.00 5.9X
 CMP 1.10 249 iPd 11 02.00 1.5
 MTUR 1.10 247 ePc 11 00.50 0.0
 CFR 1.26 112 iPd 11 01.00 -0.7
 PTT 1.27 357 iPd 11 01.00 -0.8
 BUC1 1.36 194 ePd 11 22.50 19.8X
 COZ 1.56 258 ePc 11 05.50 0.7
 TNR 1.56 270 ePc 11 05.00 0.4
 IAS 1.69 25 iPd 11 06.00 0.1
 CVD 1.72 140 eP 11 13.00 6.8X
 DRA 1.87 239 iPc 11 07.00 -0.8
 PSN 2.32 148 iPc 11 13.00 0.1
 SRE 2.54 248 ePd 11 44.90 29.5X
 PVL 2.59 199 iPd 11 17.00 1.0
 BZS 3.42 271 ePc 11 25.50 -0.9
 PGB 3.54 209 iPd 11 28.00 0.1
 PLD 3.79 201 eP 11 30.00 -1.0
 VTS 3.88 219 iPc 11 32.00 -0.4
 KDZ 4.09 191 iPd 11 35.00 0.0
 RZN 4.18 199 iPd 11 36.00 -0.3
 MMB 4.55 207 iPd 11 41.00 0.1
 SKO 5.20 227 iP 11 49.40 0.0
 VAY 5.20 215 eP 11 49.30 0.0

NUR 14.91 356 eP 13 56.00 0.8
 HFS 16.37 337 eP 14 13.20 0.0
 0.4s 1.30nm 3.7mb
 NB2 17.82 335 P 14 28.30 -1.9
 0.7s 2.90nm 3.8mb
 YKA 67.79 342 eP 21 14.10 1.6
 0.5s 0.40nm 3.5mb
 S.D. = 0.8 on 26 of 30 obs.

& APR 01, 1991 10h 41m 46.17s
 61.189 N 151.236 W
 DEPTH = 54.7km
 SOUTHERN ALASKA (2)
 <AEIC>.

SUA 0.36 41 iPc 41 56.41 -0.1
 eS 42 05.87
 SPU 0.40 269 iPd 41 56.41 -0.4
 eS 42 05.11
 NKA 0.45 180 ePd 41 58.85 1.6
 eS 42 12.47
 CRP 0.45 280 iPd 41 57.17 -0.3
 NCG 0.49 296 iPd 41 57.47 -0.4
 CKL 0.53 271 iPd 41 57.81 -0.5
 BGL 0.56 278 iPd 41 58.19 -0.5
 eS 42 08.32
 PWA 0.80 54 iPc 42 01.36 -0.1
 SKT 0.81 350 iPd 42 00.70 -0.9
 PMS 0.81 85 iPc 42 01.36 -0.4
 RDT 0.84 223 iPc 42 01.31 -0.8
 eS 42 13.92
 SLKM 0.85 144 iPc 42 01.29 -0.9
 DFR 0.93 230 iPc 42 02.54 -0.8
 eS 42 16.04
 REF 1.00 226 ePc 42 03.67 -0.8
 eS 42 17.79
 RDN 1.01 228 ePc 42 03.44 -1.0
 eS 42 17.40
 NCT 1.04 234 iPc 42 04.25 -0.6
 RS2 1.04 226 ePc 42 04.18 -0.8
 eS 42 19.40
 RSO 1.04 226 ePc 42 04.16 -0.8
 eS 42 18.94
 RDW 1.05 228 ePc 42 04.31 -0.7
 eS 42 19.28
 RED 1.08 225 ePc 42 04.53 -0.8
 eS 42 19.80
 PLRM 1.09 67 iPc 42 04.62 -0.8
 eS 42 20.02
 >NNL 1.15 182 ePd 42 06.93 0.7
 GHO 1.25 61 iPc 42 07.02 -0.8
 eS 42 24.07
 CUT 1.30 20 iPc 42 07.35 -1.0
 KNK 1.36 79 ePc 42 08.40 -0.8
 SEW 1.40 140 eP 42 09.01 -0.7
 BRK 1.44 173 eP 42 09.44 -0.9
 S 42 28.52
 CNPM 1.67 180 ePd 42 12.57 -0.9
 KNIM 1.91 115 iPc 42 14.15 -2.8
 HUR 1.95 22 eP 42 17.04 -0.3
 LTI 2.03 123 eP 42 15.94 -2.5
 GLI 2.04 97 eP 42 15.78 -2.9
 SVW 2.13 270 ePc 42 17.80 -2.2
 MTU 2.14 123 eP 42 17.62 -2.5
 VZW 2.28 91 eP 42 20.33 -1.7
 VLZ 2.38 89 eP 42 21.11 -2.3
 RND 2.49 26 eP 42 24.74 -0.3
 KLU 2.58 81 eP 42 24.06 -2.3
 TOA 2.59 67 eP 42 25.30 -1.1
 SDG 3.01 61 eP 42 31.14 -1.4
 PAX 3.25 54 eP 42 34.38 -1.6
 41 obs. associated

? APR 01, 1991 10h 55m 19.70± 1.89s
 52.664 N ±37.3km 169.826 W ±16.6km
 DEPTH = 33.0km (normol)
 4.3mb (4 obs.)

FOX ISLANDS, ALEUTIAN ISLANDS (9)

ADK 4.28 262 eP 56 24.00 -0.2
 SDN 6.12 60 e(P) 56 51.00 0.9
 KLU 15.63 46 e(P) 58 57.00 -2.0
 FBA 16.63 34 e(P) 59 12.00 0.5
 INK 23.26 34 eP 00 25.00 0.5
 YKA 30.26 49 eP 01 29.20 -0.1
 0.5s 0.60nm 3.6mb
 KAF 64.86 352 eP 05 58.00 0.9

0.5s 2.80nm 4.6mb
 NB2 66.64 359 P 06 08.10 -0.5
 0.5s 1.00nm 4.2mb
 HFS 67.52 358 eP 06 14.00 -0.1
 0.4s 1.40nm 4.4mb
 S.D. = 1.0 on 9 of 9 obs.

? APR 01, 1991 11h 07m 35.77± 0.95s
 40.538 N ± 7.1km 22.750 E ± 9.7km
 DEPTH = 10.0km (geophysicist)

GREECE (364)

MD 2.2 (THE).

THE 0.19 60 ePd 07 40.10 0.1
 eS 07 43.42
 LIT 0.48 205 ePc 07 45.50 0.0
 eS 07 52.18
 GRG 0.49 328 ePc 07 45.98 0.2
 eS 07 52.82
 SOH 0.54 58 iPc 07 58.89 12.2X
 KNT 0.63 10 ePc 07 48.22 -0.3
 eS 07 57.54
 S.D. = 0.3 on 4 of 5 obs.

* APR 01, 1991 11h 12m 32.74± 0.82s
 41.121 N ± 7.7km 22.450 E ± 6.9km
 DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)

ML 2.0 (SKO). MD 2.3 (THE).

GRG 0.17 193 ePd 12 36.66 0.1
 eS 12 39.94
 VAY 0.22 24 iPg 12 37.40 -0.1
 iSg 12 40.30
 KNT 0.34 83 iPd 12 40.02 0.2
 eS 12 44.90
 SOH 0.75 113 ePc 12 47.18 -0.2
 eS 12 57.38
 FNA 0.88 248 ePd 12 49.70 0.0
 eS 13 01.18
 S.D. = 0.2 on 5 of 5 obs.

APR 01, 1991 11h 47m 07.77± 0.66s
 40.520 N ± 5.6km 22.777 E ± 5.3km
 DEPTH = 10.0km (geophysicist)

GREECE (364)

MD 2.2 (THE).

THE 0.18 52 ePc 47 12.18 0.3
 eS 47 15.46
 LIT 0.47 208 iPd 47 16.62 -0.8
 eS 47 23.78
 GRG 0.52 327 iPc 47 17.50 -0.8
 eS 47 25.10
 SOH 0.53 55 ePc 47 19.14 0.6
 iS 47 26.86
 KNT 0.65 8 ePc 47 20.38 -0.4
 eS 47 29.90
 VAY 0.82 349 ePn 47 22.40 -1.2
 SRS 0.86 46 ePc 47 24.42 0.1
 eS 47 38.30
 PAIG 0.91 130 ePd 47 24.94 -0.2
 eS 47 39.02
 FNA 1.10 284 ePc 47 28.66 0.2
 eS 47 43.54
 OHR 1.61 292 ePn 47 38.50 2.1
 S.D. = 1.0 on 10 of 10 obs.

% APR 01, 1991 11h 49m 54.11± 0.59s
 40.512 N ± 5.0km 22.740 E ± 5.0km
 DEPTH = 10.0km (geophysicist)

GREECE (364)

MD 2.4 (THE).

THE 0.21 55 ePc 49 58.36 -0.3
 eS 50 01.92
 LIT 0.45 205 ePc 50 02.92 -0.4
 eS 50 09.72
 GRG 0.51 330 ePd 50 04.16 -0.4
 iS 50 11.40
 SOH 0.56 56 ePc 50 05.64 0.1
 iS 50 13.72
 KNT 0.66 10 ePc 50 06.88 -0.4
 eS 50 15.92
 SRS 0.89 47 ePc 50 11.60 0.5
 eS 50 23.76
 PAIG 0.93 129 ePd 50 11.96 0.2

eS 50 24.64
 FNA 1.07 285 ePc 50 15.04 0.7
 eS 50 30.36
 S.D. = 0.5 on 8 of 8 obs.

? APR 01, 1991 12h 33m 31.40± 5.36s
 15.409 N ±47.8km 98.133 W ±13.7km
 DEPTH = 47.8 ± 22.0 km
 3.7mb (2 obs.)

OFF COAST OF GUERRERO, MEXICO (65)

OXX 2.14 39 iP 34 05.50 -0.1
 iS 34 32.00
 ACX 2.20 311 iP 34 06.25 0.0
 iS 34 30.00
 III 3.22 337 iP 34 20.25 -0.6
 iS 34 53.00
 IIT 3.60 357 eP 34 26.25 -0.1
 (S) 35 08.00
 IISM 3.63 11 iP 34 23.00 -3.6X
 (S) 35 09.50
 PPM 3.67 353 eP 34 22.50 -5.1X
 iS 35 06.00
 UNM 4.03 346 (P) 34 34.50 2.1X
 (S) 35 16.50
 CRX 4.24 340 (P) 34 36.50 1.0
 MRX 5.17 326 (P) 34 51.00 2.7X
 ALO 20.84 340 eP 38 10.70 -1.0
 1.0s 4.25nm 3.7mb
 YKA 48.45 350 eP 42 11.50 0.7
 0.9s 0.60nm 3.6mb
 S.D. = 1.0 on 7 of 11 obs.

APR 01, 1991 13h 01m 06.99± 0.52s
 0.153 S ± 5.3km 78.425 W ± 5.6km
 DEPTH = 17.3 ± 4.8 km
 4.6mb (6 obs.)

ECUADOR (107)

Felt (V) of Quito.

OUR 0.11 260 iPd 01 11.10 -0.1
 YANA 0.15 284 iP+ 01 12.00 0.3
 GGP 0.17 263 iPd 01 12.50 0.4
 VC1 0.48 178 iPd 01 15.90 -1.1
 COTA 0.49 10 iPd 01 17.30 0.1
 eS 01 47.50
 CAYA 0.50 62 iPd 01 16.50 -0.8
 eS 01 25.00
 QUIL 0.78 220 iP 01 21.50 -0.5
 ANGL 0.91 105 P 01 25.30 1.0
 S 01 38.40
 UPA 9.14 353 (P) 03 25.00 3.9X
 ZOBO 18.97 148 P 05 30.00 -0.6
 Z 16s 0.20um

LPB 19.20 148 P 05 35.00 1.8
 CNCB 19.49 149 P 05 37.70 0.8
 SIV 23.26 133 P 06 14.00 -0.7
 FVM 39.53 345 e(P) 08 37.40 -1.3
 ALO 43.64 326 eP 09 14.20 1.5
 0.9s 3.78nm 4.2mb
 GOL 46.68 331 ePd 09 38.90 2.0
 RSSD 49.64 336 ePd 09 00.60 0.7
 0.8s 6.01nm 4.7mb
 SES 57.52 336 eP 10 57.00 -0.7
 FFC 58.02 344 eP 11 00.00 -1.1
 0.7s 6.00nm 4.7mb
 NEW 58.70 331 eP 11 05.30 -0.7
 0.8s 8.33nm 4.9mb
 PNT 60.63 330 eP 11 20.00 0.8
 0.8s 6.00nm 4.8mb
 YKA 68.13 343 eP 12 06.00 -1.9
 0.8s 0.70nm 3.9mb
 INK 77.86 342 eP 13 05.00 0.1
 MBC 79.73 351 eP 13 15.00 0.0
 S.D. = 1.1 on 23 of 24 obs.

APR 01, 1991 13h 53m 02.76± 0.59s
 40.520 N ± 4.8km 22.705 E ± 5.0km
 DEPTH = 10.0km (geophysicist)

GREECE (364)

ML 2.1 (SKO). MD 2.5 (THE).

THE 0.23 60 ePd 53 07.18 -0.5
 eS 53 10.58
 LIT 0.45 202 ePc 53 11.38 -0.5
 eS 53 19.14

01d 13h

GRG 0.49 332 iPc 53 12.42 -0.4
 SOH 0.58 58 ePc 53 14.10 -0.4
 KNT 0.66 13 ePc 53 15.62 -0.3
 VAY 0.81 353 ePg 53 18.30 -0.1
 SRS 0.90 48 ePd 53 21.02 1.0
 PAIG 0.95 128 ePd 53 21.30 0.4
 FNA 1.04 285 iPc 53 23.21 0.7
 SKO 1.74 327 iPn 53 39.00 5.9X
 S.D. = 0.7 on 9 of 10 obs.

? APR 01, 1991 14h 05m 28.12±0.99s
 40.476 N ± 7.3km 22.729 E ± 11.2km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)

THE 0.24 49 ePd 05 33.24 0.0
 LIT 0.42 206 ePd 05 36.64 0.0
 GRG 0.54 333 ePc 05 39.12 0.0
 KNT 0.70 11 iPd 05 41.84 -0.1
 S.D. = 0.1 on 4 of 4 obs.

APR 01, 1991 14h 43m 19.29±0.61s
 16.956 N ± 8.9km 94.204 W ± 6.9km
 DEPTH = 146.9 ± 6.5 km
 4.6mb (15 obs.)
 OAXACA, MEXICO (60)

SCX 1.52 98 iP 43 49.75 0.6
 OXX 2.41 273 iP 43 58.50 -1.4
 TPX 2.77 137 (P) 44 10.50 6.4X
 IISM 3.63 304 iP 44 13.50 -1.8
 IIT 4.41 298 iP 44 26.50 0.5
 PPM 4.70 297 iP 44 30.50 0.4
 III 5.21 287 iP 44 36.00 -0.6
 UNM 5.29 297 (P) 44 50.00 12.3X
 ACX 5.41 270 iP 44 55.00 -3.6X
 CRX 5.75 296 (P) 44 38.00 -5.9X
 MRX 7.18 293 iP 45 04.00 1.1
 CGX 9.21 289 eP 45 32.00 1.8
 TUL 18.93 356 eP 47 32.00 0.6
 LRM 32.56 336 eP 49 39.60 0.9
 FFC 38.17 353 iPc 50 25.50 -0.3
 PNT 38.29 333 eP 50 29.00 2.1
 ZOBO 41.85 141 P 50 57.00 -0.1
 CNCB 42.35 141 P 51 02.00 0.8
 SIV 46.25 133 P 51 31.00 -0.8
 YKA 47.69 347 eP 51 40.70 -1.7
 FRB 49.96 15 eP 51 58.00 -1.8
 INK 57.02 344 ePd 52 51.60 0.1
 MBC 60.74 353 ePc 53 16.40 -0.7
 DAG 70.28 14 eP 54 16.00 -2.0
 EKA 76.83 36 P 54 56.00 -0.2
 LPF 79.67 43 eP 55 11.50 -0.3
 GRR 79.70 43 eP 55 11.90 -0.1
 FLN 79.85 42 eP 55 13.00 0.2
 LDF 80.12 42 eP 55 14.40 0.1
 NB2 82.57 28 P 55 27.60 0.8
 DOU 82.68 40 P 55 28.00 0.5
 AVF 82.87 43 eP 55 27.90 -0.7
 SSF 82.89 43 eP 55 28.40 -0.3

LOR 1.1s 11.00nm 4.6mb
 LBF 83.06 43 eP 55 29.40 -0.2
 SMF 83.22 43 eP 55 30.00 -0.5
 MEM 83.38 39 P 55 31.70 0.6
 APO 83.99 28 eP 55 34.50 0.5
 HAU 84.43 42 eP 55 36.80 0.3
 ABH 84.55 40 eP 55 37.64 0.6
 BSF 84.77 42 eP 55 38.30 0.0
 CDF 84.88 41 eP 55 39.10 0.3
 KHC 88.48 39 eP 55 57.50 1.3
 NUR 88.66 26 eP 55 43.00 -13.8X
 ZST 90.99 39 eP 56 09.60 1.7
 STK 127.59 243 ePKP 02 29.10 20.1X
 WB2 133.97 258 ePKP 02 21.30 -0.1
 WRA 133.98 258 PKP 02 21.00 -0.4
 HYB 145.11 12 ePKP 02 40.50 -1.1
 S.D. = 1.0 on 43 of 49 obs.

APR 01, 1991 15h 16m 22.68±0.70s
 40.523 N ± 4.9km 22.697 E ± 6.7km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)

THE 0.23 62 ePc 16 27.04 -0.6
 LIT 0.45 201 ePc 16 31.64 -0.2
 GRG 0.49 333 ePd 16 32.24 -0.4
 SOH 0.58 59 iPd 16 34.52 0.0
 KNT 0.66 13 ePc 16 35.76 0.0
 VAY 0.80 353 ePn 16 39.00 0.7
 PAIG 0.96 128 ePd 16 41.36 0.4
 S.D. = 0.6 on 7 of 7 obs.

APR 01, 1991 16h 54m 28.27±1.09s
 6.076 S ± 4.3km 147.661 E ± 5.9km
 DEPTH = 69.7 ± 10.5 km
 5.5mb (19 obs.)

EAST PAPUA NEW GUINEA REGION (207)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 34C
 Centroid Location:
 Origin Time 16:54:30.7 0.3
 Lat 6.17S 0.04 Lon 147.95E 0.03
 Dep 34.5 3.6 Half-duration 2.5
 Moment Tensor: Scale 10¹⁷ Nm
 Mrr=-0.28 0.05 Mlt=-0.78 0.09
 Mff=1.06 0.09 Mrt=0.79 0.15
 Mrf=0.33 0.16 Mtf=2.30 0.07
 Principal Axes:
 T Vol= 2.78 Plg=13 Azm=305
 N -0.35 71 80
 P -2.44 13 212
 Best Double Couple: Mo=2.6×10¹⁷
 NP1: Strike=349 Dip=71 Slip=180
 NP2: 79 90 19

YYYY 1.69 264 iP 54 58.30 1.9
 MNDI 3.98 269 eP 55 33.50 5.1X
 RAB 4.87 68 iPd 55 36.00 -4.7X
 SVO 12.43 105 eP 57 25.00 0.9
 HNR 12.62 106 eP 57 25.00 -1.7
 CTA 14.00 185 iPc 57 44.70 0.0
 OIS 16.38 208 eP 58 13.00 -2.3
 WB2 18.90 222 iPc 58 44.00 -2.3
 0.5s 174.20nm 5.5mb
 eS 02 10.50

GUA 19.68 352 eP 58 55.50 0.9
 PJG 19.73 352 eP 58 55.30 0.1
 RMO 20.33 177 iPd 58 59.90 -1.4
 OLP 20.65 189 iPd 59 05.70 1.1
 KNA 20.88 241 eP 59 06.00 -0.9
 ASPA 21.94 216 iPd 59 17.60 0.1
 Z 21s 166.90nm 5.6mb
 6.90um 5.0msz
 PVC 23.26 122 iPc 59 32.30 1.8
 DZM 24.13 133 iPc 59 37.50 -1.5
 KUPT 24.15 259 ePc 59 32.50 -6.7X
 COO 24.70 171 eP 59 45.00 0.7
 CMS 25.34 184 eP 59 51.00 0.7
 STK 26.29 192 eP 00 18.50 19.4X
 WARB 28.33 223 eP 00 18.00 0.3
 CNB 29.14 177 eP 00 25.00 0.1
 ADE 29.91 195 eP 00 31.00 -0.8
 FORR 30.73 214 iPd 00 28.90 -10.1X
 MBL 30.84 238 iPc 00 40.10 0.0
 TSM 31.27 288 eP 00 50.00 6.1X
 BFD 31.31 188 eP 00 44.00 0.0
 TOO 31.41 183 eP 00 45.00 0.0
 MEKA 34.46 230 eP 01 11.50 0.0
 BAG 34.89 310 eP 01 11.50 -4.0X
 COOL 35.04 222 eP 01 16.10 -0.4
 TAU 36.68 180 eP 01 31.00 0.9
 KLB 37.77 224 iPd 01 39.70 0.3
 BAL 37.95 226 eP 01 41.00 0.1
 NWA0 38.92 223 eP 01 49.00 0.0
 Z 20s 27.00nm 5.4mb
 N 20s 5.20um 5.4msz
 E 20s 3.90um
 MUN 39.07 225 eP 01 50.70 0.4
 RKG 39.75 221 iPc 01 59.70 3.8X
 CHJJ 42.68 350 P 02 20.20 0.3
 MAT 43.31 349 eP 02 25.00 0.0
 Z 1.5s 97.22nm 5.4mb
 20s 1.06um 4.7msz
 MTMJ 43.43 348 P 02 26.80 0.8
 NIJJ 43.84 350 P 02 30.10 0.9
 SSE 44.80 327 eP 02 37.50 0.5
 Z 20s 1.40um 4.9msz
 N 16s 0.60um
 E 16s 1.00um
 PP 02 48.50
 SS 09 40.00
 KGM 45.00 279 eP 02 40.00 1.1
 NJ2 46.81 326 Pd 02 53.40 0.5
 Z 22s 0.60um 4.5msz
 IPM 47.75 282 ePd 03 04.90 4.2X
 WHN 48.41 321 eP 03 06.50 1.1
 SNG 48.75 285 eP 03 30.00 21.7X
 TIA 50.89 328 eP 03 23.00 -1.3
 Z 20s 1.10um 4.9msz
 E 16s 1.40um
 NST 51.79 295 eP 03 50.00 18.6X
 KHT 52.87 294 eP 03 39.50 -0.1
 MDJ 53.02 344 eP 03 39.30 -0.9
 Z 24s 1.00um 4.8msz
 BDT 53.36 297 eP 04 01.00 17.9X
 CN2 53.55 340 eP 03 43.40 -0.7
 KMI 53.57 307 eP 03 54.00 9.2X
 Z 24s 1.30um 4.9msz
 eS 11 20.00
 8JI 54.29 330 eP 03 48.50 -1.1
 1.0s 9.00nm 4.8mb

Z	21s	0.91um	4.8Msz	
		eS	11 24.00	
TIY	54.54	326 eP	03 49.00	-2.6
Z	28s	1.49um	4.9MszX	
N	17s	1.10um		
CD2	55.80	314 eP	04 00.00	-0.8
Z	19s	0.80um	4.8Msz	
HHC	57.24	328 eP	04 10.40	-0.6
Z	30s	1.60um	4.9MszX	
BTO	57.90	327 eP	04 14.00	-1.5
N	15s	0.70um		
E	15s	0.40um		
LZH	58.70	319 Pd	04 20.50	-0.8
Z	20s	32.00nm	5.1mb	
N	12s	1.25um	4.9MszX	
		0.28um		
GTA	63.22	320 eP	12 27.00	-0.2
	0.8s	10.00nm	4.9mb	
Z	20s	0.60um	4.8Msz	
		PP	05 06.00	
		SP	05 14.00	
LSA	64.81	307 eP	05 05.40	2.6
GUN	68.46	303 P	05 25.40	-0.4
PKI	68.74	303 P	05 27.88	0.3
KKN	68.92	303 P	05 28.92	0.4
DMN	69.01	302 P	05 29.90	0.8
YAK	69.30	351 eP	05 28.80	-1.0
		e	14 34.00	
GKN	69.53	303 P	05 31.94	-0.2
KOD	71.75	283 eP	05 38.00	-8.0X
HYB	72.10	290 eP	05 49.00	1.3
WMO	73.28	319 eP	05 53.60	-0.6
NDI	75.98	301 eP	06 19.00	9.1X
POO	76.71	291 eP	05 58.00	-16.2X
SVW	80.03	24 eP	06 58.30	26.8X
IMA	83.40	21 eP	06 50.00	0.9
SPA	83.96	180 iPd	06 54.50	2.5
	1.5s	54.55nm	5.4mb	
		i	07 27.30	
QUE	85.05	301 eP	06 58.00	-0.2
YKA	98.93	28 eP	08 00.80	-1.1
	0.9s	0.60nm	4.1mb X	
FRB	116.81	17 ePKP	13 04.00	-1.9
CNCB	138.06	123 PKP	13 41.00	-7.7X
		e	17 27.00	
LPB	138.10	123 PKP	13 50.00	1.4
ZOBO	138.21	123 PKP	13 41.00	-8.0X
	1.1s	13.05nm		
		i	13 51.00	
		LR	00 52.00	
SIV	144.09	128 PKP	13 56.00	-2.6X
AVE	144.37	323 ePKP	14 08.00	9.4X
TIO	145.87	320 iPKP	14 08.00	6.5X
		i	14 13.50	
PPD	146.45	147 ePKP	14 04.40	1.9
VAO	147.75	154 ePKP	14 07.80	3.2X
BMA	149.16	158 ePKP	14 23.00	16.2X
KIC	152.56	272 PKP	14 21.88	9.9X
BAO	153.44	144 e(PKP)	14 13.00	-0.3
S.D. = 1.1 on 65 of 90 obs.				
* APR 01, 1991 17h 16m 41.81 ± 2.02s				
33.362 S ± 11.0km 70.509 W ± 9.6km				
DEPTH = 91.6 ± 21.1 km				
CHILE-ARGENTINA BORDER REGION (127)				
Felt (11) in the Santiago area.				
SAN	0.16	234 iPc	16 55.20	0.0
		iS	17 06.60	
PCH	0.26	181 iPc	16 55.60	0.1
		iS	17 07.20	
PEL	0.26	326 iPc	16 55.80	0.3
		iS	17 07.50	
TACH	0.46	231 iPc	16 56.40	-0.3
		iS	17 10.00	
ROCH	0.57	313 iPc	16 58.00	0.2
		iS	17 11.50	
JACH	0.68	354 iP	16 58.10	-0.5
		iS	17 11.70	
LCC	0.89	262 iP	17 01.10	0.4
		iS	17 17.00	
LNV	0.96	232 iPc	17 01.10	-0.3
		iS	17 17.50	
MDZ	1.47	72 iP	17 07.90	0.2
		iS	17 25.10	
S.D. = 0.4 on 9 of 9 obs.				

APR 01, 1991 18h 26m 34.10 ± 0.33s
 39.880 N ± 4.7km 143.621 E ± 5.1km
 DEPTH = 28.0km (4 depth phases)
 4.8mb (29 obs.) 4.3Msz (3 obs.)
 OFF EAST COAST OF HONSHU, JAPAN (229)

OFUJ	1.71	243 iP+	27 02.90	0.5
		eS	27 23.20	
HOOJ	2.51	354 P	27 13.00	-0.9
		eS	27 41.80	
AOMJ	2.58	286 P	27 15.70	0.9
MRRJ	3.19	324 eP	27 23.60	0.1
		eS	28 01.90	
YAMJ	3.27	240 P	27 25.20	0.5
KUSJ	3.32	14 P	27 23.00	-2.3
		eS	28 00.40	
ASAJ	4.30	351 eP	27 38.60	-0.6
NIJ	4.48	235 P	27 42.30	0.5
KAKJ	4.57	218 P	27 41.40	-1.7
CHJJ	5.29	225 P	27 52.30	-1.0
MAT	5.41	234 iPc	27 55.50	0.5
	1.0s	85.00nm	5.3mb	
		eS	28 59.00	
MTMJ	5.64	236 P	27 59.20	0.9
IIDJ	6.31	228 P	28 07.90	0.2
TSRJ	7.44	237 P	28 25.70	2.1
MDJ	11.42	299 eP	29 17.30	-1.1
	1.0s	69.00nm	5.8mb X	
Z	16s	2.60um		
		SP	29 32.00	
CN2	14.10	292 eP	29 49.00	-5.0X
	1.0s	10.00nm	4.5mb	
Z	17s	2.60um		
N	13s	1.40um		
E	13s	0.50um		
		eS	32 35.00	
SNY	15.29	284 eP	30 07.40	-2.2
Z	16s	1.70um		
N	13s	1.00um		
E	14s	0.90um		
DL2	17.03	274 eP	30 33.00	1.3
	N	13s	1.17um	
		eS	33 40.00	
SSE	20.22	251 Pd	31 10.50	0.9
	1.5s	31.00nm	4.4mb	
Z	16s	0.90um	4.2MszX	
N	14s	1.07um		
E	14s	0.70um		
		PP	31 16.50	
		SP	31 23.50	
BJI	21.01	279 eP	31 13.00	-4.7X
	1.5s	39.00nm	4.6mb	
Z	17s	0.93um	4.2MszX	
N	14s	1.02um		
TIA	21.16	268 eP	31 15.60	-3.6X
Z	14s	2.00um	4.7MszX	
E	15s	1.50um		
		eS	35 12.00	
NJ2	21.47	256 Pd	31 18.40	-3.9X
Z	18s	0.60um	4.0Msz	
N	12s	1.00um		
YAK	23.73	344 iP	31 42.70	-1.7
		eP	32 05.00	104kmX
		ePP	32 16.00	
		ePPP	32 31.00	
		eS	35 54.00	
		e	36 24.00	
		eSS	36 41.00	
TIY	24.34	275 eP	31 50.30	-0.4
Z	20s	0.88um	4.2Msz	
N	15s	0.81um		
HHC	24.38	283 eP	31 49.20	-1.8
Z	18s	1.70um	4.6Msz	
E	16s	1.80um		
WHN	25.57	258 P	32 02.50	0.2
	1.2s	50.00nm	5.0mb	
Z	16s	1.30um	4.5MszX	
N	13s	1.00um		
BTO	25.58	283 eP	32 02.00	-0.4
N	14s	0.60um		
E	14s	1.00um		
		ePP	32 43.00	
LZH	31.40	276 iPd	32 55.40	0.4
	1.5s	37.00nm	5.0mb	
Z	15s	1.01um	4.6MszX	
E	14s	0.82um		

		PP	33 03.50	
		SP	33 07.50	
GYA	33.46	258 P	33 12.20	-0.8
CD2	33.48	267 eP	33 11.50	-1.5
GTA	33.48	284 P	33 13.00	-0.1
	1.0s	20.00nm	5.0mb	
Z	16s	1.50um	4.8MszX	
E	14s	1.10um		
		PP	33 21.00	
		SP	33 29.00	
		eS	38 38.00	
KMI	37.15	259 eP	33 44.00	-0.6
	2.0s	60.00nm	5.1mb	
WMO	41.17	294 P	34 18.20	0.6
LSA	43.73	273 P	34 40.00	0.9
FBA	45.78	34 eP	34 57.20	2.7
	1.0s	2.30nm	4.1mb	
GUN	48.64	274 P	35 17.88	0.0
KKN	49.16	275 P	35 21.70	0.0
PKI	49.17	274 P	35 21.50	-0.4
DMN	49.38	274 P	35 23.56	0.1
GKN	49.54	275 P	35 24.46	-0.2
INK	51.07	28 eP	35 36.00	0.5
MBG	53.30	17 eP	35 52.50	0.3
HYB	60.02	268 eP	36 45.00	4.1X
WB2	60.14	190 iPc	36 39.80	-1.6
	0.6s	8.20nm	5.0mb	
WRA	60.14	190 P	36 40.00	-1.4
	0.6s	8.30nm	5.0mb	
YKA	60.48	31 eP	36 42.30	-1.0
	0.5s	0.70nm	4.0mb	
QUE	61.76	287 eP	36 52.30	-0.5
SOD	63.02	337 eP	37 07.00	6.7X
GBA	63.17	265 P	36 59.90	-2.1
	0.8s	5.60nm	4.7mb	
ASPA	63.86	190 iPd	37 06.10	-0.2
	1.4s	5.50nm	4.5mb	
NEW	66.90	46 eP	37 25.00	-0.8
	1.0s	3.25nm	4.4mb	
NUR	68.25	332 eP	37 40.00	6.1X
FFC	70.38	34 eP	37 47.00	-0.1
	0.6s	6.00nm	4.9mb	
UPP	71.15	334 iP	37 52.70	1.0
HFS	72.20	336 eP	37 57.40	-0.6
	0.4s	1.20nm	4.3mb	
NB2	72.22	338 P	37 57.50	-0.7
	0.9s	6.30nm	4.6mb	
FRB	73.60	14 eP	38 06.00	-0.1
BW06	74.44	47 eP	38 11.90	0.2
	1.1s	2.98nm	4.2mb	
KRA	77.69	327 eP	38 30.20	0.7
		e	38 38.90	28km
KSP	78.58	329 eP	38 34.00	-0.4
CLL	79.47	331 iPc	38 39.60	0.4
	1.3s	17.00nm	4.9mb	
PRU	79.94	329 eP	38 42.50	0.7
		e	38 51.50	29km
		e	38 56.00	
KHC	81.01	329 P	38 48.00	0.5
		e	38 57.00	29km
ANMO	81.45	51 eP	38 50.10	-0.1
	1.1s	6.65nm	4.6mb	
GRF	81.45	331 eP	38 51.00	1.2
		e	38 59.60	27km
KBA	82.75	328 eP	38 58.00	1.2
	1.0s	5.40nm	4.6mb	
CDF	83.96	332 eP	39 03.10	0.3
HAU	84.63	333 eP	39 06.40	0.3
LOR	86.12	334 eP	39 14.10	0.5
	0.9s	6.55nm	4.9mb	
LBF	86.33	334 eP	39 14.80	0.1
	1.1s	12.20nm	5.0mb	
SSF	86.42	334 eP	39 15.60	0.6
LPL	86.61	331 eP	39 17.10	0.8
LPG	86.62	331 eP	39 17.00	0.6
	0.9s	4.90nm	4.7mb	
SMF	86.67	334 eP	39 16.80	0.5
	1.2s	8.95nm	4.9mb	
AVF	86.71	334 eP	39 17.00	0.6
	1.1s	18.30nm	5.2mb	
LPF	87.02	337 eP	39 19.00	1.1
MAF	87.47	334 eP	39 21.40	1.2
	1.1s	9.75nm	5.0mb	
LSF	87.79	335 eP	39 22.50	0.8
	1.0s	8.00nm	5.0mb	
CAF	88.78	334 eP	39 27.70	1.2
ZOBO	143.74	59 ePKP	46 07.00	-2.2

01d 18h

CNCB 144.22 59 PKP 46 10.00 0.0
SIV 147.92 49 PKP 46 16.60 1.2
S.D. = 1.0 on 75 of 82 obs.

APR 01, 1991 18h 34m 36.22 ± 0.74s
39.859 N ± 5.0km 143.682 E ± 7.1km
DEPTH = 20.6 ± 3.9 km
4.7mb (15 obs.)

OFF EAST COAST OF HONSHU, JAPAN (229)

OFUJ 1.74 244 iP+ 35 06.40 0.8
eS 35 26.80
HOOJ 2.54 353 P 35 16.50 -0.5
eS 35 45.10
AOMJ 2.63 287 P 35 18.90 0.6
MRRJ 3.23 323 eP 35 27.60 0.7
eS 36 03.90
YAMJ 3.30 240 iP+ 35 28.60 0.7
KUSJ 3.33 13 P 35 26.60 -1.6
eS 36 02.30
ASAJ 4.33 350 P 35 42.10 -0.3
NIJJ 4.51 236 P 35 46.10 1.1
KAKJ 4.58 218 P 35 45.10 -0.9
S 36 35.80
CHJJ 5.31 226 P 35 55.90 -0.4
S 36 55.50
MAT 5.44 234 iPc 35 58.90 0.7
1.1s 75.95nm 5.2mb
eS 37 24.00
MTMJ 5.66 237 P 36 02.30 0.8
IDJ 6.33 228 P 36 11.30 0.5
MDJ 11.47 299 eP 37 21.00 -0.9
PP 37 29.80
SSE 20.26 251 P 39 12.70 -0.3
Z 16s 0.44um 3.9mszX
BJI 21.06 279 eP 39 13.00 -8.2X
1.0s 9.00nm 4.1mb
TIA 21.20 269 eP 39 20.20 -2.5
NJ2 21.51 257 Pc 39 23.50 -2.3
YAK 23.76 344 iP 39 47.60 -0.1
TIY 24.39 275 eP 39 54.00 -0.2
HHC 24.43 283 eP 39 52.80 -1.8
WHN 25.61 258 Pd 40 06.20 0.5
1.0s 30.00nm 4.9mb
PP 40 11.00
BTO 25.63 283 eP 40 06.50 0.5
LZH 31.45 276 eP 40 58.00 -0.5
1.5s 28.00nm 4.9mb
PP 41 07.20
SP 41 11.00
GYA 33.50 258 P 41 17.00 0.5
CD2 33.52 267 eP 41 15.10 -1.4
Z 14s 1.30um 4.8mszX
N 11s 1.00um
GTA 33.53 284 Pc 41 16.60 0.0
1.0s 10.00nm 4.7mb
Z 13s 0.60um 4.5mszX
E 10s 0.40um
PP 41 24.60
WMO 41.23 294 P 42 21.20 0.0
LSA 43.77 273 P 42 43.80 1.2
GUN 48.68 274 P 43 21.34 -0.1
KKN 49.20 275 P 43 25.12 -0.1
0.9s 29.00nm 5.3mb
PKI 49.21 274 P 43 24.90 -0.6
0.8s 8.00nm 4.8mb
DMN 49.43 274 P 43 27.10 0.1
GKN 49.59 275 P 43 27.74 -0.4
INK 51.06 28 eP 43 39.00 0.4
MBC 53.31 17 eP 44 03.00 -7.6X
WB2 60.13 190 iPd 44 43.80 -0.7
0.6s 3.70nm 4.7mb
eScP 48 19.40
eS 51 46.40
WRA 60.13 190 P 44 43.00 -1.5
0.6s 2.70nm 4.6mb
YKA 60.47 31 eP 44 45.70 -0.8
0.8s 1.00nm 4.0mb
QUE 61.81 287 eP 44 55.40 -0.9
SOD 63.05 337 eP 45 04.00 0.3
UPP 71.19 334 iP 45 55.30 0.2
i 46 04.10
HFS 72.24 336 eP 46 00.20 -1.2
0.6s 1.00nm 4.0mb
NB2 72.26 338 P 46 01.20 -0.4
0.7s 4.00nm 4.6mb
FRB 73.61 14 eP 46 09.00 -0.3

KSP 78.62 329 eP 46 38.00 0.2
BRG 79.51 330 e(P) 46 42.50 -0.1
CLL 79.51 331 eP 46 48.00 5.4X
PRU 79.98 329 eP 46 46.50 1.3
Z 16s 0.50um 5.0mszX
e 46 54.50
KHC 81.05 329 eP 46 52.00 1.1
e 47 00.00
GRF 81.49 331 eP 46 54.80 1.6
e 47 02.50
LOR 86.16 334 eP 47 17.40 0.4
0.8s 5.35nm 4.8mb
LBF 86.37 334 eP 47 18.30 0.2
SSF 86.46 334 eP 47 19.00 0.6
LPL 86.65 331 eP 47 20.50 0.8
LPG 86.66 331 eP 47 20.60 0.8
AVF 86.75 334 eP 47 20.50 0.7
0.9s 6.55nm 4.9mb
MAF 87.51 334 eP 47 24.80 1.2
1.1s 6.10nm 4.8mb
LSF 87.83 335 eP 47 25.90 0.8
S.D. = 0.9 on 56 of 59 obs.

APR 01, 1991 18h 52m 40.45 ± 0.61s
34.579 N ± 8.1km 27.707 E ± 6.8km
DEPTH = 70.6 ± 9.1 km
4.1mb (9 obs.)

EASTERN MEDITERRANEAN SEA (371)
MD 4.4 (ATH).

NPS 1.85 292 ePn 53 13.50 2.9
CIN 3.03 6 iPd 53 27.00 0.0
PPCY 3.83 84 eP 53 39.00 0.8
VLI 4.43 300 ePn 53 45.60 -1.1
eSn 54 31.50
CSS 4.64 84 eP 53 49.50 -0.2
eSn 54 41.50
HLW 5.62 146 ePn 54 04.00 0.6
eSn 55 03.50
ADI 6.43 101 eP 54 21.00 6.3X
ATZ 6.54 103 eP 54 23.00 6.8X
eS 55 30.00
BBTK 6.62 36 eP 54 46.00 28.7X
VLS 6.77 304 ePn 54 17.50 -1.8
eSn 55 28.00
DSI 7.10 113 eP 54 28.00 4.1X
eS 55 42.00
MBH 7.74 126 eP 54 37.00 4.2X
HDL 8.18 128 eP 54 38.33 -0.4
OHR 8.50 322 eP 54 42.00 -1.3
BADA 8.67 132 eP 54 44.33 -1.1
SKO 8.87 328 eP 54 49.00 0.8
i 55 01.80
KBA 16.52 323 eP 56 28.50 -0.6
1.1s 11.60nm 4.0mb
KHC 17.90 329 eP 56 45.20 -0.8
e 56 53.00
LPG 18.25 336 eP 56 50.00 -0.3
LPL 19.34 311 eP 57 03.00 -0.1
RSL 19.36 311 eP 57 03.20 -0.1
CLL 19.51 311 P 57 04.20 -0.5
19.82 332 eP 57 09.00 1.2
1.4s 9.00nm 3.9mb
LBF 21.73 312 eP 57 27.60 0.3
0.9s 9.85nm 4.2mb
LOR 21.93 312 eP 57 29.60 0.4
0.9s 7.35nm 4.1mb
SSF 22.05 312 eP 57 30.00 -0.4
1.0s 14.00nm 4.3mb
BGF 22.25 310 eP 57 31.60 -0.8
1.1s 17.10nm 4.4mb
MEM 22.50 322 P 57 39.20 4.5X
DOU 22.94 320 P 57 42.30 3.3X
LDF 24.92 313 eP 57 58.60 0.5
FLN 25.20 313 eP 58 01.40 0.6
LPP 25.26 311 eP 58 02.00 0.6
GRR 25.28 312 eP 58 01.70 0.1
0.7s 7.70nm 4.3mb
HFS 27.15 345 eP 58 19.50 0.9
0.4s 0.90nm 3.7mb
YKA 78.63 343 eP 04 38.10 2.4X
0.7s 0.50nm 3.6mb
S.D. = 1.0 on 27 of 35 obs.

APR 01, 1991 19h 11m 52.70 ± 0.65s
42.418 N ± 5.5km 19.292 E ± 5.0km
DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)
ML 2.1 (TTG).

TTG 0.03 297 iPgc 11 56.38 1.7
iSg 11 59.15
BDV 0.37 249 iPgc 12 00.47 0.2
iSg 12 06.80
NKY 0.45 331 iPgc 12 01.67 -0.2
iSg 12 09.10
ULC 0.46 184 iPgc 12 01.92 -0.1
iSg 12 09.43
PVY 0.53 70 iPg 12 03.63 0.1
iSg 12 12.18
HCY 0.59 273 iPg 12 03.98 -0.6
iSg 12 13.38
IVA 0.64 44 iPg 12 05.33 -0.2
iSg 12 15.22
BRY 0.73 311 iPg 12 06.38 -0.8
iSg 12 17.47
PLE 0.91 5 iPg 12 10.22 0.0
S.D. = 0.8 on 9 of 9 obs.

APR 01, 1991 19h 16m 16.32 ± 2.37s
38.385 N ± 20.6km 21.989 E ± 14.3km
DEPTH = 10.0km (geophysicist)

GREECE (364)
MD 3.1 (ATH).

AGG 0.69 23 ePd 16 29.96 0.0
eS 16 36.56
VLS 1.12 260 ePb 16 36.80 -0.5
eSb 16 51.00
IGT 1.73 312 ePc 16 48.32 1.8
iS 17 08.84
LIT 1.76 13 ePc 16 46.28 -0.7
KZN 1.93 355 ePn 16 48.00 -1.5
PAIG 2.02 40 ePd 16 51.24 0.4
FNA 2.44 349 ePd 16 56.08 -0.8
eS 17 23.28
GRG 2.59 7 ePc 16 58.72 -0.2
KNT 2.86 14 ePc 17 02.36 -0.5
OHR 2.87 342 ePn 17 02.70 -0.3
VAY 2.97 8 ePn 17 06.70 2.4
S.D. = 1.3 on 11 of 11 obs.

APR 01, 1991 19h 34m 39.56 ± 0.46s
40.680 N ± 4.1km 23.359 E ± 4.0km
DEPTH = 10.0km (geophysicist)

GREECE (364)
ML 2.1 (SKO).

SOH 0.14 358 ePd 34 43.02 0.1
iS 34 45.06
THE 0.30 261 iPd 34 45.86 0.0
eS 34 49.94
SRS 0.47 22 iPc 34 48.54 -0.6
iS 34 54.82
OUR 0.59 126 ePd 34 51.34 -0.1
KNT 0.60 324 iPc 34 51.06 -0.5
eS 34 59.02
GRG 0.78 291 iPc 34 54.34 -0.4
eS 35 06.02
PAIG 0.79 162 ePc 34 53.94 -1.0
iS 35 04.94
VAY 0.88 317 iPg 34 56.40 0.0
iSg 35 08.40
LIT 0.88 229 ePc 34 56.90 0.4
eS 35 07.02
MMB 0.95 17 iPgc 34 57.00 -0.7
RZN 1.44 45 iPc 35 07.00 1.2
FNA 1.51 275 ePd 35 07.62 0.9
KDZ 1.83 57 eP 35 12.00 0.7
S.D. = 0.7 on 13 of 13 obs.

APR 01, 1991 20h 13m 21.54 ± 2.29s
17.966 N ± 13.4km 101.286 W ± 20.0km
DEPTH = 33.0km (normal)
3.1mb (1 obs.)

NEAR COAST OF GUERRERO, MEXICO (58)

MRX 1.73 3 iP 13 49.75 0.0
iS 14 14.50
ACX 1.75 128 iP 13 50.00 0.0
iS 14 12.00
III 1.78 76 iP 13 50.50 -0.1
iS 14 16.50
CRX 2.09 46 (P) 13 40.50 -14.7X

PPM 2.75 66 iP 14 04.75 0.0
 IIT 3.01 69 (P) 14 11.50 3.1X
 IISM 3.85 74 eP 14 20.00 0.1
 OXX 4.44 101 (P) 14 41.50 12.9X
 YKA 45.45 351 eP 21 45.50 6.6X

0.4s 0.10nm 3.1mb
 S.D. = 0.1 on 5 of 9 obs.

APR 01, 1991 21h 00m 58.61 ± 0.62s
 40.513 N ± 5.0km 22.729 E ± 5.3km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)

THE 0.22 56 ePc 01 02.84 -0.4
 eS 01 06.12
 LIT 0.45 204 ePc 01 07.20 -0.6
 eS 01 14.36
 GRG 0.51 331 iPd 01 08.32 -0.6
 eS 01 16.32
 SOH 0.57 57 iPd 01 09.76 -0.4
 eS 01 17.16
 KNT 0.66 11 ePc 01 11.12 -0.7
 eS 01 20.48
 VAY 0.82 352 ePn 01 14.70 0.3
 SRS 0.89 47 ePc 01 16.84 1.1
 eS 01 28.48
 PAIG 0.93 128 ePd 01 16.76 0.3
 eS 01 29.48
 FNA 1.06 285 ePc 01 19.56 0.9
 eS 01 34.68

S.D. = 0.8 on 9 of 9 obs.

APR 01, 1991 22h 21m 15.12 ± 0.51s
 13.654 N ± 11.6km 120.581 E ± 16.2km
 DEPTH = 33.0km (normal)
 4.5mb (6 obs.)
 MINDORO, PHILIPPINE ISLANDS (250)

BJI 26.57 352 eP 26 52.50 0.6
 1.0s 9.00nm 4.3mb
 CN2 30.33 7 eP 27 09.80 -16.1X
 GUN 35.27 299 P 28 09.80 0.4
 PKI 35.57 298 P 28 11.80 -0.2
 KKN 35.74 299 P 28 13.20 -0.1
 WB2 36.03 158 iPd 28 15.20 -0.3
 0.4s 6.50nm 4.9mb
 ASPA 39.31 161 eP 28 43.50 0.5
 0.6s 5.10nm 4.5mb
 SOD 79.03 337 eP 33 00.00 -17.1X
 KAF 80.04 332 iP 33 22.40 -0.3
 0.4s 2.50nm 4.6mb
 MBC 83.62 12 eP 33 41.00 -0.1
 UPP 84.69 330 iP 33 47.40 0.7
 KRA 86.35 321 eP 33 56.00 0.8
 HFS 86.46 331 eP 33 54.70 -0.8
 0.7s 2.20nm 4.5mb
 NB2 87.25 333 P 33 58.40 -1.0
 0.7s 2.80nm 4.6mb

S.D. = 0.6 on 12 of 14 obs.

APR 01, 1991 22h 23m 46.68 ± 0.36s
 43.204 N ± 7.4km 145.534 E ± 6.1km
 DEPTH = 70.3km (7 depth phases)
 4.6mb (16 obs.)
 HOKKAIDO, JAPAN REGION (224)

NIJ 7.77 222 P 25 39.20 -0.2
 KAKJ 8.12 212 P 25 41.30 -2.8
 S 27 08.20
 MAT 8.71 223 eP 25 52.00 -0.3
 0.9s 10.92nm 4.7mb
 CHJJ 8.74 217 P 25 54.10 1.4
 S 27 24.10
 MDJ 11.59 282 eP 26 31.50 0.2
 SNY 16.24 273 Pc 27 32.00 0.3
 YAK 21.04 339 eP 28 29.80 3.5X
 e 32 12.00
 e 39 23.00
 e 44 14.00
 BJI 22.12 272 eP 28 36.00 -1.4
 1.0s 18.00nm 4.5mb
 TIA 22.87 262 eP 28 44.60 -0.2
 NJ2 23.78 251 eP 28 55.80 2.2
 HHC 25.25 276 eP 29 07.20 -0.5
 TIY 25.67 269 Pc 29 13.20 1.6
 BTO 26.44 277 eP 29 19.00 0.3
 WHN 27.79 253 eP 29 35.50 4.6X

LZH 32.61 272 eP 30 29.20 15.5X
 1.5s 34.00nm
 Z 15s 0.48um
 E 15s 0.40um

pP 30 42.50 52kmX
 sP 30 49.50
 i 31 07.50

GTA 34.23 280 eP 30 27.80 0.2
 CD2 35.18 264 eP 30 35.20 -0.5
 GYA 35.65 255 P 30 40.60 0.8
 WMO 41.20 292 eP 31 25.50 -0.3
 GUN 49.87 273 P 32 34.62 -0.6
 KKN 50.37 273 P 32 38.64 -0.2
 0.6s 6.00nm 4.8mb
 PKI 50.40 273 P 32 41.44 2.2
 0.8s 6.00nm 4.7mb
 GKN 50.72 274 P 32 40.70 -0.8
 YKA 56.91 33 eP 33 25.00 -1.2
 0.9s 3.90nm 4.5mb
 HYB 61.58 268 eP 34 17.00 17.9X
 NEW 63.57 48 eP 34 12.60 0.6
 1.1s 5.86nm 4.5mb
 WB2 63.67 192 eP 34 11.30 -1.4
 0.9s 3.80nm 4.4mb
 WDC 64.96 57 ePc 34 21.80 0.8
 ORV 66.21 58 eP 34 29.00 0.0
 FFC 66.83 36 eP 34 33.00 0.3
 0.6s 8.00nm 4.8mb
 ASPA 67.39 192 iPd 34 37.70 1.2
 0.8s 7.20nm 4.7mb

LRM 67.59 48 eP 34 30.80 -7.2X
 CMB 67.82 58 eP 34 39.90 0.6
 UPP 68.77 335 iP 35 02.30 17.7X
 FR1 68.89 59 e(P) 34 46.40 0.6
 NB2 69.68 338 P 34 49.00 -1.3
 0.4s 1.70nm 4.3mb
 HFS 69.73 337 eP 34 49.00 -1.5
 0.6s 5.60nm 4.7mb

TNP 69.75 57 eP 34 52.50 1.2
 0.7s 4.00nm 4.5mb
 FRB 70.02 15 eP 34 50.00 -2.3
 BW06 71.15 49 eP 35 00.20 0.4
 1.1s 11.90nm 4.7mb
 KRA 75.69 327 eP 35 25.70 0.0
 e 35 44.50 69km
 KSP 76.45 330 eP 35 30.00 0.0
 e 35 49.00 70km

CLL 77.25 332 eP 35 34.00 -0.4
 1.1s 14.00nm 4.8mb
 PRU 77.80 330 eP 35 37.00 -0.5
 e 35 57.00 74km
 ANMO 78.27 53 eP 35 41.00 0.4
 1.1s 3.16nm 4.2mb
 KHC 78.86 330 eP 35 43.50 0.1
 GRC1 79.71 331 e(P) 35 48.70 0.8
 e 36 07.50 69km

KBA 80.66 329 iPc 35 54.30 1.1
 1.0s 6.30nm 4.5mb
 i 36 12.80 67km
 CDF 81.65 333 eP 36 17.60 19.3X
 HAU 82.31 334 eP 36 20.70 19.1X
 LOR 83.75 335 eP 36 28.30 19.3X
 0.8s 5.35nm
 SSF 84.05 335 eP 36 29.90 19.4X
 1.0s 6.00nm
 SMF 84.31 335 eP 36 31.50 19.6X
 1.0s 12.00nm
 AVF 84.33 335 eP 36 31.70 19.8X
 1.0s 8.00nm
 BGF 84.70 335 eP 36 33.80 20.0X
 1.0s 12.00nm
 LSF 85.38 336 eP 36 36.90 19.7X
 0.8s 5.35nm

SIV 144.64 48 PKP 43 16.00 -1.0
 S.D. = 1.1 on 43 of 57 obs.

APR 01, 1991 22h 33m 42.09 ± 1.35s
 36.323 N ± 9.3km 141.979 E ± 9.6km
 DEPTH = 26.8 ± 7.0 km
 4.7mb (8 obs.)
 NEAR EAST COAST OF HONSHU, JAPAN (228)

KAKJ 1.46 266 iPd 34 06.10 -0.8
 YAMJ 2.41 321 iP+ 34 21.60 1.0
 CHJJ 2.43 264 iPd 34 19.90 -0.9

NIJ 2.56 292 iP+ 34 23.60 0.9
 OFUJ 2.76 355 iP+ 34 25.80 0.3
 MAT 3.05 275 eP 34 30.00 0.4
 eS 35 09.00

MTMJ 3.38 276 iP+ 34 35.20 0.8
 IIDJ 3.41 257 P 34 35.70 0.9
 TSRJ 4.93 263 eP 34 58.70 2.4
 HOOJ 6.14 9 P 35 11.90 -1.4

eS 36 17.80
 KUSJ 7.09 16 eP 35 24.50 -2.1
 eS 36 40.70
 ASAJ 7.80 4 eP 35 37.20 0.5
 MDJ 12.54 315 eP 36 40.60 -0.9
 CN2 14.68 306 eP 37 07.40 -2.3
 1.0s 10.00nm 4.2mb
 Z 15s 1.20um 5.0msz
 N 13s 0.30um
 E 13s 0.30um

ePP 37 12.00
 GYA 31.56 262 Pd 40 02.80 -1.8
 GTA 33.21 288 iPc 40 18.60 -0.3
 0.8s 10.00nm 4.8mb
 WMO 41.57 298 P 41 29.60 0.5
 LSA 42.73 276 P 41 40.00 0.7
 GUN 47.68 277 P 42 19.40 0.7
 1.0s 46.00nm 5.4mb

PKI 48.20 276 P 42 21.98 -0.8
 KKN 48.22 277 P 42 22.20 -0.5
 1.0s 27.00nm 5.2mb
 DMN 48.43 277 P 42 24.40 0.0
 GKN 48.64 277 P 42 25.56 -0.3
 WB2 56.42 189 iPc 43 22.20 -1.5
 0.9s 2.50nm 4.2mb

i 43 28.90
 HYB 58.64 269 eP 43 39.00 -0.6
 GBA 61.62 266 Pc 43 57.90 -2.0
 0.8s 9.10nm 5.0mb
 YKA 64.19 30 eP 44 16.70 0.4
 0.8s 1.10nm 4.0mb

SOD 65.80 337 iP 44 27.00 0.4
 LRM 74.34 44 eP 45 21.40 2.1
 NB2 75.02 338 P 45 23.10 0.5
 0.8s 6.40nm 4.7mb
 FRB 77.36 13 eP 45 37.00 1.4
 KSP 80.94 329 eP 45 56.70 1.4
 KHC 83.39 329 eP 46 09.50 1.4

ZOBO 146.64 61 PKP 53 22.00 -0.4
 LPB 146.83 61 (PKP) 53 31.00 8.5X
 CNCB 147.10 62 PKP 53 27.00 3.9X
 SIV 151.18 51 ePKP 53 35.00 6.3X
 S.D. = 1.3 on 34 of 37 obs.

APR 01, 1991 22h 45m 19.62 ± 0.26s
 44.548 N ± 1.8km 7.280 E ± 2.6km
 DEPTH = 10.1 ± 2.9 km
 NORTHERN ITALY (545)
 ML 2.4 (LDG), 2.3 (GEN), MD 1.6 (STR).

DOI 0.05 209 Pd 45 22.50 0.6
 eSg 45 24.00
 PZZ 0.13 251 P 45 23.05 0.1
 S 45 25.10
 BHB 0.29 358 P 45 25.71 -0.1
 S 45 29.40

STV 0.31 174 P 45 26.12 0.1
 S 45 30.23
 ENR 0.34 163 P 45 26.53 -0.1
 S 45 30.94
 ROB 0.49 121 P 45 29.82 0.2
 S 45 37.20

RRL 0.51 317 P 45 29.61 -0.5
 S 45 36.79
 TOUF 0.54 182 Pg 45 30.28 -0.2
 Sg 45 36.89
 AUTN 0.56 169 Pg 45 30.82 -0.4
 RSP 0.60 358 P 45 32.07 0.2
 S 45 39.38

MVIF 0.66 188 Pg 45 32.60 -0.2
 Sg 45 41.67
 AURF 0.66 177 Pg 45 32.51 -0.3
 Sg 45 41.65

BNI 0.66 320 P 45 32.60 -0.3
 eSg 45 41.70
 SBF 0.69 171 Pg 45 33.40 0.0
 Sg 45 42.00
 CKI 0.73 99 P 45 34.20 0.3

01d 22h

FIN	0.75	117	P	45 43.60	-0.1
			S	45 43.97	
IMI	0.77	145	P	45 34.53	-0.2
			S	45 44.79	
PCP	0.90	90	P	45 37.10	0.1
			S	45 48.78	
LSD	0.91	355	P	45 37.79	0.5
LPG	1.02	339	Pg	45 39.00	-0.1
			Sg	45 51.40	
FRF	1.09	205	Pg	45 40.40	0.3
			Sg	45 54.20	
LRG	1.28	212	Pg	45 43.60	0.3
			Sg	46 01.20	
LMR	1.34	205	Pg	45 44.50	0.3
			Sg	46 02.00	
S.D. = 0.3 on 23 of 23 obs.					

% APR 01, 1991 23h 16m 20.14 ± 0.83s
40.520 N ± 6.6km 22.725 E ± 8.0km
DEPTH = 10.0km (geophysicist)
GREECE (364)

THE	0.21	58	ePc	16 24.58	-0.2
			eS	16 28.10	
LIT	0.46	203	ePd	16 29.42	0.0
			eS	16 36.18	
GRG	0.50	331	iPd	16 30.30	0.0
			iS	16 37.94	
SOH	0.57	58	ePc	16 31.86	0.2
KNT	0.65	12	ePd	16 33.22	0.0
			eS	16 42.34	
S.D. = 0.2 on 5 of 5 obs.					

APR 01, 1991 23h 47m 46.32 ± 0.25s
43.200 N ± 2.4km 0.891 W ± 2.9km
DEPTH = 25.4 ± 2.6 km
PYRENEES (378)
ML 4.2 (LDG). mbLg 3.5 (MDD).
Felt (V) at Lorrain, France and
(IV) at Valcarlos, Spain. Also
felt (II) in the Biarritz area,
France.

MADF	0.08	136	Pg	47 50.69	-0.3
ELYF	0.08	248	Pg	47 50.45	-0.5
BOH	0.13	222	Pg	47 50.00	-1.4
ATE	0.18	129	Pg	47 51.45	-0.4
			Sg	47 54.33	
ISSF	0.19	158	Pg	47 50.54	-1.5
			Sg	47 52.84	
ESCF	0.26	118	Pg	47 52.82	-0.1
			Sg	47 56.72	
OGE	0.31	96	Pg	47 54.48	1.0
			Sg	47 59.86	
LHE	0.35	145	Pg	47 52.99	-1.2
			Sg	47 56.77	
JAU	0.42	113	Pg	47 55.55	0.3
EPF	0.92	100	Pg	48 04.60	1.1
			Sg	48 16.60	
ECRI	1.33	244	iP	48 11.37	2.0
			iS	48 29.20	
MLS	1.47	99	Pg	48 15.03	3.7X
			Sg	48 36.23	
LFF	2.10	34	Pn	48 22.20	1.7
			Pg	48 28.30	
			Sg	48 57.00	
LPO	2.11	45	Pn	48 22.00	1.3
			Pg	48 28.40	
			Sg	48 56.40	
ETOR	2.53	200	iP	48 27.33	0.6
			eS	48 53.50	
EROQ	2.56	157	eP	48 27.31	0.2
			eS	48 56.50	
RJF	2.72	39	Pn	48 30.00	0.7
			Pg	48 39.00	
			Sg	49 15.00	
CAF	2.74	50	Pn	48 30.60	1.0
			Sg	49 17.00	
ETER	2.90	107	iP	48 35.23	3.4X
MFF	3.44	9	Pn	48 40.40	0.9
			Pg	48 53.00	
			Sg	49 39.00	
LSF	3.50	29	Pn	48 40.60	0.1
			Sg	49 20.40	
GUD	3.53	225	iP	48 41.13	0.2
			eS	49 20.30	

LBL	3.60	54	Pn	48 41.92	0.1
ECH	3.61	181	iP	48 42.88	0.9
			eS	49 22.40	
PYM	3.78	46	Pn	48 45.13	0.7
TCF	3.80	35	Pg	49 00.00	15.4X
			Sg	49 48.40	
MAF	3.90	38	Pn	48 45.50	-0.5
			Sg	49 52.20	
AGO	4.05	44	Pn	48 47.86	-0.3
TOL	4.07	217	ePn	48 48.00	-0.6
			ePb	49 03.50	
			i(Pg)	49 09.50	
			iSn	49 33.00	
			eSb	49 52.00	
			iSg	49 54.50	
PLDF	4.25	48	Pn	48 51.22	0.1
BGF	4.28	37	Pn	48 50.70	-0.7
			Pg	49 09.00	
			Sg	50 04.40	
SSB	4.42	60	Pn	48 54.04	0.5
ESEL	4.45	139	eP	48 54.03	0.1
			eS	49 43.20	
ERUA	4.67	262	eP	48 57.64	0.6
AVF	4.68	39	Pn	48 56.40	-0.8
			Sg	50 17.20	
ACU	4.70	175	eP	48 57.52	0.1
			eS	49 47.60	
EMON	4.70	275	eP	48 58.99	1.5
			eS	49 50.00	
EVIA	4.72	196	iP	48 57.59	-0.2
			eS	49 48.60	
HYF	4.77	30	Pn	48 59.10	0.7
			Sg	50 21.60	
SMF	4.81	43	Pn	48 58.40	-0.6
			Sg	50 20.40	
LPF	4.83	359	Pn	48 59.00	-0.2
			Pg	49 18.20	
			Sg	50 22.00	
CDR	4.87	82	ePn	49 00.20	0.4
			e	49 02.90	
			eSn	49 51.10	
			e	49 53.10	
SSF	4.96	37	Pn	48 59.70	-1.3
			Sn	49 56.00	
			Sg	50 25.60	
EPLA	4.99	233	eP	49 01.05	-0.5
			eS	49 54.90	
LBF	5.12	41	Pn	49 01.60	-1.7
			Pg	49 24.40	
			Sg	50 32.00	
GRR	5.19	0	Pn	49 03.60	-0.7
			Pg	49 25.20	
			Sn	50 02.80	
LOR	5.27	38	Pn	49 04.20	-1.3
			Sg	50 33.20	
LRG	5.30	85	Pn	49 06.00	0.2
LDF	5.42	5	Pn	49 07.00	-0.6
			Sn	50 08.40	
FRF	5.51	84	Pn	49 09.00	0.2
FLN	5.57	3	Pn	49 08.80	-0.9
			Sg	50 43.60	
STS	5.62	269	eP	49 11.30	0.9
LPL	5.94	64	Pn	49 16.00	0.9
PTO	6.09	253	ePn	50 06.00	49.0X
			e	50 24.00	
			eSn	50 57.70	
SBF	6.09	81	Pn	49 18.20	1.1
ECOG	6.26	200	iP	49 19.13	-0.4
AFC	6.28	200	eP	49 19.48	-0.3
ENIJ	6.30	190	eP	49 19.81	-0.2
EHOR	6.31	213	iP	49 18.94	-1.2
HAU	6.99	44	Pn	49 28.40	-1.3
EPRU	7.06	210	eP	49 30.44	-0.2
DOU	7.86	27	P	49 40.50	-1.3
			iS	51 03.40	
SNF	8.13	24	iP	49 45.20	-0.3
			iS	51 09.50	
MEM	8.78	30	P	49 54.40	-0.2
			iS	51 28.50	
S.D. = 0.9 on 60 of 64 obs.					

? APR 01, 1991 23h 50m 32.24 ± 17.37s
41.948 N ± 118.km 23.214 E ± 21.0km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)

KNT	0.82	197	ePc	50 47.48	-0.7
-----	------	-----	-----	----------	------

SRS	0.88	161	eS	50 58.04	
			ePc	50 49.04	-0.1
			eS	51 00.00	
SOH	1.13	175	ePd	50 53.36	-0.1
			eS	51 08.28	
GRG	1.16	212	ePc	50 54.16	0.2
			eS	51 09.24	
THE	1.33	188	ePc	50 57.36	0.6
			eS	51 14.68	
S.D. = 0.7 on 5 of 5 obs.					

APR 02, 1991 00h 03m 51.00 ± 0.56s
43.054 N ± 6.9km 0.660 W ± 3.9km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
ML 2.3 (LDG). Felt at Laguinge,
France.

ATE	0.05	316	Pg	03 52.97	-0.2
			Sg	03 54.86	
ESCF	0.07	68	Pg	03 53.12	-0.3
			Sg	03 54.90	
ISSF	0.10	255	Pg	03 54.29	0.4
			Sg	03 57.26	
LHE	0.14	169	Pg	03 55.09	0.6
MADF	0.15	308	Pg	03 54.29	-0.2
			Sg	03 56.74	
OGE	0.18	50	Pg	03 54.03	-1.0
JAU	0.21	94	Pg	03 55.25	-0.5
BOH	0.26	281	Pg	03 56.33	-0.3
ELYF	0.27	296	Pg	03 55.94	-0.8
EPF	0.73	91	Pg	04 04.60	-0.8
			Sg	04 15.90	
LPO	2.11	39	Pg	04 28.50	1.8
			Sg	04 56.00	
LFF	2.14	28	Pg	04 28.30	1.1
			Sg	04 57.00	
CAF	2.71	45	Pn	04 30.60	-4.9X
			Pg	04 41.00	
			Sg	05 16.00	
RJF	2.74	34	Pg	04 39.00	3.2X
			Sg	05 15.00	
S.D. = 0.9 on 12 of 14 obs.					

* APR 02, 1991 00h 36m 31.57 ± 0.91s
18.944 S ± 10.2km 69.640 W ± 16.2km
DEPTH = 127.6 ± 15.0 km
3.8mb (1 obs.)
NORTHERN CHILE (123)

CNCB	2.65	37	P	37 14.10	-0.6
			S	37 50.00	
LPB	2.81	32	P	37 18.00	1.3
			S	37 56.00	
ZOBO	3.03	29	P	37 19.00	-0.7
ARE	3.03	324	iP	37 19.50	0.0
			iS	37 58.50	
ANT	4.79	189	eP	37 42.80	0.0
SIV	8.69	72	P	38 27.60	-8.2X
YKA	88.56	341	eP	49 10.60	0.0
	0.8s	0.70nm		3.8mb	
S.D. = 1.1 on 6 of 7 obs.					

APR 02, 1991 00h 52m 05.37 ± 0.66s
41.069 N ± 5.6km 22.451 E ± 5.3km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.8 (SKO).

GRG	0.12	199	iPc	52 08.56	0.2
			eS	52 10.08	
VAY	0.27	20	iPg	52 10.70	-0.3
			iSg	52 14.40	
KNT	0.35	74	iPc	52 12.96	0.4
			eS	52 18.00	
THE	0.58	138	ePd	52 16.60	-0.6
			eS	52 23.88	
SOH	0.73	110	ePd	52 20.16	0.5
			eS	52 28.76	
FNA	0.86	251	ePd	52 22.16	0.1
			eS	52 33.08	
SRS	0.86	86	ePc	52 21.84	-0.2
			eS	52 33.64	
LIT	0.97	178	ePc	52 23.64	-0.1
			eS	52 35.40	
S.D. = 0.4 on 8 of 8 obs.					

& APR 02, 1991 02h 19m 01.19s
60.810 N 149.590 W
DEPTH = 42.1km
KENAI PENINSULA, ALASKA (14)
<AEIC>. ML 2.9 (AEIC). Felt
(111) at Hope.

SLKM	0.43	226	iPd	19 10.84	-0.4
PMS	0.44	2	ePd	19 10.56	-0.7
			iS	19 17.43	
SEW	0.71	174	iPd	19 14.27	-0.6
			iS	19 23.76	
NKA	0.81	266	ePc	19 17.56	1.3
PLRM	0.82	16	ePc	19 15.49	-0.8
			eS	19 26.70	
PMR	0.82	16	eP	19 15.20	-1.1
KNK	0.82	42	iPc	19 15.74	-0.7
PWA	0.86	351	ePc	19 16.51	-0.4
			eS	19 29.37	
SUA	0.86	320	iPc	19 16.72	-0.4
			S	19 29.22	
GHO	1.02	18	ePd	19 18.90	-0.4
			eS	19 33.53	
KNIM	1.03	116	ePc	19 18.00	-1.3
			eS	19 32.65	
NNL	1.14	228	ePc	19 21.76	0.8
LTI	1.16	131	eP	19 20.08	-1.1
GLI	1.22	86	iPc	19 21.01	-1.1
			eS	19 36.43	
BRLK	1.23	212	eP	19 22.19	-0.1
			eS	19 38.04	
SPU	1.26	288	iPc	19 22.48	-0.2
			eS	19 38.85	
MTU	1.27	130	eP	19 22.73	0.0
CRP	1.33	291	iPc	19 23.97	0.2
			eS	19 41.05	
NCG	1.38	297	iPc	19 24.52	0.1
CKL	1.39	287	iPc	19 24.62	0.0
RDT	1.41	262	iPc	19 24.67	-0.1
			eS	19 42.73	
BGL	1.44	290	iPc	19 25.38	0.1
SCM	1.50	46	ePc	19 26.06	0.0
SKT	1.50	322	ePc	19 26.03	0.0
			eS	19 45.75	
CNPM	1.53	213	eP	19 26.59	0.1
DFR	1.54	263	iPc	19 26.54	-0.1
			eS	19 46.83	
HOM	1.54	222	eP	19 26.79	0.2
REF	1.57	259	ePc	19 27.22	0.1
			S	19 47.34	
RDN	1.59	261	iPc	19 27.22	-0.2
			eS	19 47.77	
RSO	1.60	259	iPc	19 27.68	0.1
			eS	19 48.35	
RS2	1.60	259	ePc	19 27.71	0.1
RED	1.62	257	ePc	19 27.70	-0.1
			eS	19 48.18	
RDW	1.62	260	ePc	19 28.03	0.1
VLZ	1.62	77	eP	19 27.00	-0.7
			eS	19 46.39	
CUT	1.63	349	eP	19 28.13	0.2
NCT	1.66	263	ePc	19 28.35	-0.1
TOA	2.09	50	eP	19 35.50	1.0
PDB	2.51	248	eP	19 40.43	0.0
RND	2.63	7	eP	19 43.12	0.9
GLB	2.88	75	ePc	19 44.29	-1.4
SVW	2.96	278	e(P)	19 50.00	3.1
BALM	3.54	83	eP	19 53.00	-2.3
FBA	4.19	11	eP	20 01.50	-2.7

43 obs. associated

* APR 02, 1991 02h 20m 54.82±1.49s
3.712 S ±17.6km 138.628 E ±12.7km
DEPTH = 33.0km (normal)
4.6mb (3 obs.)

WEST IRIAN (201)

MNDI	5.57	116	eP	22 18.00	0.2
YYYY	7.73	109	eP	23 17.40	29.3X
MTN	11.72	219	eP	23 49.00	6.2X
			eS	26 02.00	
KNA	15.40	218	eP	24 39.00	7.6X
			eS	27 28.50	
WB2	16.66	194	iPc	24 48.90	1.3
	0.3s			19.10nm	4.7mb
			eS	27 53.20	
			ScS	36 32.00	

OIS	16.77	177	eP	24 48.00	-0.9
			eS	27 54.00	
ASPA	20.36	193	iPc	25 30.90	-0.5
	0.8s			8.80nm	4.2mb
			eS	29 21.10	
WARB	25.13	206	eP	26 18.40	-0.1
	0.4s			7.00nm	4.6mb
PSI	40.19	279	ePc	28 30.10	0.0
	S.D. = 1.0	on	6 of	9 obs.	

? APR 02, 1991 02h 21m 18.50±2.68s
34.348 N ±23.5km 26.049 E ±24.1km
DEPTH = 33.0km (normal)

CRETE (370)
MD 3.7 (ATH).

NPS	0.98	339	iPbd	21 35.90	-0.1
			eSb	21 45.50	
VL1	3.47	314	ePn	22 16.50	5.0X
CIN	3.64	26	eP	22 14.00	0.1
CSS	6.03	82	eP	22 51.00	3.2X
HRI	8.14	95	eP	23 17.00	-0.3
DSI	8.32	107	eP	23 20.00	0.3
PRNI	8.56	115	eP	23 25.00	1.9X
	S.D. = 0.5	on	4 of	7 obs.	

% APR 02, 1991 02h 27m 18.23±0.83s
40.533 N ±6.5km 22.726 E ±7.8km
DEPTH = 10.0km (geophysicist)

GREECE (364)

THE	0.21	61	ePc	27 22.56	-0.2
			eS	27 26.08	
LIT	0.47	203	ePc	27 27.76	0.0
			iS	27 33.96	
GRG	0.49	330	ePc	27 28.16	0.0
			eS	27 37.24	
SOH	0.56	59	ePc	27 29.76	0.2
KNT	0.64	12	ePc	27 31.12	0.0
			eS	27 41.84	
	S.D. = 0.2	on	5 of	5 obs.	

* APR 02, 1991 02h 32m 20.35±1.36s
2.984 S ±13.6km 119.554 E ±21.6km
DEPTH = 30.8 ±12.5 km
4.4mb (2 obs.)

SULAWESI (268)

BKB2	3.16	303	iPd	33 09.40	0.3
TSM	7.31	348	ePd	34 07.50	-0.3
WB2	22.20	141	eP	37 15.50	-0.4
	0.7s			11.00nm	4.4mb
ASPA	24.81	147	iPd	37 42.00	0.7
	0.8s			8.00nm	4.4mb
OIS	26.21	133	iPd	37 54.10	-0.3
BJI	42.93	356	eP	40 18.50	0.5
HYB	45.24	298	eP	40 36.50	-0.6
	S.D. = 0.7	on	7 of	7 obs.	

& APR 02, 1991 04h 21m 47.78s
60.755 N 151.364 W

DEPTH = 61.9km
KENAI PENINSULA, ALASKA (14)
<AEIC>.

NKA	0.06	101	iPd	21 58.45	3.0
RDT	0.54	251	iPd	21 59.83	-0.7
			eS	22 09.66	
SPU	0.54	322	iPd	21 59.80	-0.7
			eS	22 09.62	
SLKM	0.62	113	iPc	22 00.98	-0.3
CRP	0.64	323	ePd	22 01.30	-0.4
			eS	22 11.95	
CKL	0.65	313	iPd	22 01.02	-0.8
DFR	0.67	256	iPd	22 01.18	-0.8
			eS	22 11.52	
REF	0.71	249	iPd	22 01.97	-0.6
			eS	22 13.63	
BGL	0.71	316	iPd	22 01.86	-0.7
			eS	22 13.58	
NNL	0.72	177	eP	22 03.11	0.7
RDN	0.73	251	iPd	22 01.90	-0.9
			eS	22 13.40	
RSO	0.75	247	iPd	22 02.45	-0.6
			eS	22 14.36	
RS2	0.75	248	iPd	22 02.51	-0.5
			eS	22 14.13	

NCG	0.76	330	iPd	22 02.38	-0.7
			eS	22 13.91	
RDW	0.76	250	iPd	22 02.56	-0.7
			eS	22 14.37	
RED	0.77	245	iPd	22 02.63	-0.6
			eS	22 14.39	
SUA	0.77	23	iPc	22 02.79	-0.5
			eS	22 14.84	
NCT	0.80	257	iPd	22 02.89	-0.6
			eS	22 14.52	
PMS	1.01	60	iPc	22 06.02	-0.2
BRLK	1.02	166	ePc	22 06.25	-0.1
			eS	22 20.77	
HOM	1.11	187	eP	22 07.58	0.1
			eS	22 23.81	
PWA	1.15	38	ePc	22 08.01	0.0
			eS	22 24.05	
SEW	1.15	124	eP	22 08.03	0.0
			S	22 23.59	
SKT	1.23	356	ePc	22 08.71	-0.5
			eS	22 24.60	
CNPM	1.23	177	ePc	22 09.08	-0.1
			S	22 25.99	
PLRM	1.37	51	eP	22 10.33	-0.7
GHO	1.56	48	ePc	22 12.90	-0.8
PDB	1.71	237	iPc	22 14.50	-1.2
			eS	22 35.19	
CUT	1.74	17	eP	22 15.70	-0.4
KNIM	1.84	101	ePc	22 15.38	-2.1
LTI	1.88	111	ePc	22 16.58	-1.6
MTU	2.00	111	ePc	22 18.50	-1.3
GLI	2.10	85	ePc	22 18.67	-2.4
			eS	22 43.77	
CDD	2.16	213	eP	22 21.75	-0.3
SCM	2.23	59	eP	22 22.28	-0.8
VZW	2.37	81	eP	22 22.97	-2.0
VLZ	2.48	79	eP	22 24.42	-2.1
TOA	2.84	59	eP	22 33.10	1.4

38 obs. associated

& APR 02, 1991 04h 46m 24.80s
34.010 N 118.330 W
DEPTH = 7.0km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.8 (PAS). Felt in
the Los Angeles area.

SCY	0.14	313	iPc	46 27.79	-0.1
			eS	46 29.97	
PAS	0.19	44	iPd	46 28.60	-0.2
			eS	46 31.29	
PVPS	0.23	195	iPd	46 29.41	-0.2
			eS	46 32.88	
MWC	0.31	47	iPd	46 30.70	-0.5
TWL	0.35	321	eP	46 31.66	-0.2
			eS	46 37.24	
PEM	0.41	68	ePc	46 32.37	-0.8
CIS	0.60	186	eP	46 36.10	-0.8
SBB	0.80	32	iPd	46 39.00	-1.6
PEC	0.98	97	eP	46 42.00	-1.7
SCI	1.04	190	eP	46 44.40	-0.4
ABL	1.12	319	eP	46 44.50	-1.7
PLM	1.39	118	eP	46 48.30	-2.4
SYF	1.46	291	eP	46 50.30	-1.4
BLP	1.80	288	eP	46 54.50	-2.0
GSC	1.80	44	iPc	46 55.80	-0.8
BCH	1.86	310	eP	46 56.30	-1.2
TNP	4.16	12	eP	47 29.50	-0.8

17 obs. associated

? APR 02, 1991 05h 32m 14.93±6.13s
15.370 N ±52.9km 98.132 W ±15.0km
DEPTH = 33.0km (normal)

OFF COAST OF GUERRERO, MEXICO (65)

OXX	2.17	38	iP	32 49.50	-0.2
			iS	33 15.00	
ACX	2.23	312	eP	32 50.50	0.2
			iS	33 14.50	
III	3.25	337	iP	33 04.50	-0.5
			(S)	33 33.50	
IIT	3.63	357	eP	33 09.00	-1.5
IISM	3.67	11	iP	33 11.50	0.8
PPM	3.71	353	eP	33 13.00	1.3
			iS	33 51.50	
CRX	4.28	340	(P)	33 25.00	5.3X
LVVM	4.63	20	(P)	33 34.25	9.9X

02d 05h

MRX 5.21 326 (P) 33 41.00 8.5X
S.D. = 1.3 on 6 of 9 obs.

APR 02, 1991 06h 21m 33.22 ± 0.36s
31.169 S ± 8.2km 177.848 W ± 8.9km
DEPTH = 39.3km (12 depth phases)
5.1mb (16 obs.) 4.7Msz (1 obs.)

KERMADEC ISLANDS REGION (177)
CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 17S, 32C

Centroid Location:

Origin Time 06:21:43.4 1.4

Lat 29.77S 0:13 Lon 178.10W 0.11

Dep 15.0 FIX Half-duration 1.6

Moment Tensor: Scale 10¹⁶ Nm

Mrr=-0.03 0.41 Mtt= 6.51 0.54

Mff=-6.48 0.61 Mrt=-9.10 1.24

Mrf= 2.19 1.48 Mtf= 3.42 0.43

Principal Axes:

T Val= 13.04 Plg=34 Azm=174

N -2.77 38 297

P -10.27 33 58

Best Double Couple: Mo=1.2*10¹⁷

NP1: Strike=206 Dip=38 Slip= 179

NP2: 296 90 52

RAO 1.91 358 P 21 50.00 -14.0X

HBZ 7.16 205 eP 23 21.10 3.0

PUZ 7.60 204 eP 23 27.10 2.8

NOZ 8.16 203 eP 23 34.60 2.5

PGZ 10.56 205 eP 24 04.10 -1.0

KIW 11.31 209 eP 24 12.80 -2.4

MRW 11.70 209 eP 24 18.50 -2.0

WEL 11.72 208 eP 24 27.00 6.2X

ICW 11.86 210 eP 24 20.30 -2.4

THZ 12.92 213 eP 24 36.10 -0.8

KHZ 13.17 209 eP 24 37.40 -2.6

SVL 13.42 345 ePc 24 37.60 -5.9X

VUN 13.52 345 eP 24 36.80 -8.1X

LTZ 14.01 211 eP 24 52.40 1.2

SGE 14.05 343 eP 24 45.60 -6.3X

DZM 16.70 299 iPc 25 24.20 -1.8

TBI 26.36 80 iP 27 12.40 4.9X

CNB 27.66 253 eP 27 27.00 7.5X

AFR 28.85 69 iP 27 29.70 -0.5

PAE 28.94 69 iP 27 30.70 -0.3

PPT 29.00 69 iP 27 31.20 -0.3

PPN 29.13 69 iP 27 32.30 -0.4

TVO 29.14 69 iP 27 32.70 -0.2

RMO 29.56 271 eP 27 40.00 3.4X

PMO 31.77 66 iP 27 57.00 0.9

CTA 34.06 280 iPc 28 18.30 2.3

STK 34.44 258 eP 28 41.20 22.0X

ADE 36.39 252 eP 28 42.00 6.2X

OIS 39.51 275 eP 29 04.00 2.0

WBZ 44.25 273 eP 29 39.90 -0.9

WRA 44.26 273 P 29 39.00 -1.9

FORR 45.93 256 iPd 29 55.20 1.2

SPA 59.00 180 iPc 31 38.50 7.3X

NVL 78.12 183 iP 33 45.00 15.8X

PRS 85.50 42 e(P) 34 08.30 0.1

PRI 85.78 43 e(P) 34 09.90 0.1

LLA 85.94 43 e(P) 34 11.80 1.3

MHC 86.05 42 ePd 34 11.00 -0.1

BKS 86.09 41 eP 34 10.80 -0.3

0.9s 44.00nm 5.7mb

RVR 86.31 46 eP 34 24.00 11.7X

SBB 86.49 46 eP 34 25.00 11.7X

ISA 86.75 45 eP 34 33.00 25kmX

FRI 86.92 43 ePd 34 14.40 -0.8

TPC 87.21 47 eP 34 17.00 0.3

CMB 87.25 42 ePd 34 16.20 -0.6

GLA 87.30 49 eP 34 17.00 -0.2

CLC 87.38 45 eP 34 17.00 -0.5

GSC 87.53 46 eP 34 19.00 0.7

ORV 87.67 40 e(P) 34 17.80 -1.0

WDC 87.83 39 ePd 34 18.90 -0.6

MIN 88.17 39 e(P) 34 20.80 -0.5

TNP 89.12 43 iP 34 25.80 -0.2

ALO 93.95 51 eP 34 48.00 -0.4

ANMO 93.95 51 eP 34 48.80 0.5

ZOBO 97.73 114 eP 35 20.00 13.5X

YKA 106.08 26 ePd 35 51.60 9.5X

YKA 106.08 26 ePKP 40 02.20 8.3X

FRB 125.96 31 ePKP 40 30.00 -1.9

KEV 138.90 347 ePKP 41 07.00 10.8X

KAF 145.31 340 ePKP 41 05.30 -2.3X

OBN 145.86 325 ePKP 41 15.00 6.2X

NUR 147.08 340 iPKP 41 11.50 1.1

UPP 149.49 345 iPKP 41 26.80 12.4X

NBZ 149.53 351 PKP 41 16.80 2.3

HFS 150.02 348 ePKP 41 17.00 1.8

BBTK 153.72 298 ePKP 41 35.00 13.6X

KIC 154.49 164 PKP 41 41.42 18.4X

MLR 156.60 314 ePKP 41 40.50 15.4X

KSP 157.71 336 ePKP 41 34.50 8.4X

CLL 158.33 341 ePKP 41 47.00 20.2X

KHC 160.09 338 ePKP 41 36.50 7.7X

S.D. = 1.5 on 44 of 71 obs.

& APR 02, 1991 08h 19m 51.04s

59.910 N 152.913 W

DEPTH = 92.2km

SOUTHERN ALASKA (2)

<AEIC>.

RED 0.52 8 iP 20 05.80 -0.7

RS2 0.56 8 iP 20 06.45 -0.5

RSO 0.56 8 iP 20 06.44 -0.5

RDW 0.58 5 iP 20 06.49 -0.6

REF 0.59 10 iP 20 06.63 -0.6

RDN 0.61 7 eP 20 05.22 -2.1

NCT 0.65 359 eP 20 07.06 -0.6

PDB 0.66 260 iP 20 06.55 -1.0

HOM 0.69 111 eP 20 07.42 -0.4

DFR 0.69 9 eP 20 20.85 -0.8

RDY 0.71 21 iP 20 20.18 -0.7

NNL 0.82 80 iP 20 09.49 0.3

CNPM 0.93 114 iP 20 09.43 -1.0

MCNL 1.03 226 eP 20 09.91 -1.6

BRLK 1.03 97 eP 20 10.69 -0.9

CKL 1.32 12 eP 20 14.60 -0.6

SYI 1.33 168 eP 20 13.90 -1.2

SPU 1.34 18 eP 20 14.60 -0.8

BGL 1.38 11 eP 20 15.53 -0.4

SLKM 1.47 65 eP 20 15.97 -1.0

NCG 1.54 14 eP 20 17.72 -0.3

SEW 1.75 82 eP 20 19.01 -1.5

SUA 1.89 33 eP 20 22.16 -0.3

PMS 2.13 50 eP 20 24.68 -0.9

SKT 2.18 17 eP 20 25.29 -1.1

PLRM 2.51 46 eP 20 28.68 -2.0

LTJ 2.55 85 eP 20 29.21 -2.0

KNIM 2.63 78 eP 20 29.47 -2.9

MTU 2.65 86 eP 20 31.06 -1.6

KNK 2.66 54 eP 20 30.62 -2.2

CUT 2.81 26 eP 20 33.23 -1.6

31 obs. associated

APR 02, 1991 08h 21m 37.00 ± 0.84s

22.591 N ± 8.9km 121.528 E ± 8.2km

DEPTH = 10.0km (geophysicist)

4.4mb (8 obs.)

TAIWAN REGION (243)

ML 4.6 (BJI).

TWG 0.48 299 iPc 21 46.80 0.1

TWF1 0.79 344 ePd 21 52.50 0.2

TWC 2.03 8 eP 22 13.30 1.7

OZH 3.57 312 iPnd 22 32.00 -1.5

HKC 6.81 269 iP 23 19.20 -0.2

GZH 7.57 275 P 23 29.50 -0.5

SSE 8.48 358 P 23 42.70 0.0

NJ2 9.72 346 Pd 23 58.00 -1.8

WHN 10.19 322 eP 24 04.00 -2.4

QIZ 11.49 254 eP 24 31.90 7.7X

GYA 14.07 289 iPd 24 59.00 0.3

XAN 15.90 319 eP 25 24.00 1.5

TIY 16.98 335 eP 25 38.60 2.3

KMI 17.37 282 eP 25 48.50 7.1X

CD2 17.89 301 eP 25 47.60 0.0

BJI 17.98 347 eP 25 50.00 1.4

	1.0s	11.00nm	3.9mb																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												</
--	------	---------	-------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

02d 12h

BHB 0.35 356 P 13 49.04 0.2
S 13 53.93
ROB 0.45 116 P 13 51.29 0.4
S 13 57.65
RRL 0.56 319 P 13 53.03 -0.2
S 14 00.41
RSP 0.66 357 P 13 53.89 -1.0
S 14 02.61
FIN 0.71 113 P 13 55.59 -0.1
S 14 05.48
IMI 0.72 144 P 13 55.39 -0.5
S 14 04.72
PCP 0.89 86 P 13 59.29 0.5
S 14 11.35
LSD 0.97 354 P 14 00.37 0.1
S.D. = 0.5 on 12 of 12 obs.

? APR 02, 1991 12h 42m 14.60 ± 3.86s
0.185 N ± 16.1km 79.037 W ± 24.8km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF ECUADOR (105)
MD 3.1 (QUI).

YANA 0.55 123 iP+ 42 26.00 -0.1
eS 42 34.50
GGP 0.57 129 iPd 42 26.00 -0.5
OUR 0.62 125 iP 42 26.70 -0.7
S 42 36.70
COTA 0.71 78 iP+ 42 28.80 -0.2
S 42 40.90
VC1 1.03 142 P 42 34.20 -0.3
CAYA 1.06 96 P 42 34.60 -0.3
eS 42 51.90
TUNG 1.70 160 eP 42 44.50 -0.3
S 43 08.00
S.D. = 0.2 on 7 of 7 obs.

APR 02, 1991 12h 51m 59.51 ± 1.18s
36.603 N ± 6.8km 71.015 E ± 6.5km
DEPTH = 235.0 ± 13.7 km
4.7mb (16 obs.)
AFGHANISTAN-USSR BORDER REGION (717)

QUE 7.24 209 iPd 53 43.50 -0.5
0.9s 129.41nm 5.0mb
eS 55 03.50
NDI 9.47 145 iPc 54 11.40 -1.0
0.8s 74.63nm 4.9mb
eS 59 51.00
WMO 14.63 55 iPd 55 16.00 -1.0
S 57 54.50
POO 18.17 171 eP 55 58.00 0.8
LSA 18.19 106 P 56 00.00 2.1
HYB 20.24 159 eP 56 18.50 0.3
eS 59 53.50
BEE 20.40 245 iP 56 20.40 0.8
0.3s 38.00nm 5.4mb
SHL 20.94 116 eP 56 25.50 0.4
GTA 22.82 74 Pd 56 44.80 1.5
1.2s 30.00nm 4.7mb
LZH 26.38 81 e(P) 57 32.50 16.3X
i 57 49.00
i 58 27.50
KOD 26.89 166 eP 57 22.00 0.9
OBN 29.85 319 iP 57 47.00 0.4
0.5s *****nm 8.4mb X
e 58 55.00
TIY 32.84 75 eP 58 12.00 -1.0
PP 59 01.80
KAF 37.55 327 iP 58 52.60 0.3
0.4s 3.90nm 4.3mb
NUR 37.75 324 iP 58 54.50 0.5
0.4s 22.90nm 5.1mb
KRA 38.76 307 eP 59 02.60 0.1
SOD 39.65 335 iP 59 10.30 0.8
KEV 40.71 338 eP 59 18.00 -0.2
UPP 41.00 322 iP 59 21.00 0.3
BRG 42.57 308 e(P) 59 33.60 0.0
1.2s 15.00nm 4.3mb
iSg 18 11.00
HFS 42.99 322 eP 59 36.50 -0.4
0.6s 25.40nm 4.8mb
NB2 44.31 323 P 59 46.60 -0.8
0.7s 15.60nm 4.5mb
MBC 67.23 3 ePc 02 30.00 0.1
0.5s 10.00nm 4.8mb
BUL 69.20 223 P 02 41.80 -1.0

0.6s 10.67nm 4.7mb
ANM 69.93 23 eP 02 47.80 1.2
IMA 72.02 18 ePc 02 59.30 0.1
0.9s 6.90nm 4.4mb
TTA 73.92 20 eP 03 11.00 0.8
FBA 74.37 16 ePc 03 13.10 0.5
0.9s 16.30nm 4.8mb
FRB 74.97 343 eP 03 16.00 0.0
TOA 77.15 17 eP 03 25.40 -2.8
YKA 81.14 3 eP 03 49.20 -0.2
0.6s 3.70nm 4.3mb
WRA 82.04 122 P 03 53.00 -1.7
0.7s 7.30nm 4.5mb
WB2 82.04 122 iPc 03 53.50 -1.3
0.5s 10.90nm 4.8mb
S.D. = 1.0 on 32 of 33 obs.

* APR 02, 1991 12h 55m 39.82 ± 1.03s
42.600 N ± 10.5km 24.117 E ± 7.4km
DEPTH = 10.0km (geophysicist)
BULGARIA (359)

PGB 0.06 144 iPgc 55 41.00 -1.2
PLD 0.66 139 iPgc 55 52.00 -0.9
VTS 0.67 270 iPgc 55 53.00 -0.3
RZN 1.01 154 iP 55 58.00 -1.1
PVL 1.09 55 eP 55 59.00 -1.2
DIM 1.19 117 eP 56 04.00 2.1
KZD 1.36 134 iPc 56 05.00 0.3
VAY 1.72 223 ePn 56 11.00 1.0
JMB 1.83 93 ePg 56 13.00 1.5
S.D. = 1.5 on 9 of 9 obs.

? APR 02, 1991 13h 29m 16.54 ± 3.92s
45.789 N ± 29.0km 26.735 E ± 11.1km
DEPTH = 121.0 ± 31.8 km
ROMANIA (358)

VRI 0.08 355 iPc 29 33.00 0.4
CVO 0.39 275 iPc 29 33.50 -0.8
MLR 0.63 242 iPc 29 35.00 -0.9
ISR 0.67 192 iPd 29 36.30 0.2
CFR 1.17 121 iPd 29 40.00 -0.6
CMP 1.30 247 ePc 29 44.00 1.8
MTUR 1.30 245 eP 29 42.00 -0.3
COZ 1.74 255 ePc 29 48.00 0.5
PSN 2.35 153 iPc 29 56.00 1.1
PVL 2.76 202 eP 30 00.00 -0.3
VTS 4.08 220 eP 30 17.00 -1.2
S.D. = 1.1 on 11 of 11 obs.

& APR 02, 1991 15h 41m 16.96s
59.539 N 153.435 W
DEPTH = 112.6km
SOUTHERN ALASKA (2)
<AEIC>.

AUI 0.20 179 eP 41 32.32 1.0
eS 41 44.01
PDB 0.46 303 iP 41 33.26 -0.8
eS 41 45.83
MCNL 0.58 233 eP 41 34.24 -0.7
eS 41 47.19
CDD 0.62 190 iP 41 34.29 -0.9
eS 41 48.57
XLV 0.88 95 eP 41 36.76 -0.7
eS 41 52.14
HOM 0.92 82 eP 41 36.29 -1.5
eS 41 53.28
RED 0.94 20 iP 41 37.18 -1.0
RSO 0.99 20 iP 41 37.87 -0.9
eS 41 56.01
RS2 0.99 20 iP 41 37.90 -0.9
RDW 1.00 18 iP 41 37.91 -1.0
REF 1.02 21 iP 41 38.15 -1.0
RDN 1.03 19 iP 41 38.34 -0.8
NCT 1.06 14 iP 41 38.49 -0.9
SYI 1.08 149 eP 41 38.23 -1.2
eS 41 54.56
CNPM 1.12 90 eP 41 38.85 -1.1
eS 41 55.38
DFR 1.12 19 iP 41 39.13 -0.9
eS 41 56.48
RDT 1.16 26 iP 41 39.37 -1.1
NNL 1.19 64 eP 41 40.73 0.0
BRLK 1.31 79 eP 41 40.45 -1.7
CKL 1.75 18 iP 41 46.64 -0.9

SPU 1.79 22 eP 41 46.86 -1.0
BGL 1.81 16 iP 41 47.54 -0.7
CRP 1.85 20 eP 41 47.89 -0.9
SLKM 1.88 58 eP 41 47.89 -1.2
NCG 1.98 18 eP 41 49.98 -0.4
SUA 2.35 33 eP 41 54.37 -0.8
eS 42 22.82
PMS 2.57 47 eP 41 56.70 -1.4
SKT 2.62 20 eP 41 57.58 -1.1
S 42 28.41
PWA 2.75 38 eP 41 58.49 -1.9
LTI 2.87 77 eP 42 00.20 -1.7
PLRM 2.96 44 eP 42 00.40 -2.6
KNIM 2.98 72 eP 42 01.00 -2.5
KNK 3.10 51 eP 42 02.78 -2.3
CUT 3.26 27 eP 42 05.36 -1.9
34 obs. associated

? APR 02, 1991 16h 05m 53.17 ± 7.12s
4.454 S ± 77.0km 145.163 E ± 30.4km
DEPTH = 33.0km (normal)
4.7mb (2 obs.)
NEAR N COAST OF PAPUA NEW GUINEA(200)
ML 4.8 (PMG).

YYYY 1.95 156 iPc 06 25.40 0.7
MNDI 2.26 222 eP 06 39.40 10.2X
PMG 5.30 158 eP 07 09.00 -3.2X
WB2 18.65 213 iPd 10 10.30 -0.4
0.7s 12.80nm 4.2mb
RMO 22.18 171 iPc 10 48.20 0.0
0.5s 40.00nm 5.1mb
BRS 23.94 163 iPd 11 03.50 -1.9X
CMS 26.90 179 iPd 11 31.60 -1.5
STK 27.49 187 eP 11 57.10 18.6X
0.7s 13.50nm
WARB 27.95 218 eP 11 44.00 1.2
S.D. = 1.5 on 5 of 9 obs.

APR 02, 1991 18h 00m 12.63 ± 0.12s
39.489 N ± 2.9km 80.536 E ± 2.2km
DEPTH = 10.0km (geophysicist)
5.2mb (70 obs.) 4.1MsZ (7 obs.)
SOUTHERN XINJIANG, CHINA (321)

WMO 6.89 49 iPnd 01 57.10 0.9
Pg 02 09.00
GAR 7.95 270 eP 02 12.40 1.3
eS 03 59.00
NDI 11.12 195 iPc 02 55.00 0.3
0.5s 281.69nm 6.9mb X
eS 04 49.00
QUE 14.50 234 iPd 03 34.90 -5.0X
0.8s 204.85nm 5.8mb
eS 06 11.90
GTA 14.90 84 iPd 03 43.60 -1.5
0.4s 40.00nm 5.3mb
Z 20s 1.00um
PP 03 52.40
SS 06 42.00
SHL 16.84 142 eP 04 11.00 0.8
iS 07 19.00
LZH 18.72 93 iPc 04 33.00 -0.5
1.5s 96.00nm 4.8mb
Z 25s 1.04um
PP 04 39.50
PP 04 49.50
eS 08 02.00
CD2 20.78 107 iPc 04 56.80 0.5
1.0s 60.00nm 4.9mb
IRK 20.80 44 eP 04 57.00 0.7
1.5s *****nm 7.5mb X
Z 17s 0.69um 4.1MsZ X
e 05 08.00
e 05 25.50
e 05 52.50
eSg 10 03.00
LR 13 00.00
POO 21.67 197 iPd 05 06.30 0.8
HYB 22.06 185 iPd 05 09.60 0.2
0.8s 150.00nm 5.5mb
eS 09 30.00
BTO 22.56 78 P 05 14.50 0.3
XAN 23.33 95 P 05 22.00 0.2
KMI 23.52 121 eP 05 25.00 1.1
HHC 23.69 77 eP 05 24.00 -1.3
1.0s 55.00nm 5.1mb

TIY	24.93	84 Pc	05 38.00	0.7		CLL	47.26	308 iPc	08 48.00	0.5		MFF	56.97	306 eP	09 59.40	-1.0	
	1.2s	170.00nm	5.6mb				1.1s	2.10nm	4.1mb	X			1.0s	24.00nm	5.2mb		
Z	20s	0.63um	4.1MsZ									LFF	57.10	304 eP	10 01.20	-0.1	
GYA	25.38	113 iPc	05 42.80	1.1		KHC	47.43	305 iP	08 50.00	1.0		EPF	58.18	302 eP	10 08.40	-0.6	
	1.0s	100.00nm	5.5mb									BRW	62.31	18 ePc	10 37.20	0.4	
GBA	25.93	187 Pd	05 45.60	-1.1		WET	47.87	305 iPc	08 53.50	1.1		TOL	62.57	300 iPc	10 39.00	0.0	
	0.6s	17.50nm	4.9mb				1.0s	13.00nm	5.0mb				0.9s	33.61nm	5.5mb		
TAB	26.62	278 eP	06 08.00	14.9X		MOL	48.22	324 eP	08 54.78	-0.2		MBC	63.85	5 ePc	10 46.20	-0.7	
BJI	27.29	77 eP	05 59.00	-0.1		TRI	48.26	300 iP	08 55.90	0.4		ANM	64.22	26 ePc	10 50.50	1.0	
	1.0s	12.00nm	4.6mb								GDH	66.42	344 iPd	11 03.60	0.0		
BDT	27.37	139 eP	05 58.30	-1.7		MOX	48.27	307 eP	08 56.50	1.0			0.9s	50.42nm	5.7mb		
BEE	28.45	251 iP	06 23.10	13.5X								IFR	66.61	295 iP	11 06.00	0.4	
	0.4s	2.00nm				GRF	48.76	306 ePc	09 01.00	1.7		IMA	66.82	21 iPc	11 06.40	0.1	
LOE	28.69	134 eP	06 12.00	0.1			0.9s	40.00nm	5.5mb				0.6s	19.00nm	5.5mb		
TIA	28.95	85 eP	06 14.10	0.0		Z	25s	0.20um	4.0MsZ	X		FBA	69.30	20 iPc	11 22.10	0.4	
WHN	28.96	97 Pc	06 15.00	0.8									0.8s	28.80nm	5.5mb		
	0.8s	10.00nm	4.7mb			OSS	50.35	303 ePd	09 12.00	0.3							
		PP	06 20.50			VDL	50.85	303 ePd	09 15.50	-0.1		SVW	69.86	25 ePc	11 26.70	1.5	
KOD	29.26	186 eP	06 18.00	0.6		ABH	50.99	307 eP	09 28.70	12.3X		PMR	71.54	23 eP	11 35.00	-0.2	
KHT	29.27	142 eP	06 17.80	0.7		LLS	51.03	303 ePd	09 16.80	-0.1			1.0s	32.20nm	5.4mb		
NJ2	31.78	91 Pc	06 39.40	0.2		SLE	51.06	304 ePd	09 17.30	0.4		TOA	71.98	21 iPc	11 38.90	0.9	
QIZ	32.47	120 eP	06 48.60	3.2X		CDF	51.62	306 eP	09 20.90	-0.4		SLKM	72.05	24 eP	11 38.00	-0.4	
SNY	32.49	72 iPc	06 44.70	-0.6			0.9s	16.40nm	5.0mb								
	0.6s	30.00nm	5.4mb			MEM	51.71	309 P	09 36.20	14.5X		BALM	73.98	20 eP	11 49.90	0.5	
OBN	33.01	313 iP	06 50.00	0.3		MMK	51.98	302 ePd	09 23.90	-0.3							
	1.0s	*****nm	8.2mb	X		BSF	52.12	305 eP	09 24.50	-0.6		FRB	74.22	346 ePc	11 50.20	-0.7	
		i	07 01.50				0.7s	27.55nm	5.3mb			BUL	76.61	229 iPd	12 05.00	-0.3	
		e	07 17.00			DIX	52.33	303 ePd	09 27.30	0.4							
		e	09 33.00			HAU	52.34	305 eP	09 26.20	-0.5							
		LO	17 00.00				0.9s	9.85nm	4.7mb			BAL	77.42	149 eP	12 08.50	-0.9	
CN2	33.52	68 P	06 53.80	-0.5		PGF	52.57	298 eP	09 28.10	-0.4							
	1.0s	10.00nm	4.7mb				0.8s	13.45nm	4.9mb			WRA	77.58	129 P	12 10.00	-0.5	
Z	15s	0.60um	4.4MsZ			EMS	52.65	303 ePd	09 29.20	0.0			1.0s	18.70nm	5.1mb		
N	10s	0.30um				DOU	52.73	308 P	09 42.00	12.5X		WB2	77.58	129 iPd	12 10.50	-0.1	
E	10s	0.30um				LPG	52.97	302 iP	09 31.50	-0.2			0.4s	23.10nm	5.6mb		
		ePP	07 06.00			LPL	52.98	302 iPc	09 31.70	0.0							
SSE	33.99	91 Pd	06 59.40	1.0		SBF	53.13	300 eP	09 32.20	-0.4		YKA	77.64	7 eP	12 09.60	-0.6	
	1.0s	140.00nm	5.8mb				0.6s	33.35nm	5.5mb				0.6s	22.50nm	5.4mb		
Z	20s	0.50um	4.2MsZ			SURF	53.31	301 P	09 33.93	-0.1		WARB	78.22	139 iPc	12 14.10	0.1	
		SP	07 09.50			GRN	53.72	302 P	09 36.99	0.0		MUN	78.44	150 eP	12 14.70	-0.3	
MDJ	36.34	66 P	07 18.30	-0.1		FRF	53.77	300 eP	09 36.70	-0.5		COOL	79.54	145 eP	12 20.00	-1.1	
	1.0s	27.00nm	5.0mb				0.9s	16.40nm	5.0mb								
YAK	37.15	36 iP	07 24.40	-0.5		LMR	53.95	300 eP	09 38.00	-0.5		LKO	81.03	275 P	12 29.20	-0.3	
		epP	07 38.00	51kmX			1.0s	16.00nm	5.0mb			QIS	81.28	126 iPc	12 30.40	-0.1	
		ePCP	09 37.00			LRG	54.00	300 eP	09 33.60	-5.3X							
		eS	13 07.00				1.0s	18.00nm	5.1mb								
		e	20 18.00			Z	22s	0.15um	4.0MsZ			SCH	81.98	342 eP	12 33.00	-0.8	
IPM	39.39	147 ePc	07 43.60	-0.6		DAG	54.02	344 iPd	09 38.00	-0.6		KIC	82.35	272 Pc	12 36.60	0.3	
VRI	39.43	297 eP	07 47.50	3.2X			0.6s	30.00nm	5.5mb				0.7s	14.50nm	5.2mb		
KAF	39.50	323 iP	07 45.20	0.6								TIC	82.39	272 Pc	12 36.80	0.3	
	0.5s	5.30nm	4.5mb			LOR	54.18	305 eP	09 38.90	-1.3		LIC	82.66	272 Pc	12 38.10	0.2	
MLR	40.04	297 eP	07 52.50	3.0X			0.9s	13.90nm	5.0mb			CTA	85.25	121 iPc	12 51.00	0.2	
NUR	40.08	320 iP	07 50.20	0.8		Z	21s	0.10um	3.9MsZ				0.9s	49.58nm	5.7mb		
	0.6s	15.80nm	4.9mb			LBF	54.21	305 eP	09 39.20	-1.3		FFC	86.13	1 iPc	12 54.30	-0.5	
PSI	40.26	151 ePc	08 05.10	13.7X			0.9s	15.55nm	5.0mb				0.7s	27.00nm	5.5mb		
SOD	40.50	331 iP	07 53.50	0.7		SMF	54.43	304 iPc	09 41.10	-0.9		PNT	89.80	13 ePc	13 12.00	-0.6	
KEV	41.07	335 iP	07 58.50	1.0			0.8s	24.20nm	5.3mb				0.8s	29.00nm	5.6mb		
	0.7s	24.00nm	5.0mb			SSF	54.48	305 eP	09 41.40	-1.0		SES	89.92	7 ePc	13 12.00	-1.1	
TNR	41.16	298 ePd	08 02.00	3.5X			0.8s	14.10nm	5.0mb			STK	90.82	132 eP	13 36.40	19.2X	
KTK1	42.14	333 eP	08 06.79	0.5		AVF	54.68	305 iPc	09 43.10	-0.8			1.1s	2.20nm			
SPC	43.15	304 eP	08 15.70	0.7			0.7s	33.05nm	5.5mb			NEW	91.23	12 iP	13 19.30	0.1	
VAY	43.47	292 eP	08 18.50	1.1		BGF	55.09	305 eP	09 46.00	-0.9			0.8s	10.21nm	5.2mb		
		i	08 31.70			EKA	55.36	316 Pc	09 49.10	0.4							
UPP	43.56	319 iP	08 17.70	-0.2			0.8s	19.80nm	5.2mb			GAC	92.50	343 eP	13 26.00	1.0	
		i	08 31.50			MAF	55.40	304 eP	09 48.80	-0.4			0.9s	13.00nm	5.3mb		
KSP	45.33	307 iP	08 33.30	1.0			0.9s	16.40nm	5.1mb			RSNY	93.38	342 eP	13 30.00	0.9	
	0.8s	30.00nm	5.3mb			TCF	55.60	305 eP	09 50.00	-0.6			1.0s	14.10nm	5.3mb		
		i	08 45.00			LSF	1.1s	30.50nm	5.2mb								
ZST	45.39	303 eP	08 33.60	0.8		LDF	56.05	305 eP	09 52.70	-1.1		LRM	94.28	9 eP	13 33.20	-0.4	
		e	10 35.30				56.15	308 iP	09 53.50	-1.0		RSSD	96.67	3 eP	13 44.10	-0.4	
HFS	45.52	320 eP	08 33.90	0.2			0.7s	14.35nm	5.1mb				1.0s	15.73nm	5.5mb		
	0.7s	35.70nm	5.4mb			CAF	56.25	303 eP	09 55.10	-0.2							
Z	19s	0.19um	4.1MsZ				0.7s	8.80nm	4.9mb			SPA	129.30	180 ePKP	19 22.00	0.1	
		LR	26 40.00			FLN	56.30	308 eP	09 54.40	-1.2			0.9s	14.09nm			
LOF	45.53	331 eP	08 33.53	-0.1			0.8s	10.75nm	4.9mb			SIV	139.18	294 PKP	19 39.00	-2.9X	
NSS	46.10	326 eP	08 37.81	-0.4			Z	21s	0.17um	4.1MsZ		ZOBO	144.21	301 PKP	19 49.00	-2.5X	
PRU	46.61	306 P	08 43.50	1.1		RJF	56.44	304 eP	09 56.50	-0.2		LPB	144.38	301 PKP	19 59.00	7.5X	
	1.0s	13.00nm	4.9mb				1.0s	20.00nm	5.1mb			CNCB	144.50	301 PKP	19 51.00	-0.9	
		e	08 55.50			Z	21s	0.13um	4.0MsZ			ARE	146.53	305 ePKP	19 57.00	2.0	
NB2	46.66	321 P	08 42.70	-0.1		GRR	56.68	308 eP	09 57.30	-1.0							
	0.7s	30.90nm	5.5mb				0.7s	22.05nm	5.3mb								
PTJ	46.74	300 iPc	08 44.30	0.7		LPO	56.91	303 eP	09 59.60	-0.5							
BRG	46.78	307 iP	08 44.80	1.0			0.7s	12.15nm	5.0mb								
	1.1s	42.00nm	5.4mb			LPF	56.94	308 eP	09 58.90	-1.2							
		i	08 56.60														

S.D. = 0.7 on 135 of 151 obs.

* APR 02, 1991 18h 05m 49.26±1.48s
27.340 N ± 8.3km 139.724 E ±12.0km
DEPTH = 506.0 ± 17.4 km

02d 18h

4.3mb (8 obs.)
BONIN ISLANDS REGION (212)

MAT	9.26	352	eP	08 00.00	-0.1
	0.7s	13.70nm		4.4mb	
		(S)			
BDT	38.84	264	eP	12 32.70	1.2
WB2	47.29	187	iPc	13 37.80	-0.1
	0.7s	25.80nm		4.8mb	
WRA	47.29	187	P	13 37.00	-0.9
	1.0s	13.10nm		4.4mb	
BRS	55.84	166	iPd	14 40.50	0.4
FORR	58.92	192	iPd	15 00.70	-0.3
STK	58.92	178	iPd	15 20.50	19.5X
	0.4s	6.60nm			
GBA	59.40	270	Pd	15 04.10	-0.6
	0.8s	9.00nm		4.2mb	
POO	60.70	277	iPc	15 13.60	0.4
QUE	62.83	292	eP	15 28.20	1.2
KEV	72.02	340	eP	16 21.00	-1.3
SOD	73.37	338	iP	16 30.80	0.8
NUR	77.85	333	eP	16 55.00	0.2
SES	80.59	38	eP	17 09.00	-0.4
UPP	81.03	334	iP	17 10.20	-1.2
LRM	82.18	42	eP	17 19.10	1.2
HFS	82.32	336	eP	17 17.00	-1.0
	1.1s	15.90nm		4.5mb	
N82	82.56	337	P	17 18.70	-0.5
	0.7s	6.30nm		4.3mb	
ANMO	91.98	49	eP	18 05.70	1.0
	1.0s	1.00nm		3.8mb	
ALO	91.99	49	eP	18 05.00	0.2
	0.9s	2.52nm		4.2mb	
RTLL	155.13	106	iPKPd	24 48.60	3.4X
	S.D. = 0.9	on 19 of 21 obs.			

APR 02, 1991 19h 21m 45.89±0.65s
46.471 N ± 8.1km 5.380 E ± 5.8km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.7 (LDG). MD 2.7 (STR).

SMF	1.08	280	Pg	22 06.10	0.0
			Sg	22 20.40	
LBF	1.09	299	Pg	22 06.80	0.3
			Sg	22 21.60	
RSL	1.17	132	Pg	22 07.28	-0.5
			Sg	22 21.73	
LOR	1.31	308	Pn	22 09.40	-0.8
			Sg	22 28.60	
PLDF	1.32	248	Pg	22 10.10	-0.2
			Sg	22 26.30	
LPL	1.34	135	Pg	22 10.40	-0.4
LPG	1.36	135	Pg	22 10.80	-0.4
			Sg	22 27.60	
SSF	1.42	295	Pn	22 11.20	-0.5
			Sg	22 31.00	
AVF	1.43	284	Pn	22 11.50	-0.4
			Pg	22 12.80	
			Sg	22 30.80	
AGO	1.62	256	Pg	22 16.50	2.0
			Sg	22 35.50	
BSF	1.67	35	Pg	22 18.00	2.6
			Sg	22 39.80	
HAU	1.67	23	Pn	22 14.00	-1.3
			Pg	22 18.60	
			Sg	22 40.00	
BGF	1.75	274	Pn	22 15.20	-1.3
			Sg	22 40.40	
PYM	1.80	247	Pg	22 19.80	2.5
			Sg	22 41.60	
MAF	1.96	264	Pn	22 18.00	-1.6
			Sg	22 46.80	
TCF	2.20	266	Pg	22 26.40	3.3X
			Sg	22 54.50	
CDF	2.33	33	Pg	22 30.00	5.1X
CAF	2.79	238	Pg	22 37.00	5.6X
			Sg	23 12.20	
	S.D. = 1.4	on 15 of 18 obs.			

? APR 02, 1991 19h 39m 12.74±7.57s
30.753 S ±57.7km 68.878 W ±16.8km
DEPTH = 10.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.67	149	ePd	39 24.90	-1.2
RTCB	0.73	175	ePd	39 25.30	-1.9

ZON	0.81	168	eS	39 38.40	
			e(P)	39 28.00	-0.5
			eS	39 47.00	
CFA	1.01	147	ePd	39 30.80	-1.1
			eS	39 51.00	
MDZ	2.12	179	eP	39 49.50	0.7
			iS	40 24.20	
PEL	2.84	212	iPd	39 57.50	-1.4
			iS	40 40.50	
	S.D. = 1.2	on 6 of 6 obs.			

? APR 02, 1991 19h 52m 24.89±0.94s
13.756 S ±12.0km 35.765 E ±10.4km
DEPTH = 33.0km (normal)
MOZAMBIQUE (581)
mbLg 3.8 (BUL).

NPA	3.63	112	ePn	53 20.00	-0.2
	0.4s	280.00nm			
			S	53 32.30	
			eSn	54 32.30	
			e	55 21.50	
MTD	5.03	233	ePn	53 41.00	0.8
			iSn	54 41.10	
			iSg	55 10.30	
KRI	6.68	242	iPn	54 02.00	-1.4
			iSn	55 18.20	
			iSg	55 57.10	
BUL	9.33	226	iPn	54 41.00	0.6
			iSn	56 26.90	
			iSg	57 24.00	
NAI	12.44	5	eP	55 23.00	0.2
	S.D. = 1.2	on 5 of 5 obs.			

? APR 02, 1991 20h 01m 42.39±21.14s
47.260 N ±149.km 113.139 W ±79.0km
DEPTH = 5.0km (geophysicist)
MONTANA (456)
ML 3.0 (BUT).

HRY	1.05	121	eP	02 02.80	0.1
			iS	02 18.90	
BUT	1.31	162	ePg	02 09.00	1.8X
			eSn	02 27.50	
			iSg	02 30.20	
HBMT	1.51	166	ePn	02 10.60	0.2
LRM	1.51	161	eP	02 10.50	0.1
SXM	1.73	129	ePn	02 13.50	0.0
BCMT	2.17	159	ePn	02 19.60	-0.2
MEMT	2.23	137	ePn	02 27.00	6.2X
NEW	2.87	292	e(P)	02 35.00	5.3X
	S.D. = 0.2	on 5 of 8 obs.			

% APR 02, 1991 21h 50m 06.50±1.43s
23.917 N ± 6.5km 121.764 E ±14.5km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWD	0.22	316	iPc	50 10.80	-0.5
			eS	50 13.80	
TWC	0.69	6	iPc	50 20.30	0.1
			eS	50 31.00	
TWF1	0.71	217	ePc	50 20.20	-0.2
TWO	0.92	293	ePc	50 24.60	0.5
TWG	1.26	210	eP	50 30.10	0.1
	S.D. = 0.5	on 5 of 5 obs.			

& APR 02, 1991 22h 07m 13.79s
60.248 N 152.819 W
DEPTH = 123.2km
SOUTHERN ALASKA (2)
<AEIC>.

RED	0.17	8	iPc	07 30.23	0.8
			eS	07 43.54	
RSO	0.22	9	iPc	07 30.58	0.8
			eS	07 44.46	
RS2	0.22	8	iPc	07 30.58	0.8
			eS	07 45.30	
RDW	0.24	1	iPc	07 30.57	0.8
REF	0.25	13	iPc	07 30.72	0.9
			eS	07 44.69	
RDN	0.27	6	ePc	07 30.59	0.8
			eS	07 44.28	
NCT	0.32	350	iPc	07 30.85	0.9
			eS	07 44.10	
DFR	0.35	11	iPc	07 30.72	-1.0

RDT	0.39	32	iPc	07 31.02	-0.8
			eS	07 45.16	
NNL	0.79	105	ePc	07 34.64	0.2
PDB	0.83	237	iPd	07 33.87	-0.9
			eS	07 49.44	
HOM	0.84	134	ePc	07 34.66	-0.2
			eS	07 50.58	
NKA	0.93	57	eP	07 36.05	0.4
AUI	0.97	199	eP	07 35.05	-1.0
			eS	07 51.68	
XLV	0.97	145	eP	07 35.64	-0.5
CKL	0.98	14	iPd	07 35.53	-0.8
			eS	07 52.66	
SPU	1.01	22	iPd	07 35.55	-1.0
			iS	07 52.74	
BGL	1.04	11	iPd	07 36.29	-0.6
CRP	1.07	17	iPd	07 36.56	-0.7
			eS	07 54.58	
CNPM	1.08	132	ePc	07 36.60	-0.6
			eS	07 54.18	
BRLK	1.09	116	eP	07 36.16	-1.1
			eS	07 54.58	
NCG	1.20	15	ePd	07 37.73	-0.9
MCNL	1.31	216	ePd	07 38.59	-1.1
SLKM	1.32	77	eP	07 38.66	-1.1
CDD	1.39	198	eP	07 39.36	-1.2
SUA	1.59	39	iPd	07 42.02	-0.9
			eS	08 04.49	
SYI	1.66	172	ePd	07 40.99	-2.6
SEW	1.69	93	eP	07 42.65	-1.3
SKT	1.85	19	iPd	07 44.57	-1.4
			eS	08 09.21	
PMS	1.89	57	ePc	07 44.98	-1.5
PWA	2.01	44	eP	07 46.48	-1.5
GHO	2.44	49	ePc	07 51.32	-2.2
KNK	2.44	59	eP	07 51.19	-2.3
CUT	2.49	28	eP	07 52.81	-1.3
			eS	08 22.73	
LTI	2.49	93	eP	07 52.35	-1.8
KNIM	2.53	86	eP	07 52.78	-1.9
			eS	08 21.77	
WRH	4.78	25	ePd	08 22.14	-2.6
HDA	4.99	31	ePd	08 25.00	-2.6
CCB	4.99	26	eP	08 24.87	-2.8
RDS	5.08	23	eP	08 26.17	-2.7
MDM	5.18	22	ePd	08 27.62	-2.7
FBA	5.21	24	eP	08 28.22	-2.5
	42 obs. associated				

? APR 02, 1991 23h 54m 21.89±1.57s
17.708 N ±23.9km 145.781 E ±26.7km
DEPTH = 33.0km (normal)
4.6mb (5 obs.)

MARIANA ISLANDS (216)					
CHJJ	19.23	343	P	58 46.20	0.0
MAT	19.92	342	eP	58 54.00	0.2
MTMJ	20.08	341	P	58 55.40	-0.2
NIJJ	20.35	344	P	58 57.60	-0.6
YAMJ	21.00	347	eP	59 05.70	0.8
OFUJ	21.59	351	eP	59 11.60	0.7
GUN	55.68	292	P	04 00.00	2.0
MBC	74.09	14	eP	05 50.00	-6.1X
	0.5s	4.00nm		4.7mb	
YKA	78.82	28	eP	06 22.30	-0.5
	0.5s	2.40nm		4.5mb	
LRM	85.40	43	eP	06 59.30	1.6
KAF	87.35	336	eP	07 04.60	-2.0
	0.4s	1.60nm		4.6mb	
FFC	87.88	33	eP	07 10.00	0.7
	0.8s	9.00nm		5.1mb	
HFS	93.33	338	ePKP	07 32.00	-2.6
	0.5s	1.00nm		4.5mb	
	S.D. = 1.5	on 12 of 13 obs.			

? APR 03, 1991 02h 05m 53.93±2.05s
43.590 N ±24.0km 147.552 E ±25.7km
DEPTH = 33.0km (normal)
4.2mb (3 obs.)

KURIL ISLANDS (221)					
KUSJ	2.13	258	iPd	06 26.50	-1.4
			S	06 45.40	
HODJ	3.35	250	iP+	06 46.00	0.8
			eS	07 18.90	
ASAJ	3.59	280	eP	06 50.80	2.2X
MRRJ	4.89	258	eP	07 07.80	0.8

OFUJ	6.32	226	P	eS	07 57.90	-0.2	CD2	44.53	320	eP	07 36.20	3.2X	NNL	1.02	78	iPc	35 53.14	0.2	
				eS	08 30.80		TIY	44.85	334	Pc	07 39.60	4.1X	CNPM	1.09	107	iPc	35 52.60	-1.0	
YKA	55.77	34	eP	15 33.00	3.5X		Z	30s	0.79um			4.5MsZ				eS	36 09.74		
	0.6s		0.50nm		3.7mb		E	20s	1.40um							iPc	35 53.95	-1.0	
NB2	69.86	339	P	17 03.10	0.2					14 06.50			BRLK	1.21	93	iPc	36 11.69		
	0.4s		0.90nm		4.2mb		BJI	45.34	339	eP	07 39.00	-0.2				eS	35 54.86	-1.2	
HFS	69.95	337	eP	17 03.30	-0.1			1.4s	33.00nm		5.1mb		SYI	1.33	159	iPc	36 14.49		
	0.4s		2.20nm		4.6mb		Z	20s	0.90um		4.7MsZ		NKA	1.35	48	iPd	35 57.25	0.9	
S.D. = 1.0 on 6 of 8 obs.									eS	14 24.00		CKL	1.43	19	iPd	35 56.70	-0.7		
APR 03, 1991 02h 59m 22.44 ± 0.47s							CN2	46.35	350	eP	07 50.00	2.8X	SPU	1.47	24	iPd	35 56.82	-0.9	
1.835 S ± 6.5km 135.680 E ± 11.1km							Z	18s	0.90um		4.8MsZ		BGL	1.48	17	iPd	35 57.49	-0.5	
DEPTH = 33.0km (normol)							HHC	47.83	335	ePP	07 55.00		CRP	1.52	21	iPd	35 57.95	-0.6	
5.1mb (12 obs.) 4.6MsZ (8 obs.)							Z	22s	0.80um		4.6MsZ		NCG	1.65	19	iPd	35 59.30	-0.7	
WEST IRIAN REGION (196)							E	13s	0.40um				SLKM	1.67	65	ePc	35 58.62	-1.4	
CENTROID, MOMENT TENSOR (HRV)							LZH	48.00	325	eP	08 01.80	1.3				eS	36 20.66		
Data Used: GDSN								2.0s	39.00nm		5.1mb		SVW	1.71	318	iPd	35 59.29	-1.3	
L.P.B.: 18S, 27C							Z	28s	0.78um		4.5MsZ		SEW	1.94	81	ePc	36 01.96	-1.4	
Centroid Location:							N	15s	0.44um				SUA	2.04	37	iPd	36 03.73	-1.0	
Origin Time 02:59:23.3 0.7									PP	08 14.50		SKT	2.30	21	iPd	36 06.65	-1.3		
Lot 1.875 0.11 Lon 135.53E 0.10									SP	08 19.00					eS	36 36.31			
Dep 18.4 7.5 Half-duration 1.5							BTO	48.29	334	eP	08 02.50	-0.1	PMS	2.31	51	ePd	36 06.57	-1.5	
Moment Tensor: Scale 10**16 Nm							N	14s	0.40um				PWA	2.46	41	eP	36 08.32	-1.6	
Mrr=-0.91 0.43 Mtt= 2.16 0.61							E	14s	0.40um				PLRM	2.68	48	eP	36 10.32	-2.5	
Mff=-1.25 0.64 Mrt= 5.59 2.80							GTA	52.60	325	Pc	08 36.20	0.6	LTI	2.74	84	eP	36 12.20	-1.4	
Mrf=-3.34 2.06 Mtf= 4.80 0.44								0.8s	10.00nm		4.8mb		KNIM	2.82	77	eP	36 12.18	-2.5	
Principal Axes:							Z	22s	0.70um		4.7MsZ		MTU	2.84	85	ePc	36 13.69	-1.2	
T Vol= 6.98 Plg=27 Azm=340									SP	08 49.20		KNK	2.85	55	iPd	36 12.50	-2.5		
N 2.19 41 97							GUN	56.21	306	P	09 02.08	-0.4	GHO	2.88	46	ePd	36 12.92	-2.5	
P -9.18 37 227							PKI	56.46	305	P	09 02.24	-2.0				eS	36 46.59		
Best Double Couple: Mo=8.1*10**16								0.9s	11.00nm		4.9mb		CUT	2.95	28	eP	36 14.51	-1.8	
NP1: Strike= 18 Dip=41 Slip=-171							KKN	56.65	305	P	09 04.58	-0.9				S	36 48.78		
NP2: 282 84 -49							DMN	56.73	305	P	09 04.54	-1.5	GLI	3.24	69	eP	36 17.97	-2.3	
MTN	11.83	202	eP	02 10.60	-1.3		GKN	57.26	305	P	09 08.92	-0.8	HIN	3.44	78	eP	36 21.08	-1.8	
	0.3s		183.00nm		6.7mb X		KOD	59.16	283	eP	09 25.40	2.1	SCM	3.53	53	ePd	36 21.49	-2.6	
			eS	04 16.00			GBA	59.73	287	Pd	09 24.70	-2.1	VZW	3.55	67	iPc	36 22.01	-2.3	
DAV	13.43	311	eP	02 34.00	0.8			0.6s	2.00nm		4.4mb		HUR	3.59	28	eP	36 23.40	-1.5	
PMG	13.67	124	eP	02 35.00	-1.4		WMO	62.46	323	eP	09 45.40	0.4	VLZ	3.67	67	eP	36 24.41	-1.5	
KNA	15.42	206	eP	02 57.40	-1.8		YAK	63.84	357	eP	09 53.00	-0.6	CVA	3.82	76	eP	36 25.92	-2.1	
	0.6s		85.00nm		5.1mb		MBG	95.31	13	eP	12 48.00	4.0X	TRF	3.88	20	eP	36 27.06	-1.9	
GUA	17.81	31	eP	03 39.00	9.5X		ARE	147.59	125	e(PKP)	19 12.00	8.4X	SGAM	4.09	77	eP	36 29.27	-2.3	
TSM	18.60	289	ePc	03 44.50	5.3X		CNCB	150.19	129	PKPc	19 15.80	7.8X	TOA	4.14	54	eP	36 30.13	-2.2	
QIS	19.00	169	eP	03 41.00	-3.2X		LPB	150.26	129	PKP	19 13.00	5.1X	MCK	4.41	26	eP	36 34.23	-1.7	
			i	03 45.00			ZOBO	150.40	128	PKP	19 15.00	6.7X	TZL	4.42	57	eP	36 33.60	-2.4	
			eS	06 54.00				Z	24s	0.10um		4.5MsZ	HMT	4.54	80	eP	36 36.83	-0.9	
CTA	20.88	151	iPd	04 03.40	-1.0				LR	11 24.00		SDG	4.61	51	eP	36 35.80	-2.8		
	1.3s		198.08nm		5.3mb		CCH	151.23	132	PKP	19 16.90	7.7X	BWN	4.69	21	eP	36 37.80	-1.9	
			iS	08 02.00				S.D. = 1.3 on 31 of 47 obs.				PAX	4.89	47	eP	36 39.63	-2.8		
ASPA	21.77	184	eP	04 14.20	0.8		& APR 03, 1991 03h 35m 29.91s							GLB	4.93	67	eP	36 40.27	-2.7
	0.8s		103.30nm		5.3mb		59.853 N 153.283 W							CROM	5.13	75	ePc	36 43.86	-2.0
Z	20s		2.50um		4.6MsZ		DEPTH = 125.7km							NEA	5.13	21	eP	36 43.05	-2.7
			eS	08 10.10			2.7mb (1 obs.)							WRH	5.23	25	eP	36 44.10	-3.0
OCP	21.84	319	eP	04 02.00	-12.1X		SOUTHERN ALASKA							WAX	5.25	79	eP	36 44.93	-2.4
BAG	23.47	321	eP	04 32.00	1.6		<AEIC>							TGL	5.28	76	eP	36 45.74	-2.0
			eS	08 50.00									DDM	5.28	39	eP	36 46.43	-1.4	
MBL	24.65	218	iPc	04 43.50	2.0		PDB	0.46	262	iPc	35 47.59	-0.9	HDA	5.45	30	eP	36 47.05	-2.9	
	0.8s		35.00nm		5.0mb				iS	36 01.40		CCB	5.45	26	eP	36 46.88	-3.1		
WARB	25.72	199	eP	04 52.50	0.8		AUH	0.50	189	iPc	35 48.14	-0.7	RDS	5.53	23	eP	36 48.59	-2.6	
	0.5s		12.00nm		4.7mb		AUE	0.50	185	iPc	35 47.95	-0.7	BALM	5.54	73	iPc	36 49.66	-1.8	
RMO	27.55	154	eP	05 09.00	0.6		AUI	0.52	188	iPc	35 48.06	-0.8	MDM	5.64	22	eP	36 49.66	-2.9	
FORR	29.74	193	eP	05 27.30	-0.7				eS	36 02.01		FBA	5.67	24	ePd	36 50.44	-2.6		
BRS	30.23	149	iPc	05 33.50	0.9		RED	0.62	24	iPd	35 48.84	-0.8	GLM	5.83	25	ePd	36 52.67	-2.7	
STK	30.40	170	iPc	05 54.00	20.1X				eS	36 03.36		CTGM	6.03	74	iPc	36 56.55	-1.5		
	0.2s		1093.60nm				RS2	0.67	23	iPd	35 49.33	-0.8	YKA	18.64	65	eP	39 37.40	-2.7	
ADE	33.08	175	iPc	05 58.50	1.1				eS	36 04.51			0.5s		0.20nm		2.7mb		
SSE	35.53	338	Pc	06 18.50	0.0		RSO	0.67	23	iPd	35 49.28	-0.8	73 obs. associated						
	1.2s		34.00nm		5.2mb				iS	36 04.47		* APR 03, 1991 04h 07m 28.79 ± 2.62s							
Z	20s		0.60um		4.4MsZ		RDW	0.67	20	iPd	35 49.29	-0.9	26.371 N ± 11.0km 128.589 E ± 12.5km						
N	14s		0.40um						eS	36 04.12		DEPTH = 93.0 ± 22.1 km							
E	14s		1.10um				REF	0.70	24	iPd	35 49.56	-0.8	4.2mb (10 obs.)						
			PP	06 26.60			RDN	0.71	21	iPd	35 49.55	-0.8	RYUKYU ISLANDS (238)						
			SP	06 30.00					eS	36 04.94		SSE	8.02	308	eP	09 25.50	1.0		
			eS	11 52.00			NCT	0.73	14	iPd	35 49.76	-0.7				0.60um			
CNB	35.66	161	ePc	06 21.40	1.8				eS	36 04.94		Z	20s		0.90um				
	1.0s		50.00nm		5.4mb		DFR	0.80	22	iPd	35 50.17	-0.9	N	13s		0.90um			
NJ2	37.29	336	Pd	06 31.60	-1.6				eS	36 05.50		E	13s		0.90um				
	Z	20s	0.60um		4.4MsZ		RDT	0.85	31	iPd	35 50.50	-0.9				PP	09 30.00		
	E	15s	1.10um						eS	36 06.71		BJI	17.11	326	eP	11 23.50	0.1		
			S	12 25.00			HOM	0.85	103	iPc	35 50.79	-0.5	Z	14s		0.59um			
WHN	38.08	329	ePd	06 42.50	2.6X				eS	36 06.75					eS	14 32.00			
	Z	20s	0.60um		4.4MsZ		MCNL	0.86	219	ePd	35 50.35	-1.1	TIY	17.73	314	eP	11 31.00	-0.1	
			SP	06 58.00					eS	36 06.01					0.72um				
			eS	12 30.00			XLV	0.89	116	ePc	35 50.59	-1.1				0.52um			
GYA	39.70	317	P	06 54.40	0.7				eS	36 06.31		XAN	18.62	299	P	11 40.60	-1.2		
TIA	41.62	337	eP	07 13.80	4.6X		CDD	0.94	191	iPc	35 51.20	-1.0	GYA	19.64	275	P	11 53.80	1.1	

03d 04h

N	13s	0.40um			
E	13s	0.80um			
CD2	22.24	288 eP	12 12.60		
LZH	23.22	301 eP	12 16.30	-2.6	
	1.5s	28.00nm	4.4mb		
Z	15s	0.34um	3.9mszx		
E	10s	0.26um			
		PP	12 50.00		
GTA	27.31	306 P	13 05.20	-1.5	
	0.6s	10.00nm	4.6mb		
Z	14s	0.60um	4.3mszx		
WMO	37.28	309 eP	14 33.00	-0.3	
GUN	37.90	282 P	14 40.46	1.4	
PKI	38.36	282 P	14 43.00	0.1	
KKN	38.44	282 P	14 43.66	0.2	
DMN	38.62	282 P	14 45.08	0.1	
GKN	38.97	283 P	14 47.92	0.1	
WRA	46.38	173 P	15 48.00	0.5	
	1.0s	2.10nm	4.0mb		
WB2	46.38	173 eP	15 46.40	-1.1	
	0.7s	1.40nm	3.9mb		
GBA	49.43	265 Pd	16 11.90	0.5	
	1.1s	6.00nm	4.5mb		
MBC	69.61	14 eP	18 28.50	-0.9	
	1.0s	5.00nm	4.3mb		
YKA	78.26	25 eP	19 19.10	-0.4	
	0.8s	1.00nm	3.7mb		
HFS	78.84	332 eP	19 22.60	-0.1	
	0.4s	0.80nm	3.9mb		
NB2	79.33	334 P	19 25.40	0.0	
	1.0s	3.80nm	4.2mb		
CLL	84.22	325 eP	19 53.00	2.1	
FFC	88.32	27 eP	20 12.00	1.0	
	1.0s	12.00nm	4.9mb		
FRB	89.17	8 eP	20 20.00	5.1X	
S.D. = 1.1 on 23 of 24 obs.					

* APR 03, 1991 04h 52m 48.40±1.68s
 13.997 N ±11.6km 87.966 W ±10.9km
 DEPTH = 27.8 ± 11.4 km
 4.3mb (8 obs.)
 HONDURAS (72)
 Felt (iii) at San Salvador, El Salvador.

LFU	1.14	258 iPc	53 07.60	-1.1	
SJAS	1.21	254 iPc	53 08.80	-0.9	
VSS	1.26	259 iPc+	53 09.50	-0.9	
TME	1.35	271 eP	53 19.80	8.3X	
CUSS	1.93	268 iPc	53 14.30	-5.6X	
TPX	4.26	283 iP	54 02.75	9.7X	
		iS	55 00.50		
OXX	8.98	291 (P)	55 01.00	1.5	
IISM	10.30	300 (P)	55 32.50	15.0X	
PPM	11.40	298 (P)	55 34.25	1.3	
MEO	22.81	337 iPd	57 49.60	-0.6	
ALO	26.71	325 eP	58 27.50	0.0	
	0.9s	2.31nm	3.8mb		
ANMO	26.71	325 eP	58 28.00	0.5	
	1.0s	1.25nm	3.5mb		
BW06	34.19	331 eP	59 32.70	-1.1	
	0.8s	1.96nm	4.1mb		
TNP	35.32	318 eP	59 43.90	0.3	
	1.0s	3.00nm	4.2mb		
LRM	37.86	332 eP	00 05.50	0.6	
SES	40.87	337 eP	00 29.00	-0.6	
FFC	42.09	348 eP	00 38.00	-1.4	
	0.8s	6.00nm	4.4mb		
PNT	43.74	330 eP	00 53.00	0.0	
	0.7s	6.00nm	4.5mb		
FRB	51.51	11 eP	01 52.00	-1.4	
MBC	64.43	352 eP	03 23.00	-1.0	
	1.0s	7.00nm	4.7mb		
LKO	80.41	83 P	05 00.12	0.5	
NB2	82.27	29 P	05 09.80	1.3	
	0.9s	3.70nm	4.4mb		
WB2	139.18	256 iPKPc	12 15.40	0.0	
	0.7s	1.40nm			
WRA	139.19	256 PKP	12 15.00	-0.4	
	0.9s	1.80nm			
HYB	146.07	23 iPKPc	12 29.00	1.5	
GBA	149.00	28 PKPd	12 36.30	4.2X	
	0.7s	5.80nm			
S.D. = 1.0 on 21 of 26 obs.					

APR 03, 1991 05h 52m 14.16±0.56s

40.532 N ± 4.6km 22.752 E ± 4.6km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 MD 2.2 (THE).

THE	0.19	58 ePc	52 18.60	0.2	
		eS	52 21.96		
LIT	0.47	205 ePc	52 23.20	-0.6	
		eS	52 29.76		
GRG	0.50	328 ePc	52 23.92	-0.4	
		eS	52 32.00		
SOH	0.54	57 ePc	52 25.32	0.2	
		eS	52 33.24		
KNT	0.64	10 ePd	52 26.88	-0.1	
		eS	52 36.08		
VAY	0.80	350 ePn	52 29.60	-0.1	
SRS	0.87	47 ePc	52 30.40	-0.4	
		eS	52 43.64		
PAIG	0.93	130 ePd	52 32.28	0.3	
		eS	52 44.76		
FNA	1.08	284 ePc	52 35.36	0.9	
		eS	52 50.48		
S.D. = 0.5 on 9 of 9 obs.					

% APR 03, 1991 06h 17m 16.98±0.74s
 0.183 S ± 6.0km 78.366 W ± 5.7km
 DEPTH = 10.0km (geophysicist)

ECUADOR (107)
 MD 3.9 (QUI).

OTO	0.17	261 iPd	17 21.30	0.3	
		S	17 24.30		
YANA	0.22	288 iP+	17 21.80	-0.1	
GGP	0.23	272 iP+	17 22.20	0.0	
VC1	0.46	185 P	17 26.30	-0.1	
CAYA	0.46	56 iPd	17 26.60	0.1	
		S	17 33.00		
COTA	0.51	3 P	17 27.50	0.0	
S.D. = 0.2 on 6 of 6 obs.					

* APR 03, 1991 07h 00m 52.24±0.82s
 15.461 N ±15.1km 93.467 W ± 8.5km
 DEPTH = 101.8 ± 11.2 km
 3.7mb (1 obs.)
 NEAR COAST OF CHIAPAS, MEXICO (69)

TPX	1.29	115 iP	01 16.75	0.4	
		iS	01 34.50		
SCX	1.50	32 iP	01 18.75	-0.2	
		iS	01 38.75		
OXX	3.52	298 eP	01 45.00	-1.1	
		iS	02 24.00		
LVVM	5.12	327 (P)	02 03.00	-4.9X	
IISM	5.12	314 iP	02 06.50	-1.5	
		iS	03 05.00		
IIT	5.83	308 (P)	02 19.50	1.5	
PPM	6.10	307 iP	02 22.50	0.6	
ACX	6.30	284 eP	02 24.00	-0.2	
III	6.43	298 eP	02 27.00	0.7	
		iS	03 35.00		
MRX	8.49	301 eP	02 54.00	-0.2	
ALO	22.64	331 eP	05 46.00	0.4	
	0.8s	3.36nm	3.7mb		
PDCR	60.54	114 (P)	10 54.00	-0.4	
S.D. = 1.0 on 11 of 12 obs.					

% APR 03, 1991 07h 01m 00.28±0.66s
 40.439 N ± 6.2km 23.620 E ± 6.9km
 DEPTH = 10.0km (geophysicist)

GREECE (364)					
OUR	0.30	111 iPc	01 06.09	-0.4	
		eS	01 09.18		
SOH	0.43	332 ePc	01 08.58	-0.5	
		eS	01 15.14		
PAIG	0.51	175 ePc	01 10.90	0.2	
		eS	01 18.18		
THE	0.54	291 ePd	01 11.10	0.0	
		eS	01 18.30		
SRS	0.68	358 ePc	01 14.62	0.9	
		eS	01 23.90		
KNT	0.91	323 ePc	01 17.26	-0.4	
		iS	01 30.82		
GRG	1.06	300 ePd	01 20.46	0.2	
		eS	01 36.30		
S.D. = 0.6 on 7 of 7 obs.					

* APR 03, 1991 07h 16m 09.14±0.95s
 13.406 N ±15.5km 87.957 W ± 9.8km
 DEPTH = 33.0km (normol)
 4.7mb (3 obs.)

HONDURAS (72)
 Felt (iii) at San Salvador, El Salvador.

LFU	1.18	287 iPd	16 30.10	0.7	
SJAS	1.20	283 iPd	16 29.10	-0.8	
VSS	1.29	285 iPd	16 30.80	-0.3	
TME	1.49	294 eP	16 38.50	4.6X	
ALO	27.19	325 eP	21 54.00	2.0	
LRM	38.38	332 eP	23 29.50	0.2	
SIV	39.49	137 P	23 39.00	0.4	
FFC	42.66	348 iPc	24 05.30	1.1	
	0.5s	11.00nm	4.8mb		
PNT	44.26	331 eP	24 17.00	-0.2	
	0.7s	5.00nm	4.4mb		
EDM	44.55	338 ePc	24 19.40	-0.2	
FRB	52.08	11 ePc	25 17.70	-0.1	
YKA	52.56	345 eP	25 20.00	-1.5	
	0.6s	6.60nm	4.8mb		
MBC	65.01	352 eP	26 46.50	-1.3	
WRA	139.05	255 PKP	35 32.00	-3.1X	
	0.7s	2.20nm			
S.D. = 1.1 on 12 of 14 obs.					

% APR 03, 1991 07h 32m 14.67±2.06s
 15.411 N ± 5.7km 60.473 W ±22.5km
 DEPTH = 33.0km (normol)
 LEEWARD ISLANDS (92)
 ML 3.0 (FDF).

FDF	0.94	224 iPc	32 31.41	-0.1	
	0.1s	2.60nm			
		S	32 42.70		
MVM	0.94	206 iPc	32 31.69	0.1	
		S	32 43.40		
BBL	0.98	277 eP	32 31.57	-0.5	
		S	32 42.10		
BIM	1.06	213 iPd	32 33.39	0.1	
		S	32 46.50		
DEG	1.06	328 ePc	32 32.90	-0.4	
		S	32 46.30		
SFG	1.09	320 eP	32 33.00	-0.6	
DOG	1.26	299 ePc	32 36.24	0.1	
		S	32 50.50		
PAG	1.31	298 ePc	32 36.89	0.0	
		S	32 52.00		
SEG	1.40	315 eP	32 38.70	0.6	
MGH	2.12	308 eP	32 49.30	0.8	
S.D. = 0.5 on 10 of 10 obs.					

* APR 03, 1991 08h 59m 29.79±0.97s
 6.183 S ±11.3km 147.939 E ± 7.3km
 DEPTH = 93.5 ± 11.2 km
 5.0mb (3 obs.)

EAST PAPUA NEW GUINEA REGION					(207)
YYYY	1.96	268	iPd	00 03.53	1.2
PMG	3.30	194	iPc	00 18.20	-2.1
MNDI	4.26	270	eP	00 35.90	2.1
RAB	4.65	65	iPd	00 38.00	-1.1
SVO	12.13	105	P	02 23.00	2.2
HNR	12.33	106	eP	02 22.00	-1.3
OIS	16.42	209	iPc	03 16.00	0.0
			eS	06 00.00	
MTN	17.84	247	eP	03 32.00	-1.5
RMO	20.21	178	eP	04 02.00	2.4
			i	04 18.30	
KNA	21.07	242	eP	04 06.80	-1.5
BRS	21.59	168	iPd	04 13.20	-0.3
ASPA	22.01	216	iPd	04 18.10	0.4
	0.5s	46.20nm			5.1mb
			eS	08 15.50	
			iScS	15 31.80	
DZM	23.86	133	iPd	04 36.00	0.3
WARB	28.44	223	eP	05 18.30	0.4
	0.3s	7.00nm			4.8mb
FORR	30.80	215	eP	05 38.00	-0.8
COOL	35.15	222	eP	06 16.00	-0.5
KLB	37.89	224	eP	06 39.00	-0.5
MAT	43.47	349	iPd	07 23.70	-1.6
	1.2s	34.38nm			5.1mb
SIV	143.80	128	PKP	18 53.60	-3.1X
PPD	146.21	147	ePKP	19 01.70	1.1

e 19 06.00	GREECE-ALBANIA BORDER REGION (392)				S 11 34.93
e 19 12.80	IGT 0.41 303 ePd 43 18.98 -0.7				IMI 0.51 223 P 11 31.75 0.1
VAO 147.54 154 ePKP 19 05.70 2.9X	eS 43 25.86				S 11 39.85
BAO 153.19 144 e(PKP) 19 04.00 -7.5X	KEK 0.85 298 eP 43 30.00 2.2X				S.D. = 0.2 on 4 of 4 obs.
PDCR 160.13 159 (PKP) 19 21.00 1.0	eS 43 42.50				APR 03, 1991 15h 13m 34.20 ± 0.31s
S.D. = 1.5 on 20 of 23 obs.	VLS 1.14 187 eP 43 33.50 0.8				42.439 N ± 2.5km 13.500 E ± 3.6km
? APR 03, 1991 12h 00m 41.09 ± 0.83s	eS 43 51.50				DEPTH = 8.7 ± 2.6 km
32.481 N ± 14.9km 61.146 E ± 9.3km	AGG 1.25 103 iPc 43 33.22 -1.3				CENTRAL ITALY (381)
DEPTH = 33.0km (normal)	iS 43 50.46				ML 3.0 (ROM).
4.2mb (1 obs.)	KZN 1.26 37 eP 43 35.00 0.2				AQU 0.11 220 Pd 13 37.00 0.0
SOUTHWESTERN AFGHANISTAN (350)	eS 43 55.50				ALP 0.35 9 P 13 41.10 -0.2
ML 4.1 (TEH). Felt at Birjand, Iran.	FNA 1.54 17 ePc 43 38.90 -0.1				AZI 0.45 186 Pc 13 42.80 -0.6
MAIO 4.05 341 ePn 01 42.00 -0.4	eS 44 00.74				eSg 13 50.20
0.8s 17.94nm	LIT 1.54 59 ePc 43 38.78 -0.2				MNS 0.61 265 P 13 47.50 1.0
eSn 02 24.00	OHR 1.80 1 ePn 43 44.50 1.8X				eSg 13 56.50
QUE 5.47 113 eP 02 01.30 -1.2	GRG 2.06 37 ePc 43 47.18 0.6				SDI 0.77 162 Pd 13 48.50 -0.9
eS 03 36.30	eS 44 16.30				eSg 13 59.70
SHI 7.92 251 eP 02 37.00 0.1	PAIG 2.33 74 ePd 43 50.26 -0.1				CIO 0.80 341 P 13 48.90 -1.0
GKN 20.77 96 P 05 23.02 1.1	eS 44 21.94				eSg 14 00.90
DMN 21.29 97 P 05 27.68 0.4	VAY 2.43 34 ePn 44 08.50 16.7X				SSO 0.86 356 P 13 50.80 0.0
KKN 21.37 96 P 05 29.62 1.5	KNT 2.46 41 ePd 43 52.74 0.5				eSg 14 04.60
PKI 21.55 97 P 05 28.48 -1.6	eS 44 13.42				RMP 0.86 224 P 13 50.20 -0.7
GUN 21.84 96 P 05 33.02 0.1	SOH 2.49 52 iPc 43 53.02 0.4				eSg 14 04.50
WBZ 87.22 116 eP 13 17.10 -8.5X	eS 44 24.46				ASS 0.88 316 P 13 52.86 1.5
0.6s 1.00nm 4.2mb	S.D. = 0.7 on 10 of 13 obs.				RDP 0.90 221 P 13 51.40 -0.1
S.D. = 1.2 on 8 of 9 obs.	? APR 03, 1991 14h 06m 49.58 ± 1.78s				eSg 14 03.50
? APR 03, 1991 12h 47m 28.01 ± 5.26s	2.997 S ± 22.3km 129.773 E ± 31.3km				DUI 1.06 137 P 13 54.30 0.0
19.894 S ± 47.0km 176.396 W ± 66.8km	DEPTH = 33.0km (normal)				eSg 14 09.40
DEPTH = 323.9 ± 14.4 km	4.7mb (2 obs.)				AOI 1.11 4 P 13 55.70 0.5
4.7mb (3 obs.)	CERAM (272)				eSg 14 14.30
FIJI ISLANDS REGION (181)	WBZ 17.43 165 eP 10 50.10 -1.8				ARV 1.14 339 P 13 55.60 0.0
SVA 5.18 289 ePc 48 49.60 0.5	0.2s 6.10nm 4.4mb				eSg 14 13.40
eS 49 51.80	iS 13 55.60				RFI 1.19 162 P 13 57.91 1.4
VUN 5.21 290 ePc 48 49.10 -0.4	QIS 19.91 152 iPc 11 22.00 0.5				CRE 1.64 317 P 14 03.80 0.3
DZM 16.17 259 iPd 50 58.90 -0.3	MBL 20.48 207 eP 11 27.00 -0.4				RSM 1.67 333 P 14 06.00 2.2
HBZ 18.24 194 eP 51 20.10 -0.2	ASPA 20.93 169 iPc 11 32.80 0.7				SFI 1.91 321 P 14 07.80 0.6
PUZ 18.70 193 eP 51 24.50 -0.5	0.7s 52.10nm 5.0mb				PGD 1.94 318 P 14 07.80 0.0
eS 54 31.60	WARB 23.25 187 eP 11 56.50 1.4				FIR 2.12 310 e(Pn) 14 11.00 0.8
NOZ 19.27 193 eP 51 30.00 -0.6	STK 30.81 160 eP 13 24.90 20.2X				HVAR 2.29 70 ePn 14 13.30 0.5
eS 54 49.70	0.7s 1.80nm				SGO 2.32 144 P 14 14.50 1.4
MNG 21.79 197 eP 51 53.30 -1.9	GUN 52.22 309 P 16 00.00 -0.3				BDI 2.67 308 P 14 18.00 -0.3
THZ 23.62 200 eP 52 13.60 1.3	S.D. = 1.5 on 6 of 7 obs.				MME 2.69 312 P 14 18.70 0.0
KHZ 24.01 199 P 52 16.30 0.5	APR 03, 1991 14h 07m 27.00 ± 1.35s				RIY 2.97 12 ePn 14 22.50 0.1
LTZ 24.74 200 P 52 24.40 1.8	44.068 N ± 4.2km 6.699 E ± 9.5km				iSn 15 42.20
ASPA 46.13 256 iPc 55 23.10 0.3	DEPTH = 10.0km (geophysicist)				BRT 3.18 118 P 14 26.10 0.7
1.0s 57.20nm 4.8mb	FRANCE (538)				TRI 3.28 3 eP 14 27.00 0.3
iS 01 38.80	ML 2.4 (GEN).				i 15 22.00
WBZ 46.17 261 iPd 55 22.80 -0.4	CALN 0.34 156 Pg 07 34.72 0.5				BOB 3.75 310 P 14 34.00 0.4
0.8s 16.00nm 4.4mb	Sg 07 40.73				CTI 3.85 340 P 14 34.90 0.0
FORR 50.88 246 eP 55 59.00 0.1	MVIF 0.37 118 Pg 07 35.18 0.5				PTJ 3.89 26 eP 14 39.80 4.3X
WARB 52.45 252 eP 56 10.40 -0.2	TOUF 0.40 98 Pg 07 35.24 -0.1				FVI 4.19 353 P 14 39.50 -0.1
0.3s 11.00nm 4.7mb	STV 0.48 68 P 07 36.66 -0.3				KHC 6.69 0 eP 15 14.60 -0.5
KIC 164.29 148 PKP 07 00.40 6.0X	S 07 42.49				S.D. = 0.8 on 30 of 31 obs.
S.D. = 1.0 on 14 of 15 obs.	AURF 0.49 111 Pg 07 37.32 0.3				* APR 03, 1991 15h 22m 32.75 ± 0.78s
% APR 03, 1991 13h 09m 34.83 ± 0.52s	PZZ 0.52 33 P 07 37.66 -0.1				18.391 S ± 7.8km 168.033 E ± 11.9km
42.768 N ± 5.0km 19.197 E ± 4.0km	S 07 44.85				DEPTH = 33.0km (normal)
DEPTH = 10.0km (geophysicist)	AUTN 0.53 98 Pg 07 37.58 -0.3				4.7mb (3 obs.) 4.6Msz (3 obs.)
YUGOSLAVIA (383)	ENR 0.54 73 P 07 37.87 -0.2				VANUATU ISLANDS (186)
ML 1.2 (TTG).	S 07 45.16				PVC 0.70 22 iPd 22 45.80 -0.4
NKY 0.15 287 iPg 09 38.85 0.4	SAOF 0.62 97 Pg 07 39.36 -0.3				iS 22 55.50
iSg 09 43.07	BHB 0.87 27 P 07 43.82 -0.1				iPd 22 47.00 0.2
TTG 0.34 172 iPg 09 42.09 0.2	S 07 55.00				iS 22 59.50
iSg 09 47.55	ROB 0.87 75 P 07 44.04 0.1				iS 23 32.10 -0.6
BRY 0.50 286 iPg 09 44.74 -0.2	S 07 55.62				iS 24 16.60
iSg 09 52.45	IMI 0.87 100 P 07 44.04 0.1				eP 25 13.70 17.7X
IVA 0.53 78 iPg 09 45.55 0.0	FIN 1.10 82 P 07 47.83 0.1				HNR 11.87 318 eP 25 22.00 -0.7
iSg 09 54.04	PCP 1.41 70 P 07 53.77 1.0				eS 27 36.00
BDV 0.56 209 iPg 09 46.22 0.1	PGF 2.26 131 Pn 08 03.91 -1.3				eP 25 26.00 -0.6
iSg 09 54.57	S.D. = 0.5 on 15 of 15 obs.				eS 27 40.00
PLE 0.58 14 iPg 09 46.69 0.0	? APR 03, 1991 15h 11m 21.18 ± 1.40s				eP 25 28.00 1.3
iSg 09 56.75	44.288 N ± 12.7km 8.374 E ± 14.4km				iPd 27 03.40 8.7X
PVY 0.60 107 iPg 09 46.82 -0.2	DEPTH = 10.0km (geophysicist)				iPc 27 02.40 1.7
iSg 09 56.80	NORTHERN ITALY (545)				i 27 14.00
HCY 0.61 238 iPg 09 46.77 -0.3	FIN 0.14 237 P 11 24.37 -0.2				iPd 27 15.50 3.4X
iSg 09 56.97	S 11 27.14				1.0s 37.00nm 4.7mb
S.D. = 0.3 on 8 of 8 obs.	PCP 0.28 26 P 11 27.14 0.0				CNB 23.63 221 eP 27 46.00 4.1X
APR 03, 1991 13h 43m 11.39 ± 0.68s	S 11 31.44				i 27 52.40
39.311 N ± 6.0km 20.772 E ± 6.0km	ROB 0.36 271 P 11 28.68 0.0				eP 27 48.00 3.2X
DEPTH = 10.0km (geophysicist)					STK 27.36 236 eP 28 38.70 21.8X
					0.7s 3.50nm
					i 28 51.90
					e 29 18.30
					WBZ 31.82 262 eP 28 54.90 -2.0

03d 15h

0.9s 2.10nm 4.0mb
 ASPA 32.24 255 iPd 29 00.40 -0.1
 0.4s 12.40nm 5.2mb
 Z 20s 1.20um 4.6MsZ
 NWA0 47.59 242 eP 31 08.00 0.5
 YAK 85.70 343 iP 35 09.80 0.6
 ABH 144.90 338 ePKP 42 07.40 -0.6
 DOU 145.70 341 PKP 42 10.20 0.9
 FLN 148.31 345 ePKP 42 16.10 2.5X
 1.0s 16.00nm
 Z 22s 0.13um 4.7MsZ
 LOR 148.41 339 ePKP 42 16.80 3.0X
 0.8s 6.05nm
 Z 22s 0.13um 4.7MsZ
 SSF 148.71 339 ePKP 42 17.60 3.3X
 1.1s 12.20nm
 LPL 148.80 334 ePKP 42 18.60 3.8X
 LPG 148.81 334 ePKP 42 18.80 3.9X
 1.2s 10.40nm
 SMF 148.95 339 ePKP 42 17.90 3.2X
 LPF 149.12 346 ePKP 42 18.80 3.9X
 1.1s 26.85nm
 BGF 149.37 340 ePKP 42 19.40 4.1X
 1.0s 17.00nm
 SBF 149.81 331 ePKP 42 20.20 4.0X
 1.1s 19.55nm
 PGF 150.06 328 ePKP 42 22.30 5.7X
 1.1s 14.65nm
 S.D. = 1.1 on 13 of 29 obs.

? APR 03, 1991 15h 31m 11.07 ± 3.31s
 16.021 N ± 31.6km 99.307 W ± 14.6km
 DEPTH = 17.1 ± 8.3 km
 3.5mb (1 obs.)

NEAR COAST OF GUERRERO, MEXICO (58)

ACX 1.00 328 iP 31 29.50 0.0
 iS 31 43.50
 III 2.35 356 eP 31 49.50 -0.2
 iS 32 18.50
 OXX 2.69 67 iP 31 54.50 -0.1
 PPM 3.10 12 iP 32 05.50 4.9X
 IIT 3.13 18 (P) 32 07.50 6.6X
 IISM 3.48 32 iP 32 05.50 0.0
 MRX 4.08 334 (P) 32 21.50 7.5X
 iS 33 04.00
 ALO 19.90 343 e(P) 35 45.00 0.1
 YKA 47.65 350 eP 39 48.00 -0.1
 0.8s 0.40nm 3.5mb
 MBC 61.15 355 eP 41 35.00 8.6X
 ASPA 129.61 252 ePKP 50 29.90 8.3X
 1.4s 4.90nm
 S.D. = 0.1 on 6 of 11 obs.

% APR 03, 1991 16h 01m 03.16 ± 0.90s
 39.953 N ± 9.3km 2.790 W ± 8.1km
 DEPTH = 10.0km (geophysicist)

SPAIN (377)
 mbLg 2.8 (MDD).

TOL 0.97 266 ePg 01 23.00 1.4
 iSg 01 36.00
 ETOR 1.03 33 eP 01 22.80 0.1
 eS 01 38.30
 GUD 1.25 304 eP 01 25.30 -1.2
 eS 01 42.50
 EVIA 1.33 170 eP 01 27.00 -0.8
 eS 01 45.00
 ECHE 1.45 104 eP 01 30.00 0.5
 eS 01 50.00
 S.D. = 1.5 on 5 of 5 obs.

& APR 03, 1991 17h 29m 46.90s
 35.460 N 118.320 W
 DEPTH = 9.0km
 CENTRAL CALIFORNIA (39)
 <PAS-P>. ML 3.5 (PAS). Felt
 (III) at Weldon.

CLC 0.69 59 iPc 29 59.50 -1.2
 SBB 0.87 152 iPd 30 03.00 -0.8
 ABL 0.96 231 iPg 30 04.51 -0.8
 eSg 30 17.87
 TWL 1.20 191 eP 30 09.53 0.2
 S 30 26.26
 GSC 1.25 97 iPc 30 09.70 -0.5
 MWC 1.25 170 iPd 30 10.20 -0.2

PAS 1.31 175 eP 30 11.50 0.2
 S 30 29.03
 PEM 1.34 164 eP 30 10.96 -0.8
 SCY 1.36 185 eP 30 11.92 0.0
 S 30 30.44
 BCH 1.47 260 iPn 30 12.49 -1.2
 ePg 30 14.19
 eSg 30 33.83
 PKEM 1.57 293 ePn 30 15.17 0.1
 eSg 30 36.24
 SYP 1.65 236 eP 30 16.80 0.5
 PVPS 1.67 182 eP 30 17.40 1.0
 S 30 39.43
 PEC 1.83 148 ePn 30 18.00 -0.8
 eSg 30 43.78
 FRI 1.90 324 iPd 30 19.50 -0.2
 iS 30 43.40
 BLP 1.93 243 ePn 30 20.70 0.5
 eSn 30 45.92
 PRI 2.02 290 ePc 30 20.90 -0.8
 iS 30 48.10
 TPC 2.31 125 iPd 30 24.20 -1.5
 LLA 2.42 299 ePd 30 26.80 -0.5
 eS 30 57.70
 PLM 2.42 150 ePn 30 26.39 -1.1
 ePg 30 33.92
 eSg 31 01.99
 BONR 2.49 0 iPn 30 28.93 0.4
 (Sg) 31 05.30
 PRS 2.62 290 eP 30 28.90 -1.3
 TNP 2.76 18 ePn 30 31.91 -0.4
 ePg 30 37.47
 (Sg) 31 15.40
 SAO 2.85 298 eP 30 33.40 0.1
 CMB 3.06 328 ePc 30 37.00 0.7
 iS 31 18.00
 ARN 3.20 307 ePn 30 38.78 0.3
 (Sn) 31 16.90
 eSg 31 26.34
 MHC 3.27 306 ePc 30 39.60 0.1
 KVN 3.59 3 ePn 30 43.93 -0.1
 iPg 30 51.94
 eSg 31 41.01
 GLA 3.76 129 ePg 30 56.27 9.9
 eSg 31 45.83
 ORV 4.81 329 ePn 31 03.22 2.1
 eSg 32 13.99

30 obs. associated

& APR 03, 1991 18h 18m 45.01s
 60.418 N 152.252 W
 DEPTH = 100.1km
 2.8mb (1 obs.)
 SOUTHERN ALASKA (2)
 <AEIC>.

RDT 0.17 334 iPc 18 58.73 0.9
 eS 19 09.76
 REF 0.23 288 iPc 18 59.15 1.0
 RSD 0.25 280 iPc 18 59.26 1.0
 RS2 0.25 280 iPc 18 59.29 1.0
 RED 0.26 270 iPc 18 58.96 0.8
 iS 19 10.13
 RDN 0.27 291 iPc 18 59.06 0.8
 DFR 0.28 309 iPc 18 59.04 -0.8
 RDW 0.28 283 iPc 18 59.26 -0.7
 NCT 0.37 294 ePc 18 59.24 -1.1
 NKA 0.60 56 iPc 19 03.08 1.3
 >NNL 0.61 128 iPc 19 02.22 0.4
 SPU 0.77 7 iPd 19 02.64 -0.8
 eS 19 16.64
 CKL 0.78 357 iPd 19 02.81 -0.8
 HOM 0.82 158 iPc 19 03.49 -0.3
 BGL 0.85 355 iPd 19 03.62 -0.6
 eS 19 18.74
 CRP 0.85 3 iPd 19 03.72 -0.6
 BRK 0.95 133 iPc 19 04.11 -1.1
 eS 19 19.31
 NCG 0.99 3 ePd 19 04.92 -0.8
 eS 19 21.55
 XLV 1.00 164 eP 19 04.68 -1.1
 eS 19 20.90
 SLKM 1.01 84 iPc 19 04.98 -0.9
 CNPM 1.03 150 iPc 19 05.16 -0.9
 eS 19 21.42
 PDB 1.16 238 iPc 19 06.11 -1.4

AUE 1.20 208 ePd 19 06.94 -1.1
 AUH 1.22 210 eP 19 07.26 -1.0
 AUI 1.24 209 eP 19 07.44 -1.0
 eS 19 24.45
 SUA 1.28 34 ePd 19 08.75 -0.4
 SEW 1.43 102 iPc 19 09.46 -1.3
 PMS 1.56 57 iPc 19 11.68 -0.7
 SKT 1.61 12 iPd 19 11.87 -1.1
 eS 19 33.54
 MCNL 1.62 221 iPd 19 11.72 -1.5
 eS 19 32.36
 CDD 1.65 206 iPd 19 11.84 -1.8
 PWA 1.69 42 ePc 19 13.30 -0.8
 SVW 1.79 294 iP 19 13.70 -1.7
 SYI 1.82 182 iPd 19 14.27 -1.4
 eS 19 37.11
 PLRM 1.92 51 eP 19 15.42 -1.6
 PMR 1.92 51 iPc 19 15.50 -1.5
 KNK 2.11 60 ePc 19 17.56 -2.0
 GHO 2.11 49 iPc 19 18.13 -1.5
 CUT 2.21 25 eP 19 19.91 -0.9
 LTI 2.23 98 ePc 19 18.73 -2.4
 KNIM 2.24 90 ePc 19 18.27 -3.1
 eS 19 45.69
 MTU 2.34 99 eP 19 20.53 -2.0
 GLI 2.58 77 eP 19 22.41 -3.5
 SCM 2.78 57 iPc 19 26.70 -1.9
 HUR 2.86 25 eP 19 29.15 -0.4
 VZW 2.87 75 eP 19 26.93 -2.9
 VLZ 2.99 74 eP 19 28.64 -2.7
 TTA 3.09 326 iPd 19 31.00 -1.9
 KLU 3.27 68 ePc 19 32.92 -2.4
 TOA 3.39 57 eP 19 35.40 -1.5
 SDG 3.85 54 eP 19 41.31 -1.9
 PAX 4.12 49 eP 19 45.09 -1.9
 GLB 4.25 72 ePc 19 45.90 -2.7
 WRH 4.50 24 eP 19 50.03 -2.1
 CROM 4.51 82 eP 19 50.32 -2.1
 DDM 4.52 39 eP 19 52.28 -0.2
 TGL 4.66 82 eP 19 51.99 -2.4
 HDA 4.70 29 eP 19 52.74 -2.1
 CCB 4.72 24 eP 19 52.54 -2.5
 BALM 4.90 78 eP 19 54.35 -3.4
 MDM 4.92 20 eP 19 55.41 -2.5
 FBA 4.95 23 ePc 19 56.10 -2.1
 GLM 5.10 24 ePd 19 58.02 -2.5
 IMA 5.71 354 eP 20 06.00 -2.9
 ANM 7.36 310 eP 20 29.80 -1.6
 YKA 17.94 67 eP 22 46.50 -2.5

0.5s 0.30nm 2.8mb
 66 obs. associated

* APR 03, 1991 18h 31m 56.45 ± 1.40s
 51.283 N ± 29.0km 179.360 W ± 10.2km
 DEPTH = 33.0km (normal)
 4.8mb (8 obs.)

ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK 1.77 69 eP 32 27.40 2.1
 SMY 4.29 292 e(P) 33 03.00 2.0
 IMA 19.72 32 eP 36 25.70 -0.1
 MBC 33.83 22 eP 38 38.00 0.9
 1.0s 6.00nm 4.5mb
 YKA 35.55 46 eP 38 50.70 -1.3
 0.4s 1.20nm 4.2mb
 FRB 53.29 31 eP 41 13.00 -0.7
 NUR 66.90 347 iP 42 46.60 -0.3
 0.7s 13.30nm 5.1mb
 NB2 67.71 354 P 42 51.10 -1.0
 1.0s 5.80nm 4.6mb
 HFS 68.44 353 eP 42 54.90 -1.7
 0.5s 1.60nm 4.4mb
 GUN 71.57 292 P 43 16.48 -0.1
 0.5s 39.00nm 5.7mb
 KKN 72.01 292 P 43 18.94 -0.1
 0.6s 17.00nm 5.2mb
 PKI 72.09 292 P 43 19.18 -0.5
 GKN 72.22 293 P 43 19.88 -0.3
 DMN 72.24 292 P 43 20.34 -0.2
 0.8s 11.00nm 4.9mb
 KHC 79.36 351 eP 44 00.80 0.7
 OUE 80.16 306 eP 44 05.50 0.6
 S.D. = 1.1 on 16 of 16 obs.

? APR 03, 1991 20h 22m 20.71 ± 1.42s
 25.158 N ± 37.3km 126.293 E ± 21.0km
 DEPTH = 33.0km (normal)

4.7mb (2 obs.)																			
RYUKYU ISLANDS (238)					XLV	0.48	141	eP	47 55.63						iSg	32 02.47			
TWC	4.07	263	iPc	23 22.60 0.3	NNL	0.56	66	iP	47 46.71 -1.0						iPg	31 44.99 -0.1			
TWD	4.41	257	ePd	23 26.70 -0.3	CNPM	0.62	118	eP	47 48.77 0.3						iSg	32 05.89			
TWF1	4.90	250	ePd	23 34.10 0.1					47 48.48 -0.7						iPg	31 47.75 0.4			
			eS	24 21.10	RED	0.64	339	iP	47 59.22						iSg	32 10.66			
TWO	5.04	261	ePc	23 35.90 -0.1					47 48.71 -0.7						iPg	31 48.67 0.8			
TWG	5.31	245	ePc	23 39.80 0.0	RSO	0.68	341	iP	47 59.83						iSg	32 11.99			
			eS	24 30.90					47 49.37 -0.6						eP	31 51.00 1.3			
TWK	5.62	252	eP	23 44.30 0.0	RS2	0.68	341	iP	48 00.68						ePc	31 50.54 0.3			
YKA	80.22	24	eP	34 28.70 -0.4	REF	0.70	344	iP	47 49.38 -0.6						eS	32 10.58			
	0.5s	1.80nm		4.3mb					48 00.82						iPn	31 51.00 0.1			
FFC	90.32	26	eP	35 20.00 0.4					47 49.56 -0.6						iSn	32 13.00			
	0.8s	10.00nm		5.2mb					48 01.34						Lg	32 14.00			
S.D. = 0.4 on 8 of 8 obs.					RDW	0.71	340	iP	47 49.58						iPnc	31 52.00 1.5			
* APR 03, 1991 20h 27m 39.30 ± 0.76s					AUE	0.71	230	iP	47 49.34 -0.7						iSn	32 18.54			
33.693 N ± 17.1km 142.001 E ± 7.6km					BRLK	0.72	94	iP	47 49.66 -0.6						iPnd	31 52.75 1.2			
DEPTH = 33.0km (normol)									48 01.26						iSn	32 19.45			
4.8mb (14 obs.)					RDN	0.73	342	iP	47 49.86 -0.6						eP	31 58.20 5.1X			
OFF EAST COAST OF HONSHU, JAPAN (229)					AUH	0.74	232	eP	47 49.70 -0.7						ePd	31 54.70 -0.1			
MAT	4.21	314	iPc	28 42.20 -0.6	AUI	0.75	230	eP	47 49.64 -0.8						eS	32 18.74			
			eS	29 30.00					48 01.65						eS	32 22.90			
BJI	21.57	295	eP	32 29.50 1.6	RDT	0.76	356	iP	47 49.86 -0.8						iPnc	31 57.35 1.8			
HHC	25.17	295	P	33 04.00 0.8	DFR	0.79	347	eP	48 02.03						iSn	32 25.94			
BTO	26.31	295	eP	33 14.00 0.2	NCT	0.80	338	iP	47 50.41 -0.7						iPnd	31 58.15 2.4			
LZH	31.26	285	eP	33 56.50 -1.9	PDB	0.95	269	iP	48 02.73						iSn	32 26.34			
	1.5s	17.00nm		4.6mb					47 50.65 -0.6						ePd	31 58.66 1.2			
		PP	34 08.50						48 03.08						eS	32 24.06			
		SP	34 17.00						48 05.19						ePd	31 57.38 -0.3			
CD2	32.32	276	eP	34 05.00 -1.8	CDD	1.12	218	iP	47 54.22 -0.9						eS	32 24.26			
GTA	34.13	292	P	34 23.00 -0.4	MCNL	1.21	239	iP	47 54.82 -1.4						P	31 56.20 -1.9			
	0.8s	10.00nm		4.8mb					48 10.35						eSn	32 25.50			
WMO	42.86	300	eP	35 38.00 2.0	SYI	1.22	182	eP	47 55.83 -0.4						ePc	32 00.82 0.0			
GUN	48.06	279	P	36 18.02 0.0	SLKM	1.25	56	eP	47 56.46 -0.3						eS	32 29.54			
PKI	48.57	279	P	36 21.66 -0.3	SPU	1.37	5	eP	47 58.07 -0.2						eP	32 02.00 0.4			
KKN	48.59	279	P	36 21.84 -0.2					48 16.48						ePc	32 02.78 0.5			
DMN	48.80	279	P	36 22.88 -0.8	CKL	1.38	359	eP	47 58.39 -0.1						eS	32 31.42			
	0.5s	4.00nm		4.7mb					48 17.03						ePd	32 04.00 0.7			
GKN	49.05	280	P	36 25.28 -0.1	BGL	1.45	358	eP	47 59.37 0.0						eS	32 09.70 1.4			
	0.6s	15.00nm		5.2mb	CRP	1.45	3	eP	47 59.46 0.0						eS	32 42.78			
MBC	59.59	16	eP	37 41.00 -0.7	SEW	1.47	78	eP	48 00.01 0.5						ePc	32 09.22 -0.1			
YKA	66.46	30	eP	38 25.60 -1.6	NCG	1.59	3	eP	48 01.43 0.2						eS	32 43.38			
	0.8s	1.20nm		4.0mb	SKT	2.20	10	eP	48 09.08 -0.4						iP	32 11.00 0.5			
SOD	68.23	338	iP	38 38.00 -0.3	KNIM	2.35	75	eP	48 09.61 -2.0						iPc	32 14.00 0.0			
KAF	71.50	333	iP	38 57.80 -0.5	KNK	2.48	48	eP	48 12.07 -1.4						ORI	32 15.10 0.8			
	0.5s	6.80nm		4.9mb	31 obs. associated										VLS	32 13.50 -0.8			
NUR	73.12	333	eP	39 07.70 -0.2	% APR 03, 1991 20h 53m 11.79 ± 1.21s										PLD	32 11.00 -3.3X			
	0.5s	4.00nm		4.7mb	42.439 N ± 7.0km 13.541 E ± 12.1km										HVAR	32 16.20 0.8			
LRM	76.21	44	eP	39 27.00 0.7	DEPTH = 10.0km (geophysicist)										TDS	32 17.00 -1.2			
FFC	76.26	32	eP	39 26.00 0.0	CENTRAL ITALY (381)										KDZ	32 20.00 -1.3			
	0.6s	8.00nm		4.9mb	AQU	0.13	230	Pc	53 14.90 -0.1						MGR	32 22.40 -0.4			
HFS	77.33	336	eP	39 31.20 -0.7					53 16.90						RDO	32 12.00 -10.9X			
	0.5s	1.50nm		4.3mb	AZI	0.46	190	P	53 21.00 -0.1						SGO	32 22.90 -0.5			
NB2	77.45	338	P	39 32.30 -0.3					53 28.00						BZS	32 26.50 -1.1			
	0.8s	5.40nm		4.6mb	MNS	0.64	265	P	53 24.80 0.1						DUI	32 31.00 0.4			
FRB	79.91	13	eP	39 45.00 -0.9					53 36.40						AZI	32 42.50 1.0			
BRG	84.17	330	i(P)	40 08.80 0.5	SDI	0.76	164	P	53 26.80 0.1						PTJ	32 45.40 0.3			
CLL	84.23	331	iPc	40 09.10 0.5					53 36.80						MNS	32 51.00 1.1			
	0.9s	12.00nm		5.1mb	ARV	1.15	338	P	53 26.80 0.1						ARV	32 49.00 -1.6			
PRU	84.58	329	P	40 11.40 1.0					53 38.40						TRI	32 57.50 -0.7			
KHC	85.64	329	eP	40 16.60 0.9					53 33.20 0.0						SFI	33 03.00 0.0			
GRF	86.20	330	eP	40 19.30 0.8	S.D. = 0.2 on 5 of 5 obs.										FVI	33 10.30 -3.1X			
ALO	86.37	50	e(P)	40 19.00 -0.8	APR 03, 1991 21h 31m 21.62 ± 0.27s										CTI	33 15.90 -2.0			
LPL	91.37	330	eP	40 44.10 0.8	41.474 N ± 3.7km 20.374 E ± 2.8km										NB2	35 58.70 -2.2			
	0.8s	2.70nm		4.7mb	DEPTH = 10.0km (geophysicist)														
LPG	91.37	330	eP	40 44.10 0.6	3.5mb (2 obs.)										YKA	42 34.30 -2.2			
	0.8s	3.35nm		4.8mb	ALBANIA (391)														
AVF	91.66	333	eP	40 44.90 0.6	ML 3.5 (SKO). MD 2.9 (THE). Felt														
	0.8s	4.70nm		4.9mb	(IV) in the Debor oreo,														
BGF	92.04	333	eP	40 46.30 0.2	Yugoslavia.														
MAF	92.43	333	eP	40 43.90 -4.0X	OHR	0.48	138	iPg	31 30.50 -1.0										
ZOBO	147.82	65	PKP	47 24.00 3.4X					31 37.60										
LPB	148.00	65	PKP	47 26.00 5.3X					31 38.80										
CNCB	148.26	65	PKP	47 24.00 2.7X	SKO	0.94	58	iPg	31 38.50 -1.0										
SIV	152.74	55	PKP	47 28.60 1.3					31 42.00										
									31 52.60										
S.D. = 0.9 on 34 of 38 obs.									31 52.70										
* APR 03, 1991 20h 47m 34.40s					ULC	0.97	301	iPg	31 53.00										
59.822 N 152.312 W									31 59.59 -0.5										
DEPTH = 76.0km					FNA	1.02	132	iPd	31 55.92										
SOUTHERN ALASKA (2)									31 40.06 -1.0										
<AEIC>					PVY	1.16	345	iPg	31 54.50										
HOM	0.38	116	eP	47 46.34 -0.6					31 3										

03d 22h

VBEH	4.14	65	P	39	25.01	0.0
MTMW	4.22	51	Pc	39	26.20	0.2
FL2	4.24	48	P	39	27.02	0.6
VLL	4.24	60	P	39	27.06	0.6
SHW	4.30	49	P	39	27.96	0.7
CZM	4.31	45	P	39	27.50	0.2
ERK	4.32	47	P	39	27.77	0.3
HSR	4.32	49	Pc	39	28.31	0.8
VFP	4.32	63	P	39	27.51	-0.1
JLK	4.32	50	P	39	27.89	0.4
ESD	4.35	49	P	39	28.67	0.7
CDFW	4.36	51	Pc	39	28.24	0.2
APM	4.37	57	P	39	28.57	0.4
SOSW	4.38	49	P	39	28.90	0.5
CPW	4.41	36	P	39	28.32	-0.4

KOSW	4.50	46 P	39 30.50	0.6
CROR	4.52	68 P	39 29.49	-0.8
GULW	4.52	55 P	39 31.16	0.9
LMW	4.58	44 P	39 31.48	0.3
SMW	4.61	32 P	39 30.80	-0.7
ASR	4.64	53 P	39 32.47	0.4
VIPM	4.66	75 P	39 31.60	-0.8
MEW	4.80	37 P	39 35.05	0.9
VGB	4.84	63 eP	39 34.50	-0.4
VTHM	4.87	67 P	39 34.52	-0.7
GLK	4.87	49 P	39 35.83	0.5
LON	4.88	46 P	39 35.94	0.5
OSD	4.91	26 P	39 35.53	-0.4
HDW	4.99	31 P	39 36.36	-0.5
WPW	4.99	48 P	39 37.28	0.3

GL2	5.00	58 P	39	37.15	0.0
GMW	5.01	34 P	39	36.40	-0.8
FMW	5.07	45 Pc	39	38.45	0.2

RMW	5.37	40	eP	39	42.30	-0.1
NAC	5.41	51	P	39	43.32	0.5
JBO	5.44	66	P	39	42.71	-0.6
ORV	5.62	132	eP	39	47.00	1.1
HTW	5.64	38	Pd	39	45.85	-0.3
TBM	5.79	48	P	39	49.16	0.9
MCW	5.94	27	P	39	50.35	0.1
RPW	6.25	35	P	39	54.28	-0.4
LNOR	6.60	66	P	39	58.08	-1.6
MHC	7.31	145	eP	40	88.90	-0.7
PNT	7.33	135	ePc	40	11.20	1.3
CMB	7.73	38	iPd	40	14.50	-0.9

NEW	8.35	51 eP	40	22.70	-1.4
FRI	8.48	137 eP	40	25.80	-0.1
LRM	10.57	72 eP	40	53.00	-1.9
FFC	19.72	46 eP	42	52.00	-0.6

	0.7 s	10.00 nm	4.2 mb	
YKA	20.39	16 eP	42 58.50	-1.0
	1.0 s	2.60 nm		3.5 mb
INK	25.15	354 eP	43 38.00	-8.5X
MBC	33.05	3 eP	44 57.50	0.2
	S.D. = 0.7 on 60 of 61 obs.			

% APR 03, 1991 23h 24m 20.26± 0.82s
40.685 N ± 6.3km 23.339 E ± 7.2km
DEPTH = 10.0km (geophysicist)
GREECE (364)

SOM	0.14	5	iPc	24	24.08	0.5
			eS	24	25.60	
THE	0.29	260	ePd	24	26.96	0.6
			eS	24	30.76	
SRS	0.47	24	ePc	24	29.80	-0.1
			eS	24	37.68	
KNT	0.58	325	ePc	24	31.84	-0.2
			eS	24	40.28	
GRG	0.76	291	ePc	24	34.48	-0.7
			eS	24	46.24	
PAIG	0.80	161	ePd	24	35.60	-0.2
			eS	24	47.04	
S.D. = 0.6 on 6 of 6 obs.						

APR 03, 1991 23h 32m 26.81 ± 0.49s
27.932 S ± 7.2km 66.807 W ± 12.3km
DEPTH = 208.0 ± 15.0 km
CATAMARCA PROVINCE, ARGENTINA (130)

SLA	3.40	21	e(P)	33	22.00	-0.2
ZON	3.95	204	iPc	33	29.00	0.1
			eS	34	16.00	

MDZ	5.24	199	e(P)	33	45.40	0.2
ANT	5.32	322	iPd	33	47.00	0.9
PEL	6.18	212	iPd	33	57.50	0.3
			iS	35	07.50	
ROCH	6.20	215	iP	33	57.50	-0.1
PCH	6.50	208	iP	34	02.60	1.1
			i	35	19.00	
TACH	6.72	211	eP	34	04.00	-0.2
			e	35	19.30	
LCCH	6.88	215	iPd	34	05.50	-0.7
LNV	7.19	212	iPd	34	09.00	-1.2
SIV	13.02	25	P	35	24.00	-1.3
PPD	15.22	71	eP	35	53.80	1.1

VAO	18.57	79	eP	36	30.00	-0.6
CAYA	29.84	337	eP	37	59.00	-17.6
KIC	68.86	70	P	43	11.00	-0.6
ASPA	124.95	203	ePKP	51	17.70	13.7X
	0.5s		2.60nm			
S.D. = 0.9 on 14 of 16 obs.						

* APR 03, 1991 23h 36m 18.13±0.55s
 6.598 S ± 7.9km 76.213 W ±13.5km
 DEPTH = 33.0km (normal)
 3.9mb (2 obs.)
 NORTHERN PERU (111)

NNA	5.39	187	eP	37	38	.50	0.1
	0.7 s		6.85 nm				4.3 mb
			eS	38	36	.00	
TUNG	5.61	337	eP	37	42	.00	0.3
VC1	6.31	340	eP	37	51	.10	-0.8
ZOBO	12.45	141	P	39	16	.00	-0.5
Z	20 s		0.23 μ m				

			LR	44	32	.00	
LPB	12.67	142	P	39	19	.00	-0.3
			i	43	18	.00	
CNCB	12.95	142	P	39	24	.00	0.8
			e	40	19	.00	
			i	43	02	.00	
SIV	17.52	123	P	40	21	.00	-0.7
FRB	70.39	4	eP	47	31	.00	0.5
KIC	72.47	81	P	47	44	.90	0.9
YKA	74.90	343	eP	47	57	.00	-0.2
	0.8s		0.40nm				3.5mb
S.D.	= 0.7	on	10 of	10	obs.		

• APR 04, 1991 00h 07m 59.61± 3.12s
20.455 S ±19.7km 177.909 W ±10.1km
DEPTH = 538.2 ± 38.5 km
4.4mb (13 obs.)
FIJI ISLANDS REGION (181)

HBZ	17.40	190	eP	11	33.90	1.6
	0.3s	39.00nm				5.5mb X
PUZ	17.87	190	eP	11	37.30	0.3
WLZ	18.22	197	P	11	42.00	1.6
		e		11	48.90	
NOZ	18.44	190	eP	11	42.70	0.3
PGZ	20.70	193	eP	12	01.90	-1.7
MNG	20.88	194	P	12	03.60	-1.7
	0.2s	12.00nm				5.2mb
THZ	22.62	198	eP	12	20.60	-0.6
		e		12	23.80	
KHZ	23.05	196	eP	12	24.30	-0.7
	0.3s	11.00nm				5.0mb

ASPA	44.61	257	iPd	15	26.40	0.6
	1.2s	26.90nm			4.7mb	
			iS	21	24.70	
WB2	44.68	262	iPc	15	26.00	-0.3
	0.5s	8.10nm			4.5mb	

			eS	21	25	30	
FORR	49.35	246	eP	16	01	50	-0.1
	0.4s	22.00nm					5.0mb
WARB	50.93	252	eP	16	13	30	0.0
	0.4s	8.00nm					4.5mb

NWAO	58.47	243	eP	17	06	20	0.1
RKG	58.55	242	eP	17	07	00	0.3
BAL	59.15	246	eP	17	10	40	-0.3
MUN	59.42	244	eP	17	13	00	0.5
TNP	81.44	44	iP	19	22	10	0.4
	0.8 s		3.38 nm				3.9 mb

ALO	87.31	51	eP	19	50.80	0.3
ANMO	87.31	51	eP	19	50.90	0.4
	1.0s		1.75nm			3.8mb
FBA	88.18	12	eP	19	53.30	-0.4
	0.7s		2.70nm			4.2mb
BW06	88.88	43	eP	19	57.90	0.2
	0.7s		1.61nm			4.0mb
RSSD	93.06	44	eP	20	17.30	0.4
	0.9s		6.51nm			4.7mb
YKA	96.44	25	eP	20	29.70	-1.7
	0.6s		0.20nm			3.6mb
HFS	139.51	351	ePKP	26	16.80	-10.0X
	0.5s		1.50nm			
BSD	144.07	347	iPKPc	26	34.10	-0.8
	0.7s		12.00nm			
EKA	144.95	5	PKP	26	37.00	0.6
	1.0s		5.50nm			
KRA	147.24	339	ePKP	26	44.20	3.9X
KSP	147.67	343	iPKPd	26	45.40	4.4X
CLL	148.04	347	iPKPd	26	46.20	4.7X

BRG	148.24	346	ePKP	26	46.80	5.0X
			i	26	51.40	
WTS	148.31	354	ePKP	26	47.00	5.1X
	0.9s					
PRNI	148.78	295	ePKP	26	50.00	6.6X
PRU	148.91	344	PKPd	26	48.40	5.5X
MOX	148.95	348	ePKP	26	48.50	5.6X
ENN	149.60	355	ePKP	26	50.00	6.1X
	0.9s					
			e	26	57.00	

MEM	149.75	355	PKP	26	50.20	6.1X
GRF	149.93	348	e(PKP)	26	50.90	6.4X
KHC	149.95	345	iPKP	26	51.50	7.0X
	1.0s		6.00nm			
DOU	150.36	357	PKPc	26	51.80	6.8X
FLN	151.68	4	ePKP	26	54.30	7.3X

	0.3s	3	3.00nm			
CDF	151.80	353	ePKP	26	55.40	8.0X
	0.4s		2.30nm			
LDF	151.87	3	ePKP	26	54.70	7.4X
	0.3s		2.55nm			
GRR	152.03	4	ePKP	26	55.30	7.7X
	0.4s		4.60nm			
HAU	152.30	354	ePKP	26	56.00	8.0X
	0.4s		2.30nm			
LPF	152.37	5	ePKP	26	56.10	8.1X

0.4s 4.60nm
SMF 153.84 357 ePKP 27 01.30 11.2X
KIC 164.50 154 PKP 27 03.50 0.5
S.D. = 0.9 on 27 of 48 obs.

 & APR 04, 1991 00h 19m 16.70s
 34.040 N 117.230 W
 DEPTH = 15.0km
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 2.3 (PAS). Felt at
 Riverside.

PEC	0.16	159	iPd	19	20.60	-0.3
VPD	0.50	243	eP	19	26.32	-0.2
			S	19	33.31	
PEM	0.55	284	iPc	19	26.92	-0.5
MWC	0.71	285	iPc	19	29.70	-0.7
PLM	0.75	156	eP	19	30.20	-0.9
TPC	0.98	86	iPc	19	34.50	-0.4
CPE	1.16	175	eP	19	36.50	-1.5
CIS	1.16	237	eP	19	37.29	-0.7
GSC	1.31	15	ePd	19	40.20	-0.2
ABL	1.83	297	eP	19	47.00	-1.1
GLA	2.24	115	eP	19	51.80	-2.0
11 obs. associated						

APR 04, 1991 00h 36m 53.56± 0.57s
42.348 N ± 5.1km 19.433 E ± 4.5km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.2 (TTG).

TTG	0.15	303	iPg	36	57.40	0.3
			iSg	37	00.96	
ULC	0.41	200	iPg	37	01.16	-0.7
			iSg	37	06.76	
BDV	0.45	262	iPg	37	03.01	0.2
			iSg	37	10.80	
PVY	0.47	58	iPg	37	02.55	-0.6
			iSg	37	10.68	

NKY 0.56 326 iPgc 37 04.80 -0.3
 IVA 0.63 33 iSg 37 15.65 0.1
 HCY 0.70 279 iPgc 37 07.05 -0.3
 BRY 0.86 310 iSg 37 19.48 0.3
 SKO 1.54 103 eP 37 44.70 23.6X
 OHR 1.60 140 eP 37 23.00 0.9
 S.D. = 0.6 on 9 of 10 obs.

& APR 04, 1991 02h 38m 31.88s
 63.621 N 149.876 W
 DEPTH = 138.4km
 CENTRAL ALASKA (1)
 <AEIC>

TRF 0.25 227 iP 38 50.86 1.3
 MCK 0.43 75 eS 39 05.08
 RND 0.51 115 eP 38 51.83 -0.5
 BWN 0.58 18 eS 39 07.07
 HUR 0.65 170 eP 38 52.51 -0.1
 NEA 1.02 20 eS 39 07.42
 WRH 1.16 42 eP 38 52.60 -0.5
 CUT 1.23 189 eS 39 08.32
 CCB 1.37 40 iP 38 55.24 -0.8
 RDS 1.43 31 iP 38 56.77 -0.6
 HDA 1.51 57 iP 38 57.48 -0.6
 MDM 1.52 27 iP 39 17.44
 FBA 1.57 34 iP 38 58.89 -0.6
 GLM 1.75 37 iP 38 59.62 -0.5
 DDM 1.79 83 eP 38 00.35 -0.7
 SKT 1.81 206 iP 39 00.71 -0.5
 GH0 1.91 166 eP 39 01.19 -0.5
 PWA 1.98 180 eP 39 03.20 -0.6
 PLRM 2.07 170 eP 39 04.31 0.0
 PAX 2.10 106 eP 39 03.28 -1.2
 SCM 2.14 146 eP 39 03.28 -1.2
 SUA 2.20 191 eP 39 03.28 -1.2
 SDG 2.26 117 eP 39 03.28 -1.2
 TOA 2.28 130 eP 39 03.28 -1.2
 KNK 2.31 163 eP 39 03.28 -1.2
 NCG 2.46 206 eP 39 03.28 -1.2
 BGL 2.64 207 eP 39 03.28 -1.2
 SPK 2.65 203 eP 39 03.28 -1.2
 SLKM 3.13 183 eP 39 03.28 -1.2
 RDT 3.28 202 eP 39 03.28 -1.2
 DFR 3.31 205 eP 39 03.28 -1.2
 RDN 3.40 205 eP 39 03.28 -1.2
 REF 3.41 204 eP 39 03.28 -1.2
 KNIM 3.44 162 eP 39 03.28 -1.2
 GLB 3.56 125 eP 39 03.28 -1.2
 35 obs. associated

APR 04, 1991 03h 19m 48.70±0.92s
 6.681 S ± 6.7km 147.892 E ± 9.4km
 DEPTH = 74.0 ± 8.5 km
 5.0mb (7 obs.)
 EAST PAPUA NEW GUINEA REGION (207)

LAT 0.89 272 iP 20 04.40 -1.8
 YYY 1.96 283 eP 20 22.35 1.7
 PMG 2.81 195 eP 20 31.00 -1.2
 MNDI 4.24 277 eP 20 56.00 3.5X
 RAB 4.93 60 e(P) 21 04.00 2.1
 QIS 15.96 209 iPc 23 31.60 1.4
 WB2 18.62 224 eP 24 01.80 -1.2
 0.6s 13.00nm 4.3mb
 RMQ 19.72 178 eP 24 14.00 -1.0
 QLP 20.10 190 eP 24 20.00 1.0
 KNA 20.79 243 eP 24 25.00 -1.1
 BRS 21.11 168 iPc 24 29.00 -0.4
 ASPA 21.59 217 iPc 24 34.40 0.3

0.5s 37.10nm 5.0mb
 2 20s 3.00um 4.7msz
 STK 25.75 192 eP 25 36.60 22.4X
 WARB 28.05 224 eP 25 36.00 0.8
 FORR 30.37 215 eP 25 56.00 0.2
 MAT 43.94 349 iPc 27 48.70 -1.4
 SSE 45.43 327 iPc 28 01.50 -0.4
 0.7s 30.00nm 5.3mb
 NJ2 47.43 326 Pc 28 17.60 -0.2
 PSI 49.76 279 ePd 28 38.90 2.8X
 LOE 51.50 298 iPd 28 51.00 1.8
 XAN 54.77 320 P 29 11.50 -1.7
 BJI 54.93 330 eP 29 13.00 -1.2
 GUN 68.98 303 P 30 48.80 -0.2
 PKI 69.26 303 P 30 51.80 1.2
 KKN 69.44 303 P 30 51.40 -0.2
 DMN 69.52 303 P 30 52.20 0.0
 YAK 69.93 351 iP 30 53.00 -0.6
 GKN 70.04 303 P 30 54.80 -0.4
 KOD 72.11 283 eP 31 10.40 2.4
 HYB 72.53 291 ePc 31 11.00 0.9
 GBA 72.78 286 Pc 31 13.10 1.6
 0.8s 12.30nm 4.9mb
 FBA 85.46 23 eP 32 18.10 -1.1
 1.0s 0.80nm 3.7mb x
 INK 91.96 21 eP 32 48.00 -1.9
 KOE 125.22 330 iPdfff35 16.60 -2.6X
 STU 125.47 328 ePdfff35 21.20 0.8
 1.0s 120.00nm 6.1msz
 Z 20s 4.26um 6.1msz
 STB 125.55 330 iPdfff35 13.80 -6.9X
 1.4s 185.00nm
 BGG 125.55 330 iPdfff35 15.40 -5.3X
 1.8s 290.00nm
 ABH 125.65 329 ePdfff35 16.73 -4.5X
 FIR 127.07 321 ePdfff35 30.00 2.4X
 1.8s 45.56.00
 TIO 146.48 319 iPKP 39 25.00 2.7X
 KIC 152.81 271 PKP 39 41.20 9.0X
 LIC 153.09 271 PKP 39 41.90 9.3X
 TIC 153.10 272 PKP 39 41.90 9.3X
 S.D. = 1.3 on 31 of 43 obs.

APR 04, 1991 03h 22m 57.91±0.10s
 7.017 N ± 1.9km 78.153 W ± 2.1km
 DEPTH = 32.9km (geophysicist)
 6.1mb (85 obs.) 5.8msz (41 obs.)
 PANAMA (81)
 Ms 5.9 (BRK), 5.6 (PAS), MD 5.9 (UPA), Mo=2.0*10**18 Nm (PPT).
 Felt (IV) in the La Palma-Dorien area and (III) at Panama City, Penanome and Las Santos. Also felt at Medellin, Colombia.
 Depth from broadband displacement seismograms.
 FAULT PLANE SOLUTION: P-Waves
 NP1:Strike=302 Dip=62 Slip= 25
 NP2: 200 68 150
 Principal Axes:
 T Plg=37 Azm=159
 P 4 252
 Comment: The focal mechanism is poorly controlled and corresponds to strike-slip faulting with a moderate reverse component. The preferred fault plane is not determined.
 RADIATED ENERGY
 No. of sta: 9 Focal mech. F
 Energy 5.9±1.5*10**13 Nm

MOMENT TENSOR SOLUTION
 Dep 8 No. of sta: 10
 Moment Tensor: Scale 10**18 Nm
 Mrr= 1.37 Mtt=-0.14
 Mtf=-1.24 Mrt=-0.92
 Mrf=-0.99 Mtf= 1.92
 Principal axes:
 T Vol= 2.68 Plg=46 Azm=140
 N 0.02 44 328
 P -2.70 4 234
 Best Double Couple:Mo=2.7*10**18
 NP1:Strike=288 Dip=57 Slip= 34
 NP2: 178 63 142
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 19S, 47C
 Centroid Location:
 Origin Time 03:23: 5.2 0.6
 Lat 7.66N 0.05 Lon 78.61W 0.05
 Dep 16.8 2.0 Half-duration 4.7
 Moment Tensor: Scale 10**18 Nm
 Mrr= 1.28 0.05 Mtt=-1.21 0.04
 Mtf=-0.07 0.07 Mrt= 1.11 0.17
 Mrf=-0.47 0.11 Mtf= 1.17 0.05
 Principal Axes:
 T Vol= 1.71 Plg=69 Azm= 2
 N 0.63 9 118
 P -2.34 18 211
 Best Double Couple:Mo=2.0*10**18
 NP1:Strike=316 Dip=28 Slip= 110
 NP2: 113 64 80

UPA 2.38 325 iPd- 23 32.50 -3.0
 S 24 06.50
 HOBC 3.32 143 P 23 45.30 -3.6X
 CLMC 3.49 153 P 23 48.88 -2.6
 BUGC 3.63 149 P 23 51.02 -2.3
 ANCC 3.71 160 Pd 24 51.69 57.4X
 HOOC 3.84 157 P 23 52.80 -3.5X
 FUD 4.65 109 iP 24 07.00 -1.0
 SILC 4.66 157 P 24 06.60 -1.7
 BOG 4.71 120 iPc 24 10.00 1.1
 PURC 4.99 159 P 24 11.57 -1.5
 BMG 5.04 89 eP 24 13.80 0.4
 PSO 5.84 172 eP 24 23.50 -1.5
 CUMC 6.02 177 P 24 23.28 -4.3X
 COTA 6.64 182 P 24 33.20 -3.1
 CAYA 6.89 179 eP 24 37.60 -2.2
 YANA 7.10 183 eP 24 40.30 -2.3
 UAV 7.12 77 iPnc 24 42.40 -0.3
 ISn 26 00.60
 QUR 7.15 183 eP 24 44.30 1.0
 OTO 7.19 183 eP 24 44.20 0.4
 VCI 7.61 182 eP 24 48.00 -1.8
 SDV 7.68 76 iPnc 24 49.10 -1.4
 ISn 26 06.80
 TUNG 8.38 182 eP 25 03.80 3.3X
 TOV 8.72 71 iPnc 25 02.20 -2.6
 ISn 26 33.90
 CEOS 9.93 78 iP 25 16.90 -4.6X
 IS 27 03.90
 MORO 10.44 68 iP 25 24.90 -3.7X
 IS 27 17.80
 SPJ 10.93 3 eP 25 31.97 -3.3X
 eS 27 40.95
 YHJ 10.93 8 eP 25 33.44 -1.8
 STH 11.07 7 eP 25 34.43 -2.7
 CAR 11.62 72 iP 25 40.90 -3.8X
 LLAV 11.73 72 iP 25 41.80 -4.3X
 GCM 12.60 346 eP 25 56.30 -1.3
 GUAN 12.71 76 iP 25 54.00 -5.3X
 CUM 14.24 75 eP 26 19.00 -0.3
 eS 26 56.00
 MGP 15.35 44 P 26 28.40 -5.5X
 PORP 15.70 45 P 26 33.00 -5.3X
 LRS 15.72 43 P 26 33.00 -5.6X
 TPX 15.91 301 (P) 26 39.00 -2.1
 SJG 16.08 46 P 26 39.00 -4.3X
 CPD 16.20 46 P 26 39.20 -5.6X
 LPR 16.41 46 P 26 43.40 -4.1X
 TCE 16.61 76 eP 26 48.52 -1.5
 TPP 16.83 78 eP 26 38.06 -14.7X
 TRN 16.94 77 eP 26 48.24 -5.9X
 SKI 18.21 54 eP 27 14.21 4.2X
 NEV 18.24 55 eP 27 13.64 3.3X
 MGH 18.32 57 eP 27 12.65 1.3
 BIM 18.35 65 eP 27 11.44 -0.3

04d 03h

[illegible]

	1.2s	125.00nm		5.9mb	EAB	75.21	34 ePc	34 39.10	0.2		1.1s	403.80nm		6.3mb
SIT	66.69	330 P	42 05.00		EALH	75.26	53 eP	34 38.80	-0.8			S	45 09.00	
Z	20s	7.50um		5.9Msz	ELO	75.60	34 ePc	34 41.30	0.1	DBN	80.41	38 eP	35 10.00	2.4
LIS	69.28	51 iPc	34 03.60	-0.5	EBH	75.68	34 ePc	34 41.60	0.0			ePP	38 04.00	
PTO	70.03	49 eP	34 05.00	-3.7X		1.0s	135.00nm		5.9mb			e(S)	45 16.00	
		eS	44 18.00		ECHE	75.69	51 eP	34 42.90	0.8			eSS	50 20.00	
TIO	70.04	60 iP	34 08.50	-0.7	ESK	75.70	35 eP	34 41.80	0.0	CDR	80.81	47 iPc	35 10.30	0.3
		i	34 21.40			1.0s	160.00nm		6.0mb			i	35 22.00	
AVE	70.09	57 iPc	34 09.50	0.3	EKA	75.73	35 P	34 41.00	-0.9	ENN	80.86	40 iPc	35 10.20	0.1
		i	34 21.80			1.9s	479.00nm		6.2mb		0.9s	196.00nm		6.1mb
EZAM	70.11	48 iPd	34 09.20	0.0	EDI	75.81	34 eP	34 42.60	0.3	VITF	80.91	42 P	35 10.23	-0.1
STS	70.33	47 iPc	34 10.50	0.0	TBI	75.84	244 iP	34 47.80	4.7X	MEM	80.92	40 Pc	35 10.60	0.3
VAL	70.95	37 eP	34 14.00	0.0		1.0s	70.00nm		5.6mb	WLF	81.01	41 Pc	35 11.50	0.6
EVAL	71.03	53 iPc	34 14.30	-0.5	BOH	75.85	47 P	34 43.38	0.3	HAU	81.15	43 eP	35 11.60	-0.1
INK	71.19	341 ePd	34 13.80	-1.4	EBL	75.86	34 ePc	34 42.30	-0.4		1.3s	216.60nm		6.0mb
	1.8s	448.00nm		6.2mb	ELYF	75.87	47 P	34 43.02	0.0	Z	21s	4.00um		5.7Msz
ERUA	71.29	48 iPc	34 15.70	-0.6	EDU	75.99	33 ePc	34 44.10	0.7	LRG	81.24	47 iPc	35 12.70	0.5
EMON	71.30	47 iPd	34 16.20	-0.2		1.1s	231.00nm		6.1mb		1.1s	171.70nm		6.0mb
CNIL	71.47	54 eP	34 19.00	1.5	MADF	76.00	47 P	34 43.56	-0.2	Z	19s	5.25um		5.9Msz
AKU	71.60	22 iP	34 18.90	1.2	ISSF	76.01	48 P	34 44.32	0.4	WIT	81.33	38 eP	35 13.50	1.1
	1.8s	472.73nm		6.2mb	ATE	76.08	47 P	34 44.06	-0.1	LMR	81.35	47 iPc	35 13.10	0.3
PLAT	71.68	54 eP	34 21.00	2.2	ACU	76.08	52 eP	34 42.80	-1.5		1.5s	391.75nm		6.2mb
LKO	71.74	82 Pc	34 18.50	-1.0	LHE	76.13	48 P	34 44.49	-0.1	RSL	81.38	45 P	35 13.42	0.3
	1.2s	391.50nm		6.3mb	ESCF	76.17	47 P	34 45.07	0.3	WTS	81.42	39 iPc	35 13.30	0.4
EPLA	71.80	50 iPc	34 18.70	-0.8	LPF	76.20	42 iPc	34 44.50	-0.2		1.0s	379.00nm		6.4mb
EJIF	71.94	54 iPc	34 20.60	0.3	OGE	76.25	47 P	34 45.25	0.1	BNI	81.43	46 P	35 16.10	2.7
IFR	72.01	57 iPc	34 21.00	-0.1	EGRA	76.31	48 eP	34 48.60	3.1X	FRF	81.45	47 eP	35 13.60	0.3
		i	34 33.00		JAU	76.32	48 P	34 46.27	0.5	BSF	81.45	43 P	35 12.90	-0.5
LIJA	72.02	54 eP	34 22.50	1.6	RSO	76.35	331 eP	34 44.90	-0.7	LPL	81.46	45 iPc	35 14.30	0.7
RUV	72.05	252 iP	34 23.10	1.9	GRR	76.35	42 iPc	34 45.60	0.0	LPG	81.47	45 iPc	35 14.50	0.7
	1.5s	185.00nm		5.9mb	DAG	76.44	12 iPd	34 44.20	-1.4		1.3s	169.25nm		5.9mb
EPRU	72.17	54 eP	34 21.40	-0.3		1.2s	264.06nm		6.1mb	LOMF	81.49	43 P	35 13.50	-0.1
TPT	72.22	252 iP	34 24.30	2.1	Z	18s	12.65um		6.3Msz	RRL	81.51	46 P	35 14.62	0.7
	1.5s	145.00nm		5.8mb	E	21s	7.74um			EMS	81.59	45 ePc	35 14.60	0.4
EHOR	72.23	53 iPc	34 21.20	-0.8	BTH	76.44	47 iPd	34 46.50	0.3	CALN	81.62	47 P	35 14.83	0.4
VAH	72.29	252 iP	34 24.60	2.0			iPd	34 56.50	32kmX	BNS	81.66	40 iPc	35 14.80	0.6
	1.5s	155.00nm		5.8mb			esPcP	35 05.00			1.3s	344.00nm		6.2mb
PMO	72.49	252 iP	34 25.70	1.9	FLN	76.63	42 iPc	34 47.20	0.1	Z	27s	8.00um		5.9MszX
	1.5s	205.00nm		5.9mb		1.2s	348.65nm		6.3mb	MOF	81.68	43 P	35 14.18	-0.4
TIC	72.54	85 Pc	34 23.28	-1.0	Z	21s	5.25um		5.8Msz	ECH	81.69	42 P	35 14.55	0.0
LIC	72.57	86 Pc	34 23.54	-0.9	MFF	76.70	44 iPc	34 47.90	0.4	PZZ	81.75	46 P	35 15.74	0.7
	Z	20s	5.50um	5.8Msz	EROO	76.80	50 iPc	34 48.50	0.3	LSO	81.76	45 P	35 15.85	0.6
		S	43 48.00		EPF	76.84	48 iPc	34 49.00	0.5	CDF	81.77	42 P	35 14.71	-0.3
MBC	72.75	350 eP	34 22.50	-1.8		1.5s	775.30nm		6.5mb	MVIF	81.80	47 P	35 15.85	0.5
	1.5s	784.00nm		6.5mb	LDF	76.86	42 iPc	34 48.40	0.0	WLS	81.82	42 P	35 15.15	-0.1
AIA	72.81	174 eP	34 26.00	1.3	EBR	76.86	50 eP	34 49.00	0.5	RSP	81.84	45 P	35 16.26	0.8
KIC	72.84	86 Pc	34 25.20	-0.8			eS	44 35.00		DOI	81.85	46 P	35 16.60	1.1
	1.4s	641.50nm		6.4mb	PDB	76.95	330 P	34 47.50	-1.2	BHB	81.85	46 P	35 15.64	0.2
ECB	73.13	37 eP	34 27.00	0.1			pP	34 59.20	39kmX	TOUF	81.87	47 P	35 15.91	0.2
GUD	73.33	50 iPc	34 28.30	-0.2	LFF	77.22	46 iPc	34 50.50	0.0	STV	81.92	46 P	35 15.74	-0.1
TOL	73.34	51 iPc	34 28.50	0.0	MLS	77.38	48 P	34 51.49	0.1	DIX	81.92	45 ePc	35 16.80	0.7
	1.2s	812.50nm		6.6mb	LPO	77.52	46 iPc	34 52.20	0.0	AURF	81.93	47 P	35 16.15	0.2
		i(pP)	34 57.00	112kmX	IMA	77.76	336 iPc	34 53.40	0.2	BBS	81.95	43 P	35 15.39	-0.5
		ePP	37 17.00			1.7s	300.30nm		6.0mb	REVf	81.96	47 P	35 16.34	0.3
		iS	43 54.00		RJF	77.78	45 iPc	34 53.50	-0.1	GWf	81.98	42 P	35 16.34	0.3
		iPS	44 37.00		Z	21s	7.25um		6.0Msz	ENR	81.99	46 P	35 15.95	-0.3
		iSS	49 19.00		LSF	77.83	44 iPc	34 53.60	-0.3	AUTN	82.00	47 P	35 16.66	0.2
ECP	73.34	38 eP	34 27.40	-0.8	SVW	77.84	331 ePc	34 53.10	-0.5	SBF	82.01	47 iPc	35 16.50	0.2
	1.1s	348.00nm		6.3mb		1.0s	143.80nm		6.0mb		1.2s	232.05nm		6.1mb
EBAN	73.41	52 iPc	34 28.40	-0.5	CAF	78.16	46 iPc	34 55.70	0.0	STR	82.09	42 P	35 16.75	0.2
EGUA	73.50	54 iPc	34 28.00	-1.5	TTA	78.26	333 eP	34 55.70	-0.3	SAOF	82.09	47 P	35 16.89	0.2
ECOG	73.52	53 iPd	34 30.00	0.3	TCF	78.31	44 iPc	34 56.10	-0.4	FEL	82.28	43 P	35 17.27	-0.4
ETA	73.53	37 eP	34 28.70	-0.6	MAF	78.55	44 iPc	34 57.70	-0.1	MMK	82.31	45 ePc	35 19.20	1.1
	1.0s	151.00nm		5.9mb	ETER	78.67	48 iPd	34 59.20	0.7	ROB	82.31	46 P	35 17.59	-0.3
AFC	73.54	53 iPc	34 30.10	0.2	ESEL	78.68	51 iPd	34 59.10	0.5	ORO	82.33	45 P	35 18.20	0.2
EHUE	74.33	53 iPc	34 34.50	0.1	BGF	78.76	44 iPc	34 58.80	-0.1	ORX	82.33	45 P	35 17.59	-0.5
TVO	74.36	249 iP	34 35.00	0.2	PYM	78.85	45 P	34 59.64	0.1	IMI	82.34	47 P	35 18.00	0.0
	1.5s	165.00nm		5.8mb	AGO	78.94	45 P	34 59.76	-0.2	ANM	82.52	334 ePc	35 19.20	0.7
EVIA	74.45	52 iPd	34 35.70	0.6	LBL	79.00	45 P	35 00.64	0.4	ZLA	82.54	43 ePc	35 19.30	0.3
PPN	74.48	250 iP	34 36.80	1.4	AVF	79.11	44 iPc	35 00.40	-0.4	FIN	82.55	46 P	35 18.62	-0.5
	1.5s	155.00nm		5.8mb	SSF	79.22	44 iPc	35 00.80	-0.6	CKI	82.59	46 P	35 19.30	0.0
ENIJ	74.59	54 iPd	34 35.40	-0.4	PLDF	79.28	45 P	35 01.98	0.1	SLE	82.60	43 ePc	35 19.40	0.1
PPT	74.62	250 iP	34 38.10	1.9	SMF	79.44	44 iPc	35 02.30	-0.4	MUD	82.72	34 iPc	35 20.00	0.4
	1.5s	205.00nm		5.9mb	LOR	79.47	43 iPc	35 02.30	-0.5		1.2s	200.00nm		6.1mb
PAE	74.64	250 iP	34 38.20	1.9		1.5s	367.25nm		6.2mb			i	35 31.50	
	1.5s	310.00nm		6.1mb	Z	21s	5.50um		5.9Msz	PCP	82.78	46 P	35 19.95	-0.3
ECRI	74.72	48 iPc	34 37.10	0.6	LBF	79.54	44 eP	35 02.40	-0.8	VAl	82.88	45 P	35 20.80	0.2
PMR	74.85	332 ePc	34 36.80	0.0	BRW	79.74	341 ePc	35 03.70	0.0	LLS	82.98	44 ePc	35 22.20	0.7
	0.9s	69.50nm		5.7mb	SNF	79.82	40 Pc	35 04.50	0.0	RGS	83.16	27 eP	35 22.50	0.7
Z	19s	7.40um		6.0Msz	UCC	79.87	40 iP+	35 04.00	-0.8	KBS	83.18	11 iP	35 23.50	1.8
ETOR	74.93	50 iPc												

04d 03h

SAL	84.12	45 P	35 27.50	0.5	ZST	88.32	42 iP	35 48.60	1.0	BBTK	101.27	47 ePdiff36	48.00	0.8X
BDI	84.28	46 P	35 26.80	-1.2	MGR	88.36	50 P	35 48.10	0.2	KMZ	105.16	102 iPKP	41 22.30	2.6X
GRF	84.30	41 iPc	35 28.70	0.8	HVAR	88.60	47 iPc	35 49.20	0.2	PRY	107.06	116 iPKPd	41 02.50	-20.6X
	2.3s	511.00nm		6.3mb	KEV	88.66	20 iP	35 49.00	0.2	LSZ	107.54	104 ePKP	41 23.00	-1.2
Z	21s	4.00um		5.8Msz	TDS	89.02	50 P	35 51.20	0.1			e	52 51.00	
		e	35 40.60		ORI	89.04	50 P	35 51.60	0.3	BUL	108.09	109 iPKPd	41 41.60	16.4X
MME	84.34	46 P	35 29.00	0.5	TIH	89.05	43 iP	35 50.90	-0.2		1.2s	47.66nm		
OGA	84.37	44 eP	35 29.20	0.6	SRO	89.18	42 iP	35 52.90	1.2	PTZ	110.54	103 ePKP	41 17.00	-12.9X
FUR	84.45	42 eP	35 29.20	0.5	GRI	89.20	51 P	35 51.60	-0.5			i	41 59.20	
	1.7s	400.00nm		6.3mb	SOD	89.20	22 iP	35 51.30	-0.2			i	42 08.00	
MOX	84.48	40 iPc+	35 29.30	0.5	BRT	89.49	49 P	35 53.30	-0.1	SHI	120.23	50 ePKP	41 47.00	-1.1
	1.7s	233.00nm		6.1mb	UZD	89.56	43 e(P)	35 54.00	0.5	IRK	120.91	358 ePKP	41 47.00	-1.5
Z	19s	3.50um		5.8Msz	BUD	89.71	42 eP	35 54.60	0.4		2.4s	129.00nm		
N	18s	1.30um			ADK	89.77	322 eP	35 54.90	0.5	Z	20s	3.62um		6.0Msz
E	18s	2.70um			KRA	89.85	40 ePc	35 55.40	0.6			e	43 12.10	
COP	84.59	35 iPc	35 39.70	10.6X			429.00nm		6.5mb			e	43 37.90	
	0.9s	141.18nm			LCI	90.14	49 P	35 58.10	1.8			e	48 46.00	
Z	20s	2.48um		5.6Msz	BRY	90.16	47 iPc	35 57.38	0.8			e	59 40.00	
		i	35 41.70		NUR	90.19	29 iP	35 56.20	0.0	MAIO	121.40	40 ePKP	41 50.00	0.0
		eS	45 53.00			1.1s	237.30nm		6.4mb			i	43 22.00	
HOF	84.68	40 eP	35 30.00	0.2	HCY	90.20	47 iPc	35 57.13	0.5	MDJ	122.85	337 ePKP	41 52.50	0.1
HFS	84.89	30 eP	35 30.10	-0.5	SPC	90.20	40 eP	35 58.50	1.8		Z	24s	3.00um	5.9MszX
	1.4s	256.60nm		6.2mb	BDV	90.47	47 iPc	35 57.38	-0.5		N	18s	2.00um	
Z	19s	4.66um		5.9Msz	NKY	90.50	47 iPc	35 59.07	0.9		E	20s	3.40um	
		LR	03 00.00		KAF	90.54	27 iP	35 57.30	-0.4			sPKP	42 06.00	
PGD	85.10	47 P	35 32.40	0.2		1.0s	86.00nm		6.0mb			PP	43 30.00	
SFI	85.19	46 P	35 32.20	-0.2	PLE	90.70	46 iPc	35 59.83	0.8			SKKS	50 18.00	
CLL	85.30	39 iPc	35 33.60	0.8	TTG	90.76	47 iPc	36 00.37	1.2	MAT	124.88	324 ePKP	41 55.00	-1.6
	1.7s	320.00nm		6.3mb	ULC	90.83	48 iPc	36 00.98	1.4		Z	20s	2.84um	5.9Msz
Z	18s	3.00um		5.7Msz	IVA	91.14	47 iPc	36 02.17	1.1	CN2	125.09	339 ePKP	41 55.00	-1.8
		epP	35 45.00	37kmX	BEO	91.17	45 iP	36 02.00	1.0			6.0s	1200.00nm	
		eSKS	45 58.00		PVY	91.25	47 iPc	36 02.83	1.2		Z	20s	11.00um	6.5Msz
BRN	85.32	38 ePc	35 34.80	1.9	KEK	91.64	50 eP	36 04.50	1.2		N	20s	2.00um	
WET	85.42	41 iPc	35 34.40	0.9	CEI	91.95	42 eP	36 10.00	5.5X		E	20s	2.00um	
Z	19s	4.00um		5.8Msz	OHR	92.13	48 iPc	36 07.20	1.6	GAR	125.68	30 iPKP	41 58.00	-0.3
BHG	85.56	43 iPc	35 34.80	0.6		1.9s	808.00nm		6.8mb			pP	42 00.00	
	1.7s	768.00nm		6.6mb	SKO	92.44	47 iPc	36 07.80	0.9			PcP	42 09.00	
FVI	85.60	44 P	35 34.70	0.3			i	36 19.10				PPP	45 16.00	
RSM	85.62	46 P	35 35.60	1.1			i	36 26.50				iS	54 17.00	
KHC	85.88	41 iPc	35 36.60	0.8			i	36 18.00		WMO	127.80	13 ePKPc	42 01.84	-0.3
	1.6s	276.50nm		6.2mb			iSKS	46 56.00				9.0s	1600.00nm	
N	20s	1.30um					iS	47 06.00			Z	24s	3.30um	5.9MszX
E	20s	2.60um					i	47 32.50				epPKP	42 13.09	
		e	35 46.80				iPS	48 28.50				esPKPc	42 16.07	
BRG	85.94	39 iPc	35 36.40	0.4	VLS	92.53	51 eP	36 07.00	-0.5			ePP	44 03.94	
	1.6s	310.00nm		6.3mb	VAY	93.40	48 iP	36 12.00	0.7	KSH	127.93	25 ePKP	42 04.00	1.4
Z	18s	3.50um		5.8Msz		1.4s	93.00nm		6.0mb		E	16s	5.00um	
N	18s	2.00um			CMP	94.25	44 ePc	36 15.00	-0.2	RA8	129.86	270 e(PKP)	42 04.00	-2.8X
E	18s	3.00um			VLI	94.66	52 eP	36 22.00	4.8X	DL2	130.76	340 PKP	42 10.00	2.2X
		i	35 48.20		MLR	94.81	43 ePc	36 20.00	2.1		Z	20s	2.20um	5.9Msz
		i	36 11.80		ATH	94.99	51 eP	36 12.50	-6.2X		E	18s	2.70um	
		e	46 04.00		SMY	95.03	324 P	36 30.00	11.4X	BJI	131.34	345 ePKPc	42 07.75	-1.1
TRO	85.94	20 iPc	35 36.50	0.9		Z	20s	3.00um	5.8Msz			9.0s	1440.00nm	
MNS	85.94	48 P	35 36.20	-0.1	VRI	95.24	43 eP	36 22.50	2.8X		Z	32s	5.50um	6.1MszX
PTS	85.97	54 P	35 38.00	1.6	RDO	95.62	48 iPd	36 22.00	0.5		E	26s	6.06um	
RMP	86.01	49 P	35 37.90	1.3	NVL	96.57	161 eP	36 26.00	0.8			epPKP	42 20.00	
ARV	86.02	47 P	35 36.20	-0.4		2.0s	900.00nm		6.9mb	RMQ	131.42	241 ePKP	42 08.60	-0.8
BSD	86.05	35 iP	35 36.20	-0.2		Z	20s	4.90um	6.0Msz			e	44 40.00	
	1.0s	132.00nm		6.1mb			i	36 38.00		HHC	131.54	350 iPKPd	42 10.00	0.6
ERC	86.31	52 P	35 39.20	1.0			iPP	40 20.00				5.0s	1390.00nm	
KMR	86.36	42 iP+	35 38.80	0.6	SPA	96.97	180 iPd	36 28.50	1.2		Z	30s	9.30um	6.3MszX
TRI	86.37	45 P	35 38.80	0.6		0.9s	27.27nm		5.8mb		E	25s	5.70um	
PRU	86.41	40 Pc	35 39.40	1.0	OBN	98.02	32 iP	36 31.90	-0.2	BTO	132.03	352 PKP	42 10.00	-0.3
	1.7s	335.20nm		6.3mb		1.7s	340.00nm		6.6mb			PP	44 29.00	
Z	19s	4.90um		5.9Msz		Z	22s	3.20um	5.8Msz			PKS	45 41.00	
N	18s	1.10um					e	49 36.00		GTA	133.77	2 PKP	42 12.00	-1.7
E	18s	3.60um					ePKKS	54 30.00				9.0s	1520.00nm	
		e	35 50.00				eS	47 22.00			Z	32s	6.90um	6.2MszX
		e	38 46.00				ePS	48 42.00			E	17s	2.50um	
		S	46 16.00				ePPS	49 14.00				sPKP	42 24.60	
		PS	47 27.00				eSS	54 27.00				PP	44 22.00	
AZI	86.54	48 P	35 39.80	0.7			eSSSS	57 42.00				PKS	45 43.00	
RIY	86.85	45 iPc	35 35.80	-4.7X			LR	19 10.00				SKS	49 20.00	
SDI	86.85	49 P	35 41.00	0.2								SKKS	51 30.00	
UPP	86.89	30 iP	35 40.50	0.1								SS	02 24.00	
		i	35 52.10									PKc	42 15.00	0.1
		iS	46 15.00									5.60um		6.1MszX
RFI	87.03	49 P	35 42.60	1.1								8.80um		
FAI	87.25	53 P	35 45.40	2.7								4.20um		
DUI	87.34	49 P	35 43.70	0.6										
KSP	87.42	39 iP	35 44.00	0.8										
	1.5s	198.00nm		6.1mb										
		ic	35 56.30											
PTJ	87.87	44 iPc	35 46.30	0.7										
ZAG	87.90	44 iPc	35 46.50	0.9										
SGO	88.11	50 P	35 47.00	0.3	ITU	98.16	47 eP	36 36.00	3.0X					

TIA	134.67	343	SKKS	51	32.50		KMI	148.04	358	PKP	42	51.00	11.5X	TRF	0.73	332	ePd	44	04.32	0.1
	9.0s	1900.00nm	PKP	42	13.50	-1.8		7.0s	1.50nm								S	44	16.66	
Z	22s		3.60um			6.0Msz	Z	24s	3.50um				6.1MszX	MCK	0.96	16	iPd	44	06.71	-0.1
N	18s		2.10um						pPKP	43	21.00						eS	44	20.51	
E	18s		2.30um						sPKP	43	40.00			GHO	1.08	165	iPc	44	08.09	-0.3
ADE	136.18	225	ePKP	42	18.00	-0.3			PKS	46	15.00						iS	44	24.40	
LZH	137.09	358	ePKP	42	11.00	-9.1X			PP	46	20.00			PWA	1.18	188	eP	44	09.39	-0.1
	6.0s		1.71nm				GBA	148.26	50	PKPc	42	39.40	-0.4				S	44	26.63	
Z	24s		4.62um			6.1MszX		1.3s	158.80nm					PLRM	1.24	171	iPc	44	10.13	-0.1
N	20s		3.62um				HKC	148.46	338	ePKP	42	46.50	6.6X	PMR	1.24	171	iPc	44	10.20	-0.1
			sPKP	42	20.00		RKG	149.65	265	ePKP	42	40.50	-1.0	SKT	1.25	229	iPd	44	10.36	-0.1
			PP	44	59.00		WARB	149.65	228	ePKP	42	40.00	-1.7				eS	44	27.22	
			eSKS	49	14.00		COOL	150.16	215	ePKP	42	42.00	-0.4	BWN	1.36	1	ePd	44	11.68	-0.2
			SKKS	51	45.00		BAG	150.24	322	ePKP	42	42.00	-1.0				eS	44	28.89	
			i	57	16.00		KOD	150.28	55	ePKP	42	43.60	0.3	SCM	1.42	133	ePc	44	12.37	-0.4
			SS	03	00.00		NWAO	150.52	207	iPKPd	42	42.80	0.0				eS	44	32.37	
NDI	137.30	33	ePKP	42	10.00	-10.5X	OCF	151.25	318	ePKP	42	38.00	-6.3X	SUA	1.47	203	ePc	44	13.79	0.3
SSE	137.82	335	PKP	42	20.00	-1.4	KLB	151.39	209	ePKP	42	44.00	-0.2	KNK	1.49	160	iPd	44	13.69	0.0
	8.0s	1600.00nm					MUN	151.78	266	ePKP	42	45.00	0.3				iS	44	34.14	
Z	21s		4.20um			6.2Msz	DAV	152.50	300	ePKP	42	46.00	-0.2	PMS	1.58	181	ePc	44	15.32	0.5
N	20s		2.80um				BAL	152.71	209	ePKP	42	46.00	-0.1				S	44	34.47	
E	20s		3.90um				OIZ	152.95	343	PKPc	42	47.00	0.3	TOA	1.71	113	iP	44	17.70	1.0
			sPKP	42	32.00			E	28s	9.80um				NEA	1.78	6	ePd	44	16.71	-0.8
			PP	45	08.00					sPKP	43	00.00					eS	44	37.46	
			PKS	45	59.00		BDT	155.73	7	ePKP	42	50.00	-0.5	WRH	1.78	20	iPd	44	16.80	-0.7
NJ2	137.90	338	PKPd	42	20.80	-0.7		1.0s	82.80nm								S	44	37.68	
Z	20s		1.20um			5.6Msz	LOE	155.73	0	ePKP	42	52.00	1.5	THY	1.82	69	eP	44	18.77	0.7
N	15s		1.20um				NST	157.39	4	ePKP	42	56.00	3.3X	SDG	1.86	97	ePd	44	18.53	-0.1
E	15s		1.20um				MBL	157.63	229	ePKP	42	52.80	-0.1				eS	44	41.93	
			sPKP	42	32.00		KHT	158.10	8	ePKP	42	54.00	0.4	PAX	1.87	83	ePd	44	18.56	-0.2
			PP	45	16.00		IPM	168.45	4	ePKP	43	02.30	-0.9				eS	44	41.16	
			PKS	45	55.00		PSI	169.92	171	ePKPd	43	05.50	1.4	NCG	1.88	222	eP	44	19.05	0.1
WHN	140.78	343	ePKP	42	26.00	-0.8	KGM	170.91	35	ePKP	43	05.00	0.4	DDM	1.92	58	eP	44	20.06	0.6
	6.0s	1500.00nm						S.D. = 1.0	on 463 of 535 obs.					HDA	1.97	35	iPd	44	19.28	-0.8
Z	22s		2.20um			5.9Msz								CRP	1.99	220	ePc	44	20.95	0.5
N	22s		4.10um											CCB	1.99	22	iPd	44	19.40	-1.0
			sPKP	42	40.00									SPU	2.03	217	ePc	44	20.76	-0.2
			PP	45	30.00									BGL	2.06	222	eP	44	21.87	0.5
QIS	141.06	246	ePKP	42	20.00	-7.6X								CKL	2.10	220	eP	44	21.92	0.0
GKN	141.42	25	PKP	42	21.04	-7.2X								RDS	2.11	16	iPd	44	21.33	-0.7
BOM	141.50	48	ePKP	42	21.20	-7.2X											eS	44	46.09	
KKN	141.87	24	PKP	42	22.72	-6.4X								MDM	2.23	14	iPd	44	22.96	-0.7
DMN	141.96	25	PKP	42	23.00	-6.4X								FBA	2.23	19	ePd	44	23.00	-0.7
GUN	142.00	23	PKP	42	23.48	-6.1X								NKA	2.23	202	eP	44	25.59	1.9
	0.9s	138.00nm												VZW	2.25	140	eP	44	25.13	1.1
LSA	142.07	15	ePKP	42	24.50	-5.3X								GLI	2.26	148	eP	44	22.91	-1.1
Z	13s		3.56um			6.3MszX	SAO	0.22	195	iPd	41	26.01	0.3				S	44	51.83	
PKI	142.12	24	PKP	42	23.18	-6.6X	ARN	0.39	341	iP	41	29.20	0.0	VLZ	2.26	137	eP	44	22.90	-1.2
CD2	142.25	357	ePKP	42	24.90	-4.6X	MHC	0.42	330	iPd	41	29.50	-0.3	SLKM	2.34	188	eP	44	25.82	0.6
	Z	30s	2.80um			5.8MszX								GLM	2.38	22	iPd	44	24.82	-0.9
	E	21s	3.40um				LLA	0.50	136	iPd	41	30.65	-0.6	KNIM	2.62	160	eP	44	27.68	-1.4
			sPKP	42	40.00		GCC	0.50	276	iPc	41	30.74	-0.6	RDT	2.63	213	eP	44	29.64	0.3
			PP	45	33.80		PRS	0.64	180	iPd	41	33.44	-0.6	DFR	2.69	215	eP	44	29.74	-0.4
			eSKKS	52	18.50		PCC	0.96	303	iPd	41	39.43	-0.3	SEW	2.72	179	eP	44	29.95	-0.4
QZH	144.29	333	PKPd	42	30.00	-3.0X								RDN	2.78	215	eP	44	31.67	0.3
Z	24s		3.30um			6.0MszX	PRI	1.01	145	ePd	41	40.10	-0.6	NCT	2.78	217	eP	44	32.62	1.2
			pPKP	42	42.00		BKS	1.13	323	eP	41	41.70	-1.0	REF	2.78	214	eP	44	33.16	1.7
ASPA	145.06	238	iPKPc	42	32.50	-1.9X								LTJ	2.90	163	eP	44	31.39	-1.5
	1.1s	210.50nm					BRK	1.14	322	ePc	41	42.00	-0.8	TTA	2.97	275	eP	44	33.10	-0.9
FORR	145.85	223	ePKP	42	34.50	-1.0								GLB	3.02	115	eP	44	33.78	-0.8
WB2	145.96	245	iPKPd	42	35.00	-1.0	ZSP	1.20	324	iPc	41	43.02	-0.7	SVW	3.35	242	eP	44	38.90	-0.3
	0.7s	1.00nm					CMB	1.32	36	iPc	41	44.80	-1.1	CROM	3.67	121	eP	44	43.30	-0.5
			e	44	38.60									IMA	3.73	333	eP	44	44.30	-0.3
			iPP	46	11.10		FRI	1.33	89	iPc	41	44.58	-1.5	TGL	3.79	120	eP	44	44.40	-1.0
			iPKKP	51	08.30									BALM	3.84	115	eP	44	43.87	-2.2
			i	52	11.60															
			e	52	53.00		PKEM	1.37	131	eP	41	46.20	-0.4							
WRA	145.97	245	PKP	42	35.00	-1.0	NWRM	1.91	321	eP	41	52.00	-2.4							
	1.3s	106.60nm					BCH	2.07	149	eP	41	54.80	-2.1							
GYA	146.40	352	iPKPc	42	36.00	-0.7	ORV	2.58	358	ePc	42	03.40	-0.6							
Z	32s		2.50um			5.8MszX	BONR	2.63	67	eP	42	04.30	-0.8							
N	20s		1.40um				ABL	2.75	140	eP	42	04.40	-2.3							
E	20s		1.60um				KVN	3.31	50	eP	42	13.50	-1.2							
			sPKP	42	48.00		TNP	3.48	70	eP	42	16.00	-1.1							
			PKS	46	14.00															
HYB	146.55	43	ePKPc	42	36.40	-0.6														
	1.0s	320.00nm																		
GZH	148.04	340	iPKP	42	39.00	-0.2														
Z	30s		3.10um			5.9MszX														
			PP	46	12.00															
KMI	148.04	358	ePKPc	42	39.26	-0.3														
	2.0s	60.00nm																		
Z	24s		3.50um			6.1MszX														
			i	42	56.15															
			e	46	20.81															
			S	05	16.00															
																			</	

04d 04h

0.7s 100.00nm 5.8mb
 GUN 43.61 304 P 37 02.88 -0.2
 PKI 43.88 303 P 37 04.48 -0.8
 0.5s 7.00nm 4.7mb
 KKN 44.06 303 P 37 05.98 -0.6
 0.5s 12.00nm 5.0mb
 DMN 44.14 303 P 37 06.68 -0.6
 GKN 44.67 303 P 37 10.62 -0.8
 0.4s 6.00nm 4.7mb
 BFD 46.26 162 eP 37 24.00 0.4
 CNB 47.16 154 eP 37 32.00 1.2
 KOD 48.32 278 eP 37 41.10 0.7
 GBA 48.44 282 Pc 37 42.80 1.9
 0.8s 4.50nm 4.5mb
 KEV 86.92 340 eP 41 35.00 -6.4X
 e 46 22.00
 SOD 87.52 338 eP 41 44.00 -0.3
 INK 87.58 21 eP 41 49.00 4.5X
 NUR 89.86 331 eP 41 54.00 -1.5
 e 46 48.00
 e 47 58.00
 NB2 95.90 334 P 42 21.70 -1.7
 0.7s 1.30nm 4.6mb
 YKA 96.99 24 eP 42 28.50 0.3
 0.9s 0.60nm 4.1mb
 KIC 129.38 284 PKP 48 06.10 -0.4
 S.D. = 1.2 on 21 of 23 obs.

? APR 04, 1991 04h 30m 38.01 ± 3.38s
 8.551 S ± 26.8km 129.820 E ± 18.7km
 DEPTH = 165.4 ± 27.0 km
 4.6mb (2 obs.)
 TIMOR SEA (290)

MTN 4.46 163 eP 31 46.50 1.2
 KNA 7.23 188 eP 32 22.00 -0.1
 0.2s 125.00nm 6.0mb X
 eS 33 52.00
 WB2 12.15 159 iPd 33 24.90 -1.9
 0.3s 25.20nm 5.2mb X
 iPP 34 46.00
 QIS 15.23 143 iPd 34 05.00 -0.8
 iS 35 08.00
 ASPA 15.53 166 iPd 34 10.70 1.1
 0.3s 22.60nm 5.0mb
 iS 37 11.70
 MBL 15.81 216 eP 34 12.00 -1.0
 0.3s 4.00nm 4.3mb
 eS 37 04.00
 LAT 17.13 85 eP 34 29.30 0.2
 eS 34 37.60
 WARB 17.80 189 eP 34 38.00 1.3
 e 35 32.00
 FORR 22.24 184 eP 35 22.00 0.2
 e 36 10.40
 KLB 25.53 204 iPc 36 23.50 30.5X
 MUN 26.52 207 iPc 36 29.00 27.0X
 NWA0 26.91 204 eP 36 35.50 30.0X
 RKG 28.00 203 eP 36 50.00 34.6X
 S.D. = 1.4 on 9 of 13 obs.

? APR 04, 1991 05h 27m 20.53 ± 6.29s
 19.321 N ± 46.0km 66.427 W ± 12.8km
 DEPTH = 10.0km (geophysicist)
 PUERTO RICO REGION (90)

LRS 1.10 201 P 27 41.30 0.2
 (S) 27 52.30
 LPR 1.14 152 P 27 42.00 0.1
 S 27 54.00
 SJG 1.23 168 P 27 43.70 0.3
 S 27 56.20
 PORP 1.28 189 P 27 43.80 -0.4
 CPD 1.36 159 P 27 45.30 -0.3
 MGP 1.45 206 P 27 46.90 0.1
 S.D. = 0.4 on 6 of 6 obs.

* APR 04, 1991 05h 29m 23.26 ± 1.01s
 18.846 N ± 6.3km 145.277 E ± 14.5km
 DEPTH = 190.1 ± 10.3 km
 4.8mb (10 obs.)
 MARIANA ISLANDS (216)

PJG 5.24 184 eP 30 41.90 0.6
 GUA 5.29 184 iPd 30 41.50 -0.4
 CHJJ 18.01 343 P 33 21.10 -1.3
 MAT 18.69 342 eP 33 31.00 1.4

MTN 34.44 205 eP 35 54.30 -0.4
 0.3s 49.00nm 5.6mb
 WB2 40.01 196 iPd 36 40.80 -0.3
 0.6s 27.70nm 5.0mb
 ePP 38 13.90
 eS 42 09.60
 WRA 40.01 196 P 36 41.00 -0.2
 0.6s 22.70nm 4.9mb
 ASPA 43.69 195 iPc 37 11.20 0.1
 0.4s 12.80nm 4.8mb
 MBL 46.92 213 eP 37 37.00 0.4
 0.4s 7.00nm 4.5mb
 WARB 48.28 203 eP 37 47.50 0.4
 0.4s 10.00nm 4.7mb
 FORR 52.10 199 eP 38 15.00 -0.9
 0.3s 15.00nm 5.1mb
 INK 69.40 23 eP 40 12.00 0.1
 MBC 73.11 14 eP 40 33.50 -0.4
 0.4s 3.00nm 4.4mb
 YKA 78.05 28 eP 41 01.60 -0.3
 0.5s 3.30nm 4.3mb
 ORV 80.65 51 eP 41 15.70 -0.6
 CMB 81.93 53 ePd 41 23.20 0.1
 FRI 82.76 54 eP 41 26.90 -0.4
 SES 84.07 39 eP 41 34.00 0.3
 FFC 87.18 32 ePd 41 49.00 0.1
 0.8s 12.00nm 4.8mb
 ZOBO 148.08 91 PKP 48 47.50 1.7
 LPB 148.14 91 ePKP 48 54.00 8.3X
 CNC8 148.30 92 PKP 48 50.00 3.9X
 S.D. = 0.8 on 20 of 22 obs.

APR 04, 1991 05h 52m 24.84 ± 0.35s
 44.763 N ± 2.7km 7.460 E ± 4.0km
 DEPTH = 23.0 ± 7.0 km
 NORTHERN ITALY (545)
 ML 2.3 (GEN), 2.2 (LDG).

BHB 0.16 299 P 52 29.66 -0.2
 S 52 32.12
 DOI 0.30 211 P 52 31.50 -0.3
 eSg 52 35.50
 PZ2 0.36 225 P 52 32.12 -0.7
 S 52 36.53
 RSP 0.41 340 P 52 33.45 -0.2
 S 52 39.40
 RRL 0.51 288 P 52 34.79 -0.4
 S 52 41.45
 STV 0.53 191 P 52 34.79 -0.7
 S 52 41.14
 ENR 0.54 183 P 52 34.89 -0.7
 S 52 41.55
 ROB 0.55 148 P 52 35.81 -0.1
 S 52 43.60
 BNI 0.63 298 P 52 37.60 0.4
 eSg 52 45.20
 LSD 0.73 343 P 52 39.30 0.4
 S 52 48.63
 FIN 0.77 136 P 52 39.61 0.1
 S 52 49.96
 PCP 0.81 106 P 52 40.73 0.6
 S 52 51.19
 LPG 0.89 326 Pg 52 42.00 0.3
 Sg 52 53.00
 SBF 0.90 181 Pg 52 41.90 0.2
 Sg 52 52.80
 IMI 0.91 160 P 52 41.76 -0.1
 LPL 0.91 326 Pg 52 42.40 0.3
 ORX 0.94 23 P 52 41.55 -1.0
 S 52 53.65
 FRF 1.34 206 Pg 52 48.50 0.3
 Sg 53 05.40
 LRG 1.53 212 Pg 52 51.80 0.9
 Sg 53 12.20
 LMR 1.58 206 Pg 52 52.60 0.9
 Sg 53 13.30
 S.D. = 0.6 on 20 of 20 obs.

? APR 04, 1991 07h 07m 44.52 ± 3.71s
 32.439 S ± 21.6km 179.331 W ± 58.6km
 DEPTH = 487.3 ± 20.0 km
 4.2mb (2 obs.)
 SOUTH OF KERMADEC ISLANDS (179)

HBZ 5.50 200 P 09 16.10 -0.2
 PUZ 5.96 199 P 09 20.40 -0.4

NOZ 6.53 198 P 09 26.50 0.0
 WLZ 6.81 216 P 09 30.30 1.0
 MOH 7.27 202 P 09 35.00 0.9
 WHH 7.27 207 P 09 33.90 -0.3
 NGZ 7.88 210 P 09 39.50 -1.2
 CNZ 7.92 210 P 09 41.10 0.0
 PGZ 8.90 202 P 09 51.90 0.6
 MNG 9.17 206 P 09 52.70 -1.5
 S 11 34.60
 KIW 9.59 207 P 09 58.60 -0.2
 MTW 9.64 204 P 09 59.70 0.5
 CAW 9.75 206 P 10 00.20 -0.2
 WDW 9.91 206 P 10 02.70 0.6
 MOW 9.96 204 P 10 03.20 0.6
 MRW 9.99 207 P 10 03.40 0.6
 TCW 10.14 208 P 10 03.60 -0.9
 THZ 11.18 211 P 10 16.10 0.5
 KHZ 11.45 208 P 10 17.90 -0.5
 S 12 21.60
 WB2 43.08 275 iPd 15 02.00 0.0
 0.5s 2.40nm 4.0mb
 WRA 43.09 275 P 15 02.00 0.0
 0.4s 4.80nm 4.4mb
 S.D. = 0.7 on 21 of 21 obs.

APR 04, 1991 09h 00m 36.54 ± 1.27s
 42.940 N ± 7.7km 146.958 E ± 8.6km
 DEPTH = 38.3 ± 10.7 km
 4.8mb (16 obs.) 3.9Msz (3 obs.)
 OFF COAST OF HOKKAIDO, JAPAN (225)

KUSJ 1.66 276 P 01 03.10 -0.5
 eS 01 22.50
 HOOJ 2.76 260 P 01 22.20 2.8
 eS 02 00.60
 ASAJ 3.35 292 eP 01 29.40 1.6
 MRRJ 4.37 265 eP 01 43.20 1.0
 eS 02 31.30
 OFUJ 5.56 228 iP+ 01 58.50 -0.4
 S 02 58.90
 NIJJ 8.34 230 eP 02 37.10 -0.8
 KAKJ 8.52 220 eP 02 37.60 -2.8
 eS 04 07.10
 CHJJ 9.23 224 eP 02 51.70 1.5
 MAT 9.28 229 eP 02 51.00 0.1
 0.9s 10.00nm 5.0mb
 eS- 04 20.00
 MTMJ 9.48 231 eP 02 51.00 -2.7
 MDJ 12.67 284 eP 03 35.60 -1.2
 CN2 15.67 281 eP 04 15.00 -1.0
 1.0s 10.00nm 3.9mb
 Z 16s 1.20um 4.7Msz
 ePP 04 20.00
 YAK 21.67 338 eP 05 24.30 -1.1
 e 05 55.00
 e 09 25.00
 BJI 23.18 273 eP 05 40.00 -0.5
 1.2s 24.00nm 4.6mb
 SSE 23.63 248 P 05 48.50 3.5X
 1.0s 12.00nm 4.4mb
 Z 20s 0.50um 4.0Msz
 TIA 23.88 264 eP 05 47.30 0.0
 NJ2 24.70 253 Pc 05 56.00 0.7
 Z 20s 0.40um 3.9Msz
 TIY 26.71 270 eP 06 15.00 0.9
 Z 20s 0.38um 3.9Msz
 BTO 27.51 278 eP 06 21.00 -0.4
 WHN 28.73 255 eP 06 33.50 1.2
 XAN 30.85 266 Pd 06 51.30 0.0
 GTA 35.30 281 eP 07 29.80 -0.1
 0.8s 10.00nm 4.8mb
 CD2 36.19 265 eP 07 36.80 -0.6
 IMA 39.43 34 eP 08 05.10 0.8
 FBA 41.83 36 eP 08 24.80 0.9
 0.9s 14.90nm 4.7mb
 WMO 42.27 292 P 08 28.00 0.2
 Z 16s 0.30um 4.3MszX
 INK 47.17 30 ePc 09 06.40 -0.2
 0.8s 24.00nm 5.2mb
 MBC 49.63 18 eP 09 25.00 -0.6
 KHT 49.90 251 eP 09 30.80 2.4
 GUN 50.92 274 P 09 36.80 0.3
 0.8s 52.00nm 5.6mb
 KKN 51.43 274 P 09 40.42 0.2
 PKI 51.46 274 P 09 40.38 -0.2
 DMN 51.66 274 P 09 42.08 0.1

0.8s 36.00nm 5.4mb
 GKN 51.78 275 P 09 42.86 0.0
 YKA 56.55 33 eP 10 16.10 -1.0
 0.7s 2.10nm 4.3mb
 SOD 61.16 338 eP 10 47.00 -2.0
 10 57.80
 WB2 63.64 193 iPd 11 06.00 0.1
 0.6s 4.10nm 4.7mb
 WRA 63.64 193 P 11 07.00 1.0
 0.7s 4.10nm 4.6mb
 GBA 65.89 266 Pc 11 20.60 -0.1
 0.7s 7.20nm 4.9mb
 FFC 66.43 36 ePc 11 23.70 0.0
 0.6s 8.00nm 5.0mb
 NUR 66.69 333 eP 11 27.00 1.8
 CMB 67.07 59 ePc 11 30.20 2.1
 11 42.00
 ASPA 67.36 193 eP 11 19.10 -10.7X
 1.2s 2.30nm
 FRB 70.00 16 ePc 11 44.60 -1.0
 HFS 70.38 337 eP 11 46.20 -1.9
 0.5s 3.20nm 4.6mb
 Z 16s 0.11um 4.2mszx
 LR 44 08.00
 KRA 76.47 328 eP 12 24.00 0.2
 CLL 77.97 332 iPc 12 31.40 -0.6
 1.1s 16.00nm 5.0mb
 SIV 144.03 50 PKP 20 04.00 -5.9X
 PDCR 149.25 12 (PKP) 20 24.00 5.5X
 S.D. = 1.2 an 45 of 49 obs.

& APR 04, 1991 09h 09m 39.18s
 59.493 N 152.399 W
 DEPTH = 73.8km
 SOUTHERN ALASKA
 <AEIC>.

XLV 0.35 96 iPc 09 50.43 -0.8
 09 59.35
 HOM 0.42 66 iPc 09 51.34 -0.4
 10 01.22
 AUE 0.52 255 ePc 09 52.13 -0.5
 AUH 0.55 257 ePc 09 52.47 -0.6
 10 01.99
 AUI 0.55 254 ePc 09 52.23 -0.7
 10 02.14
 CNPM 0.59 86 iPc 09 52.82 -0.6
 10 03.26
 NNL 0.78 45 iPc 09 55.77 0.2
 BRK 0.82 70 iPc 09 55.06 -0.9
 10 07.62
 CDD 0.85 229 iPc 09 55.70 -0.7
 10 08.06
 SYI 0.89 180 iPd 09 56.27 -0.4
 10 09.61
 RED 0.95 349 iPd 09 56.75 -0.8
 10 10.41
 PDB 0.96 289 iP 09 56.50 -1.1
 RSO 0.99 350 iPd 09 57.50 -0.7
 RS2 0.99 350 iPd 09 57.52 -0.7
 10 11.68
 REF 1.01 351 iPd 09 57.73 -0.7
 10 10.76
 RDW 1.01 348 iPd 09 57.72 -0.8
 10 11.32
 MCNL 1.04 254 iPc 09 57.47 -1.2
 10 11.52
 RDN 1.04 350 iPd 09 58.08 -0.7
 10 12.02
 RDT 1.08 360 iPd 09 58.37 -0.9
 NCT 1.10 346 iPd 09 58.78 -0.8
 10 13.86
 DFR 1.11 353 iPd 09 58.90 -0.8
 10 14.04
 NKA 1.38 24 ePd 10 04.16 1.1
 SLKM 1.49 46 eP 10 03.52 -1.1
 SEW 1.61 66 eP 10 04.85 -1.3
 SPU 1.70 6 iPd 10 06.98 -0.5
 CKL 1.71 1 iPd 10 07.19 -0.4
 BGL 1.78 0 iPd 10 08.15 -0.4
 CRP 1.78 4 eP 10 08.62 -0.1
 NCG 1.92 3 iPd 10 10.15 -0.4
 SUA 2.14 22 ePd 10 13.43 -0.1
 PMS 2.25 38 iPc 10 14.39 -0.6
 SVW 2.28 317 eP 10 13.70 -1.7
 LTI 2.36 75 eP 10 14.61 -1.9
 MTU 2.45 76 ePc 10 16.82 -0.9

PWA 2.50 29 ePd 10 17.73 -0.6
 KNIM 2.50 68 iPc 10 16.04 -2.4
 SKT 2.53 9 iPd 10 18.01 -0.9
 PLRM 2.65 36 ePd 10 19.02 -1.5
 PMR 2.65 36 eP 10 18.80 -1.7
 KNK 2.74 44 ePc 10 20.23 -1.6
 GHO 2.86 35 ePc 10 22.24 -1.2
 GLI 2.99 60 iPc 10 22.36 -2.9
 CUT 3.10 19 eP 10 26.09 -0.6
 VZW 3.31 59 eP 10 27.08 -2.6
 VLZ 3.44 59 eP 10 28.96 -2.4
 TTA 3.87 335 eP 10 35.00 -2.5
 TOA 4.02 47 eP 10 38.10 -1.6
 FBA 5.84 20 eP 11 03.00 -2.0

48 obs. associated
 & APR 04, 1991 09h 36m 40.34s
 63.634 N 150.328 W
 DEPTH = 11.7km
 2.6mb (1 obs.)
 CENTRAL ALASKA
 <AEIC>. ML 3.2 (PMR), 2.9
 (AEIC).

TRF 0.18 174 iPd 36 44.15 -0.6
 MCK 0.63 80 ePd 36 52.38 -0.4
 BWN 0.66 35 ePc 36 53.53 0.2
 RND 0.70 108 iPd 36 53.78 -0.3
 HUR 0.73 154 iPd 36 54.28 -0.2
 37 04.99
 NEA 1.09 30 ePc 37 00.35 -0.4
 37 15.14
 CUT 1.23 179 iPd 37 03.34 0.2
 WRH 1.29 49 ePc 37 03.56 -0.6
 37 21.89
 CCB 1.50 46 iPc 37 06.34 -0.7
 37 26.68
 RDS 1.53 38 ePc 37 06.76 -0.8
 37 27.87
 MDM 1.61 34 iPc 37 07.88 -0.9
 37 29.87
 HDA 1.68 61 ePc 37 09.10 -0.5
 37 31.76
 FBA 1.69 40 eP 37 09.00 -0.8
 SKT 1.75 199 iPc 37 10.98 0.3
 37 34.75
 GLM 1.87 42 ePc 37 11.55 -0.9
 37 35.87
 GHO 1.98 160 eP 37 14.54 0.5
 37 41.21
 DDM 1.99 84 eP 37 14.75 0.5
 37 41.20
 PWA 2.00 174 eP 37 14.43 0.1
 37 41.87
 PLRM 2.12 164 eP 37 16.22 0.1
 37 44.00
 PMR 2.12 164 ePc 37 17.00 0.9
 SUA 2.19 185 eP 37 17.71 0.5
 37 47.10
 PAX 2.29 105 eP 37 20.18 1.5
 KNK 2.39 158 eP 37 21.28 1.3
 37 51.36
 NCG 2.39 202 eP 37 20.43 0.3
 PMS 2.42 171 eP 37 21.01 0.6
 SDG 2.44 115 iPd 37 22.17 1.5
 37 52.34
 TOA 2.45 127 iPc 37 23.00 2.2
 CRP 2.52 200 eP 37 22.89 0.9
 BGL 2.57 203 eP 37 23.41 0.9
 TTA 2.66 257 eP 37 28.00 4.1
 TZL 2.76 123 eP 37 27.90 2.7
 IMA 2.83 331 eP 37 24.50 -1.8
 VLZ 3.13 142 eP 37 31.39 1.1
 VZW 3.13 144 eP 37 31.94 1.5
 SLKM 3.14 179 eP 37 32.18 1.6
 GLI 3.15 150 eP 37 31.68 1.0
 RDT 3.22 199 eP 37 32.03 0.2
 DFR 3.25 201 eP 37 33.00 0.8
 NCT 3.32 203 eP 37 34.95 1.8
 RDN 3.33 201 eP 37 33.41 -0.1
 REF 3.35 201 eP 37 34.76 1.0
 SVW 3.54 227 eP 37 42.50 6.3
 BALM 4.54 121 eP 37 54.00 3.4
 ANM 6.66 285 eP 38 18.50 -1.8
 INK 8.29 48 P 38 41.00 -2.1
 0.3s 0.50nm 4.3mb X
 YKA 16.10 78 eP 40 30.30 2.6

0.6s 0.30nm 2.6mb
 46 obs. associated
 & APR 04, 1991 09h 39m 07.17s
 60.093 N 153.083 W
 DEPTH = 120.3km
 SOUTHERN ALASKA
 <AEIC>.

RED 0.36 25 eP 39 23.97 -0.8
 39 36.89
 RS2 0.41 23 eP 39 24.25 -0.9
 RSO 0.41 24 eP 39 24.40 -0.7
 RDW 0.41 19 eP 39 24.37 -0.8
 REF 0.44 25 iP 39 24.55 -0.7
 RDN 0.45 21 iP 39 24.59 -0.7
 39 38.10
 NCT 0.48 9 eP 39 24.75 -0.6
 39 38.29
 DFR 0.54 21 eP 39 24.82 -0.9
 RDT 0.59 35 iP 39 25.26 -0.8
 39 38.95
 PDB 0.64 242 iP 39 25.46 -0.9
 39 39.43
 AUI 0.78 193 eP 39 26.82 -0.6
 HOM 0.85 120 eP 39 27.62 -0.4
 39 43.16
 NNL 0.90 92 eP 39 28.39 -0.1
 CNPM 1.09 121 iP 39 29.55 -0.9
 39 46.77
 MCNL 1.11 216 eP 39 29.49 -1.2
 NKA 1.12 54 eP 39 31.89 1.1
 BRK 1.15 106 eP 39 30.27 -0.9
 39 47.91
 CKL 1.17 18 iP 39 30.88 -0.5
 CDD 1.20 194 eP 39 30.37 -1.3
 SPU 1.20 24 iP 39 31.15 -0.6
 39 49.62
 BGL 1.22 16 iP 39 31.66 -0.3
 CRP 1.26 21 iP 39 32.07 -0.4
 NCG 1.39 19 eP 39 33.78 -0.1
 SLKM 1.48 72 eP 39 33.47 -1.4
 SYI 1.53 166 eP 39 33.79 -1.5
 SUA 1.79 39 eP 39 37.90 -0.7
 SEW 1.82 88 iP 39 37.39 -1.4
 SKT 2.04 21 eP 39 41.16 -0.5
 PMS 2.08 55 eP 39 41.13 -1.1
 PWA 2.21 44 eP 39 43.69 -0.1
 PLRM 2.45 50 eP 39 45.52 -1.3
 LTI 2.62 89 eP 39 47.24 -1.9
 KNK 2.63 58 eP 39 48.22 -1.0
 GHO 2.64 49 eP 39 48.23 -1.2
 KNIM 2.68 82 eP 39 47.33 -2.6
 CUT 2.69 29 eP 39 48.85 -1.1
 MTU 2.73 90 eP 39 48.84 -1.7

37 obs. associated
 ? APR 04, 1991 10h 23m 22.66±10.19s
 42.459 N ±71.6km 23.734 E ±40.9km
 DEPTH = 5.0km (geophysicist)
 BULGARIA (359)
 SRS 1.35 185 ePd 23 48.02 0.1
 24 08.58
 VAY 1.43 218 ePn 23 49.50 0.2
 KNT 1.44 206 ePd 23 49.74 0.3
 24 10.30
 SOH 1.66 190 ePd 23 52.42 -0.2
 24 17.14
 GRG 1.80 214 ePd 23 54.22 -0.4
 24 20.58
 PAIG 2.53 181 iPc 24 05.14 0.1
 S.D. = 0.3 an 6 of 6 obs.

? APR 04, 1991 11h 28m 57.58±3.48s
 36.219 N ±27.3km 21.611 E ±15.1km
 DEPTH = 54.3 ±20.3 km
 3.3mb (2 obs.)
 SOUTHERN GREECE (368)
 MD 3.5 (ATH).
 VLI 1.18 65 eP 29 17.88 -0.2
 VLS 2.12 338 eP 29 31.30 0.1
 ATH 2.43 43 eP 29 40.50 5.0X
 AGG 2.86 11 eP 29 44.10 2.4
 IGT 3.46 343 eP 29 49.78 -0.4
 30 30.60

04d 11h

PAIG 4.05 23 eP 29 59.68 1.2
 FNA 4.56 358 eP 30 05.40 -0.3
 GRG 4.77 7 eP 30 08.88 0.2
 SOH 4.79 16 eP 30 09.52 0.5
 OHR 4.93 353 ePn 30 10.80 -0.1
 KNT 5.04 11 eP 30 12.36 -0.1
 SRS 5.13 17 eP 30 12.56 -1.2
 VAY 5.15 8 ePn 30 14.00 0.0
 SKO 5.75 359 ePn 30 21.00 -1.4
 ALN 5.82 35 eP 30 22.08 -1.3
 HFS 24.47 350 eP 34 12.20 -0.2
 0.4s 0.80nm 3.6mb
 YKA 75.53 341 eP 40 38.00 0.5
 0.5s 0.10nm 3.0mb
 S.D. = 1.0 on 16 of 17 obs.

APR 04, 1991 12h 09m 48.75±0.42s
 82.482 N ± 8.6km 117.534 E ± 7.6km
 DEPTH = 10.0km (geophysicist)
 4.7mb (9 obs.) 4.3Msz (1 obs.)
 NORTH OF SEVERNAYA ZEMLYA (651)

MBC 19.05 38 eP 14 15.00 2.2
 YAK 20.80 164 eP 14 30.00 -2.0
 KEV 21.74 290 eP 14 43.00 1.5
 0.6s 23.50nm 4.8mb
 SOD 24.04 288 iP 15 04.30 0.2
 15 18.00
 ANM 24.93 87 eP 15 15.00 2.2
 IMA 25.02 75 eP 15 16.30 2.6
 INK 25.27 55 ePd 15 16.00 0.2
 KAF 29.13 285 eP 15 50.10 -1.1
 NUR 30.89 286 eP 16 28.30 21.5X
 0.4s 4.50nm
 NB2 32.01 298 P 16 15.30 -1.5
 0.8s 2.50nm 4.2mb
 YKA 32.81 43 eP 16 21.20 -2.5
 1.0s 2.70nm 4.1mb
 OBN 34.60 272 eP 16 39.00 -0.2
 Z 14s 0.50um 4.4MszX
 WMO 39.95 214 P 17 24.50 0.2
 Z 20s 0.40um 4.3Msz
 CLL 41.33 293 eP 17 35.00 -0.5
 BRG 41.64 292 e(P) 17 39.50 1.4
 2.0s 30.00nm 4.7mb
 MOX 42.15 294 eP 17 43.50 1.3
 BJI 42.58 182 eP 17 47.50 1.7
 GTA 43.61 200 eP 17 55.00 0.5
 Z 14s 0.60um 4.7MszX
 N 16s 0.80um
 CMP 45.75 280 ePc 18 13.00 1.6
 NEW 46.64 49 P 18 18.50 0.1
 0.7s 10.00nm 5.0mb
 LZH 46.77 195 eP 18 20.50 0.8
 1.5s 17.00nm 4.9mb
 Z 15s 0.29um 4.4MszX

RSSD 51.92 37 P 18 58.00 -1.4
 1.1s 12.42nm 4.8mb
 GUN 55.89 214 P 19 28.32 -0.6
 GKN 55.89 215 P 19 27.60 -1.1
 GOL 56.20 39 P 19 29.80 -1.2
 DMN 56.25 215 P 19 30.78 -0.6
 PKI 56.26 215 P 19 30.88 -0.7
 GYA 56.27 192 P 19 31.60 0.2
 TNP 56.71 50 P 19 34.30 -0.3
 0.9s 4.30nm 4.5mb
 ANMO 60.83 41 P 20 01.50 -1.7
 ALO 60.83 41 eP 20 01.80 -1.4
 1.1s 6.65nm 4.7mb
 S.D. = 1.4 on 30 of 31 obs.

APR 04, 1991 12h 28m 07.44±0.83s
 42.458 N ± 8.3km 24.127 E ± 9.0km
 DEPTH = 10.0km (geophysicist)
 BULGARIA (359)
 MD 2.5 (THE).

SRS 1.40 197 ePc 28 32.28 -0.7
 KNT 1.59 216 ePd 28 35.12 -0.5
 VAY 1.63 226 ePn 28 35.50 -0.7

SOH 1.73 200 ePc 28 37.24 -0.6
 GRG 1.98 221 ePd 28 42.36 1.0
 SKO 2.05 257 iPn 28 43.50 1.1
 ALN 2.12 137 ePc 28 44.40 1.0
 PAIG 2.55 188 ePc 28 49.48 0.0
 VRI 3.89 28 ePd 29 08.00 -0.5
 S.D. = 0.9 on 9 of 9 obs.

% APR 04, 1991 12h 43m 50.77±0.92s
 61.274 N ± 4.1km 4.739 E ± 12.2km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN NORWAY (535)
 MD 2.3 (BER).

SUE 0.22 177 iPgc 43 55.59 0.1
 FOO 0.36 24 iPg 43 58.15 0.0
 FRO 0.49 8 iPg 44 02.68 -0.1
 HYA 0.71 98 iPc 44 04.36 -0.4
 BER 0.94 162 eP 44 08.32 -0.4
 ODD1 1.65 145 iP 44 20.80 0.8
 MOL 1.86 44 eP 44 23.07 0.2
 KMY 2.08 173 eP 44 25.83 -0.3
 S.D. = 0.5 on 8 of 8 obs.

* APR 04, 1991 14h 22m 14.29±1.38s
 18.392 S ± 8.4km 168.102 E ± 9.2km
 DEPTH = 25.9 ± 9.4 km
 4.4mb (8 obs.)
 VANUATU ISLANDS (186)

PVC 0.68 17 iPd 22 28.10 0.7
 BKM 0.73 11 iPd 22 28.20 -0.2
 DZM 3.98 203 iPc 23 14.40 -0.8
 SGE 9.38 87 eP 24 36.50 5.5X
 HNR 11.91 317 eP 25 05.00 -0.5
 VSG 12.20 317 eP 25 08.00 -1.4
 SVO 12.21 318 P 25 10.00 0.5
 RMO 19.60 242 iPd 26 44.60 0.9
 CTA 20.70 262 iPc 26 57.10 1.9
 1.0s 32.00nm 4.7mb
 CNB 23.67 221 eP 27 28.00 3.3X
 STK 27.41 236 eP 28 20.70 20.8X
 0.9s 5.00nm
 W82 31.89 262 iPc 28 38.10 -1.8
 0.8s 2.60nm 4.2mb
 MAT 61.51 333 eP 32 29.00 -2.3
 SPA 71.72 180 iPd 33 36.00 0.0
 1.0s 10.00nm 4.8mb
 CN2 73.18 329 eP 33 45.00 0.4
 LZH 81.36 312 eP 34 32.50 2.0
 PP 34 42.00
 SP 34 47.00

YAK 85.72 343 iP 34 52.40 0.5
 GTA 85.76 314 eP 34 54.20 1.4
 1.0s 10.00nm 5.0mb
 CMB 87.40 49 eP 35 00.60 -0.1
 FRI 87.44 50 e(P) 35 00.60 -0.2
 LSA 88.17 302 P 35 05.20 0.1
 FBA 89.59 17 eP 35 11.00 0.5
 1.0s 1.00nm 4.0mb
 TNP 89.69 50 eP 35 11.00 -0.8
 0.9s 1.56nm 4.3mb
 NEW 93.83 40 eP 35 31.00 0.6
 1.0s 2.25nm 4.6mb
 YKA 100.41 27 ePd 36 00.10 0.1

0.6s 0.20nm 3.8mb
 ABH 144.92 338 ePKP 41 49.43 -1.3
 S.D. = 1.2 on 23 of 26 obs.

% APR 04, 1991 14h 54m 16.21±0.87s
 37.736 N ± 7.1km 14.983 E ± 8.0km
 DEPTH = 10.0km (geophysicist)
 SICILY (398)

MNO 0.30 311 P 54 22.10 -0.5
 ATN 0.57 42 P 54 27.90 0.2
 MEU 0.64 184 P 54 28.90 -0.1
 GIB 0.80 289 P 54 32.30 0.5
 MGR 2.44 10 P 54 56.60 -0.1
 S.D. = 0.5 on 5 of 5 obs.

* APR 04, 1991 15h 10m 08.68±0.29s
 55.646 S ± 10.4km 124.422 W ± 7.3km
 DEPTH = 10.0km (geophysicist)
 5.3mb (6 obs.) 5.3Msz (2 obs.)
 EASTER ISLAND CORDILLERA (684)
 Mo=1.6*10**18 Nm (PPT).

AIA 30.00 133 e(P) 16 18.00 -1.1
 SBA 31.95 202 (P) 16 51.50 15.3X
 SPA 34.53 180 eP 16 59.00 0.0
 1.0s 65.00nm 5.5mb
 Z 20s 3.83um 5.1Msz
 SNZO 41.44 264 P 18 04.00 7.3X
 S 24 16.00
 LNV 42.14 82 eP 18 02.00 -0.5
 SAN 42.93 82 eP 18 10.50 1.5
 PEL 43.15 82 iPc 18 11.00 0.2
 RUV 44.07 327 iP 18 17.60 -0.7
 1.4s 50.00nm 5.2mb
 VAH 44.10 327 iP 18 18.20 -0.4
 1.4s 40.00nm 5.1mb
 MDZ 44.37 83 i(P) 18 20.40 -0.4
 NVL 50.10 163 iP 19 05.00 -0.1
 1.6s *****nm 8.3mb X
 Z 18s 3.50um 5.4Msz

ARE 55.95 68 eP 19 49.00 -0.6
 MAW 56.95 183 eP 19 56.00 0.2
 1.1s 53.00nm 5.5mb
 CNCB 57.53 71 P 20 00.90 -0.2
 LPB 57.69 71 P 20 01.80 -0.3
 ZOBO 57.89 71 P 20 02.00 -1.7
 CCH 58.05 73 P 20 04.50 0.1
 CNB 59.69 251 ePd 20 16.10 0.6
 TOO 60.03 247 ePc 20 18.00 0.2
 SIV 61.96 77 iPd 20 28.80 -2.2
 PPD 62.61 89 (P) 20 36.00 0.7
 VAO 64.31 94 eP 20 42.40 -4.1X
 CMS 64.52 251 iPd 20 47.10 -0.6
 1.1s 36.00nm 5.5mb
 BMA 66.14 96 (P) 20 57.00 -1.3
 STK 66.46 248 eP 21 19.70 19.6X
 0.9s 7.20nm
 OIS 76.57 253 iPc 22 00.20 -0.6
 ASPA 77.08 247 iPd 22 02.30 -1.3
 1.6s 19.40nm 4.9mb
 Z 23s 2.90um 5.5MszX

ANMO 91.53 15 eP 23 15.90 -0.4
 YKA 118.05 5 ePKP 28 57.40 1.6
 0.8s 1.10nm
 MAT 123.16 287 ePKP 29 11.00 4.6X
 INK 123.82 356 ePKP 29 09.00 2.3X
 FRB 126.61 27 ePKP 29 10.00 -2.2X
 MBC 131.66 2 ePKP 29 25.50 4.0X
 0.7s 4.00nm
 CN2 135.19 285 ePKP 29 32.80 3.6X
 YAK 143.08 311 ePKP 29 47.80 4.9X
 e 30 15.00
 e 30 17.00
 LSA 143.83 239 ePKP 29 46.20 0.3
 PKI 144.67 230 PKP 29 45.12 -2.1X
 GUN 144.76 231 PKP 29 45.70 -1.7

DMN	144.83	229	PKP	29	45.60	-1.8	CMP	158.14	106	ePKPc	30	06.00	0.0	iS	25	58.20				
KKN	144.92	230	PKP	29	45.90	-1.6	MLR	158.77	106	ePKP	30	11.00	4.2X	GGP	6.01	346	P	24	52.94	1.7
RJF	144.93	84	ePKP	29	45.40	-1.3				e	41	23.50		YANA	6.06	346	iPd	24	52.80	1.0
	1.0s	32.00nm					VRI	159.43	106	ePKP	30	09.00	1.7	CAYA	6.14	352	P	24	52.00	-1.0
CAF	145.01	85	ePKP	29	46.30	-0.5				e	41	05.50		HUA	6.22	163	iP	24	57.60	3.5X
	1.4s	191.70nm					MAIO	160.47	189	ePKP	30	13.00	4.1X				i	25	11.40	
GKN	145.38	229	PKP	29	46.72	-1.4	NUR	163.04	61	ePKP	30	24.00	13.5X				iS	25	59.50	
FLN	145.80	78	ePKP	29	48.60	0.6	OBN	169.19	85	ePKP	30	30.00	14.5X	COTA	6.44	349	eP	24	58.10	0.7
TCF	145.90	83	ePKP	29	47.60	-0.7							PSO	7.18	358	eP	25	07.50	-0.1	
BGF	146.42	83	ePKP	29	50.10	1.0							PURC	8.34	5	P	25	23.48	-0.4	
	1.0s	52.00nm											SILC	8.70	5	P	25	28.20	-0.6	
LMR	146.54	91	ePKP	29	50.70	1.3							HOOC	9.46	3	P	25	39.33	0.2	
	1.4s	78.40nm											ANCC	9.49	2	P	25	40.11	0.7	
GTA	146.67	260	PKPd	29	51.00	1.1							CLMC	9.87	3	P	25	44.93	0.2	
		e											HOBC	10.37	6	P	25	51.18	-0.4	
FRF	146.76	90	ePKP	29	51.30	1.6							BOG	11.02	16	iPc	26	04.00	3.3X	
	1.4s	61.00nm													iS	28	14.00			
DAG	146.81	24	iPKPc	29	55.80	7.0X							ARE	11.74	152	eP	26	09.00	-1.4	
	1.0s	16.00nm											ZOBO	13.46	140	ePd	26	31.12	-2.6	
AVF	146.84	83	ePKP	29	51.00	1.3							BMG	13.64	17	eP	26	36.00	0.5	
	0.9s	19.65nm											LPB	13.68	140	P	26	34.00	-2.4	
SMF	147.03	84	ePKP	29	51.80	1.7										S	29	12.00		
	1.0s	24.00nm														eLR	32	00.00		
SSF	147.08	83	ePKP	29	51.60	1.5							CNCB	13.96	141	P	26	37.00	-3.2X	
LBF	147.30	83	ePKP	29	52.20	1.6							UPA	15.11	351	ePc-	26	56.00	1.2	
LOR	147.39	83	ePKP	29	52.60	1.9X										S	29	48.00		
	0.8s	18.15nm											GCH	15.57	137	eP	26	58.00	-3.1X	
SBF	147.40	91	ePKP	29	52.30	1.5							SDV	16.18	24	eP	27	07.60	-1.2	
	1.4s	87.15nm											TOV	17.34	25	iP	27	21.90	-1.4	
PGF	147.45	94	ePKP	29	54.70	3.7X										iS	30	28.30		
	0.9s	32.75nm											CEOS	17.35	30	iP	27	20.70	-2.7	
BNI	147.70	88	PKP	29	54.00	2.6X							SIV	18.59	123	iPd	27	35.00	-3.8X	
LPG	148.00	88	ePKP	29	55.60	3.5X							ANT	18.72	160	iPd	27	39.90	-0.3	
	1.2s	53.55nm													i(S)	31	04.00			
LPL	148.00	88	ePKP	29	55.50	3.5X							MORO	18.95	28	iP	27	43.00	-0.3	
	1.2s	40.15nm											CAR	19.32	32	eP	27	47.00	-0.8	
HLW	148.99	136	ePKP	29	58.20	4.5X							LLAV	19.36	32	iP	27	47.20	-1.0	
HAU	149.20	83	ePKP	29	57.40	3.9X										iS	30	15.10		
	0.8s	10.75nm											GUAN	19.58	36	iP	27	50.90	0.2	
KOT	149.25	137	ePKP	29	57.00	2.9X							CUM	20.86	38	iP	28	01.00	-3.0X	
DOU	149.32	79	PKP	29	59.60	6.0X										iS	31	46.50		
BSF	149.36	84	ePKP	29	58.00	4.1X							SLA	21.68	150	ePd	28	13.00	0.6	
	0.8s	10.75nm											TPP	22.53	44	eP	28	22.62	1.8	
VAI	149.37	89	PKP	29	58.00	4.3X										eS	32	27.62		
MGR	149.51	104	PKP	29	58.00	3.8X							TCE	22.60	43	eP	28	21.30	-0.2	
TDS	149.61	105	PKP	29	58.50	4.1X										eS	32	26.13		
DUI	149.94	100	PKP	30	01.00	6.1X							TRN	22.80	43	eP	28	23.60	0.2	
SAL	150.21	91	PKP	30	00.00	5.0X										e	28	43.18		
MBH	150.23	142	ePKP	30	02.00	6.3X										eS	32	26.14		
ARV	150.29	96	PKP	30	01.00	5.7X										e	32	29.79		
PRNI	150.80	141	iPKPd	30	03.00	6.5X							TBH	22.92	44	eP	28	25.36	0.8	
VLS	150.82	112	ePKP	30	05.50	9.3X							PIG	23.55	44	eP	28	31.84	1.1	
VLI	150.92	117	ePKP	30	05.40	9.0X							BOT	23.64	44	eP	28	32.36	0.8	
NPS	151.09	122	ePKP	30	02.80	6.1X							RTRS	25.07	164	ePc	28	47.20	1.9	
CTI	151.10	91	PKP	30	01.50	5.0X							GCM	25.51	351	eP	28	48.00	-1.5	
WTS	151.46	77	ePKP	30	03.00	6.3X							TPX	25.65	324	(P)	28	52.50	1.6	
	1.0s	25.00nm											MGP	25.87	22	P	28	52.00	-0.8	
IRK	151.60	284	ePKP	30	05.00	8.0X							BIM	25.90	38	eP	28	52.21	-1.0	
	1.8s	*****nm											FDF	26.02	37	eP	28	52.38	-2.0	
		e													S	33	57.00			
		e																		
DSI	152.04	141	ePKP	30	07.00	8.8X							MVM	26.03	38	eP	28	52.74	-1.7	
FVI	152.06	91	PKP	30	11.00	13.3X							PORP	26.08	23	P	28	55.00	0.1	
TRI	152.10	93	PKP	30	10.00	12.1X							DBCT	26.32	36	eP	28	56.21	-0.9	
RIY	152.24	94	ePKP	30	04.40	6.3X							MDN	26.33	36	eP	28	56.81	-0.3	
VOY	152.37	93	e(PKP)	30	11.00	12.6X							SJG	26.33	24	P	28	57.00	-0.2	
CEY	152.50	94	e(PKP)	30	08.00	9.5X							CPD	26.36	25	P	28	57.00	-0.5	
LJU	152.73	93	ePKP	30	09.50	10.7X							RTL	26.44	163	ePd	28	57.80	-0.3	
VBY	152.83	95	e(PKP)	30	17.80	18.9X							BBL	26.44	36	eP	28	57.70	-0.6	
GRF	152.83	84	e(PKP)	30	07.50	8.7X							RTCB	26.49	164	ePd	28	59.00	0.3	
KZN	153.00	110	ePKP	30	03.10	3.7X							ZON	26.58	164	eP	28	58.70	-0.8	
QUE	153.30	202	ePKP	30	09.40	9.1X							LPR	26.62	24	P	28	59.00	-0.9	
		eS											PAG	26.73	35	eP	29	00.34	-0.6	
		e											CFA	26.77	163	e(P)	29	00.00	-1.1	
PTJ	153.46	95	ePKP	30	14.00	14.1X							DOG	26.77	35	eP	29	00.82	-0.4	
MOX	153.51	82	ePKP	30	08.00	8.3X							MGG	26.85	35	eP	29	00.90	-1.0	
	1.3s	27.00nm											SEG	27.13	35	eP	29	04.28	-0.2	
SKO	154.00	107	ePKP	30	04.00	3.3X							DEG	27.31	35	eP	29	04.52	-1.7	
	1.1s	68.00nm											SCX	27.33	326	(P)	29	19.00	12.7X	
		i											ROCH	27.40	169	eP	29	07.00	-0.1	
VAY	154.15	110	ePKP	30	01.40	0.5							PEL	27.63	168	iPc	29	09.00	0.0	
CLL	154.60	82	ePKP	30	15.00	13.9X										1.0s	460.00nm		6.1mb	
BRG	154.93	83	ePKP	30	14.00	12.4X							MDZ	27.80	165	i(P)	29	11.60	1.0	
	2.4s	70.00nm											SAN	27.93	168	eP	29	11.50	-0.2	
BZS	156.46	101	ePKP	30	04.00	0.2							CPB	27.96	32	eP	29	10.27	-1.8	
SPC	157.69	92	ePKP	30	16.00	11.3X							TACH	28.07	169	eP	29	13.20	0.2	
		e											PCH	28.12	168	eP	29	13.70	0.2	
		e											LNV	28.28	170	eP	29	14.00	-0.8	
KRA	157.94	90	ePKP	30	20.00	14.5X														
		e																		
		eS																		
		e																		
		e																		
		e																		
		e																		
		e															</			

04d 15h

ITB1	28.60	133	eP	29	16.90	-0.9				esS	40	58.04			1.5s	990.00nm	6.7mb
ITB	28.82	133	e(P)	29	19.50	-0.3	MWC	55.66	319	ePc	32	58.00	-0.1	CFTV	69.66	57 eP	34 32.00 0.8
ITB7	29.04	133	e(P)	29	21.00	-0.8	PAS	55.69	319	ePc	32	58.10	0.0	FRB	69.89	4 ePc	34 30.40 -1.4
PPD	29.58	125	eP	29	25.00	-1.7				epPd	33	03.07	16kmX		1.0s	117.00nm	6.0mb
			e	29	28.50					ePcP	34	00.00		PMO	69.91	256 iP	34 33.50 0.7
OXx	30.05	320	(P)	29	34.50	3.4X				ePP	35	23.00			1.5s	1320.00nm	6.8mb
BAO	30.13	111	ePd	29	30.40	-1.4				eS	40	48.45		TVO	71.18	253 iP	34 41.30 0.7
BDF	30.22	111	iPd	29	31.23	-1.3				i	41	03.90		PPN	71.35	254 iP	34 42.00 0.4
			epPd	29	38.01	23kmX				e	41	26.80		TBI	71.42	247 iP	34 43.90 2.0
			iS	34	27.46					eScS	42	46.00			1.3s	660.00nm	6.6mb
IISM	31.88	322	(P)	29	48.50	1.6				eSS	44	43.61		PPT	71.49	254 iP	34 43.10 0.7
LVVM	31.90	324	(P)	29	44.50	-2.6				eLg	46	40.00			1.5s	1155.00nm	6.7mb
ACX	31.98	316	(P)	29	49.00	1.1				eLR	47	52.00		PAE	71.49	253 iP	34 43.20 0.8
IIT	32.49	320	(P)	29	55.00	2.4	SBB	55.79	319	eP	32	58.00	-0.9	AFR	71.68	254 iP	34 44.20 0.6
PPM	32.72	320	(P)	29	56.50	1.6	DAU	55.87	329	P	32	59.20	-0.4	LKO	72.94	78 P	34 50.52 -0.6
III	32.77	318	(P)	29	56.00	1.0	DUG	56.52	328	P	33	03.40	-0.8	LIC	72.99	82 P	34 50.78 -0.6
UNM	33.27	320	(P)	30	03.00	3.6X	ISA	56.81	320	ePc	33	06.07	-0.2		Z 20s	54.40um	6.8Msz
VAO	33.60	123	ePd	29	59.50	-2.5				epPd	33	12.53	21kmX	TIC	73.05	81 P	34 51.26 -0.6
			e	30	09.40					iS	41	01.76			0.9s	93.00nm	5.8mb
LPA	33.75	151	ePd-	30	02.00	-1.1				esS	41	13.62		KIC	73.29	82 P	34 52.78 -0.4
	1.0s	752.00nm			6.6mb				esS	45	02.85			0.8s	84.00nm	5.8mb	
Z	20s	56.74um			6.3Msz		SBC	56.88	318	ePc	33	06.06	-0.5				
			iS	35	26.00					esPd	33	16.99		YKA	74.10	343 eP	44 19.00 -3.2x
MRX	34.86	318	(P)	30	15.00	2.3				ePP	35	17.82			0.9s	51.40nm	5.6mb
CGX	36.41	315	(P)	30	29.50	3.3X				eS	41	03.01		TIO	76.07	56 iPd	35 10.80 1.7
HBF	38.88	356	P	30	46.50	0.1	SYP	57.11	318	eP	33	08.00	-0.4				35 25.00
VNM	39.03	325	(P)	30	51.00	3.2X	TNP	57.57	323	P	33	11.00	-0.7	AVE	76.61	54 iP	35 13.00 1.1
SGS	39.15	356	P	30	48.00	-0.7				1.0s	67.50nm	5.6mb				35 46.50	
CAI	39.75	93	iP	30	51.40	-2.7	RKT	58.12	247	iP	33	15.00	-0.5	GDH	76.87	8 iP-	35 13.00 0.4
PRM	40.21	353	P	30	57.00	-0.5				1.2s	360.00nm	6.3mb				44 58.00	
JSC	40.29	355	P	30	57.50	-0.6	FRI	58.42	321	ePc	33	15.80	-1.5				50 02.00
GBTN	42.01	351	P	31	11.50	-0.8	PRI	58.52	319	ePc	33	17.70	-0.5	PTO	78.08	46 iPd	35 20.00 0.2
PWLA	42.08	347	P	31	11.20	-1.6	LLA	58.98	319	ePc	33	20.60	-0.7				eS 45 12.00
RSCP	42.17	350	ePc	31	12.10	-1.5	PRS	59.09	319	ePc	33	21.60	-0.5	EVAL	78.36	50 eP	35 22.50 1.1
	Z 22s	52.91um			6.4Msz		SAO	59.39	319	e(P)	33	23.00	-1.2	IFR	78.50	54 iPc	35 23.00 0.4
BLA	43.13	356	ePc	31	21.50	0.0	CMB	59.48	321	ePc	33	23.64	-1.2	SIT	78.53	332 P	35 23.00 1.1
	0.8s	78.36nm			5.5mb				epPd	33	28.94	17kmX		Z 20s	20.00um	6.4Msz	
Z	20s	28.37um			6.2Msz				esPd	33	34.07		PLAT	78.70	51 eP	35 27.50 4.1x	
					-0.3		ARN	59.79	320	P	33	27.00	0.0	ALJ	78.98	51 eP	35 27.00 2.0
NAV	43.26	356	P	31	22.20	-0.3				ePP	35	33.57		EJIF	79.02	51 eP	35 27.10 2.0
OLY	43.47	343	P	31	22.70	-1.5	MHC	59.86	320	ePc	33	27.20	-0.3	LIJA	79.19	51 eP	35 28.00 1.9
CVL	43.81	358	P	31	26.70	-0.2	PCC	60.43	320	ePc	33	30.50	-0.7	ERUA	79.52	45 eP	35 28.30 0.6
NA2	43.94	359	P	31	28.20	0.3	LRM	60.48	332	eP	33	30.80	-1.0	EHOR	79.57	50 eP	35 28.70 0.7
BIX	45.34	339	iP	31	39.50	0.2	BKS	60.55	320	ePc	33	32.00	-0.1	EPLA	79.58	48 eP	35 28.60 0.5
FVM	45.51	345	iPc	31	38.60	-2.0				1.4s	385.00nm	6.3mb	EMON	79.71	44 eP	35 29.30 0.5	
	1.1s	250.00nm			6.1mb		Z 20s	17.00um				6.2Msz	MAL	79.91	51 iPd	35 31.80 1.9	
			e	31	49.50		N 20s	3.60um								iS 45 36.00	
SCP	46.61	359	ePc	31	48.36	-0.8	E 20s	21.00um					ECOG	80.71	51 eP	35 35.00 0.7	
			epPd	31	54.82	22kmX				ePP	35	52.00		AFC	80.72	51 eP	35 36.00 1.6
			ePP	33	40.59					iS	41	51.00		TOL	81.03	48 ePc	35 36.11 0.3
GMTN	46.77	3	iP	31	51.10	0.7				eScS	43	11.00			1.1s	101.27nm	5.8mb
PNJ	46.79	3	iP	31	50.90	0.3				eSS	46	05.00					epPd 35 42.41 20kmX
			PcP	33	44.50					e	49	04.00					ePP 38 46.00
TXNY	47.06	3	iP	31	53.00	0.3	BRK	60.57	320	ePc	33	31.80	-0.4				iS 45 44.44
CLE	47.47	356	iP	31	54.70	-1.3				eLR	53	23.00		GUD	81.15	47 eP	35 37.50 0.9
DLA	48.83	356	P	32	04.65	-1.9				eLQ	50	27.00		EVIA	81.87	50 eP	35 42.90 2.6
LDN	48.98	356	P	32	05.95	-1.8				eLR	53	23.00		ECRI	82.86	46 eP	35 46.70 1.4
ELF	49.14	356	P	32	07.00	-2.0				eLR	53	23.00		ECB	82.96	36 eP	35 46.30 0.8
ALO	49.25	328	iPc+	32	10.00	-0.2				eLR	55	40.00			0.9s	115.00nm	6.0mb
	0.9s	133.40nm			6.0mb		ZSP	60.61	320	ePc	33	32.30	-0.1	ECP	83.14	36 eP	35 47.00 0.6
	Z 18s	14.43um			6.0Msz		ORV	61.10	322	ePc	33	35.60	-0.1		0.9s	115.00nm	6.0mb
ANMO	49.25	328	ePc	32	10.42	0.2	MIN	61.64	323	ePc	33	38.00	-1.6		83.29	21 eP	35 47.90 1.0
	0.9s	130.25nm			6.0mb		WDC	62.35	322	iPc	33	41.60	-2.6		2.5s	666.67nm	6.4mb
Z	19s	14.58um			6.0Msz		MBO	63.03	71	iPd	33	49.90	0.9	ETA	83.40	35 iPd	35 48.20 0.5
			epPd	32	15.05	16kmX				iS	42	19.90			1.1s	131.00nm	6.0mb
			esPd	32	19.69		FHC	63.37	322	ePc	33	51.10	0.2		83.43	50 eP	35 49.20 0.9
			ePP	34	08.10		SES	63.39	336	iPc	33	49.70	-1.2	ACU	83.59	334 iPc	35 48.00 -0.7
			eS	39	18.23					1.3s	474.00nm	6.5mb	BALM			35 52.30	
GAC	51.53	1	ePc	32	26.00	-1.1				pP	34	00.00	33kmX				i 35 54.00
	1.0s	102.00nm			5.7mb		FFC	64.00	344 iPc	33	53.50	-1.3				i 35 59.00	
GLD	52.42	333	ePc	32	34.10	-0.1				1.6s	289.00nm	6.2mb				i 36 23.00	
	1.5s	312.50nm			6.0mb		NEW	64.44	332 iPc	33	56.70	-1.2				eSKS 46 04.00	
Z	20s	9.50um			5.8Msz					1.0s	182.50nm	6.2mb				iSKKS 46 12.00	
GOL	52.45	333	iPc	32	33.70	-0.8	LON	65.77	328 ePc	34	04.96	-1.5	INK	83.82	342 eP	35 49.00 -0.6	
	Z 20s	12.50um			6.0Msz				esPd	34	14.23			1.0s	223.00nm	6.3mb	
BAR	53.80	318	eP	32	44.00	-0.3	CHIE	66.20	56 eP	34	09.00	-0.5	NVL	84.00	161 iP	35 51.00 0.5	
TPC	54.29	320	eP	32	48.00	0.1	RMW	66.22	329 P	34	09.00	-0.4		1.4s	*****nm	8.7mb X	
PLM	54.34	319	eP	32	48.00	-0.5	PNT	66.36	331 iPc	34	10.10	-0.1				i 35 54.00	
PEC	54.87	319	ePc	32	51.50	-0.7				0.9s	146.00nm	6.1mb				i 36 23.00	
MSU	54.97	327	P	32	52.80	-0.3	EDM	66.49	337 iPc	34	09.60	-1.3				eSKS 46 04.00	
RVR	55.07	319	eP	32	58.00	4.4X	TBT	66.59	55 eP	34	13.00	1.0				i 36 23.00	
RSSD	55.51	337	iPd	32	56.20	-0.7	PGC	67.83	329 eP	34	19.50	0.1				eSKS 46 12.00	
	1.2s	244.17nm			6.1mb				1.1s	144.00nm	6.0mb				eSS 51 46.00		
Z	20s	15.82um			6.1Msz		RUV	69.41	256 iP	34	30.40	0.6	EGRA	84.34	47 eP	35 56.30 3.6X	
GSC	55.53	321	ePc	32	57.27	0.3				1.5s	1320.00nm	6.9mb	EROO	84.56	48 eP	35 55.00 1.1	
			epPd	33	02.07	16kmX	TPT	69.64	256 iP	34	31.90	0.7	EBR	84.62	48 iP	35 56.00 1.9	
			esPd	33	08.19					1.5s	1485.00nm	6.9mb				i 46 18.00	
			eS	40	45.90		VAH	69.65	256 iP	34	31.80	0.5	BTH	84.63	46 ePd	35 55.00 0.8	

										ipP 36 09.00 48kmX (PPP) 41 22.00 eSKS 46 18.00										Z 19s 10.75um 6.3Msz EMS 90.19 44 ePd 36 21.60 0.3 WLF 90.22 40 iPd 36 22.00 1.0										Z 18s 6.50um 6.1Msz N 24s 6.00um E 24s 2.00um																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
EPF	85.00	46	iPd	35	57.40	1.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

04d 15h

MAIO 1.4s 172.09nm 42 31.20 -0.4
 OFUJ 130.21 47 iPKPc 42 34.00 -0.8
 YAMJ 131.98 319 ePKP 42 37.40 -0.4
 IRK 133.55 319 PKP 42 25.70 -12.3X
 IRK 133.90 359 ePKP 42 36.20 -1.8
 Z 2.2s 146.00nm
 Z 21s 6.93um 6.3MsZ
 e 42 39.20
 e 42 56.30
 e 43 08.00
 ePP 45 05.00
 eSKS 46 07.30
 e 46 57.00
 e 47 30.00
 e 50 40.00
 e 55 09.00
 ePS 58 08.00
 eSS 02 47.00
 e 04 47.00
 HIA 134.62 345 ePKPc 42 38.29 -1.2
 e 42 51.20
 ePP 45 08.91
 eSKP 46 06.30
 QIS 135.27 233 e(PKP) 42 35.00 -6.5X
 e 46 09.00
 MAT 135.67 318 ePKP 42 21.00 -20.9X
 Z 20s 11.35um 6.6MsZ
 GAR 135.95 37 ePKP 42 40.00 -2.5X
 i 45 25.00
 i 46 11.00
 e 55 23.00
 e 57 19.00
 ASPA 137.70 225 iPKPd 42 33.90 -12.3X
 Z 23s 9.90um 6.5MsZ
 i 42 44.40
 ePP 45 26.50
 iPKS 46 17.80
 TSRJ 137.72 319 PKP 42 38.50 -7.3X
 GUA 137.96 283 ePKP 42 38.00 -8.8X
 Z 18s 8.25um 6.5MsZ
 KSH 138.84 32 ePKP 42 47.60 -0.3
 E 18s 12.20um
 MUN 140.11 198 ePKP 42 44.00 -6.2X
 BAL 141.23 199 iPKPc 42 45.00 -7.3X
 KUMJ 142.94 319 ePKP 42 49.20 -6.0X
 DL2 143.14 335 PKP 42 50.00 -5.3X
 Z 24s 4.30um 6.1MsZ
 N 20s 6.20um
 E 20s 4.80um
 KAGJ 143.73 317 ePKP 42 52.20 -4.4X
 BJI 144.09 342 ePKPc 42 51.21 -5.7X
 Z 26s 7.58um 6.3MsZ
 E 18s 4.66um
 ePKP 42 57.34
 esPKP 43 01.31
 ePP 46 06.00
 eSS 04 46.00
 MEKA 144.17 204 ePKP 42 53.90 -3.6X
 HHC 144.48 349 PKPc 42 55.00 -2.7X
 Z 23s 12.70um 6.6MsZ
 N 23s 5.90um
 E 18s 3.70um
 PP 46 12.00
 BTO 145.00 350 iPKPc 42 57.00 -1.6
 N 21s 7.40um
 E 21s 5.00um
 pPKP 43 09.00
 PP 46 13.00
 MTN 146.23 236 ePKP 43 01.40 0.2
 0.3s 142.00nm
 KNA 146.44 230 ePKP 43 01.90 0.4
 0.7s 212.00nm
 GTA 146.66 4 iPKPc 43 01.20 -0.2
 Z 23s 12.60um 6.6MsZ
 N 18s 7.10um
 e 43 05.00
 pPKP 43 12.00
 sPKP 43 18.00
 PP 46 24.00
 PKS 46 26.00
 SKS 50 04.00
 SKKS 53 12.00
 SS 05 14.00
 NDI 146.89 44 ePKP 43 02.00 0.1
 TIA 147.25 338 PKPc 43 01.70 -0.6
 Z 22s 7.00um 6.4MsZ

N 18s 2.90um
 E 18s 3.20um
 PP 46 24.00
 TIY 147.29 346 PKPc 43 02.00 -0.4
 Z 24s 8.10um 6.4MsZ
 N 24s 8.60um
 PP 46 27.50
 SKS 50 04.50
 SS 05 26.00
 MBL 148.26 211 ePKP 43 04.00 -0.3
 POO 149.11 64 iPKPc 43 05.20 -0.6
 SSE 149.73 328 PKP 43 10.50 4.2X
 Z 20s 7.40um 6.5MsZ
 N 18s 2.10um
 E 18s 3.60um
 sPKP 43 26.00
 ePKS 46 36.00
 PP 46 40.00
 SS 05 06.00
 SSE 149.73 328 PKP 43 05.00 -1.3
 Z 20s 7.40um 6.5MsZ
 N 18s 2.10um
 E 18s 3.60um
 e 43 10.50
 sPKP 43 26.00
 ePKS 46 36.00
 PP 46 40.00
 LZH 150.08 358 ePKPc 43 06.91 0.0
 6.0s 1070.00nm
 Z 25s 7.78um 6.4MsZ
 ic 43 12.04
 ec 43 14.61
 sPKP 43 22.00
 PP 46 42.00
 SKS 50 10.00
 LZH 150.08 358 PKP 43 12.50 5.5X
 6.0s 1.07nm 6.4MsZ
 Z 25s 7.78um
 E 19s 5.48um
 pPKP 43 18.00
 sPKP 43 22.00
 i 44 22.00
 PP 46 42.00
 PKS 46 45.00
 SKS 50 10.00
 SKKS 53 18.00
 i 56 54.00
 SS 05 48.00
 NJ2 150.12 332 PKPd 43 05.00 -1.9
 Z 24s 4.20um 6.2MsZ
 N 19s 3.70um
 E 17s 2.40um
 pPKP 43 11.20
 PP 46 46.00
 SS 05 55.00
 XAN 151.58 349 PKP 43 08.30 -0.8
 N 21s 10.80um
 E 21s 2.20um
 SS 06 08.00
 GKN 152.13 36 PKP 43 09.24 -1.0
 KKN 152.67 36 PKP 43 10.20 -0.9
 DMN 152.70 36 PKP 43 10.44 -0.7
 PKI 152.91 36 PKP 43 10.36 -1.2
 GUN 152.92 35 PKP 43 10.68 -0.9
 WHN 153.34 338 ePKPc 43 12.00 0.4
 Z 20s 4.10um 6.2MsZ
 N 21s 5.00um
 E 19s 3.10um
 pPKP 43 19.00
 e 43 32.00
 PP 47 01.00
 HYB 153.68 62 iPKPc 43 11.90 -0.6
 1.2s 71.40nm
 GBA 153.86 71 PKPd 43 13.30 0.6
 1.3s 64.60nm
 LSA 154.00 24 PKPc 43 12.70 -0.5
 N 16s 1.93um
 E 16s 2.03um
 e 43 31.00
 PP 47 07.00
 SS 06 43.00
 KOD 154.52 79 ePKP 43 15.00 1.0
 CD2 155.24 358 ePKP 43 14.00 -0.2
 Z 20s 4.24um 6.3MsZ
 E 19s 4.80um
 e 43 35.00
 PP 47 11.00

eSS 06 47.50
 QZH 155.91 323 PKPc 43 16.00 0.8
 Z 24s 10.10um 6.6MsZ
 E 24s 7.40um
 PP 47 20.00
 DAV 157.42 274 ePKP 43 17.00 -0.5
 GYA 159.37 350 iPKPc 43 19.50 0.0
 Z 35s 3.00um 5.9MsZ
 N 20s 5.50um
 E 20s 3.00um
 pPKP 43 29.00
 e 43 58.00
 PP 47 34.00
 BAG 159.82 302 ePKP 43 20.00 -0.3
 GZH 160.27 330 PKPc 43 21.00 0.6
 Z 24s 4.30um
 PP 47 38.00
 HKC 160.49 327 ePKP 43 26.00 5.4X
 KMI 161.02 0 ePKPc 43 21.83 0.4
 2.0s 70.00nm
 ePKPab44 03.21
 epP'ab44 08.18
 ePP 47 44.27
 QIZ 165.41 333 ePKP 43 18.00 -7.5X
 N 18s 2.50um
 E 20s 6.10um
 e 44 19.00
 PP 48 10.00
 BDT 168.24 18 ePKP 43 26.00 -1.6
 1.2s 52.70nm
 LOE 168.65 6 ePKP 43 28.00 0.1
 NST 170.06 15 ePKP 43 32.00 3.3X
 KHT 170.34 25 ePKP 43 28.50 -0.4
 PSI 174.85 130 ePKP 43 32.00 1.2
 IPM 177.66 128 ePKPc 43 28.90 -2.4X
 1.4s 105.90nm
 e 45 18.00
 S.D. = 1.0 on 356 of 410 obs.
 & APR 04, 1991 15h 38m 18.83s
 56.485 N 156.388 W
 DEPTH = 24.6km
 ALASKA PENINSULA (12)
 <PAL>.
 SDN 2.58 245 iPc 38 58.40 -1.5
 PDB 3.51 18 eP 39 13.60 0.5
 PMR 6.34 33 eP 39 51.80 -1.3
 TTA 6.47 2 eP 39 53.00 -2.0
 TOA 7.68 39 eP 40 10.50 -1.4
 5 obs. associated
 APR 04, 1991 16h 08m 18.50±0.18s
 5.999 S ± 3.3km 77.083 W ± 4.7km
 DEPTH = 28.7km (3 depth phases)
 5.2mb (33 abs.) (111)
 NORTHERN PERU
 PT10 6.04 179 iPc 09 48.20 -0.2
 iS 11 02.10
 HUA 6.25 164 iPc 09 52.50 0.8
 i 10 01.00
 iS 11 38.50
 ZOBO 13.46 140 P 11 27.00 -3.8X
 LPB 13.68 141 P 11 31.00 -2.5
 CNCB 13.96 141 P 11 35.40 -1.9
 CCH 15.57 138 eP 12 01.00 2.9
 SDV 16.12 24 eP 12 08.30 3.2X
 SIV 18.57 124 P 12 33.40 -2.2
 ANT 18.74 161 e(P) 12 36.50 -1.0
 GUAN 19.52 36 iP 12 48.20 1.2
 TPP 22.47 44 eP 13 19.08 2.0
 TCE 22.54 43 eP 13 18.57 0.8
 TRN 22.74 43 eP 13 20.66 1.0
 MGP 25.81 22 P 13 50.70 1.5
 PORP 26.03 23 P 13 52.00 0.8
 SJG 26.27 24 P 13 53.70 0.2
 CPD 26.30 25 P 13 53.90 0.1
 BBL 26.38 36 eP 13 52.00 -2.6
 LPR 26.57 24 P 13 55.30 -0.9
 PAG 26.67 35 eP 13 54.00 -3.3X
 SEG 27.07 34 eP 14 00.00 -0.8
 DEC 27.25 35 eP 14 00.00 -2.5
 ROCH 27.43 169 eP 14 04.50 0.3
 PEL 27.66 168 iPc 14 06.10 0.0
 1.0s 10.00nm 4.5mb
 MDZ 27.83 165 i(P) 14 09.50 1.9

28.10 169 eP			14 11.00 0.9			MAF 87.17 43 eP			21 03.60 0.2			S.D. = 1.4 on 14 of 15 obs.		
PCH 28.15 168 eP			14 11.00 0.4			FBA 87.35 336 eP			21 04.30 0.4			* APR 04, 1991 16h 41m 09.39± 1.19s		
LNV 28.31 170 eP			14 11.50 -0.4			1.3s 31.30nm			5.4mb			8.708 S ±13.1km 120.543 E ± 6.8km		
PPD 29.57 125 eP			14 23.10 -0.3			AVF 87.81 43 eP			21 06.50 0.1			DEPTH = 93.9 ± 15.7 km		
BAO 30.10 111 e(P)			14 24.00 -4.3X			0.9s 13.10nm			5.2mb			4.7mb (3 obs.)		
VAO 33.58 123 (P)			14 57.00 -1.7			SMF 88.12 43 eP			21 08.00 0.1			FLORES ISLAND REGION (286)		
BMA 35.83 121 eP			15 16.70 -1.2			LOR 88.24 42 eP			21 08.20 -0.3					
SGS 39.11 355 P			15 47.30 2.1			0.7s 7.70nm			5.1mb					
PRM 40.18 353 P			15 54.40 0.4			PDB 88.70 330 P			21 10.00 -0.4			TRT 7.89 277 ePc 43 03.20 -0.1		
JSC 40.25 355 P			15 54.60 0.0			DAG 88.89 11 iPd			21 11.60 0.5			KNA 10.65 132 eP 43 40.40 -0.4		
GBTN 41.98 351 P			16 08.60 -0.2			0.8s 21.64nm			5.5mb			0.3s 18.00nm 45 29.00 5.5mb X		
BLA 43.10 356 P			16 18.20 0.2			LRG 89.34 46 eP			21 14.40 0.6			eS 45 29.00		
OLY 43.44 343 P			16 19.60 -1.2			LMR 89.43 46 eP			21 14.90 0.7			MTN 11.18 112 eP 43 48.00 0.2		
CVL 43.77 358 P			16 24.00 0.6			0.9s 11.45nm			5.2mb			0.3s 311.00nm 45 44.00 6.6mb X		
NA2 43.90 359 P			16 25.00 0.6			FRF 89.56 46 eP			21 15.50 0.7			eS 45 44.00		
TUL 45.24 338 iPc			16 35.10 -0.2			0.9s 19.65nm			5.4mb			MBL 12.40 183 iPd 44 04.20 0.3		
1.0s 30.60nm			5.2mb			SVW 89.70 332 eP			21 15.00 -0.2			0.2s 12.00nm 46 10.00 5.3mb X		
FVM 45.49 345 P			16 36.00 -1.2			LPL 89.91 44 eP			21 17.80 1.1			eS 46 10.00		
ALO 49.24 328 ePc			17 07.10 0.2			0.8s 5.35nm			4.8mb			MEKA 17.91 186 eP 45 14.00 0.1		
1.0s 15.00nm			5.0mb			LPG 89.92 44 eP			21 17.90 1.0			0.3s 14.00nm 48 22.00 4.7mb		
e			17 15.00 26km			0.8s 8.75nm			5.1mb			eS 48 22.00		
ANMO 49.25 328 P			17 07.60 0.7			IMA 90.04 337 eP			21 17.50 0.7			WARB 18.32 162 iPd 45 19.10 0.1		
1.0s 60.00nm			5.6mb			1.5s 25.40nm			5.2mb			0.4s 13.00nm 48 33.00 4.5mb		
pP			17 16.50 30km			CDF 90.70 42 eP			21 20.30 0.2			eS 48 33.00		
BAR 53.80 318 eP			17 41.00 -0.1			0.8s 10.75nm			5.2mb			ASPA 19.62 141 iPc 45 32.70 -0.3		
TPC 54.29 320 eP			17 33.00 -11.7X			1.0s 9.00nm			27 41.80 -1.1			0.4s 58.40nm 49 02.20 5.3mb		
MSU 54.97 327 P			17 49.80 0.0			WMQ 140.02 17 ePKP			27 47.50 1.0			S 49 02.20		
pP			17 59.00 30km			HHC 144.45 349 ePKP			27 52.60 -1.7			OIS 21.85 125 eP 45 56.40 0.7		
RVR 55.07 319 eP			17 51.00 0.6			BTO 144.97 351 PKP			27 54.40 -0.8			eS 49 48.60		
RSSD 55.49 337 P			17 53.00 -0.5			MTN 146.29 236 ePKP			27 58.80 0.8			BAL 22.08 189 iPc 45 57.70 -0.1		
1.0s 14.91nm			5.0mb			KNA 146.50 230 ePKP			27 59.40 1.2			KLB 22.92 186 iPd 46 06.00 0.0		
GSC 55.53 321 eP			17 54.00 0.2			NDI 146.83 44 ePKP			27 59.00 0.5			FORR 23.13 163 eP 46 07.00 -1.0		
SBB 55.79 319 eP			17 54.00 -1.7			TIY 147.26 346 PKPd			28 01.20 2.2X			MUN 23.50 189 eP 46 11.50 -0.1		
DAU 55.86 329 P			17 56.00 -0.3			MBL 148.31 211 iPKPd			28 04.10 3.0X			eS 50 33.00		
CLC 56.35 321 eP			17 59.00 -0.7			POO 149.05 64 ePKP			28 06.50 4.2X			NWA0 24.29 187 eP 46 20.00 0.7		
DUG 56.52 328 P			18 01.00 0.1			SSE 149.72 328 PKPd			28 07.00 4.1X			STK 30.23 143 iPc 47 32.80 19.4X		
BW06 56.80 332 P			18 01.40 -1.6			LZH 150.04 358 iPKPc			28 09.00 5.5X			0.4s 6.30nm 47 32.80</		

04d 16h

IMA 3.06 339 eP 59 10.78 -1.2
34 obs. associated

* APR 04, 1991 17h 56m 15.77± 2.01s
7.440 S ±11.5km 107.450 E ±12.1km
DEPTH = 77.9 ± 18.4 km
4.9mb (7 obs.)

JAVA (277)

TRT 5.15 93 ePc 57 32.10 0.1
IPM 13.55 332 ePc 59 28.70 2.6
MBL 18.15 140 eP 00 23.00 -1.2
KHT 23.76 338 eP 01 21.80 -0.3
WARB 26.10 138 eP 01 43.50 -0.7
ASPA 30.07 125 iPd 02 19.40 -0.6
0.5s 7.90nm 4.7mb

OIS 33.73 116 iPc 02 52.50 0.5
KOD 34.64 300 eP 03 00.00 -0.2
GBA 36.40 305 Pd 03 15.50 0.8
0.8s 13.30nm 4.9mb
HYB 37.75 311 eP 03 25.70 -0.4
STK 40.02 132 iPc 04 05.90 21.1X
0.4s 61.60nm

LSA 40.12 338 eP 03 44.80 -1.3
NJ2 40.75 15 eP 03 53.00 2.3
PKI 40.82 329 P 03 49.68 -2.1
GUN 40.86 330 P 03 50.44 -1.7
0.4s 9.00nm 5.0mb
DMN 41.00 329 P 03 50.92 -2.3
KKN 41.06 329 P 03 51.58 -2.0
XAN 41.28 2 P 03 55.40 0.4
GKN 41.56 329 P 03 55.78 -1.9
0.3s 7.00nm 5.0mb

CMS 43.03 129 iPc 04 10.80 1.4
0.9s 14.00nm 4.8mb
TIY 45.16 6 Pd 04 27.80 1.3
GTA 47.15 352 eP 04 43.00 0.7
PP 04 56.20

BRS 47.25 121 iPd 04 35.20 -8.0X
BTO 47.86 3 eP 04 48.20 0.4
BJI 47.92 9 eP 04 49.00 0.8
VSG 51.71 96 eP 05 17.00 -0.6
CN2 53.55 16 eP 05 29.40 -1.2
PcP 06 35.00

QUE 53.94 316 eP 05 33.10 -1.0
WMO 54.07 342 eP 05 34.60 0.0
YAK 71.37 11 eP 07 26.80 -2.2
MBH 78.77 302 e(P) 08 13.00 1.0
PRNI 78.82 303 iPc 08 13.80 1.6
HRI 79.02 306 e(P) 08 15.00 1.7
OBN 85.31 327 iP 08 41.00 -4.2X
0.9s *****nm 8.5mb X

KAF 92.39 332 iP 09 19.40 0.8
0.7s 6.00nm 5.1mb
NUR 92.88 331 eP 09 21.90 1.1
0.5s 4.40nm 5.1mb

SOD 93.29 338 iP 09 23.30 0.7
YKA 117.12 20 ePKP 14 53.10 0.0
0.6s 1.20nm

ALO 138.55 44 e(PKP) 15 32.00 -3.1X
TUL 144.57 34 iPKPc 15 44.90 -0.4
0.6s 19.30nm

SIV 154.09 206 PKP 16 02.20 1.7
ZOBO 156.04 191 ePKP 16 17.00 13.1X
S.D. = 1.4 on 37 of 42 obs.

APR 04, 1991 18h 24m 52.93± 0.63s
28.309 S ± 4.9km 70.867 W ±12.4km
DEPTH = 105.5 ± 18.5 km
CENTRAL CHILE (136)

RTS 2.22 147 iPc 25 30.00 0.9
RTCB 3.64 151 iPc 25 48.80 0.4
eS 26 15.30
RTLL 3.66 146 iPd 25 48.00 -0.6
ZON 3.74 150 eP 25 48.70 -1.0
CFA 4.00 146 eP 25 52.70 -0.5
JACH 4.36 177 iPd 25 59.50 1.2
ANT 4.60 5 iPc 26 02.40 1.0
ROCH 4.65 181 iPd 26 02.50 0.2
PEL 4.82 178 iPc 26 04.50 0.0
MDZ 4.88 160 iP 25 59.10 -6.2X
iS 26 41.50

SAN 5.13 178 eP 26 09.00 0.2
LCCH 5.19 187 iPd 26 09.50 0.0
PCH 5.30 177 eP 26 11.50 0.3
TACH 5.33 181 iPd 26 11.50 0.0
LNV 5.65 185 iPd 26 14.60 -1.3
CNCB 11.75 14 P 27 39.20 0.3
ARE 11.80 357 eP 27 46.00 6.6X
LPB 12.00 13 eP 27 40.00 -2.0
ZOBO 12.25 13 P 27 45.90 0.4
i 27 50.80

SIV 15.24 38 P 28 19.00 -4.7X
VAO 22.17 82 (P) 29 42.00 0.8
ASPA 123.08 207 ePKP 43 42.40 3.4X
1.5s 3.40nm
YAK 143.64 344 iPKP 44 18.40 2.2X
GBA 147.11 110 PKPc 44 25.90 2.5X
0.6s 3.70nm
HYB 149.89 104 ePKP 44 36.00 8.3X
S.D. = 0.9 on 18 of 25 obs.

APR 04, 1991 18h 27m 41.52± 0.52s
37.056 N ± 7.6km 73.393 E ± 9.2km
DEPTH = 33.0km (normol)
4.0mb (4 obs.)

TAJIK SSR (715)

QUE 8.70 220 eP 29 46.60 -1.7
NDI 8.95 158 eP 29 55.00 3.6X
0.5s 21.13nm 5.6mb X
GKN 13.08 130 P 30 47.50 -0.3
0.4s 41.00nm 5.8mb X

KKN 13.63 129 P 30 54.48 -0.6
0.5s 33.00nm 5.4mb X
DMN 13.66 130 P 30 56.10 0.7
PKI 13.87 130 P 30 57.92 -0.4
0.6s 34.00nm 5.3mb X

GUN 13.92 127 P 30 58.74 -0.3
HYB 20.09 166 eP 32 15.50 0.3
GBA 23.63 170 P 32 52.90 2.3
0.7s 7.90nm 4.3mb
LZH 24.43 83 eP 33 28.00 29.6X
1.5s 14.00nm

Z 10s 0.32um 4.1mszX
sP 33 39.50
i 34 12.00

YAK 42.41 36 eP 35 33.80 -0.4
HFS 43.82 321 eP 35 46.40 0.7
0.5s 1.70nm 4.1mb
NB2 45.10 323 P 35 56.90 0.8
0.7s 0.60nm 3.6mb

MBC 66.68 3 eP 38 30.50 -0.1
INK 73.04 10 eP 39 09.00 -0.5
YKA 80.59 4 eP 39 51.10 -0.5
0.8s 1.30nm 4.0mb
S.D. = 1.0 on 14 of 16 obs.

* APR 04, 1991 18h 36m 52.31± 2.72s
31.483 S ±10.2km 68.819 W ±21.7km
DEPTH = 100.4 ± 29.8 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.02 102 iPd 37 06.90 0.1
ZON 0.14 118 iPd 37 06.70 -0.2
eS 37 18.70
RTLL 0.34 63 iPc 37 07.00 -0.4
CFA 0.51 104 eP 37 08.10 -0.4
eS 37 20.50

MDZ 1.40 181 iP 37 18.70 0.9
iS 37 37.80
RTRS 1.42 337 iPc 37 18.50 0.6
S 37 38.00

JACH 1.92 231 eP 37 52.70 28.2X
PEL 2.29 223 iPd 37 30.00 0.7
iS 37 59.00
ROCH 2.38 231 eP 37 31.00 0.3
eS 38 00.50

PCH 2.57 213 iPd 37 34.00 0.9
iS 38 08.50
TACH 2.81 219 iP 37 36.50 0.3
iS 38 11.60
LCCH 3.06 229 eP 37 38.50 -1.1
LNV 3.29 221 iP 37 41.10 -1.7
i 38 13.50

S.D. = 1.0 on 12 of 13 obs.

& APR 04, 1991 19h 00m 00.00s
37.296 N 116.313 W

DEPTH = 0.0km
5.6mb (70 obs.) 4.2MsZ (2 obs.)
SOUTHERN NEVADA (41)
<DOE>. ML 5.4 (BRK). 37' 17'
45.85" N., 116' 18' 46.45" W.,
Surface Elev. 2145 m., Depth of
Burial 600 m., Shot Time
190000.000. "BEXAR," Nevada Test
Site (Dept. of Energy).

TNP 1.06 318 P 00 20.10 -1.0
CLC 1.80 215 iPc 00 32.30 -0.3
GSC 2.03 191 iPc 00 35.40 -0.6
FRI 2.73 265 iPc 00 45.40 -0.5
SBB 2.88 206 iPc 00 47.30 -0.8
TPC 3.19 176 iPc 00 51.60 -0.9
CMB 3.31 284 iPc 00 53.50 -0.8
MWC 3.38 205 iPc 00 54.90 -0.4
PEC 3.47 192 iPc 00 56.20 -0.2
PRI 3.68 253 ePc 00 58.60 -0.9
LLA 3.77 261 ePc 00 59.20 -1.5
PLM 3.96 187 iPc 01 03.20 -0.3

SAO 4.14 264 iP 01 04.80 -1.1
PRS 4.17 258 eP 01 05.10 -1.2
MHC 4.25 272 ePc 01 07.00 -0.6
GCC 4.55 268 ePc 01 15.10 3.4
ORV 4.66 301 ePc 01 11.80 -1.5
BKS 4.74 279 iP 01 13.10 -1.4
eS 01 31.00

BRK 4.76 279 eP 01 10.50 -4.2
ZSP 4.76 280 ePc 01 14.60 -0.2
PCC 4.84 274 ePc 01 14.20 -1.6
MIN 5.13 308 iPd 01 19.50 -0.7
WDC 5.86 306 ePc 01 28.50 -1.7
FHC 6.92 303 eP 01 45.30 0.0
BW06 7.54 41 eP 01 53.70 -0.4

ANMO 8.31 103 eP 02 03.00 -1.9
ALO 8.31 103 eP 02 02.50 -2.4
LRM 9.00 18 eP 02 15.50 1.1
GLD 9.03 71 eP 02 14.90 0.0
RSSD 11.54 50 eP 02 46.00 -3.3
PNT 12.25 350 ePd 02 59.00 0.3

1.1s 168.00nm 6.3mb
PGC 12.49 338 eP 03 07.00 5.3
SES 13.63 14 P 03 16.00 -1.0
2.5s 9.00nm 4.3mb X

EDM 16.06 6 iPd 03 47.80 -0.9
BIX 16.48 88 iP 03 54.50 0.3
TUL 16.54 89 ePc 03 53.30 -1.6
1.6s 330.90nm 5.2mb
Z 20s 0.39um
N 19s 0.13um
E 20s 0.29um

e 05 12.30
LR 09 09.30
VNM 17.57 126 (P) 04 11.50 3.6
FFC 20.00 25 iPc 04 35.00 -1.9
0.7s 282.00nm 5.7mb

FVM 20.50 80 eP 04 41.00 -1.2
1.0s 265.00nm 5.5mb
CGX 20.81 144 (P) 04 44.00 -1.8
MRX 21.94 139 (P) 05 00.00 3.0
PPM 23.86 135 (P) 05 18.00 1.5
III 23.95 137 (P) 05 18.00 1.0

IIIT 24.08 134 (P) 05 20.50 2.2
LVVM 24.63 130 (P) 05 23.50 0.2
IISM 24.64 133 (P) 05 25.50 2.0
RSCP 24.74 85 eP 05 23.50 -0.9
ACX 25.00 140 (P) 05 28.00 1.1
YKA 25.25 2 eP 05 26.60 -2.3
1.0s 34.70nm 5.0mb

OXX 26.53 134 (P) 05 43.00 1.5
CLE 27.09 70 iP 05 44.60 -1.6
BLA 28.47 79 eP 05 58.00 -0.8
2.0s 63.29nm 5.1mb

JSC 28.50 85 eP 05 57.50 -1.5
TOA 30.94 333 eP 06 21.70 1.1
GAC 31.43 61 ePc 06 22.90 -2.1
0.5s 13.00nm 5.1mb

PMR 31.75 330 eP 06 28.30 0.7
1.2s 63.30nm 5.4mb
INK 32.51 348 ePc 06 33.00 -1.2
FBA 33.30 336 eP 06 41.10 0.0
1.2s 81.90nm 5.5mb

SVW 34.20 327 ePc 06 48.70 -0.3
IMA 35.96 335 ePc 07 04.00 -0.1
1.4s 75.30nm 5.3mb

SCH	37.66	46 eP	07 16.00	-2.4	BGF	80.30	38 iPc	12 12.80	-1.4	FIN	84.59	37 P	12 34.51	-2.0
FRB	38.85	32 ePc	07 26.90	-1.3		1.4s	113.25nm		5.6mb	IMI	84.67	37 P	12 33.69	-3.2
	0.6s	53.00nm		5.4mb	AVF	80.38	37 iPc	12 13.10	-1.5	IFR	84.79	51 iPd	12 37.00	-0.8
MBC	39.07	359 eP	07 29.00	-0.9		1.2s	55.05nm		5.4mb	KRA	84.84	27 eP	12 36.60	-0.9
	0.9s	19.00nm		4.7mb	LFF	80.38	40 iPc	12 13.50	-1.1		1.3s	96.00nm		5.9mb
ANM	39.66	329 ePc	07 35.70	0.7		1.3s	122.75nm		5.7mb	OBN	85.09	15 eP	12 37.30	-1.4
ADK	44.12	309 eP	08 10.70	-0.9	MAF	80.40	38 iPc	12 13.60	-1.1		1.1s	*****nm		8.5mb X
	1.3s	195.80nm		5.8mb		1.5s	107.05nm		5.6mb	TIO	85.13	55 iP	12 38.90	-0.7
GDH	46.07	26 iPd	08 26.20	-0.8	RJF	80.52	39 iPc	12 13.80	-1.6	SPC	85.67	27 eP	12 40.70	-1.3
	1.3s	146.15nm		5.9mb		1.1s	46.15nm		5.4mb	VOY	85.75	32 e(P)	12 41.00	-1.3
		e	10 16.00		VITF	80.59	35 P	12 14.47	-1.1	LJU	86.01	32 eP	12 43.40	-0.1
DAG	55.74	16 iPd	09 36.70	-3.5	SMF	80.72	37 iPc	12 14.80	-1.6	SRO	86.10	29 eP	12 43.00	-0.8
	0.7s	15.75nm		5.2mb		1.2s	71.40nm		5.5mb	PGF	86.22	37 eP	12 43.40	-1.4
TPT	59.77	216 iP	10 08.30	-0.9	GWf	80.76	34 P	12 16.22	-0.4		1.0s	22.00nm		5.3mb
	1.2s	35.00nm		5.4mb	LPO	80.79	40 iPc	12 15.80	-1.0	FIR	86.34	35 eP	12 37.00	-8.1
RUV	59.84	215 iP	10 09.00	-0.7		1.4s	87.15nm		5.6mb	VBY	86.74	32 e(P)	12 44.00	-3.1
	1.2s	100.00nm		5.8mb	HAU	80.91	35 iPc	12 16.40	-1.0	VAO	88.58	120 (P)	12 56.00	-0.2
PMO	59.92	216 iP	10 09.20	-1.0		1.2s	77.35nm		5.6mb	HNR	90.71	259 eP	13 06.00	-0.3
	1.2s	30.00nm		5.3mb	Z	19s	0.15um		4.4Msz	HHC	90.73	326 P	13 06.00	-0.2
VAH	60.00	215 iP	10 10.00	-0.8	CDF	81.03	34 P	12 16.87	-1.3		1.4s	100.00nm		5.9mb
	1.2s	75.00nm		5.7mb	CAF	81.06	39 iPc	12 17.10	-1.2	BTO	91.62	327 eP	13 09.00	-1.3
PPN	62.83	216 iP	10 28.80	-1.1		1.2s	66.95nm		5.6mb	TIA	91.68	319 eP	13 09.50	-1.1
	1.2s	60.00nm		5.7mb	WLS	81.06	34 P	12 17.08	-1.2	SKO	92.19	30 eP	13 10.00	-2.8
PPT	62.93	216 iP	10 29.60	-0.9	ECH	81.12	34 P	12 17.93	-0.6	OHR	92.65	31 eP	13 12.50	-2.5
	1.2s	135.00nm		6.1mb	BTH	81.14	42 Pc	12 17.60	-1.1	TIY	92.84	323 eP	13 16.20	0.2
AFR	63.00	216 iP	10 30.00	-1.0	MOX	81.19	31 eP	12 17.90	-0.9	VAY	93.19	30 eP	13 16.00	-1.4
	1.2s	100.00nm		5.9mb		1.3s	41.00nm		5.3mb	SSE	93.30	314 Pc	13 18.00	0.0
PAE	63.01	216 iP	10 30.20	-0.9	TOL	81.21	46 iPc	12 18.50	-0.7		1.0s	25.00nm		5.6mb
	1.2s	90.00nm		5.9mb		1.1s	88.61nm		5.7mb	DZM	93.56	245 iPc	13 20.00	0.7
YAK	67.72	332 iP	10 58.80	-2.1	CLL	81.23	29 iPc	12 17.60	-1.4	NJ2	93.91	316 eP	13 19.50	-1.4
KEV	69.94	13 eP	11 09.00	-5.6		1.5s	51.00nm		5.4mb	LKO	100.31	70 Pdifftc	13 48.28	-2.0
ZOBO	69.96	130 P	11 14.00	-2.1	BSF	81.24	35 P	12 17.93	-1.3		0.9s	17.50nm		5.6mb
LPB	70.18	131 P	11 21.00	3.8	TSRJ	81.30	308 eP	12 18.90	-0.7	STK	117.34	249 ePKP	19 05.20	16.1
CNCB	70.46	131 P	11 17.00	-2.1	MOF	81.38	35 P	12 18.45	-1.5		1.7s	2.70nm		
KUSJ	71.36	310 eP	11 20.40	-3.2	EPF	81.49	42 iPc	12 19.40	-1.2			e	20 17.10	
EKA	71.58	34 P	11 23.00	-1.7		1.2s	38.70nm		5.4mb	ASPA	119.23	261 iPKPd	18 49.80	-3.2
	1.4s	50.70nm		5.5mb	LOMF	81.61	35 P	12 20.65	-0.5		0.9s	7.40nm		
SOD	71.94	14 iP	11 24.30	-2.4	FEL	81.76	34 P	12 20.48	-1.5	WIN	137.46	83 ePKP	19 07.00	-21.1
CCH	72.02	130 P	11 27.00	-1.2	GRF	81.76	31 iPc	12 21.60	-0.2	BUL	145.06	71 iPKPd	19 38.30	-3.2
ASAJ	72.03	312 eP	11 26.30	-1.3		1.3s	57.00nm		5.5mb	PRY	147.80	82 iPKPc	19 53.00	7.2
NB2	73.10	24 P	11 31.40	-2.3	Z	20s	0.09um		4.1Msz		1.0s	45.00nm		
	0.7s	12.20nm		5.1mb	CN2	81.78	320 Pd	12 20.60	-1.4	SLR	147.87	79 iPKPc	19 46.00	0.0
SIV	74.21	125 iPc	11 38.80	-1.9		1.2s	20.00nm		5.1mb		1.0s	49.00nm		
HFS	74.59	23 iPc	11 40.00	-2.3	BBS	81.84	35 P	12 21.08	-1.2	MAW	149.64	179 iPKPd	19 51.20	4.0
	0.6s	40.20nm		5.6mb	BRG	81.94	29 iP	12 21.10	-1.6		1.0s	39.00nm		
Z	17s	0.11um		4.2MszX		1.0s	30.00nm		5.4mb			205 obs. associated		
		LR	37 41.00		SLE	82.05	34 ePd	12 22.70	-0.7					
OFUJ	75.55	308 eP	11 47.00	-1.2	ZLA	82.22	34 ePd	12 24.00	-0.3					
MUD	75.82	28 eP	11 48.30	-1.1	EMS	82.60	36 ePd	12 26.30	-0.2					
	1.5s	78.00nm		5.6mb	DIX	82.82	36 ePd	12 27.60	-0.1					
UPP	76.02	22 iP	11 48.00	-2.4	KSP	82.86	28 iP	12 26.70	-0.8					
YAMJ	77.11	308 eP	11 55.80	-1.2	LPL	82.92	36 iPc	12 27.90	-0.3					
FLN	77.15	38 iPc	11 56.00	-1.0		1.0s	26.00nm		5.4mb					
	1.3s	126.35nm		5.9mb	LPG	82.94	36 iPc	12 28.00	-0.4	LCI	0.79	331 P	03 08.20	0.0
GRR	77.22	38 iPc	11 56.40	-0.9		1.2s	56.55nm		5.7mb			eSg	03 23.60	
	1.2s	80.35nm		5.7mb	LLS	82.95	34 ePd	12 28.20	-0.1	KEK	1.04	86 ePg	03 10.90	-0.9
LPF	77.37	38 iPc	11 57.20	-1.0	FUR	82.96	32 eP	12 27.60	-0.5	IGT	1.45	94 ePc	03 18.84	1.1
	1.5s	161.90nm		5.9mb		1.2s	72.00nm		5.8mb			eS	03 41.32	
NUR	77.42	19 iP	11 55.40	-2.8	MMK	83.10	35 ePd	12 29.40	0.3	BRT	1.56	322 P	03 21.40	2.1
	0.6s	8.60nm		5.1mb	LSL	83.16	36 P	12 29.28	-0.2			eSg	03 43.60	
LDF	77.44	38 iPc	11 57.50	-1.1	RRL	83.38	37 P	12 30.41	-0.2	ORI	1.60	286 P	03 20.20	0.3
	1.3s	111.90nm		5.8mb	RSP	83.44	36 P	12 30.31	-0.4			eSn	03 45.70	
UCC	77.99	34 P	12 01.40	-0.1	VDL	83.46	34 ePd	12 31.10	0.2	TDS	1.64	271 P	03 21.80	1.4
SNF	78.16	34 iPc	12 01.21	-1.2	AVE	83.49	53 iP	12 30.00	-1.1	BAI	1.91	321 P	03 30.00	5.7X
WTS	78.18	32 eP	12 02.00	-0.6	OSS	83.61	34 ePd	12 31.80	0.2			eSn	03 58.00	
	0.9s	29.00nm		5.4mb	BHB	83.67	37 P	12 31.23	-0.6	VLS	2.21	131 ePn	03 31.40	2.7X
NIIJ	78.33	308 eP	12 02.60	-1.1	CDR	83.81	38 ePd	12 31.60	-0.9	MGR	2.29	283 P	03 29.60	-0.1
DOU	78.60	34 P	12 04.00	-0.9	PZZ	83.84	37 P	12 32.46	-0.4	OHR	2.31	50 iPn	03 31.10	1.0
	1.1s	103.80nm		5.8mb	BHG	83.99	32 eP	12 32.60	-0.7			Lg	04 28.00	
ENN	78.70	33 iP	12 04.50	-0.9		1.3s	46.00nm		5.5mb	FNA	2.51	62 ePc	03 34.64	1.7
	1.0s	56.00nm		5.6mb	IRK	84.03	336 eP	12 32.00	-1.5	KZN	2.63	74 ePb	03 38.90	4.3X
MFF	78.78	39 iPc	12 05.20	-0.8		1.4s	*****nm		8.4mb X	BDV	2.65	6 ePn	03 35.00	0.1
	1.5s	120.15nm		5.7mb			e	12 33.20				eSn	04 06.50	
MEM	78.85	33 iP	12 05.57	-0.7	STV	84.15	37 P	12 32.56	-1.7	ATN	2.77	239 P	03 33.00	-3.5X
CHJJ	79.07	307 eP	12 06.70	-1.1	SNY	84.15	319 Pc	12 34.00	-0.2	HCY	2.80	1 ePn	03 36.90	0.0
MAT	79.26	308 iPc	12 07.30	-1.5		1.6s	100.00nm		5.8mb			eSn	04 11.40	
	1.0s	15.00nm		4.9mb	ENR	84.20	37 P	12 32.56	-2.0	TTG	2.85	12 ePn	03 38.00	0.4
MTMJ	79.49	308 eP	12 09.00	-1.2	LRG	84.26	38 eP	12 34.10	-0.7			eSn	04 12.50	
LSF	79.87	39 eP	12 10.40	-1.5		1.5s	94.00nm		5.8mb	AGG	3.07	100 iPc	03 40.72	-0.1
ABH	80.06	33 eP	12 12.86	0.0	FRF	84.32	38 eP	12 34.20	-0.9	LIT	3.14	80 ePd	03 42.44	0.7
IIDJ	80.11	307 eP	12 12.50	-1.0		1.3s	104.70nm		5.9mb			eS	04 21.08	
TCF	80.18	38 iPc	12 12.20	-1.4	ROB	84.37	37 P	12 33.90	-1.5	PVY	3.16	21 ePn	03 44.00	1.8
	1.2s	49.10nm		5.3mb	LMR	84.42	38 eP	12 34.70	-0.9			eSn	04 23.00	
SSF	80.26	37 eP	12 12.70	-1.3		1.1s	73.25nm		5.8mb	SKO	3.24	43 iPn	03 43.20	-0.1
	1.2s	74.40nm		5.5mb	SBF	84.48	37 eP	12 34.70	-1.3	BRY	3.26	1 ePn	03 43.50	0.0
LOR	80.28	37 iPc	12 13.00	-1.1		1.2s	59.50nm		5.7mb			eSn	04 21.50	
	1.3s	169.25nm		5.8mb	PCP	84.50	36 P	12 34.62	-1.4	GRG	3.29	65 ePd	03 44.36	0.4

04d 19h

MNO 3.40 241 P 03 44.90 -0.9
 VAY 3.55 61 ePn 03 47.30 -0.4
 KNT 3.71 64 ePc 03 49.84 -0.1
 HVAR 3.84 337 ePn 03 53.70 2.0
 iSn 04 32.50
 SOH 3.93 71 ePd 03 51.72 -1.3
 PAIG 4.03 84 ePd 03 53.52 -1.0
 SRS 4.19 68 ePc 03 56.44 -0.2
 VLI 4.58 128 ePn 04 02.10 -0.2
 VBY 6.32 339 e(Pn) 04 26.80 0.1
 eSn 05 37.00
 BZS 6.41 20 ePc 04 25.50 -2.5
 PTJ 6.52 344 iPd 04 28.40 -1.2
 CEY 6.78 335 e(Pn) 04 32.40 -0.8
 e 05 50.50
 VOY 7.21 334 ePn 04 37.90 -1.4
 eSn 05 58.70
 CTI 8.12 324 P 04 50.00 -2.1
 S.D. = 1.2 on 32 of 36 obs.

& APR 04, 1991 19h 06m 35.04s
 60.261 N 152.503 W
 DEPTH = 102.1km
 SOUTHERN ALASKA (2)
 <AEIC>.

RED 0.21 320 iPc 06 49.05 0.8
 iS 07 00.32
 RSO 0.24 328 iPc 06 49.40 0.9
 RS2 0.24 328 iPc 06 49.43 0.9
 REF 0.25 337 iPc 06 49.51 1.0
 RDW 0.27 326 iPc 06 49.40 0.8
 RDN 0.28 333 iPc 06 49.45 -0.7
 RDT 0.32 9 iPc 06 49.63 -0.6
 eS 07 01.13
 DFR 0.34 345 iPc 06 49.62 -0.8
 NCT 0.37 325 iPc 06 49.65 -0.9
 >NNL 0.64 109 iPc 06 52.61 0.2
 HOM 0.74 144 ePd 06 53.13 -0.1
 eS 07 06.04
 NKA 0.79 52 iPc 06 54.92 1.2
 XLV 0.90 154 ePd 06 54.02 -0.8
 eS 07 09.40
 CKL 0.94 5 ePc 06 54.62 -0.8
 SPU 0.95 13 iPc 06 54.59 -0.8
 eS 07 10.13
 BRLK 0.95 121 ePc 06 54.50 -0.9
 eS 07 09.94
 PDB 0.97 242 iPd 06 54.51 -1.1
 iS 07 09.61
 CNPM 0.98 139 iPd 06 55.04 -0.6
 eS 07 10.84
 AUE 1.01 206 ePd 06 55.08 -0.9
 BGL 1.01 3 iPc 06 55.49 -0.6
 AUH 1.02 208 ePc 06 55.41 -0.8
 CRP 1.02 9 iPc 06 55.71 -0.6
 AUI 1.04 207 ePc 06 55.67 -0.7
 eS 07 10.90
 NCG 1.16 8 iPc 06 56.96 -0.9
 SLKM 1.16 77 eP 06 56.96 -0.8
 MCNL 1.42 222 iPc 06 59.48 -1.4
 eS 07 18.24
 CDD 1.46 204 ePc 06 59.83 -1.4
 SUA 1.48 35 iPc 07 01.18 -0.5
 SEW 1.53 95 ePc 07 00.85 -1.3
 SYI 1.66 178 iPd 07 02.67 -1.1
 PMS 1.75 54 ePc 07 04.11 -0.9
 SVW 1.75 300 iPd 07 03.07 -2.0
 SKT 1.79 15 iPc 07 04.20 -1.3
 eS 07 27.42
 PWA 1.89 41 ePc 07 05.80 -1.0
 PLRM 2.12 49 ePc 07 07.84 -1.9
 KNK 2.29 58 iPc 07 10.18 -1.9
 eS 07 38.07
 GHO 2.31 47 iPc 07 10.58 -1.8
 LTI 2.34 93 ePc 07 10.51 -2.1
 KNIM 2.37 86 ePc 07 10.38 -2.8
 CUT 2.41 26 ePc 07 12.24 -1.3
 SCM 2.97 56 ePc 07 19.10 -2.2
 HUR 3.05 25 eP 07 21.54 -0.8
 VLZ 3.16 71 eP 07 21.05 -2.6
 TTA 3.16 329 eP 07 21.57 -2.3
 TRF 3.37 17 eP 07 24.91 -1.9
 KLU 3.45 66 ePc 07 25.44 -2.3
 TOA 3.58 56 ePc 07 27.83 -1.7
 RND 3.60 27 eP 07 27.72 -2.1
 MCK 3.87 24 eP 07 31.32 -2.2

SDG 4.05 53 eP 07 33.98 -1.9
 BWN 4.17 19 eP 07 36.10 -1.5
 PAX 4.32 48 ePc 07 37.74 -2.0
 GLB 4.41 71 ePc 07 37.93 -3.1
 NEA 4.62 19 eP 07 40.98 -2.7
 CROM 4.66 80 eP 07 42.55 -1.9
 WRH 4.70 24 ePc 07 42.57 -2.3
 DDM 4.72 39 ePc 07 44.60 -0.6
 TGL 4.81 80 eP 07 44.27 -2.2
 HDA 4.90 29 ePc 07 45.29 -2.3
 CCB 4.91 24 eP 07 44.91 -2.9
 RDS 5.01 22 eP 07 46.71 -2.4
 BALM 5.06 77 eP 07 47.56 -2.4
 MDM 5.11 21 ePc 07 48.08 -2.5
 FBA 5.14 23 eP 07 48.25 -2.7
 GLM 5.30 24 ePc 07 50.62 -2.6
 CTGM 5.55 78 ePc 07 55.17 -1.6
 66 obs. associated

* APR 04, 1991 20h 09m 04.59±0.87s
 6.071 S ± 7.6km 76.993 W ± 17.4km
 DEPTH = 46.9 ± 9.5 km
 4.2mb (3 obs.)

NORTHERN PERU (111)
 TUNG 4.84 343 P 10 16.70 -0.5
 VC1 5.58 345 eP 10 28.50 0.8
 NNA 5.88 179 iP 10 31.20 -0.3
 0.4s 35.59nm 5.2mb X
 eS 11 36.50
 HUA 6.15 165 ePd 10 36.80 1.1
 eS 11 50.00
 CAYA 6.19 351 eP 10 36.20 -0.1
 COTA 6.50 348 eP 10 44.60 3.9X
 ZOBO 13.35 140 P 12 13.00 -1.2
 Z 20s 0.47um
 S 16 36.00
 LR 18 00.00
 LPB 13.56 141 eP 12 30.00 13.1X
 CNCB 13.85 141 iPd 12 30.50 9.8X
 ANMO 49.35 328 eP 17 52.00 0.3
 1.1s 2.53nm 4.2mb
 LKO 72.81 78 P 20 31.16 0.3
 KIC 73.16 82 P 20 33.60 0.7
 YKA 74.17 343 eP 20 35.90 -1.9
 0.7s 1.00nm 3.9mb
 INK 83.89 342 eP 21 30.00 -0.4
 MBC 85.76 351 eP 21 40.50 0.9
 1.0s 6.00nm 4.8mb
 WB2 139.76 229 ePKP 28 29.70 -0.5
 1.4s 1.50nm
 WRA 139.77 229 PKP 28 31.00 0.8
 0.9s 1.20nm
 LZH 150.12 359 ePKP 28 52.50 5.3X
 1.5s 14.00nm
 i 29 19.00
 S.D. = 1.0 on 14 of 18 obs.

? APR 04, 1991 20h 11m 24.35±2.87s
 31.036 S ± 14.7km 68.249 W ± 30.7km
 DEPTH = 33.0km (normal)
 SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.35 213 iPc 11 34.50 1.7
 CFA 0.57 179 eP 11 35.60 -0.4
 ZON 0.63 216 iPd 11 36.00 -0.8
 eS 11 47.00
 RTCB 0.65 226 iPd 11 36.80 -0.4
 RTRS 1.35 309 ePc 11 47.00 -0.1
 S.D. = 1.4 on 5 of 5 obs.

? APR 04, 1991 20h 33m 25.68±2.24s
 16.348 N ± 26.2km 61.061 W ± 16.9km
 DEPTH = 33.0km (normal)
 LEEWARD ISLANDS (92)
 ML 2.6 (FDF).

DEG 0.03 179 iPd 33 29.45 0.2
 S 33 37.90
 SFG 0.16 234 ePd 33 29.48 -0.4
 SEG 0.43 277 eP 33 33.26 0.0
 S 33 37.30
 DOG 0.62 240 eP 33 36.00 0.0
 PAG 0.67 242 eP 33 37.10 0.3
 S.D. = 0.4 on 5 of 5 obs.

? APR 04, 1991 20h 42m 34.20±1.39s

16.298 N ± 20.7km 61.065 W ± 16.4km
 DEPTH = 33.0km (normal)
 LEEWARD ISLANDS (92)
 ML 2.0 (FDF).

DEG 0.02 18 iPd 42 39.86 0.1
 S 42 42.40
 SFG 0.13 251 iPd 42 39.90 -0.3
 SEG 0.44 284 eP 42 43.80 0.0
 S 42 48.30
 DOG 0.59 244 eP 42 46.20 0.0
 PAG 0.65 246 eP 42 47.10 0.1
 S 42 54.40

S.D. = 0.2 on 5 of 5 obs.

APR 04, 1991 20h 43m 08.74±0.53s
 45.728 N ± 5.7km 14.883 E ± 4.5km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)

ML 3.0 (ZAG), 3.0 (VKA), MD 3.5
 (LJU), 2.8 (TRI), Felt (V) at
 Kocevje.

CEY 0.32 272 iPg 43 14.90 -0.5
 eSg 43 19.90
 VBY 0.34 130 iPg 43 14.50 -1.4
 iSg 43 19.30
 LJU 0.40 322 iPg 43 17.10 0.2
 eSg 43 23.60
 RIY 0.52 222 iPg 43 17.10 -2.1
 iSg 43 24.40
 VOY 0.75 294 iPg 43 22.80 -0.8
 eSg 43 34.20
 PTJ 0.77 77 iPg 43 24.00 0.1
 eSg 43 35.70
 ZAG 0.78 83 iPg 43 24.20 0.4
 iSg 43 36.00
 TRI 0.78 269 ePg 43 22.40 -1.6
 iSg 43 34.30
 FVI 1.70 301 P 43 40.20 1.7
 eSg 44 04.00
 CTI 2.28 279 P 43 47.40 0.3
 eSg 44 18.20
 ARV 2.62 213 P 43 53.60 1.7
 VKA 2.72 21 iPnc 43 52.80 -0.5
 iPg 44 02.00
 iSg 44 41.30
 HVAR 2.78 156 ePn 43 54.80 0.6
 iSn 44 30.20
 SFI 2.81 231 P 43 56.50 2.0
 eSn 44 29.00
 ZST 2.90 31 iP 43 55.40 -0.4
 i 44 05.50
 i 44 48.20
 CRE 2.96 226 P 43 57.00 0.2
 GRF 4.67 329 ePg 44 40.60 19.6X
 eSg 45 39.60

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

* APR 04, 1991 21h 45m 02.77±0.58s
 8.890 S ± 14.2km 124.091 E ± 16.1km
 DEPTH = 33.0km (normal)
 4.6mb (2 obs.)

TIMOR (289)
 MTN 7.95 120 eP 47 00.50 1.5
 0.3s 167.00nm 6.6mb X
 eS 48 22.00
 KNA 8.21 147 eP 47 01.90 -0.6
 0.2s 23.00nm 5.9mb X
 eS 48 27.00
 WB2 14.81 139 eP 48 29.70 -2.0
 0.3s 7.10nm 4.5mb X
 e 48 38.20
 WARB 17.37 172 eP 49 05.00 0.6
 eS 52 04.00
 ASPA 17.44 149 eP 49 04.30 -0.9
 0.4s 11.20nm 4.3mb
 eS 52 04.50
 OIS 18.94 129 iPc 49 24.50 0.7
 eS 52 44.00
 GUN 52.00 316 P 54 11.94 0.1
 0.5s 15.00nm 5.2mb X
 52.12 315 P 54 12.32 -0.3
 0.4s 13.00nm 5.2mb X
 KKN 52.34 315 P 54 14.14 -0.1
 DMN 52.35 315 P 54 14.22 -0.1

0.6s 9.00nm 4.9mb
GKN 52.92 315 P 54 18.22 -0.2
0.3s 9.00nm 5.2mb X
CSY 58.07 186 iPd 54 56.20 1.4
S.D. = 1.1 on 12 of 12 obs.

& APR 04, 1991 21h 56m 27.90s
36.647 N 121.313 W
DEPTH = 5.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.3 (BRK).

SAO 0.16 318 iPc 56 31.08 -0.1
LLA 0.30 96 iPc 56 33.82 -0.1
iS 56 38.84
PRS 0.32 188 iPd 56 34.31 0.0
GCC 0.67 305 iPd 56 40.64 -0.6
ARN 0.72 346 eP 56 42.10 -0.3
PRI 0.73 134 ePc 56 42.09 -0.3
MHC 0.74 339 ePc 56 43.30 0.6
PCC 1.21 315 ePc 56 49.35 -1.5
FRI 1.33 75 iPd 56 51.49 -1.5
iS 57 08.74
CMB 1.57 28 eP 56 54.30 -2.2
iS 57 14.80
BCH 1.77 145 eP 56 58.00 -1.5
11 obs. associated

* APR 04, 1991 22h 19m 53.58 ± 1.30s
23.677 N ± 8.5km 121.663 E ± 12.8km
DEPTH = 10.0km (geophysicist)
3.7mb (1 obs.)

TAIWAN (244)
TWD 0.41 351 iPd 20 01.70 -0.2
eS 20 07.00
TWF1 0.47 226 ePc 20 03.00 -0.1
TWC 0.94 10 iPd 20 12.30 0.8
eS 20 25.50
TWO 0.96 308 eP 20 11.50 -0.4
eS 20 23.50
TWK 1.15 250 iPc 20 15.70 0.5
eS 20 31.50
YKA 83.27 23 eP 32 20.80 -0.6
1.0s 0.50nm 3.7mb
S.D. = 0.7 on 6 of 6 obs.

% APR 04, 1991 22h 35m 40.79 ± 2.58s
43.040 N ± 23.4km 0.964 W ± 14.3km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
MD 1.0 (STR).

BOH 0.07 331 Pg 35 43.14 -0.1
Sg 35 45.45
ISSF 0.12 95 Pg 35 44.05 0.1
Sg 35 46.39
ELYF 0.13 351 Pg 35 44.15 0.1
Sg 35 46.19
MADF 0.15 45 Pg 35 44.31 0.0
Sg 35 46.71
ATE 0.20 76 Pg 35 45.02 -0.1
Sg 35 47.86
S.D. = 0.2 on 5 of 5 obs.

% APR 04, 1991 22h 37m 29.59 ± 0.90s
40.837 N ± 9.6km 22.366 E ± 6.2km
DEPTH = 10.0km (geophysicist)
GREECE (364)

GRG 0.12 13 ePd 37 33.04 0.4
iS 37 34.64
THE 0.50 114 ePd 37 39.76 0.1
eS 37 47.24
KNT 0.52 51 ePc 37 39.64 -0.4
eS 37 46.36
SOH 0.75 91 ePc 37 44.40 0.1
iS 37 55.36
FNA 0.75 266 ePc 37 44.24 -0.1
eS 37 53.84
S.D. = 0.4 on 5 of 5 obs.

? APR 04, 1991 22h 53m 42.15 ± 1.44s
20.186 S ± 28.7km 65.255 W ± 13.1km
DEPTH = 360.0 ± 11.4 km
4.3mb (2 obs.)
SOUTHERN BOLIVIA (125)

CCH 2.91 343 Pd 54 43.30 1.0
i 55 33.00
CNCB 4.24 322 iPc 54 55.10 -0.2
S 55 55.00
LPB 4.53 323 P 54 59.70 1.5
S 56 00.00
ZOBO 4.75 325 iPc 55 00.20 -0.6
S 56 02.00
SIV 5.76 44 iPd 55 10.40 -0.9
ARE 6.98 301 iPc 55 23.90 -1.7
iS 56 42.50
HUA 12.61 308 eP 56 13.00 -19.8X
PPD 13.14 100 eP 56 39.20 0.6
VAO 17.24 103 eP 57 22.20 -0.1
e 57 27.40
LIC 64.74 73 Pc 03 45.00 -0.3
KIC 65.05 73 Pc 03 47.10 -0.3
LKO 65.71 69 Pc 03 51.00 -0.5
0.5s 8.00nm 4.7mb
YKA 91.13 339 eP 06 08.60 1.3
0.6s 1.00nm 3.9mb
INK 100.90 339 ePd 07 08.00 16.5X
GKN 151.49 68 PKP 12 57.80 8.6X
DMN 151.96 69 PKP 13 00.80 10.7X
KKK 152.09 69 PKP 12 59.00 8.8X
PKI 152.23 69 PKP 13 00.20 9.6X
GUN 152.59 68 PKP 13 00.40 9.3X
S.D. = 1.1 on 12 of 19 obs.

* APR 04, 1991 22h 54m 41.31 ± 1.25s
6.013 S ± 11.3km 77.088 W ± 22.3km
DEPTH = 42.3 ± 16.9 km
4.4mb (1 obs.)
NORTHERN PERU (111)

TUNG 4.76 343 P 55 52.50 -0.3
VC1 5.50 346 eP 56 03.50 0.1
NNA 5.94 178 iPd 56 08.50 -0.7
eS 57 14.00
CAYA 6.12 352 eP 56 12.40 0.3
COTA 6.43 349 eP 56 20.60 4.1X
ZOBO 13.46 140 P 57 55.00 2.5
Z 20s 0.50um
LR 03 15.00
LPB 13.67 141 P 58 04.00 8.8X
CNCB 13.95 141 P 58 06.90 7.9X
SIV 18.57 124 P 58 55.30 -1.9
ALO 49.25 328 eP 03 28.00 -0.1
1.0s 4.25nm 4.4mb
KIC 73.24 82 P 06 10.40 -0.2
MBC 85.69 351 eP 07 17.00 0.5
S.D. = 1.5 on 9 of 12 obs.

& APR 05, 1991 00h 42m 00.00s
37.300 N 116.300 W
DEPTH = 0.0km (geophysicist)
SOUTHERN NEVADA (41)
<SPEC>. Collapse. Held to
"BEXAR" location.

TNP 1.07 317 eP 42 22.00 0.8
BONR 1.72 293 eP 42 34.00 2.4
KVN 2.25 321 eP 42 45.00 5.7
CMB 3.32 284 e(P) 43 05.00 10.6
ABL 3.40 225 eP 43 03.50 7.8
PEC 3.47 192 eP 43 01.50 5.0
BCH 3.72 237 eP 43 10.00 10.0
PLM 3.96 187 eP 43 04.00 0.4
ORV 4.66 300 P 43 01.50 -11.9
ALO 8.30 104 e(P) 44 33.00 28.2
10 obs. associated

* APR 05, 1991 03h 07m 28.90 ± 1.33s
42.276 N ± 7.9km 16.939 E ± 14.3km
DEPTH = 10.0km (geophysicist)
ADRIATIC SEA (382)

HVAR 0.97 338 iPg 07 47.40 0.1
iSg 08 01.80
BRT 1.41 172 Pc 07 54.50 -0.1
eSg 08 13.50
DUI 1.95 252 P 08 02.50 0.1
SGO 2.11 216 P 08 04.90 0.3
SDI 2.40 257 P 08 08.60 -0.3
S.D. = 0.3 on 5 of 5 obs.

% APR 05, 1991 03h 09m 50.07 ± 0.52s

46.052 N ± 4.6km 2.776 E ± 4.4km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.0 (LDG).

MAF 0.22 319 Pg 09 55.20 0.3
Sg 09 58.90
TCF 0.46 301 Pg 09 59.20 -0.2
Sg 10 06.00
BGF 0.51 5 Pg 10 00.20 -0.2
Sg 10 08.20
AVF 0.84 28 Pg 10 06.20 -0.1
Sg 10 17.20
LSF 0.89 283 Pg 10 07.00 -0.1
Sg 10 19.20
SMF 0.95 51 Pg 10 08.00 -0.1
Sg 10 20.80
SSF 1.13 26 Pg 10 11.20 0.0
Sg 10 26.00
RJF 1.16 230 Pg 10 12.00 0.3
Sg 10 26.20
CAF 1.23 204 Pg 10 12.80 -0.2
Sg 10 28.00
LBF 1.25 41 Pg 10 13.20 -0.1
Sg 10 29.40
LOR 1.43 31 Pg 10 16.50 0.5
Sg 10 35.00
S.D. = 0.3 on 11 of 11 obs.

% APR 05, 1991 03h 31m 25.89 ± 1.79s
15.225 N ± 16.6km 98.131 W ± 10.8km
DEPTH = 33.0km (normal)
OFF COAST OF GUERRERO, MEXICO (65)

OXX 2.29 36 iP 32 03.00 0.7
iS 32 27.00
ACX 2.33 315 eP 32 03.00 0.3
iS 32 27.00
III 3.38 338 eP 32 18.00 0.1
iS 32 50.50
IIT 3.78 357 eP 32 23.00 -0.5
(S) 33 04.50
IISM 3.81 11 eP 32 23.50 -0.2
iS 33 02.00
PPM 3.85 353 eP 32 24.50 -0.2
iS 33 03.00
UNM 4.21 346 (P) 32 56.00 26.4X
(S) 33 16.50
CRX 4.41 341 (P) 32 40.50 7.9X
(S) 33 24.00
LVVM 4.77 19 (P) 32 47.00 9.8X
MRX 5.33 327 (P) 32 51.00 5.8X
TPX 5.68 92 (P) 32 50.00 -0.2
S.D. = 0.5 on 7 of 11 obs.

? APR 05, 1991 04h 02m 16.16 ± 4.88s
15.466 N ± 42.6km 98.128 W ± 12.7km
DEPTH = 45.3 ± 19.5 km
3.2mb (1 obs.)
OFF COAST OF GUERRERO, MEXICO (65)

OXX 2.10 40 eP 02 49.50 -0.2
iS 03 14.50
ACX 2.17 310 eP 02 50.50 -0.1
iS 03 15.50
III 3.17 336 eP 03 05.50 0.5
iS 03 40.00
IIT 3.54 357 eP 03 09.50 -0.8
iS 03 53.00
IISM 3.58 11 iP 03 11.50 1.0
iS 03 55.00
PPM 3.61 352 eP 03 11.00 -0.5
iS 03 52.00
UNM 3.97 345 (P) 03 48.00 31.5X
CRX 4.19 340 (P) 03 29.00 9.5X
LVVM 4.54 20 (P) 03 35.00 10.9X
MRX 5.13 326 (P) 03 40.00 7.6X
iS 04 34.50
ALO 20.79 340 eP 06 55.70 -0.5
ANMO 20.79 340 eP 06 56.70 0.5
1.1s 1.27nm 3.2mb
S.D. = 0.8 on 8 of 12 obs.

APR 05, 1991 04h 19m 49.52 ± 0.09s
5.982 S ± 1.7km 77.094 W ± 2.3km
DEPTH = 19.8km (geophysicist)
6.5mb (83 obs.) 6.8Msz (39 obs.)

05d 04h

NORTHERN PERU (111)

Ms 6.7 (BRK). 6.4 (PAS).
 Mo=5.0*10**19 Nm (PPT). Fifty-
 three people killed, 252 injured
 and extensive damage (VII) to
 8,063 homes in the Rioja-
 Mayabamba-Nueva Cajamarca area.
 Felt (VI) at Tarapoto, (V) at
 Chiclayo, (IV) at Trujillo and
 (II) at Lima. Felt throughout
 northern Peru. Felt (IV) at
 Guayaquil and (III) at Quito,
 Ecuador. Felt strongly in much
 of southern Ecuador. Two events
 about 6 seconds apart. Depth
 from broadband displacement
 seismograms, based on second
 event.

FAULT PLANE SOLUTION: P-Waves
 NP1: Strike=310 Dip=70 Slip= 135
 NP2: 59 48 27
 Principal Axes:

T P1g=45 Azm=265
 P 13 9

Comment: The focal mechanism is
 poorly controlled and
 corresponds to strike-slip
 faulting with a large reverse
 component. The preferred fault
 plane is not determined.

RADIATED ENERGY

No. of sta: 11 Focal mech. M
 Energy 9.4±2.2*10**14 Nm

MOMENT TENSOR SOLUTION

Dep 36 No. of sta: 15

Moment Tensor: Scale 10**19 Nm

Mrr= 1.19 Mtt=-2.50

Mff= 1.31 Mrt=-0.49

Mrf= 1.44 Mtf= 0.74

Principal axes:

T Val= 2.70 P1g=43 Azm=273

N 0.09 45 116

P -2.80 12 14

Best Double Couple: Mo=2.8*10**19

NP1: Strike= 64 Dip=51 Slip= 26

NP2: 317 70 138

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 22S, 63C M.W.: 11S, 30C

Centroid Location:

Origin Time 04:20: 5.8 0.1

Lat 5.93S 0.02 Lon 76.84W 0.01

Dep 39.7 BDY Half-duration 11.4

Moment Tensor: Scale 10**19 Nm

Mrr= 2.70 0.03 Mtt=-0.17 0.02

Mff=-2.53 0.03 Mrt=-0.68 0.04

Mrf= 1.17 0.04 Mtf= 0.24 0.03

Principal Axes:

T Val= 3.07 P1g=74 Azm=226

N -0.23 9 349

P -2.84 13 81

Best Double Couple: Mo=3.0*10**19

NP1: Strike=183 Dip=33 Slip= 106

NP2: 344 58 80

GEOSCOPE MOMENT TENSOR (PAR)

Data Used: GEOSCOPE

Dep 30 Half-duration 8.0

Moment Tensor: Scale 10**19 Nm

Mrr= 2.55 0.06 Mff=-2.39 0.11

Mtt=-0.16 0.11 Mtf= 0.44 0.05

Mtr= 1.10 0.81 Mfr= 4.09 0.80

Best Double Couple: Mo=5.1*10**19

NP1: Strike=191 Dip=75 Slip= 100

NP2: 335 19 56

CHP8 2.86 254 P 20 27.40 -7.6X
 TUNG 4.73 343 P 21 02.30 0.4
 VC1 5.47 346 P 21 12.60 0.1
 QUIL 5.50 341 P 21 15.10 2.2
 ANGL 5.57 355 P 21 19.10 5.2X
 PT09 5.72 171 P 21 21.00 4.8X
 QTO 5.91 346 ePn 21 21.10 2.5
 GGP 5.96 345 P 21 21.00 1.5
 PT08 5.96 175 P 21 22.50 3.2X
 NNA 5.97 178 iPc 21 18.20 -0.9
 0.5s 320.42nm 6.3mb
 eS 22 32.00

YANA	6.01	346	eP	21	20.60	0.5	ROCH	27.44	169	iPc	25	36.30	-0.2
PT10	6.05	179	iPc	21	20.00	-0.3	PEL	27.67	168	iPc	25	38.00	-0.3
			iS	22	15.00			1.5s	2250.00nm			6.7mb	
CAYA	6.09	352	P	21	22.00	0.8	LCCH	27.83	170	iPc	25	39.50	-0.2
HUA	6.27	164	iPd	21	24.90	1.2	MDZ	27.84	165	i(P)	25	41.30	1.4
			i	22	10.40		CPB	27.90	32	eP	25	38.46	-1.9
COTA	6.40	349	eP	21	26.00	0.4	SAN	27.98	168	ePc	25	41.00	-0.1
PSO	7.13	358	eP	21	36.50	0.7	TACH	28.12	169	ePc	25	42.20	-0.1
PURC	8.28	5	Pc	21	50.70	-1.3	PCH	28.17	168	iPc	25	42.90	0.0
SILC	8.65	5	P	21	55.59	-1.4	LNV	28.33	170	iPc	25	43.50	-0.6
HOQC	9.40	3	Pc	22	06.91	-0.3	ITB1	28.61	133	e(P)	25	45.40	-1.4
ANCC	9.44	1	Pc	22	07.44	-0.1	ITB	28.83	133	e(P)	25	48.00	-0.8
CLMC	9.81	3	P	22	12.02	-0.8	ITB7	29.05	133	e(P)	25	50.00	-0.6
BUGC	9.85	5	P	22	13.68	0.4	PPD	29.59	125	iPc	25	53.30	-2.4
BOG	10.96	16	iPc	22	29.00	0.3	OXX	30.03	320	(P)	26	01.50	1.7
ARE	11.77	153	eP	22	38.00	-1.8	BAO	30.11	111	iPc	25	50.10	-10.5X
FUO	11.86	16	iP	22	41.00	0.0	BDF	30.20	111	ePc	25	59.73	-1.6
ZOBO	13.48	140	ePc	22	59.67	-3.2X				e	26	08.67	
BMG	13.57	17	iPd	23	04.00	0.4				eS	30	55.63	
LPB	13.70	141	P	23	04.00	-1.5				e	31	04.74	
CNCB	13.98	141	P	23	08.00	-1.4	IISM	31.86	322	(P)	26	17.50	1.8
ECO	15.46	350	(P)	23	29.00	0.7	LVVM	31.88	324	(P)	26	15.00	-0.8
			i	23	33.10		ACX	31.97	316	(P)	26	18.50	1.8
			i	23	49.70		IT	32.47	320	(P)	26	23.50	2.2
CCH	15.59	138	P	23	27.80	-2.4	PPM	32.71	320	(P)	26	25.50	1.8
SDV	16.11	24	eP	23	36.50	-0.4	III	32.76	318	(P)	26	25.00	1.2
TOV	17.27	25	iP	23	51.00	-0.4	UNM	33.26	320	(P)	26	30.50	2.3
			iS	27	22.00		VAO	33.60	123	ePc	26	28.50	-2.5
CEOS	17.28	30	iP	23	50.30	-1.2	CRX	33.63	319	(P)	26	34.00	2.5
MORO	18.89	28	iP	24	12.20	0.8	LPA	33.78	151	iPc+	26	32.00	-0.3
OLLA	18.91	33	iP	24	11.40	-0.3		0.9s	941.18nm			6.7mb	
CAR	19.26	32	iP	24	16.00	0.1	Z	20s	147.52um			6.7msz	
			iS	27	30.00				iS	31	56.00		
LLAV	19.29	32	iP	24	15.70	-0.7	MRX	34.84	318	(P)	26	44.50	3.0X
GUAN	19.51	36	iP	24	18.80	-0.1	CGX	36.40	315	(P)	27	03.00	8.0X
SLA	21.71	150	ePc	24	42.00	0.4	HBF	38.83	356	P	27	15.60	0.6
TPP	22.47	44	eP	24	49.95	0.9	VNM	39.01	325	(P)	27	24.00	7.4X
TCE	22.54	43	eP	24	49.00	-0.7	SGS	39.09	355	P	27	17.40	0.2
			e	25	01.40		CAI	39.71	93	iPc	27	20.30	-2.4
			eS	29	00.00		PRM	40.16	353	P	27	25.80	-0.2
TRN	22.74	43	eP	24	51.93	0.2	JSC	40.24	355	P	27	26.40	-0.2
			e	25	02.98		LHS	40.39	355	P	27	27.60	-0.3
			e	25	07.90		GBTN	41.96	351	P	27	40.20	-0.6
			eS	29	04.10		PWLA	42.03	347	P	27	40.00	-1.4
TBH	22.85	44	eP	24	54.15	1.3	RSCP	42.12	350	ePd	27	40.90	-1.3
			e	25	03.00				eScP	33	01.00		
			eS	29	08.00				eS	33	06.80		
BOT	23.58	44	eP	25	01.75	1.9	BLA	43.08	356	ePc	27	49.50	-0.5
YHJ	23.73	1	eP	25	03.93	2.6		1.0s	150.00nm			5.7mb	
SPJ	23.83	359	eP	25	04.92	2.5	NAV	43.21	356	P	27	50.80	-0.3
STH	23.91	1	eP	25	05.90	2.8	OLY	43.42	343	P	27	51.40	-1.4
BBJ	24.21	360	eP	25	05.94	-0.2	CVL	43.76	358	P	27	55.40	0.0
SVV	24.83	39	eP	25	12.99	1.0	CBN	43.96	360	iPd	27	57.20	0.2
			eS	29	44.00		ELC	44.51	346	P	27	59.20	-2.3
SOA	24.91	39	eP	25	13.94	1.1	TUL	45.22	338	iPd	28	05.20	-2.1
RTRS	25.11	164	ePc	25	16.40	1.8		1.4s	2538.10nm			7.0mb	
SLB	25.32	39	eP	25	15.41	-1.4	Z	22s	90.23um			6.7msz	
			eS	29	46.00				e	28	13.40		
TPX	25.63	324	(P)	25	21.50	1.9			LR	38	26.50		
MGP	25.80	22	P	25	21.00	-0.2	FVM	45.47	345	iPc	28	07.00	-2.2
BIM	25.83	38	eP	25	19.10	-2.5			e	28	14.50		
FDI	25.95	37	eP	25	20.46	-2.2	SCP	46.55	359	ePc	28	17.04	-0.6
			S	29	52.00				ec	28	23.67		
PORP	26.02	23	P	25	22.70	-0.5			ed	28	32.44		
DPMT	26.22	36	eP	25	25.02	-0.1			eS	35	06.42		
			eS	30	06.00				e	35	11.66		
DBCT	26.25	36	eP	25	20.38	-5.1X			eSS	38	23.11		
MDN	26.26	36	eP	25	19.63	-5.8X	GMTN	46.71	3	iP	28	18.90	0.0
MDN	26.26	36	eP	25	25.98	0.5	CLE	47.41	355	iP	28	23.20	-1.3
SJG	26.26	24	P	25	25.50	0.0	DLA	48.78	356	P	28	33.00	-2.1
CPD	26.29	25	P	25	25.40	-0.4	LDN	48.93	356	P	28	34.25	-2.0
BBL	26.38	36	eP	25	25.50	-1.1	ELF	49.09	356	P	28	35.25	-2.3
RTLL	26.48	163	iPd	25	27.30	-0.2	ALO	49.22	328	iPc+	28	38.40	-0.5
RTCB	26.54	164	ePc	25	28.20	0.2		1.0s	750.00nm			6.7mb	
LPR	26.56	24	P	25	27.40	-0.8	Z	20s	53.19um			6.5msz	
ZON	26.63	164	eP	25	29.00	0.2			i	34	54.00		
PAG	26.67	35	eP	25	28.82	-0.5	ANMO	49.23	328	ePc	28	38.92	0.0
DOG	26.70	35	eP	25	29.17	-0.4	Z	20s	50.00um			6.5msz	
CFA	26.81	163	ePc	25	32.00	1.6			ec	28	45.21		
SEG	27.07	35	eP	25	31.65	-1.2			ed	28	50.01		
SFG	27.12	35	eP	25	32.07	-1.3			ed	28	53.99		
JACH	27.25	168	eP	25	35.00	0.5			ePP	30	39.00		
DEG	27.25	35	eP	25	32.41	-2.2			e	34	54.30		
SCX	27.31	326	(P)	25	43.50	8.5X			eS	35	46.40		
IHA	27.38	170	iPd	25	36.20	0.6			e	35	50.95		
BPA	27.39	33	eP	25	36.03	0.2			e	36			

		e	28	54.00				e	38	08.97	PPT	71.54	254	iP	31	12.40	0.7
GAC	51.47	1 eP	28	55.00	-0.6			e	38	23.54		1.5s	1650.00nm				6.9mb
	1.0s	226.00nm			6.1mb	ARN	59.77	320 P	29	56.20	0.4	PAE	71.54	253 iP	31	12.60	0.9
GLD	52.39	333 iPc	29	02.60	-0.3	MHC	59.84	320 iPc	29	56.30	0.0			iScP	37	30.20	
	1.3s	827.59nm			6.5mb	AIA	59.86	174 eP	29	57.10	1.3	AFR	71.73	254 iP	31	13.40	0.6
Z	19s	45.76um			6.5MsZ	GCC	59.89	319 eP	29	56.00	-0.5	LKO	72.89	78 Pc	31	18.56	-1.3
		i	29	09.80		LRM	60.45	332 ePc	29	59.60	-0.9		1.1s	39.50nm			5.4mb X
GOL	52.42	333 P	29	02.20	-1.0	BKS	60.54	320 eP	30	02.00	-1.1	LIC	72.94	82 Pc	31	19.06	-1.0
GLA	52.81	320 eP	29	06.00	0.0		1.1s	626.00nm			6.7mb	TIC	73.01	81 Pc	31	19.40	-1.1
BAR	53.78	318 eP	29	13.00	-0.1	Z	20s	28.00um			6.4MsZ	KIC	73.24	82 Pc	31	20.82	-1.0
CPE	54.19	318 eP	29	25.50	9.5X	N	20s	34.00um					S		40	49.00	
TPC	54.27	320 eP	29	16.00	-0.7	E	20s	40.00um				YKA	74.06	343 eP	31	26.50	0.8
PLM	54.32	319 eP	29	17.00	-0.3			ePP	32	27.20			0.9s	200.80nm			6.1mb
PEC	54.85	319 ePc	29	20.30	-0.7			e(PPP)	33	24.00		TIO	76.01	56 iPc	31	38.40	0.7
		i	29	27.60				eS	38	19.00				i	31	46.90	
		e	31	58.00				eScS	40	20.00				i	32	11.50	
		eScP	34	33.70				eSS	42	48.00		AVE	76.54	54 iPc	31	41.20	0.7
MSU	54.95	327 P	29	21.80	-0.1			eLO	45	00.00				i	32	35.00	
RVR	55.05	319 eP	29	22.00	-0.4			eLR	48	40.00				i	37	57.80	
RSSD	55.47	337 iP	29	24.30	-1.3	BRK	60.55	320 eP	30	00.00	-0.2	GDH	76.81	8 ePc	31	39.26	-1.9
Z	20s	74.58um			6.8MsZ	Z	20s	18.00um			6.2MsZ		1.0s	118.00nm			5.9mb
GSC	55.51	321 ePc	29	26.10	0.3			iS	38	27.00				ec	31	46.04	
		ec	29	32.06				i	43	30.00				ed	31	55.15	
		ed	29	41.00				eLO	45	36.00				ePP	34	40.73	
		eS	37	14.90				eLR	50	11.00				i	41	50.00	
		e	37	19.86		ZSP	60.59	320 ePc	30	01.30	0.1	LIS	76.84	48 iPc	31	42.00	0.0
		e	37	34.35		ORV	61.07	322 ePc	30	04.20	-0.4	PTO	78.02	46 iPc	31	48.50	0.1
MWC	55.64	319 eP	29	26.00	-0.9	SCH	61.19	7 ePc	30	03.20	-1.9			eS	41	30.00	
PAS	55.67	319 ePc	29	26.60	-0.3		1.1s	573.00nm			6.6mb	EZAM	78.28	45 eP	31	50.30	0.4
		ec	29	32.89		NWRM	61.29	320 P	30	05.60	-0.4	EVAL	78.29	50 eP	31	51.00	1.0
		ed	29	38.19		MIN	61.62	322 ePc	30	06.90	-1.5	IFR	78.44	54 iPc	31	52.00	0.8
		ed	29	42.00		WDC	62.33	322 iPc	30	10.50	-2.5			i	32	00.00	
		ePcP	30	26.00		LBFM	62.40	323 P	30	12.60	-1.1			i	32	08.00	
		epPcP	30	51.00		FHC	63.35	322 ePc	30	19.70	-0.1	CNIL	78.48	51 eP	31	52.50	1.4
		esPcP	31	12.00		SES	63.35	336 ePc	30	17.00	-1.8	SIT	78.50	332 eP	31	51.50	0.8
		ePP	31	52.00			1.0s	1392.00nm			7.1mb	Z	18s	800.00um			8.1MsZ X
		ePPP	33	16.00		FFC	63.95	344 iPc	30	21.60	-1.9	STS	78.63	44 eP	31	51.70	0.0
		ePcS	34	31.00			1.0s	166.00nm			6.1mb	PLAT	78.64	51 eP	31	53.50	1.5
		eScS	39	07.00		NEW	64.41	332 iPc	30	25.20	-1.4	ALJ	78.91	51 eP	31	55.50	1.9
		eLg	41	31.00			1.0s	625.00nm			6.7mb	EJIF	78.96	51 iPd	31	55.30	1.6
		eLR	43	56.00		PDA	64.63	43 iPd	30	27.50	-0.6	LIJA	79.12	51 eP	31	56.50	1.8
SBB	55.78	319 eP	29	27.00	-0.7	DPW	64.66	331 P	30	29.00	0.7	ERUA	79.45	45 iPd	31	56.90	0.6
DAU	55.84	329 P	29	28.20	-0.2	CDR	65.20	325 ePc	30	31.60	-0.1	EHOR	79.50	50 iPc	31	55.60	-1.0
CLC	56.33	321 eP	29	30.00	-1.7			ec	30	37.56		EPLA	79.52	48 eP	31	56.90	0.2
DUG	56.50	328 P	29	32.80	-0.1			ec	30	41.37		EMON	79.65	44 eP	31	57.00	-0.4
BW06	56.78	332 iPd	29	33.10	-1.9			ed	30	46.66		MAL	79.85	51 iPc	32	00.20	1.7
	1.0s	245.00nm			6.2mb			ePP	32	56.43				iS	42	04.00	
ABL	56.78	319 P	29	34.50	-0.7			eS	39	15.30		EGUA	80.53	51 eP	32	02.50	0.3
ISA	56.79	320 ePc	29	34.92	-0.1			e	39	35.72		PFH	80.62	291 P	32	11.00	8.1X
		ec	29	41.21		LON	65.74	328 ePc	30	33.80	-1.4	ECOG	80.65	51 eP	32	04.00	1.1
		ed	29	46.68				ec	30	39.92		AFC	80.66	51 eP	32	04.10	1.1
		ed	29	50.32				ed	30	49.03		VAL	80.75	35 P	32	08.00	5.1X
		ePP	31	53.13				ePP	32	58.63				S	42	08.00	
		eScP	34	20.94		CHIE	66.14	56 iP	30	37.60	-0.5	TOL	80.96	48 ePc	32	04.11	-0.3
		eS	37	31.06				e	30	45.50			1.3s	653.85nm			6.5mb
		e	37	36.44		RMW	66.20	329 P	30	38.00	-0.2			ec	32	10.74	
		e	37	51.33		PNT	66.33	331 ePc	30	38.00	-0.9			ed	32	20.01	
		iSS	41	32.74		EDM	66.45	337 ePc	30	37.50	-2.1			ed	32	22.16	
SBC	56.86	318 ePc	29	35.24	-0.2		1.1s	1217.60nm			7.0mb			ePP	35	30.00	
		ec	29	41.04		TBT	66.52	55 eP	30	39.30	-1.2			eS	42	12.11	
		ed	29	46.50				i	30	48.80				ePS	43	30.00	
		ed	29	49.97		GMW	66.76	328 P	30	40.80	-0.9			eSS	47	35.00	
		eScP	34	27.57		MCW	67.51	329 P	30	46.40	0.0	RAR	81.05	250 P	32	04.00	-1.2
		eS	37	36.59		PGC	67.81	329 eP	30	48.00	-0.2			S	42	04.00	
		e	37	49.84			1.1s	859.00nm			6.8mb	GUD	81.09	47 iPd	32	06.00	0.8
SYP	57.09	318 eP	29	37.00	-0.2	CTFE	67.81	56 eP	30	48.50	-0.2	EHUE	81.53	50 eP	32	08.00	0.5
BLP	57.39	318 P	29	38.50	-0.7	GGC	68.21	57 eP	30	52.90	1.7	EALH	82.44	51 eP	32	13.80	1.7
TNP	57.55	323 iPd	29	39.70	-0.8			e	30	58.50		ECRI	82.80	46 eP	32	14.30	0.4
	1.0s	165.00nm			6.0mb	RUV	69.46	256 iP	30	59.60	0.6	ECB	82.90	36 iPc	32	14.00	-0.1
		eS	37	42.30				iScP	37	18.20			0.9s	192.00nm			6.2mb
BCH	57.55	319 P	29	40.60	0.2	CFTV	69.60	57 eP	30	59.40	-0.4	ECP	83.07	36 iPc	32	15.00	0.0
PKEM	58.09	319 P	29	44.50	0.5			i	31	07.90			0.9s	313.00nm			6.5mb
BONR	58.12	322 P	29	44.40	-0.2	TPT	69.69	256 iP	31	01.00	0.5	ECHE	83.19	49 eP	32	17.00	1.0
RKT	58.18	247 iP	29	43.80	-1.0		1.5s	1815.00nm			7.0mb	AKU	83.23	21 iP	32	16.70	1.1
	1.4s	405.00nm			6.3mb			iScP	37	19.60			1.7s	1046.15nm			6.7mb
PTI	58.21	330 P	29	44.50	-0.5	VAH	69.70	256 iP	31	01.30	0.8	Z	23s	92.42um			7.1MsZ X
FRI	58.40	320 ePc	29	44.80	-1.3		1.5s	1320.00nm			6.9mb			i	38	32.70	
PRI	58.50	319 ePc	29	45.80	-1.2			iScP	37	19.80		BST	83.30	40 P	32	17.25	1.0
KVN	58.70	323 P	29	48.00	-0.5	FRB	69.84	4 ePc	30	58.40	-2.0	ETA	83.33	35 eP	32	16.30	0.0
LLA	58.96	319 iPc	29	49.50	-0.6		1.6s	1580.00nm			6.9mb		0.9s	211.00nm			6.3mb
PRS	59.07	319 ePc	29	50.50	-0.4	PMO	69.96	256 iP	31	02.70	0.6	ACU	83.37	50 eP	32	17.60	0.7
SAO	59.37	319 eP	29	52.70	-0.3		1.5s	1650.00nm			6.9mb	BALM	83.56	334 eP	32	17.30	-0.2
CMB	59.46	321 ePc	29	52.54	-1.1			iScP	37	21.30				i	33	01.80	
		ec	29	58.50		TVO	71.23	253 iP	31	10.50	0.6			i	38	33.80	
		ed	30	08.10		PPN	71.40	254 iP	31	11.40	0.5	HON	83.74	292 P	32	21.00	2.0
		ePP	32	09.09		T81	71.48	247 iP	31	12.80	1.6	INK	83.78	342 ePc	32	17.80	-0.5
		eS	38	04.67			1.6s	1825.00nm			6.9mb		1.0s	780.00nm			6.9mb

05d 04h																				
BOH	83.99	46 P	32 21.00	0.9	UCC	89.21	39 P+	32 45.00	-0.2	PCP	91.05	45 P	32 53.43	-0.6						
ELYF	84.02	46 P	32 20.22	0.1			SKS	43 17.00		FEL	91.11	42 eP	32 54.65	0.3						
NVL	84.04	161 iP	32 22.00	2.3			e	43 35.00		PGF	91.13	48 P	32 54.42	-0.1						
	1.8s	550.00nm		6.5mb	DOU	89.23	40 P	32 45.30	-0.1	SDN	91.13	325 P	32 54.70	0.7						
Z	21s	34.60um		6.7Msz		0.9s	245.00nm		6.5mb	Z	20s	30.00um		6.7Msz						
		iP	32 38.00			Z	20s	55.50um		7.0Msz	KOE	91.27	40 iPc	32 55.20	0.4					
		iPP	35 34.00				i	32 53.00				e	33 02.70							
		ePPP	38 10.00				e	33 06.00		ZLA	91.31	43 ePd	32 55.80	0.6						
		iSKS	42 44.00				SKS	43 11.00		VAI	91.37	44 P	32 55.20	-0.2						
		eSKKS	43 06.00				e	43 43.00		BER	91.42	30 eP	33 04.00	8.8X						
		eS	43 16.00			LRG	89.33	46 iPc	32 46.30	0.3	SLE	91.42	42 ePd	32 56.00	0.4					
		ePS	44 14.00			Z	21s	16.75um		6.5mb	WIN	91.59	113 iPc	32 56.50	-0.7					
		ePPS	44 50.00							6.4Msz		1.0s	140.00nm		6.3mb					
		eSS	48 35.00			LMR	89.42	46 iPc	32 46.60	0.2	LLS	91.65	43 ePd	32 57.50	0.6					
		eSSS	52 52.00			SBA	89.52	191 iPc	32 47.20	0.8	BOB	91.71	45 Pd	32 57.60	0.5					
								(S)	45 06.40		VDL	91.93	44 ePd	32 58.60	0.4					
SPA	84.06	180 iPc	32 20.10	0.0	FRF	89.56	46 iPc	32 47.20	0.1	STU	92.01	41 ePc	32 57.80	-0.5						
	1.0s	305.00nm		6.5mb	SVW	89.68	332 ePc	32 46.20	-1.1		1.2s	171.88nm		6.3mb						
Z	20s	6.53um		6.0Msz	CALN	89.76	46 P	32 48.20	0.0	Z	20s	68.79um		7.1Msz						
		i	38 40.20		BNI	89.80	45 P	32 50.00	1.6	CER	92.06	124 iPc	33 00.00	1.1						
ISSF	84.12	46 P	32 21.78	1.0	VITF	89.82	42 P	32 47.98	-0.1		1.0s	70.00nm		6.0mb						
MADF	84.13	46 P	32 21.10	0.4	RRL	89.86	45 P	32 49.02	0.3	BRW	92.32	341 ePc	32 59.60	0.4						
ATE	84.20	46 P	32 21.88	0.8	LPL	89.91	44 iPc	32 49.40	0.4	OSS	92.41	43 ePd	33 00.80	0.4						
LHE	84.22	46 P	32 21.67	0.4	LPG	89.92	44 iPc	32 49.60	0.5	BDI	92.46	46 P	32 59.80	-0.7						
ESCF	84.29	46 P	32 22.23	0.7		1.0s	140.65nm		6.2mb	MME	92.54	46 P	33 01.90	0.7						
OGE	84.39	46 P	32 22.43	0.5	DBN	89.94	38 eP	32 44.00	-4.6X	SAL	92.56	45 P	33 01.50	0.6						
JAU	84.43	46 P	32 23.36	1.0	Z	22s	90.20um		7.2Msz	MUD	92.87	34 iPd	33 03.60	1.6						
EROO	84.50	48 eP	32 23.10	0.6			e(PP)	36 36.00			1.0s	74.00nm		6.1mb						
EBR	84.56	48 iPd	32 24.00	1.2			eS	43 22.00		FIR	92.90	46 eP	33 02.00	-0.5						
		e	42 08.00				eSS	49 24.00				iPP	37 03.00							
		i	42 46.00		MVIF	89.97	46 P	32 49.03	-0.2			i(S)	43 28.00							
BTH	84.57	46 ePc	32 22.50	-0.3	PZZ	90.02	45 P	32 49.63	0.2	MOTA	93.13	43 iPc	33 03.20	-0.5						
		i	32 23.50		IMA	90.02	337 iPc	32 49.30	0.3		1.4s	437.00nm		6.7mb						
		i	32 27.70			1.6s	993.60nm		6.8mb			i	33 12.10							
EPF	84.93	46 iPc	32 25.50	0.8	HAU	90.02	42 iPc	32 48.80	-0.4	SOTA	93.19	43 iPc	33 04.00	0.1						
	1.3s	817.95nm		6.8mb	Z	22s	7.50um		6.1Msz		1.5s	498.00nm		6.7mb						
LPF	85.17	41 iPc	32 26.00	0.3	TOUF	90.05	46 P	32 49.55	-0.1			i	33 12.50							
GRR	85.38	41 iPc	32 27.00	0.3	AURF	90.09	46 P	32 49.42	-0.3	FUR	93.32	42 eP	33 04.70	0.3						
MFF	85.42	42 iPc	32 27.50	0.5	REVF	90.10	46 P	32 49.44	-0.2	Z	18s	64.00um		7.1Msz						
MLS	85.45	46 P	32 27.85	0.6	DOI	90.12	45 P	32 50.60	0.8	SFI	93.34	46 P	33 04.20	-0.3						
LFF	85.64	44 iPc	32 28.50	0.4	EMS	90.13	44 ePd	32 50.30	0.4	CTI	93.39	44 Pd	33 05.20	0.4						
TOA	85.66	334 eP	32 28.80	0.8	STV	90.14	46 P	32 49.94	0.0	CRE	93.39	47 P	33 03.70	-1.2						
MBC	85.66	351 ePc	32 27.50	-0.1	WLF	90.15	40 iPc	32 50.10	0.4	GRF	93.42	41 ePc	33 04.90	0.1						
	1.0s	708.00nm		6.8mb	SBF	90.17	46 iPc	32 50.00	0.0		1.8s	236.00nm		6.3mb						
FLN	85.71	40 iPc	32 28.80	0.4	AUTN	90.18	46 P	32 50.04	-0.2	Z	22s	56.00um		7.0Msz						
	1.2s	418.40nm		6.5mb	BHB	90.18	45 P	32 49.63	-0.4			e	33 12.50							
Z	20s	12.25um		6.3Msz	ENN	90.18	39 iPc	32 49.90	0.1	WATA	93.45	43 iPc	33 05.00	-0.2						
ESK	85.82	33 iPc	32 28.60	-0.2		1.1s	566.00nm		6.7mb		1.4s	487.00nm		6.7mb						
	2.0s	888.00nm		6.6mb	LSD	90.19	44 P	32 50.87	0.5	WTTA	93.49	43 iPc	33 05.40	0.0						
EKA	85.85	33 P	32 29.00	0.0	ENR	90.21	46 P	32 49.33	-0.9		1.7s	861.00nm		6.9mb						
	1.7s	516.80nm		6.5mb	MEM	90.21	39 iPc	32 49.87	0.0			i	33 13.90							
LPO	85.90	44 iPc	32 29.60	0.2	RSP	90.22	45 P	32 50.87	0.6	MOX	93.76	40 iPc	33 06.20	-0.1						
LDF	85.90	40 iPc	32 29.60	0.2	LOMF	90.25	43 P	32 49.78	-0.5		2.0s	265.00nm		6.3mb						
ESEL	86.14	50 eP	32 30.10	-0.6	TTA	90.26	333 ePc	32 50.10	0.0	Z	24s	83.20um		7.1MszX						
RJF	86.26	44 iPc	32 31.30	0.1		1.3s	306.00nm		6.4mb	N	22s	45.90um								
Z	21s	10.25um		6.2Msz	SAOF	90.27	46 P	32 50.30	-0.1	E	22s	40.00um								
LSF	86.47	43 iPc	32 32.10	-0.1	BSF	90.29	42 P	32 50.03	-0.5			i	33 14.00							
	1.4s	128.50nm		6.0mb	DIX	90.46	44 ePd	32 52.30	0.7	RSM	93.78	46 P	33 06.90	0.4						
CAF	86.56	44 iPc	32 32.70	0.0	IMI	90.50	46 P	32 50.76	-0.8	RMP	93.79	49 P	33 08.00	1.3						
ETER	86.60	47 eP	32 33.80	0.9	MOF	90.52	42 P	32 50.97	-0.6	MNS	93.82	48 P	33 07.00	0.2						
PMR	86.80	333 ePc	32 32.90	-0.6	ROB	90.54	46 P	32 50.97	-0.7	HOF	93.90	40 iPc	33 07.40	0.4						
	1.0s	240.00nm		6.4mb	ECH	90.59	42 P	32 51.57	-0.2	Z	20s	100.00um		7.3Msz						
		i	32 39.90		CDF	90.70	42 P	32 52.07	-0.3			47 P	33 07.60	-0.4						
TCF	86.94	43 iPc	32 34.10	-0.4	BBS	90.72	42 P	32 52.07	-0.4	ARV	94.10	47 P	33 07.60	-0.4						
	1.4s	128.50nm		6.0mb	STB	90.73	39 iPc	32 53.00	0.6	MCT	94.18	53 P	33 10.80	2.0						
MAF	87.17	43 iPc	32 35.30	-0.3		1.2s	221.00nm		6.3mb	FAI	94.19	53 Pd	33 10.90	2.3						
FBA	87.33	336 ePc	32 35.90	-0.1	WLS	90.75	42 P	32 52.24	-0.3	FVI	94.21	44 P	33 08.60	0.2						
	1.7s	1584.10nm		7.0mb	FIN	90.77	46 P	32 51.69	-1.0	AZI	94.35	48 P	33 10.20	1.0						
BGF	87.42	43 iPc	32 36.60	-0.2	ORO	90.79	44 P	32 52.60	-0.3	BHG	94.36	43 iPc	33 09.40	0.2						
AVF	87.81	43 iPc	32 38.10	-0.6	MMK	90.84	44 ePd	32 54.30	1.0		1.9s	244.00nm		6.3mb						
SSF	87.96	42 iPc	32 38.80	-0.6	CKI	90.84	46 P	32 53.10	0.1	NB2	94.37	29 P	33 09.20	0.3						
SMF	88.11	43 iPc	32 39.80	-0.4	WTS	90.92	38 iPc	32 53.40	0.3		1.6s	251.60nm		6.4mb						
LOR	88.24	42 iPc	32 40.20	-0.6		0.9s	229.00nm		6.5mb	WET	94.46	41 iPc	33 09.80	0.2						
	0.9s	127.95nm		6.2mb	WIT	90.96	37 eP	32 55.00	1.7	GIB	94.52	52 P	33 10.30	0.1						
Z	22s	10.75um		6.2Msz	BGG	90.99	40 iPc	32 54.00	0.5	SDI	94.61	49 P	33 11.00	0.5						
LBF	88.27	43 iPc	32 40.10	-0.8		1.3s	253.00nm		6.4mb	COP	94.63	35 iPc+	33 11.50	1.4						
	1.4s	128.50nm		6.1mb	BNS	91.00	39 iPc	32 53.90	0.4		0.9s	191.60nm		6.5mb						
PDB	88.68	330 P	32 41.70	-0.9		1.4s	694.00nm		6.8mb	Z	21s	43.01um		6.9Msz						
JNW	88.82	18 eP	32 44.00	0.9	Z	24s	17.00um		6.4MszX			i	33 20.00							
DAG	88.88	11 iPd+	32 42.60	-0.6	GWF	91.00	41 P	32 53.86	0.2			i	33 32.00							
	1.1s	797.47nm		6.9mb	STR	91.04	41 P	32 53.57	-0.2			i	43 44.00							
CDR	88.94	46 iPc	32 43.90	-0.3																
		i	32 52.30																	
		i	34 15.10																	
		e	36 18.50																	
SNF	89.11	39 iPc	32 44.59	-0.2																
		id	32 52.89																	

KBA	94.63	43	iPc	33	44 27.00 33 10.30	-0.3	WEL	99.51	227	eP	33	34.00	1.3	MLR	103.38	45	ePdiff	33	53.50	3.4X
	1.9s	668.00nm			6.7mb					PP	37	38.00					e	37	00.00	
			i	33	18.60					SKS	44	24.00		RDO	103.42	49	ePdiff	33	50.00	-0.2
			i	33	32.40					SKS	45	22.00		NPS	103.80	55	ePdiff	34	01.00	8.9X
			i	36	13.30					PS	46	30.00		PUL	103.88	30	ePdiff	33	52.00	0.3
			i	37	10.20					SS	51	26.00		SMY	106.09	323	Pdiff	34	10.00	8.3X
CLL	94.68	39	iPc	33	44 10.90	0.4	BEO	99.54	46	eP	33	33.50	0.8	Z	20s	22.00um			6.7MsZ	
	1.8s	155.00nm			6.1mb		VLS	99.70	52	eP	33	33.40	-0.2	SMY	106.09	323	e(Pdiff	34	04.30	2.6X
Z	21s	77.00um			7.1MsZ		OHR	99.85	49	iP	33	34.80	0.5	Z	21s	20.80um			6.7MsZ	
			eSKS	43	47.00			1.8s	583.00nm				6.8mb	PTZ	106.24	107	ePdiff	34	03.00	-0.4
			eS	44	36.00					i	33	42.20					i	37	31.50	
TRI	94.84	45	P	33	12.20	0.9	ILT	99.88	338	iPc	33	33.00	-0.8				i	38	18.90	
BRN	94.88	38	ePc	33	13.50	2.2	PRY	100.18	119	iPdiff	33	41.50	5.2X				i	38	35.10	
VOY	94.95	44	ePc	33	11.80	-0.2	SKO	100.31	49	iPdiff	33	36.50	0.1	OBN	108.33	34	ePdiff	34	12.00	0.4
DUI	95.09	49	P	33	14.00	1.3		1.5s	79.00nm				6.0mb		1.4s	*****nm			9.6mb X	
KMR	95.22	42	iP+	33	13.20	0.1	Z	21s	44.22um				6.9MsZ	Z	22s	56.00um			7.1MsZ	
			iPP	37	03.40		N	20s	37.04um					N	22s	35.00um				
			i	43	57.20		E	23s	46.20um					E	22s	46.00um				
			iSP	45	44.50							33	43.50				e	34	33.00	
BRG	95.25	40	eP	33	12.00	-1.2							33	55.50			e	37	52.00	
Z	20s	142.00um			7.4MsZ								iPP	37	57.00		ePP	38	42.00	
N	20s	9.50um											iSKS	44	15.00		iSKS	44	50.00	
E	20s	40.00um											iS	45	23.00		eSKKS	45	40.00	
			i	33	32.00								iPS	46	50.00		iPS	48	04.00	
CEY	95.30	45	ePc	33	13.40	-0.2							i	46	54.00		eSS	53	54.00	
LJU	95.39	44	ePc	33	14.00	0.1	KEV	100.45	20	ePdiff	33	29.00	-7.3X				eSSS	57	48.00	
			eS	43	50.00			1.0s	36.00nm				5.9mb	HLW	108.94	61	ePdiff	34	16.00	1.0
HFS	95.54	30	eP	33	14.10	-0.1										i	33	43.00		
	0.9s	59.40nm			6.0mb									BBTK	109.04	50	ePdiff	34	22.00	6.6X
KBS	95.64	11	eP	33	16.00															

05d 04h

HOJ	129.12	322	PKP	38	57.60	-0.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
-----	--------	-----	-----	----	-------	------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

S.D. = 1.0 on 534 of 611 obs.

? APR 05, 1991 04h 21m 27.00± 5.86s

	1.0 s	70.00nm		5.7mb
GMW	66.49	328 P	12 03.00	2.8
PGC	67.53	329 eP	12 07.00	0.3
RUV	69.27	256 iP	12 19.40	1.4
	1.0 s	40.00nm		5.5mb
TPT	69.50	256 iP	12 20.90	1.5
	1.0 s	40.00nm		5.5mb
VAH	69.50	256 iP	12 20.80	1.3
	1.0 s	40.00nm		5.5mb
FRB	69.68	4 eP	12 13.00	-6.7X
PMO	69.76	256 iP	12 21.60	0.5
	1.0 s	30.00nm		5.4mb
TVO	71.04	253 iP	12 29.00	0.0
	1.0 s	40.00nm		5.5mb
PPN	71.22	254 iP	12 30.40	0.5
	1.0 s	20.00nm		5.2mb
PPT	71.35	253 iP	12 32.30	1.5
	1.0 s	40.00nm		5.5mb
PAE	71.36	253 iP	12 32.20	1.4
	1.0 s	60.00nm		5.6mb
LKO	73.10	78 P	12 40.08	-1.1
	1.0 s	27.00nm		5.2mb
LIC	73.16	82 P	12 40.50	-1.0
	1.1 s	31.00nm		5.2mb
TIC	73.23	81 P	12 40.94	-1.0
	1.0 s	31.00nm		5.3mb
KIC	73.46	82 P	12 42.46	-0.8
	0.9 s	40.00nm		5.4mb
YKA	73.82	343 eP	12 42.90	-1.6
	0.8 s	14.20nm		5.0mb
AVE	76.64	54 iP	13 02.50	1.3
		i	13 10.00	24km
IFR	78.54	54 iPd	13 13.00	1.1
MAL	79.93	51 iPd	13 21.00	1.9
TOL	81.03	48 iPd	13 26.00	1.1
	1.2 s	78.13nm		5.6mb
BALM	83.29	334 eP	13 37.30	1.0
		pP	13 44.10	21km
INK	83.54	342 eP	13 37.00	-0.3
	1.1 s	85.00nm		5.8mb
EPF	84.99	46 eP	13 46.00	0.8
	1.3 s	93.85nm		5.9mb
KLU	85.06	333 P	13 45.10	-0.1
LPF	85.20	41 eP	13 46.20	0.2
	1.3 s	65.00nm		5.7mb
TOA	85.40	334 eP	13 47.40	0.6
MBC	85.45	351 ePc	13 47.00	0.2
	1.0 s	80.00nm		5.9mb
MFF	85.46	42 eP	13 47.90	0.5
	1.1 s	36.65nm		5.5mb
LFF	85.69	44 eP	13 48.80	0.3
	1.1 s	56.15nm		5.7mb
FLN	85.74	40 eP	13 49.10	0.4
	1.0 s	23.00nm		5.4mb
LDF	85.93	40 eP	13 50.00	0.3
LPO	85.94	44 eP	13 50.10	0.3
	0.2 s	18.80nm		5.4mb
RJF	86.30	44 eP	13 51.30	-0.3
LSF	86.51	43 eP	13 52.40	-0.2
PMR	86.54	333 eP	13 52.80	0.4
SLKM	86.70	332 eP	13 53.30	0.0
		pP	14 00.80	24km
TCF	86.98	43 eP	13 54.40	-0.5
	1.3 s	25.25nm		5.3mb
FBA	87.07	336 ePc	13 55.70	0.7
	1.8 s	143.60nm		5.9mb
MAF	87.21	43 eP	13 55.60	-0.4
BGF	87.46	43 eP	13 56.90	-0.3
AVF	87.85	43 eP	13 58.20	-0.8
	0.9 s	16.40nm		5.3mb
RSO	87.89	331 eP	13 58.70	-0.5
SSF	88.00	42 eP	13 59.00	-0.8
	0.9 s	11.45nm		5.2mb
SMF	88.15	43 eP	13 59.90	-0.6
	1.0 s	32.00nm		5.6mb
LOR	88.28	42 eP	14 00.40	-0.7
	0.8 s	9.40nm		5.2mb
PDB	88.41	330 P	14 00.40	-1.0
DAG	88.76	11 eP	14 01.00	-1.8
	1.3 s	63.46nm		5.8mb
DOU	89.26	40 P	14 06.00	0.3
SVW	89.41	332 ePc	14 06.30	0.0
LWR	89.48	47 eP	14 06.90	0.0
	1.3 s	43.30nm		5.6mb
FRF	89.61	46 eP	14 07.40	-0.1
	1.1 s	53.70nm		

05d 05h

LPL	0.8s	15.90nm	5.3mb	LBFM	62.20 323 P	30 44.90	-0.2	INK	0.6s	6.50nm	4.8mb
LPG	89.96	44 eP	14 09.10	SES	63.14 336 eP	30 50.00	-0.9	SPA	83.57 342 iPc	42 19.20	0.4
LPG	1.0s	24.00nm	5.4mb	FFC	63.74 344 eP	30 54.00	-0.7	TOA	84.24 180 iPd	42 29.50	33kmX
HAU	89.97	44 eP	14 06.50	NEW	1.0s 13.00nm	5.0mb	-0.4	MBC	1.0s 15.00nm	5.1mb	0.4
ENN	89.97	44 eP	14 09.10	LON	64.20 332 P	30 57.50	-0.4	PDB	85.44 334 P	42 29.50	1.0
WTS	1.0s	26.00nm	5.4mb	PNT	65.54 328 P	31 05.60	-0.9	DAG	85.46 351 ePc	42 28.80	0.6
FEL	90.06	42 eP	14 09.10	FRB	66.13 331 eP	31 11.00	0.8	IMA	0.6s 16.00nm	5.4mb	-0.4
GRF	0.8s	8.05nm	5.0mb	LKO	0.9s 21.00nm	5.2mb	0.2	WRA	88.47 330 P	42 42.70	-0.4
MOX	90.20	39 iPc	14 10.50	KIC	69.63 4 eP	31 32.00	0.2	SSE	88.72 11 eP	42 43.50	-0.5
KBA	0.9s	33.00nm	5.6mb	YKA	72.90 78 P	31 52.26	-0.2	LZH	0.8s 12.69nm	5.3mb	0.0
CLL	90.22	46 eP	14 10.10	INX	73.26 82 P	31 54.90	0.3	WRA	89.81 337 P	42 49.50	0.0
KSP	1.2s	59.50nm	5.7mb	KLU	73.85 343 eP	31 55.70	-1.3	WRA	0.9s 5.21nm	4.8mb	0.0
ZST	90.33	42 eP	14 10.20	MBC	83.56 342 eP	32 50.00	0.2	WRA	101.15 49 ePdiff43	54.40	12.8X
MAT	1.0s	10.00nm	5.0mb	TOA	85.11 333 P	32 58.50	0.7	WRA	103.34 45 ePdiff43	53.50	2.1X
ASPA	90.73	42 eP	14 12.40	PDB	85.45 351 ePc	33 00.40	1.3	WRA	103.84 44 ePdiff43	48.50	-5.0X
WRA	0.9s	27.85nm	5.6mb	IMA	1.0s 20.00nm	5.3mb	0.5	WRA	108.24 34 ePdiff44	09.00	-3.8X
WRA	90.93	38 eP	14 14.00	WB2	85.45 334 P	33 00.40	0.9	WRA	137.81 225 iPKPd	49 16.20	-0.6
WRA	0.9s	38.00nm	5.7mb	WRA	88.48 330 P	33 14.10	0.0	WRA	0.8s 5.30nm	5.3mb	-2.4X
WRA	91.15	42 eP	14 14.00	WRA	89.81 337 P	33 21.00	0.5	WRA	0.5s 4.10nm	4.1mb	0.0
WRA	93.45	41 e(P)	14 26.70	WRA	0.8s 4.74nm	4.8mb	-1.3	WRA	149.48 328 PKP	49 40.00	3.6X
WRA	93.78	40 eP	14 27.50	WRA	139.84 230 ePKP	39 50.20	-1.3	WRA	1.0s 12.00nm	12.00nm	4.2X
WRA	94.68	43 eP	14 30.50	WRA	139.85 230 PKP	39 52.00	0.5	WRA	149.84 358 iPKPc	49 41.20	4.2X
WRA	0.9s	6.90nm	5.1mb	WRA	1.0s 2.90nm	2.90nm	0.5	WRA	1.5s 43.00nm	43.00nm	0.0
WRA	94.70	39 eP	14 31.00	WRA	149.49 328 PKPc	40 11.70	4.3X	WRA	i 49 52.00	49 52.00	0.0
WRA	96.76	40 eP	14 41.00	WRA	1.0s 12.00nm	12.00nm	0.7	WRA	pP 50 03.00	50 03.00	0.0
WRA	97.25	42 iP	14 43.00	WRA	GKN 151.93 36 PKP	40 12.08	0.7	WRA	sP 50 13.00	50 13.00	0.0
WRA	135.36	318 ePKP	20 28.00	WRA	KKN 152.46 35 PKP	40 11.60	-0.6	WRA	S.D. = 1.0 on 43 of 51 obs.		
WRA	137.72	225 iPKPc	20 33.70	WRA	DMN 152.50 36 PKP	40 12.74	0.4	WRA	? APR 05, 1991 05h 29m 55.79±2.00s		
WRA	1.3s	31.40nm	31.40nm	WRA	PKI 152.70 35 PKP	40 12.72	0.0	WRA	12.127 N ±27.6km 89.589 W ±54.8km		
WRA	139.68	230 PKP	20 37.00	WRA	GUN 152.71 34 PKP	40 11.92	-0.8	WRA	DEPTH = 33.0km (normal)		
WRA	0.7s	8.40nm	8.40nm	WRA	S.D. = 0.7 on 37 of 38 obs.			WRA	-4.0mb (1 obs.)		
WRA	139.92	17 iPKPd	20 38.80	WRA	APR 05, 1991 05h 29m 53.01±0.32s			WRA	OFF COAST OF CENTRAL AMERICA (76)		
WRA	143.81	342 ePKP	20 43.00	WRA	5.799 S ± 6.9km 77.214 W ±10.5km			WRA	Felt (11) at San Salvador, El		
WRA	144.21	348 ePKP	20 44.00	WRA	DEPTH = 33.0km (normal)			WRA	Sol Salvador.		
WRA	144.74	350 PKP	20 45.00	WRA	5.0mb (14 obs.)			WRA	SJAS 1.59 15 iPd	30 21.70	-0.3
WRA	146.18	237 ePKP	20 50.00	WRA	NORTHERN PERU (111)			WRA	VSS 1.64 12 iPd	30 23.00	0.2
WRA	146.43	230 ePKP	20 50.70	WRA	HUA 6.47 163 iP	31 26.30	-2.6	WRA	LFU 1.68 16 iPd	30 23.50	0.2
WRA	146.45	4 PKPc	20 50.00	WRA	ARE 11.99 153 eP	32 46.00	1.1	WRA	CUSS 1.81 349 iPd	30 29.00	3.8X
WRA	146.87	44 ePKP	20 56.00	WRA	ZOBO 13.70 140 eP	33 10.00	2.1	WRA	YKA 53.39 346 eP	39 13.90	-0.3
WRA	147.02	346 ePKP	20 51.00	WRA	LPB 13.91 141 P	33 19.00	8.4X	WRA	0.6s 1.00nm	1.00nm	4.0mb
WRA	148.34	212 ePKP	20 55.00	WRA	CNCB 14.19 141 P	33 17.00	2.6	WRA	INK 62.90 343 eP	40 21.00	0.3
WRA	149.42	328 ePKP	20 54.50	WRA	CCH 15.80 138 P	33 35.30	0.2	WRA	GTA 127.99 351 iPd	46 00.60	16.5X
WRA	149.82	332 ePKP	20 55.50	WRA	SDV 15.99 24 eP	33 38.80	1.3	WRA	WB2 137.16 254 ePKP	49 18.30	0.0
WRA	149.85	358 ePKP	20 56.50	WRA	VAO 33.80 123 (P)	36 33.00	-1.5	WRA	0.4s 8.60nm	8.60nm	0.0
WRA	151.32	349 PKP	20 57.50	WRA	PRM 39.96 353 P	37 26.50	0.4	WRA	S.D. = 0.3 on 6 of 8 obs.		
WRA	152.07	36 PKP	20 59.48	WRA	JSC 40.04 355 P	37 27.20	0.4	WRA	APR 05, 1991 05h 38m 17.89±0.89s		
WRA	152.60	35 PKP	21 00.08	WRA	BLA 42.89 356 P	37 51.00	0.8	WRA	29.085 N ± 5.1km 51.345 E ± 3.7km		
WRA	152.64	36 PKP	21 00.34	WRA	0.8s 6.71nm	6.71nm	4.4mb	WRA	DEPTH = 34.8 ± 9.5 km		
WRA	152.84	35 PKP	21 00.44	WRA	OLY 43.22 343 P	37 52.00	-0.8	WRA	4.9mb (19 obs.)		
WRA	152.85	34 PKP	21 00.82	WRA	TUL 45.01 339 ePc	38 07.30	0.0	WRA	SOUTHERN IRAN (353)		
WRA	153.05	337 ePKP	21 00.00	WRA	0.8s 18.40nm	18.40nm	5.0mb	WRA	Felt at Borazjan.		
WRA	153.76	62 ePKP	21 01.00	WRA	FVM 45.26 345 P	38 08.60	-0.7	WRA	BBU 2.97 196 iPn	39 05.80	2.2
WRA	159.11	350 PKP	21 09.00	WRA	ALO 49.01 328 eP	38 39.00	0.1	WRA	RYD 6.06 225 iPd	39 48.10	0.5
WRA	S.D. = 0.8 on 165 of 175 obs.			WRA	0.9s 15.76nm	15.76nm	5.0mb	WRA	KER 6.37 327 eP	40 05.00	13.0X
WRA	APR 05, 1991 05h 20m 24.01±0.47s			WRA	ANMO 49.01 328 P	38 38.40	-0.5	WRA	TEH 6.63 0 ePc	39 56.50	0.8
WRA	5.773 S ± 11.8km 77.146 W ± 12.4km			WRA	0.9s 56.72nm	56.72nm	5.6mb	WRA	TAB 9.89 336 eP	40 52.00	11.1X
WRA	DEPTH = 33.0km (normal)			WRA	GAC 51.29 2 eP	38 55.50	-0.4	WRA	MDSJ 13.28 285 P	41 32.20	5.6X
WRA	4.9mb (12 obs.)			WRA	GOL 52.20 333 P	39 03.20	-0.1	WRA	SRAT 13.30 216 ePc	41 25.70	-1.4
WRA	NORTHERN PERU (111)			WRA	0.8s 4.46nm	4.46nm	4.5mb	WRA	DHJN 13.46 214 ePc	41 27.40	-1.8
WRA	JSC 40.02 355 P	27 57.80	0.2	WRA	GLA 52.60 320 P	39 06.80	0.7	WRA	QUE 13.62 82 eP	41 31.80	0.6
WRA	GBTN 41.75 351 P	28 11.20	-0.6	WRA	MSU 54.73 327 P	39 22.40	0.5	WRA	KFNJ 13.79 285 P	41 32.70	-0.5
WRA	BLA 42.87 356 P	28 22.00	1.0	WRA	0.9s 11.62nm	11.62nm	4.9mb	WRA	JVI 14.08 286 eP	41 34.00	-3.1X
WRA	0.8s 3.36nm	3.36nm	4.1mb	WRA	DAU 55.62 329 P	39 28.60	0.2	WRA	HOL 14.24 275 eP	41 38.66	-0.5
WRA	OLY 43.21 343 P	28 22.70	-1.0	WRA	TNP 57.33 323 P	39 41.20	0.6	WRA	PRNI 14.26 279 eP	41 38.00	-1.5
WRA	ALO 49.02 328 eP	29 10.00	0.0	WRA	BONR 57.91 322 P	39 46.20	1.5	WRA	BADA 14.34 272 eP	41 40.66	0.2
WRA	0.9s 12.60nm	12.60nm	4.9mb	WRA	KVN 58.48 323 P	39 48.70	0.1	WRA	MBH 14.37 277 eP	41 45.00	4.1X
WRA	ANMO 49.02 328 P	29 10.00	0.0	WRA	LRM 60.23 332 eP	40 00.60	0.0	WRA	GAR 18.54 53 eP	42 32.30	-1.5
WRA	0.9s 45.17nm	45.17nm	5.5mb	WRA	ORV 60.86 322 P	40 05.40	0.7	WRA	ARO 19.18 206 eP+	42 43.50	1.8
WRA	GOL 52.21 333 P	29 34.40	0.1	WRA	SCH 61.02 7 eP	40 05.00	-0.6	WRA	BOM 22.05 113 iPKPd	43 08.50	-2.8
WRA	0.7s 3.03nm	3.03nm	4.4mb	WRA	SES 63.14 336 ePc	40 19.40	-0.4	WRA	NDI 22.65 85 iPc	43 18.00	0.8
WRA	MSU 54.74 327 P	29 53.50	0.5	WRA	FFC 63.75 344 eP	40 23.00	-0.7	WRA	1.0s 95.00nm	95.00nm	5.2mb
WRA	RSSD 55.26 337 P	29 55.80	-0.9	WRA	1.1s 22.00nm	22.00nm	5.2mb	WRA	HYB 27.49 109 eP	44 04.40	1.2
WRA	0.9s 8.13nm	8.13nm	4.8mb	WRA	LON 65.53 328 P	40 35.20	-0.3	WRA	OHR 27.58 304 eP	44 04.70	0.9
WRA	BW06 56.57 332 P	30 05.40	-0.8	WRA	PNT 66.12 331 ePd	40 40.00	0.9	WRA	GKN 29.21 84 P	44 18.48	-0.3
WRA	1.0s 6.67nm	6.67nm	4.6mb	WRA	0.9s 21.00nm	21.00nm	5.2mb	WRA	DMN 29.69 85 P	44 23.02	-0.2
WRA	TNP 57.35 323 P	30 12.20	0.5	WRA	FRB 69.66 4 eP	41 00.00	-0.9	WRA	KKN 29.81 84 P	44 24.02	-0.2
WRA	KVN 58.50 323 P	30 21.00	1.2	WRA	LIC 73.03 82 P	41 20.60	-1.6	WRA	PKI 29.96 85 P	44 25.28	-0.4
WRA	LRM 60.24 332 eP	30 31.60	-0.1	WRA	KIC 73.34 82 P	41 22.40	-1.6	WRA	GUN 30.31 84 P	44 28.72	-0.1
WRA	ORV 60.88 322 P	30 36.70	0.9	WRA	0.6s 4.50nm	4.50nm	4.6mb	WRA	KOD 30.81 122 eP	44 34.40	1.3
WRA	YKA 73.85 343 eP	41 24.70	-1.3	WRA	73.85 343 eP	41 24.70	-1.3				

KRA	31.65	320	eP	44	44.10	4.2X	KVN	58.17	323	P	56	39.10	0.3	GKN	151.89	36	PKP	13	32.86	6.4X
			e	44	47.70		ORV	60.54	322	P	56	55.50	0.6		0.7s		22.00nm			
WMO	32.44	53	iPc	44	47.60	0.6	SES	62.84	337	eP	57	10.00	-0.3	KKN	152.42	35	PKP	13	34.36	7.1X
KBA	34.47	312	eP	45	05.00	0.3	FFC	63.47	344	eP	57	13.00	-1.3	DMN	152.46	36	PKP	13	34.48	7.1X
	0.7s		7.70nm			4.7mb		1.1s		12.00nm			4.9mb		0.5s		6.00nm			
SFI	34.68	306	P	45	12.30	6.1X	NEW	63.89	332	P	57	17.10	-0.1	PKI	152.66	36	PKP	13	34.34	6.6X
CLL	36.16	319	ePd	45	19.00	0.3		1.0s		8.75nm			4.0mb	GUN	152.67	34	PKP	13	35.20	7.4X
	1.2s		10.00nm			4.6mb	PNT	65.81	331	eP	57	30.00	0.4		S.D. = 0.8	on 31 of 47 obs.				
NUR	36.18	338	eP	45	18.00	-0.7	FRB	69.47	4	eP	57	50.00	-2.1							
KAF	36.90	341	eP	45	25.00	0.2	YKA	73.57	343	eP	58	14.60	-2.2							
UPP	38.29	333	iP	45	35.80	-0.6		1.1s		2.60nm			4.1mb							
LPG	38.54	308	eP	45	38.70	-0.5	INK	83.29	342	eP	59	09.50	-0.3		5.584 S ±25.1km	76.758 W ±36.0km				
	1.0s		16.00nm			4.8mb	MBC	85.21	351	eP	59	19.00	-0.3		DEPTH = 33.0km (normol)					
LPL	38.56	308	eP	45	38.70	-0.6		1.0s		7.00nm			4.8mb		4.4mb (10 obs.)					
	1.0s		16.00nm			4.8mb	WB2	139.72	230	ePKP	06	09.20	-3.5X		NORTHERN PERU					(111)
HFS	40.05	332	eP	45	50.60	-0.5		0.9s		2.80nm				TUL	44.98	338	eP	10	05.20	0.2
	0.7s		19.00nm			5.0mb	WRA	139.73	230	PKP	06	09.00	-3.7X		1.0s		7.70nm			4.6mb
SMF	40.72	309	eP	45	51.90	-5.0X		0.7s		2.10nm				ALO	49.07	327	eP	10	37.00	-0.3
SOD	41.10	346	iP	46	00.20	0.6	TIY	146.77	346	ePKP	06	24.20	-0.2		0.9s		5.67nm			4.6mb
NB2	41.57	332	P	46	03.00	-0.6	SSE	149.17	328	ePKP	06	28.50	0.2	ANMO	49.07	327	iP	10	38.00	0.7
	0.7s		5.10nm			4.4mb	LZH	149.62	358	ePKP	06	32.50	3.4X		0.8s		3.54nm			4.4mb
KEY	43.03	348	eP	46	16.00	0.6				pPKP	06	43.50		GOL	52.22	332	e(P)	11	01.70	0.3
LZH	44.34	67	iPc	46	28.00	1.3	XAN	151.07	349	PKPd	06	35.00	3.8X		0.5s		1.08nm			4.1mb
	2.0s		68.00nm			5.1mb		S.D. = 1.0	on 23 of 29 obs.					BW06	56.59	331	eP	11	32.70	-0.5
CD2	45.08	74	eP	46	32.40	-0.2									1.1s		2.68nm			4.2mb
GYA	48.64	79	P	47	00.20	-0.5		* APR 05, 1991 05h 53m 39.13± 0.37s						TNP	57.44	323	eP	11	39.00	-0.3
BTQ	48.70	60	eP	47	01.60	0.6		5.774 S ± 9.3km	77.071 W ±11.0km						0.7s		1.11nm			4.0mb
XAN	48.76	69	Pc	47	01.00	-0.5		DEPTH = 33.0km (normol)						SES	63.12	336	eP	12	17.00	-0.7
HHC	49.84	59	P	47	11.00	1.2		4.8mb (10 obs.)						FFC	63.67	344	eP	12	21.00	-0.1
TIY	50.94	63	eP	47	18.20	0.1	NORTHERN PERU								1.1s		13.00nm			5.0mb
IPM	52.92	108	ePc	47	30.30	-2.9								NEW	64.22	331	e(P)	12	24.90	0.0
	1.0s		48.50nm			5.4mb	HUA	6.46	165	iP	55	15.30	0.5		0.9s		2.19nm			4.3mb
BJI	53.44	60	eP	47	37.00	0.4			iS	56	39.00			PNT	66.15	331	eP	12	38.00	0.7
	1.0s		18.00nm			5.0mb	LPB	13.84	141	(P)	57	08.00	12.2X	FRB	69.42	4	eP	12	57.00	-0.4
			PcP	48	44.00		CNCB	14.13	142	eP	57	06.00	6.4X	YKA	73.78	343	eP	13	21.80	-1.7
TIA	54.91	64	eP	47	47.30	-0.2	SDV	15.91	24	eP	57	28.30	5.7X		0.7s		1.70nm			4.2mb
LKO	56.59	262	P	47	59.56	-0.4	PPD	29.69	125	eP	59	43.60	-0.9	INK	83.51	342	eP	14	17.00	0.6
	0.7s		13.00nm			5.1mb	VAO	33.70	124	(P)	00	24.00	4.3X	MBC	85.32	351	eP	14	27.00	1.6
NJ2	57.34	69	Pc	48	04.50	-0.4	CAI	39.70	93	eP	01	10.10	-0.4		1.0s		8.00nm			4.9mb
KIC	57.41	258	P	48	06.44	0.7	JSC	40.03	355	P	01	13.00	0.2	WRA	140.26	229	PKP	21	19.00	-0.2
	0.7s		6.00nm			4.7mb	OLY	43.23	343	P	01	38.90	-0.2		0.5s		0.70nm			
LIC	57.72	258	P	48	08.14	0.2	TUL	45.04	338	eP	01	53.10	-0.5		S.D. = 0.8	on 15 of 15 obs.				
	0.7s		10.50nm			5.0mb		0.8s		7.70nm			4.7mb							
YAK	59.36	32	eP	48	17.60	-1.1	ALO	49.06	328	eP	02	25.40	-0.1		* APR 05, 1991 06h 10m 38.36± 1.13s					
			e	50	25.00			0.9s		9.45nm			4.8mb		36.273 N ± 7.3km	3.413 W ±11.8km				
SSE	59.52	69	Pc	48	20.00	-0.1	ANMO	49.06	328	P	02	26.00	0.5		DEPTH = 10.0km (geophysicist)					
	1.0s		12.00nm			5.0mb		0.8s		17.72nm			5.1mb	STRAIT OF GIBRALTAR						(385)
MBC	74.76	358	eP	49	46.50	-9.1X	GOL	52.24	332	P	02	49.70	0.0		mbLg 2.9 (MDD).					
	1.0s		12.00nm			4.8mb	TPC	54.12	320	eP	02	53.00	-10.4X	EGUA	0.57	348	eP	10	49.00	-1.0
FRB	76.16	337	eP	50	04.00	0.2	MSU	54.79	326	P	03	08.90	0.4		eS			10	52.00	
SCH	81.05	329	eP	50	32.00	1.4	RSSD	55.29	337	P	03	12.20	0.1	MAL	0.92	300	ePn	10	56.50	0.5
INK	82.84	2	eP	50	40.00	0.5		1.0s		4.07nm			4.4mb		iSg			11	09.40	
YKA	88.05	354	eP	51	06.00	0.4	GSC	55.36	321	eP	03	13.00	0.5	AFC	0.99	354	eP	10	57.20	0.0
	1.2s		5.70nm			4.7mb	SBB	55.63	319	eP	03	14.00	-0.5		eS			11	04.30	
FFC	93.43	345	eP	51	32.00	1.2	CLC	56.19	321	eP	03	28.00	9.6X	ECOG	1.01	353	eP	10	57.50	-0.1
	0.8s		8.00nm			5.2mb	BW06	56.61	332	P	03	20.00	-1.6		eS			11	04.00	
WRA	93.64	111	P	51	32.00	-0.2	ISA	56.65	320	eP	03	21.00	-0.8	EJIF	1.67	277	eP	11	13.30	5.5X
	0.7s		1.90nm			4.6mb	TNP	57.40	323	P	03	27.30	0.1		eS			11	34.10	
WB2	93.65	111	eP	51	32.70	0.4		0.8s		2.45nm			4.3mb	EHUE	1.67	23	eP	11	08.50	0.6
	0.4s		3.10nm			5.1mb	KVN	58.55	323	P	03	35.00	-0.2	EHOR	2.13	317	eP	11	14.50	0.0
CCH	121.96	267	PKP	57	22.80	11.6X	ORV	60.93	322	P	03	51.00	0.5		eS			11	39.80	
	S.D. = 1.0	on 57 of 67 obs.					SES	63.17	336	eP	04	05.00	-1.2	IFR	3.09	208	iPn	11	28.00	-0.2
							NEW	64.24	331	P	04	13.30	0.1		iSn			12	02.00	
								0.9s		7.68nm			4.8mb		S.D. = 0.6	on 7 of 8 obs.				
							PNT	66.16	331	eP	04	26.00	0.4							
								0.7s		6.00nm			4.8mb							
							FRB	69.63	4	eP	04	47.00	0.1		? APR 05, 1991 06h 31m 51.83± 1.02s					
							LKO	72.83	78	P	05	07.16	0.0		60.357 N ± 7.8km	5.247 E ±12.5km				
							KIC	73.19	82	P	05	09.00	-0.3		DEPTH = 10.0km (geophysicist)					
							YKA	73.87	343	eP	05	11.10	-1.1		SOUTHERN NORWAY					(535)
								0.6s		2.80nm			4.4mb		MD 1.1 (BER).					
							INK	83.59	342	eP	06	06.00	1.0							
							MBC	85.46	351	eP	06	15.00	0.7	EGD	0.09	187	ePg	31	54.43	0.1
								1.0s		14.00nm			5.1mb		eSg			31	56.34	
							DAG	88.67	11	iPc	06	31.00	1.1	SUE	0.74	341	eP	32	06.19	-0.2
								0.7s		6.85nm			5.1mb		eS			32	16.46	
							WB2	139.90	230	ePKP	13	02.10	-4.6X	HYA	0.93	29	eP	32	09.91	0.3
								0.4s		4.20nm					eS			32	22.33	
							WRA	139.90	230	PKP	13	05.00	-1.7	NRA0	3.13	80	Pn	32	41.90	-0.2
								0.4s		2.70nm					Lg			33	35.50	
							GTA	146.40	4	PKP	13	18.00	1.2		S.D. = 0.4	on 4 of 4 obs.				
										pPKP	13	30.00								
							TIY	147.05	346	ePKP	13	20.40	1.8		* APR 05, 1991 06h 45m 54.81± 0.41s					
							SSE	149.53	328	PKP	13	26.50	3.9X		5.548 S ± 8.8km	77.412 W ±10.8km				
							LZH	149.82												

05d 06h

TUNG	4.23 346 P	47 03.30	4.4X
	S	47 56.50	
VC1	4.98 348 eP	47 12.00	2.3X
CAYA	5.62 354 eP	47 12.00	-6.8X
COTA	5.92 351 eP	47 16.00	-7.0X
HUA	6.77 162 ePc	47 28.40	-6.5X
	eS	48 40.30	
ARE	12.30 152 e(P)	49 07.00	16.1X
ZOBO	14.02 140 P	49 07.00	-6.9X
LPB	14.23 141 P	49 18.00	1.5
CNCB	14.51 141 P	49 22.00	1.6
SDV	15.85 25 eP	49 38.60	1.2
CCH	16.12 138 P	49 41.00	0.0
LLAV	19.10 34 iP	50 18.80	0.9
JSC	39.78 355 P	53 27.00	0.6
OLY	42.92 343 P	53 52.10	-0.1
TUL	44.70 339 eP	54 07.00	0.4
	1.0s 16.30nm		4.9mb
ALO	48.69 328 eP	54 38.80	0.5
	1.0s 10.00nm		4.8mb
ANMO	48.69 328 P	54 39.80	1.5
	0.9s 29.41nm		5.3mb
GOL	51.89 333 P	55 03.10	0.4
	0.9s 2.84nm		4.2mb
TPC	53.73 320 eP	55 18.00	1.8
MSU	54.41 327 P	55 21.90	0.5
RSSD	54.95 337 P	55 25.80	0.5
	1.0s 6.78nm		4.6mb
GSC	54.97 321 eP	55 26.00	0.6
SBB	55.24 319 eP	55 28.00	0.7
CLC	55.80 321 eP	55 31.00	-0.3
BW06	56.25 332 P	55 33.00	-1.7
	1.0s 5.00nm		4.5mb
TNP	57.01 323 P	55 40.40	0.2
	0.9s 3.91nm		4.4mb
BONR	57.59 322 P	55 46.00	1.7
KVN	58.17 323 P	55 48.60	0.4
MCMT	59.36 331 eP	55 56.70	0.2
ORV	60.54 322 P	56 05.30	1.0
SCH	60.80 7 eP	56 05.00	-0.8
LBFM	61.87 323 P	56 13.40	-0.2
SES	62.83 337 eP	56 19.00	-0.6
FFC	63.45 344 eP	56 23.00	-0.6
	1.1s 15.00nm		5.0mb
NEW	63.88 332 P	56 26.60	0.0
	0.9s 10.09nm		4.9mb
PNT	65.80 331 eP	56 39.00	0.1
	0.9s 14.00nm		5.1mb
FRB	69.43 4 eP	57 00.00	-1.3
YKA	73.55 343 eP	57 24.10	-2.0
	0.5s 2.40nm		4.4mb
INK	83.27 342 ePc	58 19.00	-0.1
MBC	85.18 351 ePc	58 28.70	0.1
	0.9s 12.00nm		5.1mb
DAG	88.52 11 iPc	58 44.40	-0.5
	0.9s 8.40nm		5.1mb
WRA	139.79 230 PKP	05 20.00	-2.2X
	0.4s 1.30nm		
GTA	146.20 4 ePKP	05 31.40	-1.5
TIY	146.75 346 ePKP	05 34.40	0.6
SSE	149.16 328 PKPc	05 40.00	2.3X
NJ2	149.56 332 PKPd	05 40.60	2.4X
LZH	149.59 358 ePKP	05 42.50	4.1X
XAN	151.05 349 PKP	05 44.60	4.1X
GKN	151.90 35 PKP	05 40.48	-1.7
KKN	152.43 35 PKP	05 41.42	-1.6
DMN	152.47 35 PKP	05 40.40	-2.7X
PKI	152.67 35 PKP	05 41.46	-2.0
GUN	152.67 34 PKP	05 41.58	-1.9

S.D. = 1.1 on 40 of 53 obs.

? APR 05, 1991 06h 54m 12.21 ± 2.10s
5.399 S ± 52.4km 77.052 W ± 30.6km
DEPTH = 33.0km (normal)
4.7mb (9 obs.)

NORTHERN PERU (111)

TUL	44.70 338 ePc	02 24.10	0.1
	1.0s 10.20nm		4.6mb
ALO	48.76 328 eP	02 56.00	-0.2
	1.0s 6.75nm		4.6mb
ANMO	48.76 328 P	02 56.70	0.5
	0.9s 18.91nm		5.1mb
MSU	54.49 326 P	03 39.90	0.6
RSSD	54.96 336 P	03 43.50	0.8
	1.0s 4.47nm		4.5mb
TNP	57.11 323 P	03 57.40	-0.9

KVN	0.8s 1.72nm	4.1mb	
MCMT	58.26 323 P	04 05.80	-0.5
ORV	59.40 331 eP	04 14.50	0.3
SES	60.65 322 P	04 23.10	0.6
FFC	62.84 336 eP	04 36.00	-1.1
	63.41 344 eP	04 40.00	-0.7
	1.1s 12.00nm		4.9mb
NEW	63.92 331 P	04 44.20	-0.1
	0.9s 5.48nm		4.7mb
PNT	65.85 331 eP	04 57.00	0.4
	0.8s 6.00nm		4.7mb
KIC	73.12 82 P	05 42.00	0.1
INK	83.24 342 eP	06 36.00	-0.3
MBC	85.10 351 ePc	06 46.00	0.4
	1.0s 8.00nm		4.9mb
LZH	149.45 359 iPKPc	13 59.00	3.4X
	1.5s 31.00nm		

S.D. = 0.6 on 16 of 17 obs.

& APR 05, 1991 07h 02m 03.52s
58.801 N 152.991 W
DEPTH = 64.5km
KODIAK ISLAND REGION (13)
<AEIC>.

CDD	0.36 291 eP	02 14.19	-0.6
	eS	02 22.79	
SYI	0.37 121 iP	02 14.14	-0.6
	eS	02 22.12	
AUI	0.58 337 eP	02 16.31	-0.6
	eS	02 26.06	
AUE	0.59 341 eP	02 16.72	-0.3
	eS	02 26.02	
AUH	0.61 338 eP	02 17.08	-0.2
MCNL	0.80 300 iP	02 18.77	-0.7
	eS	02 29.52	
XLV	0.93 44 eP	02 20.53	-0.5
HOM	1.10 38 eP	02 23.08	-0.3
CNPM	1.16 50 eP	02 23.27	-0.9
	eS	02 39.17	
PDB	1.17 329 eP	02 23.12	-1.1
	eS	02 37.92	
NNL	1.52 34 eP	02 28.83	-0.1
RED	1.63 4 eP	02 29.19	-1.4
	eS	02 49.71	
RSO	1.67 4 eP	02 30.44	-0.8
	eS	02 51.33	
RS2	1.67 4 eP	02 30.26	-1.0
	eS	02 51.82	
RDW	1.69 3 eP	02 30.62	-0.9
	eS	02 51.27	
REF	1.70 5 eP	02 30.63	-1.0
RDN	1.72 4 eP	02 31.20	-0.7
	eS	02 52.09	
NCT	1.77 1 eP	02 31.75	-0.8
RDT	1.80 9 eP	02 31.83	-1.2
	eS	02 53.51	
DFR	1.80 5 eP	02 32.24	-0.8
NKA	2.14 24 eP	02 38.07	0.5
SLKM	2.22 38 eP	02 36.95	-1.7
SEW	2.23 53 eP	02 36.53	-2.3
CKL	2.43 7 eP	02 40.79	-0.9
SPU	2.43 11 eP	02 40.76	-1.0
BGL	2.49 7 eP	02 41.70	-0.9
CRP	2.51 9 eP	02 42.19	-0.7
NCG	2.64 9 eP	02 43.88	-0.9
SUA	2.90 22 eP	02 47.31	-1.0
PMS	3.00 34 iP	02 48.20	-1.5
KNIM	3.09 58 eP	02 48.20	-2.8
PWA	3.25 27 eP	02 51.95	-1.2
SKT	3.27 12 eP	02 51.81	-1.7
PLRM	3.40 33 eP	02 52.55	-2.7
KNK	3.47 39 eP	02 53.67	-2.6
GHO	3.60 32 eP	02 56.01	-2.2
GLI	3.63 52 eP	02 54.68	-3.9
CUT	3.86 19 eP	02 59.82	-1.8
VLZ	4.08 52 eP	03 01.98	-2.8

39 obs. associated

APR 05, 1991 07h 09m 12.90 ± 0.67s
38.298 N ± 5.5km 22.655 E ± 6.7km
DEPTH = 13.4 ± 3.5 km
GREECE (364)
ML 3.2 (ATH).

AGG	0.77 341 ePd	09 27.36	-0.2
	eS	09 39.12	

ATH	0.90 111 eP	09 31.20	1.4
	eS	09 46.10	
VLI	1.59 172 eP	09 39.40	-1.4
VLS	1.63 266 eP	09 42.10	0.8
LIT	1.80 356 ePd	09 44.04	0.2
	eS	10 08.92	
PAIG	1.81 26 ePc	09 44.12	0.2
	eS	10 08.24	
KZN	2.12 341 eP	09 48.40	-0.1
OUR	2.28 26 ePd	09 50.76	0.1
SOH	2.58 12 ePd	09 53.48	-1.5
	iS	10 26.76	
GRG	2.66 356 ePc	09 56.32	0.1
	eS	10 29.60	
FNA	2.67 339 ePc	09 55.68	-0.7
	eS	10 30.16	
KNT	2.87 4 ePd	09 59.40	0.4
	eS	10 34.32	
SRS	2.91 14 ePd	09 58.92	-0.7
	eS	10 35.80	
VAY	3.02 359 eP	10 01.80	0.7
OHR	3.15 334 eP	10 04.20	1.1
MMB	3.39 14 eP	10 07.00	0.5
RZN	3.74 24 iPc	10 11.00	-0.6

S.D. = 0.9 on 17 of 17 obs.

? APR 05, 1991 07h 31m 37.29 ± 1.22s
8.881 S ± 20.5km 109.748 W ± 27.5km
DEPTH = 10.0km (geophysicist)
4.7mb (6 obs.)
NORTHERN EASTER I. CORDILLERA (694)

ZOBO	41.22 105 P	39 24.80	-0.1
LPB	41.27 105 P	39 28.00	2.8X
CNCB	41.41 105 P	39 27.80	1.3
BAR	41.85 351 eP	39 30.00	0.8
GLA	41.98 354 eP	39 32.00	1.7
PLM	42.54 351 eP	39 36.00	0.9
TPC	43.17 352 eP	39 42.00	2.0
CCH	43.21 106 P	39 42.40	1.5
RVR	43.25 351 eP	39 42.00	1.4
PAS	43.53 350 eP	39 46.00	3.1X
MWC	43.59 350 eP	39 38.00	-5.6X
ALO	43.69 4 eP	39 43.00	-1.4
	1.0s 2.50nm		4.0mb
SBB	44.00 350 eP	39 47.00	0.2
GSC	44.44 352 eP	39 51.00	0.6
ISA	45.06 350 eP	39 56.00	0.7
CLC	45.07 351 eP	39 56.00	0.6
PRI	45.95 348 eP	40 04.30	1.9
TUL	46.45 16 ePc	40 03.90	-2.3
	0.8s 7.60nm		4.8mb
CMB	47.72 349 eP	40 17.00	0.7
PPD	57.51 110 (P)	41 26.00	-3.5X
PNT	58.59 352 eP	41 36.00	-0.6
SES	59.04 359 eP	41 38.00	-1.7
FFC	63.70 5 eP	42 08.50	-2.6
	1.0s 8.00nm		4.9mb
YKA	71.26 358 eP	42 56.00	-2.4
	1.1s 2.10nm		4.2mb
INK	78.02 351 eP	43 40.00	-1.6
	pP	44 11.00	122kmX
FRB	78.85 17 eP	43 41.00	-0.8
SPA	81.18 180 iPc	43 53.90	-0.6
	1.0s 16.00nm		5.0mb
MBC	85.17 358 eP	44 14.00	-0.4
	1.0s 9.00nm		4.9mb
GAR	150.01 360 ePKP	51 29.30	4.3X

S.D. = 1.5 on 24 of 29 obs.

* APR 05, 1991 08h 05m 52.00 ± 0.67s
11.832 S ± 14.0km 158.670 E ± 18.8km
DEPTH = 84.6km (5 depth phases)
5.1mb (5 obs.)
SOLOMON ISLANDS REGION (195)

HNR	2.69 28 iPc	06 33.60	-0.5
	iS	06 53.00	
SVO	2.89 23 iP	06 37.60	0.8
	iS	06 58.00	
DZM	12.60 145 iPd	09 06.90	17.3X
	iS	11 19.90	
PKI	80.99 301 P	18 00.00	0.4
SVW	81.14 21 P	17 59.50	0.2
	0.7s 29.07nm		5.3mb
	pP	18 21.50	82km
SLKM			

PMR	83.80	22 P	18 12.10	-0.7		eS	24 37.00	SSE	59.45	69 Pc	25 29.50	-0.7
FBA	86.33	20 P	18 25.60	0.1	POO	23.05 112 iPd	20 31.80 0.0		1.2s	17.00nm		5.1mb
	0.7s	10.17nm	5.0mb			1.2s	75.00nm		5.0mb			
PAS	90.98	55 eP	18 48.70	86km	AAE	23.26 213 eP	20 36.20 2.0	CN2	59.46	54 P	25 29.50	-0.5
ISA	91.09	54 eP	18 46.00	-2.7X	MLR	25.85 316 ePc	21 03.00 4.5X		1.0s	10.00nm		4.9mb
SBB	91.38	55 eP	18 53.00	3.0X	CVO	25.88 317 eP	21 01.50 2.8	Z	16s	1.30um		5.2MsZx
CLC	91.82	54 eP	18 52.00	0.0	CMP	26.29 315 ePc	21 03.00 0.5	MAT	70.95	58 eP	26 43.00	-1.4
		e	19 15.00	84km	VAY	26.37 305 eP	21 04.70 1.5		1.0s	8.00nm		4.7mb
PLM	91.86	56 eP	18 53.00	0.6	SKO	27.38 306 eP	21 16.50 4.0X	MBC	74.71	358 eP	27 06.00	0.2
		e	19 16.00	84km	HYB	27.47 109 eP	21 13.50 0.0		0.9s	6.00nm		4.6mb
TNP	92.63	52 eP	18 55.30	-0.6	OHR	1.0s	60.00nm		5.2mb			
	1.0s	7.50nm	5.0mb		GAB	27.59 304 eP	21 12.50 -1.9	FRB	76.13	337 eP	27 14.00	-0.1
		pP	19 19.00	87km		28.66 117 Pc	21 24.20 0.0	SCH	81.03	329 eP	27 41.00	0.1
TPC	92.69	56 eP	18 56.00	0.0	GKN	0.7s	12.30nm	INK	82.78	2 eP	27 50.00	0.3
INX	92.96	20 eP	19 06.00	9.5X		29.16 84 P	21 28.12 -0.7	IMA	83.16	10 ePc	27 53.50	1.5
GLA	93.47	57 eP	19 01.00	1.4		0.9s	100.00nm		0.9s	9.00nm		4.9mb
NEW	94.91	42 P	19 05.70	-0.2	DMN	29.64 85 P	21 32.72 -0.6	FBA	85.08	8 ePc	28 03.00	1.5
	0.8s	11.25nm	5.3mb		KKN	29.76 84 P	21 33.70 -0.6	YKA	88.00	354 eP	28 15.90	0.1
YKA	98.89	28 eP	19 22.90	-0.6		0.7s	102.00nm		1.2s	7.30nm		4.8mb
	0.6s	1.10nm	4.6mb		PKI	29.91 85 P	21 35.00 -0.8	PMR	88.07	10 eP	28 17.50	1.3
S.D. = 0.6 on 15 of 19 obs.					GUN	30.26 84 P	21 38.36 -0.5		1.0s	20.00nm		5.3mb
						0.9s	174.00nm		FFC	93.39 345 eP	28 42.00	0.9
* APR 05, 1991 09h 13m 46.35±1.10s					KOD	30.79 122 eP	21 44.10 0.5		1.2s	18.00nm		5.4mb
43.977 N ±16.7km 149.583 E ±11.8km					ZST	32.48 315 eP	22 03.50 5.8X	WRA	93.62	111 P	28 42.00	-0.6
DEPTH = 33.0km (normal)					KSP	34.07 319 eP	22 10.30 -1.2		1.1s	1.90nm		4.4mb
4.3mb (3 obs.)						e	22 14.40	WB2	93.63	111 eP	28 41.90	-0.7
KURIL ISLANDS REGION (222)					CLL	36.15 319 e(P)	22 30.00 0.8		0.4s	2.50nm		5.0mb
					UPP	38.26 333 iP	22 45.70 -1.0	ASPA	95.09	114 iPd	28 49.10	-0.2
					HFS	40.02 332 eP	23 00.50 -0.9		1.2s	5.60nm		4.9mb
						0.4s	10.10nm		S.D. = 1.1 on 68 of 81 obs.			
KUSJ	3.65	258 iP	14 40.70	-1.2		Z	16s	0.33um				
		eS	15 18.80				LR	39 34.00				
HOIJ	4.87	253 P	15 00.40	1.2	GTA	40.87	62 iPc	23 10.40 1.5				
		eS	15 53.20			1.0s	100.00nm		5.5mb			
ASAJ	5.01	274 P	15 01.90	0.8		Z	14s	1.20um		4.9MsZx		
MRRJ	6.41	259 eP	15 20.50	-0.4		E	14s	1.00um				
		eS	16 29.90				PP	23 15.40				
AOMJ	7.64	247 eP	15 37.80	-0.2			PcP	25 04.20				
		eS	16 56.60				ScP	28 58.20				
OFUJ	7.69	233 eP	15 37.90	-0.9			S	29 23.20				
		S	16 58.20				SS	32 18.00				
MAT	11.42	233 eP	16 30.00	-0.2	SOD	41.06 346 iP	23 10.20 0.4					
	0.7s	4.79nm	4.8mb		NB2	41.54 332 P	23 12.90 -1.0					
		(S)	18 43.00			0.7s	4.40nm		4.3mb			
WMO	43.64	292 P	21 57.50	8.2X	LZH	44.28 67 iPc	23 37.50 0.8					
	Z	16s	1.10um	4.9MsZx		2.0s	86.00nm		5.2mb			
LSA	47.94	273 Pd	22 15.80	-8.3X		Z	20s	0.73um		4.6MsZ		
YKA	54.63	35 eP	23 13.10	-0.5		E	14s	0.62um				
	0.8s	0.50nm	3.6mb				SP	23 49.50				
WRA	65.12	196 P	24 27.00	1.0	CD2	45.02 74 eP	23 42.40 -0.3					
	0.7s	2.00nm	4.3mb		BDT	45.06 94 eP	23 43.20 0.2					
S.D. = 1.0 on 9 of 11 obs.					KMI	45.58 82 Pd	23 57.00 9.7X					
						2.0s	50.00nm		5.1mb			
* APR 05, 1991 09h 15m 28.88±0.92s					KHT	45.74 98 eP	23 49.00 0.6					
29.138 N ±5.5km 51.399 E ±3.8km					LOE	47.37 93 eP	24 01.00 -0.3					
DEPTH = 39.2 ±9.4 km					BTO	48.63 60 P	24 12.00 1.0					
5.1mb (31 obs.) 4.6MsZ (3 obs.)					XAN	48.70 69 P	24 11.00 -0.5					
SOUTHERN IRAN (353)					MHC	49.77 60 eP	24 20.80 1.0					
Felt in the Kongon area.					TIY	50.87 63 eP	24 28.20 0.1					
						Z	20s	0.50um		4.5MsZ		
BBU	3.03	196 ePn	15 40.00	-35.5X		E	20s	0.73um				
DHR	3.04	202 iPd	16 17.30	1.7			S	31 38.00				
		iS	17 10.00									
RYD	6.13	225 iPd	16 58.10	-1.4	SNG	51.16 105 eP	24 24.20 -6.2X					
		iS	18 05.00		IPM	52.09 108 ePc	24 40.40 -3.1X					
KER	6.35	326 eP	17 08.00	5.3X		1.1s	65.10nm		5.5mb			
TEH	6.58	360 eP	17 06.00	0.2	BJI	53.37 60 eP	24 47.00 0.4					
TAB	9.86	336 eP	17 56.00	4.7X		1.0s	21.00nm		5.1mb			
CSTJ	12.90	282 P	18 30.40	-2.0		Z	17s	0.87um		4.9MsZx		
MDSJ	13.31	285 P	18 34.60	-3.2X	BUL	53.70 207 iPc	24 50.80 1.4					
QUE	13.56	82 eP	18 42.20	1.0		2.9s	208.33nm		5.6mb			
		e	21 17.10		WHN	53.97 72 eP	24 51.00 -0.2					
		e(S)	23 13.30		TIA	54.85 64 eP	24 57.40 -0.2					
		e	31 18.30		LKO	56.64 262 P	25 09.50 -1.3					
JVI	14.11	285 eP	18 45.00	-3.2X		0.6s	13.00nm		5.1mb			
HOL	14.28	275 eP	18 49.70	-0.7	NJ2	57.27 69 Pc	25 14.20 -0.8					
PRNI	14.30	279 eP	18 48.00	-2.7	DAG	57.33 345 eP	25 10.00 -4.9X					
MBH	14.41	277 eP	18 54.50	2.3	KIC	57.47 258 P	25 15.76 -0.9					
HLW	17.48	277 eP	19 32.50	1.2		1.0s	26.00nm		5.2mb			
GAR	18.47	53 iP	19 42.00	-1.6	TIC	57.56 259 P	25 16.34 -1.0					
		eS	23 11.00			0.8s	18.00nm		5.2mb			
		e	23 33.00		LIC	57.78 258 P	25 17.90 -0.9					
		i	23 41.00			0.7s	23.50nm		5.4mb			
BBTK	18.67	310 eP	19 48.00	1.9		Z	20s	0.44um		4.6MsZ		
ARO	19.25	206 ePd	19 52.50	-0.6	YAK	59.29 32 iP	25 27.60 -1.1					
BOM	22.03	113 ePKP	20 03.00	-18.6X			e	26 16.00				
NDI	22.59	85 iPc	20 27.50	0.2			e	27 40.00				
	0.8s	70.90nm	5.2mb				e	35 15.00				

05d 10h

LSD 0.36 1 P S 41 47.94
 S 41 44.76 0.0
 S 41 49.17
 PZZ 0.59 183 P S 41 48.56 -0.6
 S 41 56.25
 S.D. = 0.6 on 5 of 5 obs.

• APR 05, 1991 11h 12m 25.25±0.42s
 5.647 S ±12.3km 76.885 W ±18.9km
 DEPTH = 33.0km (normal)
 4.4mb (5 obs.)

NORTHERN PERU (111)

HUA 6.54 166 eP 14 02.20 0.2
 eS 15 18.40
 ZOBO 13.61 142 P 15 38.00 -1.0
 LPB 13.83 142 P 15 41.00 -0.7
 CNCB 14.11 143 eP 15 47.00 1.4
 e 15 53.00
 SIV 18.61 125 P 16 42.20 0.0
 TUL 44.99 338 e(P) 20 39.30 -0.1
 ALQ 49.05 328 eP 21 11.30 -0.2
 1.0s 5.50nm 4.5mb
 ANMO 49.05 328 iP 21 12.00 0.5
 1.0s 3.00nm 4.3mb
 GOL 52.22 332 eP 21 35.40 -0.2
 0.8s 2.68nm 4.3mb
 TNP 57.41 323 eP 22 12.60 -0.8
 SES 63.13 336 eP 22 52.00 0.0
 PNT 66.14 331 eP 23 12.00 0.5
 0.7s 5.00nm 4.7mb
 FRB 69.49 4 eP 23 32.00 -0.1
 YKA 73.80 343 eP 23 56.90 -1.1
 0.6s 1.80nm 4.2mb
 INK 83.53 342 eP 24 51.00 0.2
 MBC 85.37 351 eP 25 01.50 1.5
 MBL 148.71 211 iPKPd 32 22.70 15.0X
 LZH 149.70 359 (PKP) 32 12.50 3.5X
 GKN 151.68 36 PKP 32 00.00 -12.2X
 S.D. = 0.8 on 16 of 19 obs.

• APR 05, 1991 11h 23m 29.95±1.93s
 17.958 S ±15.5km 178.732 W ±10.9km
 DEPTH = 657.4 ± 27.8 km
 4.8mb (16 obs.)

FIJI ISLANDS REGION (181)

DZM 14.52 251 iPc 26 32.00 -0.8
 BRS 27.86 245 iPd 28 32.30 -0.2
 COO 29.48 239 iPd 28 47.50 1.2
 0.5s 23.00nm 5.0mb
 RMO 31.20 248 iPc 29 00.00 -0.8
 PMG 34.17 280 eP 29 26.00 0.5
 CMS 34.73 240 iPd 29 30.40 0.4
 0.9s 50.00nm 5.1mb
 LAT 35.25 284 eP 29 35.80 1.5
 TOO 36.90 231 iPc 29 48.70 1.0
 0.7s 34.00nm 5.0mb
 STK 38.34 241 iPc 30 20.20 20.8X
 0.4s 19.10nm
 WB2 44.31 260 iPc 30 46.20 -0.3
 0.6s 46.80nm 5.1mb
 WRA 44.32 260 P 30 45.00 -1.6
 0.5s 31.50nm 5.0mb
 ASPA 44.48 254 iPd 30 48.00 0.2
 0.6s 158.10nm 5.6mb
 MTN 48.49 269 eP 31 18.00 -0.1
 0.3s 53.00nm 5.4mb
 FORR 49.68 245 eP 31 26.10 -0.5
 0.4s 28.00nm 5.0mb
 KNA 50.16 264 eP 31 30.00 -0.3
 WARB 50.98 251 iPd 31 36.10 0.0
 0.4s 12.00nm 4.6mb
 SYP 76.42 47 eP 34 16.00 0.1
 PAS 77.48 48 eP 34 27.00 5.6X
 MWC 77.60 48 eP 34 23.00 0.7
 PLM 78.00 49 eP 34 24.00 -0.4
 SBB 78.01 47 eP 34 24.00 -0.3
 PEC 78.06 48 P 34 24.00 -0.6
 ISA 78.07 46 eP 34 24.00 -0.6
 CMB 78.09 43 P 34 24.00 0.2
 0.8s 9.20nm 4.4mb
 ORV 78.23 42 P 34 25.00 -0.3
 CLC 78.76 47 eP 34 28.00 -0.2
 TPC 78.96 49 eP 34 29.00 -0.3
 TNP 80.21 45 P 34 35.70 -0.2
 SVW 80.95 11 P 34 40.00 1.1

PMR 82.72 14 P 34 47.40 -0.3
 PNT 84.95 34 eP 35 00.00 1.1
 FBA 85.92 13 P 35 02.20 -1.0
 0.7s 10.17nm 4.6mb
 ALQ 86.37 52 eP 35 06.00 -0.2
 1.0s 3.25nm 4.0mb
 ANMO 86.37 52 P 35 06.80 0.6
 0.9s 3.57nm 4.1mb
 LRM 87.21 40 eP 35 10.80 0.8
 BW06 87.60 44 P 35 11.80 -0.1
 0.8s 6.55nm 4.4mb
 GOL 89.12 48 P 35 19.80 0.8
 GLD 89.25 48 P 35 20.00 0.6
 SES 90.24 36 eP 35 23.00 -0.6
 RSSD 91.81 44 P 35 30.80 -0.4
 0.7s 5.19nm 4.6mb
 INK 92.01 15 eP 35 31.00 -0.3
 YKA 94.50 25 eP 35 42.00 -0.7
 0.5s 0.90nm 4.2mb
 CLL 145.44 347 iPKP 41 59.50 3.3X
 S.D. = 0.7 on 40 of 43 obs.

APR 05, 1991 11h 52m 10.34±0.74s
 6.862 N ± 4.7km 95.208 E ± 6.6km
 DEPTH = 229.8 ± 8.0 km
 5.2mb (24 obs.)

NICOBAR ISLANDS REGION (704)

SNG 5.38 86 eP 53 31 20 0.4
 0.7s 445.21nm 5.6mb
 PSI 5.55 138 iPc 53 34 00 0.9
 IPM 6.22 111 ePc 53 40 70 -0.8
 0.4s 204.90nm 5.5mb
 e 53 59 20
 KLM 7.42 120 ePc 53 57 00 0.1
 0.8s 1167.70nm 6.0mb
 KHT 8.55 23 eP 54 12 40 0.8
 PPI 8.93 144 eP 54 15 20 -1.2
 e(S) 55 48 00
 KGM 9.41 120 ePc 54 22 70 0.1
 NST 10.00 28 eP 54 34 20 4.1X
 BDT 10.96 19 eP 54 42 50 0.1
 KOD 17.86 282 iPd 56 07 30 1.7
 0.9s 72.27nm 5.2mb
 OIZ 18.68 48 iPd 56 15 00 1.3
 0.8s 40.00nm 5.0mb
 SP 57 17 00
 eS 59 31 00
 GBA 18.72 292 Pd 56 15 40 1.3
 0.6s 38.00nm 5.1mb
 HYB 19.35 304 iPc 56 21 30 0.7
 0.8s 100.00nm 5.4mb
 KMI 19.54 21 eP 56 22 50 -0.2
 GYA 22.34 28 P 56 52 00 2.0
 1.0s 100.00nm 5.3mb
 S 00 40 80
 PKI 22.60 337 P 56 51 68 -1.1
 GUN 22.73 338 P 56 52 10 -2.0
 DMN 22.75 336 P 56 52 76 -1.5
 KKN 22.84 337 P 56 53 30 -1.8
 LSA 23.04 351 iPd 56 57 40 0.2
 S 00 50 00
 GKN 23.29 336 P 56 57 84 -1.4
 POO 23.81 301 eP 57 05 00 0.9
 iS 01 45 50
 CD2 25.23 17 iPc 57 17 10 0.0
 1.2s 100.00nm 5.3mb
 NDI 27.57 324 iPc 57 36 50 -1.7
 WHN 29.62 35 eP 58 00 00 3.6X
 XAN 29.87 23 iPc 57 57 50 -1.1
 S 02 36 00
 LZH 30.14 14 iPc 58 00 00 -1.1
 1.5s 37.00nm 4.8mb
 SP 59 11 50
 GTA 32.67 7 iPc 58 22 80 -0.2
 0.7s 60.00nm 5.3mb
 PP 59 11 40
 TIY 34.47 25 eP 58 39 00 0.7
 HHC 36.86 21 eP 58 59 60 1.1
 MBL 36.88 140 eP 58 57 50 -1.2
 0.4s 10.00nm 4.7mb
 WMO 37.40 351 iPc 59 03 00 0.1
 S 04 34 50
 BJI 38.01 26 eP 59 09 50 1.6
 1.0s 18.00nm 4.6mb
 GAR 39.08 329 eP 59 15 80 -1.1
 MEKA 40.24 147 iPc 59 26 70 0.3

0.3s 18.00nm 5.0mb
 MTN 40.71 119 eP 59 28.50 -1.9
 0.3s 67.00nm 5.6mb
 BAL 42.57 152 eP 59 46.00 0.6
 MUN 43.51 154 iPd 59 54.00 1.1
 KLB 43.89 152 iPc 59 56.30 0.3
 NWA0 44.77 153 iPc 00 03.30 0.4
 0.6s 90.00nm 5.3mb
 WARB 44.83 138 iPd 00 03.20 -0.3
 0.4s 7.00nm 4.4mb
 COOL 45.00 148 iPc 00 05.00 0.2
 0.6s 85.00nm 5.3mb
 CN2 45.33 31 eP 00 07.50 0.5
 RKG 45.65 154 eP 00 13.00 3.2X
 0.5s 166.00nm 5.7mb
 WRA 46.82 125 P 00 33.00 13.8X
 0.6s 6.90nm
 WB2 46.83 125 iPd 00 18.00 -1.3
 0.4s 58.60nm 5.3mb
 iS 01 53.40
 ASPA 48.46 130 iPc 00 30.50 -1.4
 0.8s 30.00nm 4.7mb
 iS 07 09.40
 FORR 48.97 142 iPd 00 35.00 -0.6
 0.4s 39.00nm 5.2mb
 STK 58.65 134 iPc 02 04.60 18.7X
 0.9s 8.10nm
 RMO 61.57 125 iPd 02 05.00 -0.8
 TOO 64.40 137 iPd 02 25.00 0.8
 1.0s 39.00nm 5.1mb
 BRS 65.22 124 iPc 02 29.50 -0.1
 COO 65.78 128 eP 02 34.60 1.5
 VRI 70.16 316 eP 03 00.00 0.1
 MLR 70.63 316 ePc 03 04.50 1.6
 BUL 70.73 246 iPd 03 03.30 -0.7
 1.7s 173.08nm 5.5mb
 ZST 76.99 318 eP 03 58.00 18.8X
 e 33 07.10
 HFS 79.86 330 eP 03 53.70 -0.8
 0.4s 1.50nm 4.1mb X
 INK 97.66 16 eP 05 22.00 2.4
 KIC 99.06 278 P 05 27.80 0.8
 YKA 107.15 14 ePKP 10 27.60 17.5X
 0.8s 0.30nm
 PPD 144.36 241 ePKP 11 21.50 0.1
 S.D. = 1.1 on 55 of 62 obs.

APR 05, 1991 13h 40m 23.77±0.48s
 5.714 S ± 6.2km 76.987 W ± 8.6km
 DEPTH = 28.8km (4 depth phases)
 4.8mb (11 obs.) 4.5msz (1 obs.)

NORTHERN PERU (111)

TUNG 4.51 341 P 41 33.00 0.7
 S 42 26.60
 YANA 5.78 344 eP 41 51.70 1.3
 COTA 6.16 347 eP 41 56.00 0.3
 HUA 6.50 165 eP 42 02.10 1.7
 eS 43 19.00
 ZBO 13.62 141 P 43 37.00 -1.1
 1.0s 15.00nm 4.8mb
 Z 20s 1.40um
 i 43 48.50
 S 45 18.00
 LR 47 56.00
 LPB 13.84 142 P 43 52.00 11.2X
 1.0s 60.00nm
 CNCB 14.12 142 P 43 46.00 1.4
 i 43 54.50
 CCH 15.72 138 P 44 14.60 9.4X
 SDV 15.83 24 eP 44 08.70 2.2
 TOV 16.98 25 eP 44 20.50 -0.6
 CEOS 17.00 31 iP 44 20.40 -0.9
 MORO 18.60 28 iP 44 44.80 3.6X
 OLLA 18.63 33 iP 44 43.40 1.8
 SIV 18.65 124 P 44 40.40 -1.4
 GUAN 19.23 36 iP 44 51.00 2.1
 BBL 26.10 36 eP 45 55.00 -2.1
 PAC 26.39 35 eP 45 58.00 -1.8
 DEG 26.97 36 eP 46 03.00 -2.1
 PDCR 37.96 103 eP 47 40.70 -0.3
 CAI 39.62 93 eP 47 54.20 -0.8
 BLA 42.82 356 P 48 21.60 0.7
 FVM 45.24 345 P 48 39.80 -0.6
 ALQ 49.05 328 eP 49 10.20 -0.4
 0.9s 6.72nm 4.7mb

ANMO 49.06 328 P 49 11.00 0.4
0.7s 5.99nm 4.7mb
pP 49 19.60 29km
GOL 52.23 332 P 49 34.30 -0.5
RSSD 55.27 337 P 49 57.20 0.1
1.3s 11.40nm 4.7mb
pP 50 05.70 28km
TNP 57.40 323 P 50 12.00 -0.4
0.7s 2.22nm 4.3mb
pP 50 20.80 29km
SCH 60.91 7 eP 50 36.00 -0.2
ORV 60.93 322 P 50 36.30 -0.3
pP 50 45.50 30km
SES 63.15 336 eP 50 51.00 -0.3
FFC 63.73 344 eP 50 54.00 -1.0
0.8s 6.00nm 4.8mb
FRB 69.56 4 eP 51 32.00 0.3
LKO 72.73 78 P 51 52.60 0.8
0.4s 5.50nm 4.9mb
LIC 72.80 82 P 51 53.10 0.9
Z 20s 0.29um 4.5msz
TIC 72.86 81 P 51 53.40 0.8
KIC 73.10 82 P 51 54.90 0.9
0.7s 6.50nm 4.8mb
YKA 73.84 343 eP 51 56.50 -0.8
0.6s 2.10nm 4.3mb
INK 83.56 342 eP 52 50.00 -0.1
MBC 85.42 351 ePc 53 00.40 1.1
1.0s 7.00nm 4.8mb
DAG 88.60 11 eP 53 13.00 -1.8
0.6s 6.00nm 5.1mb
LZH 149.76 359 ePKP 00 14.00 5.7X
1.6s 23.00nm
sP 00 26.50
GKN 151.79 36 PKP 00 19.14 7.6X
KKN 152.32 36 PKP 00 19.82 7.4X
DMN 152.36 36 PKP 00 20.48 7.9X
PKI 152.56 36 PKP 00 20.64 7.7X
GUN 152.57 34 PKP 00 21.06 8.1X
GBA 153.62 71 PKP 00 23.00 8.8X
S.D. = 1.2 on 37 of 47 obs.

APR 05, 1991 14h 43m 28.22±0.52s
40.510 N ± 4.2km 22.736 E ± 4.4km
DEPTH = 10.0km (geophysicist)
GREECE (364)
THE 0.21 55 ePc 43 33.12 0.3
eS 43 36.12
LIT 0.45 205 ePc 43 37.44 0.1
eS 43 44.64
GRG 0.51 330 ePd 43 38.44 -0.2
iS 43 45.56
SOH 0.56 56 ePc 43 39.56 -0.1
eS 43 47.84
KNT 0.66 11 ePc 43 41.52 0.1
eS 43 50.52
VAY 0.82 351 ePn 43 44.00 -0.1
SRS 0.89 47 ePc 43 45.32 0.0
eS 43 58.00
PAIG 0.93 129 ePc 43 45.76 -0.2
eS 43 59.52
FNA 1.07 285 ePc 43 48.56 0.1
eS 44 03.76
S.D. = 0.2 on 9 of 9 obs.

APR 05, 1991 15h 32m 30.12±0.70s
40.494 N ± 6.6km 22.767 E ± 5.2km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 3.1 (THE).
THE 0.20 48 eP 32 34.40 -0.2
eS 32 38.40
SOH 0.55 54 eP 32 41.50 0.1
KNT 0.67 8 eP 32 42.80 -0.7
VAY 0.84 350 ePn 32 45.30 -1.0
0.8s 388.00nm
iSn 32 57.40
Lg 32 59.50
SRS 0.88 45 eP 32 46.60 -0.5
eS 33 00.70
FNA 1.10 286 eP 32 50.90 0.1
eS 33 07.30
AGG 1.51 193 eP 32 56.80 -0.4
OHR 1.62 293 ePn 32 58.80 0.0
Lg 33 28.10

SKO 1.78 326 ePn 33 02.00 0.8
i 33 10.00
i 33 33.50
RZN 1.90 50 iPd 33 04.00 1.0
VTS 2.12 9 eP 33 07.00 0.8
MLR 5.51 24 eP 33 58.00 3.7X
S.D. = 0.7 on 11 of 12 obs.
APR 05, 1991 15h 47m 17.86±0.58s
40.518 N ± 5.2km 22.781 E ± 4.6km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.6 (THE).
THE 0.18 51 ePd 47 22.20 0.3
eS 47 25.40
LIT 0.47 208 ePc 47 26.52 -1.0
eS 47 34.00
GRG 0.52 327 ePc 47 27.44 -1.0
eS 47 35.50
SOH 0.53 55 ePd 47 28.72 0.1
KNT 0.65 8 iPc 47 30.30 -0.6
eS 47 40.00
VAY 0.82 349 iPn 47 32.70 -1.0
iSn 47 46.60
Lg 47 47.60
SRS 0.86 46 iPc 47 34.32 -0.1
eS 47 47.20
PAIG 0.91 130 ePc 47 34.72 -0.5
eS 47 48.52
OUR 0.94 101 ePd 47 36.52 0.8
FNA 1.10 284 ePc 47 38.72 0.1
eS 47 53.92
OHR 1.62 292 ePn 47 48.50 2.0
SKO 1.77 326 ePn 47 49.50 0.8
S.D. = 1.0 on 12 of 12 obs.

APR 05, 1991 15h 48m 26.05±0.41s
40.512 N ± 3.6km 22.749 E ± 3.7km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.7 (THE).
THE 0.20 54 iPd 48 30.76 0.3
eS 48 34.16
LIT 0.46 206 iPc 48 35.00 -0.3
eS 48 42.04
GRG 0.52 329 ePd 48 36.40 -0.1
eS 48 44.28
SOH 0.55 56 ePc 48 37.56 0.2
eS 48 45.88
KNT 0.66 10 iPc 48 38.96 -0.2
eS 48 49.20
VAY 0.82 351 iPn 48 41.00 -0.9
iSn 48 52.40
Lg 48 55.70
SRS 0.88 46 ePc 48 43.32 0.4
eS 48 55.88
PAIG 0.92 129 ePc 48 43.04 -0.6
eS 48 56.56
OUR 0.96 100 ePd 48 44.48 0.2
eS 48 58.04
FNA 1.08 285 ePd 48 46.72 0.3
eS 49 01.48
AGG 1.52 192 ePd 48 53.64 0.3
iS 49 14.40
OHR 1.60 293 ePn 48 55.00 0.5
SKO 1.76 326 iPn 49 02.50 5.7X
S.D. = 0.5 on 12 of 13 obs.

APR 05, 1991 15h 50m 47.32±0.15s
14.230 S ± 2.9km 75.511 W ± 4.0km
DEPTH = 50.0km (geophysicist)
5.7mb (58 obs.) 5.8msz (22 obs.)
NEAR COAST OF PERU (115)
Mo=2.0×10¹⁸ Nm (PPT). Some
damage (VI) at Ica and Nozca.
Felt (IV) at Canete and Lima.
Depth from broadband
displacement seismograms.
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=295 Dip=78 Slip= 90
NP2: 115 12 90
Principal Axes:
T Plg=57 Azm=205
P 33 25
Comment: The focal mechanism is

poorly controlled and
corresponds to reverse
faulting. The preferred fault
plane is not determined.
RADIATED ENERGY
No. of sta: 7 Focal mech. C
Energy 1.5±0.5×10¹³ Nm
MOMENT TENSOR SOLUTION
Dep 42 No. of sta: 12
Moment Tensor: Scale 10¹⁸ Nm
Mrr=0.43 Mtt=-1.53
Mff=1.11 Mrt=-1.62
Mrf=0.78 Mtf=-1.39
Principal axes:
T Vol= 2.66 Plg=35 Azm=237
N -0.01 46 102
P -2.65 24 345
Best Double Couple: Mo=2.7×10¹⁸ Nm
NP1:Strike= 25 Dip=47 Slip= 9
NP2: 289 83 136
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 40C
Centroid Location:
Origin Time 15:50:54.6 0.2
Lat 14.20S FIX; Lon 75.61W FIX
Dep 56.0 FIX Half-duration 6.0
Moment Tensor: Scale 10¹⁸ Nm
Mrr=-0.75 0.09 Mtt=-0.40 0.08
Mff=1.15 0.15 Mrt=-2.35 0.06
Mrf=1.38 0.06 Mtf=-0.73 0.07
Principal Axes:
T Vol= 2.99 Plg=34 Azm=230
N 0.02 20 126
P -3.01 49 12
Best Double Couple: Mo=3.0×10¹⁸ Nm
NP1:Strike= 13 Dip=21 Slip=-22
NP2: 123 82 -110

PT06 0.89 296 P 51 04.20 0.5
HUA 2.19 5 iPc 51 27.50 5.2X
i 52 20.60
PT08 2.47 336 P 51 24.90 -1.4
PT10 2.57 326 iPd 51 26.50 -0.9
iS 52 18.50
NNA 2.58 330 iPc 51 27.70 0.2
PT09 2.63 345 P 51 26.40 -2.5
ARE 4.47 120 iPc 51 55.00 0.5
e(S) 52 37.00
ZOBO 7.41 107 iPd 52 38.00 1.9
LPB 7.51 109 P 52 40.80 3.5X
CNCB 7.70 110 Pd 52 42.50 2.4
CCH 9.55 110 P 53 08.80 3.5X
ANT 10.58 154 iPd+ 53 16.50 -2.7
i(S) 55 07.50
i- 55 37.20
TUNG 13.06 347 P 53 54.00 1.3
VC1 13.80 348 eP 54 04.00 1.3
QUIL 13.81 346 P 54 05.30 2.6
ANGL 13.89 352 P 54 20.30 16.5X
SIV 14.05 99 iPd 54 02.00 -3.5X
SLA 14.07 139 ePd 54 06.00 0.2
OTO 14.25 348 eP 54 12.00 3.5X
QUR 14.28 348 eP 54 12.20 3.3X
GGP 14.29 347 P 54 10.90 1.7
YANA 14.35 348 eP 54 11.50 1.7
CAYA 14.43 350 eP 54 10.00 -0.9
COTA 14.74 349 eP 54 17.50 2.5
PSO 15.43 353 eP 54 24.00 0.2
RTRS 16.82 162 ePc 54 41.30 0.4
RTLL 18.21 160 ePd 54 57.40 -0.8
RTCB 18.25 161 ePc 54 58.20 -0.5
CFA 18.54 160 ePc 55 02.00 -0.2
BOG 18.78 4 iPd 55 08.00 2.3
iS 58 40.00
JACH 18.91 167 eP 55 06.00 -0.8
IHA 19.04 170 iPd 55 06.60 -1.6
ROCH 19.10 168 eP 55 07.50 -1.7
PEL 19.33 168 iPc 55 10.10 -1.5
LCCH 19.49 170 iPc 55 11.60 -1.6
MDZ 19.54 163 i(P) 55 13.10 -0.7
SAN 19.64 168 ePc 55 13.50 -1.3
TACH 19.78 169 eP 55 14.80 -1.5
PCH 19.83 168 eP 55 15.50 -1.4
LNV 19.99 170 iPc 55 16.60 -1.8
BMG 21.30 7 iPc 55 31.00 -1.1
ITB1 22.42 121 eP 55 44.70 1.6

				esS	08	46.30	
				eScS	10	11.83	
RSNY	58.50	1	P		00	40.00	-0.7
	1.0s	108.46	nm				5.9mb
	22s	17.46	um				6.1Msz
Z							
GAC	59.65	0	ePd	00	47.50		-1.1
	0.7s	48.00	nm				5.7mb
GLA	60.17	322	eP	00	51.00		-1.5
GLD	60.41	334	eP	00	51.80		-2.4
	1.6s	101.85	nm				5.7mb
			pP	01	08.30		62kmX
GOL	60.43	334	P	00	53.20		-1.3
	0.9s	25.57	nm				5.4mb
Z	22s	3.24	um				5.4Msz
BAR	61.02	321	eP	01	00.00		1.7
PLM	61.60	321	eP	01	03.00		0.6
TPC	61.63	322	eP	01	03.00		0.6
PEC	62.15	321	P	01	06.20		0.3
RVR	62.35	321	eP	01	08.00		0.9
MSU	62.69	328	P	01	09.20		-0.4
GSC	62.91	323	eP	01	11.00		0.1
MWC	62.92	321	eP	01	13.00		1.8
PAS	62.94	321	ePd	01	11.23		0.2
			esPc	01	31.26		
SBB	63.09	322	eP	01	12.00		-0.1
RSSD	63.63	337	P	01	14.70		-1.0
	1.5s	270.74	nm				6.1mb
Z	20s	2.82	um				5.4Msz
CLC	63.73	323	eP	01	15.00		-1.3
ISA	64.15	322	eP	01	20.00		1.0
BUG	64.29	329	P	01	19.90		-0.1
SYP	64.31	320	eP	01	22.00		1.8
MBO	64.54	66	iPd	01	20.90		-0.9
			iS	10	25.90		
BW06	64.77	333	iP	01	21.80		-1.4
	1.0s	41.25	nm				5.4mb
			pP	01	34.80		45kmX
			pP	01	42.70		
TNP	65.09	325	iP	01	25.00		-0.3
	1.0s	115.00	nm				5.9mb
			pP	01	41.50		61kmX
			sP	01	47.90		
PR I	65.79	321	eP	01	31.00		1.3
PTI	66.12	331	P	01	31.20		-0.5
LLA	66.27	321	iP	01	33.00		0.4
PRS	66.34	321	eP	01	33.10		0.0
SAO	66.67	321	eP	01	36.30		1.1
CMB	66.87	323	ePd	01	36.40		-0.1
ARN	67.10	322	P	01	39.10		1.1
MHC	67.17	321	eP	01	39.80		1.3
BKS	67.87	322	eP	01	43.50		0.8
	0.8s	66.00	nm				5.7mb
			eS	10	48.80		
			eSS	15	08.00		
			eLQ	18	56.80		
BRK	67.88	322	eP	01	43.30		0.5
LRM	68.44	333	eP	01	45.60		-0.9
ORV	68.53	323	ePd	01	47.30		0.5
SCH	69.17	5	ePd	01	48.90		-1.6
	0.8s	120.00	nm				5.9mb
RUV	69.21	259	iP	01	52.40		1.0
	1.6s	140.00	nm				5.6mb
			iP	02	08.40		58kmX
VAH	69.44	259	iP	01	53.70		0.9
	1.6s	140.00	nm				5.6mb
			iP	02	10.00		59kmX
TPT	69.47	259	iP	01	54.00		1.0
	1.6s	205.00	nm				5.8mb
			iP	02	10.20		59kmX
PMO	69.73	259	iP	01			

		0.7 s		24.00nm			5.2mb
NEW		72.38	332	iPc	02	09.20	-0.8
				pP	02	24.20	53kmX
DPW		72.58	331	P	02	11.00	-0.2
LIC		72.80	79	P	02	11.42	-1.6
	Z	20 s		9.80um			6.1MsZ
				S	11	32.00	
TIC		72.93	78	P	02	12.18	-1.7
KIC		73.11	79	P	02	13.28	-1.6
		0.6 s		14.50nm			5.1mb
LKO		73.25	75	Pd	02	14.32	-1.4
LON		73.54	329	ePd	02	16.38	-0.4
				ePpD	02	31.12	52kmX
				eSPc	02	36.58	
PNT		74.28	332	eP	02	21.00	0.0
		1.0 s		96.00nm			5.7mb
EDM		74.61	338	ePd	02	21.90	-1.0
MCW		75.36	330	P	02	28.00	0.7
PGC		75.64	329	eP	02	30.00	1.2
NVL		75.80	160	iP	02	28.00	-1.4
		1.5 s		129.00nm			5.6mb
	Z	22 s		4.80um			5.8MsZ
				iPcP	02	44.00	
				ePP	05	31.00	
				ePPP	07	05.00	
				eS	12	07.00	
				ePS	12	29.00	
				eSS	16	56.00	
				eSSS	19	50.00	
SPA		75.86	180	iPc	02	29.50	-0.6
		1.0 s		181.00nm			6.0mb
	Z	20 s		2.25um			5.5MsZ
				i	02	44.50	
FR8		77.92	3	ePd	02	39.20	-1.9
TIO		79.40	54	iP	02	51.50	1.3
				i	03	12.40	
AVE		80.24	52	iP	02	55.00	0.5
				i	03	12.00	
SBA		81.77	191	iPc	03	02.50	0.8
				iS	13	44.00	
IFR		82.08	53	iPd	03	05.00	0.7
YKA		82.35	343	eP	03	03.10	-1.7
		0.7 s		24.70nm			5.3mb
EVAL		82.49	48	eP	03	07.20	1.1
CNII		82.51	50	eP	03	10.00	3.8X
PLAT		82.62	50	eP	03	10.00	3.1X
PTO		82.69	44	iPd	03	07.50	0.5
				eS	13	10.00	
GIBL		82.76	49	eP	03	10.00	2.4
EJIF		82.97	50	eP	03	10.50	1.9
LIJA		83.19	49	eP	03	11.50	1.6
EPRU		83.35	49	eP	03	15.70	5.1X
EHOR		83.67	49	eP	03	13.10	0.9
MAL		83.86	50	iPd	03	14.45	1.3
				iS	13	22.00	
				iSS	19	30.00	
EPLA		83.98	46	eP	03	14.70	1.0
EGUA		84.53	50	eP	03	21.30	4.8X
ECOG		84.70	50	eP	03	18.10	0.6
AFC		84.70	50	eP	03	20.20	2.6
GDH		84.71	8	ePd	03	17.24	0.6
				ePpD	03	30.32	44kmX
				eSPc	03	36.11	
TOL		85.34	47	iPc	03	21.80	1.3
		2.0 s		470.59nm			6.3mb
				iS	13	45.00	
				ePS	14	35.00	
				iSS	19	29.00	
				eSSS	22	50.00	
CER		86.23	123	eP	03	26.50	1.3
ETOR		87.10	47	eP	03	29.20	-0.1
ECHE		87.44	48	eP	03	31.90	1.1
EPF		89.56					

[illegible]

DEAD SEA REGION				(373)	
SHMJ	0.43	100	Pc	08 35.04	-0.2
BURJ	0.72	141	Pd	08 40.82	0.1
JARJ	0.81	134	Pc	08 42.19	0.0
SALL	0.87	156	Pd	08 43.23	0.0

? APR 05, 1991 18h 08m 26.46± 8.81s
32.803 N ±46.3km 35.263 E ±41.8km
DEPTH = 10.0km (geophysicist)
DEAD SEA REGION (373)

SHMJ	0.43	100	Pc	08	35.04	-0.2
BURJ	0.72	141	Pd	08	40.82	0.1
JARJ	0.81	134	Pc	08	42.19	0.0
SALJ	0.87	156	Pd	08	43.23	0.0

MASJ	1.14	160	Pd	08	47.65	-0.2
MKRJ	1.29	165	Pd	08	50.09	-0.3
MDSJ	1.44	144	Pc	08	53.00	0.4

S.D. = 0.2 on 8 of 8 obs.				TPC 89.47 14 eP 47 53.00 1.8							
APR 05, 1991 18h 34m 53.20 ± 0.34s				SBB 89.82 12 eP 47 53.00 0.2				APR 05, 1991 20h 29m 47.36 ± 0.35s			
54.592 S ± 9.4km 132.516 W ± 7.1km				GSC 90.55 13 eP 48 02.00 5.8X				1.864 S ± 4.3km 138.720 E ± 7.7km			
DEPTH = 10.0km (geophysicist)				ISA 90.70 11 eP 47 58.00 1.1				DEPTH = 33.0km (normal)			
5.2mb (9 obs.) 5.5MsZ (2 obs.)				CLC 90.96 12 eP 47 58.00 0.0				5.0mb (13 obs.)			
SOUTH PACIFIC CORDILLERA (691)				YKA 117.59 9 ePKP 53 54.00 14.5X				NEAR N. COAST OF WEST IRIAN (197)			
Mo=1.0*10**18 Nm (PPT).				1.1s 0.80nm							
CENTRIDID. MOMENT TENSOR (HRV)				INK 122.59 360 ePKP 53 52.00 3.2X				MTN 13.25 214 eP 32 55.00 -0.8			
Data Used: GDSN				LZH 137.56 268 (PKP) 54 07.50 -11.2X				0.3s 93.00nm 6.2mb X			
L.P.B.: 15S, 35C				Z 40s 1.17um 5.3MsZ				KNA 16.93 215 eP 33 43.00 -0.5			
Centroid Location:				sPKP 54 24.00				OIS 18.60 177 eP 34 03.00 -1.2			
Origin Time 18:35: 3.7 0.3				i 55 18.00				eS 37 33.00			
Lat 54.055 0.05 Lon 132.55W 0.05				PP 57 08.00				ASPA 22.17 192 iPc 34 41.80 -0.5			
Dep 15.0 FIX Half-duration 3.1				SS 15 16.00				1.0s 29.50nm 4.7mb			
Moment Tensor: Scale 10**17 Nm				NDI 146.34 232 ePKP 54 34.00 -0.1				iS 38 47.00			
Mrr= 0.71 0.14 Mtt= 3.55 0.18				DAG 147.71 23 ePKPc 54 35.80 1.0				HNR 22.41 110 eP 34 44.00 -0.7			
Mff=-4.26 0.13 Mrt= 0.12 0.43				0.9s 19.33nm				WARB 26.83 205 eP 35 27.30 0.5			
Mrf= 0.73 0.54 Mti= 4.96 0.19				MFF 149.25 85 ePKP 54 47.30 9.1X				0.4s 9.00nm 4.7mb			
Principal Axes:				GRR 149.77 82 ePKP 54 44.00 5.1X				STK 29.98 175 eP 36 13.90 18.8X			
T Val= 5.99 Ptg= 5 Azm=334				1.2s 35.70nm				0.7s 3.10nm			
N 0.73 83 199				BGF 150.96 87 ePKP 54 48.20 7.5X				FORR 30.53 198 eP 36 00.00 0.0			
P -6.72 5 64				AVF 151.38 87 ePKP 54 50.80 9.5X				ADE 32.93 180 eP 36 22.00 1.0			
Best Double Couple: Mo=6.3*10**17				QUE 151.88 218 ePKP 54 51.00 8.1X				BFD 35.32 175 eP 36 44.00 2.5			
NP1: Strike=109 Dip=83 Slip= 0				LPG 152.65 92 ePKP 54 57.30 13.7X				SSE 36.78 334 P 36 54.00 0.1			
NP2: 199 90 -173				1.5s 47.00nm				1.0s 12.00nm 4.7mb			
SBA 31.24 201 P 41 19.50 5.1X				PRNI 154.16 155 ePKP 54 55.00 9.2X				IPM 38.20 280 ePc 37 05.40 -0.8			
SPA 35.59 180 iPc 41 55.10 2.6				OHR 157.75 116 ePKP 54 50.50 0.3				NJ2 38.63 332 Pc 37 10.00 0.5			
1.0s 55.00nm 5.4mb				GAR 158.07 234 ePKP 55 09.00 18.2X				SNG 39.07 284 eP 37 14.50 1.1			
Z 20s 4.95um 5.3MsZ				VAY 158.82 119 ePKP 54 51.00 -0.3				XAN 45.39 325 P 38 04.50 -0.3			
RUV 40.99 338 iP 42 37.40 -0.3				i 55 27.50				BJI 46.53 336 eP 38 13.00 -0.6			
1.4s 50.00nm 5.1mb				CLL 159.10 85 ePKP 54 56.00 4.7X				1.2s 24.00nm 5.0mb			
VAH 41.00 337 iP 42 37.50 -0.2				1.7s 22.00nm				CD2 46.57 317 eP 38 14.70 0.6			
1.4s 60.00nm 5.1mb				MLR 163.49 115 ePKP 55 00.50 4.3X				CN2 46.99 347 P 38 16.80 -0.4			
TPT 41.24 338 iP 42 39.50 -0.2				VRI 164.16 115 ePKP 55 10.00 13.3X				LZH 49.82 323 P 38 40.00 0.5			
1.4s 50.00nm 5.1mb				S.D. = 1.2 on 40 of 60 obs.				1.5s 34.00nm 5.2mb			
PMO 41.28 337 iP 42 39.70 -0.4				? APR 05, 1991 18h 36m 20.03 ± 16.55s				PP 38 49.50			
1.4s 60.00nm 5.1mb				58.924 N ± 80.1km 2.349 E ± 109.6m				SP 38 55.50			
LNV 46.70 90 ePd 43 23.00 -0.7				DEPTH = 10.0km (geophysicist)				GTA 54.40 323 Pd 39 13.80 0.1			
PCH 47.46 90 iPd 43 29.50 -0.3				NORTH SEA (534)				0.8s 10.00nm 4.9mb			
SAN 47.49 90 eP 43 29.50 -0.5				MD 2.8 (BER). ML 2.1 (NAO).				LSA 55.19 309 Pc 39 20.00 -0.1			
ROCH 47.63 89 iPd 43 31.50 0.1				KMY 1.52 78 iPc 36 47.62 0.3				GUN 58.72 304 P 39 45.10 0.1			
MDZ 48.96 91 i(P) 43 40.90 -0.5				EGD 1.99 46 iPc 36 54.49 0.4				1.2s 40.00nm 5.4mb			
TAU 51.34 248 eP 44 05.00 5.6X				eSg 37 25.06				PKI 58.99 304 P 39 46.38 -0.5			
e 51 16.00				BER 2.11 45 eP 36 55.66 -0.1				1.1s 11.00nm 4.9mb			
NVL 52.37 166 (P) 44 08.00 1.1				eSg 37 27.93				KKN 59.17 304 P 39 47.74 -0.3			
Z 15s 5.30um 5.7MsZ				ASK 2.13 41 iPc 36 56.20 0.2				1.0s 27.00nm 5.3mb			
eS 51 42.00				iSg 37 28.04				DMN 59.25 304 P 39 48.54 -0.1			
ePS 51 50.00				ODD1 2.40 64 iP 37 00.58 0.5				1.0s 29.00nm 5.4mb			
eSS 55 15.00				iSg 37 36.75				GKN 59.78 304 P 39 52.04 -0.1			
eLQ 00 30.00				SUE 2.46 28 eP 37 00.66 -0.1				1.0s 44.00nm 5.5mb			
CNB 55.53 256 ePd 44 30.80 0.1				eSg 37 36.30				KOD 62.13 283 eP 40 09.00 0.5			
TOO 56.07 251 eP 44 35.00 0.5				HYA 2.96 39 iP 37 07.76 -0.1				HYB 62.28 291 eP 40 08.50 -0.6			
COO 57.55 262 eP 44 45.00 -0.1				eSg 37 49.49				GBA 62.65 286 Pd 40 11.00 -0.5			
MAW 57.58 187 eP 44 41.20 -3.6X				NRA0 4.98 65 Pn 37 35.40 -1.2				0.9s 17.30nm 5.2mb			
1.1s 27.00nm 5.2mb				S.D. = 0.6 on 8 of 8 obs.				WMO 64.36 321 iPd 40 22.50 0.1			
CMS 60.34 257 eP 45 03.00 -1.4				* APR 05, 1991 19h 05m 14.27 ± 0.91s				GAR 74.55 311 eP 41 25.00 -0.1			
NNA 60.73 68 iPc 45 05.00 -2.2				10.075 N ± 13.6km 69.430 W ± 8.9km				QUE 75.25 302 eP 41 30.50 1.1			
0.7s 18.49nm 5.3mb				DEPTH = 33.0km (normal)				INK 90.89 22 eP 42 48.00 -0.6			
ADE 61.70 249 eP 45 13.00 -0.6				3.3mb (1 obs.)				YKA 99.31 27 eP 43 27.30 0.1			
CNCB 61.75 79 iPc 45 14.20 -0.5				VENEZUELA (101)				1.1s 1.50nm 4.4mb			
LPB 61.90 79 P 45 16.00 0.4				Felt at Quibor and Barquisimeto.				S.D. = 0.7 on 33 of 34 obs.			
S 53 40.00								APR 05, 1991 20h 37m 29.27 ± 0.53s			
LR 03 36.00								6.051 S ± 6.3km 76.902 W ± 11.3km			
CCH 62.34 81 P 45 20.60 2.2								DEPTH = 31.6km (3 depth phases)			
STK 62.43 253 iPd 45 37.30 18.8X								4.6mb (5 obs.)			
0.9s 5.80nm								NORTHERN PERU (111)			
SIV 66.37 84 Pc 45 42.40 -1.9											
PPD 67.30 96 (P) 45 49.00 -1.2								NNA 5.90 179 iPc 38 56.00 -0.9			
CTA 68.83 265 eP 46 07.00 7.2X								0.9s 84.03nm 5.4mb X			
1.2s 46.88nm 5.6mb								i 38 57.00			
iS 55 08.00								eS 39 02.00			
VAO 69.05 100 eP 46 00.80 -0.3								PT10 5.99 181 iPc 39 57.50 59.4X			
HNR 69.40 283 P 46 02.00 -1.2								iS 40 03.50			
ASPA 73.07 253 iPd 46 23.30 -1.9								HUA 6.15 165 iPd 39 02.00 1.2			
1.0s 13.30nm 5.0mb								i 40 19.00			
Z 21s 5.60um 5.8MsZ								iS 40 45.50			
PDCR 81.86 100 eP 47 12.90 -1.0								ZOBO 13.31 140 P 40 38.00 -1.2			
CAI 87.84 98 eP 47 44.10 0.2								Z 20s 0.91um 45 30.00			
BAR 87.98 13 eP 47 46.00 1.9								LPB 13.52 141 P 40 43.00 1.2			
GLA 88.61 15 eP 47 47.00 -0.1								Z 18s 4.12um 46 34.00			
PLM 88.62 13 eP 47 50.00 2.6								LR 40 51.00 5.3X			
RVR 89.19 13 eP 47 49.00 -0.8								CCH 15.41 138 P 41 15.90 9.4X			
MWC 89.33 12 eP 47 52.00 1.3								CEOS 17.24 30 iP 41 29.70 0.1			
								TOV 17.25 24 eP 41 29.50 -0.2			

05d 20h

SIV 18.40 124 P 41 43.00 -0.8
 PDCR 37.80 103 (P) 44 45.00 0.2
 ALO 49.38 328 eP 46 18.00 -0.3
 0.9s 4.83nm 4.5mb
 ANMO 49.39 328 eP 46 18.90 0.6
 1.2s 3.52nm 4.3mb
 KIC 73.06 82 P 48 59.00 0.1
 YKA 74.18 343 eP 49 02.50 -1.9
 0.7s 1.10nm 4.0mb
 INK 83.90 342 eP 49 57.00 0.0
 0.7s 8.00nm 5.1mb
 MBC 85.76 351 eP 50 07.00 0.9
 0.7s 8.00nm 5.1mb
 DAG 88.91 11 iPd 50 22.20 0.8
 0.8s 8.21nm 5.1mb
 LZH 150.10 359 ePKP 57 19.50 5.6X
 2.0s 21.00nm
 pP 57 29.50
 i 57 30.00
 GKN 152.01 37 PKP 57 24.00 7.0X
 KKN 152.55 36 PKP 57 25.12 7.3X
 DMN 152.58 37 PKP 57 25.28 7.4X
 PKI 152.79 36 PKP 57 25.52 7.2X
 GUN 152.80 35 PKP 57 26.62 8.3X
 HYB 153.49 63 ePKP 57 31.00 11.9X
 S.D. = 1.0 on 15 of 25 obs.

& APR 05, 1991 20h 52m 53.42s
 60.014 N 149.858 W
 DEPTH = 37.1km
 KENAI PENINSULA, ALASKA (14)
 <AEIC>. ML 2.9 (AEIC).

SEW 0.22 66 iPc 53 00.12 -0.5
 iS 53 05.63
 SLKM 0.53 340 iPd 53 03.91 -0.6
 iS 53 12.35
 BRLK 0.58 245 iPd 53 04.53 -0.6
 eS 53 12.94
 NNL 0.72 273 iPc 53 07.23 0.0
 CNPM 0.85 236 iPc 53 08.50 -0.6
 eS 53 19.83
 HOM 0.97 249 ePd 53 10.56 -0.1
 NKA 1.00 317 iPc 53 12.29 1.2
 LTI 1.01 88 iPd 53 10.20 -1.0
 XLV 1.10 240 eP 53 11.60 -0.9
 MTU 1.11 90 iPd 53 11.64 -1.0
 KNIM 1.11 72 iPd 53 11.66 -1.1
 eS 53 26.45
 PMS 1.24 7 iPc 53 14.45 -0.2
 RDT 1.39 295 ePc 53 15.80 -0.9
 eS 53 33.89
 REF 1.50 290 ePc 53 17.28 -1.1
 RED 1.51 287 ePc 53 17.22 -1.3
 eS 53 35.81
 RSO 1.51 289 ePc 53 17.53 -1.1
 eS 53 37.23
 RS2 1.51 289 ePc 53 17.49 -1.2
 SUA 1.52 344 ePc 53 18.05 -0.6
 DFR 1.52 294 ePc 53 17.59 -1.1
 eS 53 36.31
 RDN 1.53 290 ePc 53 17.71 -1.2
 eS 53 37.11
 RDW 1.55 289 eP 53 18.05 -1.1
 KNK 1.56 26 ePc 53 18.45 -0.8
 SPU 1.60 318 ePc 53 18.90 -0.8
 PLRM 1.62 12 eP 53 19.47 -0.6
 NCT 1.63 291 eP 53 18.76 -1.5
 PWA 1.64 360 eP 53 20.38 0.0
 CRP 1.69 319 eP 53 20.47 -0.8
 CKL 1.70 315 eP 53 20.49 -0.9
 BGL 1.77 316 eP 53 21.91 -0.4
 GH0 1.82 14 eP 53 22.63 -0.4
 AUE 1.90 251 eP 53 23.48 -0.5
 AUH 1.93 252 eP 53 23.71 -0.8
 AUI 1.93 251 eP 53 24.47 0.0
 SKT 2.13 338 ePc 53 26.68 -0.7
 DDD 2.22 242 eP 53 27.97 -0.6
 CUT 2.41 355 eP 53 32.06 0.8
 TZL 2.97 45 eP 53 39.19 -0.1
 GLB 3.30 62 ePc 53 42.13 -1.8
 CROM 3.42 75 ePc 53 43.36 -2.4
 39 obs. associated

& APR 05, 1991 21h 13m 38.98s

63.578 N 153.029 W
 DEPTH = 26.6km
 CENTRAL ALASKA
 <AEIC>. ML 3.6 (PMR), 3.3
 (AEIC).

TRF 1.24 95 ePd 14 00.23 -0.5
 eS 14 16.42
 TTA 1.50 246 eP 14 04.70 0.3
 HUR 1.65 110 ePd 14 06.73 0.2
 S 14 28.23
 BWN 1.69 68 eP 14 07.81 0.7
 CUT 1.72 132 ePd 14 07.46 -0.1
 SKT 1.75 156 ePc 14 07.07 -0.9
 eS 14 30.01
 MCK 1.83 83 eP 14 09.14 -0.1
 S 14 31.43
 RND 1.88 93 ePd 14 09.27 -0.7
 eS 14 34.83
 NEA 2.01 58 eP 14 12.16 0.5
 NCG 2.22 169 eP 14 13.23 -1.6
 BGL 2.34 172 ePc 14 15.57 -1.0
 WRH 2.35 65 eP 14 15.40 -1.2
 CRP 2.36 170 ePc 14 15.87 -0.9
 SUA 2.37 152 ePc 14 16.44 -0.6
 CKL 2.41 172 ePc 14 16.57 -1.0
 PWA 2.42 142 eP 14 17.66 0.1
 SPU 2.45 169 ePc 14 17.07 -1.0
 RDS 2.48 57 eP 14 19.06 0.6
 MDM 2.51 54 ePc 14 17.31 -1.6
 IMA 2.52 354 eP 14 19.40 0.3
 CCB 2.53 63 eP 14 18.12 -1.1
 GH0 2.62 132 ePc 14 20.36 -0.2
 FBA 2.64 58 eP 14 21.17 0.4
 PLRM 2.69 136 eP 14 21.03 -0.3
 PMR 2.69 136 eP 14 20.60 -0.8
 SVW 2.76 207 ePc 14 20.50 -1.9
 HDA 2.80 70 eP 14 22.78 -0.2
 GLM 2.84 58 eP 14 24.24 0.7
 PMS 2.84 144 eP 14 24.27 0.7
 DFR 3.00 177 ePc 14 24.44 -1.5
 NCT 3.03 179 eP 14 24.54 -1.8
 RDT 3.03 174 ePc 14 24.79 -1.5
 KNK 3.04 134 ePc 14 26.85 0.5
 eS 15 04.27
 RDN 3.08 178 ePc 14 25.46 -1.6
 S 15 04.94
 REF 3.10 177 ePc 14 26.02 -1.5
 RDW 3.11 178 ePc 14 26.26 -1.3
 RS2 3.13 178 ePc 14 26.42 -1.5
 RSO 3.13 178 ePc 14 26.37 -1.5
 SCM 3.16 121 eP 14 28.56 0.4
 RED 3.17 178 ePc 14 26.78 -1.6
 DDM 3.20 83 eP 14 28.64 -0.1
 SLKM 3.35 156 eP 14 31.07 0.2
 PAX 3.47 97 eP 14 32.83 0.2
 TOA 3.47 112 eP 14 32.20 -0.4
 SDG 3.57 104 eP 14 33.26 -0.7
 PDB 3.84 189 ePc 14 35.24 -2.5
 GLI 3.88 132 ePc 14 37.33 -0.9
 VZW 3.94 127 eP 14 38.37 -0.8
 CDD 4.67 184 ePc 14 47.53 -2.1
 BALM 5.60 112 eP 15 00.79 -1.9
 50 obs. associated

* APR 05, 1991 21h 38m 29.94 ± 0.50s
 5.621 S ± 8.0km 76.990 W ± 20.6km
 DEPTH = 33.0km (normol)
 4.8mb (6 obs.)
 NORTHERN PERU (111)

PT10 6.41 180 eP 40 04.50 -0.1
 eS 41 16.00
 HUA 6.59 166 eP 40 07.50 0.1
 ZOBO 13.69 141 P 41 51.00 6.2X
 Z 18s 0.28um
 LR 46 36.00
 LPB 13.91 142 P 41 55.00 7.5X
 CNCB 14.20 142 P 41 59.00 7.6X
 SDV 15.74 24 eP 42 26.00 14.8X
 TOV 16.90 25 e(P) 42 38.00 12.2X
 SIV 18.71 125 P 42 45.00 -2.4X
 TUL 44.93 338 e(P) 46 43.40 -0.2
 1.0s 12.00nm 4.7mb
 ALO 48.97 328 eP 47 15.90 0.3
 0.9s 10.50nm 4.9mb
 ANMO 48.98 328 eP 47 16.00 0.4

0.9s 8.19nm 4.8mb
 pP 47 25.00 30kmX
 FRB 69.47 4 eP 49 36.00 -0.7
 LKO 72.72 78 P 49 57.28 0.0
 YKA 73.75 343 eP 50 01.10 -1.3
 0.6s 2.20nm 4.3mb
 MBC 85.32 351 ePc 51 05.00 0.6
 1.0s 9.00nm 4.9mb
 DAG 88.51 11 iPc 51 20.90 1.0
 0.7s 5.48nm 5.0mb
 LZH 149.67 359 PKPc 58 19.00 5.3X
 1.5s 29.00nm
 pP 58 28.00
 i 58 44.00
 GKN 151.72 36 PKPc 58 23.88 6.9X
 0.8s 30.00nm
 KKN 152.25 35 PKP 58 25.02 7.2X
 0.6s 9.00nm
 DMN 152.29 36 PKP 58 25.14 7.2X
 PKI 152.49 36 PKP 58 25.18 6.8X
 GUN 152.50 34 PKP 58 25.76 7.4X
 S.D. = 0.7 on 10 of 22 obs.

* APR 05, 1991 22h 04m 08.68 ± 2.59s
 31.651 S ± 10.5km 68.728 W ± 20.9km
 DEPTH = 98.0 ± 24.6 km
 SAN JUAN PROVINCE, ARGENTINA (137)

ZON 0.11 22 iPd 04 23.00 0.1
 eS 04 35.00
 RTCB 0.17 339 iPd 04 23.00 -0.1
 RTLL 0.39 35 iPc 04 23.80 0.0
 RTBS 0.62 269 ePd 04 25.40 0.0
 MDZ 1.23 185 iP 04 32.00 0.0
 iS 04 50.90
 RTRS 1.60 337 iPc 04 36.50 0.0
 S 04 58.00
 S.D. = 0.1 on 6 of 6 obs.

* APR 05, 1991 22h 18m 35.24 ± 0.78s
 40.497 N ± 6.6km 22.760 E ± 6.5km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)

THE 0.21 49 ePd 18 39.60 -0.1
 eS 18 42.92
 LIT 0.45 208 ePc 18 44.12 -0.2
 iS 18 51.68
 GRG 0.53 329 ePc 18 45.84 -0.2
 eS 18 52.12
 SOH 0.56 54 ePd 18 46.96 0.4
 eS 18 55.12
 KNT 0.67 9 iPd 18 48.36 -0.2
 eS 18 57.64
 FNA 1.09 286 ePd 18 56.20 0.4
 eS 19 11.32
 S.D. = 0.4 on 6 of 6 obs.

APR 05, 1991 22h 37m 23.34 ± 0.45s
 44.773 N ± 3.4km 7.611 E ± 4.3km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.4 (LDG).

BHB 0.26 286 P 37 30.26 1.5
 S 37 34.99
 DOI 0.37 224 Pd 37 31.80 0.7
 eSg 37 38.50
 PZZ 0.45 234 P 37 32.56 0.0
 S 37 39.32
 RSP 0.45 327 P 37 32.35 -0.3
 S 37 38.40
 ROB 0.51 159 P 37 34.30 0.5
 S 37 41.45
 ENR 0.56 194 P 37 34.52 -0.3
 S 37 42.18
 STV 0.57 201 P 37 34.46 -0.4
 S 37 41.71
 CKI 0.59 126 P 37 37.50 2.2
 eSg 37 44.00
 RRL 0.61 284 P 37 35.43 -0.3
 S 37 43.11
 PCP 0.71 109 P 37 37.17 -0.1
 S 37 46.04
 FIN 0.71 143 P 37 37.28 0.0
 S 37 46.04
 BNI 0.72 293 P 37 40.00 2.4

LSD 0.76 335 eSg 37 47.50
S 37 37.07 -1.2
IMI 0.89 167 P 37 39.98 -0.4
S 37 49.70
ORO 0.89 17 P 37 40.00 -0.5
SBF 0.92 188 Pg 37 40.20 -0.7
Sg 37 52.40
LPG 0.95 320 Pg 37 41.30 -0.3
LPL 0.97 320 Pg 37 41.60 -0.3
Sg 37 54.00
FRF 1.40 210 Pg 37 48.00 -0.8
Sg 38 04.80
LRG 1.60 215 Pg 37 50.60 -1.0
Sg 38 10.00
LMR 1.64 209 Pg 37 52.00 -0.3
Sg 38 11.50
CDR 1.72 231 ePn 37 54.20 0.7
e 37 55.20
eSn 38 13.80
S.D. = 1.0 on 22 of 22 obs.

? APR 05, 1991 23h 09m 45.24 ± 0.76s
5.814 S ± 15.2km 77.589 W ± 25.1km
DEPTH = 33.0km (normal)
4.2mb (4 obs.)

NORTHERN PERU (111)

NNA 6.18 173 iP 11 16.50 -0.2
0.5s 5.63nm 4.5mb
iS 12 19.50
ZOBO 13.93 139 P 13 07.00 3.8X
Z 24s 0.10um
LR 18 24.00
SIV 19.10 123 P 14 08.60 0.5
ALQ 48.82 328 eP 18 30.20 0.5
0.9s 3.36nm 4.4mb
ANMO 48.82 328 eP 18 31.20 1.5
0.9s 1.47nm 4.0mb
YKA 73.76 343 eP 21 15.70 -2.0
0.5s 0.60nm 3.8mb
INK 83.47 342 eP 22 10.50 0.0
MBC 85.42 351 eP 22 20.00 -0.2
LZH 149.84 358 (PKP) 29 33.50 4.2X
S.D. = 1.3 on 7 of 9 obs.

* APR 06, 1991 00h 02m 09.05 ± 0.86s
13.918 N ± 24.0km 90.470 W ± 12.3km
DEPTH = 33.0km (normal)
4.9mb (3 obs.)

NEAR COAST OF GUATEMALA (71)

TPX 1.99 300 iP 02 40.00 -1.1
SCX 3.49 324 (P) 03 12.00 9.6X
OXX 6.80 298 (P) 03 38.00 -11.3X
IISM 8.32 308 eP 04 15.20 4.8X
(S) 05 40.00
IIT 9.07 305 (P) 04 37.80 16.8X
PPM 9.35 304 iP 04 27.20 2.1
III 9.71 298 (P) 04 30.20 0.3
SCH 44.80 19 eP 10 23.00 1.5
YKA 51.46 346 eP 11 11.60 -1.4
0.9s 0.80nm 3.7mb X
INK 60.94 343 eP 12 20.00 -0.9
MBC 64.18 353 eP 12 41.50 -0.8
LKO 82.83 82 P 14 32.20 0.0
0.5s 9.50nm 5.1mb X
TIC 84.03 85 P 14 38.52 0.2
0.7s 3.00nm 4.6mb
LIC 84.12 85 P 14 39.20 0.5
0.5s 4.50nm 4.9mb
KIC 84.37 85 P 14 40.18 0.2
0.5s 5.50nm 5.0mb
GKN 138.06 6 PKP 21 32.80 -0.5
GUN 138.27 5 PKP 21 33.00 -0.9
KKK 138.34 6 PKP 21 34.00 0.2
PKI 138.57 6 PKP 21 33.60 -0.8
HYB 147.03 20 ePKP 21 50.00 1.1
S.D. = 1.1 on 16 of 20 obs.

% APR 06, 1991 01h 04m 48.12 ± 0.83s
40.535 N ± 6.5km 22.725 E ± 7.7km
DEPTH = 10.0km (geophysicist)
GREECE (364)

THE 0.21 62 iPc 04 52.56 -0.1
eS 04 55.64

LIT 0.47 203 ePc 04 57.68 0.0
eS 05 04.96
GRG 0.49 330 ePc 04 58.04 0.0
eS 05 04.80
SOH 0.56 59 ePc 04 59.56 0.1
eS 05 07.68
KNT 0.64 12 ePd 05 00.92 0.0
eS 05 09.24

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

& APR 06, 1991 01h 17m 30.32s
60.231 N 153.048 W
DEPTH = 136.4km
3.1mb (1 obs.)
SOUTHERN ALASKA (2)
<AEIC>.

RED 0.23 36 iPc 17 48.48 0.7
eS 18 02.28
RS2 0.27 32 iPc 17 48.85 0.8
RSO 0.27 32 iPc 17 48.84 0.8
RDW 0.28 25 iPc 17 48.85 0.8
eS 18 02.82
REF 0.31 33 iPc 17 48.95 0.8
RDN 0.32 26 iPc 17 48.84 0.8
NCT 0.34 10 iPc 17 49.02 0.9
eS 18 03.28
DFR 0.40 26 iPc 17 49.02 -1.0
eS 18 02.99
RDT 0.47 43 iPc 17 49.48 -0.8
PDB 0.73 233 iPd 17 50.82 -1.0
eS 18 06.33
AUE 0.89 191 ePd 17 52.19 -0.9
AUH 0.89 193 ePd 17 52.41 -0.8
NNL 0.90 101 ePc 17 53.11 -0.1
HOM 0.91 128 eP 17 53.18 -0.1
S 18 09.83
AUI 0.92 192 ePd 17 52.35 -1.0
iS 18 09.40
XLV 1.03 139 iPd 17 53.38 -1.0
eS 18 11.19
CKL 1.03 20 iPc 17 53.87 -0.6
eS 18 11.67
NKA 1.03 59 iPc 17 55.11 0.8
BGL 1.09 17 iPc 17 54.58 -0.4
CRP 1.13 22 iPc 17 54.88 -0.6
eS 18 13.46
CNPM 1.16 127 iPd 17 54.99 -0.6
eS 18 13.65
BRK 1.18 112 ePd 17 55.09 -0.8
eS 18 13.37
MCNL 1.24 212 iPd 17 55.17 -1.2
eS 18 14.03
NCG 1.26 20 iPc 17 56.08 -0.6
CDD 1.34 193 iPd 17 56.12 -1.4
eS 18 16.61
SLKM 1.43 78 iPc 17 57.07 -1.4
eS 18 17.92
SVW 1.54 306 iPd 17 58.20 -1.5
eS 18 20.22
SYI 1.66 168 iPd 17 59.51 -1.5
eS 18 22.53
SUA 1.67 41 iPc 18 00.39 -0.9
eS 18 24.10
SEW 1.80 93 eP 18 01.12 -1.5
SKT 1.90 22 iPc 18 02.87 -1.1
eS 18 27.84
PMS 1.99 58 ePc 18 03.54 -1.5
eS 18 29.77
PWA 2.10 46 eP 18 04.65 -1.6
eS 18 33.49
PLRM 2.35 53 eP 18 07.09 -2.3
GHO 2.54 51 iPc 18 09.48 -2.3
KNK 2.54 60 ePc 18 09.36 -2.5
S 18 40.86
CUT 2.56 30 ePc 18 10.82 -1.2
eS 18 41.96
LTI 2.61 92 ePc 18 10.60 -2.0
KNIM 2.65 85 iPc 18 10.32 -2.9
S 18 42.03
MTU 2.71 93 iPc 18 12.47 -1.6
eS 18 44.94
GLI 3.01 75 eP 18 14.69 -3.2
TTA 3.06 334 eP 18 16.85 -1.7
HUR 3.20 29 eP 18 18.81 -1.6
SCM 3.21 58 ePc 18 18.19 -2.4
VZW 3.30 73 eP 18 19.03 -2.8

VLZ 3.43 72 eP 18 20.35 -2.9
TRF 3.49 21 eP 18 22.68 -1.6
TOA 3.82 58 ePc 18 27.08 -1.6
MCK 4.01 27 eP 18 29.94 -1.2
TZL 4.12 61 eP 18 29.87 -2.7
SDG 4.28 54 ePc 18 32.79 -2.0
BWN 4.30 21 eP 18 33.71 -1.2
PAX 4.54 50 eP 18 35.93 -2.4
GLB 4.68 71 eP 18 37.54 -2.6
NEA 4.74 21 iPd 18 38.93 -1.9
WRH 4.84 26 eP 18 39.91 -2.3
DDM 4.92 40 iPc 18 42.72 -0.6
CROM 4.93 80 ePc 18 41.98 -1.7
CCB 5.06 27 ePc 18 42.55 -2.6
HDA 5.06 32 iPc 18 42.97 -2.3
TGL 5.08 80 ePc 18 43.80 -1.8
RDS 5.14 24 eP 18 43.98 -2.3
FBA 5.28 25 ePd 18 46.16 -1.9
BALM 5.33 77 ePc 18 47.41 -1.6
CTGM 5.82 78 iPc 18 54.36 -1.3
YKA 18.38 66 eP 21 34.30 -2.6
0.5s 0.50nm 3.1mb
66 obs. associated

* APR 06, 1991 03h 52m 57.83 ± 0.88s
39.349 N ± 9.7km 26.340 E ± 10.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

MD 3.6 (ISK).

OUR 2.07 299 ePc 53 33.30 0.3
PAIG 2.13 287 ePd 53 35.18 1.2
eS 53 58.78
CIN 2.22 141 eP 53 35.00 -0.2
KDZ 2.40 343 iPd 53 38.00 0.2
SOH 2.72 304 ePc 53 41.78 -0.7
eS 54 09.86
MMB 3.00 319 eP 53 47.00 0.7
PLD 3.02 336 eP 53 54.00 7.5X
LIT 3.06 285 ePd 53 46.82 -0.4
eS 54 21.30
KNT 3.20 306 ePc 53 47.38 -1.7
eS 54 20.98
PGB 3.60 333 eP 53 54.00 -0.8
PVL 3.94 349 eP 54 00.00 0.4
S.D. = 1.0 on 10 of 11 obs.

* APR 06, 1991 03h 57m 43.48 ± 0.60s
5.607 S ± 9.5km 77.149 W ± 19.7km
DEPTH = 33.0km (normal)
4.7mb (5 obs.)

NORTHERN PERU (111)

NNA 6.35 177 iPd 59 17.00 -0.3
0.6s 48.67nm 5.4mb
eS 00 23.50
PT10 6.43 178 iPc 59 18.50 0.1
iS 00 17.50
ARE 12.13 153 e(P) 00 24.00 -13.3X
LPB 14.02 141 P 01 04.00 1.5
Z 16s 1.01um
LR 06 50.00
CNCB 14.30 142 eP 01 05.00 -1.3
i 01 14.40
CCH 15.90 138 eP 01 31.00 4.1X
ALQ 48.88 328 eP 06 29.00 0.6
1.0s 5.75nm 4.6mb
SES 62.99 336 ePc 08 09.50 0.2
FRB 69.47 4 eP 08 50.00 -0.2
KIC 73.24 82 P 09 13.80 -0.1
0.6s 4.50nm 4.6mb
YKA 73.69 343 eP 09 13.30 -2.2
0.6s 1.60nm 4.2mb
INK 83.41 342 eP 10 09.00 0.5
MBC 85.28 351 ePc 10 19.00 1.2
1.0s 6.00nm 4.8mb
LZH 149.65 358 ePKP 17 31.50 4.3X
1.5s 28.00nm
pP 17 37.50
sP 17 42.50
GKN 151.80 36 PKP 17 37.80 7.1X
0.8s 20.00nm
KKK 152.33 35 PKP 17 38.60 7.1X
PKI 152.57 35 PKP 17 39.00 7.0X
GUN 152.58 34 PKP 17 35.60 3.6X
S.D. = 1.2 on 11 of 18 obs.

06d 04h

* APR 06, 1991 04h 20m 21.58±0.57s
 5.570 S ±10.0km 77.020 W ±21.5km
 DEPTH = 33.0km (normol)
 4.2mb (3 obs.)

NORTHERN PERU (111)

NNA 6.38 178 iP 21 55.80 0.0
 0.7s 20.55nm 5.0mb X
 PT10 6.46 180 eP 22 54.50 57.5X
 LPB 13.97 142 P 23 51.30 11.4X
 CNCB 14.25 142 P 23 51.20 7.4X
 ALO 48.92 328 eP 29 06.50 -0.3
 0.9s 4.20nm 4.5mb
 ANMO 48.92 328 eP 29 06.80 0.0
 0.9s 2.10nm 4.2mb
 PNT 66.01 331 eP 31 07.00 0.0
 FRB 69.42 4 eP 31 28.00 -0.1
 KIC 73.11 82 P 31 51.00 -0.2
 YKA 73.69 343 eP 31 52.70 -1.0
 0.6s 1.00nm 4.0mb
 INK 83.41 342 eP 32 47.00 0.4
 MBC 85.27 351 eP 32 57.00 1.2
 S.D. = 0.7 on 9 of 12 obs.

APR 06, 1991 04h 48m 47.23±0.11s
 24.168 S ±3.1km 179.984 E ±3.1km
 DEPTH = 548.8km (4 depth phoses)
 5.4mb (62 obs.)

SOUTH OF FIJI ISLANDS (171)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 13S, 27C

Centroid Location:

Origin Time 04:48:51.4 0.9

Lat 23.79S 0.12 Lon 180.05E 0.08

Dep 544.2 3.4 Half-duration 2.8

Moment Tensor: Scale 10**17 Nm

Mrr=-0.75 0.09 Mtt=0.31 0.12

Mff=-1.07 0.13 Mrt=0.01 0.12

Mrf=-1.75 0.12 Mtf=-0.34 0.12

Principal Axes:

T Val= 1.83 Plg=58 Azm= 77

N 0.32 10 182

P -2.16 31 278

Best Double Couple: Mo=2.0*10**17

NP1: Strike= 36 Dip=17 Slip= 125

NP2: 180 76 80

RAO 5.40 160 P 50 19.00 -2.1
 S 51 33.80
 SVA 6.19 346 ePd 50 25.60 -2.6
 eS 51 46.20
 MBU 7.26 350 eP 50 36.90 -1.6
 DZM 12.63 277 iPc 51 33.20 0.4
 iS 53 54.10
 ScP 59 09.90
 PVC 12.64 298 iPc 51 32.00 -0.7
 HBZ 13.47 186 P 51 41.20 0.3
 0.3s 8.00nm 4.6mb
 eS 54 05.20
 PUZ 13.94 186 eP 51 47.50 1.7
 eS 54 11.10
 WLZ 14.14 194 P 51 51.20 3.5X
 TAZ 14.33 191 P 51 53.10 3.5X
 UTU 14.33 192 eP 51 53.90 4.2X
 NOZ 14.50 186 eP 51 52.90 1.6
 eS 54 22.50
 WHH 14.97 191 eP 51 57.30 1.3
 NGZ 15.42 193 P 52 01.90 1.4
 CNZ 15.45 193 eP 52 02.60 1.8
 TTH 15.56 189 eP 52 03.90 2.2
 PGZ 16.70 190 P 52 12.80 0.0
 S 55 00.70
 MNG 16.83 192 P 52 12.80 -1.3
 KIW 17.18 193 eP 52 16.20 -1.3
 S 55 11.00
 MTW 17.35 191 eP 52 18.60 -0.6
 CAW 17.39 193 P 52 19.00 -0.5
 WDW 17.56 193 eP 52 20.30 -0.8
 MRW 17.58 193 P 52 20.30 -1.0
 eS 55 14.00
 WEL 17.62 193 P 52 22.00 0.3
 S 55 18.00
 MOW 17.65 192 eP 52 21.70 -0.4
 TCW 17.65 194 eP 52 20.60 -1.5

THZ 18.51 197 eP 52 30.90 0.5
 S 55 30.60
 KHZ 18.97 195 P 52 33.80 -0.8
 LTZ 19.63 197 P 52 39.80 -1.1
 S 55 47.50
 MMCZ 22.58 200 P 53 06.10 -1.8
 MHZ 22.59 200 P 53 06.20 -1.8
 HNR 24.09 304 eP 53 19.00 -2.6
 BRS 24.69 257 iPc 53 27.20 0.2
 COO 25.71 249 iPd 53 37.00 1.1
 0.5s 81.00nm 5.6mb
 TBI 27.95 95 iP 53 55.20 -0.3
 0.8s 120.00nm 5.6mb
 RMQ 28.29 259 iPd 53 58.10 -0.4
 i 54 12.40
 iScP 59 47.40
 CNB 28.70 240 iPc 54 03.70 1.6
 0.5s 243.00nm 6.1mb
 e 55 25.50
 59 49.00
 AFR 28.98 83 iP 54 02.80 -1.7
 PAE 29.12 83 iP 54 04.00 -1.7
 0.8s 75.00nm 5.4mb
 PPT 29.15 83 iP 54 04.30 -1.7
 0.8s 165.00nm 5.7mb
 PPN 29.29 83 iP 54 05.50 -1.7
 0.8s 65.00nm 5.3mb
 TVO 29.38 83 iP 54 06.40 -1.6
 0.8s 80.00nm 5.4mb
 CMS 30.98 249 iPd 54 21.90 0.4
 CTA 31.46 271 iPd- 54 25.20 -0.5
 1.0s 465.00nm 6.1mb
 iS 58 56.80
 iScP 59 58.00
 PMO 31.54 79 iP 54 24.90 -1.4
 0.8s 90.00nm 5.4mb
 VAH 31.69 80 iP 54 26.00 -1.6
 0.8s 75.00nm 5.4mb
 TPT 31.80 79 iP 54 27.20 -1.2
 0.8s 165.00nm 5.7mb
 RUV 31.93 80 iP 54 28.20 -1.4
 0.8s 100.00nm 5.5mb
 TOO 32.29 237 iPc 54 33.70 1.2
 0.7s 233.00nm 5.9mb
 OLP 32.33 258 eP 54 34.50 1.6
 TAU 32.74 227 iPc 54 37.60 1.4
 BFD 34.49 239 iP 54 52.00 1.1
 0.9s 105.00nm 5.5mb
 e 00 07.00
 PMG 34.57 289 iPd 54 50.00 -1.8
 ADE 37.25 244 iPd 55 13.60 -0.1
 0.8s 298.51nm 6.0mb
 QIS 37.43 267 iPd 55 14.90 -0.4
 0.5s 37.00nm 5.3mb
 iScP 00 20.00
 MNDI 39.19 291 iP 55 31.60 1.6
 RKT 41.14 98 iP 55 44.90 -0.4
 1.0s 120.00nm 5.4mb
 ASPA 41.98 261 iPd 55 51.70 -0.3
 0.6s 387.00nm 6.1mb
 iScP 00 37.50
 iS 01 31.20
 iScS 04 55.80
 WBZ 42.36 266 iPc 55 53.90 -1.1
 0.8s 519.40nm 6.1mb
 iS 00 39.70
 FORR 46.16 250 iPd 56 23.80 -0.6
 MTN 47.46 275 eP 56 32.60 -1.8
 0.3s 150.00nm 6.0mb
 WARB 48.03 256 iPd 56 37.80 -0.9
 0.3s 41.00nm 5.4mb
 KNA 48.64 270 eP 56 42.40 -1.0
 0.5s 192.00nm 5.9mb
 SBA 54.11 183 iPd 57 25.70 3.5X
 KLB 54.87 247 iPd 57 27.20 -1.0
 0.4s 67.00nm 5.3mb
 MEKA 55.10 254 iPd 57 28.80 -1.1
 0.3s 19.00nm 4.9mb
 NWA0 55.11 246 iPd 57 29.30 -0.6
 0.4s 25.00nm 4.9mb
 RKG 55.14 244 iPc 57 29.00 -1.1
 0.4s 69.00nm 5.3mb
 MBL 55.22 260 eP 57 29.30 -1.5
 0.3s 18.00nm 4.9mb
 BAL 55.92 248 iPd 57 34.00 -1.5

0.5s 182.00nm 5.7mb
 MUN 56.11 247 iPc 57 36.00 -0.8
 0.9s 113.00nm 5.2mb
 SPA 65.98 180 iPc 58 42.50 1.5
 1.0s 32.00nm 4.8mb
 i 00 34.00
 TRT 66.24 272 iPd 58 39.80 -3.4X
 0.5s 143.80nm 5.8mb
 KKM 68.97 287 ePd 58 59.30 -0.5
 MAT 72.11 326 eP 59 17.00 -0.6
 1.0s 16.00nm 4.5mb
 eS 07 56.00
 ADK 75.78 2 ePc 59 36.90 -0.8
 0.7s 161.80nm 5.6mb
 SMY 76.74 356 eP 59 42.20 -0.8
 QZH 76.92 305 eP 59 43.50 -1.2
 AIA 78.33 157 eP 59 52.70 1.2
 SSE 78.66 312 Pd 59 53.80 0.0
 1.0s 100.00nm 5.2mb
 eS 09 06.00
 KGM 78.68 277 ePc 59 55.20 0.9
 QIZ 80.70 296 P 00 05.30 0.6
 eS 09 26.00
 NJ2 80.82 311 Pd 00 05.60 0.6
 1.0s 100.00nm 5.3mb
 PP 03 16.00
 S 09 31.00
 SDN 80.93 11 eP 00 04.40 -0.6
 BLP 81.29 46 P 00 08.60 1.2
 SYP 81.55 46 eP 00 09.00 0.1
 PRS 81.74 44 iPc 00 10.40 0.8
 GCC 81.78 43 ePc 00 10.50 0.7
 PCC 81.83 43 ePc 00 10.50 0.5
 BCH 81.88 46 P 00 11.50 1.0
 SAO 81.96 44 eP 00 11.30 0.6
 PRI 82.08 45 iPc 00 12.30 0.8
 NWRM 82.12 42 P 00 12.20 0.8
 BRK 82.14 43 iPc 00 12.30 0.7
 BKS 82.16 43 eP 00 11.50 -0.2
 0.8s 219.00nm 5.7mb
 LLA 82.19 44 ePc 00 12.80 0.9
 MHC 82.19 43 iPc 00 12.80 0.8
 ABL 82.24 46 P 00 13.10 0.6
 ARN 82.27 43 P 00 13.60 1.3
 MDJ 82.48 326 Pd 00 14.00 0.9
 PAS 82.53 48 eP 00 14.00 0.4
 MWC 82.65 48 eP 00 14.00 -0.5
 BAR 82.72 49 eP 00 15.00 0.4
 PLM 82.97 49 eP 00 17.00 0.9
 FHC 82.97 39 ePc 00 16.90 1.2
 RVR 82.98 48 eP 00 15.00 -0.9
 PEC 83.07 48 P 00 16.80 0.4
 0.6s 23.76nm 4.9mb
 SBB 83.08 47 eP 00 17.00 0.5
 WHN 83.15 308 Pd 00 18.00 1.2
 0.8s 100.00nm 5.4mb
 S 09 54.00
 FRI 83.20 44 iPc 00 17.20 0.3
 ISA 83.22 46 eP 00 17.00 -0.1
 SNG 83.30 281 eP 00 19.00 1.2
 e 03 38.90
 CMB 83.41 43 iPc 00 18.10 0.1
 eP 02 13.80 528kmX
 ORV 83.65 42 iPc 00 19.70 0.6
 WDC 83.67 40 iPc 00 19.80 0.6
 SNY 83.84 321 P 00 20.20 0.2
 CLC 83.89 46 eP 00 20.00 -0.4
 TPC 83.95 49 eP 00 21.00 0.2
 CN2 84.09 324 Pd 00 21.50 0.3
 1.0s 20.00nm 4.7mb
 PP 02 20.00
 S 10 02.00
 GSC 84.12 47 eP 00 22.00 0.4
 GLA 84.21 50 eP 00 23.00 0.9
 TIA 84.40 314 Pd 00 23.70 0.8
 ScS 10 07.00
 LBFM 84.54 40 P 00 24.40 0.7
 BONR 84.68 44 P 00 25.20 0.6
 pP 02 24.70 548km
 NVL 84.96 184 iP 00 25.00 0.0
 1.0s 260.00nm 5.8mb
 e 02 26.00
 TNP 85.44 45 P 00 28.50 0.3
 KVN 85.45 44 P 00 28.60 0.5
 pP 02 29.20 553km
 PDB 86.30 13 P 00 30.40 -1.1
 GYA 86.87 301 P 00 35.80 0.7

BMW	87.05	35 P	00 36.30	0.9	LVNJ	116.58	55 PKP	06 28.30	-2.1X		1.0s	133.00nm		
BJI	87.21	316 eP	00 37.50	1.3	GAR	119.65	302 iPKP	06 36.30	-0.2	WTS	151.73	351 ePKP	07 33.50	0.1
	2.0s	72.00nm		5.1mb	BNH	119.65	51 PKP	06 25.60	-10.5X	PVL	151.79	319 iPKPc	07 34.00	0.2
		ePP	02 32.00		FRB	120.89	29 ePKP	06 33.00	-4.8X	MOX	152.07	344 ePKP	07 34.50	0.5
		eS	10 35.00			0.6s	31.00nm				i	07 41.70		
SVW	87.24	12 ePc	00 35.60	-0.4	SCH	122.72	39 ePKP	06 40.00	-1.7			e	09 46.00	
NST	87.38	288 eP	00 42.50	5.0X	DAG	126.54	5 iPKPc	06 46.90	-1.5	BUD	152.22	332 e(PKP)	07 41.00	6.7X
SHW	87.40	36 P	00 38.60	1.4		0.9s	16.81nm			SRO	152.27	333 ePKP	07 33.60	-0.8
VGB	87.77	37 P	00 39.00	0.2	PDCR	127.18	129 ePKP	06 50.80	-0.6			i	07 41.80	
GMW	87.97	35 P	00 40.00	0.3			e	06 55.50				i	09 46.90	
LON	87.98	36 P	00 39.80	0.0	BUL	127.87	215 iPKPd	06 52.00	-0.8	BZS	152.36	326 ePKP	07 33.00	-1.6
KHT	88.34	287 eP	00 44.00	2.0		1.6s	82.50nm			ZST	152.45	335 ePKP	07 34.60	0.0
PGC	88.34	34 eP	00 42.00	0.8			i	09 21.80				i	07 42.70	
	0.8s	100.00nm		5.7mb	SOB1	128.10	125 ePKP	06 52.80	-0.5			e	07 55.00	
TIY	88.36	313 Pd	00 43.00	1.2	KEV	131.67	348 ePKP	06 58.00	-0.3			e	09 49.70	
		PP	02 43.50		SOD	133.73	346 iPKP	07 01.20	-1.1	BNS	152.68	350 iPKPd	07 43.00	8.2X
		SKS	10 20.00		KAF	138.09	342 ePKP	07 01.00	-9.7X		1.0s	55.00nm		
RMW	88.43	35 P	00 42.40	0.5	OBN	138.98	329 ePKP	07 12.00	-0.5	RZN	153.01	316 iPKPd	07 44.00	8.1X
MCW	88.67	34 P	00 43.80	0.9	NUR	139.86	341 ePKP	07 04.00	-9.9X	GRF	153.05	344 ePKP	07 35.60	0.2
TTA	88.87	11 ePc	00 43.40	-0.2			i	07 12.80				ec	07 44.00	
	1.4s	86.80nm		5.5mb	UPP	142.26	346 iPKP	07 13.00	-5.1X			e	07 57.80	
MSU	88.98	47 P	00 45.70	0.9	NB2	142.34	351 PKP	07 14.00	-4.3X	ENN	153.05	352 ePKP	07 35.50	0.2
		pP	02 47.00	551km		0.8s	20.80nm			MEM	153.19	351 PKP	07 43.70	8.2X
PMR	89.01	14 ePc	00 43.50	-0.6	CSTJ	146.88	290 PKP	07 28.65	1.8	VTs	153.43	319 iPKP	07 45.00	8.6X
	0.7s	56.90nm		5.6mb	MUD	147.05	351 iPKPc	07 28.40	2.2X	SNF	153.49	354 PKP	07 44.50	8.5X
ANM	89.17	6 eP	00 45.00	0.2		0.6s	24.00nm					ec	07 58.90	
SIT	89.21	23 eP	00 46.00	0.9	BSD	147.17	344 iPKPc	07 29.00	2.6X	MMB	153.69	317 iPKPd	07 44.00	7.4X
	1.0s	60.00nm		5.5mb		0.6s	80.00nm			DOU	153.87	353 PKP	07 45.10	8.6X
KMI	89.37	298 Pc	00 49.00	2.1			e	09 30.00				e	08 00.60	
	1.5s	70.00nm		5.4mb	GHZJ	147.20	289 PKP	07 25.62	-1.8	KBA	154.76	338 e(PKP)	07 38.00	-0.1
DUG	89.46	45 P	00 47.00	0.1	MDSJ	147.21	291 PKP	07 25.81	-1.6		0.7s	7.20nm		
	1.2s	33.61nm		5.1mb	COP	147.21	347 iPKPc	07 29.50	3.0X			i	07 47.30	
CHG	89.76	291 eP	00 44.00	-4.5X		0.7s	90.41nm					i	08 06.30	
TOA	90.14	15 eP	00 49.90	0.5	EDR	147.23	3 ePKPc	07 30.00	3.5X	PTJ	154.77	333 ePKP	07 38.00	0.0
PPM	90.16	69 (P)	00 52.50	1.5		0.8s	180.00nm			CDF	155.12	348 ePKP	07 37.80	-0.6
DAU	90.59	45 P	00 52.60	0.3	BHL	147.48	296 PKP	07 31.00	3.2X		1.1s	12.20nm		
DPW	90.60	36 P	00 52.00	0.2	EDU	147.58	3 ePKPc	07 31.10	4.0X	LJU	155.22	335 e(PKP)	07 38.00	-0.5
PNT	90.72	35 ePc	00 52.70	0.4		0.5s	129.00nm			VBY	155.38	334 e(PKP)	07 39.80	1.1
	0.9s	82.00nm		5.7mb	ELO	147.62	4 ePKPc	07 31.30	4.1X	FLN	155.45	1 ePKP	07 38.40	-0.3
LVN	90.91	128 eP	00 54.50	0.9		0.9s	113.00nm				1.2s	41.65nm		
ALO	91.13	52 iPc	00 54.70	-0.1	EBH	147.85	4 ePKPc	07 32.00	4.5X	VOY	155.47	336 e(PKP)	07 38.60	-0.3
	0.9s	33.61nm		5.4mb		0.8s	184.00nm			FEL	155.49	347 ePKP	07 38.88	-0.1
		epP	02 53.00	532kmX	EAB	147.86	5 ePKPc	07 31.90	4.4X	HAU	155.68	350 ePKP	07 38.90	-0.2
ANMO	91.13	52 P	00 55.50	0.8		0.8s	122.00nm				1.2s	11.90nm		
	1.0s	115.00nm		5.9mb	ATZ	147.93	294 ePKP	07 33.00	4.5X	BSF	155.77	349 ePKP	07 39.00	-0.3
PTI	91.18	43 P	00 55.60	0.9	JVI	147.95	292 ePKP	07 35.00	6.4X		1.2s	20.85nm		
CD2	91.21	303 iPc	00 56.80	1.8	EDI	148.19	3 ePKP	07 32.60	4.6X	GRR	155.82	1 ePKP	07 38.80	-0.4
	1.2s	60.00nm		5.5mb		0.8s	109.00nm			LPF	156.17	2 ePKP	07 39.30	-0.3
		SKS	10 35.50		ESY	148.23	3 ePKPc	07 32.70	4.6X		1.1s	22.00nm		
		eS	11 07.60			9.0s	147.00nm			LOR	156.74	353 ePKP	07 40.20	-0.3
NEW	91.42	37 P	00 55.60	0.0	EAU	148.26	4 ePKPc	07 33.10	4.9X		1.1s	22.00nm		
	0.9s	13.16nm		5.0mb		0.7s	224.00nm			BGF	157.54	355 ePKP	07 41.40	0.0
SAN	91.70	128 eP	00 58.50	1.1	EBL	148.35	3 ePKPc	07 33.30	5.0X		0.9s	12.30nm		
PCH	91.72	128 iPd	00 58.60	1.1		0.8s	94.00nm			MFF	157.61	0 ePKP	07 41.50	0.0
PEL	91.84	128 iPd	00 59.50	1.5	RMN	148.67	289 ePKP	07 35.00	5.2X		1.4s	43.55nm		
IMA	92.17	10 ePc	00 58.30	-0.4	EKA	148.79	3 PKPc	07 32.70	3.7X	TCF	157.86	356 ePKP	07 41.60	-0.2
	0.9s	10.70nm		4.9mb		0.4s	16.20nm				1.0s	18.00nm		
FBA	92.21	13 ePc	00 57.90	-0.9	VRJ	149.45	322 ePKPd	07 37.00	6.7X	RJF	158.80	357 ePKP	07 43.10	0.2
	0.9s	37.60nm		5.4mb	KRA	149.84	334 ePKP	07 30.70	0.0		1.4s	47.90nm		
LRM	92.71	40 eP	01 01.60	-0.2		0.8s	85.00nm			EPF	161.18	359 ePKP	07 45.50	0.1
BW06	92.90	44 P	01 02.50	-0.3			i	07 36.50			1.0s	17.00nm		
	1.2s	50.23nm		5.5mb	MLR	150.12	322 ePKP	07 32.00	0.5	LIC	161.52	164 PKP	07 47.04	0.5
LZH	93.53	308 eP	01 06.70	1.0	SPC	150.39	333 ePKP	07 32.20	0.3		1.1s	49.50nm		
	1.5s	28.00nm		5.2mb			i	07 38.60		KIC	161.72	165 PKP	07 47.12	0.4
GOL	94.15	48 P	01 08.80	0.2			i	09 41.80			1.0s	38.50nm		
	0.9s	32.20nm		5.5mb	KSP	150.53	339 ePKP	07 31.60	-0.2	TIC	161.93	164 PKP	07 47.36	0.4
		pP	03 09.60	544km		0.6s	172.00nm				0.9s	33.50nm		
GLD	94.28	48 P	01 09.80	0.7			ic	07 38.20		LKO	164.52	159 PKP	07 49.58	0.1
	1.0s	35.00nm		5.5mb			e	09 40.40			0.9s	34.00nm		
SES	95.92	37 ePc	01 15.10	-0.9			ic	09 45.60		IFR	169.67	25 iPKP	07 55.00	2.2X
RSSD	97.07	45 P	01 21.40	-0.2	CMP	150.76	322 ePKPc	07 37.00	4.6X			i	09 12.00	
	0.8s	14.02nm		5.3mb	WIT	150.95	352 ePKP	07 34.00	1.7		S.D. = 1.0 on 222 of 271 obs.			
GTA	97.85	310 eP	01 25.20	0.0	WIT	150.95	352 ePKP	07 40.00	7.7X		APR 06, 1991 04h 59m 49.89±0.57s			
	0.8s	10.00nm		5.2mb			e	09 48.00			40.514 N ± 4.6km 22.734 E ± 4.9km			
		PP	03 26.60		CLL	151.10	343 ePKP	07 33.00	0.4		DEPTH = 10.0km (geophysicist)			
		SP	04 21.60			1.7s	29.00nm			GREECE	(364)			
		SKS	11 09.40				i	07 39.50						
INK	98.29	16 ePc	01 25.00	-1.3			pPKP	09 46.70		THE	0.21	56 iPd	59 54.30	-0.2
YKA	100.61	25 ePd if f01	01 35.00	-1.8	ETA	151.13	8 ePKP	07 38.50	5.9X			eS	59 57.38	
	0.6s	1.10nm		4.5mb	BRG	151.23	341 ePKP	07 32.00	-0.8			iS	59 58.50	-0.6
GKN	105.39	294 Pd if f	02 00.00	0.9			i	07 39.70		LIT	0.45	204 ePc	59 58.50	-0.6
GKN	105.39	294 PKP	06 08.38	-1.3			i	07 49.80				iS	00 05.78	
KOD	105.47	274 ePKP	06 18.70	8.3X			ipPKP	09 43.60		GRG	0.51	330 ePc	59 59.86	-0.4
MBC	106.75	13 ePd if f02	03 00.00	-0.8	ECB	151.38	9 ePKP	07 39.20	6.3X			iS	00 06.58	
MBC	106.75	13 ePKP	06 08.00	-2.6X	JMB	151.42	316 ePKP	07 40.00	6.6X	SOH	0.56	57 ePc	00 00.94	-0.4
	0.9s	5.00nm			PSZ	151.51	331 ePKP	07 33.00	-0.4			eS	00 08.94	
PPD	112.22	129 ePKP	06 22.30	-0.3	ECP	151.61	8 ePKP	07 39.60	6.3X	KNT	0.66	11 ePc	00 02.62	-0.4

KNIM 2.18 85 iPc 28 07.31 -2.8
eS 28 32.91
MTU 2.25 95 ePc 28 09.01 -2.0
CUT 2.34 22 eP 28 12.14 -0.1
SCM 2.82 54 eP 28 17.27 -1.8
VZW 2.86 71 eP 28 16.55 -3.0
VLZ 2.98 70 eP 28 18.54 -2.6
TRF 3.33 14 eP 28 25.45 -0.8
TOA 3.43 54 ePc 28 25.97 -1.6
RND 3.53 25 eP 28 28.86 -0.1

47 obs. associated

APR 06, 1991 06h 28m 39.67± 0.70s
25.358 S ± 7.0km 69.135 W ± 8.8km
DEPTH = 112.2 ± 9.3 km
4.3mb (1 obs.)

NORTHERN CHILE (123)

ANT 2.02 324 iPc 29 13.20 -0.2
iS 29 35.50
SLA 3.36 80 iPc 29 32.00 0.5
RTL 5.98 175 iPc 30 07.40 0.2
S 31 10.80

RTCB 6.11 177 eP 30 09.30 0.2
S 31 17.00

CFA 6.28 173 ePd 30 10.80 -0.5
eS 31 17.80

CCH 8.41 20 eP 30 57.00 16.4X
CNCB 8.57 7 P 30 50.00 6.9X
i 33 18.00

ARE 9.12 346 eP 30 45.60 -4.6X
iS 32 23.00

PPD 16.66 82 eP 32 28.00 0.3
e 33 58.20

VAO 20.36 88 eP 32 55.30 -14.1X
e 33 07.40
e 34 02.30
e 34 19.30

BMA 22.96 89 (P) 33 34.00 -1.1
YKA 94.74 341 eP 41 49.10 0.2
0.6s 0.80nm 4.3mb

WB2 129.51 209 ePKP 47 37.90 0.5
0.6s 2.10nm

GBA 146.48 104 PKP 48 11.00 2.7X
S.D. = 0.7 on 9 of 14 obs.

? APR 06, 1991 07h 29m 36.21± 1.44s
66.927 N ± 11.4km 20.849 E ± 16.9km
DEPTH = 10.0km (geophysicist)

SWEDEN (536)

MD 3.0 (BER).

KTK1 2.28 22 eP 30 14.28 -0.2
TRO 2.81 346 eP 30 22.10 0.2

LOF 3.06 297 eP 30 25.18 -0.2
NRA0 7.45 218 P 31 27.40 0.0
S 32 48.60

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

? APR 06, 1991 07h 46m 33.79± 1.52s
45.720 N ± 19.0km 14.886 E ± 7.2km
DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)

MD 2.1 (LJU). Felt (IV) at

Kocevje.

CEY 0.32 274 e(Pg) 46 40.90 0.4
eSg 46 46.30

LJU 0.41 323 iPg 46 42.40 0.3
eSg 46 48.50

VOY 0.76 295 e(Pg) 46 48.00 -0.7
eSg 46 59.70

PTJ 0.77 76 iPg 46 48.90 0.0
eSg 47 02.60

KBA 1.73 322 eP 47 21.00 16.8X
eSg 47 34.00

S.D. = 0.9 on 4 of 5 obs.

APR 06, 1991 09h 36m 41.52± 0.53s
40.997 N ± 5.7km 22.400 E ± 4.2km
DEPTH = 10.0km (geophysicist)

GREECE (364)

ML 2.0 (SKO).

GRG 0.04 178 ePc 36 44.04 0.4
eS 36 45.44

VAY 0.35 22 iPg 36 48.40 -0.3

iSg 36 53.30

KNT 0.41 66 ePc 36 50.32 0.4
eS 36 55.80

THE 0.56 130 ePc 36 52.84 -0.1
eS 37 01.40

SOH 0.74 103 iPd 36 55.52 -0.6
eS 37 07.08

FNA 0.80 255 ePc 36 57.24 0.1
eS 37 07.44

SRS 0.91 82 iPc 36 58.52 -0.4
eS 37 10.84

MMB 1.16 59 ePg 37 04.00 0.7
eSg 37 20.00

OHR 1.22 276 ePg 37 04.00 -0.2
eSg 37 20.50

RZN 1.88 68 ePg 37 19.00 4.9X
S.D. = 0.5 on 9 of 10 obs.

& APR 06, 1991 11h 00m 25.07s
62.706 N 150.669 W
DEPTH = 84.0km
CENTRAL ALASKA (1)
<AEIC>.

CUT 0.35 148 iPc 00 38.35 0.1
iS 00 48.18

HUR 0.55 60 iPd 00 39.74 -0.1
eS 00 50.78

TRF 0.77 13 ePd 00 42.15 0.0
eS 00 55.31

SKT 0.83 209 iPd 00 42.39 -0.3
eS 00 55.64

RND 1.09 49 iPd 00 45.37 -0.4
S 01 00.78

PWA 1.12 160 iPc 00 46.22 0.1
eS 01 03.44

GHO 1.24 138 ePc 00 47.78 0.1
eS 01 05.96

SUA 1.25 182 ePd 00 47.72 -0.1
eS 01 06.32

MCK 1.30 37 ePd 00 48.05 -0.3
eS 01 05.54

PLRM 1.33 146 ePc 00 48.25 -0.5
eS 01 09.99

NCG 1.48 209 ePd 00 50.25 -0.6
eS 01 09.99

PMS 1.56 160 ePc 00 51.45 -0.3
eS 01 11.51

BWN 1.57 20 ePd 00 51.58 -0.3
eS 01 12.69

CRP 1.61 207 eP 00 52.29 -0.2
eS 00 53.15

BGL 1.66 210 iPd 00 52.38 -0.8
eS 01 15.18

SPU 1.66 204 ePd 00 52.38 -0.8
eS 01 15.18

KNK 1.66 140 ePc 00 52.41 -0.7
eS 01 15.89

CKL 1.71 208 ePd 00 53.37 -0.4
eS 00 54.04

SCM 1.79 118 ePc 00 54.04 -0.9
eS 01 00.20

NKA 1.99 188 eP 01 00.20 2.8
eS 00 56.59

NEA 2.01 20 ePd 00 56.59 -1.1
eS 00 58.07

WRH 2.11 32 iPd 00 58.07 -1.1
eS 00 59.79

TOA 2.18 104 eP 00 59.79 -0.3
eS 01 01.19

SLKM 2.22 174 eP 01 01.19 0.6
eS 01 01.64

RDT 2.29 202 ePd 01 01.64 -0.1
eS 01 00.83

CCB 2.33 32 iPd 01 00.83 -1.2
eS 01 01.81

DFR 2.33 205 eP 01 01.81 -0.4
eS 01 02.40

SDG 2.38 92 eP 01 02.40 -0.4
eS 01 01.82

HDA 2.38 43 iPd 01 01.82 -1.0
eS 01 03.38

PAX 2.40 81 eP 01 03.38 0.2
eS 01 02.13

RDS 2.41 27 eP 01 02.13 -1.0
eS 01 03.49

NCT 2.41 208 eP 01 03.49 0.2
eS 01 03.21

RDN 2.42 205 eP 01 03.21 -0.2
eS 01 02.95

REF 2.43 204 eP 01 02.95 -0.7
eS 01 03.40

DDM 2.43 61 eP 01 03.40 -0.2
eS 01 04.27

RDW 2.45 206 eP 01 04.27 0.3
eS 01 04.03

RS2 2.46 205 eP 01 04.03 -0.1
eS 01 04.20

RSO 2.46 205 eP 01 04.20 0.1
eS 01 03.00

TTA 2.46 278 ePc 01 03.00 -1.0
eS 01 02.81

GLI 2.50 136 eP 01 02.81 -1.6
eS 01 04.91

RED 2.51 205 eP 01 04.91 0.3
eS 01 03.51

MDM 2.51 24 iPd 01 03.51 -1.1
eS 01 03.94

FBA 2.55 29 ePd 01 03.94 -1.1
eS 01 03.46

VZW 2.56 128 eP 01 03.46 -1.8
eS 01 03.56

VLZ 2.59 126 eP 01 03.56 -2.1
eS 01 06.29

GLM 2.71 31 iPc 01 06.29 -1.1
eS 01 06.97

KNIM 2.75 148 eP 01 06.97 -0.9
eS 01 09.33

LTI 3.00 152 eP 01 09.33 -2.0
eS 01 11.68

MTU 3.09 151 eP 01 11.68 -0.9

CNPM 3.20 185 eP 01 14.24 0.1

PDB 3.39 212 eP 01 15.79 -0.9
GLB 3.47 108 eP 01 15.69 -2.2

52 obs. associated

APR 06, 1991 11h 28m 40.59± 0.34s

35.739 N ± 4.7km 28.381 E ± 4.0km

DEPTH = 69.9 ± 5.5 km

4.4mb (25 obs.)

EASTERN MEDITERRANEAN SEA (371)

MD 4.2 (HLW), 4.1 (ATH).

NPS 2.31 259 ePn 29 18.00 0.9

PPCY 3.35 104 eP 29 34.00 2.3

PRK 3.88 335 ePn 29 38.10 -1.0

CSS 4.12 99 eP 29 43.50 1.0

eSn 30 30.80

ATH 4.35 302 ePn 29 46.50 0.7

VLI 4.51 284 ePn 29 47.70 -0.2

RDO 5.84 338 ePn 30 05.80 -0.7

ADI 6.25 113 iPd 30 11.60 -0.6

BHL 6.25 105 Pn 30 08.00 -4.4X

eSn 31 11.00

KDZ 6.34 339 eP 30 09.00 -4.5X

HLW 6.37 156 ePn 30 14.50 0.6

eSn 31 21.50

KOT 6.48 152 ePn 30 14.00 -1.4

eSn 31 19.50

RZN 6.59 335 iPd 30 17.00 -0.2

VLS 6.70 294 ePn 30 17.70 -0.7

SHMJ 6.81 114 P 30 19.56 -0.5

MMB 6.88 329 ePd 30 21.00 0.0

KZN 6.93 313 ePn 30 22.50 0.8

PLD 6.97 337 eP 30 26.00 3.8X

BURJ 7.08 117 P 30 23.34 -0.5

SALJ 7.12 119 Pd 30 23.64 -0.7

JARJ 7.19 117 Pd 30 24.60 -0.7

KFNJ 7.20 120 P 30 25.55 0.2

MASJ 7.30 121 Pd 30 26.09 -0.8

MKRJ 7.35 123 P 30 26.47 -1.1

MKT 7.41 128 eP 30 28.00 -0.3

eS 31 47.00

LISJ 7.44 125 P 30 28.42 -0.1

PRNI 7.73 132 iPc 30 32.00 -0.7

MDSJ 7.73 120 P 30 33.24 0.4

PVL 7.83 343 eP 30 35.00 1.0

KEK 7.87 303 ePn 30 35.30 0.6

JRDJ 7.89 127 P 30 35.87 0.9

VTS 7.93 331 iP 30 37.00 1.4

SKO 8.25 321 eP 30 40.50 0.7

GHZJ 8.41 125 P 30 36.10 -6.1X

HOL 8.56 137 ePc 30 45.07 1.0

eS 32 10.00

BADA 9.12 140 ePc 30 51.27 -0.5

eS 32 20.00

LCI 9.42 302 P 30 53.10 -2.7

ULC 9.45 314 iPnd 30 57.65 1.3

PVY 9.46 319 iPnd 31 00.84 4.3X

IVA 9.69 320 iPnc 31 03.72 4.1X

TTG 9.74 316 iPnd 31 00.22 0.0

BDV 9.89 314 iPnc 31 01.04 -1.3

MLR 9.92 350 eP 31 04.50 1.7

NKY 10.13 317 iPnd 31 06.87 1.2

BRT 10.17 304 P 31 04.60 -1.5

HCY 10.19 314 iPnd 31 05.72 -0.6

PLE 10.27 320 iPc 31 08.90 1.3

TDS 10.31 296 P 31 06.00 -2.1

BRY 10.44 316 iPnd 31 10.52 0.6

ATN 10.62 287 P 31 09.00 -3.2X

MGR 11.04 297 P 31 14.80 -3.0X

MNO 11.19 285 P 31 18.60 -1.4

HVAR 11.83 312 eP 31 26.00 -2.4

eS 33 34.80

DUI 12.37 303 P 31 35.50 -0.2

SDI 12.83 302 P 31 42.60 0.9

ARV 14.19 308 P 32 00.00 0.6

SRO 14.19 331 iP 32 05.30 5.9X

ZST 14.99 330 eP 32 14.20 4.5X

e 44 55.00

SFI 15.08 308 P 32 12.60 1.7

VKA 15.37 328 e(P) 32 19.00 4.4X

FVI 15.96 318 P 32 22.00 0.0

KBA 15.96 320 iPd 32 22.60 0.4

0.5s 8.30nm 4.1mb

i 32 25.70

CTI 16.28 314 P 32 26.70 0.5

BOB 17.00 308 P 32 37.40 2.2

06d 11h

OGA 17.10 316 iPc 32 39.50 3.0X
 KSP 17.44 334 eP 32 40.20 -0.2
 FUR 17.73 320 eP 32 43.90 -0.2
 0.9s 37.00nm 4.6mb
 VDL 17.80 313 eP 32 47.20 2.1
 VAI 17.92 310 P 32 46.10 -0.3
 SBF 17.99 303 eP 32 46.70 -0.7
 0.9s 34.40nm 4.6mb
 LLS 18.27 313 ePc 32 50.50 -0.4
 ORO 18.31 309 P 32 50.90 -0.4
 BRG 18.36 330 iP 32 52.00 0.2
 0.8s 12.00nm 4.2mb
 FRF 18.44 302 eP 32 53.40 0.6
 0.7s 17.65nm 4.4mb
 MMK 18.51 310 eP 32 52.80 -1.0
 GRF 18.74 323 eP 32 56.80 0.5
 DIX 18.87 310 ePc 32 57.90 -0.2
 LPG 19.04 307 eP 32 59.80 -0.4
 0.6s 18.50nm 4.5mb
 LPL 19.06 307 eP 32 59.20 -1.1
 0.5s 18.95nm 4.6mb
 CLL 19.08 329 iP 32 58.60 -1.6
 1.4s 25.00nm 4.3mb
 EMS 19.16 309 eP 33 00.30 -1.0
 RSL 19.20 308 P 33 00.73 -1.0
 MOX 19.20 326 eP 33 02.50 1.0
 BSF 20.05 314 eP 33 09.50 -1.0
 0.5s 7.30nm 4.3mb
 CDF 20.06 316 eP 33 09.40 -1.2
 0.7s 9.90nm 4.3mb
 HAU 20.40 314 eP 33 13.50 -0.5
 0.5s 8.75nm 4.3mb
 Z 21s 0.05um 2.9msz
 SMF 21.36 308 eP 33 23.40 -0.3
 0.6s 18.95nm 4.6mb
 LBF 21.40 309 eP 33 24.60 0.4
 0.5s 8.00nm 4.3mb
 LOR 21.58 310 eP 33 26.20 0.2
 0.8s 8.75nm 4.2mb
 Z 20s 0.05um 2.9msz
 AVF 21.72 308 eP 33 27.10 -0.2
 0.8s 14.10nm 4.4mb
 SSF 21.73 309 eP 33 27.10 -0.3
 0.8s 24.20nm 4.7mb
 BGF 21.96 307 eP 33 30.20 0.4
 0.6s 10.80nm 4.5mb
 RJF 22.46 303 eP 33 36.20 1.6
 Z 21s 0.05um 2.9msz
 MFF 23.93 306 eP 33 50.30 1.4
 0.6s 8.10nm 4.3mb
 LDF 24.56 310 eP 33 54.80 -0.2
 0.5s 8.00nm 4.4mb
 FLN 24.85 311 eP 33 56.70 -1.0
 NUR 24.90 356 eP 34 00.00 1.9
 LPF 24.95 309 eP 33 58.20 -0.4
 0.4s 5.15nm 4.3mb
 GRR 24.95 309 eP 33 58.00 -0.7
 0.5s 10.95nm 4.6mb
 HFS 26.19 343 eP 34 08.80 -1.3
 0.3s 2.60nm 4.2mb
 NB2 27.59 342 P 34 21.20 -1.6
 0.5s 0.90nm 3.6mb
 TIC 42.14 235 P 36 29.80 2.0
 KIC 42.17 234 P 36 29.50 1.5
 LIC 42.46 234 P 36 31.80 1.5
 FRB 61.50 330 eP 38 51.00 -0.9
 SCH 64.42 320 eP 39 11.00 -0.3
 MBC 66.43 352 ePc 39 24.00 0.1
 0.5s 4.00nm 4.6mb
 GAC 73.84 315 eP 40 11.00 1.7
 INK 75.39 353 eP 40 17.50 -0.3
 YKA 77.68 343 eP 40 30.10 -0.6
 0.6s 0.60nm 3.7mb
 S.D. = 1.1 on 98 of 110 obs.

APR 06, 1991 11h 56m 03.80 ± 0.92s
 40.449 N ± 8.8km 21.844 E ± 6.5km
 DEPTH = 10.0km (geophysicist)

GREECE (364)

FNA 0.49 313 ePc 56 13.54 -0.2
 eS 56 22.22
 LIT 0.60 125 ePc 56 15.22 -0.8
 eS 56 24.78
 GRG 0.66 40 ePc 56 16.66 -0.3
 iS 56 29.58

VAY 1.03 32 ePn 56 23.00 -0.3
 OHR 1.03 310 ePn 56 23.70 0.3
 SOH 1.21 72 ePd 56 26.86 0.5
 eS 56 45.22
 PAIG 1.50 110 iPc 56 31.46 0.7
 S.D. = 0.7 on 7 of 7 obs.

APR 06, 1991 12h 44m 25.24 ± 0.75s
 26.208 S ± 5.1km 69.628 W ± 10.6km
 DEPTH = 70.2 ± 8.3 km
 4.6mb (7 obs.)

NORTHERN CHILE

(123)

ANT 2.59 344 iPc 45 07.20 1.5
 iS 45 30.00
 RTRS 3.95 178 iPc 45 30.80 6.1X
 RTLL 5.20 169 e(P) 45 46.20 3.8X
 ZON 5.38 171 eP 45 49.00 4.1X
 CFA 5.52 168 ePd 45 50.80 4.1X
 JACH 6.51 187 iP 46 02.60 2.1
 ROCH 6.85 190 eP 46 05.00 -0.4
 PEL 6.97 187 eP 46 06.50 -0.4
 SAN 7.28 187 eP 46 12.00 0.9
 PCH 7.43 186 eP 46 14.00 0.7
 LCCH 7.44 193 iP 46 12.00 -1.3
 TACH 7.51 188 eP 46 13.50 -0.8
 LNV 7.87 191 iP 46 17.00 -2.3
 CCH 9.36 21 P 46 39.60 -0.5
 CNCB 9.48 10 iPc 46 41.30 -0.6
 LPB 9.73 9 eP 46 38.00 -7.2X
 i 46 45.00

ARE 9.85 349 eP 46 43.00 -3.8X
 iS 48 26.50
 SIV 12.92 40 iPc 47 23.00 -4.6X
 NNA 15.69 333 iPc 47 50.00 -13.6X
 0.8s 18.66nm

PPD 17.23 80 eP 48 19.30 -3.4X
 VAO 20.85 86 eP 49 03.20 -0.3
 i 49 06.80
 i 49 35.50

BAO 22.75 67 eP 49 22.00 -0.5
 BMA 23.44 87 eP 49 30.70 1.6
 e 50 02.90

SPA 63.95 180 iPd 54 54.90 1.8
 1.0s 12.00nm 4.8mb
 i 55 26.00

ALO 70.10 328 eP 55 32.00 -0.2
 0.9s 2.73nm 4.2mb
 e 55 55.00

ANMO 70.11 328 eP 55 32.20 0.0
 1.0s 1.75nm 3.9mb
 LIC 70.38 72 P 55 33.70 -0.3

0.6s 3.00nm 4.4mb
 TIC 70.60 72 P 55 35.10 -0.3
 KIC 70.69 72 P 55 35.70 -0.3

0.6s 8.00nm 4.8mb
 LKO 71.61 69 Pd 55 41.00 -0.5
 0.9s 14.50nm 4.9mb

MAW 80.03 163 iPc 56 29.60 1.5
 LRM 81.56 331 eP 56 37.60 0.9
 YKA 95.39 341 eP 57 41.30 -1.2

0.7s 1.30nm 4.5mb
 WB2 128.56 209 ePKP 03 25.90 -0.5
 0.6s 5.30nm

GAR 144.20 59 ePKP 03 52.90 -2.0
 KOD 145.08 111 ePKP 03 57.70 0.4
 POO 145.46 95 iPKPc 03 57.20 -0.3

GBA 146.70 106 PKPc 04 00.60 1.1
 0.7s 22.40nm
 HYB 149.26 100 iPKPd 04 08.20 4.6X

1.0s 35.00nm

S.D. = 1.2 on 29 of 39 obs.

APR 06, 1991 13h 47m 28.48 ± 0.73s
 44.323 N ± 6.3km 7.381 E ± 7.5km
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY

(545)

ML 1.7 (GEN).

STV 0.09 207 P 47 31.11 0.0
 S 47 32.27
 ENR 0.10 164 P 47 31.25 0.0
 S 47 32.48
 P22 0.27 312 P 47 34.43 0.2
 S 47 38.74
 ROB 0.35 94 P 47 35.87 0.1

S 47 41.10
 BHB 0.53 351 P 47 38.94 -0.2
 S.D. = 0.2 on 5 of 5 obs.

APR 06, 1991 14h 21m 47.26 ± 0.65s
 6.040 S ± 3.7km 76.998 W ± 6.1km
 DEPTH = 40.3 ± 6.0 km
 5.1mb (27 obs.)

NORTHERN PERU

(111)

TUNG 4.81 342 P 23 00.00 0.4
 NNA 5.91 179 iPc 23 13.50 -1.3
 0.7s 157.53nm 5.7mb

eS 24 20.50
 PT10 6.00 180 e(P) 23 15.50 -0.4
 iS 24 19.00

GGP 6.04 345 eP 23 19.80 2.7
 YANA 6.09 345 eP 23 20.40 2.7
 CAYA 6.16 351 eP 23 16.70 -2.0

HUA 6.19 165 iPc 23 19.60 0.6
 i 23 58.50
 iS 24 57.30

ARE 11.68 153 eP 24 36.00 1.3
 LPB 13.59 141 P 25 00.00 -0.2
 Z 15s 8.67um

S 28 08.00
 LR 30 56.00
 CNCB 13.87 141 P 25 03.20 -0.9

i 25 14.00
 CCH 15.48 138 P 25 31.50 6.6X
 SDV 16.13 23 eP 25 35.80 2.8X

CEOS 17.28 30 iP 25 46.90 -0.5
 TOV 17.28 25 eP 25 52.50 5.1X
 SIV 18.48 124 P 26 00.40 -1.8

ANT 18.67 161 e(P) 26 02.50 -1.9
 ROCH 27.37 169 eP 27 31.20 0.1
 PEL 27.60 169 iPc 27 33.00 0.0

LCCH 27.76 170 eP 27 35.00 0.7
 SAN 27.90 169 eP 27 36.00 0.3
 PCH 28.10 168 eP 27 37.70 0.2

LNV 28.26 170 eP 27 38.00 -0.8
 PPD 29.48 125 eP 27 52.20 2.2
 BAO 30.00 111 eP 27 49.00 -5.9X

PDCR 37.90 103 eP 29 02.30 -0.4
 e 29 12.20
 CAI 39.62 93 eP 29 16.40 -0.7

TUL 45.31 338 ePd 30 01.60 -1.5
 1.2s 30.20nm 5.1mb
 ALO 49.32 328 ePc 30 34.70 -0.1

1.0s 11.25nm 4.9mb
 ANMO 49.32 328 P 30 35.00 0.2
 1.3s 24.04nm 5.1mb

GOL 52.51 332 P 30 59.00 -0.1
 GLA 52.92 320 eP 31 01.00 -0.9
 TPC 54.37 320 eP 31 13.00 0.4

RVR 55.16 319 eP 31 35.00 16.7X
 RSSD 55.56 337 P 31 21.50 0.2
 1.2s 21.87nm 5.1mb

GSC 55.61 321 eP 31 22.00 0.4
 SBB 55.88 319 eP 31 23.00 -0.6
 CLC 56.44 321 eP 31 27.00 -0.5

BW06 56.88 332 P 31 29.00 -1.8
 1.4s 16.44nm 4.9mb
 ISA 56.90 320 eP 31 30.00 -0.9

TNP 57.65 323 P 31 36.00 -0.3
 1.3s 12.76nm 4.8mb
 LRM 60.54 332 eP 31 55.50 -0.7

SCH 61.23 7 eP 32 00.00 -0.4
 SES 63.44 336 ePc 32 14.40 -0.9
 FFC 64.04 344 ePc 32 17.90 -1.1

1.2s 21.00nm 5.1mb
 NEW 64.51 332 P 32 21.50 -0.8
 1.3s 37.74nm 5.3mb

EDM 66.54 337 eP 32 34.00 -1.2
 RUV 69.54 256 iP 32 55.00 0.5
 1.2s 45.00nm 5.4mb

TPT 69.77 256 iP 32 56.40 0.5
 1.2s 50.00nm 5.4mb
 VAH 69.78 256 iP 32 56.30 0.3

1.2s 40.00nm 5.3mb
 FRB 69.89 4 eP 32 54.00 -1.7
 PMO 70.04 256 iP 32 58.00 0.4

1.2s 70.00nm 5.5mb
 PAE 71.62 253 iP 33 07.60 0.5
 1.2s 80.00nm 5.6mb

LKO 72.81 78 Pc 33 14.98 0.7
 0.4s 8.00nm 5.0mb

LIC 72.86 82 P 33 15.18 0.6
 TIC 72.92 81 P 33 15.62 0.6
 0.8s 11.00nm 4.9mb
 KIC 73.16 82 Pc 33 17.16 0.8
 0.7s 17.50nm 5.1mb
 YKA 74.14 343 eP 33 19.30 -1.8
 0.8s 3.60nm 4.4mb
 INK 83.86 342 ePc 34 13.50 -0.2
 NVL 83.95 161 eP 34 15.00 0.8
 1.2s 270.00nm 6.2mb X
 SPA 84.00 180 iPc 34 15.80 1.1
 1.0s 46.50nm 5.5mb
 Z 20s 14.91um 6.4MsZ X
 i 46 03.20
 LFF 85.62 44 eP 34 33.10 10.2X
 1.0s 18.00nm
 MBC 85.73 351 ePc 34 23.80 0.9
 0.9s 17.00nm 5.3mb
 TOA 85.75 334 eP 34 24.50 1.1
 LPO 85.87 44 eP 34 34.50 10.3X
 1.2s 23.80nm
 FBA 87.42 336 ePc 34 31.80 0.4
 1.5s 40.54nm 5.4mb
 AVF 87.79 43 eP 34 34.20 0.7
 1.0s 10.00nm 5.0mb
 LOR 88.22 42 eP 34 35.10 -0.5
 0.9s 7.35nm 5.0mb
 DAG 88.92 11 iPd 34 38.80 0.5
 1.0s 13.00nm 5.2mb
 SVW 89.78 332 eP 34 42.90 0.2
 LPL 89.88 44 eP 34 44.90 1.1
 1.2s 11.90nm 5.1mb
 IMA 90.11 337 ePc 34 44.70 0.4
 1.6s 18.90nm 5.1mb
 CDF 90.68 42 eP 34 47.50 0.3
 0.8s 5.35nm 5.0mb
 MBU 101.80 251 ePd 35 52.60 14.2X
 ASPA 137.79 224 ePKP 41 00.00 -10.1X
 0.5s 4.20nm
 i 41 09.20
 WMO 140.04 17 ePKP 41 14.40 0.8
 BJI 144.14 343 ePKP 41 18.00 -2.7X
 HMC 144.50 349 ePKP 41 19.70 -1.8
 BTO 145.02 351 PKP 41 21.80 -0.6
 MTN 146.34 236 ePKP 41 26.00 0.9
 KNA 146.54 229 ePKP 41 26.50 1.1
 GTA 146.65 4 ePKP 41 25.80 0.6
 pPKP 41 35.00
 NDI 146.80 44 ePKP 41 27.00 1.5
 TIA 147.30 339 ePKP 41 26.40 0.3
 TIY 147.32 346 PKPc 41 27.70 1.5
 MBL 148.32 211 iPKPc 41 31.00 2.8X
 e 44 37.00
 POO 148.99 64 ePKP 41 34.00 4.7X
 SSE 149.80 328 PKP 41 30.00 -0.1
 LZH 150.09 359 PKPc 41 37.00 6.3X
 2.0s 96.00nm
 pP 41 43.50
 i 43 35.00
 NJ2 150.18 332 PKPc 41 34.50 3.8X
 XAN 151.60 350 PKP 41 38.40 5.5X
 GKN 152.06 36 PKP 41 33.72 -0.2
 KKN 152.59 36 PKP 41 34.26 -0.5
 DMN 152.63 36 PKP 41 34.46 -0.4
 PKI 152.83 36 PKP 41 34.58 -0.6
 GUN 152.85 35 PKP 41 35.80 0.6
 HYB 153.57 63 ePKP 41 35.00 -1.1
 GBA 153.73 71 PKP 41 39.00 2.7X
 0.8s 2.90nm
 LSA 153.94 24 ePKP 41 37.00 0.1
 KOD 154.39 79 ePKP 41 48.00 10.4X
 S.D. = 1.0 on 82 of 99 obs.

APR 06, 1991 14h 34m 20.70±0.14s
 15.008 S ± 4.4km 175.521 W ± 3.4km
 DEPTH = 16.0km (17 depth phases)
 5.8mb (43 obs.) 6.7MsZ (29 obs.)
 TONGA ISLANDS (173)

Ms 6.4 (BRK), 6.1 (PAS).
 Mo=3.0*10**19 Nm (PPT).
 FAULT PLANE SOLUTION: P-Waves
 NP1: Strike=105 Dip=88 Slip= 0
 NP2: 195 90 182
 Principal Axes:
 T P1g= 1 Azm=330
 P 1 60
 Comment: The focal mechanism is

moderately well controlled and
 corresponds to strike-slip
 faulting. The preferred fault
 plane is not determined.

RADIATED ENERGY

No. of sta: 12 Focal mech. M
 Energy 4.2±1.0*10**15 Nm

MOMENT TENSOR SOLUTION

Dep 23 No. of sta: 12
 Moment Tensor: Scale 10**19 Nm
 Mrr=-0.01 Mtt= 0.81
 Mff=-0.79 Mrt= 0.00
 Mrf= 0.11 Mtf= 0.80

Principal axes:

T Val= 1.14 P1g= 2 Azm=337
 N 0.00 84 228
 P -1.14 5 68

Best Double Couple: Mo=1.1*10**19
 NP1: Strike=112 Dip=85 Slip= -2
 NP2: 203 88 -175

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 21S, 57C M.W.: 17S, 46C

Centroid Location:

Origin Time 14:34:28.2 0.2

Lat 14.86S 0.02 Lon 175.36W 0.02

Dep 15.0 FIX Half-duration 8.0

Moment Tensor: Scale 10**18 Nm

Mrr= 0.18 0.11 Mtt= 6.58 0.11

Mff=-6.76 0.13 Mrt= 0.57 0.43

Mrf=-4.04 0.49 Mtf= 7.97 0.09

Principal Axes:

T Val= 10.45 P1g= 7 Azm=154
 N 1.31 70 43
 P -11.76 18 246

Best Double Couple: Mo=1.1*10**19

NP1: Strike=289 Dip=72 Slip= -8

NP2: 21 82 -162

NDF 7.28 247 eP 36 15.20 6.2X
 PVC 15.75 258 iPc 38 09.00 5.5X
 RAR 16.19 115 P 38 08.00 -1.1
 S 41 28.00
 DZM 18.48 245 iPc 38 39.90 2.0
 PUZ 23.62 192 eP 39 32.00 0.1
 NOZ 24.20 192 eP 39 37.20 -0.1
 HNR 24.60 280 eP- 39 45.00 3.5X
 eS 44 08.00
 SVO 24.80 281 eP 39 46.00 2.6
 VSG 24.87 280 eP 39 49.00 4.9X
 PAE 25.03 100 eP 39 46.00 0.4
 1.4s 185.00nm 5.6mb
 PPT 25.03 99 eP 39 46.00 0.4
 1.4s 385.00nm 5.9mb
 PPN 25.16 99 eP 39 47.00 0.1
 1.4s 150.00nm 5.5mb
 TVO 25.34 100 eP 39 48.00 -0.7
 1.4s 220.00nm 5.6mb
 PMO 26.68 94 iP 40 00.10 -0.8
 1.4s 805.00nm 6.2mb
 VAH 26.92 94 iP 40 02.10 -1.1
 1.4s 405.00nm 5.9mb
 TPT 26.94 94 iP 40 02.40 -1.0
 1.4s 940.00nm 6.3mb
 RUV 27.16 94 iP 40 04.30 -1.1
 1.4s 540.00nm 6.0mb
 WEL 27.51 196 eP 40 04.00 -4.3X
 PP 41 00.00
 S 44 42.00
 RAB 33.57 285 eP 41 04.00 1.7
 iS 46 24.00
 COO 33.65 237 eP 41 02.60 -0.4
 i 41 04.00 5kmX
 RMO 35.19 245 eP 41 15.00 -1.2
 e 41 19.40 15km
 RIV 35.44 232 iP+ 41 16.00 -2.2
 Z 18s 9.90um 5.6MsZ X
 e 42 40.00 443kmX
 eS 47 00.00
 CTA 36.74 256 iPd- 41 29.20 -0.2
 1.1s 79.75nm 5.5mb
 iS 47 16.00
 CNB 37.39 231 iPd 41 35.00 0.3
 1.0s 138.00nm 5.7mb
 e 43 06.00 487kmX
 e 47 24.00
 e 51 44.00

CMS 38.88 238 eP 41 46.00 -1.2
 i 41 48.50 8km
 i 41 57.00
 RKT 39.06 108 iP 41 50.30 1.5
 1.2s 105.00nm 5.4mb
 OLP 39.19 246 e(P) 41 50.00 0.1
 e 43 34.00
 KIP 40.07 26 ePc 42 02.05 4.9X
 eS 48 13.19
 e 48 57.05
 TOO 41.15 229 eP 42 05.00 -0.9
 0.8s 156.00nm 5.8mb
 Z 18s 144.20um 6.9MsZ
 TAU 42.24 221 eP 42 14.00 -0.7
 e 43 54.00 557kmX
 e 45 46.00
 e 48 32.00
 QIS 42.98 256 eP 42 19.00 -2.1
 BFD 43.20 231 eP 42 22.00 -0.6
 ADE 45.54 236 iPd- 42 42.70 1.1
 1.3s 250.00nm 6.0mb
 ASPA 48.29 252 iPd 43 01.10 -2.3
 1.2s 79.70nm 5.6mb
 iPP 45 09.70
 e 47 36.70
 i 54 03.60
 eLR 58 57.30
 e 10 02.10
 e 13 50.50
 GUA 48.35 304 eP 43 03.00 -0.8
 FORR 53.74 243 eP 43 43.50 -1.0
 WARB 54.89 248 eP 43 50.50 -2.6
 0.7s 70.00nm 5.8mb
 DRV 59.29 199 eP 44 21.20 -2.4
 S 52 35.00
 COOL 59.72 243 eP 44 25.00 -2.2
 DAV 62.37 286 eP 44 46.00 0.7
 KLB 62.61 242 eP 44 44.00 -2.8
 NWA0 63.03 240 eP 44 52.00 2.5
 SBA 63.48 184 iP 44 52.10 0.3
 iS 53 32.80
 BAL 63.54 243 eP 44 50.00 -3.0X
 MUN 63.92 242 eP 44 57.50 2.1
 Z 20s 114.70um 7.1MsZ
 N 20s 47.10um
 E 20s 72.10um
 KAKJ 65.92 322 P 45 07.10 -1.0
 CHJJ 66.53 321 P 45 11.50 -0.5
 ADK 66.62 359 e(P) 45 10.90 -1.3
 Z 22s 59.10um 6.8MsZ
 e 45 16.00 16km
 IIDJ 66.83 320 P 45 13.60 -0.4
 OFUJ 67.03 325 eP 45 14.60 -0.6
 NIJJ 67.31 322 P 45 16.70 -0.3
 MAJO 67.33 321 ePc 45 16.25 -0.9
 ec 45 20.72 14km
 ed 45 27.18
 eS 54 19.86
 MAT 67.33 321 eP 45 15.00 -2.2
 0.9s 23.53nm 5.4mb
 eS 54 10.00
 YAMJ 67.33 323 eP 45 16.50 -0.6
 MTMJ 67.61 321 P 45 18.00 -1.0
 SMY 68.05 353 e(P) 45 21.70 0.4
 Z 22s 53.80um 6.7MsZ
 TSRJ 68.08 319 P 45 21.70 -0.1
 KUSJ 68.36 330 eP 45 21.90 -1.5
 MOOJ 68.53 328 eP 45 25.00 0.5
 KAGJ 68.96 312 eP 45 29.90 2.5
 OCP 69.26 292 eP 45 42.00 12.6X
 SHK 69.63 316 eP 45 31.00 -0.4
 KUMJ 69.75 314 eP 45 30.00 -2.2
 SAP 70.02 328 eP 45 33.00 -0.6
 ASAJ 70.12 329 eP 45 35.50 1.3
 BAG 70.38 294 eP 45 35.00 -1.5
 eS 54 52.00
 TRT 70.57 267 ePc 45 37.80 0.2
 SDN 71.22 9 P 45 38.00 -2.6
 Z 20s 25.00um 6.5MsZ
 PET 71.31 344 eP 45 40.00 -1.2
 SYP 72.17 46 eP 45 48.00 1.0
 YSS 72.21 331 ePc 45 46.00 -0.7
 GCC 72.22 43 eP 45 47.70 0.7
 PRS 72.23 43 ePd 45 47.80 0.7
 PCC 72.24 42 ePd 45 47.50 0.4
 SAO 72.43 43 eP 45 48.50 0.2
 BCH 72.46 45 P 45 49.00 0.4

06d 14h

BRK	72.54	42 eP	45 48.30	-0.6	SLKM	77.96	12 eP	46 18.30	-1.1	IMA	82.48	9 ePc	46 43.90	0.4
BKS	72.55	42 eP	45 50.80	1.8	GMW	78.05	33 P	46 20.80	0.7		1.3s	74.10nm		5.6mb
	0.8s	116.00nm		6.0mb	LON	78.09	35 ePc	46 18.63	-1.8	ILT	82.71	359 eP	46 46.00	1.6
Z	20s	14.00um		6.2MsZ	HKC	78.20	297 eP	46 22.40	1.0	PPM	82.89	68 (P)	46 48.50	1.4
N	20s	14.00um					eS	56 28.00		LRM	82.99	39 ePd	46 46.90	0.2
E	20s	11.00um			NJ2	78.30	308 Pc	46 23.00	1.2	BW06	83.36	43 iPc	46 48.20	-0.5
	eS		55 20.80			6.0s	1700.00nm		6.3mb X		1.3s	98.36nm		5.8mb
	iScS		55 54.80		Z	28s	28.70um		6.5MsZ X	BJI	83.72	314 ePc	46 50.85	0.6
	eSS		59 19.20		N	19s	18.60um				1.5s	78.00nm		5.7mb
	e		59 28.00		E	19s	13.60um			Z	24s	37.50um		6.7MsZ X
	eLQ		03 50.00				PP	46 28.00		E	18s	14.90um		
	eLR		06 50.00				SP	46 33.00				ed	47 02.60	38kmX
PRI	72.59	44 ePd	45 50.10	0.7			PP	49 23.00				eS	57 16.00	
MHC	72.63	42 eP	45 50.00	0.4			S	56 15.00		GOL	84.87	47 ePd	46 56.50	0.1
ARN	72.70	42 P	45 50.00	0.0			SKS	56 30.00			1.6s	124.50nm		5.9mb
ABL	72.87	46 P	45 51.00	-0.2	PGC	78.39	32 eP	46 26.00	4.1X	Z	20s	17.50um		6.4MsZ
PAS	73.23	47 eP	45 53.59	0.6	RMW	78.52	34 P	46 23.20	0.4	IPM	84.87	276 ePd	46 56.00	-0.6
	ec		46 00.21	21km	PMR	79.17	12 ePc	46 25.00	-0.9	GLD	84.99	47 eP	46 57.50	0.6
	ePP		48 38.00			1.1s	97.60nm		5.7mb	Z	20s	17.50um		6.4MsZ
	eS		55 33.84		Z	21s	15.60um		6.3MsZ	TIY	85.44	311 eP	47 00.50	1.5
	e		55 47.58				i	46 29.50	14km	Z	26s	41.30um		6.7MsZ X
	ePS		56 00.00		TTA	79.17	9 ePc	46 26.80	0.8	E	19s	39.00um		
	eSS		59 16.00			1.2s	220.80nm		6.1mb			PP	47 09.50	
	eSSS		03 28.00		SIT	79.18	21 e(P)	46 30.30	4.3X			SKS	57 26.00	
	eLg		04 53.00		Z	21s	26.00um		6.5MsZ	HIA	85.66	324 ePc	47 00.23	0.4
MWC	73.35	47 eP	45 53.00	-1.0	GZH	79.20	297 P	46 27.50	0.6			ec	47 09.83	30kmX
BAR	73.54	49 eP	45 55.00	0.1	Z	33s	29.20um		6.4MsZ X	SNG	85.95	278 eP	47 06.90	5.0X
FRI	73.71	44 iPd	45 55.70	0.0	N	14s	3.40um					e	57 42.00	
RVR	73.71	47 eP	45 56.00	0.2	E	19s	14.50um			GYA	86.06	299 P	47 03.20	0.8
PLM	73.75	48 iPd	45 56.20	-0.1			S	56 30.00			6.0s	2200.00nm		6.5mb X
	i		46 01.00	15km			SS	01 28.00		Z	40s	21.20um		6.2MsZ X
SBB	73.75	47 eP	45 56.00	-0.2	DL2	79.45	315 Pc	46 29.00	1.1	N	21s	14.40um		
PEC	73.81	48 ePd	45 55.70	-0.8		Z	24s	20.90um		E	21s	10.50um		
ISA	73.82	45 eP	45 57.00	0.5		N	16s	18.60um				SKS	57 30.00	
CMB	73.84	42 ePd	45 56.22	-0.4		E	14s	4.00um		SES	86.06	35 eP	47 02.00	0.2
	eS		55 36.25		CN2	79.48	321 Pc	46 28.00	0.0		1.7s	361.00nm		6.3mb
	e		56 26.74			1.8s	200.00nm		5.8mb	EDM	86.24	32 eP	47 03.20	0.6
WDC	73.95	39 iPd	45 57.30	0.2		Z	25s	96.00um		XAN	86.75	306 P	47 06.00	0.5
ORV	74.00	41 ePc	45 57.20	-0.2		N	18s	18.00um		E	16s	8.00um		
	e		46 00.70	11km		E	18s	12.00um				SP	47 16.40	
CLC	74.50	46 eP	46 00.00	-0.5			PP	46 36.00				SKS	57 33.00	
TPC	74.71	48 eP	46 02.00	0.3	MSU	79.60	45 P	46 38.00	0.9	BRW	87.05	6 eP	47 06.20	0.1
GSC	74.79	46 ePd	46 02.11	-0.1	SNY	79.62	318 Pc	46 28.80	0.0	HHC	87.27	313 P	47 08.80	0.8
	ec		46 21.98	74kmX		2.0s	300.00nm		6.0mb		1.4s	200.00nm		6.2mb
	eS		55 46.89			Z	22s	26.50um		Z	25s	40.30um		6.7MsZ X
	eSS		00 33.08			N	16s	5.70um		N	15s	3.20um		
LBFM	74.81	39 P	46 01.80	-0.5		E	16s	9.80um		E	17s	13.20um		
GLA	75.08	49 eP	46 04.00	0.2			PP	46 35.00		MAW	87.50	199 eP	47 09.00	0.5
SPA	75.09	180 iPc	46 05.90	2.4			PcP	46 37.50			1.6s	154.00nm		6.0mb
BONR	75.17	43 P	46 04.80	0.2			SKS	56 35.00		Z	18s	32.00um		6.8MsZ
OZH	75.50	301 eP	46 06.00	-0.3	ANM	79.71	4 eP	46 28.80	0.0	RSSD	87.56	43 eP	47 08.80	-0.7
	5.0s	2210.00nm		6.5mb X	KLU	79.79	14 P	46 28.00	-1.4		1.2s	80.17nm		5.9mb
Z	32s	60.00um		6.7MsZ X	TOA	80.27	14 eP	46 32.20	0.2	LOE	87.71	289 eP	47 16.00	5.6X
N	18s	8.70um			BALM	80.28	16 eP	46 31.40	-0.7	YAK	87.93	337 iP	47 08.80	-1.7
E	18s	6.20um			QIZ	80.86	292 P	46 40.00	4.1X			iPP	50 52.00	
KVN	75.89	43 P	46 08.00	-0.6		N	26s	35.30um				eS	57 46.00	
COR	75.93	36 ePc	46 01.13	-7.3X		E	21s	9.30um				iPS	58 48.00	
	ed		46 09.07	25km	WHN	81.18	305 Pc	46 38.50	1.2			iPPS	59 12.00	
	eS		55 57.21			6.0s	1500.00nm		6.2mb X			iSS	03 38.00	
	eSS		00 47.53		Z	40s	26.60um		6.3MsZ X			eSSS	06 42.00	
TNP	75.96	44 iP	46 08.80	-0.2		N	18s	11.30um		BTO	88.26	313 P	47 14.00	1.2
	1.4s	171.88nm		5.9mb		E	20s	17.00um		N	22s	6.10um		
	i		46 13.50	15km	TIA	81.40	311 eP	46 38.80	0.4	E	22s	4.30um		
SSE	76.10	308 Pc	46 09.00	-0.6			PP	46 48.00				SP	47 25.00	
	1.6s	75.00nm		5.5mb		Z	26s	31.10um		INK	88.39	14 eP	47 12.00	-0.6
Z	24s	38.50um		6.6MsZ X		N	18s	9.40um			1.2s	59.00nm		5.8mb
N	24s	19.70um			NEW	81.55	35 ePc	46 37.50	-1.5			pP	47 40.00	106kmX
E	21s	26.10um				1.5s	145.77nm		5.8mb	KMI	89.01	296 ePc	47 18.48	1.6
	PcP		46 20.00				i	46 43.60	19km		2.0s	130.00nm		5.9mb
	PP		49 06.00		III	81.92	69 (P)	46 43.00	1.4	Z	34s	41.40um		6.6MsZ X
	S		55 56.00		ALO	82.13	51 iPd	46 42.20	-0.3			ec	47 27.91	29kmX
PDB	76.51	11 P	46 08.00	-3.3X		1.3s	180.29nm		6.0mb	CD2	89.86	302 eP	47 20.00	-0.5
BMW	77.15	34 P	46 15.50	0.3		Z	22s	29.63um		Z	20s	28.30um		6.7MsZ
RSO	77.41	11 eP	46 14.50	-2.1			e	46 49.80	24km	E	18s	25.70um		
	e		46 19.20	15km			e	46 43.00	0.6			PP	47 30.50	
MDJ	77.48	323 Pc	46 17.00	0.0	ANMO	82.13	51 iPc	46 43.00	0.6			SKS	57 52.00	
Z	24s	86.70um		7.0MsZ X		1.5s	312.50nm		6.2mb	YKA	90.56	24 eP	47 21.20	-1.7
N	22s	46.60um				Z	20s	26.60um			1.1s	11.40nm		5.1mb
E	22s	75.50um			COL	82.41	12 ePc	46 42.11	-0.9	BIX	90.57	53 e(P)	47 21.00	-2.6
	PP		46 25.00				ed	46 54.03	39kmX	TUL	90.59	53 ePd	47 23.10	-0.6
	SP		46 30.00				iS	56 59.02			1.2s	45.90nm		5.6mb
	PP		49 14.00				e	57 03.30		Z	20s	28.42um		6.7MsZ
	S		56 10.00		FBA	82.41	12 iPc	46 42.60	-0.4			LR	15 58.60	
SVW	77.51	10 eP	46 14.80	-2.1			i	46 46.40	12km	LZH	91.35	307 ePc	47 28.39	1.0
	e		46 20.70	19km							2.0s	96.00nm		5.8mb
SHW	77.51	35 P	46 18.40	1.0						Z	42s	75.40um		6.8MsZ X
VGB	77.92	36 P	46 20.00	0.5						E	18s	13.40um		

			ec	47	37.82	29kmX			2.0s	*****nm		ZST	145.30	345	ePKP	53	58.80	-0.5		
			eSKS	58	00.00		OBN	132.92	335	ePKP	53	56.00	19.4X			i	54	06.60		
FFC	92.91	34	ePd	47	33.40	-0.5		1.5s	*****nm							i	54	18.50		
	1.4s	35.00nm			5.6mb		Z	20s	20.00um		6.8Msz				e	58	39.00			
OLY	93.84	54	P	47	39.20	0.5	N	18s	12.00um				SHBJ	145.33	306	PKP	53	59.64	-0.4	
TIK	94.07	345	eP	47	39.00	0.1	E	20s	7.00um				SRO	145.34	344	ePKP	53	58.70	-0.7	
NVL	94.29	182	eP	47	39.00	-1.1			ePP	56	07.00				i	54	03.60			
Z	18s	32.80um			6.8Msz				eSKP	57	08.00		WLF	145.41	358	PKPc	53	59.60	0.2	
			i	47	42.00				iPKS	57	16.00		VKA	145.43	346	iPKPc	53	59.30	-0.3	
			i	47	49.00				ePPP	58	58.00			6.3s	5407.00nm					
			i	47	59.00				ePS	06	12.00		Z	21s	11.00um		6.6Msz			
			e	48	29.00				ePPS	08	00.00				i	54	04.20			
			ePP	51	32.00				iSS	13	48.00				i	54	10.00			
			ePPP	53	50.00				e	14	56.00				i	54	28.40			
			eSKS	58	12.00				eSSS	18	20.00				i	54	37.80			
			eSKKS	58	33.00				LO	29	00.00		BUD	145.44	343	ePKP	53	58.60	-1.0	
			eS	58	58.00		SLR	133.34	210	iPKPd	53	40.00	1.4	DEV	145.54	337	iPKPc	54	05.50	5.7X
			ePS	00	28.00		Z	20s	19.15um		6.8Msz		DRA	146.00	334	ePKPd	54	07.00	6.4X	
			ePP	01	28.00		NB2	133.78	355	PKP	53	42.00	3.8X	GWf	146.03	356	PKP	54	00.97	0.4
			eSS	05	27.00			1.7s	43.70nm				KMR	146.09	348	iPKP+	54	01.70	1.0	
			eSSS	08	49.00		HFS	134.44	354	ePKP	53	32.20	-7.2X	FLN	146.09	6	ePKP	53	59.10	-1.5
NNA	95.14	104	eP	47	52.00	6.9X		1.0s	5.50nm					1.3s	225.65nm					
FVM	95.30	52	P	47	45.70	0.4	BKR	137.09	316	ePKP	53	54.00	8.8X	Z	22s	1.50um		5.7Msz		
GTA	95.34	309	eP	47	45.60	-0.1	PTZ	140.62	224	ePKP	53	53.00	0.7	BHL	146.15	309	PKP	54	07.00	5.6X
	1.8s	50.00nm			5.7mb				i	56	39.00				PP	58	01.00			
	Z	15s	58.50um		7.2MszX		SIM	141.04	326	ePKP	54	00.00	7.9X			SKS	04	43.00		
	E	24s	69.50um				LSZ	141.86	219	ePKP	53	52.00	-2.6X	BZS	146.24	338	ePKP	54	00.50	-0.5
IRK	95.83	323	eP	47	47.00	-0.4			e	56	56.00		LDF	146.30	6	ePKP	54	00.10	-0.9	
	Z	22s	43.52um		6.9Msz		KRA	142.85	343	ePKP	53	57.40	2.3X	HRI	146.36	308	ePKP	54	03.00	1.3
	N	22s	16.70um				KSP	143.00	348	ePKP	53	52.50	-2.8X	UZD	146.37	342	e(PKP)	54	02.00	0.8
	E	22s	23.01um				CLL	143.15	351	ePKP	53	56.00	0.5	ITU	146.39	325	ePKP	54	04.00	2.6X
			e	48	11.00	88kmX		1.1s	22.00nm				GRR	146.42	6	ePKP	54	00.80	-0.4	
			e	50	36.00		Z	22s	14.00um		6.7Msz			1.5s	282.05nm					
			ePP	51	26.00				e	57	51.00		FUR	146.46	352	iPKPc	54	03.90	2.6X	
			e	53	16.00		UZH	143.40	340	iPKP	53	54.00	-2.1X	Z	20s	17.00um		6.8Msz		
			ePPP	54	00.00		BRG	143.42	350	iPKP	53	58.00	2.0X	WLS	146.61	357	PKP	54	02.23	0.7
			e	56	56.00			2.0s	75.00nm				COF	146.61	357	ePKP	54	01.60	0.0	
			e	58	39.00		Z	22s	15.00um		6.7Msz			1.2s	184.45nm					
			eSKS	58	57.00		N	22s	17.00um				MDSJ	146.62	305	PKP	54	03.17	1.0	
			eS	59	12.00		E	22s	4.50um				JARJ	146.63	306	PKP	54	03.14	1.0	
			ePS	00	19.00				i	54	01.80		BHG	146.65	350	iPKPc	54	03.90	2.3X	
			eSS	05	08.00				i	54	15.00		JMB	146.67	330	ePKP	54	03.00	1.2	
			e	06	47.00				i	56	00.00		PVL	146.69	332	ePKP	54	04.00	2.2X	
			eSSS	09	24.00				i	56	32.00		LPF	146.76	7	ePKP	54	01.80	0.1	
MBC	96.95	12	eP	47	51.50	-0.5			e	01	08.00		ECH	146.81	357	PKP	54	01.77	-0.1	
	1.4s	55.00nm			5.9mb				i	11	12.00		VITF	146.86	358	PKP	54	03.17	1.3	
RSCP	98.54	55	eP	48	01.00	1.0			e	13	44.00		SALJ	146.92	306	PKP	54	03.90	1.3	
			e	48	06.50	17km			e	16	28.00		GHZJ	146.95	303	PKP	54	02.47	-0.3	
LSA	100.12	298	ePd	48	11.00	3.0X			i	21	16.00		MASJ	147.00	306	PKP	54	04.16	1.4	
Z	40s	45.50um			6.7MszX		SPC	143.55	343	ePKP	53	57.00	0.4	HAU	147.06	358	ePKP	54	02.60	0.3
		S	59	44.00			MOX	143.99	352	ePKP	53	59.00	2.0X		1.2s	178.50nm				
WMO	105.08	312	ePd	48	31.00	1.7		2.7s	226.00nm				Z	22s	35.00um		7.1Msz			
	Z	24s	17.20um		6.5MszX			Z	30s	22.90um		6.8MszX	FEL	147.10	356	PKP	54	03.90	1.4	
	N	18s	14.30um					N	35s	15.90um			KBA	147.18	349	iPKPc	54	04.90	2.2X	
	E	20s	12.20um				E	34s	11.70um				1.4s	30.10nm						
SDV	106.55	85	ePKP	52	34.80	-13.0X	VRJ	144.00	333	ePKP	53	57.50	0.3			i	54	08.70		
TOV	107.56	84	ePKP	52	45.00	-4.5X	BNS	144.07	357	iPKPd	53	55.20	-1.9			i	54	12.20		
SIV	108.31	113	PKP	52	56.60	5.8X		1.7s	305.00nm						i	54	27.20			
PRZ	111.79	310	ePKP	53	00.00	3.2X	Z	23s	6.00um		6.3MszX		JVI	147.21	306	ePKP	54	05.00	1.9X	
KSH	113.59	307	PKP	53	00.00	-0.4	NAI	144.16	246	PKP	53	58.20	-0.5	BSF	147.22	357	ePKP	54	02.90	0.3
	E	22s	32.60um						PKS	00	12.00			1.4s	108.90nm					
POO	113.85	284	ePKP	53	02.00	0.7			SS	17	28.00		WTTA	147.29	351	iPKPc	54	04.70	1.8	
GAR	118.00	306	ePKP	53	08.30	-0.5	UCC	144.30	0	PKP	53	56.80	-0.7		1.6s	293.00nm				
		eS	04	49.00					e	54	02.00				i	54	10.60			
QUE	121.03	296	ePKP	53	15.40	0.5	ENN	144.31	358	ePKP	53	55.00	-2.5X	BEO	147.34	339	ePKP	54	04.50	1.8
KEV	123.50	351	ePKP	53	19.00	0.8		2.0s	584.00nm				CSS	147.35	313	ePKP	54	05.00	1.9X	
Z	24s	30.60um			6.9MszX		MEM	144.47	358	PKPc	53	54.70	-3.1X	PTJ	147.73	345	ePKP	54	05.40	1.9X
			e	55	00.00				ed	54	01.60		PGB	147.75	332	ePKP	54	06.00	2.4X	
			e	57	38.00				e	54	12.00		FVI	147.75	349	PKP	54	06.10	2.8X	
			e	05	12.00		SNF	144.59	0	PKP	53	56.70	-1.3	OGA	147.77	352	ePKP	54	06.20	2.5X
			e	06	12.00				ed	54	02.10		ZAG	147.80	345	ePKP	54	10.00	6.6X	
			e	12	06.00		MLR	144.64	334	ePKP	53	58.50	0.0	LOR	147.83	1	ePKP	54	04.90	1.4
			e	14	08.00		KMZ	144.70	218	ePKP	54	00.00	0.6		1.4s	137.25nm				
			LR	48	00.00		PSZ	144.79	342	iPKP	53	56.70	-1.9	Z	22s	42.50um		7.2Msz		
MAIO	126.82	304	ePKP	53	27.00	1.2	GRF	144.97	352	ePKPc	53	57.90	-0.9	PLD	147.85	331	ePKP	54	06.00	2.3X
			e	55	34.00		Z	23s	13.00um		6.6MszX		KDZ	147.86	330	ePKP	54	03.00	-0.7	
			e	05	40.00				e	54	03.80		LJU	147.93	347	ePKP	54	07.00	3.3X	
KAF	130.46	347	ePKP	53	31.00	-0.7			e	54	36.90		SSF	148.03	1	ePKP	54	05.40	1.6	
PUL	131.46	343	ePKP	53	52.00	18.3X	DOU	145.01	360	PKP	53	58.00	-0.7	VOY	148.08	348	e(PKP)	54	05.80	1.8
NUR	132.26	347	ePKP	53	43.00	7.8X	Z	20s	13.50um		6.7Msz				i	54	11.40			
	Z	22s	33.60um		7.0Msz				e	54	07.00		LBF	148.12	1	ePKP	54	05.50	1.5	
			e	55	50.00		BBTK	145.03	320	ePKP	54	02.00	2.7X	RZN	148.17	331	iPKPd	54	05.00	0.5
			e	57	16.00				i	54	11.00		RDO	148.18	329	ePKP	54	11.00	6.8X	
			e	06	16.00				e	54	12.00		CEY	148.24	347	e(PKP)	54	09.80	5.6X	
			e	09	06.00		ABH	145.13	357	ePKP	53	58.00	-1.0	MFF	148.27	6	ePKP	54	06.30	2.1X
			e	13	44.00		CMP	145.20	334	ePKPc	54	01.00	1.7		1.					

06d 14h

										ISS 18 45.00										MD 2.8 (FIR).									
AVF	148.30	1	ePKP	54	06.00	1.8				ESEL	155.29	3	ePKP	54 10.50	-4.1X		FIR	0.21	45	iPg	42 44.00	0.0							
MBH	148.41	303	ePKP	54	09.00	3.9X				EHOR	155.70	19	ePKP	54 20.20	5.0X				iSg	42 47.50									
TRI	148.41	348	i(PKP)	54	12.00	7.6X				ECOG	156.70	16	ePKP	54 33.40	16.7X		BDI	0.54	323	P	42 50.00	-0.4							
			i(PKPP)	54	30.90					MBO	159.26	89	ePKP	54 30.90	10.8X				eSg	42 59.00									
			i(PP)	58	16.00					IFR	159.62	24	iPKP	54 24.00	3.7X		MME	0.62	336	P	42 52.50	0.5							
			i(SPP)	10	44.00					TIO	160.84	32	iPKP	54 28.40	6.8X				eSg	43 01.00									
			i(SS)	17	36.00								i	54 43.00			SFI	0.65	63	Pd	42 52.10	-0.3							
			iLR	44	32.00					LIC	167.22	132	PKP	54 27.96	0.3				eSg	43 01.20									
SMF	148.45	1	ePKP	54	06.30	1.8				Z	20s	13.40um			6.6msz		CRE	0.66	90	P	42 52.90	0.4							
CTI	148.48	350	PKP	54	11.60	6.9X				TIC	167.51	131	PKP	54 28.12	0.2				eSg	43 01.50									
BGF	148.52	2	ePKP	54	06.50	1.9				KIC	167.52	133	PKP	54 28.10	0.2		ARV	1.38	95	P	43 04.50	-0.2							
RIY	148.62	347	ePKP	54	11.20	6.4X				LKO	168.76	118	PKP	54 27.82	-0.9		S.D. = 0.5 on 6 of 6 obs.												
MMB	148.71	332	ePKPd	54	09.00	3.9X			S.D. = 1.1 on 233 of 360 obs.																				
LSF	148.76	4	ePKP	54	07.10	2.1X			? APR 06, 1991 14h 48m 29.60±0.66s										* APR 06, 1991 16h 30m 31.84±0.72s										
TCF	148.76	3	ePKP	54	07.30	2.2X			5.961 S ±11.7km 77.561 W ±22.0km										5.949 S ± 9.7km 77.519 W ±24.5km										
MAF	148.84	3	ePKP	54	07.50	2.3X			DEPTH = 10.0km (geophysicist)										DEPTH = 33.0km (normal)										
PLE	149.02	339	iPKPc	54	14.40	8.7X			5.0mb (5 obs.)										4.8mb (3 obs.)										
VAI	149.03	354	PKPc	54	09.90	4.5X			NORTHERN PERU (111)										NORTHERN PERU (111)										
PRK	149.19	326	ePKP	54	14.80	8.9X			NNA	6.03	173	iP	50 01.00	-0.1		Felt at Riojo.													
IVA	149.24	338	iPKPd	54	15.63	9.7X				0.7s	33.56nm			5.2mb		GGP	5.84	349	eP	32 01.00	2.0								
RSL	149.36	357	PKP	54	09.58	3.4X			HUA	6.43	160	iPd	50 15.50	8.4X		YANA	5.89	350	eP	32 00.50	0.9								
SKO	149.40	335	ePKP	54	12.50	6.4X					iS	50 32.50			NNA	6.04	174	iP	32 02.50	1.2									
	1.2s	99.00nm							LPB	14.01	139	P	52 05.00	14.1X			0.7s	8.22nm		4.5mb									
	Z 25s	28.65um				7.0mszX					LR	17 27.00			PT10	6.11	175	eP	32 02.50	0.2									
	N 25s	28.76um							CNCB	14.29	140	eP	52 02.00	7.3X			eS	33 06.00											
	E 25s	32.92um									i	52 08.10			CCH	15.90	137	eP	34 15.00	-0.2									
									CCH	15.92	136	P	52 24.00	8.3X		SDV	16.26	25	eP	34 21.50	1.8X								
VAY	149.44	333	iPKP	54	12.70	6.5X			ALO	48.96	328	eP	57 18.90	0.5		SIV	18.96	123	P	34 47.20	-6.0X								
PVY	149.45	337	iPKPd	54	18.23	11.9X				1.0s	9.50nm			4.8mb		ALO	48.97	328	eP	39 16.50	-1.0								
LPL	149.53	357	ePKP	54	10.00	3.5X			FFC	63.81	344	ePd	59 03.70	-0.4			0.9s	10.50nm		4.9mb									
LPG	149.55	357	ePKP	54	10.40	3.8X				1.0s	12.00nm			5.0mb		SES	63.15	337	eP	40 57.00	-1.8								
	1.2s	139.45nm							TIC	73.47	81 P	00 04.80	0.0		KIC	73.66	82 P	42 04.30	-0.4										
LSD	149.56	356	PKP	54	11.41	4.8X			KIC	73.70	82 P	00 06.20	0.1		MBC	85.56	351	ePc	43 06.50	-1.0									
NKY	149.61	339	iPKPc	54	16.40	9.8X			YKA	73.90	343	eP	00 04.80	-1.6			1.0s	7.00nm		4.8mb									
BRY	149.69	339	iPKPd	54	16.08	9.4X				0.7s	2.10nm			4.3mb		GKN	152.29	36	PKP	50 25.00	5.3X								
RJF	149.70	4	ePKP	54	11.10	4.6X			INK	83.61	342	eP	01 00.00	0.9		KKN	152.82	35	PKP	50 26.20	5.7X								
SSB	149.83	360	PKP	54	10.88	4.2X			MBC	85.57	351	ePc	01 09.50	0.7		DMN	152.86	36	PKP	50 26.80	6.1X								
RSP	149.86	356	PKP	54	10.59	3.7X				1.0s	14.00nm			5.1mb		PKI	153.06	35	PKP	50 26.40	5.4X								
EMON	149.92	17	ePKP	54	17.10	10.2X			GKN	152.32	36	PKP	08 29.98	8.8X		GUN	153.07	34	PKP	50 27.00	5.9X								
BNI	149.99	357	PKP	54	13.70	6.6X			KKN	152.85	35	PKP	08 29.88	7.9X			S.D. = 1.4 on 9 of 16 obs.												
LF	150.00	5	ePKP	54	12.10	5.2X				0.7s	11.00nm					* APR 06, 1991 17h 46m 21.95±0.65s													
	1.6s	310.95nm							DMN	152.89	35	PKP	08 30.10	8.0X		37.602 N ± 9.0km 68.779 E ±10.1km													
BOB	150.04	353	PKP	54	12.00	4.9X			PKI	153.09	35	PKP	08 30.36	7.9X		DEPTH = 33.0km (normal)													
STS	150.05	19	ePKP	54	12.60	5.5X			GUN	153.10	34	PKP	08 30.88	8.4X		4.2mb (2 obs.)													
HCY	150.11	339	iPKPd	54	19.15	12.0X			S.D. = 0.9 on 8 of 17 obs.										AFGHANISTAN-USSR BORDER REGION (717)										
CAF	150.11	3	ePKP	54	12.50	5.4X			? APR 06, 1991 14h 58m 16.53±3.66s										QUE 7.55 192 eP 48 12.50 -0.2										
RRL	150.12	357	PKP	54	12.74	5.3X			31.280 S ±17.2km 65.777 W ±46.3km										NDI 11.36 139 iPd 49 04.00 -0.9										
BDV	150.14	338	iPKPd	54	19.75	12.5X			CORDOBA PROVINCE, ARGENTINA (141)										0.8s 26.12nm 5.5mb X										
BHB	150.17	356	PKP	54	10.48	3.3X			CFA	2.13	261	iPd	58 55.90	0.1			eS	51 05.50											
ULC	150.26	337	iPKPd	54	21.70	14.3X			RTLL	2.31	268	iPd	58 57.40	-0.3		GKN	16.39	121	P	50 10.76	-0.5								
LPO	150.29	5	ePKP	54	12.70	5.3X			ZON	2.49	263	iPc	58 59.00	-0.9		DMN	16.96	121	P	50 19.10	0.5								
	1.2s	92.25nm									eS	59 32.00			KKN	16.97	120	P	50 18.68	0.1									
PCP	150.36	354	PKP	54	12.02	4.5X			RTCB	2.59	265	ePc	59 01.50	0.4		PKI	17.19	121	P	50 21.22	-0.3								
QHR	150.38	335	ePKP	54	05.50	-2.2X			RTBS	3.16	262	iPc	59 08.70	0.9		GUN	17.31	119	P	50 22.64	-0.3								
	1.4s	393.00nm							RTRS	3.36	288	iPd	59 10.00	-0.3		HYB	21.87	154	eP	51 15.00	1.2								
											S	59 50.00			KOD	28.35	162	eP	52 15.60	0.2									
SFI	150.50	349	PKP	54	13.20	5.5X			JACH	4.32	250	iPd	59 23.50	0.9		HFS	41.10	321	eP	54 02.70	-1.2								
PZZ	150.52	356	PKP	54	12.74	4.8X			PEL	4.56	245	iPc	59 26.00	0.4			1.3s	13.80nm		4.5mb									
KZN	150.62	332	ePKP	54	17.00	8.9X					i	00 14.00			MBC	66.31	2	eP	57 08.50	-0.2									
ROB	150.67	355	PKP	54	11.51	3.5X			PCH	4.63	239	iPc	59 27.20	0.6		YKA	80.21	2	eP	58 31.50	1.4								
ARV	150.70	347	PKP	54	19.60	11.5X					iS	00 26.50				1.2s	1.80nm		3.9mb										
FIN	150.72	355	PKP	54	12.12	4.0X			SAN	4.67	241	eP	59 21.00	-6.0X		S.D. = 0.9 on 12 of 12 obs.													
FIR	150.75	350	ePKP	54	14.00	6.0X			ROCH	4.75	248	iPd	59 28.20	-0.1		APR 06, 1991 18h 12m 24.82s													
STV	150.76	356	PKP	54	13.76	5.6X			TACH	4.96	240	iPd	59 31.00	0.2		59.966 N 152.929 W													
CRE	150.77	349	PKP	54	21.10	12.8X					iS	00 31.50			DEPTH = 108.7km														
ENR	150.77	356	PKP	54	13.25	5.0X			LCCH	5.37	244	iP	59 35.00	-1.0		3.1mb (1 obs.)													
ERUA	150.93	18	ePKP	54	19.90	11.5X					i	00 37.50			SOUTHERN ALASKA (2)														
IMI	151.05	355	PKP	54	13.76	5.1X			LNV	5.45	239	iP	59 36.20	-0.9		<AEIC>													
HLW	151.20	305	ePKP	54	18.00	8.8X			CNCB	14.54	352	P	01 30.80	-4.7X		RED	0.46	10	iPc	12 40.89	-0.7								
CDR	151.41	358	ePKPc	54	18.90	9.8X			LPB	14.83	351	P	01 39.00	0.1															

DFR	0.64	11	iPc	12 42.13	-0.8	SES	63.17	336	eP	23 50.00	-0.1	TWC	2.96	35	eP	10 12.60	0.2	
			eS	12 55.63		FRB	69.63	4	eP	24 31.00	0.2		S.D. = 0.2	on	6 of	6 obs.		
			eS	12 55.61		YKA	73.87	343	eP	24 55.10	-1.1							
AUE	0.65	200	eP	12 42.06	-0.8		0.7s		2.40nm		4.3mb		%	APR 06, 1991	22h 20m	56.39±1.52s		
AUH	0.66	204	eP	12 42.48	-0.6	INK	83.58	342	eP	25 49.50	0.5		18.744 N ±11.8km	100.998 W ±15.3km				
PDB	0.66	255	iPd	12 42.30	-0.7	MBG	85.46	351	eP	26 00.50	2.2		DEPTH = 33.0km (normal)					
			eS	12 55.61		ZST	97.06	42	eP	27 03.60	10.6X		GUERRERO, MEXICO			(59)		
RDT	0.66	23	iPc	12 42.22	-0.9	GKN	151.89	36	PKP	33 18.20	7.8X		MRX	0.97	349	iPc	21 13.60 -0.1	
			eS	12 55.99		KKN	152.43	35	PKP	33 19.40	8.1X				iS	21 24.00		
AUI	0.68	202	ePd	12 42.38	-0.8	DMN	152.46	36	PKP	33 19.80	8.4X		III	1.50	104	iP	21 20.50 -0.9	
			eS	12 55.74		PKI	152.67	36	PKP	33 19.40	7.6X				iS	21 35.80		
HOM	0.72	115	ePc	12 42.99	-0.5	GUN	152.68	34	PKP	33 21.80	10.0X		ACX	2.16	150	iP	21 31.00 0.3	
			eS	12 57.41			S.D. = 1.4	on	13 of	19 obs.		PPM	2.27	81	iP	21 33.00 0.2		
XLV	0.80	129	ePc	12 43.22	-1.0		? APR 06, 1991	19h 52m	04.50±0.78s					(S)		22 15.20		
			eS	12 58.61			27.535 N ±14.7km	52.282 E ±15.1km				IISM	3.44	85	iP	21 49.50 0.5		
NNL	0.82	84	iPc	12 44.58	0.2		DEPTH = 33.0km (normal)					OXX	4.39	111	(P)	22 06.00 3.3X		
CNPM	0.96	117	iPc	12 45.00	-0.9		4.2mb (3 obs.)						S.D. = 0.8	on	5 of	6 obs.		
			iS	13 00.85			SOUTHERN IRAN		(353)									
BRLL	1.05	100	ePc	12 45.94	-0.8								? APR 06, 1991	22h 57m	54.66±1.16s			
			eS	13 01.89		BBU	2.09	232	iPn	52 38.90	1.0		39.880 N ±14.2km	23.066 E ±13.1km				
MCNL	1.06	223	iPd	12 45.94	-0.9				iSn	53 22.40			DEPTH = 10.0km (geophysicist)			(365)		
			eS	13 01.96		SHI	2.11	6	iPc	52 39.00	0.6		AEGEAN SEA					
CDD	1.10	200	ePd	12 46.17	-1.2	8EE	2.18	227	iPn	52 40.90	1.7							
NKA	1.15	46	iPc	12 48.69	0.9				iSn	53 22.40			PAIG	0.47	84	ePc	58 04.36 0.1	
CKL	1.27	13	iPc	12 48.61	-0.7				ePc	52 47.40	6.9X				eS	58 12.68		
			eS	13 07.11		DHR	2.27	238	ePc	52 47.40	6.9X		OUR	0.84	57	ePd	58 10.64 -0.1	
SPU	1.29	19	ePc	12 48.66	-0.9				eS	53 44.00					eS	58 23.12		
			eS	13 07.32		RYD	5.82	242	ePc	53 29.10	-1.7		AGG	1.03	214	ePc	58 14.12 0.0	
BGL	1.33	11	iPc	12 49.51	-0.5				eS	55 11.50					eS	58 29.52		
CRP	1.36	16	eP	12 49.78	-0.6	KER	8.12	328	eP	54 36.00	32.9X		MMB	1.78	16	eP	58 33.00 7.3X	
			eS	13 09.43		SRAT	12.64	224	ePc	55 04.07	-1.0		RZN	2.20	34	eP	58 32.00 0.1	
SYI	1.39	168	ePd	12 49.56	-1.0	DHJN	12.74	221	ePc	55 04.33	-2.1X		KDZ	2.51	45	eP	59 09.00 32.8X	
			eS	13 08.04		PRNI	15.39	285	eP	55 54.00	13.1X			S.D. = 0.2	on	4 of	6 obs.	
SLKM	1.46	67	ePd	12 50.18	-1.3	GAR	18.89	48	eP	56 24.40	-0.4			? APR 06, 1991	23h 05m	38.21±4.27s		
			eS	13 09.43		GKN	28.59	81	P	58 00.00	0.0			47.169 N ±29.3km	6.766 E ±28.1km			
NCG	1.49	14	eP	12 51.71	-0.2	HFS	41.80	332	eP	59 49.20	-3.1X			DEPTH = 10.0km (geophysicist)		(538)		
SEW	1.75	84	ePc	12 53.67	-1.3		0.3s		7.80nm		4.9mb		FRANCE					
SUA	1.85	35	ePd	12 55.76	-0.6	SOD	42.80	346	eP	00 50.00	49.6X		ML 1.9 (LDG).					
			eS	13 19.03		N82	43.32	332	P	00 01.40	-3.4X							
PMS	2.10	51	iPd	12 58.43	-1.1		0.5s		1.80nm		4.1mb		BSF	0.66	2	Pg	05 51.50 0.0	
SKT	2.13	18	iPd	12 58.89	-1.1	KEV	44.72	348	eP	01 17.00	61.1X				Sg	06 04.00		
			eS	13 25.96		YKA	89.67	354	eP	04 59.90	-0.3		HAU	0.88	341	Pg	05 55.20 0.0	
			eS	13 25.96			0.6s		0.50nm		4.0mb				Sg	06 10.90		
PWA	2.26	40	eP	13 00.44	-1.1		S.D. = 1.3	on	8 of	16 obs.			CDF	1.29	15	Pg	06 02.20 0.0	
PLRM	2.48	47	eP	13 02.31	-2.1		* APR 06, 1991	21h 55m	14.55±0.71s						Sg	06 22.60		
LTI	2.55	86	eP	13 03.63	-1.8		10.870 S ±11.9km	166.888 E ±11.1km					LOR	1.98	274	Pg	06 12.20 0.0	
KNIM	2.62	79	ePd	13 04.13	-2.3		DEPTH = 33.0km (normal)								Sg	06 37.00		
KNK	2.64	55	ePd	13 04.34	-2.3		4.2mb (4 obs.)	4.6Msz (1 obs.)						S.D. = 0.0	on	4 of	4 obs.	
MTU	2.65	87	eP	13 05.34	-1.5		SANTA CRUZ ISLANDS	(184)					* APR 06, 1991	23h 19m	32.00±0.95s			
GHO	2.67	45	ePd	13 04.95	-2.2									5.865 S ±8.6km	77.027 W ±20.1km			
CUT	2.77	27	eP	13 07.46	-0.9	HNR	6.98	281	e(P)	56 58.00	0.8			DEPTH = 45.9 ±13.3 km		(111)		
TRF	3.72	19	eP	13 20.53	-0.9				eS	58 38.00				4.0mb (2 obs.)				
KLU	3.77	63	ePd	13 19.18	-2.8	SVO	7.17	283	eP	57 01.00	1.1		TUNG	4.64	342	P	20 40.50 -1.2	
TOA	3.92	54	eP	13 22.02	-2.1	DZM	11.15	182	iPd	57 55.90	1.1				S	21 33.90		
RND	3.96	28	ePd	13 22.86	-1.8	RMO	23.11	225	eP	00 27.00	8.3X		VC1	5.37	345	P	20 51.20 -1.0	
GLB	4.72	68	eP	13 32.45	-2.5	STK	31.35	224	eP	01 54.10	19.7X		GGP	5.87	344	eP	21 00.60 1.3	
WRH	5.06	25	ePc	13 37.19	-2.4		0.8s		1.90nm				YANA	5.92	345	eP	21 02.00 2.1	
HDA	5.26	30	eP	13 39.87	-2.5	WB2	32.58	250	eP	01 43.60	-1.8		CAYA	5.98	351	P	21 00.00 -0.8	
CCB	5.27	25	eP	13 39.71	-2.8		0.9s		3.30nm		4.2mb		NNA	6.09	178	iPd	21 02.30 0.5	
BALM	5.34	74	ePd	13 41.63	-2.0	ASPA	33.88	244	eP	01 55.80	-0.8			0.5s		52.82nm	5.3mb X	
MDM	5.46	21	eP	13 42.56	-2.7		1.9s		5.40nm		4.1mb		PT10	6.17	179	eP	21 02.50 -0.5	
CTGM	5.82	75	eP	13 48.61	-1.7	BJI	69.06	320	eP	06 19.00	-0.2				iS	22 09.50		
YKA	18.43	66	eP	16 30.80	-3.3	LZH	75.47	312	eP	06 56.60	-1.1				eS	22 11.20		
	0.4s		0.40nm		3.1mb		2.0s		32.00nm		5.0mb		COTA	6.30	348	eP	21 08.50 3.3X	
	52 obs.		associated			Z	20s		0.29um		4.6Msz		HUA	6.36	165	iPc	21 08.00 2.0	
									pP	07 01.50	16kmX				iS	22 22.00		
* APR 06, 1991	18h 13m	23.12±0.63s				YAK	78.23	343	eP	07 12.90	0.7		LP8	13.74	141	P	22 51.00 4.3X	
5.774 S ±10.1km	77.081 W ±19.8km					CMB	83.38	49	eP	07 41.30	1.3			Z	21s		1.08um	
DEPTH = 33.0km (normal)						YKA	94.30	27	eP	08 30.80	-0.7				LR	28 10.00		
4.7mb (3 obs.)							0.9s		0.70nm		4.1mb				eP	22 48.00 -2.6		
NORTHERN PERU		(111)				PDCR	145.25	131	ePKP	14 51.10	-0.4				i	23 00.80		
									e	14 57.30					eP	23 23.00 7.5X		
NNA	6.18	178	iP	14 54.50	-0.1		S.D. = 1.2	on	11 of	13 obs.				SIV	18.60	124	P	23 47.60 -0.5
	0.7s		36.99nm		5.2mb		? APR 06, 1991	22h 09m	24.62±8.81s				ALO	49.16	328	eP	28 16.50 -1.2	
PT10	6.26	179	eP	14 54.20	-1.5		22.178 N ±55.9km	120.002 E ±40.5km						0.9s		2.10nm	4.2mb	
			eS	15 03.50			DEPTH = 10.0km (geophysicist)											
HUA	6.46	165	iPd	15 01.10	2.2	TAIWAN												
			iS	16 18.50		TWK	1.17	22	eP	09 46.50	0.0							
LPB	13.85	141	P	16 41.00	1.2	TWG	1.18	57	ePd	09 46.70	0.1							
	Z	16s		0.67um					eS	10 07.20								
			LR	22 34.00		TWF1	1.67	45	ePd	09 54.00	-0.1							
CNCB	14.13	142	eP	16 42.00	-1.7	TWO	2.22	20	ePd	10 02.20	0.1							
			i	16 53.30		TWD	2.40	37	eP	10 04.20	-0.3							
SIV	18.70	124	P	17 40.60	-0.6													
TUL	45.03	338	e(P)	21 36.10	-1.5													
ALO	49.05	328	eP	22 09.80	0.4													
	0.9s		6.30nm		4.6mb													

06d 23h

GKN 151.93 36 PKP 39 25.00 7.3X
 GUN 152.72 35 PKP 39 31.80 12.7X
 S.D. = 1.5 on 16 of 22 obs.

APR 06, 1991 23h 33m 41.80 ± 0.58s
 46.015 N ± 6.7km 14.900 E ± 4.4km
 DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)
 ML 2.7 (VKA), 2.6 (ZAG), 2.5
 (VIE), MD 2.8 (LJU), 2.7 (TRI).
 Felt (IV) at Litija and Zogorje
 ob Sovi.

LJU	0.26	276	iPgc	33	47.00	-0.2
			iSg	33	50.50	
CEY	0.43	230	ePg	33	50.40	-0.2
			iSg	33	56.50	
VBY	0.57	154	ePg	33	53.90	0.6
			iSg	34	03.80	
VOY	0.70	272	iPgc	33	54.60	-1.1
			eSg	34	05.80	
PTJ	0.75	98	iPgc	33	55.60	-0.9
RIY	0.76	208	ePg	33	57.20	0.5
			iSg	34	08.10	
ZAG	0.78	104	iPg	33	57.20	0.2
			i	34	08.30	
			iSg	34	10.50	
TRI	0.85	249	ePg	33	57.10	-1.1
			iSg	34	10.00	
KBA	1.51	315	iPgc	34	08.60	-0.5
			i	34	22.30	
			iSg	34	28.20	
FVI	1.58	292	P	34	10.70	0.9
			eSg	34	32.90	
CTI	2.26	272	P	34	20.90	1.0
			eSn	34	48.00	
VKA	2.45	23	eP	34	27.00	4.6X
			eSg	34	49.50	
WTTA	2.57	300	iPgc	34	25.30	0.9
			iSg	34	57.00	
ZST	2.65	34	eP	34	58.50	33.2X
			i	35	07.90	
GRF	4.43	327	e(Pg)	34	59.00	8.4X
			e(Sg)	36	00.00	

S.D. = 0.9 on 12 of 15 obs.

* APR 07, 1991 00h 40m 55.92 ± 0.76s
 5.893 S ± 11.9km 76.979 W ± 17.2km
 DEPTH = 33.0km (normal)
 4.4mb (3 obs.)

NORTHERN PERU (111)

NNA	6.06	179	iPd	42	26.00	0.3
	0.7s		27.40nm			5.0mb X
			eS	43	31.50	
PT10	6.14	180	eP	42	35.50	8.7X
			eS	43	40.50	
HUA	6.32	165	iP	42	23.50	-6.2X
			iS	43	39.50	
ZOBO	13.48	141	P	44	06.00	-1.9
	20s		0.83um			
			LR	49	00.00	
			S	57	24.00	
LPB	13.69	141	P	44	12.00	1.4
	20s		2.13um			
			LR	49	45.00	
CNCB	13.98	142	P	44	23.00	8.5X
CCH	15.58	138	eP	44	59.00	23.9X
SIV	18.55	124	P	45	11.80	-0.4
PDCR	37.91	103	eP	48	12.10	-0.1
ALQ	49.21	328	eP	49	43.30	-0.1
	1.0s		5.00nm			4.5mb
LKO	72.76	78	P	52	24.34	0.8
KIC	73.12	82	P	52	26.00	0.4
YKA	74.01	343	eP	52	27.70	-2.1
	0.6s		0.40nm			3.6mb
INK	83.73	342	eP	53	23.00	0.5
MBC	85.59	351	eP	53	33.00	1.2
	1.0s		5.00nm			4.7mb

S.D. = 1.3 on 11 of 15 obs.

* APR 07, 1991 01h 03m 07.97 ± 1.28s
 9.728 S ± 14.2km 74.634 W ± 9.0km
 DEPTH = 139.4 ± 15.7 km
 4.6mb (15 obs.)

PERU (116)

HUA	2.39	196	iPc	03	47.40	-0.8
			iS	04	19.40	
NNA	3.12	224	iPc	03	56.50	-0.7
	0.7s		68.49nm			
			eS	04	31.00	
PT10	3.27	224	iPc	03	36.50	-22.6X
			eS	04	12.50	
ARE	7.36	156	eP	04	55.00	0.6
ZOBO	9.08	136	P	05	18.00	0.3
LPB	9.29	137	P	05	22.00	1.7
CNCB	9.56	138	P	05	26.00	1.9
SIV	14.61	117	P	06	27.60	-1.6
PPD	25.50	121	(P)	08	24.00	-1.2
BAO	26.63	105	eP	08	32.40	-3.3X
PDCR	34.94	98	eP	09	46.90	-1.7
TUL	49.59	337	eP	11	46.70	-0.1
	1.0s		13.90nm			4.7mb
ALO	53.67	327	eP	12	17.50	-0.2
	0.9s		3.78nm			4.3mb
GAC	55.18	359	eP	12	28.50	0.4
	0.5s		2.00nm			4.3mb
SCH	64.64	5	eP	13	32.00	-0.6
LRM	64.88	332	eP	13	35.00	0.4
SES	67.74	336	ePd	13	52.30	-0.1
			pP	14	24.00	129kmX
FFC	68.21	343	eP	13	54.50	-0.7
	0.6s		5.00nm			4.5mb
LKO	71.33	76	P	14	13.58	-1.3
	0.4s		5.50nm			4.7mb
KIC	71.44	80	P	14	14.20	-1.3
	0.5s		2.50nm			4.3mb
FRB	73.41	3	eP	14	26.00	0.0
YKA	78.34	342	eP	14	53.00	-0.9
	0.8s		3.30nm			4.1mb
MFF	86.55	42	eP	15	37.10	0.6
LDF	87.18	40	eP	15	39.90	0.5
TCF	88.01	43	eP	15	43.30	-0.3
INK	88.08	341	ePd	15	43.90	0.6
BGF	88.51	42	eP	15	46.20	0.3
	0.6s		7.20nm			4.9mb
AVF	88.91	42	eP	15	47.70	0.0
	0.7s		3.30nm			4.5mb
SMF	89.20	42	eP	15	49.50	0.4
	0.7s		4.40nm			4.6mb
LOR	89.37	42	eP	15	49.50	-0.4
	0.5s		2.20nm			4.5mb
MBC	89.73	350	ePd	15	52.80	1.8
	0.6s		10.00nm			5.0mb
LPL	90.88	44	eP	15	58.20	1.0
	0.6s		1.80nm			4.4mb
CDF	91.88	41	eP	16	01.80	0.2
	0.9s		6.55nm			4.8mb
NB2	96.43	29	P	16	23.70	1.6
	1.0s		3.50nm			4.8mb
STK	126.04	218	ePKP	22	15.10	19.4X
	1.2s		2.20nm			
ASPA	136.64	220	iPKPc	22	15.80	-0.4
	0.6s		3.80nm			
WB2	138.97	224	iPKPd	22	20.60	0.1
	0.6s		8.20nm			
			i	22	22.60	
GBA	152.39	79	PKPc	22	50.40	7.8X
	0.8s		3.60nm			

S.D. = 1.0 on 34 of 38 obs.

* APR 07, 1991 02h 29m 26.47 ± 1.64s
 39.222 N ± 14.5km 20.513 E ± 8.5km
 DEPTH = 10.0km (geophysicist)
 GREECE-ALBANIA BORDER REGION (392)
 MD 2.9 (ATH).

IGT	0.34	336	iPc	29	32.94	-0.6
			eS	29	39.22	
KEK	0.74	312	ePb	29	41.30	0.3
VLS	1.05	177	ePb	29	47.50	1.3X
AGG	1.43	97	ePd	29	52.22	-0.2
			eS	30	11.98	
KZN	1.45	41	ePb	29	52.80	0.0
FNA	1.69	23	ePc	29	56.46	0.2
			iS	30	19.94	
OHR	1.90	7	ePn	30	02.30	3.0X
GRG	2.26	39	ePc	30	04.66	0.2
			eS	30	35.10	
KNT	2.66	43	ePc	30	10.26	0.1
			eS	30	44.86	
SKO	2.84	14	e(Pn)	30	19.00	6.4X

S.D. = 0.4 on 7 of 10 obs.

& APR 07, 1991 04h 27m 07.81s
 65.136 N 148.767 W
 DEPTH = 23.8km
 ALASKA (676)
 <AEIC>. ML 2.5 (AEIC).

MDM	0.29	128	iP	27	14.27	-0.4
RDS	0.41	139	eP	27	17.10	0.6
FBA	0.48	119	eP	27	17.74	0.2
			eS	27	23.93	
NEA	0.58	193	eP	27	17.91	-1.3
			eS	27	26.19	
GLM	0.60	104	eP	27	19.50	-0.2
			S	27	28.06	
CCB	0.64	140	eP	27	20.02	-0.2
			iS	27	29.35	
WRH	0.73	156	iP	27	21.34	-0.4
			S	27	31.00	
BWN	1.01	198	eP	27	25.39	-1.1
HDA	1.07	133	eP	27	26.33	-1.0
MCK	1.41	183	eP	27	32.49	0.3

10 obs. associated

& APR 07, 1991 05h 14m 42.36s
 59.810 N 152.499 W
 DEPTH = 77.2km
 2.6mb (1 obs.)
 SOUTHERN ALASKA (2)
 <AEIC>.

HOM	0.46	109	iPc	14	55.33	-0.3
			eS	15	05.49	
XLV	0.53	132	ePc	14	55.48	-0.8
			eS	15	06.18	
RED	0.63	348	iPd	14	56.69	-0.6
			iS	15	08.02	
AUE	0.63	225	iPd	14	56.66	-0.6
NNL	0.65	68	iPc	14	57.83	0.4
AUH	0.66	227	iPd	14	57.10	-0.5
RSO	0.67	349	iPd	14	57.31	-0.6
			eS	15	08.83	
RS2	0.67	349	iPd	14	57.36	-0.5
			eS	15	08.86	
AUI	0.67	225	ePd	14	56.97	-0.7
			eS	15	08.18	
REF	0.69	352	iPd	14	57.53	-0.6
			eS	15	09.34	
RDW	0.69	347	iPd	14	57.53	-0.6
			eS	15		

APR 07, 1991 05h 21m 42.85±0.60s 44.186 N ± 7.1km 10.709 E ± 6.2km DEPTH = 10.0km (geophysicist)					WET 3.35 222 iPnc 36 03.60 -0.4 VKA 3.41 180 iP 36 13.20 8.3X i (Sg) 36 53.80 i 36 55.30					NEW 69.19 44 eP 20 13.10 1.5 1.1s 0.93nm 3.8mb HFS 72.09 335 eP 20 28.60 -0.3 0.5s 1.20nm 4.2mb				
NORTHERN ITALY (545)					GRF 3.79 240 ePn 36 09.80 -0.5 ePg 36 22.50 eSg 37 08.20					NB2 72.19 337 P 20 28.80 -0.7 0.7s 2.40nm 4.3mb				
MME 0.01 319 Pd 21 44.20 -0.8 eSg 21 47.30					KBA 4.99 204 ePn 36 27.00 -0.4 iSg 37 45.00					BW06 76.76 45 eP 20 56.00 -0.4 1.0s 4.00nm 4.4mb				
BDI 0.15 213 Pd 21 46.40 0.1 eSg 21 51.00					NRA0 9.46 346 Pn 37 28.50 -1.3 Sn 39 11.30					ZOBO 146.19 56 PKP 28 45.50 0.5 S.D. = 1.3 on 30 of 32 obs.				
FIR 0.57 136 e(Pg) 21 57.50 3.2X i(Sg) 22 05.00					YKA 59.76 336 eP 45 19.20 1.7 0.9s 0.50nm 3.6mb S.D. = 1.1 on 10 of 11 obs.					% APR 07, 1991 09h 14m 29.62±1.63s 33.438 S ± 7.7km 71.363 W ±12.8km DEPTH = 10.0km (geophysicist)				
SFI 0.87 107 P 21 59.40 -0.1 eSg 22 12.20					* APR 07, 1991 08h 43m 58.00±0.57s 5.918 S ± 9.4km 76.834 W ±13.3km DEPTH = 33.0km (normal) 3.6mb (2 obs.)					NEAR COAST OF CENTRAL CHILE (135)				
CRE 1.06 121 P 22 02.80 0.0					NORTHERN PERU (111)					TACH 0.41 121 iPc 14 39.10 1.0 iS' 14 47.60				
BOB 1.07 303 P 22 03.10 0.0					NNA 6.03 180 iP 45 27.50 0.1 0.7s 20.55nm 4.9mb X eS 46 38.00					LNV 0.52 184 iPc 14 40.00 -0.1 iS 14 48.00				
CTI 1.98 19 P 22 17.10 0.3 eSn 22 40.70					ZOBO 13.37 141 P 47 08.00 -0.5 Z 20s 0.35um i 47 19.80 LR 53 36.00					ROCH 0.55 32 eP 14 41.20 0.2 iS 14 51.00				
VAI 2.17 321 P 22 19.90 0.4 S.D. = 0.5 on 7 of 8 obs.					LPB 13.58 142 P 47 02.00 -9.2X Z 15s 0.67um i 47 23.00 LR 53 10.00					SAN 0.59 92 iPc 14 41.40 -0.1 iS 14 50.80				
% APR 07, 1991 06h 14m 32.76±0.81s 41.074 N ± 8.9km 16.280 E ± 5.8km DEPTH = 10.0km (geophysicist)					CNCB 13.87 142 eP 47 21.00 5.9X i 47 25.40					PEL 0.64 63 iPc 14 42.50 0.0 iS 14 52.00				
SOUTHERN ITALY (390)					CCH 15.46 138 eP 47 46.00 10.3X SIV 18.41 124 P 48 13.20 0.6 PDCR 37.77 103 (P) 51 13.00 -0.1 ANMO 49.31 328 eP 52 46.90 0.7 1.0s 0.75nm 3.7mb					PCH 0.73 105 iPc 14 43.00 -1.1 iS 14 53.70 S.D. = 0.9 on 6 of 6 obs.				
BAI 0.45 84 P 14 42.00 0.2 eSg 14 48.00					KIC 72.98 82 P 55 27.00 0.1 YKA 74.08 343 eP 55 32.50 0.2 0.8s 0.40nm 3.5mb					APR 07, 1991 09h 39m 36.65±0.21s 16.304 N ± 3.7km 97.476 W ± 4.1km DEPTH = 24.7km (8 depth phases) 5.2mb (53 obs.) 4.5Msz (5 obs.) OAXACA, MEXICO (60) Felt at Oaxaca. CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 9S, 17C Centroid Location: Origin Time 09:39:46.5 1.1 Lat 16.95N 0.14 Lon 97.27W 0.17 Dep 46.614.7 Half-duration 1.5 Moment Tensor: Scale 10**16 Nm Mrr= 3.13 0.78 Mtt=-5.34 1.06 Mff= 2.21 1.62 Mrt=-0.31 1.38 Mrf=-2.31 1.08 Mtf=-1.80 0.65 Principal Axes: T Vol= 5.11 Plg=49 Azm= 82 N 0.72 41 251 P -5.83 6 346 Best Double Couple: Mo=5.5*10**16 NP1: Strike=111 Dip=53 Slip= 145 NP2: 224 63 43				
BRT 0.73 105 P 14 45.10 -1.9 eSg 14 54.40					INK 83.80 342 eP 56 24.00 -1.0 MBC 85.64 351 eP 56 34.00 -0.1 S.D. = 0.6 on 9 of 12 obs.									
SGO 0.90 235 P 14 50.00 0.0 eSg 15 04.70					APR 07, 1991 09h 09m 04.75±0.71s 38.949 N ± 6.2km 140.628 E ± 8.5km DEPTH = 21.8 ± 6.1 km 4.3mb (7 obs.)									
ORI 1.02 173 P 14 52.30 0.3 eSg 15 09.00					HONSHU, JAPAN (227)									
MGR 1.09 211 P 14 53.00 -0.2 eSg 15 09.50					OFUJ 0.82 80 iPd 09 18.50 -1.7 S 09 29.60					OXX 1.06 43 iPd 39 58.31 2.2 ACX 2.35 284 iP 40 10.83 -3.7X iS 40 42.50				
TDS 1.41 178 P 14 57.90 -0.6					AOMJ 1.62 353 P 09 32.50 0.2 NIUJ 2.13 217 iP+ 09 39.80 0.1 S 10 09.00					IISM 2.67 2 iP 40 19.75 0.8 iS 40 53.00				
LCI 1.47 120 P 15 01.50 2.2 eSg 15 22.20					KAKJ 2.76 188 P 09 48.90 0.3 MAT 3.07 219 iPc 09 53.30 0.2 (S) 10 32.00					III 2.80 318 iP 40 20.91 -0.2 IIT 2.82 344 iP 40 21.65 0.4 iS 40 50.12				
DUI 1.49 294 P 14 59.90 0.2					CHJJ 3.17 205 P 09 56.90 2.4 MTMJ 3.25 224 P 09 56.30 0.6					PPM 2.96 338 eP 40 23.66 0.1 (S) 41 05.11				
SDI 1.96 290 P 15 06.20 -0.2 S.D. = 1.2 on 9 of 9 obs.					MRRJ 3.49 5 eP 10 01.20 2.3 HOOJ 3.98 30 eP 10 06.90 1.0					IIA 3.05 338 iP 40 24.88 0.6 UNM 3.42 332 (P) 40 30.70 0.8 (S) 41 24.00				
APR 07, 1991 06h 44m 08.30±0.65s 41.037 N ± 6.1km 22.521 E ± 5.5km DEPTH = 10.0km (geophysicist)					IIRJ 4.08 213 P 10 09.50 2.0 TSRJ 5.03 229 P 10 25.20 4.4X					LVVM 3.55 16 iP 40 29.62 -1.9 (S) 41 31.40				
YUGOSLAVIA (383) ML 1.9 (SKO).					KUSJ 5.17 35 eP 10 21.40 -1.3 ASAJ 5.38 16 eP 10 26.30 0.6					CRX 3.73 326 (P) 40 36.20 1.8 SCX 4.66 84 (P) 40 53.46 6.1X (S) 41 42.38				
GRG 0.12 228 ePc 44 11.80 0.5 eS 44 14.16					GUN 46.39 273 P 17 31.46 -0.3 KKN 46.91 274 P 17 35.76 0.0 0.7s 13.00nm 5.1mb					MRX 4.89 314 iP 40 50.61 0.1 (S) 41 25.00				
VAY 0.29 7 iPg 44 13.00 -1.3 iSg 44 16.40					PKI 46.91 273 P 17 33.84 -2.1 DMN 47.13 274 P 17 36.78 -0.8 GKN 47.31 274 P 17 38.54 -0.3					TPX 5.21 105 (P) 40 10.79 -44.3X (S) 41 22.89				
KNT 0.31 66 ePc 44 15.00 0.2 eS 44 19.72					FBA 47.83 33 eP 17 44.80 2.6 1.3s 0.80nm 3.6mb					CGX 6.62 302 (P) 41 16.70 1.5 (S) 42 51.50				
THE 0.53 140 ePd 44 18.80 -0.2 eS 44 27.32					INK 52.98 28 eP 18 21.00 -0.4 MBC 54.87 17 eP 18 35.00 -0.3					AGX 7.18 321 (P) 42 16.59 53.9X MZX 10.86 311 (P) 42 14.75 1.0 (S) 45 17.96				
SOH 0.67 109 iPd 44 21.04 -0.6 eS 44 31.84					WB2 58.88 187 iPc 19 02.50 -1.7 0.6s 4.00nm 4.7mb					UPA 18.95 110 iPc 44 01.00 2.4 1.0s 34.00nm 4.5mb				
SRS 0.81 84 ePc 44 24.52 0.4 eS 44 35.76					YKA 62.47 30 eP 19 47.70 19.4X 0.8s 0.40nm					Z 22s 0.63um i 44 14.00				
FNA 0.90 254 ePd 44 25.28 -0.4 eS 44 37.88					SOD 62.96 337 iP 19 31.20 -0.3 KAF 66.33 332 eP 19 52.00 -1.4					TUL 19.58 4 eP 44 02.20 -3.8X				
MMB 1.06 58 ePg 44 28.00 -0.4					NUR 67.97 331 eP 20 03.00 -0.8									
VTS 1.64 18 eP 44 39.00 1.7														
RZN 1.78 68 eP 44 44.00 4.6X														
KDZ 2.26 73 eP 44 59.00 12.6X S.D. = 1.0 on 9 of 11 obs.														
% APR 07, 1991 08h 35m 10.60±1.18s 51.671 N ± 7.6km 16.305 E ± 12.9km DEPTH = 10.0km (geophysicist) 3.6mb (1 obs.)														
POLAND (548) ML 3.6 (GRF), 3.3 (KBA).														
KSP 0.83 181 iP 35 26.60 0.0 iS 35 36.10														
BRG 1.68 243 iPg 35 41.00 0.8 iSg 36 01.20														
CLL 2.10 261 iPn 35 45.50 -0.7 iPg 35 47.80														
HOF 3.11 246 iPnc 36 00.20 -0.4 ePg 36 15.00														
MOX 3.13 253 ePn 36 02.00 1.2 iPg 36 09.00														

07d 09h

	0.8s	142.70nm	5.3mb		0.9s	13.80nm	5.1mb		0.9s	10.50nm	5.1mb
Z	21s	1.02um		RSO	59.11	332 P	49 36.50 -1.0	KIC	90.85	83 P	52 39.96 0.0
		eS	47 31.70	PPD	59.13	129 eP	49 36.40 -1.5		1.0s	16.50nm	5.3mb
		LR	50 02.00	SVW	60.66	332 eP	49 46.60 -1.3	KBA	91.70	40 iPd	52 43.60 0.0
BIX	19.65	4 iP	44 07.10 0.4	MBC	61.04	354 ePd	49 49.30 -0.9		1.0s	12.70nm	5.3mb
ALO	20.23	33B iPd	44 12.00 -1.0		1.0s	41.00nm	5.5mb	KSP	91.70	35 eP	52 43.40 0.2
	1.0s	55.50nm	4.9mb	IMA	61.80	337 eP	49 52.60 -3.1X	ZST	93.43	38 eP	52 51.70 0.4
ANMO	20.23	338 P	44 13.00 0.0	VAO	62.98	127 ePd	50 03.20 -0.8			e	00 45.70
	1.3s	120.19nm	5.1mb			e	50 11.20 26km	YAK	93.54	340 iP	52 51.00 -0.5
RSCP	21.96	27 P	44 28.00 -2.4	PDCR	64.41	113 eP	50 12.70 -0.8	PTJ	93.84	40 eP	52 53.10 -0.2
FVM	22.47	15 P	44 35.00 -0.5	8RW	65.02	342 eP	50 15.50 -1.1	SRO	94.33	37 eP	52 56.10 0.7
GLA	22.89	320 eP	44 42.00 2.3	ANM	65.94	334 eP	50 22.00 -0.6			e	00 45.10
BAR	23.83	317 eP	44 49.00 0.2	DAG	71.65	14 iPd	50 57.20 -0.6	LZH	124.13	339 ePKP	58 36.50 1.2
GOL	24.31	345 P	44 54.00 0.4		0.8s	15.67nm	5.1mb		1.3s	25.00nm	
GLD	24.32	345 P	44 54.50 0.8	EKA	79.18	35 Pc	51 41.30 0.4	Z	28s	0.50um	5.0MsZ
TPC	24.35	320 eP	44 53.00 -0.9		1.0s	21.90nm	5.1mb			pP	58 44.50
PLM	24.38	318 P	44 54.50 0.2	LPF	82.27	42 eP	51 57.50 0.1	WB2	130.76	258 ePKP	58 46.60 -1.6
PEC	24.91	318 P	45 00.00 0.7		0.9s	29.50nm	5.3mb		0.6s	13.70nm	
GSC	25.62	321 eP	45 08.00 2.0	GRR	82.29	42 eP	51 57.70 0.2	ASPA	131.37	253 iPKPc	58 48.40 -0.9
BLA	25.72	33 eP	45 06.00 -0.8		0.8s	24.20nm	5.3mb		0.8s	11.80nm	
	1.2s	109.38nm	5.4mb	FLN	82.43	41 eP	51 58.60 0.4	POO	144.35	14 ePKP	59 08.50 -4.7X
SBB	25.84	319 eP	45 11.00 3.0X		1.0s	48.00nm	5.5mb	NWAO	144.57	236 ePKP	59 10.20 -3.0X
CLC	26.44	321 eP	45 16.00 2.5	Z	18s	0.28um	4.7MsZ	MEKA	145.06	247 ePKP	59 11.70 -2.5X
ISA	26.88	320 eP	45 21.00 3.4X	LDF	82.70	42 eP	52 00.10 0.5	KHT	145.27	332 iPKPc	59 13.60 -1.2
TNP	27.79	325 P	45 26.00 -0.1		0.9s	22.95nm	5.3mb	MUN	145.70	237 ePKP	59 14.00 -1.1
	0.8s	7.35nm	4.4mb	MAL	82.83	54 iPd	52 02.20 1.7		0.9s	85.00nm	
CBN	28.08	35 eP	45 29.00 0.7	LFF	84.32	45 eP	52 08.30 0.4	BAL	145.72	239 iPKPc	59 13.70 -1.5
RSSD	28.28	350 P	45 30.00 -0.4		0.8s	26.85nm	5.5mb		0.6s	55.00nm	
	1.3s	16.89nm	4.6mb	LSF	84.46	44 eP	52 08.50 -0.1	HYB	146.27	7 iPKPc	59 15.40 -1.1
BW06	28.34	341 iP	45 30.50 -0.4		0.8s	9.40nm	5.1mb		1.0s	50.00nm	
	1.0s	33.33nm	5.0mb	EPF	84.61	47 eP	52 11.10 1.6	GBA	149.86	10 PKPd	59 21.60 -0.5
		pP	45 37.90 26km	NB2	84.61	28 P	52 09.70 0.6		0.7s	12.80nm	
PRS	29.13	318 e(P)	45 39.20 1.4		1.0s	26.20nm	5.4mb	SNG	150.59	321 ePKP	59 28.10 4.8X
CMB	29.58	321 eP	45 41.00 -1.0	LPO	84.70	45 eP	52 10.20 0.3	IPM	152.33	317 ePKPc	59 32.10 6.2X
ORV	31.23	323 P	45 57.00 0.5		1.0s	40.80nm	5.6mb		0.9s	24.90nm	
TXNY	31.92	34 iP	46 02.50 0.1	RJF	84.74	44 eP	52 10.20 0.1	KOD	153.16	11 ePKP	59 34.00 6.6X
LRM	31.99	340 eP	46 02.90 -0.5		0.7s	9.90nm	5.2mb		S.D. = 1.0 on 129 of 144 obs.		
RSNY	34.17	30 P	46 22.00 0.0	Z	19s	0.15um	4.4MsZ		APR 07, 1991 09h 40m 51.36±0.64s		
GAC	34.61	28 eP	46 25.50 -0.3	SNF	84.85	39 P	52 11.30 0.9		59.266 S ± 8.6km 149.191 E ± 36.9km		
	0.5s	2.00nm	4.3mb	TCF	84.90	43 eP	52 11.10 0.2		DEPTH = 10.0km (geophysicist)		
NEW	35.72	337 eP	46 35.80 0.5		0.9s	22.95nm	5.4mb		4.9mb (4 obs.) 5.0MsZ (4 obs.)		
	0.8s	6.25nm	4.6mb	MAF	85.15	43 eP	52 12.30 0.2		WEST OF MACQUARIE ISLAND (701)		
SES	35.72	345 eP	46 35.00 -0.3		1.0s	35.00nm	5.5mb	DRV	8.51	205 P	43 04.00 6.6X
	1.1s	71.00nm	5.5mb	DOU	85.18	39 P	52 12.90 0.8			S	44 55.00
		pP	46 42.00 24km		1.0s	38.90nm	5.6mb	SBA	19.56	169 iP	45 22.20 0.5
PNT	37.53	336 eP	46 51.00 0.6	CAF	85.22	45 eP	52 13.20 0.7			iS	49 08.80
	1.0s	29.00nm	5.1mb	BGF	85.23	43 eP	52 12.50 0.0	TOO	21.84	352 ePd	45 45.50 -0.1
FFC	38.50	356 iPd	46 57.50 -1.0		1.0s	40.00nm	5.6mb	BFD	22.52	346 eP	45 53.70 1.4
	1.0s	40.00nm	5.2mb	AVF	85.48	43 eP	52 13.50 -0.2	CNB	23.96	0 iPc	46 08.90 2.5
EDM	38.89	345 eP	47 01.50 -0.4		0.9s	14.75nm	5.2mb	SNZO	24.01	53 eP	46 12.00 5.3X
CBM	39.03	32 P	47 01.00 -2.0	SSF	85.50	42 eP	52 13.70 -0.1			eS	51 12.00
ARE	41.43	141 eP	47 25.00 1.5		1.0s	30.00nm	5.5mb	ADE	25.27	340 eP	46 20.00 1.0
ZOBO	43.43	137 iPc	47 40.70 0.6	LOR	85.66	42 eP	52 14.70 0.1	SPA	30.90	180 eP	47 10.00 0.0
	1.0s	47.50nm	5.2mb		0.8s	36.25nm	5.7mb		1.0s	10.50nm	4.7mb
Z	22s	0.62um	4.5MsZ	LBF	85.83	42 eP	52 15.20 -0.3	Z	20s	2.34um	4.8MsZ
		LR	03 08.00		1.0s	22.00nm	5.3mb	BRS	31.96	6 iPc	47 18.80 -0.6
LPB	43.64	137 iPc	47 42.90 1.3	SMF	85.85	43 eP	52 15.30 -0.3	RMQ	32.76	359 eP	47 25.00 -1.3
	1.0s	44.00nm	5.2mb		0.8s	7.40nm	5.0mb	ASPA	37.18	336 eP	48 03.30 -0.9
Z	16s	1.35um	4.9MsZ	MEM	85.85	38 P	52 16.60 1.2		0.8s	18.40nm	4.9mb
		LR	03 20.00	HFS	86.10	28 eP	52 16.00 -0.5	Z	22s	1.00um	4.6MsZ
CNCB	43.91	137 iPc	47 45.00 1.0		0.6s	1.50nm	4.4mb	CTA	39.19	356 iPc	48 22.00 1.0
		i	49 31.00 602kmX	HAU	86.98	41 eP	52 21.60 0.5		1.0s	50.00nm	5.1mb
SCH	45.13	25 eP	47 51.00 -1.8		0.6s	7.20nm	5.1mb	QIS	39.28	346 eP	48 21.00 -0.7
CCH	45.54	136 P	47 59.50 2.7	Z	19s	0.20um	4.5MsZ	WB2	40.71	338 eP	48 32.00 -1.6
YKA	47.69	349 eP	48 10.80 -2.0	ABH	87.04	39 eP	52 21.48 0.1		0.7s	20.00nm	4.9mb
	0.9s	6.70nm	4.7mb	SOD	87.20	19 iP	52 20.50 -1.3	NVL	46.82	198 eP	49 23.00 0.8
ANT	47.75	146 iPd	48 15.50 1.7	BSF	87.32	41 eP	52 22.50 -0.4	Z	21s	5.10um	5.5MsZ
SIV	48.17	130 iPc	48 16.50 -0.7		0.6s	4.50nm	4.9mb	INK	138.98	34 ePKP	00 16.00 -2.1X
FRB	51.42	16 eP	48 41.00 -0.4	CDF	87.41	40 eP	52 23.00 -0.3	YKA	141.79	48 ePKP	00 21.80 -1.5
PEL	55.43	153 iPc	49 11.00 -0.6		0.7s	5.50nm	4.9mb		1.0s	1.20nm	
SAN	55.71	153 eP	49 13.00 -0.5	UPP	87.98	27 iP	52 24.80 -0.8	MLR	143.90	273 ePKP	00 27.00 -0.6
LNV	55.81	154 eP	49 14.00 -0.2			i	52 33.10 26km	CMP	144.21	272 ePKPc	00 14.00 -14.0X
PCH	55.91	153 eP	49 15.00 -0.1	LKO	89.15	80 Pc	52 31.72 -0.4	OBN	144.64	294 ePKP	00 25.00 -3.4X
INK	56.79	345 eP	49 20.00 -0.9		1.1s	32.50nm	5.6mb		2.0s	*****nm	
	1.0s	31.00nm	5.3mb	GRF	89.30	38 eP	52 33.00 0.8	Z	20s	0.40um	5.2MsZ
TOA	57.02	335 eP	49 23.50 0.8			e	52 41.00 25km			i	00 35.50
PMR	58.00	334 eP	49 29.40 0.0	CLL	89.64	36 eP	52 34.00 0.3	MBC	146.74	26 ePKP	00 34.00 2.7X
	0.8s	13.00nm	5.0mb	KAF	90.28	23 eP	52 35.00 -1.5		0.7s	6.00nm	
BAO	58.24	121 ePc	49 31.40 -0.5	BRG	90.37	36 iP	52 37.00 -0.1	SPC	149.24	274 ePKP	00 44.90 8.6X
RUV	58.37	240 iP	49 31.70 -0.9		1.2s	11.00nm	5.0mb	KRA	149.94	275 ePKP	00 44.20 7.1X
	0.8s	15.00nm	5.1mb			i	52 45.20 26km			e	00 51.50
TPT	58.46	241 iP	49 32.20 -1.1	TIC	90.50	83 P	52 38.16 -0.3	KSP	152.28	273 ePKP	00 52.70 12.1X
	0.8s	15.00nm	5.1mb		0.9s	5.50nm	4.9mb	KAF	152.67	301 ePKP	00 53.00 12.3X
PMO	58.70	241 iP	49 34.00 -0.9	NUR	90.59	25 eP	52 45.00 7.1X	NUR	152.84	297 ePKP	00 58.00 17.0X
	0.8s	10.00nm	5.0mb	LIC	90.61	83 P	52 38.74 -0.2				
FBA	59.08	338 eP	49 35.80 -1.2								

S.D. = 1.3 on 15 of 26 obs.

APR 07, 1991 09h 57m 28.95±1.10s
 44.256 N ± 7.3km 10.680 E ± 9.3km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)

MME	0.06	167	Pd	57	31.30	-0.2
			eSg	57	33.80	
BDI	0.20	197	Pc	57	33.50	0.1
			eSg	57	38.10	
PGD	0.84	117	P	57	45.30	0.0
SFI	0.91	111	P	57	46.00	-0.3
80B	1.02	301	P	57	50.70	2.4X
CRE	1.11	124	P	57	50.30	0.4
CTI	1.92	21	P	58	02.10	0.0
KBA	3.38	33	eP	58	36.00	13.0X
			e	00	50.00	

S.D. = 0.3 on 6 of 8 obs.

* APR 07, 1991 10h 24m 31.44±2.31s
 17.092 N ± 21.5km 100.933 W ± 13.9km
 DEPTH = 10.0km (geophysicist)
 3.1mb (3 obs.)
 GUERRERO, MEXICO (59)

ACX	1.05	102	iP	24	52.00	0.7
			iS	25	06.30	
III	1.89	47	iP	25	04.20	-0.1
			iS	25	27.95	
CRX	2.59	27	(P)	25	21.20	6.8X
MRX	2.61	355	iP	25	18.30	3.9X
UNM	2.78	36	(P)	25	22.30	5.2X
			(S)	26	01.30	
PPM	2.94	48	iP	25	19.00	-0.6
			(S)	25	59.50	
IIA	2.98	46	iP	25	20.00	0.4
IIT	3.15	52	eP	25	21.80	-0.5
			(S)	26	09.00	
CGX	3.54	318	(P)	25	01.50	-26.2X
IISM	3.87	60	(P)	25	38.50	6.2X
OXX	4.03	90	(P)	25	43.00	8.3X
			(S)	26	35.50	
MZX	7.97	321	(P)	27	13.20	43.1X
ALO	18.45	346	eP	28	50.00	0.8
	0.9s		1.05nm			3.0mb
ANMO	18.45	346	eP	28	50.50	1.3
	1.0s		1.00nm			2.9mb
YKA	46.36	351	eP	32	57.10	-2.1
	0.9s		0.70nm			3.7mb

S.D. = 1.3 on 8 of 15 obs.

APR 07, 1991 13h 09m 03.34±0.39s
 7.139 S ± 5.2km 80.719 W ± 7.1km
 DEPTH = 33.0km (normal)
 5.0mb (21 obs.) 4.6msz (4 obs.)
 OFF COAST OF NORTHERN PERU (108)
 Felt (III) at Chiclayo.

TUNG	6.12	22	eP	10	37.50	3.3X
PT10	6.14	143	eP	10	50.50	16.3X
			eS	11	54.50	
NNA	6.15	142	eP	10	32.00	-2.4
	0.7s		123.29nm			5.7mb
			eS	11	39.00	
VC1	6.86	20	P	10	45.00	0.3
GCP	7.23	17	eP	10	50.00	-0.1
QUR	7.26	18	eP	10	49.50	-0.7
YANA	7.30	17	eP	10	50.70	-0.2
CAYA	7.67	21	P	10	55.00	-1.1
COTA	7.79	18	P	10	57.70	-0.2
ZOBO	15.30	127	P	12	39.00	-0.3
	1.0s		41.25nm			4.6mb
	Z 21s		1.79um			
			S	16	20.00	
			LR	18	24.00	
LPB	15.47	128	P	12	43.00	1.7
			LR	17	50.00	
CNCB	15.73	129	iPc	12	50.80	6.1X
			i	16	29.00	
UPA	16.06	4	iPc	12	50.20	1.8
	1.0s		34.00nm			4.4mb
CCH	17.49	127	P	13	11.80	5.0X
SDV	18.83	32	eP	13	20.40	-2.8
ANT	19.21	150	e(P)	13	28.50	1.0
TOV	20.03	33	eP	13	34.70	-1.9
SIV	21.14	116	iPc	13	47.40	-0.7

TPP	25.86	48	eP	14	35.15	1.3
TCE	25.89	47	eP	14	35.64	1.4
TRN	26.11	48	eP	14	37.46	1.2
MCP	28.38	28	P	14	57.30	0.5
PORP	28.63	29	P	14	58.00	-1.1
LRS	28.74	28	P	15	00.70	0.6
SJG	28.92	30	P	15	02.00	0.2
LPR	29.22	30	P	15	04.30	-0.2
PPD	31.99	121	eP	15	28.50	-0.5
BAO	33.13	108	eP	15	39.00	-0.1
VAO	36.08	120	eP	16	03.60	-0.6
PDCR	41.30	101	iPc	16	47.60	-0.1
			e	16	54.10	
RSCP	42.75	354	P	17	00.00	0.6
CAI	43.26	92	iPc	17	03.10	-0.8
TUL	45.11	343	iPc	17	18.30	-0.1
	0.8s		17.70nm			5.0mb
Z 19s			0.23um			4.1msz
FVM	45.79	349	P	17	24.00	0.2
ALO	48.40	332	eP	17	45.00	0.4
	1.0s		10.00nm			4.8mb
ANMO	48.40	332	P	17	45.50	0.9
	1.1s		15.82nm			5.0mb
GOL	51.88	336	P	18	11.50	0.3
GAC	52.81	5	eP	18	16.00	-1.7
RSSD	55.20	340	P	18	37.50	1.9
	1.0s		10.85nm			4.8mb
8W06	56.19	335	P	18	42.00	-0.7
	1.0s		7.50nm			4.7mb
TNP	56.38	326	P	18	44.50	0.3
LRM	59.87	335	eP	19	06.00	-2.5
SCH	62.82	9	eP	19	27.00	-0.9
SES	63.04	339	eP	19	29.00	-0.5
NEW	63.78	334	P	19	34.50	0.1
FFC	64.16	346	ePc	19	36.00	-0.7
	0.7s		7.00nm			4.9mb
PNT	65.67	333	eP	19	47.00	0.4
	0.8s		10.00nm			5.0mb
EDM	66.18	339	eP	19	48.60	-1.2
YKA	74.15	344	eP	20	36.70	-1.4
	0.7s		2.90nm			4.4mb
LKO	76.65	78	Pc	20	53.34	0.0
LIC	76.67	82	Pc	20	53.72	0.3
	1.0s		14.00nm			4.9mb
TIC	76.74	81	Pc	20	54.16	0.3
	0.9s		16.00nm			5.0mb
KIC	76.97	82	Pc	20	55.66	0.6
	0.8s		27.00nm			5.3mb
AVE	80.14	55	iP	21	13.50	1.5
IFR	82.04	55	iPc	21	24.00	1.8
INK	83.77	343	eP	21	31.00	0.8
TOL	84.42	49	iP	21	30.50	-3.6X
	1.2s		62.50nm			5.7mb
MBC	86.24	351	ePc	21	43.40	1.0
	1.0s		31.00nm			5.5mb
FBA	86.95	337	P	21	47.50	1.5
EPF	88.33	46	eP	21	57.50	4.3X
GRR	88.60	41	eP	21	54.70	0.4
	0.8s		10.75nm			5.2mb
MFF	88.70	43	eP	21	55.50	0.7
	0.8s		5.35nm			4.9mb
FLN	88.92	41	eP	21	56.60	0.8
	0.8s		13.45nm			5.3mb
Z 21s			0.28um			4.7msz
LDF	89.12	41	eP	21	57.40	0.6
	0.8s		14.80nm			5.4mb
LPO	89.25	45	eP	21	58.40	0.9
RJF	89.59	44	eP	21	59.40	0.3
	Z 20s		0.20um			4.5msz
DAG	90.72	12	iPc	22	04.50	0.8
	0.9s		12.60nm			5.3mb
ASPA	134.39	227	ePKP	28	19.80	-0.8X
	1.6s		4.00nm			
WB2	136.24	231	ePKP	28	23.90	-0.3
	0.8s		6.60nm			
			iPP	28	32.70	
BJI	143.91	338	ePKP	28	34.00	-3.3
HHC	144.69	344	PKP	28	37.00	-1.8
BTO	145.33	346	PKP	28	39.20	-0.7
TIY	147.31	340	PKPc	28	45.00	1.8
	Z 20s		0.63um			5.4msz
GTA	147.87	359	PKP	28	46.80	2.7X
			sPKP	28	54.60	
SSE	148.57	322	ePKP	28	48.50	3.2X
NJ2	149.22	326	PKPc	28	50.00	3.7X
XAN	151.79	343	PKPd	28	57.30	7.1X

S.D. = 1.2 on 66 of 77 obs.

* APR 07, 1991 13h 26m 06.86±0.74s
 37.576 N ± 9.9km 68.722 E ± 9.9km
 DEPTH = 33.0km (normal)
 4.0mb (3 obs.)
 AFGHANISTAN-USSR BORDER REGION (717)

QUE	7.51	192	eP	27	56.70	-0.4
NDI	11.37	139	eP	28	49.00	-1.0
	0.7s		23.97nm			5.5mb X
			eS	30	57.00	
GKN	16.42	121	P	29	57.62	1.1
DMN	16.99	121	P	30	03.82	0.0
KKN	16.99	120	P	30	04.10	0.3
PKI	17.22	121	P	30	06.60	-0.2
GUN	17.33	119	P	30	06.98	-1.2
HYB	21.87	154	eP	30	59.00	0.3
GBA	25.11	160	Pc	31	31.20	1.1
	0.7s		3.50nm			4.1mb
HFS	41.09	321	eP	33	48.50	-0.3
	0.5s		0.80nm			3.7mb
YKA	80.24	2	eP	38	15.20	0.1
	0.9s		1.70nm			4.0mb

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

* APR 07, 1991 13h 44m 29.37±0.85s
 6.030 S ± 12.7km 77.173 W ± 19.2km
 DEPTH = 33.0km (normal)
 4.6mb (6 obs.)
 NORTHERN PERU (111)

TUNG	4.75	344	P	45	40.40	-0.5
			eS	46	34.00	
VC1	5.49	347	P	45	50.60	-1.0
NNA	5.93	177	iPc	46	03.00	5.7X
	0.9s		25.21nm			4.8mb
			eS	47	11.50	

07d 14h

eSg 07 15.30
SDI 1.43 137 P 07 02.40 1.7
BDI 1.91 313 P 07 07.00 -0.7
MME 1.95 318 P 07 08.90 0.5
S.D. = 1.1 on 13 of 13 obs.

APR 07, 1991 15h 27m 33.89±0.39s
41.003 N ± 3.9km 22.371 E ± 3.5km
DEPTH = 8.9 ± 3.5 km

YUGOSLAVIA (383)
MD 3.4 (ATH).

GRG 0.05 153 ePc 27 36.24 0.3

VAY 0.35 25 iPg 27 41.40 0.3

KNT 0.43 68 ePc 27 43.12 0.5

THE 0.58 129 ePc 27 44.76 -0.9

SOH 0.77 103 iPc 27 48.88 -0.1

FNA 0.79 254 ePc 27 48.16 -1.2

KZN 0.83 213 ePg 27 49.80 -0.3

LIT 0.91 174 ePd 27 50.12 -1.2

SRS 0.93 83 iPc 27 51.72 -0.1

OHR 1.19 276 iPg 27 55.50 -0.8

SKO 1.19 324 iPg 27 55.70 -0.6

OUR 1.40 118 ePd 27 59.68 0.2

PAIG 1.47 137 ePd 28 00.84 0.3

AGG 1.98 181 ePd 28 08.52 0.6

IGT 2.14 227 ePc 28 11.80 1.5

KEK 2.35 238 ePb 28 19.00 5.7X

PVY 2.40 312 ePn 28 18.40 4.3X

RDO 2.40 86 ePn 28 13.10 -0.8

IVA 2.62 316 ePn 28 22.00 4.7X

TTG 2.73 303 ePn 28 23.00 4.3X

ALN 2.79 91 ePd 28 19.00 -0.5

VLS 3.14 207 ePn 28 27.70 3.2X

PLE 3.21 317 ePn 28 32.80 7.2X

HCY 3.24 298 ePn 28 27.00 1.1

BRY 3.43 305 ePn 28 29.50 0.8

PRK 3.47 119 ePn 28 29.00 -0.1

BEO 4.07 340 e(P) 28 45.00 7.4X

VLI 4.30 174 ePn 28 40.60 -0.4

BZS 4.64 353 ePc 28 43.00 -2.8

CMP 4.69 24 ePc 29 07.00 20.5X

MLR 5.19 29 eP 28 55.00 1.3

VRI 5.81 32 eP 28 58.00 -4.2X

S.D. = 1.0 on 23 of 32 obs.

? APR 07, 1991 15h 33m 18.34±4.21s

15.297 N ± 13.5km 61.310 W ± 33.7km

DEPTH = 151.1 ± 39.3 km

LEEWARD ISLANDS (92)

BBL 0.28 324 ePd 33 39.46 -0.7

FDF 0.58 165 iPd 33 40.65 0.1

0.1s 1.50nm

S 33 57.60

MGG 0.62 359 iPd 33 40.74 0.1

S 33 56.60

DOG 0.79 338 eP 33 42.07 0.2

BIM 0.81 163 iPd 33 42.03 0.0

S 33 59.70

PAG 0.81 334 ePd 33 42.47 0.4

S 33 59.50

DEG 1.04 13 eP 33 43.75 -0.1

S 34 01.40

SEG 1.12 350 ePd 33 44.75 0.3

S 34 03.30

BPA 1.82 343 eP 33 51.46 -0.4

S.D. = 0.5 on 9 of 9 obs.

APR 07, 1991 16h 01m 19.05±0.74s

38.163 N ± 6.5km 22.242 E ± 8.4km

DEPTH = 33.0km (normol)

GREECE (364)

ML 2.9 (ATH).

AGG 0.86 5 eP 01 36.44 1.6

ATH 1.18 99 eP 01 39.90 0.6

VLS 1.30 271 eP 01 41.00 -0.1

VLI 1.54 159 eP 01 44.30 -0.3

PAIG 2.09 32 eP 01 51.80 -0.6

eS 02 17.46

KZN 2.17 350 eP 01 53.70 0.1

SOH 2.79 18 eP 02 02.12 -0.3

eS 02 35.80

KNT 3.04 9 eP 02 05.64 -0.3

eS 02 40.30

SRS 3.13 19 eP 02 06.28 -0.9

eS 02 42.90

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

APR 07, 1991 16h 12m 06.22±0.46s

44.483 N ± 4.4km 7.300 E ± 5.0km

DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)

ML 2.2 (GEN).

DOI 0.04 298 Pd 12 09.50 1.1

eSg 12 11.40

PZZ 0.14 279 P 12 10.02 0.3

S 12 12.48

STV 0.24 176 P 12 11.15 -0.2

S 12 14.02

ENR 0.27 161 P 12 11.64 -0.3

S 12 15.02

BHB 0.36 356 P 12 13.69 0.0

ROB 0.45 114 P 12 15.66 0.3

S 12 22.02

RRL 0.57 320 P 12 17.48 -0.5

RSP 0.67 357 P 12 18.61 -1.0

FIN 0.71 112 P 12 20.07 -0.1

S 12 28.89

IMI 0.71 143 P 12 20.05 -0.3

S 12 28.89

PCP 0.89 86 P 12 24.15 0.8

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

APR 07, 1991 17h 48m 13.37±0.35s

17.256 N ± 7.9km 26.291 W ± 7.1km

DEPTH = 10.0km (geophysicist)

4.8mb (13 obs.)

NORTH ATLANTIC OCEAN (402)

MBO 9.43 106 iP 50 27.90 -4.3X

iS 50 33.90

LKO 21.53 108 Pd 53 03.38 -1.6

0.8s 76.00nm 5.1mb

TIO 22.02 48 iPg 53 11.50 1.6

i 53 19.60

TIC 23.30 114 P 53 22.86 0.4

LIC 23.50 115 P 53 24.26 -0.1

0.6s 18.00nm 4.8mb

KIC 23.68 115 P 53 26.14 0.0

0.9s 23.50nm 4.8mb

PDCR 32.20 204 eP 54 43.10 -0.8

BAO 39.06 214 ePd 55 43.40 0.8

SIV 47.61 228 P 56 57.40 5.6X

SCH 48.62 330 eP 56 59.00 -0.1

HFS 51.56 24 ePKP 57 21.70 0.2

0.5s 1.70nm 4.2mb

ZOBO 53.01 233 Pc 57 34.00 0.4

CNCB 53.22 233 P 57 36.00 0.8

FRB 54.65 338 eP 57 43.00 -1.3

RSCP 55.34 302 eP 57 50.80 0.9

FVM 59.33 304 eP 58 17.30 -0.8

0.5s 8.40nm 5.1mb

DAG 59.66 2 iPc 58 20.10 0.4

1.0s 11.00nm 4.9mb

TUL 63.65 302 ePc 58 46.20 -1.1

0.8s 10.00nm 5.1mb

FFC 67.84 323 ePc 59 13.00 -0.8

0.9s 10.00nm 5.0mb

RSSD 69.48 311 e(P) 59 24.00 -0.4

ALO 72.41 302 eP 59 43.00 0.7

1.0s 5.75nm 4.6mb

SES 73.59 318 eP 59 49.00 0.3

BW06 73.62 310 eP 59 48.30 -0.9

1.0s 6.67nm 4.6mb

YKA 74.09 331 eP 59 49.20 -2.0

1.0s 3.80nm 4.4mb

MBC 74.10 346 eP 59 52.50 1.4

LRM 75.20 314 eP 59 59.00 0.7

NEW 77.87 317 ePc 00 12.40 -0.6

0.7s 6.80nm 4.8mb

TNP 80.28 307 eP 00 28.00 1.5

1.0s 7.00nm 4.6mb

INK 80.30 339 eP 00 26.00 0.3

S.D. = 1.0 on 27 of 29 obs.

* APR 07, 1991 18h 31m 52.48±2.26s

24.978 S ± 12.4km 179.528 E ± 13.9km

DEPTH = 534.8 ± 29.6 km

5.0mb (4 obs.)

SOUTH OF FIJI ISLANDS (171)

DZM 12.35 281 iPd 34 37.10 1.8

THZ 17.62 197 eP 35 27.40 -0.1

KHZ 18.08 194 eP 35 31.10 -0.8

HNR 24.21 306 eP 36 27.00 -1.6

SVO 24.50 307 P 36 30.00 -1.2

ASPA 41.45 262 iPd 38 54.90 1.0

0.4s 16.40nm 4.9mb

WB2 41.90 267 iPc 38 58.00 0.5

0.3s 52.50nm 5.5mb

iScP 43 45.20

iS 44 37.20

FORR 45.50 251 eP 39 25.50 0.0

0.3s 20.00nm 5.1mb

WARB 47.44 257 iPd 39 40.20 -0.2

0.5s 23.00nm 4.9mb

MBL 54.68 261 eP 40 33.00 -0.2

FRI 84.07 45 ePd 43 28.20 0.5

CMB 84.28 43 eP 43 29.40 0.6

WDC 84.55 40 e(P) 43 30.00 0.0

TNP 86.31 45 eP 43 38.60 -0.2

NB2 143.07 351 PKP 50 22.40 -3.8X

0.8s 1.60nm

HFS 143.51 348 ePKP 50 24.40 -2.5X

0.9s 3.80nm

S.D. = 1.0 on 14 of 16 obs.

? APR 07, 1991 18h 49m 31.50±1.46s

40.928 N ± 9.9km 20.740 E ± 12.3km

DEPTH = 10.0km (geophysicist)

GREECE-ALBANIA BORDER REGION (392)

ML 1.9 (SKO).

OHR 0.19 14 iPg 49 35.00 -0.7

iSg 49 39.30

FNA 0.50 106 ePc 49 39.82 -1.9

eS 49 45.86

GRG 1.26 88 ePd 49 55.82 0.9

IGT 1.43 193 ePd 49 57.58 0.1

eS 50 16.06

KNT 1.65 81 ePd 50 01.10 0.5

eS 50 23.70

S.D. = 1.6 on 5 of 5 obs.

APR 07, 1991 18h 55m 19.50±0.18s

3.100 S ± 3.5km 130.356 E ± 4.7km

DEPTH = 29.0km (4 depth phases)

5.6mb (55 obs.) 5.4msz (20 obs.)

CERAM (272)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 20S, 41C

Centroid Location:

Origin Time 18:55:22.1 0.6

Lat 3.01S 0.05 Lon 130.14E 0.04

Dep 15.0 BDY Half-duration 3.4

Moment Tensor: Scale 10¹⁷ Nm

Mrr=4.07 0.14 Mlt=-3.02 0.16

Mff=-1.04 0.22 Mrt=-4.22 0.49

Mrf=6.18 0.40 Mtf=2.59 0.13

Principal Axes:

	0.5s	120.10nm	6.4mb	RKG	33.23	200	iPd	02	00.10	3.8X	BJI	44.86	345	eP	03	32.00	-1.0		
		eS	59 38.60		0.7s	160.00nm			6.0mb			1.3s	230.00nm			5.9mb			
MTN	9.71	176	eP	57 37.80	-2.7	PCT	33.68	302	eP	02 04.00	3.6X	Z	24s	2.16um			5.0MszX		
DAV	11.19	335	eP	58 01.50	0.9	COO	34.08	146	e(P)	02 07.00	3.3X	N	12s	1.02um					
KNA	12.67	187	eP	58 16.70	-3.9X	KAGJ	34.10	1	eP	02 02.80	-1.0			eSP	03 50.00				
	0.3s	79.00nm	6.3mb	SSE	35.11	346	Pd	02 11.50	-1.0					eS	10 04.00				
		e	00 33.00		0.8s	20.00nm			5.1mb					eSS	10 26.00				
BKB2	13.57	277	iPd	58 36.50	3.9X	Z	20s	3.20um	5.1Msz			SNY	45.14	353	Pd	03 34.00	-1.2		
	0.7s	483.50nm	6.5mb		N	14s	1.40um						0.8s	100.00nm		5.8mb			
MNDI	13.60	103	eP	58 32.00	-1.2	E	14s	1.50um				Z	21s	7.10um		5.6Msz			
KKM	16.79	303	ePd	59 11.80	-2.6			SP	02 29.20			N	18s	3.90um					
	1.0s	103.90nm	4.9mb					PcP	04 45.00			E	16s	1.60um					
WB2	17.19	167	eP	59 13.00	-6.3X			S	07 42.00					S	10 07.00				
	0.4s	32.90nm	4.8mb	NST	35.24	303	eP	02 18.50	4.7X					SS	13 18.00				
		eS	02 16.00	KUMJ	35.44	1	eP	02 13.70	-1.6			LZH	46.19	330	P	03 46.00	2.2		
PMG	17.83	111	iPc	59 27.20	0.0	BFD	35.72	163	eP	02 18.00	0.4		1.5s	440.00nm		6.2mb			
	0.7s	109.59nm	5.1mb					i	02 26.00	27km		Z	24s	6.67um		5.5MszX			
TRT	18.22	255	ePc	59 38.20	6.1X	KHT	36.14	300	iPc	02 22.30	0.9		N	15s	2.93um				
	0.7s	379.70nm	5.7mb	CNB	36.58	153	eP	02 25.00	0.0					SP	03 57.50				
QIS	19.55	153	iPc	59 47.00	-1.1	NJ2	36.63	344	Pc	02 25.00	-0.3			PP	05 35.00				
		eS	03 13.00				1.4s	100.00nm	5.5mb					S	10 27.00				
MBL	20.67	209	eP	59 56.70	-3.1X	Z	22s	2.10um	4.9Msz					SS	10 46.00				
ASPA	20.73	171	eP	59 59.90	-0.6	N	11s	1.40um						SS	13 50.00				
	0.8s	985.60nm	6.3mb		E	14s	2.90um					HOOU	46.76	13	eP	03 47.90	-0.2		
		iS	03 48.40					SP	02 35.00			CN2	46.90	355	iPc	03 43.00	-6.1X		
BAG	21.66	334	eP	00 09.00	-1.1			PP	03 45.00				1.0s	100.00nm		5.8mb			
		eS	04 06.00		WHN	36.78	337	iPc	02 27.50	0.9		Z	17s	8.70um		5.8MszX			
RAB	21.80	94	eP	00 12.00	0.8		1.5s	300.00nm	5.9mb			N	16s	1.50um					
	0.8s	155.22nm	5.5mb		Z	20s	1.90um	4.9Msz				E	16s	0.50um					
		iS	04 12.00		E	16s	2.40um							eS	10 31.00				
GUA	21.95	41	eP	00 11.80	-1.0			PP	02 38.00					eScS	13 40.00				
	0.7s	279.45nm	5.8mb					iS	08 10.00			HHC	46.99	340	Pc	03 50.00	-0.1		
PJG	21.96	41	eP	00 11.80	-1.0			iS	02 30.00	1.8			1.1s	160.00nm		5.9mb			
CTA	22.93	139	iPd	00 23.70	1.3	BDT	36.96	304	eP	02 30.00	1.8		Z	29s	6.70um		5.4MszX		
	1.1s	112.66nm	5.3mb				0.7s	13.00nm	4.9mb			E	26s	8.60um					
		iS	04 35.00		TOO	37.01	160	eP	02 30.00	1.5				S	10 40.50				
WARB	23.23	188	iPc	00 26.40	1.1			i	02 40.00	34km		BTO	47.30	339	P	03 51.80	-0.7		
	0.5s	67.00nm	5.4mb		SHNJ	37.03	1	eP	02 26.70	-1.9		MDJ	47.51	359	Pd	03 53.20	-0.7		
MEKA	25.98	205	eP	00 50.00	-1.7			P	02 31.00	0.2			1.0s	50.00nm		5.5mb			
OLP	26.88	152	eP	01 04.00	4.2X	Z	20s	2.30um	5.0Msz			N	25s	4.60um		5.3MszX			
		i	01 31.50	129kmX		N	16s	4.50um				Z	18s	2.69um					
KGM	27.50	280	ePd	01 07.00	1.3	E	16s	2.40um				E	18s	1.20um					
		e	01 47.00	199kmX				PcP	04 50.00					PP	03 56.50				
FORR	27.68	184	eP	01 05.50	-1.6			S	08 17.00					eS	10 44.00				
COOL	28.97	197	eP	01 17.00	-1.8	SHK	37.49	3	eP	02 31.50	-1.0			KUSJ	47.78	14	eP	03 54.10	-2.0
	0.5s	25.00nm	5.2mb		YONJ	38.20	4	eP	02 37.40	-1.1		ASAJ	48.28	12	P	03 58.80	-1.2		
RMQ	29.19	145	eP	01 21.00	0.2	TSRJ	38.79	7	eP	02 41.80	-1.6		LSA	49.70	314	iP	04 12.50	0.7	
		i	02 43.00	474kmX			38.80	318	Pc	02 45.00	1.1		Z	22s	3.00um		5.3Msz		
KLM	29.35	282	eP	01 23.00	0.6				5.9mb					PP	04 25.00				
HKC	29.79	329	eP	01 28.00	1.8	Z	22s	4.10um	5.2Msz					S	11 18.50				
		eS	06 24.00					SP	02 52.00			GTA	50.78	329	P	04 19.30	-0.1		
QIZ	29.85	318	P	01 26.50	-0.3			S	08 40.00				1.6s	230.00nm		5.9mb			
	1.5s	170.00nm	5.6mb		DZM	39.77	121	iPc	02 51.20	-0.7		Z	23s	3.80um		5.3MszX			
	N 13s	4.30um			MTMJ	40.09	9	eP	02 51.90	-2.4		E	14s	2.50um					
	E 12s	3.90um			MAT	40.11	10	eP	02 51.00	-3.4X				PcP	05 38.00				
		S	06 17.50				0.8s	33.58nm	5.1mb					S	11 32.00				
		SS	07 49.00		Z	20s	6.74um	5.5Msz						ScS	14 09.00				
SVO	29.89	103	P	01 26.00	-1.2			eS	08 51.00			GUN	52.73	309	P	04 34.02	-0.6		
HNR	30.06	103	eP	01 28.00	-0.7			eS	03 09.40	-0.7		PKI	52.94	308	P	04 35.06	-1.1		
		eS	06 23.00		YAMJ	42.03	11	P	03 10.00	-0.8		KKN	53.14	308	P	04 36.62	-0.9		
OZH	30.13	338	eP	01 28.00	-1.1	XAN	42.10	333	iPd			DMN	53.20	308	P	04 37.22	-0.7		
	Z 28s	6.20um	5.1MszX			N	14s	3.50um				GKN	53.75	308	P	04 41.12	-0.7		
	E 16s	4.00um				E	13s	2.40um				KOD	54.30	285	eP	04 45.60	-0.7		
		S	06 22.00					PP	03 20.00			HYB	55.00	294	iPc	04 49.60	-1.5		
BAL	30.25	204	eP	01 28.00	-2.2			SP	03 23.00				1.2s	171.40nm		6.0mb			
IPM	30.28	284	ePc	01 31.00	0.3			PP	04 55.00			SNZO	55.02	140	eP	04 50.00	-0.8		
	1.1s	444.30nm	6.2mb					PcP	05 10.00					eS	12 52.00				
		e	02 19.10	241kmX				S	09 26.00					SS	16 28.00				
KLB	30.73	201	eP	01 33.00	-1.4	CD2	42.27	325	P	03 11.80	-0.4				Pc	04 49.90	-1.5		
	0.4s	57.00nm	5.7mb				1.5s	200.00nm	5.6mb			GBA	55.05	289	Pc		5.4mb		
GZH	30.87	328	P	01 35.00	-0.7	Z	18s	3.30um	5.3Msz				0.9s	39.30nm					
	Z 32s	7.20um	5.1MszX			E	15s	5.30um				IRK	59.41	342	eP	05 21.00	-0.7		
	N 13s	3.20um						PP	03 19.00				1.7s	116.00nm		5.7mb			
	E 13s	2.50um						PP	04 53.30			Z	18s	1.63um		5.2Msz			
		S	06 37.00					S	09 28.50					e	05 40.70		77kmX		
MUN	31.66	203	eP	01 40.00	-2.6			ePcP	06 03.70					e	06 33.00				
	0.7s	56.00nm	5.6mb		DL2	42.57	350	Pd	03 18.00	3.6X				ePP	07 40.00				
		e	06 33.00				1.2s	200.00nm	5.7mb					eS	13 30.00				
CMS	31.78	154	eP	01 43.50	-0.1	Z	26s	2.00um	4.9MszX					ePS	14 03.00				
PSI	31.94	280	ePc	01 46.80	1.5	N	18s	4.50um						eScS	15 10.00				
NWAO	32.12	201	eP	01 45.00	-1.6	E	16s	4.40um						e	18 22.00				
	0.5s	46.00nm	5.6mb					S	09 34.00					LR	33 05.00				
	Z 20s	7.30um	5.4Msz		OFUJ	43.25	13	eP	03 19.80	-0.2				eP	05 20.50		-3.1X		
		eS	07 12.00		TIY	43.88	339	Pd	03 24.60	-0.7		POO	59.61	293	eP				
BRS	32.29	141	iPc	01 47.50	-0.7			100.00nm	5.5mb					iS	13 28.00				
		i(pP)	01 54.00	23km	Z	28s	3.40um	5.1MszX				NDI	59.96	306	eP	05 24.00	-1.8		
ADE	32.64	167	eP	01 52.00	0.8	N	14s	1.60um					0.7s	27.40nm		5.5mb			
	0.9s	126.05nm	5.8mb					S	09 52.50										

WMO	60.37	326	P	05 28.50	0.1	BBTK	97.81	310	eP	09 04.00	10.2X	Z	19s	2.08um	6.0msz					
	2.0s	100.00nm		5.6mb		PTZ	97.97	255	iPc	08 55.00	0.1			i	15 22.00					
Z	24s	1.90um		5.2mszX		SOD	98.12	338	iP	08 56.20	1.7	ZOBO	153.47	137	eLR	09 38.00				
N	16s	3.00um				KAF	99.29	332	eP	09 00.00	0.2		1.0s	45.50nm	15 13.00	2.6X				
E	14s	1.70um				SLR	99.51	243	iPc	09 02.00	0.2	Z	25s	1.02um	5.5mszX					
		S	13 42.00			PRY	100.05	242	iPdiff	09 12.00	7.6X			LR	09 00.00					
DRV	63.81	176	eP	05 52.60	1.7	NUR	100.39	331	ePdiff	09 05.00	0.2	VAO	153.93	186	ePKP	15 20.50	10.2X			
		S	14 38.00			VR1	101.70	316	ePdiff	08 57.50	-13.6X			e	15 31.80					
YAK	64.94	360	iP	05 57.50	-0.8	MLR	102.30	316	ePdiff	09 16.50	2.6X			e	15 45.10					
		iPp	06 21.00	92kmX		YKA	104.11	26	ePdiff	09 20.70	-0.6			ePKp	15 25.00	14.3X				
		iPcP	06 30.00				0.8s	0.90nm		4.7mb				ePKP	15 14.80	3.2X				
		ePP	08 27.00			SPC	105.41	320	ePKP	13 34.70	-6.8X			SIV	157.92	150	PKP	15 17.20	1.6	
		iPPP	09 41.00			CER	105.72	234	ePdiff	09 17.00	-12.3X			PDCR	161.28	214	ePKP	15 19.10	-0.1	
		iS	14 35.00			NB2	106.47	334	Pdiff	09 32.40	0.4			e	16 05.30					
		ePS	15 08.00				0.9s	4.50nm		5.5mb				e	16 15.80					
		iScS	15 42.00			KSP	107.44	323	ePdiff	09 43.50	7.0X			CAI	164.27	233	ePKP	15 21.10	-1.1	
		eSSS	18 48.00				e	13 39.00						S.D. = 1.2	on 140 of 194 obs.					
		eSSS	21 57.00			PTJ	109.06	318	ePKP	13 45.00	-3.4X									
KSH	65.40	316	P	06 05.00	3.0X	CLL	109.26	324	e(PKP)	13 51.00	2.6X									
		S	14 46.00				e	14 15.00												
QUE	68.89	304	eP	06 23.35	-0.9	KBA	110.44	319	e(PKP)	13 39.00	-12.1X									
GAR	69.21	314	eP	06 26.10	0.1	GRF	110.89	323	ePKP	13 54.00	2.4X									
		eS	15 29.00			Z	21s	1.00um		5.4msz										
ADK	70.69	32	eP	06 34.70	0.1	BW06	113.89	44	PKP	14 02.00	4.0X									
	1.5s	250.00nm		6.1mb		BSF	114.31	322	ePKP	13 58.70	0.3									
MAIO	76.54	308	eP	07 10.00	0.8		0.8s	10.75nm												
	1.2s	36.11nm		5.3mb		HAU	114.51	322	ePKP	14 00.10	1.4									
		eS	16 59.00				0.8s	5.35nm												
SBA	77.13	173	iP	07 14.10	2.6	Z	21s	0.90um		5.3msz										
MAW	78.69	201	iPd	07 21.80	1.5	PGF	114.85	316	ePKP	14 00.90	1.3									
	1.0s	55.00nm		5.5mb			0.9s	18.00nm												
CRZF	79.83	224	eP	07 43.00	16.1X	LPG	115.27	320	ePKP	14 01.40	0.8									
		ePP	10 35.00				0.7s	4.40nm												
		eS	17 27.00			LPL	115.28	320	ePKP	14 01.30	0.8									
SDN	80.85	33	P	07 31.50	-0.5		0.7s	3.30nm												
PMO	81.24	105	eP	07 39.00	4.2X	SBF	115.44	318	ePKP	14 01.60	1.0									
	1.0s	45.00nm		5.4mb			0.9s	13.10nm												
RUV	81.73	105	eP	07 42.00	4.6X	LOR	116.35	322	ePKP	14 03.60	1.4									
	1.0s	40.00nm		5.4mb		Z	22s	1.20um		5.5msz										
ANM	82.02	23	eP	07 39.00	1.0	LBF	116.40	322	ePKP	14 03.80	1.5									
BEE	82.23	297	iP	07 39.40	-0.5	SMF	116.63	322	ePKP	14 03.60	0.9									
BBU	82.32	297	iP	07 39.90	-0.4		1.0s	12.00nm												
	0.6s	74.00nm		5.9mb		SSF	116.66	322	ePKP	14 04.40	1.7									
SVW	85.04	28	eP	07 55.60	2.1		0.9s	14.75nm												
TTA	85.35	26	eP	07 55.80	0.7	AVF	116.87	322	ePKP	14 04.60	1.5									
	0.9s	49.60nm		5.6mb			0.9s	8.20nm												
PDB	85.38	29	P	07 54.30	-0.9	RSSD	117.13	41	PKP	14 04.00	0.0									
KER	86.16	305	eP	08 03.00	3.2X	BGF	117.29	322	ePKP	14 05.80	1.8									
SPA	86.92	180	iPc	08 02.70	-0.2		0.8s	12.75nm												
	1.0s	21.00nm		5.3mb		TCF	117.80	322	ePKP	14 06.20	1.2									
Z	20s	2.34um		5.6msz			0.9s	11.45nm												
		i	08 13.20	33km		GOL	117.90	46	PKP	14 07.00	1.3									
IMA	87.15	23	eP	08 04.70	0.7	Z	20s	1.60um		5.6msz										
	1.2s	9.47nm		4.9mb		FRB	117.92	9	ePKP	14 05.00	0.4									
TAB	87.19	308	eP	08 07.00	2.2	LSF	118.24	322	ePKP	14 08.30	2.5X									
		i	08 10.00	9kmX			0.7s	4.95nm												
BRW	87.49	18	eP	08 06.60	1.3	CAF	118.51	321	ePKP	14 07.00	0.6									
PMR	88.19	28	eP	08 09.50	0.7		0.8s	8.05nm												
	1.6s	138.50nm		6.0mb		ALO	118.66	52	ePKP	14 07.50	0.3									
FBA	89.32	25	eP	08 16.30	2.1	Z	20s	1.42um		5.6msz										
TOA	89.66	28	eP	08 17.30	1.4	ANMO	118.66	52	PKP	14 09.20	2.0X									
NAI	93.48	269	iPd	08 38.00	3.3X	MFF	119.08	323	ePKP	14 09.30	1.9X									
OBN	94.68	325	eP	08 39.00	0.0		1.0s	20.00nm												
	1.9s	140.00nm		6.1mb		LPO	119.18	321	ePKP	14 10.00	2.4X									
Z	26s	2.00um		5.5mszX			0.9s	9.85nm												
N	28s	0.90um				LFF	119.34	321	ePKP	14 08.50	0.6									
E	24s	1.50um				IFR	128.64	311	iPKP	14 28.00	1.6									
		ePP	12 36.00			FVM	129.08	42	PKP	14 28.50	1.7									
		ePSP	13 22.00			KIC	135.15	276	PKP	14 31.64	-7.4X									
		iS	19 50.00			TIC	135.41	276	PKP	14 31.96	-7.6X									
		ePPS	22 50.00			LIC	135.43	276	PKP	14 31.52	-8.1X									
		iSS	26 16.00			Z	20s	0.74um		5.4msz										
		iSSS	29 52.00			LKO	135.78	280	PKP	14 29.42	-10.9X									
INK	95.13	22	eP	08 40.00	-0.9	JSC	137.25	40	PKP	14 44.40	2.0X									
NVL	96.16	197	(P)	08 48.00	2.3	MBO	145.86	291	iPKPd	15 00.90	2.8X									
Z	19s	4.20um		5.9msz		SLA	148.34	152	e(PKP)	15 07.00	4.9X									
		eSKS	19 16.00			UPA	149.72	78	iPKP	15 10.30	6.0X									
		eSKKS	19 38.00				1.2s	128.13nm												
		eS	20 05.00			Z	23s	1.59um		5.8mszX										
		ePS	21 28.00			ARE	150.95	133	e(PKP)	15 11.00	4.5X									
		ePP	22 14.00			ITB7	151.60	171	e(PKP)	15 16.50	9.6X									
		eSS	26 58.00			ITB	151.92	171	e(PKP)	15 15.50	8.1X									
		eSSS	30 42.00			ITB1	152.04	171	e(PKP)	15 16.00	8.5X									
PRNI	96.18	300	eP	08 49.00	2.5	CNCB	153.18	138	PKP	15 12.80	2.8X									
KEV	97.50	340	eP	08 52.00	0.4	LPB	153.30	137	PKP	15 14.50	4.5X									
MBC	97.76	13	ePc	08 52.50	-0.2		1.0s	80.00nm												

07d 19h

TRF	4.23	17	eP	21	10.84	-1.3
RND	4.45	25	eP	21	12.78	-2.3
MCK	4.72	23	eP	21	16.98	-1.8
GLB	4.97	62	eP	21	19.60	-2.7
BWN	5.04	18	eP	21	21.22	-1.9
PAX	5.08	43	eP	21	22.06	-1.8
CROM	5.11	71	eP	21	22.18	-2.1
TGL	5.26	71	eP	21	23.74	-2.6
NEA	5.48	18	eP	21	25.71	-3.5
BALM	5.54	69	eP	21	27.97	-2.3
WRH	5.55	23	eP	21	27.50	-2.8
HDA	5.74	27	eP	21	30.06	-2.8
CCB	5.77	23	eP	21	29.96	-3.3
MDM	5.97	20	ePd	21	33.03	-3.1

61 obs. associated

* APR 07, 1991 20h 18m 10.01 ± 1.30s
8.551 S ± 16.1km 159.319 E ± 19.6km
DEPTH = 78.4 ± 18.1 km
4.7mb (7 obs.)

SOLOMON ISLANDS (193)

SVO	0.77	141	iP	18	26.50	0.0
			iS	18	41.00	
VSG	0.80	151	iP	18	27.00	0.2
			iS	18	39.00	
HNR	1.07	145	iPc+	18	30.00	-0.1
			iS	18	45.00	
DZM	15.09	154	iPd	21	44.50	4.2X
CTA	17.07	226	iPd	22	11.00	5.9X
	1.2s	57.81nm			4.7mb	
RMO	20.46	208	eP	22	45.00	1.3
OIS	22.47	236	iPc	23	06.50	2.7X
WB2	26.67	242	iPc	23	44.20	0.5
	0.6s	15.40nm			4.7mb	
STK	28.47	213	eP	24	19.80	20.1X
	0.4s	1.50nm				
ASPA	28.60	235	eP	23	59.90	-1.2
	1.3s	8.00nm			4.2mb	
WARB	35.62	236	eP	25	00.30	-2.0
BJI	62.65	324	eP	28	28.00	-0.6
KMI	64.44	303	Pc	28	42.50	1.6
	1.0s	30.00nm			5.2mb	
		pP	29	03.00	79kmX	
LZH	68.44	314	Pd	29	08.50	2.4X
	1.3s	67.00nm			5.4mb	
		pP	29	35.00	105kmX	
YAK	74.02	346	iP	29	38.20	-0.5
GUN	79.59	300	P	30	11.14	0.2
PKI	79.90	300	Pd	30	12.60	0.0
KKN	80.07	300	P	30	13.40	0.0
DMN	80.17	300	P	30	14.40	0.4
GKN	80.67	300	P	30	16.46	0.0
HYB	83.82	289	eP	30	32.50	-0.2
GBA	84.19	285	Pd	30	34.90	0.4
	1.1s	9.80nm			4.7mb	
YKA	95.70	28	eP	31	26.90	-1.1
	0.7s	1.60nm			4.6mb	
HFS	122.44	340	ePKP	36	54.70	-2.7X
	0.5s	0.90nm				
TOL	145.44	337	iPKPc	37	42.00	1.1
	1.2s	62.50nm				
IFR	151.31	332	iPKPc	37	58.00	7.5X

S.D. = 0.9 on 19 of 26 obs.

? APR 07, 1991 20h 29m 23.35 ± 1.29s
39.703 N ± 7.8km 22.733 E ± 15.5km
DEPTH = 10.0km (geophysicist)
GREECE (364)

LIT	0.44	335	iPc	29	31.82	-0.5
			eS	29	37.46	
AGG	0.75	205	iPc	29	37.90	-0.1
			eS	29	47.30	
SOH	1.21	23	iPd	29	46.06	0.1
			eS	30	02.78	
FNA	1.50	317	ePc	29	46.78	-3.5X
			iS	30	05.02	
OHR	2.04	314	ePn	29	58.70	0.5

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

APR 07, 1991 20h 34m 27.19 ± 0.79s
39.807 N ± 5.8km 22.344 E ± 8.2km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.5 (ATH).

LIT	0.31	21	ePc	34	33.58	-0.1
			eS	34	38.58	
AGG	0.78	181	ePc	34	42.30	-0.2
			eS	34	53.70	
PAIG	1.03	83	ePc	34	47.14	0.4
			eS	35	01.94	
FNA	1.22	323	iPd	34	50.46	0.5
			eS	35	06.74	
SOH	1.27	37	ePd	34	51.02	0.2
			eS	35	07.98	
KNT	1.42	17	ePc	34	52.18	-0.8
			iS	35	12.66	
VAY	1.52	6	ePn	34	54.50	0.1
OHR	1.76	318	ePn	35	01.80	3.9X
SKO	2.27	343	ePn	35	09.00	3.7X

S.D. = 0.5 on 7 of 9 obs.

APR 07, 1991 20h 41m 38.64 ± 1.40s
9.255 S ± 9.5km 123.520 E ± 8.4km
DEPTH = 40.9 ± 15.9 km
4.8mb (2 obs.)

TIMOR (289)

KUPT	0.90	175	iPc	41	57.00	2.1
KNA	8.24	142	eP	43	37.10	-1.5
	0.2s	30.00nm			6.0mb X	
		eS	45	01.70		
MTN	8.28	116	eP	43	39.00	-0.2
TRT	10.88	277	ePc	44	14.00	-0.9
MBL	12.36	196	eP	44	34.00	-0.8
	0.3s	9.00nm			5.3mb X	
WB2	14.92	137	iPc	45	04.10	-4.5X
	0.2s	40.20nm			5.4mb X	
		eS	47	37.20		
WARB	17.10	170	eP	45	37.00	0.7
ASPA	17.43	147	eP	45	39.80	-0.8
	0.4s	22.80nm			4.7mb	
		iS	48	40.50		
OIS	19.16	128	iPd	46	01.80	0.1
		eS	49	17.00		
GYA	39.09	336	P	49	05.60	1.6
NJ2	41.31	354	eP	49	22.80	0.8
CD2	44.21	335	P	49	46.40	0.7
XAN	45.23	343	eP	49	53.10	-0.8
LSA	49.71	322	P	50	30.20	0.7
GUN	51.87	317	P	50	45.40	-0.5
PKI	51.98	316	P	50	45.80	-0.8
KKN	52.21	316	P	50	47.70	-0.5
DMN	52.21	316	P	50	47.70	-0.6
GKN	52.78	316	P	50	51.80	-0.6
GTA	53.19	337	Pc	50	55.60	0.4
	0.8s	10.00nm			4.9mb	
MDJ	53.90	5	eP	51	00.20	0.1
WMO	62.02	331	P	51	57.50	0.2
YAK	71.21	3	iP	52	54.00	-1.1
KIC	128.69	271	PKP	00	45.10	0.8
LIC	128.96	271	PKP	00	45.80	1.0
CNCB	151.72	156	PKP	01	33.80	8.4X
LPB	151.92	156	ePKP	01	33.00	7.5X
ZOBO	152.14	155	PKP	01	34.00	7.9X

S.D. = 1.0 on 24 of 28 obs.

* APR 07, 1991 21h 34m 20.25 ± 1.67s
31.815 S ± 19.4km 69.789 W ± 12.6km
DEPTH = 33.0km (normal)
SAN JUAN PROVINCE, ARGENTINA (137)

ZON	0.98	74	eP	34	37.80	0.0
			eS	34	52.80	
JACH	1.10	218	iPd	34	43.00	3.5X
			iS	35	02.00	
MDZ	1.33	144	iP	34	42.70	0.0
			iS	35	01.30	
ROCH	1.55	222	iPd	34	47.20	1.1
			iS	35	10.00	
SAN	1.79	204	eP	34	50.00	0.6
			iS	35	14.50	
PCH	1.90	199	eP	34	51.50	0.4
			iS	35	17.60	
TACH	2.07	208	iPc	34	53.30	-0.1
			iS	35	20.50	
LCCH	2.24	222	iPd	34	55.50	-0.2
			iS	35	24.50	
LNV	2.53	212	iPd	34	58.10	-1.8
			iS	35	29.00	

S.D. = 1.0 on 8 of 9 obs.

APR 07, 1991 21h 35m 27.06 ± 0.57s
41.048 N ± 5.4km 22.443 E ± 5.1km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.3 (SKO).

GRG	0.10	199	ePc	35	30.20	0.4
			eS	35	32.28	
VAY	0.29	19	iPg	35	31.40	-1.7
			iSg	35	34.70	
KNT	0.36	72	iPc	35	33.40	-1.1
			eS	35	37.72	
THE	0.57	136	ePd	35	37.76	-0.9
			eS	35	45.80	
SOH	0.73	108	ePc	35	40.56	-0.8
			eS	35	49.84	
FNA	0.85	252	ePd	35	43.36	-0.1
			eS	35	54.96	
SRS	0.87	85	ePc	35	42.76	-1.1
			eS	35	54.10	
LIT	0.95	178	ePc	35	44.72	-0.4
			eS	35	58.20	
MMB	1.11	60	iPg	35	47.00	-0.9
SKO	1.19	321	ePn	35	49.40	0.1
			eSn	36	03.20	
OHR	1.24	273	ePn	35	49.70	-0.5
PAIG	1.46	139	ePc	35	54.80	1.3
			eS	36	12.24	
VTS	1.65	20	eP	35	56.00	-0.2
RZN	1.83	69	iP	36	01.00	2.1
PGB	1.98	40	iP	36	03.00	2.0
PLD	2.00	57	iP	36	03.00	1.8
KDZ	2.32	74	eP	36	09.00	3.1X

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

APR 07, 1991 22h 33m 04.44 ± 0.69s
38.111 N ± 6.4km 22.094 E ± 5.2km
DEPTH = 10.0km (geophysicist)
3.7mb (2 obs.)

GREECE (364)
ML 3.3 (ATH).

AGG	0.93	11	ePc	33	22.14	0.0
			eS	33	35.98	
VLS	1.19	274	ePb	33	22.00	-4.6X
ATH	1.29	96	ePb	33	29.90	1.6
			eSb	33	51.00	
VLI	1.54	154	ePb	33	32.00	0.0
IGT	1.98	316	ePd	33	39.50	1.2
			eS	34	05.90	
LIT	2.01	9	ePd	33	39.22	0.4
			eS	34	04.74	
PAIG	2.19	34	ePd	33	40.98	-0.5
			eS	34	07.90	
KZN	2.21	354	ePn	33	42.50	0.8
KEK	2.40	312	ePg	33	46.50	2.1
THE	2.61	15	ePd	33	46.58	-0.7
FNA	2.73	348	ePd	33	49.70	0.6
GRG	2.85	5	ePc	33	50.62	-0.2
			eS	34	25.26	
SOH	2.88	19	ePd	33	51.06	-0.1
KNT	3.11	11	ePd	33	54.22	-0.2
			eS	34	31.34	
OHR	3.16	342	ePn	33	56.00	0.8
SRS	3.22	21	ePc	33	55.02	-1.0
			eS	34	33.38	
VAY	3.23	6	ePn	33	57.00	0.9
MMB	3.69	19	iP	34	02.00	-0.8
SKO	3.89	353	ePn	34	07.00	1.5
	9.0s	*****nm				
LCI	3.91	306	P	34	02.40	-3.4X
RZN	4.10	29	eP	34	07.00	-1.7
KDZ	4.36	35	eP	34	09.00	-3.3X
VTS	4.56	10	eP	34	16.00	0.9
BRT	4.68	308	P	34	16.50	-0.4
TDS	4.75	291	P	34	17.00	-0.8
ORI	4.81	296	P	34	18.20	-0.4

07d 22h

DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.5 (SKO).

GRG	0.11	196	ePd	54	00.22	0.5
			eS	54	02.10	
VAY	0.28	21	iPg	54	02.60	-0.1
			iSg	54	06.70	
KNT	0.36	73	ePd	54	04.62	0.3
			eS	54	09.38	
THE	0.58	137	ePc	54	08.14	-0.5
FNA	0.85	252	ePd	54	13.06	-0.3
			eS	54	24.90	

S.D. = 0.6 on 5 of 5 obs.

APR 07, 1991 23h 16m 27.08 ± 0.32s

6.048 S ± 5.9km 77.184 W ± 7.2km

DEPTH = 33.0km (normol)

5.0mb (46 obs.)

NORTHERN PERU (111)

VC1	5.51	347	P	17	43.70	-5.8X
OUR	5.99	347	eP	18	01.00	4.8X
GCP	6.00	346	eP	17	58.80	2.3
YANA	6.05	347	eP	17	57.80	0.6
CAYA	6.14	353	P	17	54.40	-4.0X
COTA	6.44	350	eP	18	04.40	1.7
ARE	11.76	152	e(P)	19	11.00	-4.9X
ZOBO	13.49	140	P	19	39.00	-0.2

Z 20s 1.08um

LPB	13.70	140	P	19	42.00	0.1
	1.0s	60.00nm			5.4mb	
	Z 20s	2.27um			4.6msz	

CNCB 13.98 141 eP 19 53.00 -0.7

CCH 15.60 137 P 20 16.00 9.4X

SDV 16.21 24 eP 20 12.40 -1.9

TOV 17.37 25 eP 20 28.70 -0.1

SIV 18.63 123 P 20 42.00 -2.4

PDCR 38.08 103 eP 23 43.70 -1.1

RSCP 42.17 350 P 24 17.40 -1.0

TUL 45.25 339 iPc 24 42.60 -0.7

FVM 45.51 345 P 24 43.50 -1.8

ALO 49.23 328 eP 25 14.70 0.0

ANMO 49.23 328 iPd 25 15.00 0.3

GOL 52.43 333 P 25 38.00 -1.1

CBM 53.36 8 P 25 45.40 0.0

RSSD 55.50 337 P 26 01.00 -0.5

BW06 56.80 332 eP 26 10.00 -0.9

0.9s 4.94nm 4.5mb

TNP 57.55 323 P 26 15.70 -0.5

GCC 59.88 319 eP 26 38.50 6.4X

LRM 60.46 332 eP 26 35.80 -0.5

BRK 60.54 320 eP 26 38.20 1.6

ORV 61.07 322 eP 26 41.00 0.8

SCH 61.26 7 eP 26 40.00 -1.3

WDC 62.32 322 eP 26 46.90 -1.7

SES 63.37 336 ePc 26 54.40 -1.1

FFC 63.99 344 iPc 26 58.00 -1.4

1.0s 18.00nm 5.1mb

NEW 64.43 332 P 27 01.70 -0.7

0.7s 24.00nm 5.4mb

PNT 66.35 331 eP 27 15.00 0.3

0.9s 23.00nm 5.3mb

EDM 66.47 337 ePc 27 14.60 -0.9

FRB 69.91 4 ePc 27 34.70 -1.8

LKO 72.99 78 P 27 55.92 -0.1

0.6s 11.00nm 5.0mb

LIC 73.04 82 P 27 56.32 0.0

TIC 73.11 81 P 27 56.66 -0.1

KIC 73.34 82 P 27 58.26 0.2

0.7s 18.50nm 5.2mb

YKA 74.10 343 eP 27 59.60 -1.9

0.6s 6.60nm 4.8mb

INK 83.81 342 eP 28 54.00 -0.1

SPA	1.0s	30.00nm	5.4mb
	83.99	180 iPc	28 57.40 2.1
	1.0s	15.00nm	5.1mb
EPF	85.04	46 eP	29 08.20 1.4
	0.9s	8.20nm	4.9mb
LPF	85.28	41 eP	29 02.40 0.5
	0.6s	9.00nm	5.2mb
GRR	85.49	41 eP	29 03.60 0.7
	0.6s	5.40nm	4.9mb
MFF	85.53	42 eP	29 04.20 1.1
	0.9s	8.20nm	4.9mb
MBC	85.71	351 ePc	29 04.50 1.0
	0.9s	28.00nm	5.5mb
LFF	85.75	44 eP	29 05.20 0.9
	0.6s	14.45nm	5.4mb
FLN	85.82	40 eP	29 05.30 0.7
	0.5s	2.90nm	4.8mb
LPO	86.00	44 eP	29 06.40 0.8
	0.6s	5.40nm	5.0mb
LDF	86.01	40 eP	29 06.40 0.9
	0.4s	2.30nm	4.8mb
RJF	86.37	44 eP	29 07.50 0.1
LSF	86.58	43 eP	29 08.50 0.1
	0.5s	1.45nm	4.5mb
CAF	86.67	44 eP	29 09.20 0.3
	0.6s	2.70nm	4.7mb
SLKM	86.98	332 P	29 10.20 0.1
TCF	87.05	43 eP	29 10.50 -0.2
	0.6s	2.25nm	4.6mb
MAF	87.27	43 eP	29 12.00 0.2
	0.6s	3.60nm	4.8mb
BGF	87.53	43 eP	29 13.20 0.2
	0.6s	5.40nm	5.0mb
AVF	87.92	43 eP	29 14.70 -0.1
	0.7s	6.05nm	5.0mb
SSF	88.07	42 eP	29 15.10 -0.5
	0.8s	4.05nm	4.8mb
RSO	88.17	331 P	29 16.20 0.2
SMF	88.22	43 eP	29 16.20 -0.1
	0.7s	4.40nm	4.9mb
LOR	88.35	42 eP	29 16.70 -0.2
	0.7s	6.05nm	5.0mb
DAG	88.96	11 eP	29 17.00 -2.2
	0.8s	10.45nm	5.2mb
DOU	89.34	40 P	29 21.60 0.1
LMR	89.53	46 eP	29 23.10 0.5
	0.7s	6.60nm	5.0mb
FRF	89.67	46 eP	29 23.70 0.5
	0.7s	11.00nm	5.3mb
SVW	89.70	332 P	29 22.30 -0.7
LPL	90.02	44 eP	29 26.00 0.9
	0.7s	5.50nm	4.9mb
LPG	90.03	44 eP	29 26.10 0.9
	0.8s	8.75nm	5.1mb
HAU	90.13	42 eP	29 25.30 0.0
	0.5s	2.20nm	4.7mb
SBF	90.28	46 eP	29 26.40 0.3
	0.7s	6.60nm	5.0mb
ENN	90.29	39 eP	29 26.50 0.6
	1.0s	22.00nm	5.4mb
BSF	90.40	42 eP	29 25.70 -1.0
	0.5s	1.45nm	4.5mb
CDF	90.81	42 eP	29 28.50 0.0
	0.7s	7.70nm	5.2mb
WTS	91.03	38 eP	29 30.50 1.3
	0.8s	16.00nm	5.4mb
HFS	95.64	30 ePKP	29 50.50 0.2
	0.5s	1.00nm	4.5mb
WB2	139.63	229 ePKP	35 54.10 -0.1
	0.7s	4.60nm	
SSE	149.70	328 PKPc	36 15.80 5.0X
	1.0s	17.00nm	
LZH	150.09	358 PKPc	36 19.50 8.0X
	1.5s	68.00nm	
GKN	152.17	36 PKP	36 15.82 1.0
KKN	152.71	36 PKP	36 16.34 0.7
DMN	152.74	36 PKP	36 16.72 1.0
PKI	152.95	36 PKP	36 16.64 0.5
GUN	152.96	35 PKP	36 16.94 0.8
HYB	153.73	62 ePKP	36 17.50 0.4

S.D. = 1.0 on 80 of 88 obs.

APR 08, 1991 00h 47m 09.87 ± 1.87s

3.203 S ± 6.0km 130.278 E ± 8.5km

DEPTH = 51.9 ± 17.4 km

4.9mb (13 obs.) 4.5msz (2 obs.)
CERAM (272)

AAI	2.13	257 iPd	47	45.00	1.3
MTN	9.62	175 iPc	49	27.00	-1.5
MKS	10.96	259 e(P)	49	53.00	6.2X
DAV	11.25	335 eP	49	38.00	-12.7X
KNA	12.56	187 iPc	50	04.60	-3.6X
	0.2s	15.00nm		5.6mb	
WB2	17.11	167 iPc	51	01.60	-5.5X
		eS	54	06.60	
TRT	18.12	255 ePd	51	17.80	-1.8
		eS	51	57.00	
QIS	19.50	153 iPc	51	35.10	-0.7
		e	51	42.00	
		i	55	19.00	
OCP	19.93	333 eP	51	42.00	1.7
MBL	20.54	209 eP	51	45.00	-1.6
	0.4s	12.00nm		4.6mb	
ASPA	20.64	171 eP	51	47.70	0.0
	0.4s	294.20nm		6.0mb X	
		eS	55	37.30	
CTA	22.90	138 iPd	52	11.80	1.5
	1.0s	29.00nm		4.7mb	
		iS	56	32.00	
OLP	26.82	151 eP	52	49.50	2.2
KGM	27.44	281 eP	52	55.00	1.9
FORR	27.58	184 eP	52	54.00	-0.1
	0.3s	16.00nm		5.1mb	
COOL	28.85	196 eP	53	05.00	-0.7
RMO	29.15	144 eP	53	08.00	-0.4
BAL	30.12	204 eP	53	16.50	-0.5
IPM	30.23	285 ePd	53	19.10	0.9
KLB	30.60	201 eP	53	20.70	-0.5
	0.4s	10.00nm		4.9mb	
MUN	31.53	203 eP	53	29.00	-0.4
PSI	31.88	280 ePd	53	34.60	1.9
NWAO	32.00	201 eP	53	33.00	-0.4
BRS	32.26	140 iPc	53	35.50	-0.4
ADE	32.56	167 eP	53	39.50	1.1
BFD	35.64	163 eP	54	06.00	1.2
GYA	37.30	324 P	54	20.60	1.6
KMI	38.82	318 eP	54	34.60	2.6
CD2	42.31	325 P	55	01.40	1.0
TIY	43.95	340 eP	55	12.70	-1.0
BJI	44.94	345 P	55	20.50	-1.0
SNY	45.23	353 P	55	22.60	-1.2
	0.6s	10.00nm		4.8mb	
LZH	46.24	330 eP	55	34.00	2.0
	2.0s	71.00nm		5.3mb	
	Z 22s	0.50um		4.4msz	
E	11s	0.23um			
CN2	46.99	355 eP	55	36.50	-1.2
	1.0s	10.00nm		4.7mb	
	Z 20s	0.60um		4.6msz	
		ePP	55	41.50	
		eS	02	24.00	
HHC	47.06	341 eP	55	38.80	0.4
MDJ	47.61	359 eP	55	40.50	-2.0
GTA	50.83	330 eP	56	07.00	-0.5
	1.2s	20.00nm		5.0mb	
		PP	56	13.00	
		SP	56	19.80	
GUN	52.74	309 P	56	21.64	-0.8
PKI	52.94	308 P	56</		

W06	114.01	44	(Pdiif02	11.00	17.3X
ARE	150.94	133	e(PKP)06	57.00	3.2X
CNCB	153.15	138	PKP	07 02.30	5.0X
		i	07 08.20		
LPB	153.27	138	PKP	07 08.00	10.7X
ZOBO	153.44	137	PKP	07 01.00	3.3X
VAO	153.82	186	ePKP	07 08.20	10.7X
S.D.	= 1.2	on	51 of 62 obs.		
* APR 08, 1991	01h 01m 58.20±2.28s				
33.123 S ± 6.2km	71.906 W ± 18.3km				
DEPTH = ± 10.0km	(geophysicist)				
NEAR COAST OF CENTRAL CHILE	(135)				
IHA	0.24	67	iPc	02 03.80	0.4
		iS	02 09.40		
LCCB	0.45	141	iPc	02 08.00	0.6
		iS	02 17.00		
ROCH	0.77	79	iP	02 12.50	-0.8
		iS	02 25.40		
LNv	0.93	154	iPc	02 15.50	-0.4
		iS	02 30.00		
TACH	0.97	123	iPd	02 16.50	-0.1
		iS	02 31.50		
PEL	1.02	91	iPd	02 17.60	0.0
		iS	02 34.00		
SAN	1.09	108	iPd	02 18.50	-0.3
		iS	02 36.40		
JACH	1.19	69	iPd	02 19.00	-1.5
		i	02 32.50		
		iS	02 36.50		
PCH	1.27	113	iP	02 21.50	-0.3
		iS	02 42.00		
RTBS	2.54	56	ePd	02 40.20	0.2
MDZ	2.58	86	iP	02 45.10	4.3X
		iS	03 22.50		
ZON	3.15	61	eP	02 50.80	1.9
RTLL	3.42	59	ePd	02 53.80	1.1
CFA	3.45	65	eP	02 54.00	0.9
		eS	03 46.90		
RTRS	3.61	36	e(P)	02 53.50	-1.8
S.D.	= 1.1	on	14 of 15 obs.		
APR 08, 1991	01h 25m 26.94±0.23s				
4.088 N ± 3.7km	127.929 E ± 5.3km				
DEPTH = 26.3km	(3 depth phases)				
5.6mb (44 obs.)	4.1msz (2 obs.)				
TALAUD ISLANDS	(263)				
CENTROID, MOMENT TENSOR	(HRV)				
Data Used: GDSN					
L.P.B.: 11S, 15C					
Centroid Location:					
Origin Time	01:25:27.5 3.2				
Lat 3.65N 0.27 Lon 127.79E 0.15					
Dep 98.910.2 Half-duration 3.3					
Moment Tensor: Scale 10**16 Nm					
Mrr= 5.02 0.66 Mtt= 0.67 0.86					
Mtf=-5.69 1.29 Mrt= 1.41 1.05					
Mrf=-1.12 1.22 Mtf=-0.24 0.75					
Principal Axes:					
T Vol= 5.55 Plg=73 Azm= 20					
N 0.25 16 180					
P -5.80 6 272					
Best Double Couple:Mo=5.7*10**16					
NP1:Strike= 19 Dip=42 Slip= 115					
NP2: 167 53 69					
DAV	3.79	322	eP	26 29.00	4.0X
MNI	4.05	230	iPd	26 27.50	-1.3
		eS	27 06.00		
AAI	7.73	178	eP	27 28.10	7.5X
OCP	12.47	328	eP	28 36.00	10.4X
MKS	12.52	223	iPd	28 27.70	1.3
BAG	14.21	330	eP	28 52.50	3.6X
KUPT	14.79	197	eP	28 55.50	-0.7
TRT	19.24	233	ePd	29 48.00	-4.2X
		eS	30 33.00		
KNA	19.73	178	eP	29 57.40	-0.4
QZH	22.60	337	Pd	30 28.00	1.1
	1.0s	400.00nm		5.9mb	
		S	34 28.00		
QIZ	23.08	311	P	30 32.00	0.4
	0.6s	40.00nm		5.1mb	
N 13s		0.41um			
		S	34 30.00		
GZH	23.57	325	Pc	30 36.90	0.5
	1.0s	60.00nm		5.1mb	
		S	34 30.00		
		S	34 30.00		
		S	34 30.00	</	

08d 01h

LPB 159.99 129 PKP 45 34.00 7.8X
 ZOBO 160.12 129 PKP 45 27.50 0.9
 SIV 165.23 144 PKP 45 31.20 0.4
 S.D. = 1.1 on 105 of 116 obs.

? APR 08, 1991 02h 04m 27.09± 3.68s
 18.964 N ±20.3km 65.014 W ±47.7km
 DEPTH = 33.0km (normal)
 PUERTO RICO REGION (90)

LPR 1.04 231 P 04 45.50 0.0
 S 04 58.50
 CPD 1.26 223 P 04 48.60 0.1
 S 05 03.60
 SJG 1.37 232 P 04 50.00 -0.1
 PORP 1.79 240 P 04 55.60 -0.5
 S 05 15.60
 LRS 1.86 249 P 04 51.50 -5.7X
 MGP 2.19 245 P 05 02.30 0.5
 CBN 21.99 333 eP 09 20.00 0.0
 S.D. = 0.4 on 6 of 7 obs.

APR 08, 1991 02h 30m 41.19± 1.30s
 3.048 S ± 5.3km 130.398 E ± 8.8km
 DEPTH = 20.1 ± 9.2 km
 4.9mb (10 obs.) 4.3msz (4 obs.)
 CERAM (272)

AAI 2.29 254 ePd 31 20.10 1.6
 eS 31 54.10
 MTN 9.76 176 iPd 33 01.90 -1.7
 MKS 11.11 258 e(P) 33 26.00 3.9X
 DAV 11.16 334 eP 33 20.00 -2.8
 KNA 12.72 187 eP 33 39.70 -4.2X
 eS 35 59.00
 WB2 17.23 167 eP 34 36.60 -5.8X
 iS 37 43.10
 e 37 57.70

TRT 18.28 255 ePc 34 52.50 -2.9
 OIS 19.58 153 eP 35 09.00 -2.2
 0.6s 37.00nm 4.8mb
 e 38 41.00

OCP 19.85 333 eP 35 19.00 5.0X
 ASPA 20.78 171 eP 35 22.70 -1.0
 0.9s 233.40nm 5.6mb
 Z 18s 1.30um 4.3msz

BAG 21.63 334 eP 35 33.00 0.4
 eS 39 34.00
 CTA 22.94 139 iPc 35 46.50 1.2
 1.0s 29.00nm 4.8mb

WARB 23.28 189 iPd 35 48.70 0.0
 OLP 26.90 152 eP 36 36.00 13.1X
 FORR 27.74 184 eP 36 29.00 -1.4
 RMO 29.21 145 eP 36 50.00 6.2X
 IPM 30.31 284 ePd 36 54.50 0.7
 STK 30.55 161 iPc 37 15.10 19.4X
 0.7s 5.80nm

PSI 31.97 280 ePc 37 09.80 1.4
 ADE 32.68 167 eP 37 15.00 0.6
 SSE 35.07 346 eP 37 34.50 -0.5
 Z 20s 0.50um 4.3msz

BFD 35.75 163 eP 37 41.00 0.2
 NJ2 36.59 343 Pc 37 48.50 0.7
 WHN 36.75 337 Pc 37 50.00 0.8
 GYA 37.24 323 P 37 54.00 0.4
 DZM 39.76 121 iPc 38 18.30 3.6X
 TIA 40.98 344 eP 38 23.90 -0.5
 XAN 42.08 333 iPc 38 32.50 -1.0
 TIY 43.85 339 eP 38 48.00 0.1

Z 14s 0.50um 4.6msz
 S 45 18.00
 BJI 44.82 344 eP 38 55.00 -0.6
 1.5s 58.00nm 5.3mb

SNY 45.09 353 Pc 38 57.30 -0.5
 0.8s 30.00nm 5.3mb
 Z 24s 0.70um 4.5msz

CN2 46.85 355 Pd 39 11.20 -0.4
 1.0s 10.00nm 4.8mb
 Z 20s 0.60um 4.6msz

ePP 39 21.00
 eS 45 58.00
 HHC 46.96 340 P 39 11.00 -1.7
 BTO 47.27 339 eP 39 14.90 -0.3
 MDJ 47.46 359 eP 39 16.00 -0.4

LSA 49.70 314 eP 39 34.60 0.0
 GTA 50.76 329 P 39 42.60 0.5
 1.0s 10.00nm 4.7mb
 Z 20s 0.30um 4.3msz

PP 39 46.00
 SP 39 53.20
 GUN 52.73 309 P 39 56.68 -0.9
 PKI 52.94 308 P 39 58.28 -0.8
 KKN 53.14 308 P 39 59.68 -0.8
 DMN 53.20 308 P 39 59.62 -1.3
 GKN 53.75 308 P 40 03.70 -1.1
 KOD 54.33 285 eP 40 09.00 -0.4
 HYB 55.02 294 eP 40 12.50 -1.6
 GBA 55.08 289 Pc 40 12.80 -1.7
 1.0s 6.00nm 4.6mb

WMO 60.35 326 P 40 51.10 -0.2
 YAK 64.89 360 eP 41 21.00 0.0
 OUE 68.90 304 eP 41 47.50 0.2
 GAR 69.21 314 eP 41 48.40 -0.6
 INK 95.07 22 eP 44 03.00 -0.6
 MBC 97.70 13 eP 44 16.00 0.5
 1.0s 5.00nm 5.0mb

YKA 104.05 26 ePd 44 43.50 -0.6
 0.9s 0.40nm 4.3mb
 ARE 150.95 133 ePKP 50 37.00 7.5X
 CNCB 153.19 138 PKP 50 38.40 5.3X
 LNP 153.31 137 PKP 50 38.00 4.9X
 ZOBO 153.47 137 ePKP 50 34.00 0.5

i 50 43.00
 SIV 157.94 149 PKP 50 40.80 2.1X
 i 51 13.60
 S.D. = 1.0 on 45 of 57 obs.

% APR 08, 1991 02h 56m 04.85± 0.81s
 39.116 N ± 7.6km 27.985 E ± 8.1km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

MD 2.9 (ISK).

DST 0.70 45 ePg 56 18.80 0.1
 eSg 56 30.00

IZM 0.91 218 iPg 56 22.50 0.2
 iSg 56 35.50

EDC 1.23 356 ePn 56 28.00 0.2
 BNT 1.24 358 ePn 56 28.00 0.1

EZN 1.47 299 ePn 56 31.00 -0.3
 IZI 1.67 43 ePn 56 34.00 -0.4
 YLV 1.80 36 ePn 56 36.30 0.1

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

% APR 08, 1991 02h 57m 21.37± 0.74s
 39.155 N ± 7.3km 27.918 E ± 7.5km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

MD 2.9 (ISK).

DST 0.71 50 ePg 57 34.80 -0.6
 eSg 57 46.00

IZM 0.91 214 iPg 57 38.80 -0.1
 iSg 57 52.50

EDC 1.19 358 ePn 57 43.00 -0.6
 BNT 1.20 0 ePn 57 44.00 0.3

EZN 1.40 299 ePn 57 47.00 0.1
 IZI 1.68 45 ePn 57 51.00 0.0
 YLV 1.80 38 ePn 57 53.30 0.6

HRT 2.14 38 ePn 57 58.00 0.4
 S.D. = 0.5 on 8 of 8 obs.

* APR 08, 1991 03h 05m 41.20± 2.86s
 33.136 S ± 7.5km 72.010 W ± 22.6km
 DEPTH = 10.0km (geophysicist)
 OFF COAST OF CENTRAL CHILE (134)

IHA 0.33 71 iPc 05 48.40 0.4
 iS 05 54.70

LCCH 0.50 133 iPd 05 52.00 0.7
 ROCH 0.86 79 iPd 05 56.80 -1.0

iS 06 20.00
 LNV 0.96 149 iPc 05 59.10 -0.3
 iS 06 14.00

TACH 1.03 120 iP 06 00.50 -0.3
 iS 06 16.20

SAN 1.17 106 iPd 06 02.80 -0.3
 iS 06 21.10

JACH 1.28 70 iPd 06 03.00 -1.9
 iS 06 21.00

PCH 1.34 112 iPd 06 05.50 -0.5

iS 06 26.40
 RTBS 2.62 56 ePc 06 24.30 0.1
 MDZ 2.67 85 iP 06 29.30 4.2X
 iS 07 07.60
 ZON 3.24 62 eP 06 34.80 1.7
 RTLL 3.50 60 e(P) 06 37.50 0.7
 CFA 3.54 65 ePc 06 39.60 2.3
 RTRS 3.67 37 e(P) 06 37.50 -1.7
 S.D. = 1.3 on 13 of 14 obs.

& APR 08, 1991 04h 37m 54.30s
 47.864 N 128.287 W
 DEPTH = 10.0km (geophysicist)
 3.9mb (3 obs.)
 OFF COAST OF WASHINGTON (26)
 <PGC>.

ETB 1.91 37 P 38 27.24 0.1
 EDB 2.15 21 P 38 30.09 -0.6
 OZB 2.16 58 Pc 38 29.98 -0.9
 GDR 2.43 37 P 38 34.14 -0.5
 BTB 2.44 48 Pc 38 33.94 -1.0
 S 39 03.14

OSP 2.51 79 P 38 35.37 -0.5
 OFK 2.64 87 P 38 37.05 -0.7

MGB 2.65 63 P 38 36.69 -1.3
 OTR 2.66 84 P 38 37.34 -0.6
 S 39 10.28

PFB 2.67 73 P 38 36.57 -1.5
 ALB 2.69 57 P 38 37.51 -0.9
 S 39 09.58

OOW 2.77 91 P 38 38.71 -0.8
 OBC 2.83 85 P 38 39.83 -0.7
 S 39 13.85

PHC 2.90 11 P 38 40.03 -1.3
 OBH 3.04 99 P 38 42.74 -0.6
 S 39 18.55

OSD 3.09 89 P 38 43.22 -1.0
 S 39 19.42

STW 3.11 83 P 38 43.99 -0.3
 NAB 3.15 63 Pc 38 44.33 -0.6

PGC 3.33 75 P 38 46.00 -1.4
 0.1s 12.50nm

VGZ 3.37 79 Pc 38 46.40 -1.6
 S 39 25.60

SMW 3.39 97 P 38 47.77 -0.6
 SHB 3.40 58 Pc 38 48.27 -0.2

SNB 3.53 73 P 38 49.97 -0.4
 HDW 3.54 92 P 38 49.91 -0.5
 S 39 31.24

BLN 3.58 86 P 38 50.59 -0.4
 S 39 33.94

CPW 3.61 102 P 38 50.84 -0.6
 S 39 32.08

BIB 3.65 63 Pc 38 51.56 -0.3
 BMW 3.72 110 P 38 52.36 -0.7
 S 39 35.71

GMW 3.73 93 P 38 52.55 -0.6
 MCW 3.73 75 P 38 52.41 -0.8

WPB 3.81 60 Pc 38 53.90 -0.3
 PGW 3.83 89 P 38 54.27 -0.3

OHW 3.88 81 P 38 54.42 -0.9
 KMOR 3.98 122 P 38 56.52 -0.2

HNB 4.04 67 Pc 38 56.81 -0.7
 WHB 4.18 55 P 38 59.45 -0.1

LMW 4.25 104 P 39 00.82 0.1
 VDB 4.28 72 Pc 38 59.98 -0.9

JCW 4.28 83 P 39 00.37 -0.6
 S 39 50.72

BBB 4.33 1 P 39 01.10 -0.5
 MBW 4.36 75 P 39 01.79 -0.4

RVC 4.39 100 P 39 02.81 0.3
 HTW 4.39 88 P 39 02.05 -0.5

GSM 4.45 96 P 39 03.23 -0.2
 LON 4.55 102 P 39 05.38 0.6

MTMW 4.55 112 P 39 05.92 1.1
 RPW 4.57 80 P 39 04.45 -0.7

FMW 4.59 99 P 39 05.12 -0.4
 WPW 4.73 102 P 39 08.65 1.1

VLMW 4.89 116 P 39 10.71 1.1
 ASR 4.89 108 P 39 11.16 1.5

VLL 5.14 115 P 39 14.53 1.3
 NAC 5.20 100 P 39 15.03 1.0

TBM 5.26 95 P 39 15.34 0.5
 EBG 5.33 97 P 39 16.36 0.5

VFP 5.35 116 P 39 16.97 0.7
 ETW 5.37 90 P 39 15.97 -0.6

CBSW	5.55	88 P	39 18.18	-0.9
WTV	5.62	89 P	39 18.72	-1.3
HSO	5.66	138 P	39 21.51	0.9
VTG	5.71	96 P	39 21.18	0.1
DHW2	5.73	86 P	39 20.82	-0.7
EPH	5.90	92 P	39 22.39	-1.4
PNT	5.93	73 P	39 23.00	-1.3
0.7s 3.60nm 4.2mb X				
SAW	5.99	88 P	39 23.63	-1.5
RC1	6.08	95 P	39 25.30	-1.1
RSW	6.12	101 P	39 27.31	0.4
VIPM	6.29	119 P	39 29.53	0.0
DPW	6.79	86 eP	39 34.10	-2.3
NEW	7.49	83 eP	39 44.10	-2.2
FHC	7.70	155 eP	39 51.50	2.3
LBFM	7.95	143 eP	39 56.20	3.3
WDC	8.37	148 eP	40 01.70	3.3
MIN	8.92	145 eP	40 09.40	3.2
ORV	9.65	147 eP	40 19.00	2.9
CMB	11.40	147 e(P)	40 41.70	1.6
KVN	11.50	136 eP	40 45.80	4.2
SES	11.58	71 eP	40 41.00	-1.6
BONR	12.30	140 eP	40 55.70	3.1
FRI	12.57	147 e(P)	40 59.10	3.3
TNP	12.69	136 eP	41 00.30	2.6
BW06	14.12	104 P	41 17.40	0.8
ISA	14.20	146 eP	41 21.00	3.4
MSU	14.99	123 eP	41 36.50	8.5
GSC	15.19	142 eP	41 34.00	3.5
SBB	15.31	145 eP	41 36.00	3.9
MWC	15.64	147 eP	41 44.00	7.6
RVR	16.10	145 eP	41 45.00	2.8
TPC	16.53	142 eP	41 50.00	2.3
YKA	16.55	23 eP	41 56.90	9.2
0.7s 2.60nm 3.5mb				
PLM	16.86	145 eP	41 54.00	1.9
FFC	17.76	57 eP	42 00.00	-2.9
0.7s 15.00nm 4.2mb X				
FFC	17.76	57 eP	42 06.00	3.1
0.8s 33.00nm 4.5mb				
INK	20.67	354 eP	42 37.00	0.6
ANMO	20.76	120 eP	42 39.50	1.6
ALO	20.76	120 eP	42 39.70	1.8
1.0s 4.75nm 3.8mb				
96 obs. associated				

& APR 08, 1991 04h 48m 08.10s
37.498 N 118.822 W
DEPTH = 14.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 3.0 (BRK).

BONR	0.62	42 iP	48 19.40	-0.9
FRI	0.87	235 iPc	48 23.40	-1.0
iS 48 36.80				
CMB	1.35	294 ePc	48 32.20	-0.3
iS 48 50.00				
TNP	1.40	65 iPc	48 33.30	0.0
KVN	1.65	20 eP	48 36.50	-0.4
PKEM	1.77	216 eP	48 39.40	1.0
LLA	1.91	243 ePc	48 41.40	0.9
PR1	2.00	228 iPd	48 43.20	1.2
ARN	2.16	267 eP	48 45.00	0.8
SAO	2.22	252 iPd	48 46.00	1.0
MHC	2.25	267 iPd	48 47.00	1.4
PRS	2.35	241 ePd	48 47.70	0.8
ORV	2.94	315 ePc	49 00.00	4.8
13 obs. associated				

& APR 08, 1991 06h 17m 50.60s
40.417 N 124.957 W
DEPTH = 13.0km
NEAR COAST OF NORTHERN CALIF. (35)
<BRK>. ML 3.2 (BRK).

FHC	0.83	62 iPc	18 06.00	-0.5
iS 18 16.50				
WDC	1.85	84 eP	18 20.50	-1.8
LBFM	2.50	67 eP	18 31.00	-0.8
MIN	2.56	91 eP	18 30.30	-2.3
4 obs. associated				

% APR 08, 1991 06h 56m 16.97± 0.42s
38.357 N ± 3.7km 28.475 E ± 4.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.3 (ISK).

KHL	0.82	92 iPg	56 32.50	-0.5
I2M	0.95	273 iPg	56 34.10	-1.1
eSg 56 47.10				
YER	1.23	187 iPn	56 40.30	0.4
DST	1.25	5 iPn	56 40.00	-0.3
ALT	1.46	61 iPn	56 43.60	0.2
KCT	1.89	357 iPn	56 50.00	0.4
ELL	1.97	144 ePn	56 51.00	0.2
BNT	2.04	348 ePn	56 52.50	0.7
EDC	2.04	347 ePn	56 52.00	0.2
I2I	2.12	21 ePn	56 53.20	0.2
EZN	2.23	312 ePn	56 55.00	0.6
YLV	2.31	17 ePn	56 56.00	0.2
GPA	2.40	36 ePn	56 57.00	0.1
EYL	2.56	30 ePn	56 59.00	-0.3
HRT	2.63	20 ePn	57 00.00	-0.2
ISK	2.74	9 ePn	57 01.00	-0.8

S.D. = 0.5 on 16 of 16 obs.

* APR 08, 1991 07h 18m 13.18± 1.00s
19.472 N ± 11.5km 64.886 W ± 6.7km
DEPTH = 10.0km (geophysicist)
3.6mb (1 obs.)
VIRGIN ISLANDS (91)

LPR	1.49	219 P	18 39.40	-0.6
S 18 57.90				
CPD	1.73	215 P	18 30.20	-13.3X
SJG	1.81	222 P	18 44.44	-0.2
S 19 07.40				
LRS	2.19	238 P	18 50.80	0.6
MGP	2.55	235 P	18 55.30	0.1
SEG	4.44	133 eP	19 21.00	-1.0
PAG	4.59	138 eP	19 25.00	0.7
S 20 15.00				
DEG	4.81	130 eP	19 23.00	-4.5X
BBL	5.10	140 eP	19 32.00	0.5
YKA	54.78	334 eP	27 45.10	-0.1
0.8s 0.50nm 3.6mb				
S.D. = 0.7 on 8 of 10 obs.				

* APR 08, 1991 08h 11m 30.43± 1.95s
39.148 N ± 19.1km 20.748 E ± 9.6km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)

KEK	0.93	308 eP	11 47.90	-0.2
AGG	1.24	95 ePc	11 54.12	0.7
K2N	1.40	34 eP	12 01.50	5.4X
LIT	1.65	54 ePc	11 58.16	-1.4
eS 12 10.28				
FNA	1.70	16 ePc	12 04.48	4.1X
eS 12 23.04				
OHR	1.96	1 i(Pn)	12 04.60	0.5
GRG	2.21	35 ePd	12 08.48	0.8
eS 12 29.64				
PAIG	2.40	70 iPc	12 09.96	-0.4
eS 12 32.40				
SOH	2.61	49 ePd	12 13.40	0.0
S.D. = 0.9 on 7 of 9 obs.				

APR 08, 1991 08h 50m 45.39± 0.96s
18.506 N ± 8.5km 62.357 W ± 8.1km
DEPTH = 48.0 ± 9.4 km
4.4mb (7 obs.)
LEEWARD ISLANDS (92)

BPA	1.53	162 eP	51 10.53	-0.2
S 51 31.00				
SEG	2.24	159 eP	51 20.41	-0.4
DEG	2.51	150 eP	51 23.92	-0.7
PAG	2.55	165 eP	51 25.91	0.7
S 51 57.40				
DOG	2.56	164 eP	51 26.00	0.6
BBL	3.08	164 eP	51 33.50	0.7
LPR	3.34	267 P	51 36.00	-0.5
CPD	3.41	263 P	51 37.80	0.3
SJG	3.63	264 P	51 40.50	0.0
LRS	4.27	268 P	51 48.80	-0.8
MGP	4.52	264 P	51 53.40	0.3
HBF	21.63	315 P	55 32.50	-0.9
LHS	22.87	318 P	55 46.00	0.3
JSC	23.03	317 P	55 47.70	0.4
GBTN	25.80	316 P	56 13.70	-0.1
FVM	31.24	314 P	57 03.30	0.6
TUL	34.20	307 ePc	57 27.60	-0.9
0.8s 5.90nm 4.6mb				

SIV	34.30	178 P	57 28.40	-1.1
LPB	35.27	190 P	57 37.00	-1.3
CNCB	35.53	189 P	57 40.00	-0.6
PPD	41.71	165 (P)	58 33.00	1.6
ALO	42.29	302 eP	58 37.00	0.6
0.9s 6.72nm 4.4mb				
ANMO	42.29	302 P	58 37.50	1.1
1.0s 6.75nm 4.3mb				
BW06	46.51	312 P	59 10.10	-0.1
1.0s 5.83nm 4.5mb				
DAU	47.15	308 P	59 16.30	0.9
DUG	48.27	308 P	59 24.40	0.5
SES	49.96	321 eP	59 37.00	0.4
TNP	51.33	304 P	59 48.00	0.5
0.9s 2.93nm 4.3mb				
NEW	53.09	317 P	00 00.10	-0.2
ORV	54.80	306 P	00 13.90	1.0
YKA	56.69	334 eP	00 23.60	-2.5
0.7s 2.00nm 4.3mb				
MBC	64.53	347 eP	01 19.50	0.3
0.7s 3.00nm 4.4mb				
INK	66.00	337 eP	01 28.00	-0.7
S.D. = 0.9 on 33 of 33 obs.				

% APR 08, 1991 08h 54m 37.10± 0.76s
40.821 N ± 5.1km 28.015 E ± 7.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

CTT	0.45	44 iPg	54 46.10	-0.2
eSg 54 52.60				
BNT	0.47	189 iPg	54 47.10	0.4
EDC	0.49	194 ePg	54 46.50	-0.5
ISK	0.83	72 ePn	54 53.00	-0.1
DMK	1.02	349 iPn	54 56.50	0.1
YLV	1.06	103 ePn	54 57.10	-0.1
HRT	1.25	89 ePn	55 00.80	0.3
S.D. = 0.4 on 7 of 7 obs.				

* APR 08, 1991 09h 10m 52.10± 0.97s
40.816 N ± 8.8km 29.638 E ± 7.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

HRT	0.02	77 iPg	10 53.80	-0.3
GB2T	0.15	259 ePg	10 54.80	-0.7
iSg 10 57.00				
YLV	0.32	219 iPg	10 58.60	-0.2
eSg 11 03.60				
I2I	0.50	195 ePg	11 02.60	0.4
iSg 11 10.10				
CTT	0.97	290 ePn	11 11.10	0.5
S.D. = 0.7 on 5 of 5 obs.				

& APR 08, 1991 09h 23m 53.70s
61.507 N 146.491 W
DEPTH = 23.0km
SOUTHERN ALASKA (2)
<AEIC>. ML 2.9 (AEIC).

KLU	0.27	93 iPc	24 00.30	0.0
VLZ	0.38	168 iPc	24 01.28	-0.6
eS 24 07.55				
VZW	0.45	184 ePd	24 02.27	-0.8
eS 24 09.31				
SCM	0.52	310 iPd	24 03.30	-0.8
eS 24 11.34				
TOA	0.62	14 iPd	24 05.09	-0.7
eS 24 13.98				
GLI	0.69	205 ePd	24 06.05	-1.0
eS 24 16.14				
TZL	0.74	43 ePd	24 06.90	-0.9
eS 24 17.67				
SML	0.93	290 eP	24 10.71	-0.4
KNK	0.95	265 iPc	24 09.96	-1.4
eS 24 22.82				
CVA	1.03	159 ePc	24 10.59	-2.1
HIN	1.11	180 ePd	24 12.34	-1.6
eS 24 26.71				
SDG	1.12	23 iPd	24 12.12	-1.9
eS 24 26.24				
SGAM	1.19	148 ePc	24 12.79	-2.2
S 24 29.11				
GHO	1.19	284 iPc	24 13.16	-1.9
PLRM	1.27	275 iPc	24 14.68	-1.3

08d 09h

GLB	1.29	92	eS	24 31.35	
			ePc	24 14.17	-2.2
KNIM	1.31	208	ePd	24 15.38	-1.3
RAGM	1.43	141	ePc	24 16.92	-1.5
			eS	24 35.21	
PMS	1.50	261	iPc	24 18.63	-0.8
			eS	24 36.20	
PAX	1.55	18	ePd	24 18.32	-1.8
HMT	1.60	136	eP	24 19.53	-1.4
			eS	24 40.81	
LTl	1.62	205	ePd	24 19.77	-1.3
PWA	1.63	277	ePc	24 20.49	-0.7
MTU	1.63	201	ePd	24 20.08	-1.2
CROM	1.79	113	eP	24 22.49	-1.3
			S	24 46.10	
TGL	1.93	111	eP	24 24.55	-1.2
			eS	24 49.46	
CUT	2.00	298	iPc	24 25.91	-0.7
			S	24 50.93	
SEW	2.02	227	eP	24 26.22	-0.7
SUA	2.04	271	ePc	24 26.62	-0.7
BALM	2.06	101	ePc	24 25.82	-1.8
WAX	2.07	119	ePc	24 25.42	-2.3
SLKM	2.08	243	ePc	24 27.29	-0.5
HUR	2.08	316	eP	24 26.92	-1.0
RND	2.20	331	eP	24 28.62	-1.0
DDM	2.31	7	eP	24 31.13	0.1
SKT	2.44	283	ePc	24 31.33	-1.6
			S	25 01.22	
CTGM	2.55	100	eP	24 33.47	-1.2
TRF	2.63	320	eP	24 34.85	-0.9
WRG	2.64	122	eP	24 35.72	0.0
SPU	2.70	266	eP	24 34.77	-1.9
NCG	2.72	270	ePc	24 35.64	-1.4
CRP	2.74	267	eP	24 35.47	-1.8
CKL	2.83	266	eP	24 36.66	-1.9
BGL	2.85	268	eP	24 37.32	-1.5
RDT	3.03	255	eP	24 38.84	-2.4
CNPM	3.07	232	eP	24 40.29	-1.6
DFR	3.15	256	eP	24 40.99	-2.1
CCB	3.21	350	eP	24 43.36	-0.4
RED	3.25	253	eP	24 42.55	-1.9
NCT	3.27	256	eP	24 43.79	-1.0
MDM	3.55	348	eP	24 47.38	-1.4

51 obs. associated

* APR 08, 1991 09h 35m 51.73±0.66s
1.041 N ±16.1km 120.248 E ±12.6km
DEPTH = 33.0km (normal)
4.5mb (2 obs.)

MINAHASSA PENINSULA

(265)

MNI	4.61	85	ePd	37 01.00	0.1
WB2	25.02	147	iPd	41 12.90	-1.5
			i	42 14.10	
ASPA	27.92	152	eP	41 42.60	1.5
	1.0s	3.40nm			4.0mb
STK	38.49	150	eP	43 30.90	18.3X
	0.5s	2.50nm			
GUN	42.37	312	P	43 45.06	-0.2
	0.4s	25.00nm			5.2mb X
PKI	42.54	311	P	43 46.16	-0.4
KKN	42.75	312	P	43 48.32	0.1
	0.4s	13.00nm			5.0mb
DMN	42.79	311	P	43 49.14	0.6
GKN	43.35	311	P	43 52.78	-0.2

S.D. = 1.0 on 8 of 9 obs.

* APR 08, 1991 09h 48m 03.61s
61.473 N 149.363 W
DEPTH = 35.5km
SOUTHERN ALASKA (2)
<AEIC>. ML 3.0 (AEIC), 3.0 (PMR).

PLRM	0.16	43	iPd	48 09.76	-0.4
			S	48 14.86	
PMR	0.16	43	iPd	48 09.40	-0.7
PMS	0.25	203	iPc	48 10.81	-0.2
PWA	0.30	306	iPd	48 11.41	-0.2
GHO	0.37	35	iPd	48 11.80	-0.7
			iS	48 18.76	
KNK	0.44	98	iPc	48 12.62	-0.8
			eS	48 19.67	
SML	0.60	55	ePc	48 14.61	-1.0
			eS	48 23.08	

SUA	0.66	270	iPc	48 16.01	-0.6
			eS	48 26.85	
CUT	1.03	336	iPd	48 21.23	-0.5
SCM	1.04	69	iPc	48 20.98	-0.9
			eS	48 35.17	
SLKM	1.06	204	ePc	48 21.32	-0.8
			S	48 36.04	
SKT	1.15	297	iPc	48 23.21	-0.3
			S	48 37.97	
NKA	1.17	232	ePc	48 25.13	1.4
GLI	1.25	117	iPc	48 23.88	-1.0
			eS	48 40.98	
SPU	1.33	258	iPc	48 25.84	-0.3
			S	48 44.05	
NCG	1.34	268	iPc	48 26.59	0.2
			S	48 44.55	
CRP	1.36	262	ePc	48 26.87	0.2
SEW	1.37	182	eP	48 25.76	-0.9
KNIM	1.38	144	iPd	48 25.35	-1.5
			eS	48 43.48	
VZW	1.42	106	eP	48 26.89	-0.6
CKL	1.46	260	iPc	48 28.13	0.0
BGL	1.47	263	iPc	48 28.41	0.1
VLZ	1.50	102	ePc	48 27.65	-0.9
			eS	48 47.19	
HUR	1.52	355	eP	48 28.92	0.1
			eS	48 48.61	
LTl	1.62	152	ePd	48 28.69	-1.6
TOA	1.64	66	iPc	48 30.50	-0.2
KLU	1.65	88	ePc	48 29.90	-0.9
MTU	1.71	150	iPd	48 30.19	-1.4
NNL	1.72	214	eP	48 32.14	0.4
RDT	1.73	240	iPc	48 31.54	-0.5
			iS	48 54.45	
DFR	1.84	243	ePc	48 33.23	-0.3
			S	48 55.21	
BRK	1.87	204	eP	48 32.98	-0.9
REF	1.90	240	ePc	48 34.35	-0.2
RDN	1.92	241	ePc	48 34.12	-0.5
RSO	1.94	240	ePc	48 34.73	-0.3
RS2	1.94	240	ePc	48 34.91	-0.1
RDW	1.95	241	ePc	48 34.97	-0.2
RND	1.96	7	ePc	48 35.21	0.1
TZL	1.96	71	ePc	48 35.10	0.0
NCT	1.96	244	iPc	48 35.08	-0.2
			eS	48 59.58	
RED	1.97	239	ePc	48 35.15	-0.2
			eS	49 00.09	
CVA	1.99	116	eP	48 33.84	-1.7
TRF	2.03	348	eP	48 36.66	0.3
SDG	2.09	58	ePc	48 36.88	-0.1
HOM	2.14	213	eP	48 37.39	-0.3
CNPM	2.16	206	eP	48 37.46	-0.5
SGAM	2.25	114	eP	48 36.36	-2.8
MCK	2.28	5	eP	48 39.28	-0.3
PAX	2.36	49	ePc	48 41.16	0.3
RAGM	2.53	113	eP	48 43.93	0.6
GLB	2.67	88	ePc	48 43.98	-1.2
			S	49 17.91	
BWN	2.71	359	eP	48 46.19	0.4
HMT	2.74	112	eP	48 44.02	-2.2
DDM	2.83	33	eP	48 47.91	0.4
PDB	2.92	237	eP	48 47.10	-1.6
SVW	3.04	266	ePc	48 49.40	-1.1
WRH	3.07	10	eP	48 50.19	-0.6
CROM	3.11	101	eP	48 50.32	-1.3
HDA	3.14	19	eP	48 51.87	-0.1
TGL	3.25	100	eP	48 52.48	-1.1
CCB	3.26	12	eP	48 53.05	-0.6
CDD	3.33	222	eP	48 54.15	-0.4
WAX	3.34	105	eP	48 52.62	-2.1
BALM	3.42	94	eP	48 54.29	-1.6
TTA	3.44	298	eP	48 55.10	-1.1
FBA	3.51	11	eP	48 56.00	-1.1
MDM	3.54	8	eP	48 57.10	-0.4
CTGM	3.92	94	eP	49 01.80	-1.2
IMA	4.99	339	eP	49 17.00	-1.3

69 obs. associated

* APR 08, 1991 10h 03m 02.33±1.13s
31.280 S ±8.1km 68.399 W ±15.6km
DEPTH = 18.3 ± 6.9 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.08	231	iPc	03 04.10	-1.9
ZON	0.36	222	iPd	03 08.80	-1.1
			eS	03 17.80	

RTCB	0.40	239	iPd	03 10.00	-0.7
			eS	03 29.50	
RTBS	0.98	247	iPd	03 20.30	-0.1
RTRS	1.44	320	iPd	03 26.30	-1.1
			S	03 50.50	
MDZ	1.64	193	iP	03 29.60	-0.9
			iS	03 52.30	
JACH	2.33	233	iPd	03 43.00	2.5
			iS	04 19.00	
PEL	2.68	226	iP	03 46.50	1.0
			iS	04 24.00	
ROCH	2.78	232	iPd	03 47.90	0.8
			iS	04 29.00	
SAN	2.89	221	eP	03 49.00	0.6
			i	04 29.50	
PCH	2.94	217	iPc	03 50.00	0.9
			iS	04 31.50	
TACH	3.19	222	iP	03 52.20	-0.5
			iS	04 36.00	
LCCH	3.46	230	eP	03 55.50	-0.9
LNW	3.68	223	iPc	03 58.00	-1.6
			i	04 48.50	
CNCB	14.41	2	P	06 28.00	0.1
LPB	14.68	1	P	06 32.00	0.6
ZOBO	14.95	1	P	06 34.70	-0.3
			i	06 39.20	

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

* APR 08, 1991 10h 49m 12.59±0.95s
52.345 N ±15.8km 169.795 W ±10.5km
DEPTH = 33.0km (normal)
4.4mb (7 obs.)

FOX ISLANDS, ALEUTIAN ISLANDS (9)

ADK	4.27	267	eP	50 19.40	2.5
SDN	6.27	58	eP	50 47.50	2.4
PDB	11.45	43	eP	51 58.00	1.3
SVW	11.71	36	eP	52 04.90	4.7X
ANM	12.47	9	eP	52 14.50	4.2X
TTA	12.89	29	eP	52 22.30	6.3X
PMR	14.52	42	eP	52 45.70	8.4X
IMA	15.96	24	eP	52 59.00	2.9
TOA	16.00	43	eP	52 57.30	0.8
FBA	16.89	33	eP	53 07.00	-0.6
INK	23.51	33	eP	54 17.00	-2.9
YKA	30.46	49	eP	55 23.00	-0.9
	0.5s	0.70nm			3.7mb
MBC	30.65	21	eP	55 26.00	0.5
NEW	33.27	76	ePd	55 48.50	-0.3
	0.8s	5.21nm			4.5mb
		i			
SES	35.86	69	eP	56 11.00	0.1
DUG	40.21	84	eP	56 48.40	0.9
MSU	41.63	86	eP	57 00.00	0.7
GOL	45.03	80	ePc	57 26.90	0.0
	0.8s	3.72nm			4.3mb
		i			
ANMO	47.43	85	eP	57 45.50	-0.4
ALO	47.44	85	eP	57 45.50	-0.4
FRB	49.15	35	eP	57 57.00	-1.5
SCH	55.66	43	eP	58 47.00	-0.4
KAF	65.18	352	iP	59 51.50	-0.5
	0.4s	2.30nm			4.6mb
NB2	66.96	359	P	00 03.00	-0.5
	0.7s	1.70nm			4.3mb
HFS	67.84	358	eP	00 07.20	-1.8
	0.4s	2.50nm			4.7mb
KBA	80.92	358	eP	01 23.00	-1.8
	0.9s	4.60nm			4.5mb
		i			

S.D. = 1.5 on 22 of 26 obs.

* APR 08, 1991 10h 51m 21.37±0.90s
52.173 N ±13.8km 169.721 W ±10.8km
DEPTH = 33.0km (normal)
4.4mb (3 obs.)

FBA	17.01	33	eP	55	17.40	-0.5	SMY	9.87	82	ePc	36	23.50	-0.3	ScP	46	32.00					
INK	23.63	33	eP	56	28.00	-1.8		1.1s	5712.10nm			7.1mb	X	eScS	50	26.00					
MBC	30.80	21	eP	57	34.50	-1.0	KUSJ	12.86	229	P	36	57.00	-5.9X	51	eP	40	08.50	-1.3			
NEW	33.27	75	eP	57	57.50	0.0			eS	39	08.90		IRK	32.11	291	iP	40	18.00	-1.4		
SES	35.88	69	eP	58	20.00	0.1	ASAJ	13.11	237	P	37	07.50	1.3		2.0s	340.00nm		5.8mb			
BW06	40.65	79	eP	59	00.40	0.4	HO0J	14.08	230	eP	37	13.30	-5.1X	e			40	36.30	78kmX		
MSU	41.60	86	eP	59	09.00	1.2			eS	39	40.20			e			41	31.20			
GOL	45.01	80	eP	59	36.00	0.4	MRRJ	15.13	235	eP	37	28.50	-3.1X	e			41	46.00			
FRB	49.26	35	eP	00	07.00	-1.2			eS	40	10.20			e			42	15.10			
SCH	55.76	43	eP	00	56.00	-0.9	ADK	15.58	82	eP	37	34.80	-2.5	e			50	21.00			
KAF	65.35	352	iP	02	00.00	-1.9		1.0s	135.00nm			5.2mb		e			51	28.00			
	0.4s		1.90nm			4.5mb	AOMJ	16.88	232	eP	37	47.50	-5.7X				40	24.40	-0.9		
HFS	68.01	358	eP	02	16.70	-2.1			eS	40	41.80		TIA	32.86	257	Pc	40	25.00	-1.1		
	0.4s		3.20nm			4.8mb	OFUJ	17.45	227	P	37	55.20	-5.1X	1.0s		600.00nm		6.3mb			
WRA	86.71	231	P	04	03.00	0.0			eS	40	54.30		HHC	33.30	268	Pc	40	29.00	-1.0		
	0.9s		0.40nm			3.6mb	YAK	17.88	313	eP	38	03.60	-1.4	1.0s		100.00nm		5.5mb			
S.D. = 1.5 on 20 of 22 obs.									ipP	38	53.00			Z	18s		1.50um		4.7MsZ		
									iS	41	14.00			N	12s		0.30um				
? APR 08, 1991 11h 42m 38.10± 2.46s									ePcP	42	23.00			E	11s		0.60um				
39.990 S ±50.8km 91.142 W ±10.4km									eS	42	53.00		SSE	34.17	246	Pc	40	37.50	0.1		
DEPTH = 10.0km (geophysicist)									iScS	49	32.00			1.0s		170.00nm		5.7mb			
4.8mb (2 obs.)									e	50	38.00			Z	16s		1.30um		4.8MsZ		
WEST CHILE RISE (686)							YAMJ	18.93	228	P	38	14.00	-2.5				eS	45	50.00		
							NIIJ	20.16	229	P	38	29.30	0.2				ScP	46	41.70		
LNK	16.87	75	eP	46	37.00	1.3	MDJ	20.22	259	iPd	38	28.50	-1.1	BTO	34.39	269	iPc	40	38.00	-1.4	
ROCH	17.62	73	eP	46	45.50	0.0		1.0s	700.00nm			6.0mb					ePP	41	13.00		
PCH	17.68	75	eP	46	45.50	-0.6			PP	38	55.00						PP	42	04.00		
PEL	17.78	74	iPd	46	47.50	0.3			SP	39	09.00		TIY	34.70	263	iPc	40	41.50	-0.5		
NNA	30.62	28	eP	48	55.00	0.3			S	42	00.00			0.9s		70.00nm		5.4mb			
	1.3s		38.46nm			5.1mb			SS	42	42.00			Z	14s		1.40um		4.9MsZ		
CNCB	30.62	48	P	48	56.00	0.7			ScP	46	00.00			E	16s		1.30um				
LPB	30.78	47	eP	48	51.00	-5.5X			ScS	49	43.50						SS	48	25.00		
			LR	57	40.00		KAKJ	20.50	225	P	38	32.40	-0.1	NJ2	34.78	250	Pc	40	41.80	-0.8	
ZOBO	30.98	47	P	48	58.00	-0.4	MAT	21.10	229	eP	38	38.00	-0.6		0.8s		700.00nm		6.5mb		
	Z	24s		1.38um		4.5MsZ		0.8s	582.09nm			6.1mb					S	46	00.00		
				S	54	16.00			eS	42	22.00						ScP	46	42.80		
				LR	57	24.00		CHJJ	21.15	227	P	38	39.30	0.3				ScS	50	46.00	
SIV	35.44	56	P	49	34.60	-1.9	MTMJ	21.25	230	P	38	40.80	0.6	INK	35.20	37	iPc	40	45.80	0.0	
ALO	75.89	347	eP	54	26.70	0.2	IIDJ	22.11	228	P	38	49.70	1.2		0.9s		72.00nm		5.4mb		
	1.0s		4.75nm			4.5mb	ANM	22.32	43	ePc	38	51.70	1.4				pP	41	04.00	74kmX	
PRI	80.49	336	eP	54	52.30	0.7	TSRJ	22.96	231	P	38	58.10	1.4	MBC	38.17	23	ePc	41	11.50	0.9	
PRS	80.88	336	eP	54	55.30	1.8	CN2	23.16	261	iPc	38	57.00	-1.5		1.0s		51.00nm		5.2mb		
FRI	80.98	337	eP	54	52.20	-1.8		1.0s	400.00nm			5.8mb	WHN	38.50	253	Pc	41	13.50	-0.3		
SAO	81.30	336	eP	54	56.20	0.5			PP	39	28.50			1.0s		300.00nm		6.0mb			
CMB	82.15	337	eP	54	59.30	-0.9			eSP	39	47.00						S	46	56.00		
GUN	167.70	168	PKP	03	00.00	14.1X			S	42	54.00						ScP	46	58.50		
S.D. = 1.1 on 14 of 16 obs.									ScS	49	49.00						ScS	51	07.00		
% APR 08, 1991 13h 29m 12.24± 0.92s							WKYJ	24.22	230	P	39	10.60	1.7	OZH	40.39	243	Pc	41	30.00	0.6	
39.120 N ± 8.3km 27.611 E ±15.4km							YONJ	24.48	235	eP	39	12.30	1.1		1.0s		330.00nm		6.0mb		
DEPTH = 10.0km (geophysicist)							TKSJ	25.15	232	eP	39	19.20	1.7		E	24s		2.70um			
TURKEY (366)							SHK	25.39	235	iP	39	20.80	1.1				S	47	26.00		
MD 2.5 (ISK).								1.2s	937.50nm			6.2mb	LZH	41.00	269	iPc	41	37.00	2.4		
							SNY	25.42	259	iPc	39	19.00	-0.8		1.6s		480.00nm		5.9mb		
								1.3s	300.00nm			5.7mb		Z	18s		0.97um		4.7MsZ		
								Z	18s			1.40um			N	10s		0.47um			
								E	10s			0.50um			E	10s		0.43um			
									PP	39	50.50						PP	42	11.00		
									SP	40	08.00						ScP	47	10.50		
									S	43	30.00						eS	47	33.00		
									SS	44	32.00						SS	48	37.00		
									ScP	46	14.60						SS	50	35.00		
									ScS	50	03.40						ScS	51	23.00		
APR 08, 1991 13h 34m 04.46± 0.11s							TTA	26.19	48	ePc	39	27.00	0.1	GTA	41.35	276	iPc	41	37.40	0.0	
52.433 N ± 2.5km 157.903 E ± 2.2km								0.6s	52.30nm			5.3mb			1.2s		260.00nm		5.8mb		
DEPTH = 144.5km (19 depth phases)							SVW	26.37	52	ePc	39	29.10	0.6		E	15s		1.10um			
5.6mb (138 obs.)								1.5s	432.43nm			5.8mb					PP	42	12.00		
KAMCHATKA (217)							SHNJ	26.51	237	P	39	30.80	0.9				PP	43	16.00		
mb 5.5 (BRK).							IMA	27.42	41	ePc	39	37.80	-0.3				ScP	47	09.40		
CENTROID, MOMENT TENSOR (HRV)								0.6s	32.30nm			5.2mb					S	47	39.00		
Date Used: GDSN							DL2	28.40	256	P	39	46.20	-0.7				SS	48	35.00		
L.P.B.: 11S, 25C								1.0s	900.00nm			6.4mb					ScS	51	24.00		
Centroid Location:								Z	16s		0.80um		4.4MsZ	YKA	44.55	41	eP	42	01.80	-1.0	
Origin Time 13:34: 5.4 0.6								N	12s		0.90um				0.9s		16.30nm		4.7mb		
Lat 52.03N 0.07 Lon 157.97E 0.07									S	44	16.00		CD2	44.57	263	iPc	42	02.70	-0.7		
Dep 143.0 2.4 Half-duration 2.4														0.7s		200.00nm		5.9mb			
Moment Tensor; Scale 10 ¹⁷ Nm							PMR	29.46	51	eP	39	54.50	-1.6		Z	16s		0.80um		4.7MsZ	
Mrr=-0.70 0.12 Mtt=-1.79 0.18								0.9s	45.83nm			5.2mb					PP	43	50.00		
Mff= 2.48 0.16 Mrt= 1.21 0.13								Z	19s		1.00um		4.5MsZ				eS	48	22.00		
Mrf= 0.97 0.11 Mtf= 0.13 0.15							FBA	29.83	44	ePc	39	59.40	0.0				ScS	51	42.40		
Principal Axes:								0.9s	100.10nm			5.5mb									
T Val= 2.81 Plg=18 Azm=276									e	40	44.00	221kmX	GZH	44.76	247	Pc	42	05.00	0.1		
N -0.20 50 29							TOA	30.79	50	ePc	40	07.90	0.0		0.9s		100.00nm		5.5mb		
P -2.61 34 174									e	40	51.00	211kmX				S	48	28.00			
Best Double Couple:Mo=2.7*10 ¹⁷							BJI	30.97	263	eP	40	08.00	-1.6	HKC	44.92	245	eP	42	07.20	1.0	
NP1:Strike=320 Dip=52 Slip=-166								1.5s	290.00nm			5.8mb					eS	48	32.00		
NP2: 222 79 -39								Z	16s		1.45um		4.7MsZ	WMO	45.93	289	iPc	42	14.00	0.0	
									ePP	41	16.00				1.0s		400.00nm		6.0mb		

08d 13h

Z	14s	0.60um	4.7Mszx	MNI	57.81	220	ePc	43	36.50	-6.2X	MUD	68.46	342	iPc	44	51.80	-0.3			
N	12s	0.50um		TNP	58.08	68	iPc	43	44.50	-0.2		0.7s	55.00nm				5.5mb			
E	12s	0.80um			1.0s	87.50nm				5.7mb	COP	68.53	340	iPc	44	51.80	-0.8			
		PP	42	49.50	KKN	58.08	275	P	43	43.60	-1.3		0.7s	117.81nm			5.8mb			
		ScP	47	28.00		0.5s	400.00nm			6.6mb	PSI	69.38	246	ePd	45	00.50	2.2			
		S	48	49.00	PKI	58.16	275	Pc	43	44.16	-1.4	HYB	69.93	273	iPc	45	00.00	-1.7		
		ScS	51	51.00		0.7s	308.00nm			6.3mb		1.0s	125.00nm				5.7mb			
GYA	46.05	256	iPc	42	14.80	-0.4	NST	58.21	253	iPc	43	48.50			3.0X					
	1.2s	300.00nm		5.8mb	PCT	58.25	252	eP	43	46.90	1.1	ELO	70.41	349	iPc	45	04.70	0.7		
N	14s	0.80um					e	48	22.00			1.0s	93.00nm				5.6mb			
E	14s	1.10um			DMN	58.32	275	P	43	45.44	-1.1	EBH	70.61	349	ePc	45	05.80	0.6		
		PcP	43	50.00		0.7s	574.00nm			6.6mb		1.0s	135.00nm				5.7mb			
		PP	44	06.00	GKN	58.32	276	P	43	45.10	-1.3	EAB	70.76	350	ePc	45	06.80	0.7		
		ScP	47	29.00		0.8s	456.00nm			6.5mb	ESY	70.82	349	ePc	45	07.20	0.7			
		S	48	46.00	FRB	58.63	22	ePc	43	46.50	-1.4		0.8s	92.00nm			5.7mb			
		SS	49	50.00			pP	44	19.00	137km	BIX	71.13	55	iP	45	08.50	-0.2			
		ScS	51	50.00	GAR	58.96	295	iP	43	48.60	-2.1	TUL	71.21	55	iPd	45	08.00	-1.2		
BAG	46.43	233	eP	42	18.00	-0.3	BW06	59.00	59	iPc	43	50.80								
		eS	48	53.00	ISA	59.05	71	eP	43	50.00	-1.3									
OCP	47.71	232	eP	42	20.00	-8.1X	DUG	59.06	63	iPd	43	51.10								
PGC	47.80	61	eP	42	28.00	-0.5	CLC	59.45	70	eP	43	53.00								
GMW	48.81	62	eP	42	36.60	0.2	KAF	59.56	336	iP	43	52.80								
KMI	49.39	259	Pc	42	40.00	-1.3		0.4s	18.40nm			5.4mb	EKA							
	1.5s	210.00nm		5.7mb	DAU	59.76	62	ePd	43	56.40	0.0	KRA	71.46	349	Pc	45	10.20	-0.1		
	Z	20s	0.40um	4.4Msz	KHT	59.82	254	iPc	43	57.00	0.4		0.5s	36.80nm			5.4mb			
E	13s	0.50um			SBB	60.11	71	eP	43	58.00	-0.5		71.86	333	iPc	45	12.30	-0.5		
		PP	44	30.00	GSC	60.27	70	eP	43	59.00	-0.6	POO	0.8s	132.00nm			5.7mb			
		S	49	32.00	MWC	60.31	72	eP	44	00.00	0.0		71.94	277	iPc	45	11.20	-2.6		
PNT	49.44	59	eP	42	41.00	-0.2	MSU	60.60	64	iPd	44	01.80								
	0.8s	29.00nm		5.1mb	PEC	61.07	71	P	44	04.00	-1.0	GAC	72.06	36	ePd	45	12.70	-1.3		
QIZ	49.96	247	iPc	42	46.80	1.4	AAI	61.30	214	ePc	44	05.40								
	1.0s	300.00nm		6.0mb	NUR	61.35	336	iP	44	04.90	-1.5	TAB	72.08	310	eP	45	14.00	-0.5		
		S	49	47.00		1.0s	48.00nm			5.4mb	KSP	72.11	336	iPc	45	13.40	-0.9			
		SS	50	40.00	SVO	61.36	178	eP	44	06.00	-0.9		1.0s	109.00nm			5.5mb			
		ScS	52	20.00	VSG	61.46	178	eP	44	06.00	-1.6		i		45	50.50	152km			
EDM	50.22	51	ePd	42	47.00	-0.1	TPC	61.56	70	eP	44	07.00								
		pP	43	33.50	211kmX	PLM	61.63	71	ePd	44	08.30	-0.6	FVM	72.19	50	iPd	45	13.70	-1.2	
DAG	51.05	359	iPd	42	50.60	-2.4	HNR	61.64	178	eP	44	08.00	-0.8		0.8s	83.33nm		5.5mb		
	0.9s	130.25nm		5.7mb	RGS	62.08	344	eP	44	10.00	-1.3	WIT	72.39	342	iPc	45	12.30	-3.5X		
DPW	51.07	59	ePc	42	52.80	-0.8	AKU	62.17	358	iP	44	11.90	0.1	KNA	72.44	209	iPd	45	16.10	-0.4
NEW	51.39	58	ePd	42	55.10	-0.9		1.0s	40.00nm			5.3mb	CLL	72.48	338	iPc	45	15.80	-0.6	
FHC	52.38	70	eP	43	04.80	1.3			i	44	47.40	149km		1.2s	205.00nm			5.7mb		
		epP	43	41.30	159kmX	NDI	62.32	282	iPc	44	11.00	-2.3	SPC	72.56	332	iPc	45	16.50	-0.6	
DAV	52.38	222	eP	43	04.00	0.3		0.9s	29.41nm			5.2mb		i		45	52.70	147km		
KEV	53.01	341	iP	43	06.00	-1.6	KDB	62.34	192	iPd	44	10.00	-3.4X		e		47	52.00		
	0.6s	11.70nm		4.9mb	OBN	62.34	326	iP	44	11.00	-2.1		e		48	23.60				
SES	53.11	53	ePd	43	07.90	-0.8		0.9s	150.00nm			5.9mb	BRG	72.66	337	iPc	45	16.80	-0.7	
	1.0s	145.00nm		5.8mb			e	44	20.00				1.2s	85.00nm			5.4mb			
LSA	53.13	272	P	43	09.00	-0.6			epP	44	45.00	142km		i		45	52.30	144km		
LBFM	53.22	68	iPd	43	10.20	0.3			ePP	46	23.00			i		48	30.00			
WDC	53.36	69	iPd	43	10.90	0.3			epPP	47	02.00			e		50	19.30			
		epP	43	43.00	138km			ePPP	47	54.00			PTT	72.68	327	eP	45	17.00	-0.6	
MIN	54.05	69	iPd	43	15.70	-0.2			e	52	16.00		CTA	72.92	191	iPd	45	18.20	-1.1	
FFC	54.44	45	iPd	43	18.40	0.1			eScS	53	26.00			1.0s	286.00nm			6.0mb		
	0.7s	29.00nm		5.2mb			eSS	56	54.00				WTS	73.14	342	iPd	45	20.90	0.7	
TRO	54.63	344	iPc	43	18.40	-1.1			eSSS	59	20.00			1.0s	250.00nm			5.9mb		
ORV	54.63	69	iPd	43	19.70	-0.3	GLA	63.02	70	eP	44	17.00	-0.9	CLE	73.27	42	iP	45	21.30	0.2
		epP	43	52.50	140km	GOL	63.40	59	P	44	20.50	-0.2	ELC	73.31	50	iPd	45	20.70	-0.8	
BRK	55.33	71	eP	43	25.30	0.3	UPP	63.58	339	iPc	44	20.00	-1.2	PRU	73.34	336	Pc	45	21.30	-0.1
BKS	55.34	71	eP	43	24.50	-0.6			i	44	54.90	146km		1.1s	84.10nm			5.4mb		
	1.0s	65.00nm		5.5mb	NB2	63.79	343	P	44	21.40	-1.2		e		45	27.10	19kmX			
		eS	50	37.20	HFS	64.16	341	eP	44	23.00	-1.9		e		45	56.30				
		eS	52	20.10		0.5s	90.90nm			6.0mb		PP			48	23.50				
LRM	55.40	58	eP	43	25.40	-0.4	Z	19s	0.29um		4.5Msz	RSNY	73.39	36	ePd	45	20.70	-1.1		
KSH	55.46	291	P	43	25.00	-1.1			LR	13	37.00			e		45	55.30	140km		
		PP	44	01.00	HYA	64.52	345	iPc	44	26.10	-1.1	MOX	73.41	338	iPc	45	22.00	0.1		
PCC	55.51	72	eP	43	15.80	-10.5X	SNG	64.76	247	eP	44	30.60	1.3		e		45	57.00	142km	
MHC	56.05	71	eP	43	26.50	-3.9X		1.0s	242.00nm		6.1mb	CBM	73.47	31	iPc	45	21.70	-0.5		
GCC	56.06	72	e(P)	43	31.00	0.8	SUE	64.84	346	iP	44	29.00	-0.3	VR1	73.50	327	ePc	45	23.50	1.1
ARN	56.11	71	eP	43	30.30	-0.4	ASK	65.33	346	eP	44	32.00	-0.4	GBA	73.54	271	Pc	45	20.20	-2.8
CMB	56.30	70	iPd	43	32.00	-0.1	BER	65.40	345	eP	44	32.70	-0.1		0.8s	98.00nm			5.6mb	
		epP	44	04.00	136km	MKS	66.03	223	iPc	44	38.50	1.1	CFR	73.61	325	ePc	45	24.50	1.5	
JNW	56.45	355	eP	43	33.60	1.0	ANMO	66.33	63	iPc	44	39.30	-0.2	OLY	73.67	53	iPd	45	22.00	-1.6
GDH	56.46	13	iPd	43	31.90	-0.7		1.0s	32.50nm		5.2mb	CVO	73.73	327	ePc	45	25.50	1.7		
	1.0s	20.00nm		5.0mb			iPcP	45	09.40	151km	PSZ	73.80	332	iP	45	24.90	0.7			
		i	44	03.00	131kmX		e	45	15.70		BNS	74.05	341	iPc	45	25.60	0.1			
PRS	56.90	72	iPd	43	35.80	-0.4		e	45	27.50			1.5s	213.00nm			5.7mb			
KVN	56.91	68	iPd	43	36.10	-0.4	IPM	66.66	245	ePc	44	42.20	0.7	MLR	74.10	327	ePc	45	27.00	1.0
LLA	56.96	72	eP	43	36.60	0.0		0.9s	289.20nm		6.1mb	KVT	74.14	318	eP	45	26.00	-0.3		
PTI	57.45	61	iPd	43	40.60	0.4	SCH	66.87	26	eP	44	42.00	-0.3	ZST	74.33	334	iPc	45	27.40	0.3
PRI	57.45	72	eP	43	40.30	0.1		0.9s	55.00nm		5.4mb		i		46	03.60	147km			
BONR	57.55	69	iPd	43	41.00	-0.1			pP	45	16.00	140km	KHC	74.37	337	iPc	45	27.80	0.4	
GUN	57.63	275	P	43	40.28	-1.6	QUE	67.25	290	iPc	44	43.80	-1.5		1.2s	125.00nm			5.5mb	
	0.7s	318.00nm		6.4mb			1.1s	84.18nm			5.5mb		e		45	41.50	48kmX			
BDT	57.64	256	eP	43	41.50	0.0			eS	54	28.00			e		46	03.70			
	1.0s	60.70nm		5.5mb	KGM	67.53	242	ePd	44	48.80	1.9	ETA	74.40	350	eP	45	27.70	0.2		

OIS	74.41	198	iPd	45	27.90	0.0	CTT	77.04	323	iP	45	41.50	-1.0	JSC	79.43	46	ePd	45	54.80	-0.9	
	0.2s	25.00nm			5.6mb		HAU	77.04	341	eP	45	42.80	0.3	BOB	79.44	338	Pc	45	56.80	1.1	
BUD	74.45	332	iP	45	28.00	0.2		1.1s	119.65nm			5.5mb		LHS	79.46	46	ePc	45	55.10	-0.7	
KOE	74.45	341	iPc	45	28.30	0.5	Z	21s	0.17um			4.4Msz		MAF	79.47	343	iPc	45	57.00	1.3	
VKA	74.47	334	iPc	45	27.60	-0.4	NAV	77.08	44	ePd	45	52.20	9.3X	TCF	79.47	343	iPc	45	56.60	0.8	
	1.7s	178.00nm			5.5mb		GPA	77.08	322	iP	45	42.50	-0.3	PRK	79.49	324	iPc	45	54.90	-1.0	
ENN	74.48	342	iPc	45	28.40	0.4	OGA	77.09	337	iPc	45	44.00	1.0	RSM	79.50	335	P	45	57.50	1.7	
	1.0s	268.00nm			5.9mb			0.8s	146.00nm			5.8mb		PLDF	79.52	342	P	45	57.14	1.1	
BNH	74.51	34	iPc	45	18.60	-9.7X	ZLA	77.11	339	ePc	45	43.10	0.2	AGO	79.53	342	P	45	57.99	1.9	
WET	74.52	337	iPc	45	28.80	0.5	BSF	77.11	340	P	45	42.79	-0.2	MTF	79.57	345	eP	45	57.40	1.2	
DZM	74.56	172	iPd	45	29.20	0.4	VOY	77.17	335	iPc	45	42.30	-1.0		0.6s	39.70nm			5.3mb		
CMP	74.59	328	ePc	45	29.00	0.2	VLV	77.20	322	iP	45	42.50	-1.0	RSP	79.57	339	P	45	56.25	-0.2	
MEM	74.62	342	iPc	45	29.04	0.3	DIM	77.28	326	eP	45	44.00	0.2	OLP	79.58	192	iPd	45	58.20	1.8	
UCC	74.74	343	Pd+	45	30.10	0.6	PGB	77.30	327	iPc	45	44.00	0.0	BRS	79.61	185	iPd	45	57.50	1.0	
ECB	74.78	350	iPc	45	30.00	0.3	VBY	77.30	334	iPc	45	44.20	0.3	BEE	79.61	299	iP	45	55.30	-1.4	
	0.7s	81.00nm			5.6mb		BBS	77.31	340	P	45	44.21	0.2		0.9s	78.00nm			5.4mb		
KAS	74.81	320	eP	45	31.00	0.8	BLA	77.33	44	ePd	45	43.90	-0.3	LSF	79.63	344	iPc	45	57.50	0.9	
PSN	74.91	325	iP	45	31.00	0.4		0.8s	20.13nm			4.9mb		SFI	79.66	336	Pc	45	58.20	1.5	
ECP	74.93	350	iPc	45	30.80	0.3	OSS	77.47	338	ePc	45	45.90	0.9	MME	79.69	337	P	45	58.60	1.4	
	0.7s	112.00nm			5.7mb		TRI	77.50	335	Pc	45	44.40	-0.6	OHR	79.69	328	iPc	45	56.60	-0.4	
WB2	74.93	203	eP	45	30.70	-0.2	PLD	77.51	326	iPc	45	45.00	-0.1		0.9s	351.00nm			6.1mb		
	0.8s	295.30nm			6.1mb		FLN	77.52	346	eP	45	45.40	0.4					46	04.70	26kmX	
WRA	74.94	203	P	45	30.00	-0.9		0.9s	47.50nm			5.2mb		PGD	79.73	336	Pc	45	58.90	1.5	
	0.9s	301.00nm			6.0mb		Z	20s	0.20um			4.4Msz		BNI	79.79	340	Pc	45	59.30	1.7	
GRC1	74.98	338	iPc	45	31.30	0.4	LLS	77.56	339	ePc	45	46.10	0.6	BDI	79.84	337	P	45	57.80	0.0	
	1.6s	191.00nm			5.6mb		LOMF	77.56	340	P	45	45.69	0.3	PYM	79.85	342	P	45	58.99	1.2	
Z	20s	0.20um			4.4Msz		VTS	77.58	327	iPc	45	46.00	0.4	BHB	79.86	339	P	45	56.97	-0.9	
ABH	75.01	341	eP	45	31.00	-0.1	LDF	77.63	345	eP	45	46.00	0.4	PCP	79.86	338	P	45	57.79	-0.1	
SNF	75.03	343	iPc	45	31.33	0.2		0.9s	32.75nm			5.1mb		IZM	79.88	323	iP	45	56.80	-1.3	
MZX	75.28	71	(P)	45	32.80	-0.2	NA2	77.66	42	eP	45	55.50	9.5X	RRR	79.89	340	P	45	59.22	0.9	
TIH	75.30	333	P	45	32.60	-0.1	KDZ	77.67	326	iPc	45	46.00	0.0	CRE	79.91	336	Pc	45	59.20	1.0	
BZS	75.37	330	eP	45	31.50	-1.6	RIY	77.68	335	iPc	45	45.50	-0.4	SSB	80.01	341	P	45	59.50	0.9	
DRA	75.37	328	ePd	45	34.00	0.9	CTI	77.72	337	Pc	45	46.40	0.1	CKI	80.03	338	Pc	45	59.00	0.3	
DOU	75.37	343	Pc	45	33.10	0.0	VDL	77.81	338	ePc	45	47.80	0.8	KZN	80.10	327	iPc	45	58.00	-1.2	
	0.8s	105.00nm			5.6mb		KCT	77.85	323	iP	45	45.60	-1.4	DOI	80.19	339	P	45	58.90	-0.8	
		e			46	10.30	151km	RZN	77.88	326	iPc	45	47.00	-0.4	PZZ	80.22	339	P	45	59.22	-0.7
VAL	75.52	352	iP	45	34.50	0.6	BNT	77.92	323	iP	45	47.00	-0.4	ROB	80.25	339	P	45	59.63	-0.3	
FUR	75.82	338	iPc	45	36.20	0.5	GRR	77.94	346	eP	45	48.00	0.7	FIN	80.26	338	P	45	59.33	-0.6	
	1.0s	136.00nm			5.6mb			0.7s	55.10nm			5.4mb		LBL	80.30	342	P	46	01.28	1.2	
BHG	75.85	336	iPc	45	36.40	0.5	EDC	77.95	323	iP	45	47.00	-0.5	ELL	80.31	320	iP	46	09.50	9.0X	
	1.0s	118.00nm			5.6mb		RDO	78.07	325	iPc	45	47.50	-0.7	ENR	80.41	339	P	45	59.53	-1.3	
GW	75.85	340	P	45	36.05	0.2	PLE	78.12	330	iPd	45	49.31	0.8	STV	80.42	339	P	45	59.53	-1.4	
KOD	76.13	269	iPc	45	37.60	-0.7	LOR	78.23	342	iPc	45	49.50	0.5	MBL	80.43	216	iPd	46	01.10	0.1	
	0.8s	116.42nm			5.7mb			1.0s	140.65nm			5.7mb			0.6s	28.00nm			5.2mb		
PVL	76.31	326	iPc	45	39.00	0.6	Z	22s	0.22um			4.5Msz		CSS	80.46	317	eP	46	01.00	-0.2	
KBA	76.34	336	iPc	45	39.60	0.8	ALT	78.23	321	iP	45	47.80	-1.4	RJF	80.55	343	eP	46	02.40	1.0	
	0.8s	369.00nm			6.2mb		MMB	78.30	327	iPc	45	49.00	-0.5		1.0s	104.00nm			5.5mb		
		iP			46	12.60		DST	78.31	322	eP	45	48.80	-0.8	Z	22s	0.25um			4.5Msz	
		iSP			46	40.00		LPF	78.31	346	eP	45	50.20	0.8	YER	80.61	321	iP	46	01.50	-0.4
		i			47	00.40		IYA	78.38	330	iPc	45	49.76	-0.2	IMI	80.61	339	P	46	01.79	-0.1
RSCP	76.39	49	iPd	45	38.50	-0.6	LBF	78.48	342	iPc	45	50.60	0.2	AQU	80.72	334	P	46	04.40	2.0	
BEQ	76.44	330	eP	45	39.00	-0.1		0.8s	40.30nm			5.2mb		SBF	80.76	339	eP	46	03.00	0.4	
WLS	76.44	340	P	45	39.42	0.2	SSF	78.49	342	iPc	45	51.00	0.6		0.8s	75.20nm			5.5mb		
CDF	76.46	340	P	45	39.42	0.1	VAL	78.56	339	Pc	45	51.00	0.3	CAF	80.82	343	eP	46	04.50	1.6	
BBTK	76.52	320	iPc	45	40.00	0.2	MMK	78.56	339	ePc	45	52.00	0.9	MNS	80.89	335	P	46	03.50	0.2	
WATA	76.53	337	iPc	45	40.20	0.4	PVY	78.61	330	iPc	45	50.98	-0.3	BRT	81.02	331	P	46	04.10	0.2	
	1.0s	175.00nm			5.8mb		ASPA	78.62	202	iPd	45	51.90	0.6	MRX	81.03	69	(P)	46	06.60	2.3	
		iC			45	40.40	1kmX		1.2s	321.20nm		5.9mb		LFF	81.04	344	eP	46	05.60	1.6	
JMB	76.54	325	eP	45	39.00	-0.7			iS			55	37.30			0.6s	46.90nm			5.4mb	
WTTA	76.58	337	iPc	45	40.60	0.5	DIX	78.65	340	ePc	45	52.70	1.0	AZI	81.05	334	P	46	05.26	1.2	
	1.1s	285.00nm			5.9mb		NKY	78.71	330	iPc	45	51.11	-0.7		0.6s	63.40nm			5.5mb		
		iC			45	40.80	1kmX	SKO	78.71	328	iPc	45	51.60	-0.1	SDI	81.21	334	P	46	05.50	0.5
		i			45	50.00				iS		55	49.20		FRF	81.22	339	eP	46	05.50	0.6
MOTA	76.63	337	iPc	45	40.50	0.1	BRY	78.76	331	iPc	45	51.31	-0.8		1.1s	68.35nm			5.3mb		
	1.1s	207.00nm			5.8mb		EMS	78.76	340	ePc	45	53.00	0.8	ADI	81.26	314	eP	46	10.50	5.1X	
		i			45	49.60	29kmX	AVF	78.78	342	iPc	45	52.50	0.5	KEK	81.28	329	iPc	46	04.50	-0.8
ECH	76.67	340	P	45	40.54	0.1	SMF	78.83	342	iPc	45	52.60	0.3	LCI	81.29	330	P	46	05.50	0.2	
PNJ	76.68	38	eP	45	39.80	-0.7	VAY	78.93	327	iPc	45	53.00	0.2	CDR	81.30	340	ePc	46	06.00	0.6	
		i			45	40.70			1.0s	191.00nm		5.8mb		SHMJ	81.32	314	Pc	46	05.32	-0.4	
		(pP)			46	10.20	120kmX	ORO	78.96	339	P	45	53.90	0.8	LRG	81.38	339	eP	46	06.80	1.0
		PcP			46	15.30			0.1s	3.20nm		5.0mb			0.9s	106.45nm			5.6mb		
DMK	76.69	324	iP	45	40.00	-0.6	EZN	78.96	324	iP	45	52.30	-0.7	Z	22s	0.20um			4.4Msz		
SOTA	76.72	337	iPc	45	41.30	0.5	TTG	78.98	330	iPc	45	52.19	-0.8	RMP	81.42	334	P	46	06.55	0.5	
	1.2s	294.00nm			5.9mb		RMO	78.99	188	iPd	45	52.90	-0.3		1.2s	486.20nm			6.1mb		
		i			45	49.40	26kmX		0.3s	74.00nm		5.9mb		LMR	81.46	339	eP	46			

PPT	81.91	127	iP	46	09.30	0.5	IFR	93.14	346	iP	47	02.00	-1.1	BW06	65.41	53	iP	35	14.80	-0.2	
	1.2s	185.00nm				5.7mb	LKO	116.66	342	PKP	52	32.34	-0.6		0.5s		0.98nm			3.7mb	
SALJ	81.97	313	Pc	46	07.93	-1.2	TIC	119.3	340	PKP	52	37.86	-0.2	WB2	70.14	195	iPc	35	42.90	-0.7	
KFNJ	82.10	313	P	46	08.77	-0.9	KIC	119.59	340	PKP	52	38.22	-0.3		0.6s		2.10nm			3.9mb	
VAH	82.13	128	iP	46	10.30	0.4		0.6s	5.00nm					WRA	70.15	195	P	35	43.00	-0.6	
	1.2s	100.00nm				5.4mb	LIC	119.78	340	PKP	52	38.64	-0.2		0.8s		2.40nm			3.9mb	
CRX	82.13	69	iP	46	12.30	1.8	ZOBO	128.93	63	PKPd	52	56.00	-1.1	ASPA	73.86	194	iPd	36	05.80	0.7	
MGR	82.18	332	P	46	09.90	-0.1		1.0s	12.50nm						0.3s		8.20nm			4.8mb	
JVI	82.18	314	eP	46	15.50	5.3X					56	02.60		KBA	76.62	331	iPc	36	21.40	1.0	
MASJ	82.19	313	Pc	46	09.25	-1.1	LPB	129.16	63	PKP	52	58.00	0.7		0.6s		6.80nm			4.4mb	
RUV	82.20	127	iP	46	10.80	0.5					56	24.00		LOR	79.21	337	eP	36	33.10	-0.9	
	1.2s	165.00nm				5.7mb	BUL	129.42	290	iPKPc	53	05.00	7.6X		0.7s		5.50nm			4.2mb	
TDS	82.39	331	P	46	12.00	0.9	CNCB	129.45	63	iPKPd	52	58.50	0.5	GRR	79.30	340	eP	36	33.40	-1.0	
VLS	82.42	327	eP	46	10.20	-1.1					56	23.00			0.9s		8.20nm			4.3mb	
RYD	82.73	301	iPc	46	12.90	-0.3	SBA	130.13	178	PKP	52	56.70	-0.2	LBF	79.44	336	eP	36	34.20	-1.1	
COO	82.82	185	ePc	46	14.90	1.6	SIV	132.40	55	PKP	52	47.00	-16.0X		0.7s		2.75nm			3.9mb	
WARB	82.92	208	iPd	46	14.90	1.1					53	02.20		SSF	79.49	337	eP	36	34.70	-0.8	
	0.9s	294.00nm				6.1mb	SLR	133.92	285	iPKPd	53	05.50	-0.3		0.9s		4.90nm			4.1mb	
VLI	82.93	325	eP	46	11.20	-2.7	PRY	135.29	285	iPKPd	52	56.00	-12.4X	LPF	79.68	340	eP	36	35.60	-0.8	
EPF	82.96	344	eP	46	14.80	0.7	BAO	137.94	39	e(PKP)	53	02.00	-11.6X		0.8s		6.70nm			4.3mb	
PPM	83.00	68	iP	46	16.30	1.1	ROCH	140.04	81	ePKP	53	14.50	-2.6X	AVF	79.78	337	eP	36	36.30	-0.7	
III	83.07	69	iP	46	15.50	0.3	LCCB	140.05	82	ePKP	53	08.50	-8.3X		0.8s		4.05nm			4.1mb	
AFR	83.09	130	iP	46	14.80	0.0	PEL	140.36	80	ePKP	53	09.00	-8.4X	SMF	79.79	336	eP	36	36.50	-0.6	
ETER	83.20	342	eP	46	18.00	2.8	PCH	140.79	81	ePKP	53	10.50	-7.8X		0.9s		8.20nm			4.3mb	
PPT	83.21	130	iP	46	15.40	-0.1	SPA	142.25	180	iPKPc	53	13.20	-6.6X	LPL	80.04	334	eP	36	38.50	-0.1	
	1.2s	205.00nm				5.8mb		1.0s	72.50nm						0.7s		3.30nm			4.0mb	
PPN	83.25	130	iP	46	15.60	0.0					56	41.40		LPG	80.05	334	eP	36	38.70	-0.1	
	1.2s	125.00nm				5.6mb	CER	144.80	286	iPKPd	53	25.20	0.1		0.7s		3.30nm			4.0mb	
NPS	83.27	322	eP	46	13.50	-2.2		0.9s	107.69nm					MAF	80.51	337	eP	36	40.80	0.0	
PAE	83.29	130	iP	46	15.70	-0.1					56	53.20			1.0s		10.00nm			4.4mb	
	1.2s	180.00nm				5.8mb	VAO	144.99	42	ePKP	53	25.90	0.1	S.D. = 0.9 on 45 of 47 obs.							
TVO	83.55	130	iP	46	14.90	-2.3					54	03.80		? APR 08, 1991 17h 03m 41.40±5.68s							
	1.2s	100.00nm				5.5mb	BMA	145.83	38	ePKP	53	27.80	0.6	36.410 N ±53.8km 29.004 E ±13.7km							
EMON	83.66	349	eP	46	18.70	1.1	S.D. = 1.0 on 442 of 473 obs.							DEPTH = 10.0km (geophysicist)							
IISM	83.77	67	iP	46	20.00	1.6	APR 08, 1991 16h 25m 17.40±0.81s													(366)	
ECRI	83.83	346	eP	46	20.70	2.2	49.283 N ± 6.8km 149.047 E ± 7.8km													TURKEY	
EGRA	83.88	344	eP	46	20.80	2.2	DEPTH = 462.0 ± 10.7 km													MD 3.4 (ISK).	
GMB	83.91	331	P	46	19.68	0.6	4.2mb (24 obs.)													ELL 0.80 65 iPn 03 57.00 -0.1	
	0.6s	54.00nm				5.6mb	NORTHWEST OF KURIL ISLANDS (220)													iSg 04 13.00	
ACX	84.04	70 (P)	46	12.50	-7.3X		ASAJ	6.79	223	P	27	01.90	0.7	YER	0.93	322	iPn	03	59.00	-0.1	
CMS	84.23	190	ePd	46	21.30	1.0	KUSJ	6.88	208	P	26	58.60	-3.5X	CIN	1.40	329	iPgd	04	07.00	0.1	
	0.9s	56.00nm				5.4mb				S	28	18.90					iSg	04	24.00		
MBH	84.23	313	eP	46	26.00	5.3X	HOOJ	7.98	212	eP	27	11.70	-2.3	BCK	1.65	50	iPn	04	10.60	0.1	
STS	84.34	350	eP	46	22.40	1.5				S	28	41.20		KHL	1.95	12	ePn	04	15.00	0.0	
MNO	84.48	332	P	46	22.30	0.3	MRRJ	8.83	222	P	27	22.20	-1.0	S.D. = 0.1 on 5 of 5 obs.							
HOL	84.58	312	iPc	46	23.40	1.0	OFUJ	11.49	210	P	27	51.90	-0.2	* APR 08, 1991 17h 04m 43.12±1.58s							
ERUA	84.67	349	eP	46	24.30	1.7				S	29	55.40		10.242 S ± 7.9km 119.509 E ±13.1km							
ERC	84.98	333	P	46	25.40	1.1	YAMJ	12.86	214	eP	28	07.00	0.2	DEPTH = 81.6 ± 19.3 km							
EROO	85.09	343	eP	46	26.00	1.3	NIJJ	14.07	215	eP	28	19.80	0.3	4.4mb (2 obs.)							
STK	85.16	194	iPd	46	45.40	20.5X	MDJ	14.08	258	eP	28	19.00	-0.5	SUMBA ISLAND REGION (287)							
	1.1s	44.90nm				153km	KAKJ	14.59	210	eP	28	24.50	-0.4	MKS	4.99	360	iPd	05	58.00	0.8	
							MAT	14.99	216	eP	28	29.00	0.0				e(S)	06	57.00		
MEU	85.18	331	P	46	26.25	0.9		0.8s	37.31nm			5.0mb	KNA	10.55	122	eP	07	12.40	-1.1		
BADA	85.24	312	iPc	46	23.30	-2.4	MTMJ	15.10	217	P	28	30.70	0.4				eS	09	05.00		
PZI	85.25	331	P	46	26.90	1.3	CHJJ	15.13	213	eP	28	31.00	0.5	MBL	10.86	178	iPd	07	12.50	-5.2X	
KOT	85.44	315	eP	46	25.00	-1.6	YAK	16.69	327	iP	28	46.80	0.9				eS	09	03.00		
ETOR	85.51	345	eP	46	28.30	1.3				e	31	39.00		MTN	11.68	104	eP	07	28.00	-0.6	
ESEL	85.64	341	eP	46	29.80	2.3	TSRJ	16.75	220	eP	28	47.90	1.2				eS	09	33.00		
OXX	85.67	68	iP	46	30.20	2.0	CN2	17.10	260	eP	28	49.20	-1.0	MEKA	16.31	183	iPc	08	28.50	-0.1	
MEKA	85.90	215	iPd	46	28.80	0.1	TIY	28.69	260	iPc	30	38.30	1.4				eS	11	11.00		
GUD	86.00	346	eP	46	30.00	0.6	SVW	32.70	48	eP	31	12.90	1.9	WARB	17.23	158	eP	08	40.00	-0.1	
ECHE	86.53	344	eP	46	34.50	2.6	IMA	33.44	39	iPc	31	18.30	1.0				eS	11	44.00		
TOL	86.73	346	eP	46	33.00	0.1		0.6s	4.80nm			4.1mb	WB2	17.26	126	iPd	08	40.40	-0.1		
EPLA	86.83	348	eP	46	34.10	0.7	FBA	35.94	40	ePc	31	39.70	1.7		0.4s		10.00nm			4.4mb	
FORR	86.93	205	eP	46	33.00	-0.6	GTA	35.99	273	eP	31	40.60	1.7	ASPA	19.15	136	eP	09	05.00	2.1	
	0.4s	39.00nm				5.7mb		1.0s	10.00nm			4.2mb		0.5s		9.40nm			4.3mb		
KMSA	87.40	300	iPc	46	36.30	-0.1	YKA	50.53	37	eP	33	31.70	-1.2	COOL	20.60	176	eP	09	18.00	0.2	
ACU	87.48	343	eP	46	37.20	0.7		0.4s	1.10nm			3.6mb				eS	12	50.00			
CNB	87.70	187	ePc	46	38.80	1.5	GUN	52.16	270	P	33	46.32	0.5	MUN	21.84	188	eP	09	35.00	4.7X	
EVIA	87.71	345	eP	46	38.70	1.0		0.4s	8.00nm			4.4mb				eS	13	18.00			
EBAN	88.38	346	eP	46	41.80	1.0	KKN	52.63	271	P	33	49.74	0.6	QIS	21.89	120	eP	09	34.00	3.1X	
ADE	88.63	196	iPd	46	41.70	-0.1	PKI	52.69	270	P	33	50.14	0.5	NWAO	22.67	185	eP	09	44.00	5.6X	
	1.5s	277.78nm				6.1mb		0.3s	3.00nm			4.0mb				eS	13	39.00			
EHOR	88.93	347	eP	46	43.70	0.3	DMN	52.87	271	P	33	51.64	0.8	GUN	49.98	320	P	13	31.40	-0.2	
COOL	88.97	211	eP	46	43.00	-0.4	GKN	52.91	271	P	33	51.70	0.7	PKI	50.05	320	P	13	32.20	0.2	
ECOG	89.21	345	eP	46	45.90	1.0		0.4s	14.00nm			4.6mb	DMN	50.27	319	P	13	33.00	-0.6		
AFC	89.23	345	eP	46	45.40	0.3	KEV	54.02	339	eP	33	53.00	-5.2X	KKN	50.28	320	P	13	33.40	-0.3	
EGUA	89.65	345	eP	46	46.70	-0.1	GAR	55.01	291	eP	34	06.10	0.3	GKN	50.84	319	P	13	37.60	-0.2	
SRAT	90.03	300	iPc	46	50.00	0.8	SOD	55.87	337	eP	34	11.00	-0.3	INK	105.71	22	ePKP	23	05.00	7.0X	
BAL	90.19	215	eP	46	48.00	-1.1	NUR	61.72	332	eP	34	50.00	-0.8				pP	23	15.00		
BFD	90.24	192	iPc	46	49.60	0.5	NB2	64.91	339	P	35	10.80	-0.5	MBC	107.06	12	ePKP	23	31.50	31.1X	
TOO	90.28	190	iPd	46	50.90	1.5															

VAO 144.41 202 ePKP 24 18.90 6.5X
S.D. = 0.9 on 13 of 20 obs.

? APR 08, 1991 17h 13m 10.38± 2.59s
15.051 N ± 33.8km 94.887 W ± 16.4km
DEPTH = 33.0km (normal)
3.8mb (3 obs.)

NEAR COAST OF OAXACA, MEXICO (66)
Felt in southern Chiopos.

TPX 2.54 93 iP 13 50.68 0.5

OXX 2.68 319 iP 13 54.82 2.5X

SCX 2.74 52 iP 13 53.13 0.2

IISM 4.58 329 iP 14 19.81 0.6

LVVM 4.89 342 iP 14 19.57 -4.0X

ACX 5.11 291 (P) 13 43.49 -43.3X

IIT 5.13 321 iP 14 30.32 3.1X

PPM 5.36 319 iP 14 33.93 3.3X

IIA 5.44 319 iP 14 34.96 3.7X

III 5.50 308 (P) 14 21.40 -10.9X

MRX 7.59 308 iP 15 05.95 4.4X

TUL 20.79 358 e(P) 17 50.50 -0.8

ALO 22.38 334 eP 18 08.00 0.5

ANMO 22.38 334 eP 18 08.90 1.4

LRM 34.05 338 eP 19 53.80 -0.1

YKA 49.40 348 eP 21 56.20 -2.4

S.D. = 1.4 on 8 of 16 obs.

ADK 4.26 268 ePd 23 29.50 3.0

SDN 6.32 57 eP 23 56.00 0.5

PDB 11.51 43 eP 25 07.50 0.2

SVW 11.78 36 eP 25 12.10 1.2

ANM 12.55 9 eP 25 22.40 1.2

PMR 14.59 42 eP 25 52.90 5.0X

IMA 16.04 24 eP 26 09.00 2.1

TOA 16.06 43 eP 26 05.90 -1.2

INK 23.58 33 eP 27 29.00 -1.3

MBC 30.73 21 eP 28 36.00 0.1

YAK 33.02 311 eP 28 54.60 -1.5

NEW 33.30 75 eP 28 59.00 0.2

EDM 33.44 65 eP 29 00.60 0.7

SES 35.90 69 eP 29 21.00 0.0

LRM 37.28 76 eP 29 35.70 2.8X

FFC 39.01 59 eP 29 47.00 0.0

MAT 39.42 268 eP 29 51.00 0.3

BW06 40.68 79 eP 30 01.60 0.4

MSU 41.64 86 eP 30 10.00 0.8

CN2 42.78 285 eP 30 17.00 -1.1

GOL 45.05 80 eP 30 37.30 0.4

ANMO 47.45 85 eP 30 55.50 -0.3

ALO 47.45 85 eP 30 55.00 -0.8

FRB 49.22 35 eP 31 08.00 -0.8

DAG 49.93 8 eP 31 10.00 -4.1X

SSE 53.54 275 eP 31 42.50 0.7

BTO 53.76 292 eP 31 44.00 0.5

SCH 55.73 43 eP 31 56.00 -1.6

KEV 57.68 353 eP 32 10.00 -1.2

GAC 57.98 56 eP 32 14.00 0.4

WHN 58.09 280 eP 32 14.50 -0.1

GTA 60.29 297 eP 32 28.60 -1.3

LZH 60.38 292 e(P) 32 15.00 -15.6X

Z 20s 0.49um 4.6msz

WMO 63.38 308 eP 32 49.20 -1.3

KAF 65.26 352 eP 33 01.10 -1.2

GYA 65.69 282 P 33 11.80 6.1X

NUR 66.98 352 iP 33 12.80 -0.5

NB2 67.04 359 P 33 13.00 -0.8

HFS 67.92 358 eP 33 18.20 -1.0

Z 16s 0.21um 4.5msz

GAR 75.18 316 eP 34 03.00 -0.1

GUN 76.53 298 PKP 34 11.48 0.3

KKN 76.95 299 PKP 34 14.34 1.0

PKI 77.06 298 PKP 34 13.82 -0.3

GKN 77.13 299 PKP 34 14.34 0.1

DMN 77.19 299 PKP 34 14.04 -0.7

SPC 78.56 353 eP 34 40.30 18.5X

LDF 79.14 7 eP 34 24.10 -0.6

LPF 79.62 8 eP 34 27.60 0.3

LPF 79.62 8 eP 34 34.60 7.3X

ZST 79.75 355 eP 34 28.50 0.5

HAU 80.06 3 eP 34 29.90 0.2

SRO 80.06 354 eP 34 46.60 16.9X

BSF 80.24 2 eP 34 30.90 0.1

LOR 80.70 4 eP 34 33.40 0.3

SSF 80.89 5 eP 34 34.30 0.2

KBA 81.00 358 iPc 34 35.40 0.5

ic 34 36.30

i 35 01.50

i 35 09.50

AVF 81.15 5 eP 34 35.60 0.1

SMF 81.32 4 eP 34 36.50 0.1

LSF 81.58 6 eP 34 38.00 0.2

TCF 81.59 6 eP 34 37.80 0.0

MAF 81.68 5 eP 34 38.80 0.5

LFF 82.83 7 eP 34 44.70 0.4

QUE 84.09 313 eP 34 51.00 -0.2

SBF 84.22 2 eP 34 52.60 1.1

WRA 86.73 231 P 35 03.00 -1.0

WRA 86.73 231 P 35 09.00 5.0X

WRA 86.73 231 P 35 17.00 13.0X

WRA 86.73 231 P 35 21.00 17.0X

HYB 88.95 297 eP 35 15.00 0.0

ASPA 90.12 230 iPc 35 20.50 0.4

SLR 150.18 326 iPKPc 42 10.00 4.1X

S.D. = 0.9 on 59 of 71 obs.

APR 08, 1991 19h 45m 06.89± 1.28s

37.387 N ± 8.7km 72.049 E ± 6.3km

DEPTH = 98.3 ± 14.8 km

4.7mb (7 obs.)

TAJIK SSR (715)

QUE 8.34 212 iPc 47 07.90 0.9

NDI 9.70 152 eP 47 26.00 0.7

MAIO 10.12 268 iPc 47 30.00 -1.0

GKN 14.13 128 P 48 23.74 -0.1

KKN 14.68 127 P 48 30.48 -0.5

DMN 14.70 128 P 48 31.30 0.1

PKI 14.92 127 P 48 33.82 -0.3

GUN 14.98 125 P 48 34.86 -0.1

HYB 20.70 162 eP 49 41.00 -0.2

GBA 24.17 167 Pd 50 15.00 -0.1

0.5s 10.40nm 4.5mb

KOD 27.47 168 eP 50 45.60 -0.4

YAK 42.77 36 eP 53 31.80 36.1X

HFS 42.90 321 eP 52 57.00 0.2

NB2 44.18 322 P 53 07.40 0.1

MBC 66.41 3 eP 55 47.50 0.7

INK 72.89 10 eP 56 27.00 0.6

YKA 80.32 3 eP 57 07.20 -0.7

S.D. = 0.6 on 16 of 17 obs.

* APR 08, 1991 19h 53m 02.79± 0.64s

5.739 S ± 10.0km 77.105 W ± 22.0km

DEPTH = 33.0km (normal)

4.7mb (4 obs.)

NORTHERN PERU (111)

TUNG 4.50 343 eP 54 08.80 -1.9

VC1 5.23 346 eP 54 21.50 0.2

OUR 5.71 346 eP 54 36.30 8.4X

GGP 5.72 345 eP 54 34.60 6.3X

YANA 5.77 345 eP 54 35.00 6.1X

CAYA 5.85 351 eP 54 31.50 1.5

COTA 6.16 348 eP 54 39.50 5.1X

NNA 6.21 178 iP 54 34.50 -0.2

Z 20s 0.35um 5.5mb

LPB 13.89 141 P 57 08.00 47.9X

CNCB 14.17 142 P 56 34.00 10.1X

SIV 18.74 124 P 57 21.00 -0.4

ALO 49.01 328 eP 01 49.00 0.3

SES 63.12 336 eP 03 29.00 -0.5

FRB 69.59 4 eP 04 10.00 -0.3

YKA 73.83 343 eP 04 34.00 -1.7

AKU 83.00 21 iP 05 45.30 19.6X

INK 83.54 342 eP 05 29.00 0.5

MBC 85.42 351 ePc 05 39.20 1.4

WB2 139.89 230 iPKPc 12 31.40 1.0

LZH 149.78 358 ePKP 12 54.60 7.9X

GKN 151.88 36 PKP 12 57.80 7.7X

KKN 152.41 35 PKP 12 58.80 7.9X

DMN 152.45 36 PKP 12 58.80 7.8X

PKI 152.65 35 PKP 12 59.20 7.8X

GUN 152.66 34 PKP 12 59.80 8.4X

S.D. = 1.2 on 12 of 26 obs.

APR 08, 1991 20h 22m 19.40± 1.15s

34.805 N ± 6.8km 27.893 E ± 5.9km

DEPTH = 32.8 ± 10.2 km

3.8mb (3 obs.)

EASTERN MEDITERRANEAN SEA (371)

ML 4.4 (CSS). MD 3.9 (HLW).

NPS 1.93 284 eP 22 55.80 5.3X

YER 2.35 8 iPh 22 57.50 1.0

ELL 2.54 40 iPh 23 00.50 1.2

CIN 2.79 3 eP 23 03.00 0.3

BCK 3.43 39 iPh 23 13.60 1.6

IZM 3.62 352 ePh 23 14.00 -0.6

KHL 3.75 20 ePh 23 12.00 -4.4X

VLI 4.46 297 eP 23 28.00 1.5

CSS 4.47 86 eP 23 27.50 0.8

DST 4.83 7 eP 23 31.30 -0.4

KCT 5.45 4 eP 23 37.80 -2.6

HLW 5.73 148 eP 23 47.00 2.6

KOT 5.89 145 ePh 23 46.50 -0.2

BBTK 6.35 36 eP 24 20.00 26.8X

ZNT 6.49 111 eP 23 55.00 -0.1

08d 20h

VLS	6.78	302	eP	24	00.50	1.4
JVI	6.87	113	eP	24	00.00	-0.4
			eS	25	12.00	
SHMJ	6.87	105	P	23	59.67	-0.8
SALJ	7.09	111	Pc	24	02.94	-0.6
KFNJ	7.14	112	Pc	24	03.83	-0.4
MASJ	7.24	113	Pc	24	04.57	-1.0
MKRJ	7.26	114	Pc	24	05.17	-0.8
LISJ	7.30	117	Pd	24	05.57	-0.8
KZN	7.33	320	eP	24	11.60	4.6X
QTRJ	7.66	115	Pc	24	10.27	-1.3
MBH	7.76	128	eP	24	13.00	0.1
CSTJ	8.24	114	Pc	24	17.83	-1.8
OHR	8.42	320	eP	24	23.20	1.0
BRT	10.40	309	P	24	47.00	-2.3
TDS	10.41	301	P	24	50.00	0.6
ORI	10.50	303	P	24	49.00	-1.7
SFI	15.37	311	P	26	00.60	5.3X
VOY	15.45	321	iPd	25	56.20	-0.3
KBA	16.43	323	iPd	26	09.10	-0.1
	0.8s	2.60nm			3.4mb	
			i	26	25.60	
			e	44	42.00	
			i	44	52.40	
KHC	17.79	328	eP	26	26.00	0.0
VAI	18.24	313	P	26	31.80	0.3
GRF	19.26	326	e(P)	26	43.60	-0.3
HFS	26.98	344	eP	27	58.00	-1.7
	0.4s	2.90nm			4.3mb	
NB2	28.36	343	P	28	09.20	-3.0X
	0.5s	1.10nm			3.8mb	
GKN	48.36	82	P	31	01.94	1.7
DMN	48.90	82	P	31	07.10	2.6
KKN	48.97	82	P	31	05.12	0.1
PKI	49.16	82	P	31	08.50	1.9
GUN	49.41	81	P	31	11.42	2.8X
FRB	62.10	330	eP	32	38.00	-1.0
RSSD	90.11	328	e(P)	35	18.30	0.6

S.D. = 1.3 on 39 of 46 obs.

APR 08, 1991 20h 52m 09.52±0.31s
44.438 N ± 2.5km 7.409 E ± 3.3km
DEPTH = 13.9 ± 2.9 km
NORTHERN ITALY (545)
ML 2.5 (LDG), 2.3 (GEN).

STV	0.20	197	P	52	14.79	0.4
			S	52	18.02	
ENR	0.21	178	P	52	14.90	0.4
			S	52	18.17	
PZZ	0.23	287	P	52	15.92	1.1
			S	52	19.43	
ROB	0.36	113	P	52	17.97	0.8
			S	52	23.00	
BHB	0.42	346	P	52	18.28	0.1
			S	52	23.66	
TOUF	0.44	195	Pg	52	18.84	0.1
			Sg	52	24.34	
AUTN	0.44	178	Pg	52	18.41	-0.4
SAOF	0.46	167	Pg	52	18.49	-0.5
AURF	0.55	186	Pg	52	20.29	-0.3
SBF	0.58	178	Pg	52	20.70	-0.2
			Sg	52	28.00	
FIN	0.62	111	P	52	21.77	0.2
			S	52	29.87	
IMI	0.63	147	P	52	21.66	-0.2
			S	52	29.87	
RRL	0.66	317	P	52	22.38	0.0
RSP	0.72	351	P	52	22.99	-0.4
PCP	0.82	82	P	52	25.46	0.4
			S	52	36.33	
FRF	1.04	212	Pg	52	28.80	0.1
			Sg	52	42.00	
LPG	1.16	336	Pg	52	31.00	0.0
LRG	1.24	218	Pg	52	32.00	-0.2
			Sg	52	47.00	
LMR	1.28	211	Pg	52	32.40	-0.5
			Sg	52	48.80	
CDR	1.41	238	eP	52	35.70	1.0
			eSg	52	53.80	

S.D. = 0.5 on 20 of 20 obs.

APR 08, 1991 20h 58m 30.36±1.24s
44.002 N ± 10.3km 7.620 E ± 6.3km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

ML 1.8 (GEN).

IMI	0.22	115	P	58	34.97	-0.1
			S	58	38.45	
ENR	0.27	327	P	58	35.79	-0.2
			S	58	39.48	
STV	0.32	319	P	58	37.53	0.4
			S	58	41.22	
ROB	0.34	32	P	58	37.12	-0.4
			S	58	40.51	
FIN	0.47	64	P	58	39.69	-0.3
PZZ	0.63	324	P	58	42.76	-0.3
			S	58	50.86	
PCP	0.86	51	P	58	47.69	0.8

S.D. = 0.5 on 7 of 7 obs.

* APR 08, 1991 21h 08m 19.77±2.59s
32.497 N ± 13.8km 142.277 E ± 16.2km
DEPTH = 69.1 ± 23.0 km
4.5mb (3 obs.)
SOUTH OF HONSHU, JAPAN (211)

MAT	5.25	321	iPd	09	37.50	0.0
	0.8s	52.24nm			4.8mb	
			iS	10	37.40	
GUN	48.48	280	P	16	58.20	0.3
PKI	48.99	280	P	17	01.40	-0.4
KKN	49.02	280	P	17	02.00	0.1
GKN	49.48	281	P	17	05.40	0.0
WB2	52.69	189	eP	17	28.80	-0.6
	0.4s	1.10nm			4.2mb	
WRA	52.69	189	P	17	30.00	0.6
	0.4s	2.00nm			4.5mb	
INK	58.12	26	eP	18	08.00	0.0

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

? APR 08, 1991 21h 41m 54.19±1.25s
33.810 S ± 11.4km 179.536 W ± 24.9km
DEPTH = 33.0km (normol)
4.6mb (2 obs.)
SOUTH OF KERMADEC ISLANDS (179)

HBZ	4.17	204	eP	43	02.60	5.5X
			e	47	46.90	
PUZ	4.62	202	P	43	08.40	5.0X
			eS	44	00.70	
NOZ	5.18	202	eP	43	15.10	3.6X
WLZ	5.64	223	P	43	26.20	8.3X
WHH	5.99	211	eP	43	27.50	4.5X
PGZ	7.57	205	eP	43	46.70	1.7
KIW	8.31	211	eP	43	55.20	-0.1
MRW	8.70	210	eP	44	00.00	-0.7
			S	45	36.00	
TCW	8.87	212	P	44	02.10	-1.0
			eS	45	40.60	
THZ	9.94	215	P	44	17.80	0.0
			eS	46	06.10	
KHZ	10.17	210	eP	44	20.90	-0.1
ASPA	41.76	271	eP	49	42.70	0.6
	0.7s	5.50nm			4.4mb	
			i	50	02.40	
WB2	43.04	277	eP	49	52.30	-0.3
	0.3s	6.90nm			4.9mb	
WRA	43.05	277	P	50	04.00	11.3X
	0.9s	5.30nm				
BW06	99.49	45	eP	55	38.30	3.2X
			pP	55	54.00	54kmX
MBC	116.02	13	ePKP	00	33.00	-1.2
FRB	128.95	32	ePKP	00	56.00	-3.2X
KAF	147.26	338	ePKP	01	33.60	1.1
NUR	148.99	337	iPKP	01	38.00	2.7X
	0.6s	11.70nm				
NB2	151.88	349	PKP	01	43.70	4.0X
	0.8s	3.40nm				
LIC	152.08	168	PKP	01	49.00	7.6X
KIC	152.26	169	PKP	01	49.00	7.4X
HFS	152.27	346	ePKP	01	44.70	4.5X
	1.0s	7.90nm				

S.D. = 1.0 on 10 of 23 obs.

APR 08, 1991 21h 45m 40.74±0.34s
52.082 N ± 6.4km 158.585 E ± 6.8km
DEPTH = 33.0km (normol)
4.9mb (44 obs.) 4.1msz (3 obs.)
NEAR EAST COAST OF KAMCHATKA (218)

KUSJ	12.96	232	eP	48	43.10	-1.9
------	-------	-----	----	----	-------	------

ASAJ	13.28	239	eP	48	54.20	4.9X
YAK	18.42	314	eP	49	54.90	0.1
			e	53	26.00	
KAKJ	20.56	227	eP	50	19.40	0.5
MAT	21.19	231	iPc	50	26.30	0.8
	1.0s	42.00nm			4.8mb	
CHJJ	21.22	229	eP	50	27.20	1.4
MTMJ	21.35	232	eP	50	28.20	1.0
IIDJ	22.19	230	eP	50	37.70	2.1
ANM	22.30	42	eP	50	37.70	1.4
IMA	27.41	41	eP	51	24.90	0.0
	0.9s	7.60nm			4.4mb	
FBA	29.79	44	ePc	51	46.50	0.3
	0.9s	26.30nm			5.0mb	
TOA	30.70	49	eP	51	54.90	0.6
INK	35.23	37	eP	52	33.00	-0.5
GTA	41.80	276	eP	53	29.10	0.4
	1.0s	10.00nm			4.5mb	
YKA	44.53	41	eP	53	49.90	-0.6
	0.7s	6.60nm			4.6mb	
GVA	46.38	257	P	54	07.20	1.5
DAG	51.41	359	iPd	54	43.20	-0.6
	0.9s	23.53nm			5.1mb	
SES	52.99	53	eP	54	55.00	-1.1
GUN	58.08	275	P	55	31.54	-1.9
	0.5s	6.00nm			4.9mb	
KKN	58.53	276	P	55	35.20	-1.3
	0.5s	15.00nm			5.3mb	
PKI	58.61	276	P	55	35.58	-1.6
DMN	58.77	276	P	55	36.98	-1.2
	0.4s	9.00nm			5.2mb	
GKN	58.78	276	P	55	36.54	-1.5
FRB	58.80	22	ePc	55	35.50	-2.0
NB2	64.25	343	P	56	13.30	-1.0
	0.7s	7.20nm			4.9mb	
HFS	64.62	341	eP	56	14.70	-2.0
	0.4s	4.50nm			4.9mb	
ALQ	66.12	64	eP	56	26.30	-0.6
	0.8s	3.73nm			4.5mb	
SCH	67.00	27	eP	56	31.00	-1.0
EKA	71.89	349	Pc	57	01.00	-0.9
	0.6s	6.60nm			4.8mb	
WTS	73.61	342	eP	57	12.00	0.0
GBA	73.96	272	Pd	57	12.90	-1.7
	0.8s	4.60nm			4.5mb	
WB2	74.78	204	iPc	57	18.90	-0.2
	0.6s	5.40nm			4.7mb	
WRA	74.78	204	P	57	18.00	-1.1
	0.6s	5.10nm			4.7mb	
KHC	74.86	337	eP	57	19.50	0.1
ENN	74.95	342	iPd	57	20.00	0.2
	1.0s	23.00nm			5.1mb	
MEM	75.08	342	Pc	57	20.70	0.2
KBA	76.83	336	iPd	57	31.50	0.8
	0.9s	13.90nm			5.0mb	
CDP	76.93	341	eP	57	30.90	-0.3
	0.9s	8.20nm			4.8mb	
HAU	77.51	341	eP	57	34.00	-0.2
	0.9s	8.20nm			4.8mb	
FLN	77.96	346	eP	57	36.50	-0.2
	0.8s	8.05nm			4.8mb	
LDF	78.07	346	eP	57	37.00	-0.3
GRR	78.38	346	eP	57	39.10	0.1
	1.1s	22.00nm			5.1mb	
ASPA	78.46	203	eP	57	39.50	-0.2
	0.7s	5.50nm			4.7mb	
LOR	78.69	343	eP	57	40.60	

MAF 79.93 343 eP 57 48.10 0.6
0.6s 14.45nm 5.1mb
MFF 80.01 345 eP 57 48.60 0.7
1.0s 10.00nm 4.8mb
LSF 80.08 344 eP 57 48.50 0.2
0.7s 12.70nm 5.0mb
SFI 80.15 336 P 57 49.70 1.1
MME 80.18 337 P 57 50.50 1.4
BDI 80.32 337 Pd 57 50.80 1.1
RJF 81.00 344 eP 57 53.90 0.7
0.9s 11.45nm 4.9mb
Z 20s 0.10um 4.2msz
SBF 81.24 339 eP 57 55.20 0.7
1.1s 22.00nm 5.1mb
CAF 81.27 343 eP 57 55.70 1.1
0.8s 25.50nm 5.3mb
LFF 81.49 344 eP 57 56.50 0.8
1.0s 20.00nm 5.1mb
LPO 81.66 344 eP 57 57.60 1.0
0.8s 18.80nm 5.2mb
LRG 81.86 340 eP 57 58.00 0.4
1.0s 16.00nm 5.0mb
Z 18s 0.08um 4.1msz
LMR 81.94 340 eP 57 58.50 0.5
PGF 82.13 338 eP 57 59.20 0.0
0.8s 6.70nm 4.7mb
EPF 83.41 344 eP 58 06.20 0.4
0.8s 9.40nm 5.0mb
VAO 144.96 44 ePKP 05 15.50 -0.5
S.D. = 0.9 on 68 of 69 obs.

* APR 08, 1991 22h 35m 03.65± 1.77s
39.225 N ± 13.7km 22.960 E ± 11.8km
DEPTH = 10.0km (geophysicist)

GREECE (364)
MD 2.4 (THE).

AGG 0.53 248 ePc 35 14.08 -0.3
eS 35 22.36
PAIG 0.89 38 ePd 35 21.04 0.3
eS 35 22.20
LIT 0.95 338 ePd 35 20.72 -1.0
eS 35 33.20
THE 1.41 0 ePd 35 28.04 -1.2
eS 35 47.08
SOH 1.62 11 ePc 35 32.60 0.2
eS 35 53.48
GRG 1.78 346 ePd 35 35.36 0.6
eS 35 57.80
FNA 1.98 322 ePd 35 37.60 0.0
eS 36 03.00
OHR 2.51 319 ePn 35 46.50 1.3
S.D. = 1.0 on 8 of 8 obs.

* APR 08, 1991 23h 09m 13.34± 2.64s
33.831 S ± 19.5km 70.168 W ± 11.4km
DEPTH = 131.2 ± 23.2 km
CHILE-ARGENTINA BORDER REGION (127)

PCH 0.36 306 iPc 09 31.80 -0.5
iS 09 45.00
SAN 0.56 312 iPc 09 33.80 0.6
iS 09 45.90
TACH 0.67 285 iPc 09 33.60 -0.3
iS 09 48.00
PEL 0.81 328 iPc 09 34.50 -0.5
iS 09 49.50
LNV 1.04 263 iPc 09 37.10 0.1
iS 09 53.70
ROCH 1.11 320 iPd 09 37.60 -0.4
iS 09 54.90
JACH 1.20 343 eP 09 38.70 0.0
iS 09 56.00
LCCM 1.22 287 iPc 09 39.20 0.4
iS 09 57.70
MDZ 1.45 50 eP 09 42.50 1.1
iS 10 00.10
RTBS 2.25 16 ePc 09 51.90 1.1
RTCB 2.61 27 iPc 09 55.50 -0.1
eS 10 26.00
CFA 2.75 37 ePd 09 56.20 -1.2
S 10 28.40
RTLL 2.88 30 ePd 09 58.40 -0.7
S 10 31.60
RTRS 3.70 10 ePd 10 10.30 0.4
S.D. = 0.8 on 14 of 14 obs.

APR 08, 1991 23h 25m 50.39± 0.32s
6.769 N ± 5.1km 73.026 W ± 5.8km
DEPTH = 154.8km (3 depth phases)
4.6mb (15 obs.)

NORTHERN COLOMBIA (99)

BOG 2.37 206 iPc 26 34.00 3.0
SDV 3.17 48 iPnc 26 43.10 2.3
iSn 27 20.80
TOV 4.38 47 ePn 26 58.00 1.4
iPP 26 59.60
iS 27 48.00
CEOS 5.16 64 iP 27 07.10 0.1
iS 28 02.80
MORO 6.19 48 iP 27 20.70 0.0
UPA 6.81 289 eP 27 27.30 -1.7
0.7s 35.62nm 4.9mb
(S) 28 41.80
OLLA 6.95 62 iP 27 30.80 -0.2
eS 28 38.30
PSO 7.01 218 eP 27 33.50 1.5
ECO 7.09 292 ePd 27 31.20 -1.6
S 28 50.50
LLAV 7.17 59 iP 27 33.90 0.0
YHJ 11.56 343 eP 28 34.10 2.2
eS 28 42.33
PCJ 11.63 340 eP 28 34.10 1.3
HOJ 11.74 342 eP 28 36.89 2.7
STH 11.83 342 iP 28 35.55 0.1
SPJ 12.00 339 iP 28 40.11 2.4
TRN 12.12 71 eP 28 46.21 7.1X
TBH 12.39 72 eP 28 51.69 9.1X
NNA 19.02 192 eP 30 03.70 0.7
0.9s 6.72nm 4.0mb
ZOB0 23.40 168 P 30 47.20 0.1
i 34 50.00
LPB 23.66 168 P 30 49.00 -0.4
i 34 53.00
CNCB 23.95 168 P 30 52.80 0.4
i 34 55.80
CCH 24.94 164 eP 31 04.00 2.6
BAO 33.32 132 ePc 32 15.80 0.0
FVM 34.85 336 P 32 28.70 0.2
0.5s 17.49nm 5.0mb
VAO 39.05 140 eP 33 03.30 -0.6
CBM 40.24 5 P 33 14.40 1.1
BMA 40.69 137 (P) 33 19.00 1.6
ALO 41.61 317 eP 33 23.00 -2.0
0.8s 1.87nm 3.8mb
ANMO 41.61 317 P 33 25.70 0.7
1.0s 3.25nm 3.9mb
GOL 43.80 323 iP 33 43.00 0.2
0.8s 18.75nm 4.8mb
pP 34 20.90 172kmX
RSSD 46.03 329 P 34 00.60 0.3
SCH 48.17 5 eP 34 17.00 0.4
BW06 48.18 324 eP 34 16.00 -1.2
0.6s 2.48nm 4.1mb
pP 34 53.90 169kmX
PLM 48.42 309 P 34 20.00 0.9
PEC 48.86 310 P 34 22.50 0.2
TNP 50.67 315 iP 34 36.00 -0.2
0.7s 5.56nm 4.4mb
pP 35 12.20 159km
LRM 51.67 326 eP 34 43.60 -0.1
SES 53.79 331 eP 34 58.00 -1.0
NEW 55.69 326 P 35 11.50 -1.3
0.7s 8.80nm 4.8mb
FRB 56.96 2 eP 35 20.00 -1.4
YKA 63.34 340 eP 36 02.50 -2.3
0.6s 11.40nm 5.0mb
LKO 66.72 83 P 36 25.72 -1.7
0.8s 11.50nm 4.8mb
TIC 67.48 86 P 36 30.44 -1.8
0.8s 5.50nm 4.4mb
LIC 67.51 86 P 36 30.82 -1.5
0.6s 7.00nm 4.7mb
KIC 67.78 86 P 36 32.64 -1.4
0.7s 9.00nm 4.7mb
INK 73.11 340 eP 37 05.00 -0.1
pP 37 43.00 155km
MBC 73.87 350 eP 37 10.00 0.6
0.8s 12.00nm 4.7mb
pP 37 47.00 150km
GKN 139.25 31 PKP 45 01.26 -0.3
KKN 139.75 30 PKP 45 02.38 -0.2
0.7s 9.00nm

DMN 139.81 31 PKP 45 02.34 -0.4
GUN 139.95 30 PKP 45 02.48 -0.6
PKI 139.99 31 PKP 45 02.54 -0.6
GBA 144.37 55 PKPd 45 08.50 -2.1
0.8s 3.80nm
OIS 145.55 243 iPKPc 45 12.10 -0.4
0.4s 22.00nm
i 45 53.70
ASPA 149.16 234 iPKPc 45 21.80 3.5X
0.6s 39.10nm
WB2 150.38 241 ePKP 45 18.40 -1.7
0.3s 6.80nm
i 45 25.40
WRA 150.39 241 PKP 45 20.00 -0.2
0.6s 23.30nm
S.D. = 1.3 on 54 of 57 obs.

APR 08, 1991 23h 26m 13.52± 0.94s
37.359 N ± 7.4km 141.640 E ± 9.7km
DEPTH = 53.9 ± 6.2 km
4.6mb (6 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)

YAMJ 1.51 303 P 26 38.90 0.3
eS 26 59.40
KAKJ 1.65 226 P 26 39.60 -0.9
S 26 58.80
OFUJ 1.72 1 iPd 26 41.70 0.2
eS 27 03.00
NIIJ 2.11 268 P 26 47.20 0.2
CHJJ 2.50 239 P 26 51.90 -0.6
MAT 2.87 255 iPd 26 58.30 0.5
eS 27 34.00
MTMJ 3.17 257 P 27 02.60 0.4
AOMJ 3.35 343 eP 27 05.50 1.0
IIDJ 3.54 239 P 27 08.70 1.3
TSRJ 4.91 250 P 27 27.50 0.9
S 28 27.20
MRRJ 5.08 355 eP 27 28.60 -0.3
eS 28 28.60
HOJ 5.18 14 eP 27 30.70 0.4
eS 28 26.00
WKYJ 5.83 239 eP 27 39.20 -0.3
KUSJ 6.19 21 eP 27 42.10 -2.4
eS 28 48.70
ASAJ 6.80 6 eP 27 52.20 -0.7
YONJ 6.95 254 P 27 56.10 0.9
TKSJ 7.04 244 eP 27 55.90 -0.5
SSE 18.02 256 eP 30 12.50 -9.1X
Z 20s 0.50um
YAK 25.77 347 eP 31 39.70 -0.9
e 36 06.00
KMI 35.19 261 eP 33 03.50 -1.2
GUN 47.30 275 P 34 44.06 0.0
PKI 47.83 275 P 34 47.76 -0.4
KKN 47.83 276 P 34 47.76 -0.3
DMN 48.05 276 P 34 47.34 -2.4
GKN 48.25 276 P 34 50.86 -0.3
INK 54.02 27 eP 35 35.00 1.1
GAR 54.72 295 eP 35 39.20 -0.5
MBC 56.16 17 eP 35 50.50 1.0
WB2 57.41 188 iPc 35 58.10 -0.7
0.4s 2.90nm 4.7mb
WRA 57.41 188 P 36 06.00 7.2X
0.6s 1.90nm 4.4mb
HYB 58.39 268 eP 36 05.50 -0.5
GBA 61.42 265 P 36 26.10 -0.6
0.7s 9.00nm 5.0mb
DAG 65.48 355 iPc 36 52.40 -0.1
0.9s 5.88nm 4.6mb
NUR 69.75 332 eP 37 20.00 0.6
HFS 73.87 336 eP 37 44.20 0.2
0.4s 2.40nm 4.5mb
NB2 73.96 337 P 37 44.20 -0.4
0.9s 5.00nm 4.4mb
PRU 81.30 329 eP 38 26.30 1.1
KHC 82.36 329 eP 38 32.00 1.2
ZOB0 146.36 59 PKP 45 52.00 2.3
LPB 146.56 60 PKP 46 07.00 17.2X
S.D. = 1.0 on 37 of 40 obs.

APR 09, 1991 00h 06m 36.96± 0.84s
40.063 N ± 6.9km 22.356 E ± 7.4km
DEPTH = 10.0km (geophysicist)
GREECE (364)

LIT 0.11 70 iPd 06 40.36 0.5

09d 00h

THE 0.73 39 ePd 06 43.04
 PAIG 1.03 97 ePd 06 50.92 -0.4
 FNA 1.04 314 ePd 06 56.76 0.4
 07 11.44
 AGG 1.04 181 ePd 06 56.28 -0.3
 07 11.72
 SOH 1.07 45 ePd 06 56.72 -0.5
 07 10.80
 OHR 1.58 312 e(Pn) 07 09.00 3.9X
 S.D. = 0.6 on 6 of 7 obs.

* APR 09, 1991 00h 09m 11.51 ± 0.53s
 5.853 S ± 8.4km 76.849 W ± 16.3km
 DEPTH = 33.0km (normol)
 4.9mb (4 obs.)

NORTHERN PERU (111)

NNA 6.10 180 eP 10 41.30 -0.5
 0.8s 29.85nm 5.0mb
 PT10 6.18 181 eP 10 43.50 0.5
 11 48.50
 ZOBO 13.43 141 P 12 22.00 -0.8
 Z 20s 0.38um
 LPB 13.64 142 P 12 32.00 6.5X
 Z 18s 0.69um
 CNCB 13.93 142 P 12 38.20 8.8X
 S 16 25.00
 SIV 18.46 124 P 13 27.00 0.3
 ALO 49.24 328 eP 17 58.80 -0.5
 0.8s 4.48nm 4.5mb
 SES 63.33 336 eP 19 39.00 -0.6
 FFC 63.90 344 eP 19 42.00 -1.2
 1.0s 10.00nm 4.9mb
 FRB 69.69 4 eP 20 19.00 -0.6
 INK 83.73 342 eP 21 39.00 0.9
 MBC 85.57 351 ePc 21 48.50 1.2
 1.0s 8.00nm 4.9mb
 GKN 151.82 36 PKP 29 00.00 1.3
 S.D. = 1.0 on 11 of 13 obs.

APR 09, 1991 00h 24m 39.49 ± 0.34s
 39.346 N ± 3.2km 28.033 E ± 3.3km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 3.2 (ISK), 3.2 (ATH).

DST 0.53 60 iPg 24 49.60 -0.6
 eSg 24 57.80
 KCT 0.94 15 iPg 24 58.10 0.7
 iSg 25 12.10
 EDC 1.01 353 iPg 24 59.00 0.4
 iSg 25 13.00
 BNT 1.01 355 iPg 24 58.60 -0.1
 eSg 25 12.60
 IZM 1.12 213 iPn 25 00.10 -0.4
 PRK 1.37 266 ePb 25 04.10 -0.5
 eSb 25 21.90
 EZN 1.40 291 iPn 25 05.30 0.2
 IZI 1.49 48 ePn 25 06.60 0.3
 KHL 1.55 131 ePn 25 06.90 -0.3
 YLV 1.60 40 iPn 25 07.60 -0.3
 ALT 1.64 100 ePn 25 08.60 0.0
 CIN 1.74 179 eP 25 11.00 1.0
 ISK 1.89 24 ePn 25 12.00 0.0
 HRT 1.94 40 ePn 25 12.70 -0.1
 GYA 1.99 61 ePn 25 14.00 0.4
 EYL 2.04 53 ePn 25 14.00 -0.3
 DMK 2.48 355 ePn 25 20.20 -0.4
 RDO 2.62 314 ePn 25 22.50 -0.1
 S.D. = 0.5 on 18 of 18 obs.

* APR 09, 1991 00h 43m 20.38 ± 3.04s
 43.363 N ± 14.9km 13.402 E ± 27.3km
 DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)

ARV 0.36 292 P 43 26.50 -1.3
 eSg 43 35.70
 RSM 0.89 310 P 43 37.30 -0.1
 eSg 43 52.60
 AQU 1.01 180 P 43 39.50 0.0
 eSg 43 55.00
 CRE 1.09 285 P 43 42.40 1.5

MNS 1.11 209 P 43 58.30 -0.3
 eSn 43 41.00
 SFI 1.26 297 P 43 59.00 -0.5
 eSg 43 59.00
 PGD 1.32 293 P 43 02.70 0.6
 eSn 44 02.70
 S.D. = 1.1 on 7 of 7 obs.

* APR 09, 1991 01h 40m 38.25 ± 0.71s
 34.856 S ± 15.2km 15.217 W ± 12.0km
 DEPTH = 10.0km (geophysicist)
 4.6mb (2 obs.) 4.7msz (2 obs.)

TRISTAN DA CUNHA REGION (411)

SLR 38.40 88 eP 47 58.00 -3.7X
 NVL 38.79 166 (P) 48 05.00 0.8
 LIC 41.97 15 P 48 30.86 -0.2
 KIC 42.17 16 P 48 33.52 0.8
 0.8s 5.00nm 4.3mb
 TIC 42.38 15 P 48 35.18 0.7
 LSZ 43.48 75 iP 48 41.50 -2.1
 SIV 45.04 283 P 48 54.00 -2.1
 LKO 45.09 13 P 48 56.62 0.2
 0.9s 16.50nm 4.9mb
 PTZ 46.57 76 iP 49 09.00 0.7
 CNCB 50.20 277 P 49 36.20 -0.9
 LPB 50.44 277 eP 49 39.00 0.3
 Z 20s 1.06um 4.9msz
 ZOBO 50.60 277 eP 49 42.00 1.9
 Z 20s 0.64um 4.6msz
 LR 03 42.00
 YKA 124.48 326 ePKP 59 35.90 -2.5X
 0.3s 0.20nm
 YAK 145.00 28 ePKP 00 16.40 -0.1
 S.D. = 1.3 on 12 of 14 obs.

APR 09, 1991 01h 45m 22.55 ± 0.50s
 20.383 S ± 8.5km 178.718 W ± 8.9km
 DEPTH = 617.2 ± 5.4 km
 4.5mb (9 obs.)

FIJI ISLANDS REGION (181)

KRO 3.54 329 ePc 46 45.60 -1.1
 VUN 3.56 311 eP 46 46.00 -0.8
 OVA 3.57 318 eP 46 47.00 0.1
 MBU 4.17 324 ePc 46 51.20 0.3
 NDE 4.21 333 ePc 46 51.10 -0.1
 SGE 4.22 311 iPc 46 52.00 0.7
 eS 48 18.80
 NDF 4.47 305 ePd 46 54.10 1.2
 DZM 13.94 260 iPc 48 24.00 3.9X
 NOZ 18.39 188 eP 49 01.70 -0.5
 LTZ 23.59 197 eP 49 07.50 -1.8
 CMS 33.61 244 iPc 51 16.80 1.5
 PMG 34.66 283 eP 51 24.50 0.4
 1.2s 156.25nm 5.5mb
 STK 37.24 244 eP 52 06.60 21.5X
 0.8s 7.00nm
 QIS 38.97 262 iPc 51 59.00 -0.3
 ASPA 43.89 257 iPd 52 38.10 -0.1
 0.9s 47.30nm 5.0mb
 iS 58 23.40
 FORR 48.69 246 eP 53 14.00 -0.4
 0.3s 23.00nm 5.2mb
 SBA 57.94 184 P 54 20.90 1.8
 PRS 78.20 44 eP 56 22.00 1.0
 GCC 78.21 43 eP 56 21.50 0.5
 MHC 78.62 43 eP 56 24.20 0.9
 NJ2 79.29 310 eP 56 24.00 -2.7
 FRI 79.67 44 eP 56 29.00 0.4
 CMB 79.84 43 ePd 56 29.50 0.0
 WDC 80.02 40 eP 56 30.80 0.5
 ORV 80.03 41 eP 56 30.70 0.2
 MDJ 80.04 325 eP 56 30.50 0.2
 SNY 81.69 320 Pc 56 39.20 0.4
 CN2 81.80 323 Pd 56 39.60 0.3
 TNP 81.92 44 iP 56 40.80 0.5
 TIA 82.70 313 eP 56 44.90 0.9
 TIY 86.70 312 eP 57 03.50 0.0
 PNT 86.94 34 eP 57 04.00 -0.2
 0.7s 8.00nm 4.6mb
 XAN 87.53 308 P 57 07.90 0.5
 ALO 87.86 52 eP 57 08.00 -1.1
 1.1s 4.11nm 4.1mb
 ANMO 87.86 52 eP 57 09.60 0.5

1.0s 2.00nm 3.9mb
 FBA 88.27 13 iP 57 09.10 -1.0
 0.8s 4.40nm 4.3mb
 MCMT 88.30 41 eP 57 12.40 1.4
 BW06 89.35 43 iP 57 15.30 -0.5
 0.8s 5.89nm 4.5mb
 SES 92.18 36 eP 57 28.00 -0.4
 INK 94.34 15 eP 57 37.00 -0.8
 YKA 96.69 25 eP 57 46.20 -2.3
 0.8s 0.80nm 4.0mb
 KEV 128.23 349 ePKP 03 17.00 -3.6X
 NB2 138.78 353 PKP 03 30.30 -10.5X
 0.6s 1.70nm
 MUD 143.50 353 iPKPc 03 46.70 -2.4X
 0.8s 16.00nm
 EKA 144.94 4 PKPc 03 51.40 -0.2
 1.0s 10.90nm
 VRI 147.10 326 ePKP 04 00.00 4.6X
 SPC 147.50 337 ePKP 03 58.60 2.4X
 MLR 147.76 327 ePKPc 04 01.50 4.8X
 CLL 147.79 346 iPKP 03 59.80 3.5X
 0.9s 38.00nm
 PRNI 148.06 295 ePKP 04 02.00 4.5X
 MBH 148.26 294 ePKP 04 02.00 4.1X
 PRU 148.63 343 PKPd 04 02.10 4.4X
 0.9s 14.00nm
 BNS 149.13 353 iPKP 04 03.80 5.4X
 0.9s 79.00nm
 SRO 149.36 337 ePKP 04 03.70 4.9X
 i 04 11.20
 MEM 149.61 354 PKPc 04 04.60 5.5X
 KHC 149.67 344 PKP 04 04.50 5.1X
 1.2s 15.00nm
 e 04 12.50
 e 06 29.50
 GRF 149.70 347 iPKPd 04 05.00 5.7X
 e 04 12.70
 ABH 150.15 352 ePKP 04 05.59 5.6X
 DOU 150.24 356 PKP 04 06.10 6.0X
 FUR 151.13 346 ePKP 04 08.20 6.6X
 i 04 19.00
 KBA 151.62 343 i(PKP) 04 08.70 6.2X
 0.9s 5.40nm
 CDF 151.62 352 ePKP 04 09.20 6.9X
 0.7s 6.60nm
 FLN 151.65 2 ePKP 04 09.10 6.9X
 1.0s 16.00nm
 LDF 151.83 2 ePKP 04 08.70 6.2X
 0.6s 2.70nm
 GRR 152.01 3 ePKP 04 10.00 7.3X
 0.5s 3.65nm
 HAU 152.14 353 ePKP 04 10.20 7.2X
 0.7s 4.40nm
 LJU 152.19 340 e(PKP) 04 10.00 6.9X
 BSF 152.26 352 ePKP 04 10.30 7.0X
 0.7s 4.40nm
 LPF 152.35 3 ePKP 04 10.70 7.5X
 0.8s 10.75nm
 VOY 152.40 341 ePKP 04 10.20 6.7X
 VBY 152.42 338 e(PKP) 04 11.30 7.9X
 LOR 153.10 356 ePKP 04 12.30 7.9X
 0.7s 4.95nm
 SSF 153.33 357 ePKP 04 12.80 8.2X
 0.8s 3.35nm
 LBF 153.37 356 ePKP 04 12.90 8.1X
 0.7s 2.20nm
 OHR 153.50 326 ePKP 04 11.00 5.9X
 LPG 154.55 351 ePKP 04 16.30 9.6X
 0.8s 2.70nm
 LIC 164.65 156 PKP 04 18.50 0.3
 KIC 164.88 156 PKP 04 18.40 0.0
 S.D. = 1.0 on 42 of 78 obs.

* APR 09, 1991 04h 11m 55.92s
 59.600 N 152.668 W
 DEPTH = 78.7km
 SOUTHERN ALASKA (2)
 <AEIC>.

AUE 0.43 236 iPd 12 08.79 -0.3
 AUH 0.46 239 eP 12 09.45 0.0
 AUI 0.47 236 ePd 12 08.97 -0.5
 eS 12 18.98
 XLV 0.50 106 iPc 12 09.05 -0.7
 eS 12 19.58
 HOM 0.52 83 ePc 12 09.52 -0.4

CNPM	0.73	95	iPc	12 20.10	-0.9
			eS	12 11.22	
PDB	0.80	284	ePc	12 23.00	-0.9
			eS	12 11.85	
NNL	0.82	57	ePc	12 24.44	0.3
RED	0.82	356	iPd	12 13.38	-0.7
			eS	12 12.43	
CDD	0.84	217	iPd	12 25.42	-0.9
			eS	12 12.33	
RSO	0.87	357	iPd	12 25.10	-0.6
RS2	0.87	357	iPd	12 13.15	-0.6
RDW	0.89	355	iPd	12 13.17	-0.7
REF	0.89	359	iPd	12 13.30	-0.7
			eS	12 13.41	
RDN	0.92	357	iPd	12 27.46	-0.7
			eS	12 13.64	
BRLK	0.92	79	eP	12 26.87	-1.0
			eS	12 13.20	
MCNL	0.95	245	ePd	12 26.28	-1.0
			eS	12 13.52	
NCT	0.97	352	eP	12 27.25	-1.6
			eS	12 13.35	
RDT	0.99	8	iPd	12 28.69	-1.0
			eS	12 14.09	
DFR	1.00	359	iPd	12 28.32	-0.7
			eS	12 14.50	
SYI	1.00	172	ePd	12 28.98	-0.6
			eS	12 14.57	
NKA	1.35	31	eP	12 28.97	0.6
SLKM	1.53	52	eP	12 20.23	-0.8
CKL	1.61	6	iPd	12 21.16	-0.8
SPU	1.62	11	iPd	12 22.40	-0.8
BGL	1.67	5	ePd	12 22.34	-0.7
CRP	1.69	8	ePd	12 23.31	-0.6
SEW	1.70	71	eP	12 23.71	-0.5
NCG	1.83	8	iPd	12 23.71	-0.7
SUA	2.10	26	ePd	12 25.41	-0.6
PMS	2.26	42	ePd	12 29.21	-1.0
SKT	2.45	13	ePd	12 30.95	-1.2
			S	12 33.34	
LT1	2.47	78	eP	13 03.55	-1.5
PWA	2.47	33	ePc	12 33.30	-0.8
MTU	2.57	79	eP	12 34.00	-1.3
KNIM	2.59	71	ePc	12 34.84	-2.6
PLRM	2.65	40	eP	12 35.87	-2.0
KNK	2.77	47	ePd	12 35.32	-2.2
GHO	2.85	39	ePc	12 36.74	-1.8
CUT	3.05	22	ePd	12 38.36	-1.4
KLU	3.84	57	ePd	12 41.40	-2.8
RND	4.23	24	eP	12 51.04	-1.4
				12 58.00	

42 obs. associated

? APR 09, 1991 04h 45m 38.13 ± 2.01s
 54.089 N ± 43.3km 163.594 W ± 19.8km
 DEPTH = 33.0km (normal)
 4.1mb (2 obs.)

UNIMAK ISLAND REGION (10)

SDN	2.19	54	eP	46 13.70	0.8
PDB	7.68	38	eP	47 31.30	0.9
INK	20.00	33	eP	50 09.00	-1.3
YKA	26.47	52	eP	51 12.60	-1.0
	0.8s	1.30nm		3.6mb	
FRB	45.52	38	eP	53 56.00	0.4
HFS	66.11	1	eP	56 22.80	-0.7
	0.4s	2.10nm		4.6mb	
GUN	78.85	302	P	57 39.80	0.1
KKN	79.24	303	P	57 42.40	0.7
PKI	79.36	303	P	57 42.00	-0.5
GKN	79.39	303	P	57 42.40	0.0
DMN	79.48	303	P	57 43.60	0.6

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

* APR 09, 1991 04h 53m 21.86 ± 0.96s
 37.341 N ± 19.5km 114.321 W ± 6.9km
 DEPTH = 5.0km (geophysicist)

SOUTHERN NEVADA (41)
CL 3.4 (SLC).

MSU	2.06	55	eP	53 57.70	-0.1
TNP	2.41	289	eP	54 03.00	0.1
DUG	3.08	22	eP	54 17.00	4.8X
BONR	3.22	282	eP	54 14.00	-0.3
KVN	3.43	301	eP	54 17.50	0.2
ANMO	6.80	108	eP	55 19.00	14.1X
ALO	6.80	108	e(P)	55 05.00	0.1

S.D. = 0.3 on 5 of 7 obs.

APR 09, 1991 06h 02m 24.51 ± 0.09s
 9.788 S ± 1.9km 74.702 W ± 2.4km
 DEPTH = 123.9km (geophysicist)
 5.9mb (92 obs.)

PERU (116)

mb 6.3 (BRK). Felt (IV) at
 Chimbote, Huonuco and Tingo
 Maria. Depth from broadband
 displacement seismograms.
 FAULT PLANE SOLUTION: P-Waves
 NP1: Strike=335 Dip=63 Slip=-90
 NP2: 155 27 -90

Principal Axes:
 T P1g=18 Azm= 65
 P 72 245

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

RADIATED ENERGY

No. of sta: 10 Focal mech. C
 Energy 3.9 ± 0.8 × 10¹² Nm

MOMENT TENSOR SOLUTION

Dep 125 No. of sta: 13

Moment Tensor: Scale 10¹⁷ Nm

Mrr=-3.90 Mtt= 2.06

Mff= 1.84 Mrt= 0.40

Mrf=-0.16 Mtf=-3.45

Principal axes:

T Val= 5.42 P1g= 2 Azm= 44

N -1.49 4 314

P -3.93 85 167

Best Double Couple: Mo=4.7 × 10¹⁷

NP1: Strike=138 Dip=43 Slip=-84

NP2: 310 48 -95

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 185, 38C

Centroid Location:

Origin Time 06:02:28.7 0.3

Lat 9.88S 0.03 Lon 74.41W 0.03

Dep 144.6 1.0 Half-duration 3.0

Moment Tensor: Scale 10¹⁷ Nm

Mrr=-5.18 0.11 Mtt= 0.21 0.15

Mff= 4.97 0.17 Mrt= 0.34 0.10

Mrf= 0.21 0.12 Mtf=-1.63 0.15

Principal Axes:

T Val= 5.47 P1g= 1 Azm= 253

N -0.26 4 343

P -5.21 85 156

Best Double Couple: Mo=5.3 × 10¹⁷

NP1: Strike=338 Dip=45 Slip=-96

NP2: 167 46 -84

HUA	2.32	195	P	03 04.70	1.6
			S	03 38.70	
PT09	2.37	218	P	03 05.00	0.9
			S	03 37.80	
PT08	2.82	220	P	03 09.30	-0.3
NNA	3.03	224	iPc	03 12.50	0.4
			iS	03 46.00	
PT10	3.18	224	iPd	03 13.50	-0.5
			iS	03 49.50	
ARE	7.33	155	iPd	04 10.00	-0.7
			iS	04 58.50	
ZOBO	9.09	136	ePc	04 33.45	-1.2
TUNG	9.11	336	eP	04 33.50	-1.3
LPB	9.29	137	P	04 37.00	-0.2
CNCB	9.56	138	Pd	04 41.20	0.2
VC1	9.81	338	eP	04 43.50	-0.8
QTO	10.25	338	eP	04 50.30	0.2
QUR	10.28	338	eP	04 51.60	1.1
GGP	10.31	338	P	04 52.20	1.2
CAYA	10.33	341	P	04 50.80	-0.4
YANA	10.35	338	eP	04 51.50	0.0
COTA	10.69	340	eP	04 57.00	1.1
PSO	11.22	346	eP	05 02.50	-0.3
CCH	11.23	133	P	05 05.30	2.4
BOG	14.33	3	eP	05 48.00	4.8X
			iS	08 30.00	
ANT	14.43	164	eP	05 44.50	0.4
SIV	14.64	116	iPc	05 44.20	-2.7
SLA	17.25	151	iPc	06 19.50	0.1
SDV	18.99	12	eP	06 39.10	-0.3

UPA	19.26	345	iPd-	10 09.80	
	1.4s	1190.70nm		06 43.00	1.1
			i	07 05.30	6.0mb
			S	10 18.00	
ECO	19.66	345	(P)	06 49.00	2.8
TOV	20.05	14	iP	06 50.60	0.4
			iS	10 28.20	
RTRS	20.86	167	e(P)	06 58.80	0.6
OLLA	21.19	22	iP	07 02.10	0.4
MORO	21.48	17	iP	07 00.60	-4.1X
GUAN	21.59	25	iP	07 06.50	0.8
CAR	21.59	21	iP	07 06.20	0.4
LLAV	21.61	22	iP	07 06.10	0.2
RTLL	22.20	166	ePc	07 11.50	-0.1
RTCB	22.28	167	iPd	07 12.80	0.5
RTBS	22.30	168	ePd	07 13.60	1.2
CFA	22.52	165	iPc	07 15.00	0.3
CUM	22.68	28	eP	07 15.00	-1.3
			e	11 14.00	
JACH	23.10	171	ePd	07 21.00	0.7
ROCH	23.32	172	ePd	07 22.80	0.2
PEL	23.54	172	iPd	07 24.00	-0.5
	1.2s	1968.75nm			6.4mb
MDZ	23.61	168	iP-	07 27.10	1.9
			i	07 54.00	
LCCH	23.75	173	iPd	07 26.40	-0.1
SAN	23.84	172	eP	07 28.00	0.5
TPP	23.93	34	eP	07 30.95	2.6
			eS	11 39.54	
TACH	24.00	172	ePd	07 28.50	-0.5
PCH	24.03	171	ePd	07 29.30	0.0
TCE	24.08	33	eP	07 30.87	1.0
			eS	11 38.52	
TRN	24.23	33	eP	07 32.43	1.2
			eS	11 45.91	
			e	15 00.00	
LNV	24.24	173	eP	07 30.50	-0.7
TBH	24.28	34	eP	07 33.87	2.1
ITB1	24.34	130	Pd	07 30.90	-1.3
ITB	24.55	130	Pd	07 33.00	-1.3
ITB7	24.76	131	Pd	07 34.80	-1.4
PPD	25.53	121	eP	07 41.60	-1.8
			i	07 51.50	
BAO	26.68	105	ePc	07 58.20	4.1X
BBL	28.35	28	eP	08 05.00	-4.0X
MGP	28.62	15	P	08 11.30	-0.1
PAG	28.71	27	eP	08 08.00	-4.3X
CLLP	28.83	16	P	08 12.60	-0.6
LRS	28.96	16	P	08 14.40	-0.1
CPD	28.98	17	P	08 14.00	-0.6
SJG	28.98	17	P	08 13.50	-1.2
LPR	29.25	17	P	08 16.20	-0.9
BPA	29.53	26	eP	08 15.00	-4.6X
VAO	29.60	120	iPd	08 17.60	-2.7
			i	08 23.10	
			i	08 29.60	
			e	08 33.00	
GCM	29.63	347	eP	08 22.40	2.0
BMA	31.93	117	eP	08 38.30	-2.4
SOB1	33.34	92	eP	08 51.20	-1.8
			e	08 52.00	
			e	08 57.50	
OXX	34.45	321	(P)	09 05.80	3.2X
LVVM	36.33	324	eP	09 19.00	0.9
ACX	36.34	317	eP	09 21.00	2.7
IIT	36.90	321	iP	09 26.60	3.3X
PPM	37.13	321	iP	09 28.20	2.7
III	37.16	319	iP	09 28.00	2.6
CAI	37.31	88	iPc	09 25.10	-1.5
CRX	38.05	320	iP	09 37.00	4.0X
HBF	42.82	353	P	10 12.00	0.3
SGS	43.10	353	P	10 14.00	0.1
PRM	44.23	351	P	10 22.60	-0.5
JSC	44.26	352	P	10 23.00	-0.3
LHS	44.40	353	P	10 24.00	-0.4
GBTN	46.09	349	P	10 35.00	-2.8
RSCP	46.29	348	ePd	10 38.60	-0.9
			i	10 51.10	
			e	12 46.70	
BLA	47.06	354	iPd	10 45.30	-0.2
	1.3s	461.54nm			6.1mb
NAV	47.20	353	P	10 46.00	-0.6
CVL	47.65	356	P	10 50.00	0.0
			pP	11 19.80	129kmX
NA2	47.75	357	P	10 51.00	0.3
			pP	11 20.80	129kmX

09d 06h

OLY	47.75	341	P	10	49.00	-1.9	PRS	63.48	319	ePd	12	43.40	-0.2	i	14	25.00				
ELC	48.77	345	P	10	56.00	-2.6	SAO	63.79	319	eP	12	45.80	0.2	i	14	43.00				
TUL	49.62	337	ePc+	11	02.90	-2.3	CMB	63.89	321	ePc	12	44.63	-1.7	i	14	52.00				
	1.0s	665.20nm			6.5mb				epPc	13	14.93	124kmX	e	17	22.00					
Z	21s	0.27um			4.2Msz				e	13	32.31									
									eP*P	41	33.30		LIJA	79.72	50	eP	14	21.00	0.7	
													STS	79.72	43	iPc	14	20.20	0.1	
FVM	49.75	344	iPd	11	04.30	-1.9	ARN	64.19	320	P	12	48.00	-0.3	EPRU	79.88	50	iPc	14	22.60	1.5
	0.8s	181.82nm			6.0mb		MHC	64.26	320	ePd	12	49.30	0.5	EHOR	80.17	49	iPd	14	23.20	0.7
							GCC	64.30	319	eP	12	49.50	0.6	GDH	80.23	8	ePd	14	20.43	-1.7
							SCH	64.70	5	ePd	12	50.10	-1.1				epPc	14	51.71	123kmX
																i	17	24.00		
CCM	50.04	343	iPd	11	07.28	-1.1	LRM	64.90	332	ePd	12	52.00	-0.9	SPA	80.28	180	iPd	14	22.90	0.1
							BKS	64.95	320	eP	12	53.00	-0.1		1.0s	157.50nm			5.7mb	
									0.8s	259.00nm		6.2mb					i	14	56.10	
LVNJ	50.34	360	P	11	10.00	-0.6			eSS	26	26.00		EPLA	80.36	46	eP	14	24.30	0.7	
SCP	50.41	357	ePd	11	10.35	-0.8	BRK	64.97	320	ePd	12	53.20	0.0	MAL	80.42	50	iPd	14	25.50	1.6
									e	13	23.50					iS	24	23.00		
							ORV	65.51	322	eP	12	56.80	0.1	ERUA	80.49	44	eP	14	25.10	0.9
GMTN	50.42	1	eP	11	10.20	-0.9	MIN	66.06	322	eP	12	59.20	-1.2	EMON	80.76	43	eP	14	26.00	0.4
PNJ	50.44	1	iP	11	11.70	0.4	WDC	66.77	322	iPd	13	02.60	-2.1	EGUA	81.09	50	eP	14	27.80	0.3
									eP*P	41	31.50		ECOG	81.24	50	iPc	14	29.30	1.0	
TBR	50.68	0	P	11	13.00	-0.1	LBFM	66.85	323	P	13	05.00	-0.4	AFC	81.25	50	eP	14	29.20	0.8
CLE	51.41	353	iP	11	17.50	-1.2	SES	67.77	336	iPd	13	09.80	-1.0	EBAN	81.37	49	eP	14	29.70	0.8
HRV	52.12	3	ePd	11	23.77	-0.2			0.8s	492.00nm		6.4mb	TOL	81.76	47	ePd	14	31.55	0.7	
							FHC	67.78	322	eP	13	11.70	0.6		1.3s	1538.46nm			6.6mb	
							FFC	68.25	343	eP	13	12.00	-1.6				epPc	15	02.83	122kmX
WVLY	52.12	356	P	11	24.00	-0.1			0.8s	119.00nm		5.8mb	GUD	81.94	46	eP	14	32.90	1.0	
ALO	53.69	328	iPd	11	35.30	-0.6	NEW	68.87	331	iPd	13	16.40	-1.2	ENIJ	82.17	50	eP	14	32.90	-0.1
	0.9s	159.66nm			6.0mb				0.9s	162.28nm		5.9mb	EVIA	82.48	49	eP	14	36.00	1.3	
ANMO	53.69	328	iPd	11	35.76	-0.2							SIT	82.95	331	eP	14	37.90	1.4	
	0.8s	111.94nm			5.9mb		LON	70.20	328	ePd	13	24.96	-0.9	ECRI	83.76	45	iPd	14	42.20	1.0
							BMW	70.79	327	P	13	30.00	0.6	ECHE	83.91	48	eP	14	43.30	1.4
RSNY	54.08	0	ePc	11	37.80	-0.6	PNT	70.79	331	ePd	13	29.00	-0.3	ACU	83.99	49	iPc	14	43.20	0.8
	1.5s	307.22nm			6.0mb				1.0s	427.00nm		6.2mb	BST	84.70	39	P	14	46.03	0.4	
							EDM	70.86	337	iPd	13	28.50	-1.2	BOH	84.97	45	P	14	48.02	0.8
BNH	54.21	3	P	11	39.60	0.2	RUV	70.90	257	iP	13	31.40	0.9	ELYF	85.00	45	P	14	47.57	0.3
GAC	55.24	359	ePd	11	47.00	0.3	VAH	71.13	257	iP	13	32.90	1.0	MADF	85.11	45	P	14	48.02	0.2
	1.0s	161.00nm			5.9mb				0.9s	95.00nm		5.6mb	EGRA	85.17	46	eP	14	51.10	3.0X	
AIA	55.86	175	eP	11	57.90	6.9X	TPT	71.14	257	iP	13	33.00	1.0	LHE	85.18	45	P	14	48.93	0.7
CBM	56.77	5	iPd	11	57.00	-0.7			0.9s	100.00nm		5.6mb	ESCF	85.26	45	P	14	49.00	0.4	
							LIC	71.20	80	P	13	30.68	-1.7	EROO	85.28	47	iPc	14	49.60	0.9
									1.1s	64.00nm		5.4mb	EBR	85.34	47	iPc	14	50.00	1.0	
GLD	56.84	332	ePd	11	58.00	-0.6	GMW	71.23	328	P	13	31.40	-0.5	JAU	85.39	45	P	14	50.17	0.7
GOL	56.87	332	iPd	11	58.50	-0.4	TIC	71.30	80	P	13	31.48	-1.5	BTH	85.53	45	Pc	14	50.00	0.1
	0.7s	54.61nm			5.6mb		PMO	71.41	257	iP	13	34.60	1.0				iPcP	14	58.00	
									0.9s	125.00nm		5.7mb				pP	15	23.00	129kmX	
GLA	57.23	320	eP	12	02.00	0.7	LKO	71.41	76	Pd	13	31.98	-1.7	EPF	85.89	45	eP	14	51.80	0.1
BAR	58.18	318	eP	12	08.00	0.1	KIC	71.51	80	P	13	32.76	-1.5		1.5s	177.60nm			5.8mb	
									0.8s	79.00nm		5.5mb	AKU	85.93	20	iPc	14	53.60	2.2	
TPC	58.69	320	eP	12	11.00	-0.4	PGC	72.27	328	ePc	13	39.20	1.2		1.0s	108.00nm			5.7mb	
PLM	58.73	319	eP	12	13.00	1.1			1.0s	234.00nm		5.9mb	SBA	86.26	191	iPd	14	54.10	1.2	
RKT	58.94	249	iP	12	13.40	0.1	TVO	72.46	254	iP	13	40.40	0.6	LPF	86.51	40	eP	14	53.90	-0.6
	1.1s	70.00nm			5.6mb				0.9s	55.00nm		5.3mb	MFF	86.64	42	eP	14	54.90	-0.3	
PEC	59.26	319	ePd	12	15.00	-0.4	PPN	72.65	255	iP	13	41.20	0.3	LFF	86.73	44	eP	14	55.20	-0.5
	0.8s	22.94nm			5.3mb				0.9s	40.00nm		5.2mb		1.0s	144.00nm			5.9mb		
							PAE	72.78	255	iP	13	42.00	0.4	GRR	86.74	40	eP	14	55.10	-0.5
MSU	59.41	326	P	12	16.00	-0.5			0.9s	85.00nm		5.5mb		1.2s	196.35nm			6.0mb		
RVR	59.46	319	eP	12	17.00	0.3	PPT	72.78	255	iP	13	42.10	0.4	ESEL	86.81	49	iPc	14	56.50	0.3
RSSD	59.89	336	eP	12	18.50	-1.2			0.9s	75.00nm		5.5mb	FLN	87.09	40	eP	14	56.80	-0.5	
	1.0s	298.26nm			6.3mb		AFR	72.98	255	iP	13	43.40	0.6		1.2s	193.40nm			6.0mb	
GSC	59.93	321	ePd	12	20.06	0.0	FRB	73.47	3	ePd	13	44.00	-0.7	Z	20s	0.13um			4.3Msz	
									1.1s	444.00nm		6.2mb	LDF	87.27	40	eP	14	57.80	-0.4	
MWC	60.05	319	eP	12	22.00	1.1	SNA	74.93	160	iPd	13	54.80	1.7		1.1s	156.30nm			5.9mb	
PAS	60.08	319	ePd	12	22.26	1.4			0.9s	151.26nm		5.8mb	RJF	87.36	43	eP	14	58.20	-0.5	
							TIO	76.20	55	iPd	14	02.00	0.8		1.1s	161.15nm			5.9mb	
SBB	60.19	320	eP	12	21.00	-0.7							Z	20s	0.10um			4.2Msz		
DAU	60.30	328	P	12	22.00	-0.7							ETER	87.46	46	eP	14	59.60	0.3	
CLC	60.76	321	eP	12	25.00	-0.6	AVE	76.91	52	iP	14	06.00	1.0	CAF	87.63	44	eP	14	59.60	-0.5
DUG	60.96	327	P	12	26.40	-0.6							LSF	87.64	42	eP	14	59.40	-0.7	
ABL	61.19	319	P	12	28.20	-0.5	LIS	77.65	47	iPd	14	09.40	0.5	EKA	87.72	33	Pc	15	00.50	0.3
ISA	61.21	320	eP	12	28.00	-0.7	YKA	78.38	342	eP	14	10.60	-1.8		1.2s	123.80nm			5.8mb	
BW06	61.23	331	iPc	12	27.20	-1.7			1.0s	139.60nm		5.7mb	WIN	87.95	112	iPd	15	02.00	-0.3	
	0.8s	59.52nm			5.6mb		IFR	78.78	53	iPd	14	16.50	1.0		1.0s	95.00nm			5.8mb	
SYP	61.49	318	eP	12	31.00	0.4							CER	88.00	123	iPc	15	02.00	-0.2	
BLP	61.79	318	P	12	32.00	-0.4	EVAL	78.97	49	iPd	14	17.20	1.0	BALM	88.00	333	iP	15	01.50	-0.1
TNP	61.99	323	iPc	12	33.80	-0.2	PTO	78.99	45	iPd	14	16.50	0.3				i	15	09.50	
MBO	62.10	68	iPc	12	32.90	-1.9	CNIL	79.05	50	eP	14	18.50	1.9	TCF	88.10	43	eP	15	01.40	-0.9
BONR	62.56	322	P	12	38.20	0.3	PLAT	79.19	50	eP	14	19.00	1.6	INK	88.11	341	iPd	15	01.70	-0.1
FRI	62.82	320	ePd	12	37.40	-1.8	GIBL	79.29	50	eP	14	19.00	1.1		0.7s	72.00nm			5.8mb	
							EZAM	79.33	44	eP	14	18.20	0.2	AVF	89.00	42	eP	15	05.60	-0.9
PRI	62.91	319	eP	12	39.50	-0.5	EJIF	79.52	50	eP	14	21.00	1.8	SSF	89.17	42</				

		1.0s	125.00nm		5.9mb	WIT	92.55	37 eP	15 23.00	0.3	PTJ	97.40	45 iPc	15 45.70	0.5
	Z	20s	0.05um		3.9MsZ	SLE	92.63	42 ePd	15 23.40	0.1	HVAR	97.45	48 iPd	15 44.90	-0.5
LBF		89.46	42 eP	15 07.40	-1.4	BOB	92.69	45 P	15 24.10	0.4	HFS	97.61	30 ePKP	15 45.80	0.1
		1.2s	104.15nm		5.8mb	LLS	92.79	43 ePd	15 24.60	0.3		1.1s	73.10nm		6.1mb
KLU		89.77	333 P	15 09.00	-0.9	VDL	93.03	44 ePd	15 25.60	0.2	KMZ	97.83	105 iP	15 48.00	0.2
			pP	15 45.00	140kmX	PDB	93.14	330 P	15 24.00	-1.3			i	16 36.50	
MBC		89.78	350 ePd	15 10.30	0.7	STU	93.29	41 ePd	15 25.50	-0.8	VKA	97.90	42 iPd	15 47.40	0.1
		0.6s	282.00nm		6.5mb		1.2s	87.50nm		5.9mb		1.4s	125.00nm		6.2mb
CDR		89.87	46 iPd	15 10.50	-0.2	BDI	93.37	46 P	15 26.70	-0.2	KSP	98.13	40 iP	15 49.30	1.0
TOA		90.10	334 ePd	15 12.70	1.3	MME	93.47	46 P	15 27.50	0.0		0.9s	41.00nm		6.0mb
		0.9s	713.80nm		6.8mb	MAO	93.48	48 P	15 28.50	1.2	ZST	98.41	43 iP	15 50.30	0.7
GRN		90.23	44 P	15 12.85	0.5	OSS	93.53	43 ePd	15 27.80	0.1			i	15 57.70	
LRG		90.24	46 eP	15 12.10	-0.2	ERC	93.83	52 P	15 29.90	0.8			i	16 24.00	
		1.0s	112.00nm		5.9mb	SVW	94.13	331 ePd	15 29.50	-0.5			e	19 07.20	
LMR		90.32	46 eP	15 12.30	-0.4		1.0s	73.00nm		6.0mb			e	20 16.20	
		1.0s	144.00nm		6.0mb	PGD	94.14	46 P	15 29.90	-0.6	BUL	98.94	112 iPd	15 52.00	-0.8
FRF		90.47	46 eP	15 13.00	-0.4	OGA	94.16	43 iPd	15 31.10	0.5	UZD	99.28	44 e(P)	15 54.00	0.4
		1.0s	152.00nm		6.1mb		1.2s	91.00nm		6.0mb	UPP	99.56	31 iP	15 55.90	1.4
SNF		90.56	39 iPc	15 13.60	0.0	SFI	94.24	46 P	15 30.60	-0.1	BUD	99.65	43 eP	15 55.20	0.0
DOU		90.65	39 Pc	15 14.20	0.1	CRE	94.26	47 P	15 29.90	-1.1	LSZ	99.67	107 iPc	15 56.00	-0.2
		0.9s	205.00nm		6.3mb	SOTA	94.34	43 iPd	15 31.50	0.2			i	16 11.50	
			e	15 44.00				i	15 39.40		KRA	100.40	41 ePdiff	15 59.00	0.4
			SKS	25 58.00		IMA	94.44	336 ePd	15 31.00	-0.4		1.3s	67.00nm		6.1mb
SURF		90.79	45 P	15 15.77	0.6		0.8s	30.17nm		5.7mb			e	16 07.50	
BNI		90.82	44 P	15 16.20	1.0	CTI	94.45	44 P	15 32.10	0.3	OHR	100.49	50 ePdiff	16 00.20	0.9
RRL		90.87	45 P	15 15.70	0.2	FUR	94.54	42 iPc	15 32.70	0.6		1.1s	93.00nm		6.3mb
RSL		90.93	44 P	15 15.84	0.1		1.0s	68.00nm		6.0mb			i	16 17.50	
LPL		90.97	44 eP	15 16.10	0.1	FAI	94.57	53 P	15 34.81	2.4	SPC	100.56	42 ePdiff	16 01.40	1.8
PZZ		91.00	45 P	15 16.52	0.5		1.4s	150.90nm		6.2mb	SKO	101.02	49 iPdiff	16 01.70	0.1
VITF		91.08	41 P	15 15.91	-0.2	MCT	94.59	53 P	15 34.70	2.0	BZS	101.33	45 ePdiff	16 01.00	-1.8
SBF		91.09	46 eP	15 15.90	-0.5	MNS	94.59	48 P	15 32.38	-0.1	NUR	103.06	30 ePdiff	16 00.90	-9.3X
		1.0s	108.00nm		6.0mb		0.7s	8.10nm		5.2mb	KEV	103.18	20 ePdiff	16 10.00	-0.5
STV		91.10	45 P	15 16.21	-0.2	WTTA	94.63	43 iPd	15 33.00	0.2	SOD	103.34	23 ePdiff	16 11.00	-0.2
DOI		91.10	45 P	15 16.60	0.2		1.0s	129.00nm		6.2mb	MLR	104.37	46 ePdiff	16 19.00	2.5X
ENR		91.16	45 P	15 16.11	-0.6			i	15 38.30				e	20 23.00	
BHB		91.19	45 P	15 16.31	-0.4	TTA	94.71	333 ePd	15 32.30	-0.3	OBN	110.12	35 ePKP	20 42.00	-0.9
EMS		91.23	44 ePd	15 17.40	0.3		0.8s	13.30nm		5.4mb		1.0s	*****nm		
LSD		91.24	44 P	15 18.05	0.8	MUD	94.71	34 iPc	15 33.70	1.1	Z	16s	0.40um		5.1MsZx
RSP		91.25	44 P	15 17.64	0.5		0.8s	47.00nm		5.9mb			i	21 16.00	
PMR		91.25	333 ePd	15 17.10	0.5	GRF	94.76	41 ePd	15 33.50	0.5			e	30 31.00	
		0.8s	37.10nm		5.6mb		1.5s	92.00nm		5.9mb			e	36 32.00	
HAU		91.27	42 eP	15 16.20	-0.8	Z	20s	0.30um		4.8MsZ	PRNI	111.85	61 ePKP	20 47.00	0.0
		1.2s	71.40nm		5.7mb			e	16 06.20		BFD	121.67	215 ePKP	21 05.00	-0.5
Z		20s	0.10um		4.3MsZ	GIB	94.95	52 P	15 34.30	0.0	CMS	123.52	222 iPKPd	21 09.20	-0.1
SLKM		91.42	331 eP	15 17.60	0.1	ARV	94.95	47 P	15 33.60	-0.5	RMO	124.49	228 iPKPd	21 10.60	-0.7
			epP	15 51.00	129kmX	MOX	95.16	40 iP	15 35.70	0.8		0.5s	86.00nm		
IMI		91.42	46 P	15 17.54	-0.4		1.7s	79.00nm		5.8mb	YAK	124.91	346 iPKP	21 10.20	-0.7
LOMF		91.44	42 P	15 17.74	-0.2	FVI	95.31	44 P	15 36.10	0.5			e	21 45.00	
ROB		91.49	45 P	15 17.75	-0.4	SDI	95.33	49 P	15 36.30	0.4			i	22 56.00	
BSF		91.52	42 P	15 17.83	-0.5	RFI	95.40	49 P	15 37.11	1.0			i	24 43.00	
WLF		91.52	40 iPd	15 18.62	0.6		1.5s	1036.80nm		7.0mb X			e	25 37.00	
			id	15 26.61		MNO	95.46	53 P	15 37.50	0.7			e	30 37.00	
DIX		91.55	44 ePd	15 19.00	0.3	BHG	95.54	43 iPc	15 37.20	0.5			e	31 31.00	
ENN		91.63	39 ePd	15 18.50	-0.1		1.3s	135.00nm		6.2mb			e	36 36.00	
		1.1s	158.00nm		6.1mb	KBA	95.76	43 iPd	15 37.80	-0.1	ADE	125.41	214 iPKPd	21 12.70	-0.2
MEM		91.65	39 Pc	15 19.20	0.6		0.8s	54.50nm		6.1mb		0.9s	104.20nm		
FIN		91.71	46 P	15 18.46	-0.7			i	15 41.20		OLP	127.69	225 iPKPd	21 18.00	0.5
COL		91.75	336 ePd	15 18.60	-0.3			i	16 33.20		MAIO	130.89	50 iPKPd	21 23.40	0.0
			epPc	15 52.04	129kmX	DUI	95.80	49 P	15 38.80	0.7		1.1s	26.50nm		
FBA		91.75	336 ePd	15 18.00	-0.9	TRI	95.85	45 eP	15 37.30	-0.8			e	24 37.00	
		0.8s	175.86nm		6.3mb	VOY	95.99	44 iPd	15 39.10	0.2	KUSJ	132.28	321 PKP	21 24.70	-0.9
			epP	15 53.80	139kmX	CLL	96.13	39 iPd	15 39.60	0.4	ASAJ	132.96	323 PKP	21 27.20	0.3
			esP	16 18.20			1.1s	42.00nm		5.8mb	OIS	134.75	228 iPKPd	21 30.20	-0.8
			ePP	18 52.80		KHC	96.20	41 iPc	15 40.40	0.7		0.8s	105.00nm		
MOF		91.75	42 P	15 19.02	-0.3		1.0s	17.50nm		5.5mb	ASPA	136.55	220 ePKP	21 19.40	-15.0X
CKI		91.81	45 P	15 19.30	-0.3			e	15 45.70			0.7s	8.50nm		
ECH		91.85	41 P	15 19.53	-0.2	RIY	96.24	45 eP	15 39.80	0.0	KLB	137.16	196 ePKP	21 22.00	-13.3X
ORO		91.85	44 P	15 19.89	0.0	PRY	96.29	119 iPc	15 48.50	7.7X			e	21 34.00	
		0.2s	11.60nm		5.7mb		1.0s	50.00nm		6.0mb	IRK	137.63	1 ePKP	21 35.00	-0.6
BBS		91.92	42 P	15 19.95	-0.1	SGO	96.29	50 P	15 40.60	0.4		1.6s	*****nm		
MMK		91.92	44 ePd	15 21.20	0.8	MGR	96.42	50 P	15 41.10	0.3			e	22 07.00	
PGF		91.94	47 eP	15 19.90	-0.5	LJU	96.43	44 eP	15 40.50	-0.2			e	24 20.00	
		1.0s	30.00nm		5.5mb	NB2	96.51	29 P	15 41.70	0.9			e	24 52.00	
CDF		91.97	41 P	15 20.04	-0.3		1.1s	119.60nm		6.3mb	HIA	138.84	346 ePKPd	21 37.64	-0.3
PCP		92.02	45 P	15 19.90	-0.7	BRW	96.66	341 ePd	15 41.40	0.2			epPKPc	22 10.42	
WLS		92.02	41 P	15 20.18	-0.3	BRG	96.66	40 iP	15 42.40	0.8			iPP	24 28.57	
DAG		92.13	11 iPc	15 20.00	-0.4		1.2s	54.00nm		5.9mb			eHPP	24 29.12	
		0.8s	147.76nm		6.3mb			e	16 16.40		WB2	138.88	224 ePKP	21 24.00	-14.8X
GWf		92.31	41 P	15 21.92	0.1	VBY	96.87	45 ePd	15 43.40	0.7		0.5s	4.90nm		
FEL		92.33	42 eP	15 21.81	-0.3	PRU	96.93	41 eP	15 43.30	0.4	WB2	138.88	224 iPKP	21 38.20	-0.6
VAl		92.44	44 P	15 22.20	-0.2		1.2s	29.70nm		5.6mb			iPP	25 39.00	
BNS		92.45	39 iPd	15 22.30	0.0			e	15 54.10		KAKJ	138.88	315 ePKP	21 30.00	-8.3X
		1.2s	79.00nm		5.8mb			e	16 16.50		QUE	138.92	55 ePKP	21 39.90	1.0
WTS		92.45	38 iPd	15 23.20	0.9	TDS	96.96	51 P	15 43.50	0.3			e	22 14.90	
		0.7s	88.00nm		6.1mb	SLR	97.28	118 iPd	15 41.00	-4.2X			ePKS	25 17.40	
ZLA		92.50	42 ePd	15 22.60	-0.2		1.0s	40.00nm		5.9mb	NIJ	139.13	317 ePKP	21 29.10	-9.6B

MDJ	139.45	333	ePKP	21	38.50	-0.6	BAG	163.73	295	ePKP	22	14.00	-0.6	37.056 N ± 11.4km	71.712 E ± 8.3km
CHJJ	139.77	316	PKP	21	31.20	-8.8X	KMI	164.56	9	PKPd	22	15.50	0.2	DEPTH = 72.5 ± 19.2 km	
MAT	140.04	317	ePKP	21	31.00	-9.4X				pPKP	22	50.00		4.2mb (9 obs.)	
	0.8s								PP	26	53.50		AFGHANISTAN-USSR BORDER REGION	(717)	
MTMJ	140.29	317	PKP	21	32.40	-8.6X	OIZ	169.81	335	PKP	22	20.10	1.2	QUE	7.92 211 iPc 47 17.10 -0.2
TSRJ	142.10	317	ePKP	21	39.70	-4.4X	BDT	170.39	39	ePKP	22	19.70	0.5		eS 48 41.30
TSRJ	142.10	317	PKP	21	41.50	-2.6X		0.9s	86.00nm						48 41.36 0.6
WMQ	142.80	21	ePKPd	21	40.41	-4.8X	IPM	173.31	140	ePKPc	22	20.70	0.1	GKN	14.14 126 P 48 41.36 0.6
			epPKPc	22	13.84			1.1s	111.10nm					KKN	14.70 125 P 48 48.34 0.2
			ePP	24	50.84		SNG	174.69	119	ePKP	22	21.00	0.0	DMN	14.71 126 P 48 48.62 0.4
WKYJ	143.11	316	PKP	21	42.10	-3.9X				e	23	46.30			0.3s 7.00nm 4.4mb
YONJ	143.96	319	iPKP+	21	44.40	-2.9X				e	24	44.10		PKI	14.94 125 P 48 50.74 -0.5
SNY	144.26	336	iPKPd	21	44.00	-3.6X				e	27	46.60		GUN	15.02 123 P 48 51.42 -0.9
			pPKP	22	18.00					e	31	09.10		GBA	23.91 166 Pc 50 31.60 1.1
TKSJ	144.29	317	PKP	21	46.40	-1.5		S.D. = 0.9	on 418 of 448 obs.						0.4s 1.70nm 3.8mb
SHK	144.87	319	ePKP	21	47.00	-1.9								HFS	42.99 321 eP 53 15.30 -0.4
KNA	145.59	223	ePKP	21	49.90	-0.6									0.3s 1.40nm 4.3mb
MBL	146.09	205	iPKPd	21	50.90	-0.4								NB2	44.28 323 P 53 26.20 -0.1
	1.0s		662.00nm												0.5s 0.80nm 3.8mb
DL2	147.53	336	iPKPd	21	54.00	0.9								MBC	66.76 3 ePc 56 08.50 1.0
NDI	147.64	51	iPKPd	21	53.00	-0.6									0.7s 6.00nm 4.6mb
	1.0s		120.00nm				HSO	3.38	85 P	44	20.59	-0.6	INK	73.27 10 eP 56 48.00 0.9	
POO	148.34	71	iPKPd	21	53.80	-1.2	KMOR	3.82	51 P	44	26.85	-0.6	FBA	73.78 16 eP 56 50.00 -0.2	
	1.0s		294.00nm						S	45	09.82			0.9s 0.40nm 3.3mb	
BJI	148.36	344	ePKPd	21	54.43	0.1	NLO	4.13	46 P	44	31.69	0.0	YKA	80.66 3 eP 57 27.70 -0.6	
			ePKPab21	57.08					S	45	18.41			0.5s 0.80nm 3.9mb	
			epP'df22	28.69			GT2	4.33	63 P	44	34.83	0.1	WB2	81.81 122 iPd 57 34.30 -0.7	
			ec	22	31.51		PGO	4.35	58 P	44	35.28	0.4		0.3s 8.50nm 5.2mb	
			ePP	25	24.00		BMW	4.50	44 P	44	36.39	-0.7	ASPA	84.10 125 iPd 57 46.10 -0.6	
HHC	148.57	351	PKPc	21	56.00	1.1	RVW	4.55	49 P	44	37.74	0.1		0.6s 3.40nm 4.6mb	
BTO	149.03	353	PKP	21	55.50	-0.1	VLM	4.64	59 P	44	39.52	0.4		S.D. = 0.7	on 15 of 15 obs.
			pPKP	22	33.00		LVP	4.69	52 P	44	39.99	0.2			
GTA	150.10	9	iPKPd	21	57.10	-0.2	VBEM	4.75	66 P	44	41.10	0.4			
			pPKP	22	36.00		MTMW	4.78	53 P	44	41.19	0.1			
TIY	151.46	348	iPKPd	22	00.00	0.7				S	45	34.95			APR 09, 1991 06h 53m 02.67± 1.00s
Z	22s		0.78um			5.5mszx	FL2	4.79	51 P	44	41.71	0.4			39.435 N ± 10.3km 31.143 E ± 6.8km
			PP	25	43.00		CZM	4.85	48 Pd	44	41.96	-0.1			DEPTH = 10.0km (geophysicist)
TIA	151.59	340	PKPd	21	59.10	-0.3	OBH	4.86	33 P	44	42.13	0.1	TURKEY		(366)
GBA	152.46	79	PKPc	22	01.80	0.6	SHW	4.86	52 P	44	42.71	0.5		MD 2.8 (ISK).	
	1.2s		125.80nm				ERK	4.86	50 P	44	42.18	-0.1	ALT	0.89 245 iPg 53 19.40 -0.4	
KOD	152.59	87	iPKPd	22	02.50	0.7	HSR	4.88	52 P	44	43.07	0.5		eSg 53 32.40	
HYB	152.95	71	iPKPd	22	01.70	-0.2	JLK	4.88	52 P	44	42.74	0.2	GPA	1.07 323 ePn 53 22.30 -0.5	
	1.0s		125.00nm				CPW	4.90	40 P	44	41.99	-0.7	BBTK	1.31 71 eP 53 27.00 0.0	
			i	22	20.80		ESD	4.91	52 P	44	43.38	0.4		eSg 53 45.00	
			i	22	44.00		VFP	4.92	64 P	44	43.92	0.8	EYL	1.36 327 iPn 53 28.40 0.7	
KUPT	153.09	223	ePKP	22	04.00	1.9X	SOSW	4.94	52 P	44	43.71	0.3	IZI	1.57 306 iPn 53 30.30 -0.4	
	1.0s		277.40nm				APM	4.95	58 P	44	43.83	0.3	YLV	1.77 310 ePn 53 33.40 -0.2	
GKN	153.43	44	PKP	22	01.50	-1.0	TDL	4.96	50 P	44	43.80	0.1	DST	1.95 276 ePn 53 37.00 0.8	
	1.1s		282.00nm						S	45	40.32			S.D. = 0.6	on 7 of 7 obs.
LZH	153.79	3	ePKPd	22	02.84	0.1	KOSW	5.04	49 P	44	45.08	0.4			
			ePKPbc22	10.62			GULW	5.10	57 P	44	46.03	0.5			& APR 09, 1991 07h 51m 20.10s
			ePKPob22	23.20			LMW	5.11	47 P	44	45.78	0.0			33.470 N 118.260 W
DMN	154.00	44	PKP	22	03.00	-0.4	CROR	5.13	69 P	44	45.38	-0.6			DEPTH = 7.0km
KKN	154.00	44	PKP	22	03.00	-0.3	ASR	5.21	55 P	44	47.36	0.2			SOUTHERN CALIFORNIA
	0.8s		171.00nm				VIPM	5.27	74 P	44	47.66	-0.4			<PAS-P>. ML 3.5 (PAS).
SSE	154.16	327	iPKPd	22	03.50	0.4	LON	5.42	48 P	44	50.38	0.2	CIS	0.14 242 iPd 51 23.10 0.0	
	Z	20s	0.50um			5.3msz	GLK	5.43	51 P	44	50.53	0.3		eS 51 25.50	
	N	12s	0.30um				VGB	5.44	64 P	44	50.27	-0.2	FMA	0.24 355 iPd 51 24.81 -0.3	
	E	12s	0.30um				RVC	5.46	46 P	44	50.99	0.3		eS 51 28.76	
			e	22	25.00		GMW	5.48	38 P	44	50.50	-0.5	PVPS	0.34 339 iPd 51 26.42 -0.5	
			pPKP	22	38.00		WPW	5.54	50 P	44	51.92	0.1		eS 51 31.43	
PKI	154.23	44	PKP	22	03.00	-0.8	GL2	5.59	59 Pc	44	52.42	-0.2	VPD	0.54 50 ePd 51 30.00 -0.9	
	1.1s		182.00nm				FMW	5.61	48 P	44	52.97	0.0	SCI	0.54 206 iPd 51 30.90 -0.1	
GUN	154.33	43	PKP	22	03.64	-0.3				S	45	55.24		SCY	0.65 346 eP 51 32.27 -1.0
	0.9s		107.00nm				GSM	5.72	45 P	44	54.56	0.2	PEM	0.77 25 eP 51 33.86 -1.5	
NJ2	154.54	332	PKPc	22	03.80	0.2	RMW	5.88	43 P	44	56.56	-0.1	MWC	0.77 13 iPd 51 34.20 -1.3	
	7.0s		400.00nm				NAC	5.97	52 P	44	58.02	0.2	PEC	1.01 65 eP 51 37.50 -2.0	
			e	22	26.00		JBO	6.05	66 P	44	58.47	-0.4	CPE	1.14 121 eP 51 39.60 -2.1	
			sPKP	22	47.00		HTW	6.14	41 P	45	00.15	-0.1	PLM	1.18 95 iPc 51 40.90 -1.6	
			PP	26	02.00		MXC	6.20	56 P	45	00.92	-0.2	SBB	1.27 16 eP 51 43.10 -0.9	
XAN	155.64	353	PKP	22	05.20	0.1	EBG	6.21	52 P	45	01.47	0.2	ABL	1.59 330 eP 51 46.80 -2.1	
			e	22	31.50		TBM	6.34	50 P	45	03.52	0.4	BLP	2.08 302 eP 51 53.50 -2.4	
			pPKP	22	42.00		JCW	6.35	38 P	45	03.06	-0.1	BCH	2.28 319 eP 51 56.00 -2.9	
			sPKP	22	51.00				S	46	13.36		GLA	2.91 97 e(P) 52 05.00 -2.7	
LSA	156.18	32	iPKP	22	07.00	0.5	MDW	6.54	57 P	45	05.62	-0.3	BONR	4.48 360 e(P) 52 28.50 -1.7	
WHN	157.69	339	PKPc	22	08.50	0.7	RSW	6.55	59 P	45	05.65	-0.5		17 obs. associated	
	4.0s		400.00nm				GBL	6.72	58 P	45	08.15	-0.3			
			e	22	40.00		RPW	6.73	38 P	45	07.92	-0.6			
			PP	26	19.00		ETW	6.74	48 P	45	08.77	-0.1			
CD2	158.94	4	iPKPc	22	10.30	1.1	CRF	6.87	56 P	45	10.18	-0.3			? APR 09, 1991 08h 58m 01.47± 6.01s
			pPKP	22	45.00		RC1	6.90	55 P	45	10.80	-0.1			31.493 S ± 27.8km 68.675 W ± 20.6km
TRT	161.15	203	ePKPd	22	09.00	-2.9	PNT	8.22	40 iP	45	28.00	-1.4			DEPTH = 92.6 ± 54.1 km
	0.6s		61.00nm				YKA	20.71	17 eP	48	10.50	0.6			SAN JUAN PROVINCE, ARGENTINA
GYA	163.37	356	iPKPc	22	14.00	0.0				0.4s	0.10nm	2.5mb			(137)
			pPKP	22	48.80					S.D. = 0.4	on 56 of 56 obs.		RTCB	0.11 274 iPc 58 15.20 0.1	
			e	23	05.60									S 58 26.30	
			PP	26	49.00								RTLL	0.24 47 iPd 58 15.30 -0.1	
														S 58 25.60	
													CFA	0.39 107 ePc 58 16.00 0.0	

RTBS 0.69 256 eS 58 28.50
 RTRS 1.48 333 iPc 58 18.20 -0.1
 (S) 58 27.50 0.0
 (S) 58 48.00
 S.D. = 0.2 on 5 of 5 obs.

% APR 09, 1991 09h 03m 43.93 ± 0.78s
 43.083 N ± 18.4km 0.597 W ± 6.1km
 DEPTH = 10.0km (geophysicist)
 PYRENEES (378)
 MD 1.0 (STR).

ESCF 0.02 107 Pg 03 45.39 -0.5
 ATE 0.08 272 Pg 03 45.76 -0.6
 Sg 03 48.01
 ISSF 0.16 249 Pg 03 47.66 0.0
 JAU 0.17 105 Pg 03 48.38 0.4
 MADF 0.17 291 Pg 03 47.58 -0.3
 ELYF 0.30 287 Pg 03 51.11 0.9
 S.D. = 0.8 on 6 of 6 obs.

APR 09, 1991 09h 07m 52.17 ± 0.30s
 15.880 N ± 5.5km 92.107 W ± 4.6km
 DEPTH = 219.2km (7 depth phases)
 4.7mb (16 obs.)
 MEXICO-GUATEMALA BORDER REGION (62)
 Felt in southern Chiopos.
 Mexico.

TPX 0.98 189 iP 08 23.04 -1.0
 iS 08 46.69

SCX 0.99 329 iP 08 25.45 1.4
 iS 08 50.76

OXX 4.59 286 iP 09 02.10 -0.6
 (S) 09 45.30

LVVM 5.64 313 (P) 09 14.64 -1.1
 iS 09 17.65 -1.5

IIT 6.69 299 iP 09 30.47 0.9
 iS 10 10.48

PPM 6.98 298 iP 09 34.75 1.2
 iS 10 52.25

IIA 7.04 298 iP 09 34.73 0.9
 iS 09 40.18 0.7

III 7.46 290 iP 09 40.18 0.7
 iS 11 01.98

ACX 7.50 279 iP 09 39.11 -0.7
 iS 11 02.42

UNM 7.57 298 (P) 09 41.50 0.5
 CRX 8.03 297 (P) 09 36.19 -10.8X

MRX 9.45 295 iP 10 07.33 2.3
 ECO 13.73 117 eP 11 01.50 2.2

UPA 14.06 118 iP 11 04.90 1.6
 1.1s 121.52nm 5.2mb

OLY 19.55 2 eP 12 06.00 0.9
 e 12 11.30 21kmX

e 12 22.20
 PRM 20.14 24 ePd 12 22.30 1.3

RSCP 20.49 15 eP 12 14.40 -0.1
 JSC 20.76 26 ePd 12 18.60 1.5

ELC 21.47 6 ePd 12 23.80 -0.3
 FVM 22.07 4 eP 12 28.50 -1.3

ALO 22.93 328 eP 12 38.90 0.4
 1.0s 17.00nm 4.6mb

ANMO 22.94 329 P 12 39.20 0.7
 NAV 23.59 23 ePc 12 45.60 1.1

BLA 23.64 24 ePc 12 47.80 2.8
 e 12 51.20 12kmX

CVL 25.09 26 ePc 12 59.70 1.3
 GOL 26.41 337 eP 13 09.50 -1.2

0.9s 25.00nm 4.9mb
 GLA 26.73 314 eP 13 14.00 0.5

CLE 27.11 18 iP 13 17.20 0.6
 BAR 27.84 311 eP 13 24.00 0.6

TPC 28.17 314 eP 13 27.00 0.6
 PLM 28.33 312 eP 13 29.00 1.0

MSU 28.63 326 iPd 13 30.70 0.1
 PEC 28.83 313 iPd 13 32.20 0.0

e 14 16.30 220km
 GSC 29.36 316 eP 13 38.00 1.1

MWC 29.63 313 eP 13 40.00 0.5
 PAS 29.67 313 eP 13 40.00 0.4

SBB 29.72 314 eP 13 40.00 0.0
 RSSD 29.92 343 ePd 13 40.80 -1.1

0.7s 21.19nm 4.9mb
 epP 14 26.00 225km

ISA 30.69 315 eP 13 49.00 0.4

SYP 31.15 312 eP 13 53.00 0.3
 TNP 31.28 320 iPd 13 53.90 0.1
 0.8s 11.52nm 4.6mb

BONR 31.88 319 iPd 14 00.20 1.0
 RSNY 32.21 24 eP 14 02.30 0.6

0.7s 10.38nm 4.6mb
 pP 14 42.00 191kmX

FRI 32.25 316 eP 14 01.70 -0.3
 KVN 32.42 320 iPd 14 04.30 0.6

PRI 32.45 314 eP 14 04.70 0.8
 GAC 32.84 22 eP 14 08.50 1.5

LLA 32.89 314 ePd 14 07.30 -0.3
 PRS 33.04 314 eP 14 08.80 -0.1

CMB 33.27 317 ePd 14 11.30 0.4
 eP*P* 43 01.30

ARN 33.67 315 eP 14 14.80 0.5
 LRM 34.38 334 ePd 14 20.40 -0.1

e 15 05.80 220km
 ORV 34.85 318 eP 14 25.00 0.8

WDC 36.08 319 eP 14 32.30 -2.2
 eP*P* 43 01.50

LBFM 36.12 321 ePd 14 35.20 0.1
 FHC 37.12 318 eP 14 44.70 1.4

SES 37.67 340 ePd 14 47.40 -0.4
 ARE 38.03 147 iPc 14 53.00 1.5

NEW 38.28 333 P 14 52.10 -0.8
 pP 15 38.50 221km

DPW 38.47 332 ePd 14 53.80 -0.7
 LON 39.45 328 eP 15 01.90 -0.6

FFC 39.51 351 iPd 15 01.80 -1.1
 0.4s 6.00nm 4.5mb

ZOBO 39.76 142 iPc 15 06.10 0.1
 LPB 39.98 143 P 15 08.00 0.4

BMW 40.01 326 ePc 15 07.30 0.1
 PNT 40.17 332 ePd 15 08.00 -0.4

0.8s 21.00nm 4.7mb
 CNCB 40.27 143 iPc 15 10.70 0.6

GMW 40.47 328 eP 15 10.00 -0.9
 EDM 40.83 341 iPd 15 13.40 -0.4

CCH 41.80 141 P 15 24.40 2.0
 SCH 43.51 21 eP 15 35.00 -0.5

YKA 49.18 346 eP 16 17.20 -2.4
 0.8s 27.20nm 4.7mb

FRB 50.52 13 eP 16 28.00 -1.7
 BAO 53.64 124 ePc 16 51.30 -2.4

PPD 54.93 132 eP 17 00.60 -2.2
 INK 58.62 343 eP 17 26.80 -1.3

pP 18 18.00 226km
 VAO 58.68 130 eP 17 27.40 -1.8

e 18 15.50 211km
 TOA 59.63 334 eP 17 35.60 0.4

PMR 60.71 333 eP 17 42.20 -0.2
 0.8s 14.70nm 4.7mb

FBA 61.49 336 eP 17 46.70 -0.9
 0.9s 8.80nm 4.5mb

PcP 18 26.20
 pP 18 35.70 213km

MBC 62.04 353 ePd 17 50.00 -1.1
 0.8s 10.00nm 4.6mb

SVW 63.50 331 eP 17 59.90 -1.0
 TTA 64.19 333 ePd 18 04.20 -1.2

1.0s 17.90nm 4.8mb
 ANM 68.60 334 eP 18 33.00 0.0

ADK 74.35 320 P 19 06.00 -1.3
 EKA 76.51 326 P 19 18.00 -1.3

2.4s 72.70nm 5.0mb
 NB2 82.55 29 P 19 51.60 0.1

0.7s 1.10nm 3.7mb
 HFS 84.02 29 eP 19 56.80 -2.0

0.6s 1.60nm 4.0mb
 LKO 84.12 82 P 19 58.62 -1.6

WB2 135.71 258 ePKP 26 48.80 -0.1
 0.4s 3.50nm

S.D. = 1.1 on 90 of 91 obs.

% APR 09, 1991 09h 26m 29.95 ± 0.88s
 39.106 N ± 7.2km 27.636 E ± 9.1km

DEPTH = 10.0km (geophysicist)
 TURKEY (366)

MD 2.7 (ISK).

Izm 0.76 203 ePg 26 44.80 -0.1
 DST 0.92 57 ePn 26 47.80 0.3

EZN 1.24 306 ePn 26 53.30 0.3
 EDC 1.25 8 ePn 26 53.00 -0.2

BNT 1.27 10 ePn 26 53.30 -0.2
 S.D. = 0.4 on 5 of 5 obs.

? APR 09, 1991 09h 31m 25.76 ± 0.66s
 14.605 S ± 24.6km 176.172 W ± 21.0km
 DEPTH = 33.0km (normal)
 4.8mb (9 obs.) 4.8MsZ (1 obs.)

FIJI ISLANDS REGION (181)
 CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
 L.P.B.: 14S, 29C

Centroid Location:
 Origin Time 09:31:29.4 1.5

Lat 14.355 0.17 Lon 176.11W 0.08
 Dep 15.0 FLX Half-duration 1.6

Moment Tensor: Scale 10¹⁶ Nm
 Mrr=-2.76 0.49 Mtt= 0.75 0.87

Mff= 2.01 0.85 Mrt= 0.00 0.00
 Mrf= 0.00 0.00 Mtf= 7.01 0.46

Principal Axes:
 T Val= 8.42 Plg= 0 Azm=132

N -2.76 90 180
 P -5.65 0 42

Best Double Couple: Mo=7.0*10¹⁶
 NP1: Strike=177 Dip=90 Slip=-180

NP2: 267 90 0

DZM 18.08 243 iPc 35 36.60 0.3
 HNR 23.91 280 eP 36 45.00 7.3X

eS 41 06.00
 SVO 24.11 280 P 36 48.00 8.4X

WB2 47.41 256 iPc 39 51.10 -8.2X
 1.0s 5.90nm 4.6mb

e 40 00.40
 ASPA 47.82 251 eP 39 58.50 -4.0X

0.7s 13.00nm 5.1mb
 Z 23s 0.50um 4.4MsZ

MTN 51.13 265 iPc 40 23.30 -4.6X
 PLM 73.95 48 eP 43 09.00 8.9X

CMB 73.97 43 P 43 01.30 1.3
 ISA 73.99 46 eP 43 03.00 2.9X

CLC 74.68 46 eP 43 09.00 4.9X
 TPC 74.91 48 eP 43 03.00 -2.5X

GSC 74.97 47 eP 43 07.00 1.2
 SPA 75.49 180 iPd 43 08.10 -0.3

1.0s 10.00nm 4.8mb
 TNP 76.11 44 P 43 10.00 -2.4

SVW 77.22 10 P 43 19.30 1.4
 1.0s 15.00nm 5.0mb

PNT 80.81 34 eP 43 38.00 0.4
 FBA 82.14 12 P 43 43.50 -0.7

1.0s 20.00nm 5.1mb
 ALO 82.36 51 eP 43 45.00 -1.3

1.2s 7.03nm 4.6mb
 ANMO 82.37 51 eP 43 47.00 0.7

1.5s 13.89nm 4.8mb
 BJI 82.99 314 eP 43 48.00 -1.1

BW06 83.49 43 P 43 51.00 -0.9
 SES 86.10 36 eP 44 06.00 1.4

RSSD 87.70 43 P 44 12.00 0.1
 1.0s 4.88nm 4.7mb

INK 88.16 15 eP 44 13.00 -1.1
 YKA 90.45 24 eP 44 21.70 -3.3X

0.9s 0.90nm 4.1mb
 KHC 144.65 349 PKP 50 56.50 -4.2X

e 51 07.00
 ZST 144.75 345 ePKP 51 02.30 1.5

SRO 144.77 343 ePKP 51 04.20 3.3X
 FLN 145.76 5 ePKP 51 00.60 -1.9

1.2s 41.65nm
 Z 20s 12.00um 6.7MsZ

LDF 145.95 5 ePKP 51 01.30 -1.6
 0.8s 10.75nm

CDF 146.17 356 ePKP 51 06.30 2.9X
 LPF 146.43 6 ePKP 51 04.90 1.2

1.3s 43.30nm
 HAU 146.63 357 ePKP 51 05.80 1.8

Z 20s 189.00um 7.9MsZ
 LOR 147.44 360 ePKP 51 09.70 4.4X

Z 20s 0.17um 4.8MsZ
 SSF 147.64 0 ePKP 51 08.40 2.7X

1.2s 19.35nm
 LBF 147.72 360 ePKP 51 08.50 2.7X

1.5s 31.35nm
 AVF 147.91 1 ePKP 51 11.10 5.0X

1.2s 13.40nm
 SMF 148.06 360 ePKP 51 12.10 5.7X

BGF 148.14 1 ePKP 51 12.00 5.5X
 1.2s 26.80nm

09d 09h

TCF 148.39 2 ePKP 51 12.90 6.0X
 SKO 148.76 334 ePKP 51 13.70 6.1X
 LPL 149.09 356 ePKP 51 15.30 7.0X
 LPG 149.11 356 ePKP 51 15.60 7.2X
 RJF 149.34 3 ePKP 51 18.70 10.3X
 1.5s 31.35nm
 Z 20s 1.40um 5.8mszX
 PGF 151.80 352 ePKP 51 20.50 8.2X
 1.1s 12.20nm
 S.D. = 1.4 on 20 of 45 obs.

? APR 09, 1991 09h 40m 24.13± 6.68s
 32.333 S ± 43.1km 71.755 W ± 27.8km
 DEPTH = 10.0km (geophysicist)
 NEAR COAST OF CENTRAL CHILE (135)

ROCH 0.89 136 iPd 40 41.50 0.1
 iS 40 52.50
 JACH 1.04 110 iPd 40 44.00 0.1
 iS 40 58.00
 LCCH 1.15 172 eP 40 46.00 0.4
 iS 41 02.00
 PEL 1.21 132 iPd 40 46.20 -0.5
 iS 41 01.20
 TACH 1.49 153 eP 40 51.20 0.3
 iS 41 10.40
 LNV 1.64 170 eP 40 52.50 -0.6
 i 41 11.20
 i 41 15.40
 PCH 1.65 141 iPc 40 53.70 0.3
 iS 41 15.40
 S.D. = 0.5 on 7 of 7 obs.

APR 09, 1991 10h 04m 09.90± 0.75s
 21.548 N ± 9.4km 121.850 E ± 7.1km
 DEPTH = 10.0km (geophysicist)
 4.5mb (8 obs.) 4.0msz (1 obs.)
 TAIWAN REGION (243)
 ML 4.2 (BJI).

TWG 1.46 330 eP 04 35.30 -0.9
 eS 04 50.50
 TWf1 1.87 344 eP 04 41.50 -0.7
 OZH 4.52 319 ePn 05 20.00 0.1
 Sn 06 10.50
 HKC 7.17 277 eP 05 55.00 -2.3
 iS 07 19.20
 GZH 8.02 283 Pd 06 11.00 1.7
 SSE 9.53 357 e(P) 06 55.00 24.9X
 Z 20s 0.50um
 N 10s 0.20um
 (Lg) 09 00.00
 pP 19 53.50
 eS 28 46.00
 NJ2 10.80 346 eP 06 41.50 -6.0X
 Z 14s 0.40um
 N 12s 0.50um
 E 11s 1.10um
 OIZ 11.54 260 eP 06 57.10 -0.7
 N 14s 1.30um
 GYA 14.71 292 P 07 40.00 0.0
 XAN 16.88 320 eP 08 08.00 0.1
 N 10s 0.40um
 TIY 18.05 335 eP 08 18.00 -3.7X
 CD2 18.70 304 P 08 32.50 2.0
 E 11s 0.70um
 PP 08 38.00
 BJI 19.06 347 P 08 36.00 1.2
 Z 16s 0.58um
 SNY 20.27 4 P 08 47.80 -0.5
 MTMJ 20.42 39 P 08 51.20 1.1
 MAT 20.64 40 eP 08 52.00 -0.2
 0.9s 25.21nm 4.6mb
 CHJJ 20.80 42 eP 08 53.90 0.1
 HHC 21.13 338 eP 08 57.00 -0.3
 LZH 21.37 317 P 09 02.00 2.2X
 2.0s 96.00nm 4.8mb
 Z 20s 0.63um 4.0msz
 E 10s 0.30um
 PP 09 10.50
 SP 09 14.50
 BTO 21.49 335 eP 09 01.00 0.1
 N 14s 0.60um
 E 14s 0.30um
 CN2 22.39 7 eP 09 10.60 0.8
 Z 15s 1.20um 4.4mszX
 N 13s 0.30um

E 13s 0.30um
 ePP 09 18.00
 eS 13 10.00
 GTA 25.92 318 eP 09 44.00 -0.1
 1.6s 20.00nm 4.6mb
 Z 27s 1.00um 4.2mszX
 E 15s 0.70um
 PP 09 50.20
 IPM 26.32 233 ePc 09 54.20 6.4X
 GUN 33.20 288 P 10 50.60 1.1
 0.8s 19.00nm 5.1mb
 PKI 33.60 288 P 10 54.00 1.0
 KKN 33.72 288 P 10 51.80 -2.1
 DMN 33.87 288 P 10 56.40 1.2
 GKN 34.30 288 P 10 59.40 0.6
 WMO 35.95 316 eP 11 11.50 -1.1
 YAK 40.80 6 eP 11 56.00 3.2X
 WB2 43.01 163 eP 12 07.60 -3.8X
 0.6s 4.10nm 4.3mb
 ASPA 46.45 165 eP 12 39.60 0.7
 0.9s 5.00nm 4.5mb
 FBA 70.87 27 eP 15 28.80 0.1
 0.9s 0.40nm 3.5mb
 INK 75.43 22 eP 15 45.00 -10.4X
 YKA 85.15 23 eP 16 44.40 -2.9
 0.9s 0.90nm 4.0mb
 S.D. = 1.2 on 27 of 35 obs.

* APR 09, 1991 10h 46m 13.82± 0.77s
 52.177 N ± 16.6km 169.540 W ± 8.8km
 DEPTH = 33.0km (normal)
 4.6mb (16 obs.)
 FOX ISLANDS, ALEUTIAN ISLANDS (9)

ADK 4.42 269 eP 47 19.50 -0.8
 SDN 6.23 56 eP 47 46.50 0.7
 PDB 11.47 42 eP 48 58.50 0.4
 KLU 15.85 45 eP 49 52.50 -3.4X
 TOA 16.02 43 eP 49 56.30 -1.7
 IMA 16.05 24 eP 50 02.50 4.0X
 FBA 16.94 33 eP 50 08.50 -1.1
 INK 23.57 33 eP 51 22.00 0.3
 YKA 30.45 49 eP 52 24.10 -1.0
 0.6s 1.70nm 4.0mb
 SES 35.77 69 eP 53 11.00 -0.4
 MAT 39.58 268 eP 53 44.00 0.5
 0.7s 3.42nm 4.2mb
 FRB 49.20 35 eP 55 00.00 -0.1
 WHN 58.27 280 eP 56 06.60 -0.7
 SOD 60.16 353 iP 56 19.70 -0.2
 CD2 64.33 288 P 56 48.00 -0.3
 KAF 65.37 352 iP 56 53.80 -0.7
 0.5s 9.60nm 5.2mb
 GYA 65.87 282 P 56 58.20 -0.2
 NUR 67.09 352 iP 57 05.20 -0.3
 0.6s 14.30nm 5.2mb
 NB2 67.13 360 P 57 05.50 -0.3
 0.7s 3.20nm 4.5mb
 HFS 68.01 358 eP 57 10.00 -1.3
 0.4s 3.60nm 4.8mb
 GUN 76.72 298 P 58 03.78 0.0
 KKN 77.14 299 P 58 06.18 0.3
 0.5s 7.00nm 5.0mb
 PKI 77.24 298 P 58 06.62 0.0
 GKN 77.32 299 P 58 06.82 0.0
 0.5s 14.00nm 5.2mb
 DMN 77.38 299 P 58 07.54 0.3
 HAU 80.14 3 eP 58 23.00 1.4
 0.7s 2.20nm 4.3mb
 BSF 80.32 3 eP 58 24.00 1.3
 0.7s 4.40nm 4.6mb
 SSF 80.96 5 eP 58 28.20 2.2
 0.6s 3.15nm 4.5mb
 LBF 81.06 4 eP 58 26.70 0.1
 0.6s 1.80nm 4.2mb
 KBA 81.09 358 eP 58 22.00 -4.9X
 0.7s 5.70nm 4.7mb
 i 58 28.80
 i 59 11.70
 AVF 81.22 5 eP 58 28.40 1.1
 0.6s 2.25nm 4.3mb
 SMF 81.39 5 eP 58 29.30 1.0
 0.6s 3.60nm 4.6mb
 ASPA 90.19 230 iPd 59 11.20 -0.7
 0.6s 6.30nm 5.1mb
 S.D. = 0.9 on 30 of 33 obs.

% APR 09, 1991 12h 47m 15.96± 0.84s
 40.797 N ± 4.5km 27.893 E ± 7.4km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.8 (ISK).

BNT 0.44 177 ePg 47 24.30 -0.7
 EDC 0.45 183 ePg 47 25.00 -0.1
 CTT 0.54 49 iPg 47 26.20 -0.6
 ISK 0.92 73 ePg 47 33.20 -0.4
 DMK 1.03 354 iPg 47 35.80 0.4
 iSg 47 48.80
 YLV 1.15 101 ePn 47 37.70 0.2
 IZI 1.29 110 ePn 47 40.20 0.3
 DST 1.32 154 ePn 47 41.00 0.7
 HRT 1.35 88 ePn 47 41.00 0.2
 S.D. = 0.5 on 9 of 9 obs.

% APR 09, 1991 12h 49m 44.59± 0.50s
 42.747 N ± 4.4km 19.164 E ± 4.2km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)
 ML 1.3 (TTG).

NKY 0.14 298 iPg 49 48.24 0.3
 iSg 49 51.35
 TTG 0.33 167 iPg 49 51.45 0.1
 iSg 49 57.00
 BRY 0.48 289 iPg 49 54.17 -0.2
 iSg 50 01.74
 BDV 0.53 208 iPg 49 54.99 -0.2
 iSg 50 03.22
 IVA 0.55 77 iPg 49 55.89 0.0
 iSg 50 05.10
 HCY 0.58 239 iPg 49 55.95 -0.3
 iSg 50 04.67
 PLE 0.61 16 iPg 49 57.17 0.3
 PVY 0.62 104 iPg 49 56.52 -0.6
 iSg 50 06.59
 ULC 0.79 175 iPg 50 08.57 0.7
 iSg 50 11.52
 S.D. = 0.4 on 9 of 9 obs.

& APR 09, 1991 13h 15m 35.04s
 61.338 N 151.450 W
 DEPTH = 68.2km
 SOUTHERN ALASKA (2)
 <AEIC>.

SPU 0.33 242 iPc 15 45.92 -0.6
 eS 15 54.79
 NCG 0.35 281 eP 15 45.99 -0.7
 eS 15 55.06
 CRP 0.35 258 iPc 15 46.40 -0.3
 S 15 55.45
 SUA 0.36 69 ePd 15 46.72 -0.1
 S 15 55.58
 CKL 0.45 252 iPc 15 46.96 -0.6
 BGL 0.46 261 ePc 15 46.87 -0.8
 eS 15 57.25
 NKA 0.61 170 iPc 15 50.12 1.2
 SKT 0.65 357 iPd 15 48.55 -0.9
 eS 15 59.60
 PWA 0.82 67 iPc 15 51.24 -0.1
 eS 16 03.60
 RDT 0.90 212 iPc 15 51.66 -0.8
 eS 16 05.21
 PMS 0.92 95 iPc 15 52.31 -0.4
 eS 16 06.07
 DFR 0.96 219 iPc 15 52.46 -0.9
 eS 16 06.72
 SLKM 1.03 144 ePd 15 53.11 -1.0
 RDN 1.05 218 iPc 15 53.50 -0.9
 REF 1.05 216 iPc 15 53.80 -0.7
 NCT 1.06 223 iPc 15 53.86 -0.8
 RDW 1.09 218 iPc 15 54.27 -0.7
 RS2 1.09 217 ePc 15 54.27 -0.8
 RSO 1.09 217 ePc 15 54.24 -0.8
 RED 1.13 216 ePc 15 54.58 -0.9
 eS 16 10.95
 PLRM 1.14 76 ePc 15 54.54 -1.0
 eS 16 10.51
 CUT 1.21 27 iPd 15 55.67 -0.7
 eS 16 12.14
 GH0 1.29 69 ePc 15 56.56 -1.0
 NNL 1.30 177 ePc 15 58.12 0.4
 KNK 1.44 86 iPc 15 58.44 -1.2

SEW	1.58	141	eP	16	01.28	-0.1
BRK	1.60	170	ePc	16	00.77	-1.0
			eS	16	22.90	
CNPM	1.82	177	ePc	16	03.80	-1.0
HUR	1.85	27	eP	16	04.98	-0.2
SVW	2.03	265	ePc	16	06.14	-1.6
SCM	2.03	74	eP	16	06.19	-1.6
PDB	2.06	222	ePc	16	06.41	-1.7
KNIM	2.07	117	eP	16	05.38	-2.9
GLI	2.16	100	ePd	16	06.71	-2.8
TRF	2.19	14	eP	16	09.10	-0.9
LTJ	2.20	125	eP	16	07.22	-2.7
MTU	2.31	124	eP	16	08.82	-2.7
RND	2.40	29	eP	16	11.61	-1.3
VLZ	2.48	93	ePc	16	11.25	-2.7
TOA	2.63	71	ePc	16	14.80	-1.2
CDD	2.65	205	eP	16	15.08	-1.3
KLU	2.66	84	ePc	16	13.87	-2.7
SYI	2.78	190	ePc	16	16.86	-1.2

43 obs. associated

? APR 09, 1991 14h 00m 14.89±3.12s
21.637 S ±23.9km 117.609 E ±23.0km
DEPTH = 10.0km (geophysicist)
3.5mb (1 obs.)
WESTERN AUSTRALIA (590)

MBL	2.13	77	iPd	00	50.90	0.0
			eS	01	19.00	
BAL	8.97	185	eP	02	28.00	0.6
	0.3s		7.00nm		5.6mb X	
			eS	04	11.40	
WARB	9.42	120	iPd	02	34.50	0.8
COOL	9.74	162	eP	02	38.50	0.4
	0.3s		3.00nm		5.2mb X	
			eS	04	31.00	
KLB	9.92	179	eP	02	40.30	-0.2
			eS	04	34.30	
MUN	10.38	187	eP	02	46.30	-0.5
			eS	04	44.70	
FORR	13.14	136	eP	03	23.00	-1.1
			eS	05	50.00	
WB2	15.75	87	eP	03	50.10	-8.4X
	0.6s		2.00nm		3.5mb	
			eS	06	39.00	

S.D. = 0.8 on 7 of 8 obs.

APR 09, 1991 15h 35m 21.40±0.75s
5.971 S ±5.0km 77.020 W ±8.8km
DEPTH = 36.9 ±7.2 km
4.7mb (18 obs.) 4.7msz (1 obs.)
NORTHERN PERU (111)

TUNG	4.74	342	eP	36	31.60	-1.2
QUIL	5.52	340	eP	36	46.70	3.0X
OUR	5.95	345	eP	36	51.70	1.8
GGP	5.97	345	eP	36	51.80	1.5
NNA	5.98	178	iPc	36	49.70	-0.3
	0.7s		10.27nm		4.5mb	
			iS	37	59.00	
YANA	6.02	345	eP	36	50.90	0.0
PT10	6.07	180	iPc	36	51.50	0.4
			iS	37	53.00	
CAYA	6.09	351	eP	36	52.20	0.3
HUA	6.26	165	iPc	35	55.50	-58.7X
			iS	37	46.00	
COTA	6.40	348	eP	36	58.50	2.2
PSO	7.12	358	eP	37	14.00	7.7X
BOG	10.93	16	eP	38	10.00	11.2X
			iS	41	04.00	
ARE	11.75	153	eP	38	11.00	1.1
FUO	11.83	16	eP	38	18.00	7.0X
ZOBO	13.44	140	P	38	31.00	-1.8

Z 19s

			LR	43	52.00	
LPB	13.66	141	eP	38	35.00	-0.4
	Z 20s		6.03um			
			i	38	45.00	
			LR	44	32.00	
CNCB	13.94	141	P	38	38.00	-1.3
			i	38	49.00	
UPA	15.06	350	iPc	38	54.00	0.6
	1.0s		40.00nm		4.6mb	
			i	39	07.40	
CCH	15.55	138	P	39	08.70	8.7X
TOV	17.23	25	eP	39	19.60	-1.5
CEOS	17.23	30	iP	39	20.50	-0.7

SIV	18.54	124	P	39	35.80	-1.5
GUAN	19.46	36	iP	39	48.90	0.6
PEL	27.67	169	ePd	41	09.00	0.9
VAO	33.55	123	(P)	42	08.00	7.8X
PDCR	37.94	103	eP	42	36.40	-1.1
CAI	39.64	93	eP	42	57.50	5.7X
JSC	40.23	355	P	42	55.00	-1.3
RSCP	42.12	350	P	43	12.00	0.1
OLY	43.43	343	P	43	23.00	0.5
CVL	43.75	358	P	43	24.00	-1.0
ALO	49.25	328	eP	44	07.90	-0.9
	0.8s		11.01nm		4.9mb	
ANMO	49.25	328	P	44	08.80	0.0
	0.8s		33.77nm		5.4mb	
MSU	54.98	327	P	44	50.90	-0.8
TNP	57.58	323	P	45	10.90	0.6
	0.6s		1.54nm		4.2mb	
KVN	58.74	323	P	45	17.40	-0.9
LBFM	62.44	323	P	45	42.00	-1.5
SES	63.37	336	eP	45	48.00	-1.3
FFC	63.96	344	eP	45	51.00	-2.1
	1.1s		13.00nm		4.9mb	
NEW	64.44	332	P	45	54.40	-1.9
	0.8s		6.25nm		4.7mb	
FRB	69.82	4	eP	46	29.00	-0.8
LKO	72.82	78	P	46	48.98	0.1
	0.8s		10.50nm		4.9mb	
LIC	72.87	82	P	46	49.20	0.0
Z 20s			0.36um		4.7msz	
TIC	72.94	81	P	46	49.98	0.4
	0.7s		3.50nm		4.4mb	
KIC	73.17	82	P	46	51.38	0.4
	0.8s		7.00nm		4.7mb	
YKA	74.07	343	eP	46	52.70	-2.5
	0.7s		1.60nm		4.1mb	
AVE	76.48	54	eP	47	11.50	1.9
INK	83.79	342	eP	47	48.00	0.1
NVL	84.03	161	eP	47	50.00	0.9
SPA	84.07	180	iPd	47	51.40	1.8
	1.0s		10.50nm		4.9mb	
MFF	85.36	42	eP	48	11.60	15.4X
	1.0s		14.00nm		5.1mb	
MBC	85.66	351	eP	47	58.00	0.9
	1.0s		14.00nm		5.1mb	
TOA	85.68	334	P	47	58.00	0.4
RJF	86.20	44	eP	48	12.70	12.3X
PDB	88.71	330	P	48	10.80	-1.3
FRF	89.50	46	eP	48	17.00	0.7
	0.5s		2.90nm		4.8mb	
LPL	89.85	44	eP	48	19.20	1.0
	0.7s		2.20nm		4.6mb	
LPG	89.86	44	eP	48	19.40	1.1
IMA	90.04	337	P	48	17.30	-1.2
	0.8s		3.88nm		4.7mb	
BSF	90.24	42	eP	48	20.50	0.8
	0.6s		1.80nm		4.5mb	
CDF	90.64	42	eP	48	21.80	0.2
	0.6s		1.80nm		4.6mb	
NDI	146.76	44	ePKP	55	02.00	1.9
LZH	150.02	359	PKPd	55	13.00	7.8X
	2.0s		36.00nm			
			pP	55	21.50	
			sP	55	25.00	
GKN	152.01	36	PKP	55	09.42	1.0
KKN	152.55	36	PKP	55	11.22	2.0
DMN	152.58	36	PKP	55	11.56	2.2X
PKI	152.79	36	PKP	55	10.92	1.2
GUN	152.80	35	PKP	55	12.66	2.9X

S.D. = 1.2 on 55 of 68 obs.

? APR 09, 1991 16h 18m 23.59±1.32s
40.898 N ±9.5km 20.467 E ±14.0km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
ML 2.2 (SKO). MD 3.0 (ATH).

OHR	0.33	50	iPgc	18	30.00	-0.4
			iSg	18	37.10	
KZN	1.16	120	ePb	18	45.40	0.1
			eSb	19	06.00	
KEK	1.29	204	ePn	18	47.40	-0.1
SKO	1.30	34	iPn	18	48.00	0.4
			iSn	19	05.60	

S.D. = 0.6 on 4 of 4 obs.

* APR 09, 1991 17h 18m 32.94±1.02s
2.458 N ±14.2km 128.831 E ±15.4km

DEPTH = 33.0km (normal)
4.4mb (3 obs.)
HALMAHERA (267)

MNI	4.11	256	ePc	19	35.80	0.7
WB2	22.91	167	eP	23	35.10	-0.1
	0.5s		6.80nm		4.4mb	
ASPA	26.43	170	eP	24	12.80	4.0X
	1.1s		4.90nm		4.0mb	
LZH	40.67	328	eP	26	15.70	3.6X
	1.2s		16.00nm		4.6mb	
GUN	48.17	306	P	27	12.80	0.1
KKN	48.60	306	P	27	15.60	-0.3
HYB	51.52	290	eP	27	37.00	-1.1
YAK	59.42	0	iP	28	35.20	0.8

S.D. = 0.9 on 6 of 8 obs.

? APR 09, 1991 17h 20m 38.31±6.27s
33.050 S ±18.3km 72.047 W ±43.1km
DEPTH = 10.0km (geophysicist)
OFF COAST OF CENTRAL CHILE (134)

LCCH	0.58	137	iPd	20	50.40	0.3
			iS	20	59.50	
ROCH	0.87	85	iPd	20	55.50	0.2
			iS	21	08.10	
LNV	1.05	150	iP	20	58.00	-0.1
			iS	21	13.00	
TACH	1.11	123	iPd	20	58.90	-0.2
			iS	21	15.00	
SAN	1.23	109	iP	21	01.10	-0.1
			iS	21	18.40	
JACH	1.28	74	iP	21	02.00	-0.1
			iS	21	20.80	
PCH	1.40	114	iPd	21	03.90	-0.1
			iS	21	24.40	
MDZ	2.69	87	eP	21	27.60	5.1X

S.D. = 0.2 on 7 of 8 obs.

* APR 09, 1991 17h 41m 30.91±0.68s
6.009 S ±7.5km 77.115 W ±18.1km
DEPTH = 10.0km (geophysicist)
4.6mb (3 obs.)
NORTHERN PERU (111)

TUNG	4.75	344	P	42	44.80	0.2
VC1	5.49	346	eP	42	55.00	-0.2
NNA	5.95	177	iPc	43	03.50	2.3
	0.7s		18.49nm		4.9mb	
			eS	44	04.00	
PT10	6.03	179	eP	43	01.50	-0.8
			eS	44	09.00	
YANA	6.03	346	eP	43	08.30	5.5X
CAYA	6.11	352	eP	43	04.00	0.0
HUA	6.25	164	eP	42	09.00	-56.8X
			eS	43	52.10	
COTA	6.42	349	eP	43	10.00	1.6
ZOBO	13.48	140	P	44	45.00	-0.3

Z 20s 0.18um

			i	44	55.00	
			LR	50	24.00	
LPB	13.69	141	(P)	45	02.00	14.0X
CNCB	13.97	141	P	45	02.00	10.2X
SDV	16.15	24	eP	45	20.70	0.9
SIV	18.60	124	P	45	50.00	-0.4
YKA	74.08	343	eP	53	06.00	-2.7
	0.6s		0.90nm		4.0mb	
INK	83.80	342	eP	54	01.00	-0.4
MBC	85.68	351	eP			

09d 18h

TACH 1.42 131 iS 13 14.50
 iS 12 58.00 -0.3
 iS 13 14.40
 SAN 1.50 119 iPc 12 59.60 0.2
 iS 13 16.70
 PCH 1.69 122 iP 13 02.50 0.3
 iS 13 25.50
 S.D. = 0.5 on 7 of 7 obs.

% APR 09, 1991 18h 18m 32.85 ± 1.41s
 16.550 N ± 12.0km 61.743 W ± 19.2km
 DEPTH = 33.0km (normol)

LEEWARD ISLANDS (92)

SEG 0.27 123 ePc 18 42.69 2.4
 BPA 0.50 348 ePd 18 43.47 -0.1
 S 18 56.00
 PAG 0.52 173 eP 18 44.00 0.2
 SFG 0.60 119 eP 18 44.70 -0.2
 DEG 0.70 110 eP 18 45.14 -1.1
 S 18 58.90
 MGG 0.75 147 eP 18 45.77 -1.2
 S 19 00.50
 S.D. = 1.7 on 6 of 6 obs.

? APR 09, 1991 18h 28m 40.20 ± 2.48s
 13.586 N ± 47.4km 90.707 W ± 12.0km
 DEPTH = 33.0km (normol)
 3.6mb (1 obs.)

NEAR COAST OF GUATEMALA (71)

Felt (11) at San Salvador, El Salvador.

CUSS 0.81 66 iPc 28 54.30 -0.9
 TME 1.38 72 iPc 29 04.50 1.1
 VSS 1.43 84 iPd 29 04.10 -0.1
 SJAS 1.50 87 iPc 29 04.70 -0.5
 LFU 1.56 84 iPc 29 06.40 0.4
 TPX 2.00 311 iP 29 08.30 -4.0x
 iS 29 30.70
 SCX 3.64 330 eP 29 39.00 3.4x
 iS 30 25.80
 OXX 6.76 302 (P) 30 20.00 0.0
 YKA 51.72 346 eP 37 54.10 7.9x
 0.6s 0.40nm 3.6mb
 S.D. = 0.9 on 6 of 9 obs.

? APR 09, 1991 18h 29m 16.75 ± 1.17s
 43.079 N ± 12.2km 8.078 W ± 8.8km
 DEPTH = 10.0km (geophysicist)

SPAIN (377)

mbLg 2.7 (MDD).

STS 0.40 241 eP 29 24.60 -0.3
 eS 29 29.80
 EMON 0.65 57 ePg 29 29.90 0.1
 eSg 29 39.50
 ERUA 0.97 135 ePg 29 35.00 -0.2
 eSg 29 49.30
 EZAM 1.03 206 ePg 29 36.70 0.4
 eSg 29 50.00
 S.D. = 0.5 on 4 of 4 obs.

* APR 09, 1991 19h 56m 42.73 ± 1.06s
 22.789 S ± 13.5km 69.021 W ± 10.7km
 DEPTH = 93.2 ± 12.0 km
 4.2mb (3 obs.)

NORTHERN CHILE (123)

ANT 1.57 234 iPc 57 08.80 -1.2
 iS 57 26.70
 SLA 3.76 122 ePc 57 42.00 2.2
 CNCB 6.03 10 P 58 16.10 4.5x
 i 58 45.00
 LPB 6.28 8 eP 58 36.00 21.0x
 e 58 49.00
 ZOBO 6.54 8 P 58 22.00 3.3x
 i 58 52.00
 ARE 6.71 339 eP 58 21.00 0.3
 iS 59 33.50
 SIV 10.10 49 P 59 05.40 -1.3
 VAO 20.32 95 iPd 01 12.60 -1.1
 i 01 15.90
 BMA 22.93 95 (P) 01 40.00 0.4
 ALO 67.52 327 eP 07 32.60 1.4
 0.8s 2.43nm 4.2mb
 ANMO 67.52 327 eP 07 32.70 1.5

1.0s 2.25nm 4.1mb
 pP 08 08.00 146kmx
 KIC 69.16 73 P 07 40.80 -0.7
 YKA 92.36 341 eP 09 43.50 0.2
 0.9s 1.00nm 4.2mb
 GBA 146.92 100 PKPc 16 20.60 6.1x
 GKN 155.67 72 PKP 16 36.80 9.5x
 KKN 156.26 73 PKP 16 28.60 0.4
 PKI 156.39 73 PKP 16 26.40 -2.1
 GUN 156.77 72 PKP 16 23.60 -5.4x
 S.D. = 1.5 on 12 of 18 obs.

% APR 09, 1991 20h 25m 22.41 ± 3.54s
 16.872 N ± 18.4km 61.043 W ± 23.9km
 DEPTH = 10.0km (geophysicist)

LEEWARD ISLANDS (92)

ML 3.0 (FDF).

DEG 0.56 182 ePd 25 33.56 -0.2
 SEG 0.64 224 ePd 25 35.62 0.3
 S 25 44.70
 BPA 0.80 283 ePc 25 37.85 -0.1
 S 25 50.90
 MGG 0.98 196 ePd 25 40.90 -0.2
 PAG 1.04 216 eP 25 41.70 -0.3
 S 25 55.40
 BBL 1.40 197 eP 25 48.50 0.4
 S.D. = 0.4 on 6 of 6 obs.

? APR 09, 1991 20h 43m 19.89 ± 6.01s
 6.420 N ± 89.5km 72.984 W ± 15.5km
 DEPTH = 165.7 ± 21.3 km
 3.4mb (1 obs.)

NORTHERN COLOMBIA (99)

MD 4.5 (UPA).

SDV 3.38 43 iPnd 44 14.10 0.7
 eSn 44 52.40
 TOV 4.60 43 ePn 44 29.70 0.5
 eSn 45 17.90
 MORO 6.39 46 eP 44 51.60 -1.3
 UPA 6.97 292 (P) 45 07.90 7.3x
 e 46 11.00
 OLLA 7.08 59 eP 45 02.20 0.0
 ECO 7.26 294 ePc 45 04.30 -0.2
 YKA 63.68 340 eP 53 35.70 0.3
 0.5s 0.30nm 3.4mb
 WB2 150.25 241 iPKPc 02 57.00 8.9x
 0.5s 4.50nm
 S.D. = 1.2 on 6 of 8 obs.

& APR 09, 1991 21h 03m 07.27s
 63.523 N 150.016 W
 DEPTH = 138.4km
 CENTRAL ALASKA (1)
 <AEIC>.

TRF 0.14 239 iPc 03 26.03 1.3
 S 03 40.66
 MCK 0.53 66 iPc 03 27.58 -0.1
 eS 03 42.51
 RND 0.54 102 iPc 03 27.47 -0.4
 S 03 43.29
 HUR 0.57 162 iPc 03 27.36 -0.6
 eS 03 43.24
 BWN 0.70 20 iPc 03 28.78 0.0
 CUT 1.13 186 iPc 03 31.75 -0.7
 NEA 1.14 21 ePc 03 31.74 -0.8
 eS 03 49.52
 WRH 1.28 41 iPc 03 33.38 -0.5
 CCB 1.49 40 iPc 03 35.56 -0.6
 RDS 1.54 31 iPc 03 36.38 -0.4
 eS 03 57.90
 HDA 1.62 55 iPc 03 37.01 -0.6
 MDM 1.64 28 iPc 03 37.47 -0.4
 eS 03 59.38
 FBA 1.69 34 iPc 03 38.02 -0.4
 eS 04 00.52
 SKT 1.70 205 ePc 03 37.34 -1.2
 eS 04 01.21
 GH0 1.83 164 iPd 03 39.38 -0.8
 GLM 1.86 37 iPc 03 40.02 -0.5
 eS 04 04.49
 DDM 1.87 80 ePc 03 40.50 -0.1
 eS 04 05.44
 PWA 1.88 178 ePd 03 40.02 -0.6
 eS 04 05.28

PLRM 1.98 168 eP 03 40.73 -1.1
 SUA 2.09 190 eP 03 42.66 -0.7
 SCM 2.10 143 eP 03 42.27 -1.2
 PAX 2.13 103 ePc 03 43.55 -0.3
 KNK 2.24 160 ePd 03 44.00 -1.1
 TOA 2.27 127 eP 03 44.87 -0.6
 SDG 2.27 114 eP 03 45.11 -0.4
 PMS 2.30 174 iPd 03 44.94 -0.9
 eS 04 14.07
 NCG 2.35 206 ePc 03 45.44 -1.1
 BGL 2.52 207 eP 03 48.03 -0.7
 SPU 2.54 203 ePc 03 47.65 -1.2
 CKL 2.57 206 eP 03 48.28 -1.1
 DOT 2.66 85 ePc 03 49.57 -0.9
 KLU 2.79 135 ePc 03 50.66 -1.4
 NKA 2.85 192 ePc 03 53.76 1.0
 VLZ 2.95 143 eP 03 52.11 -2.0
 VZW 2.95 145 eP 03 52.48 -1.7
 GLI 2.99 151 ePd 03 52.74 -1.8
 IMA 3.00 330 ePd 03 53.52 -1.3
 SLKM 3.03 182 eP 03 53.93 -1.2
 RDT 3.17 202 ePd 03 55.89 -1.1
 DFR 3.20 204 ePd 03 56.37 -1.1
 RDN 3.29 204 eP 03 57.32 -1.3
 REF 3.30 204 eP 03 57.60 -1.2
 RS2 3.33 204 eP 03 58.36 -1.0
 RSO 3.33 204 eP 03 58.35 -1.0
 KNIM 3.36 160 ePc 03 57.46 -2.1
 SEW 3.44 175 ePc 03 58.98 -1.5
 GLB 3.56 123 eP 04 01.32 -0.8
 MTU 3.72 161 eP 04 02.48 -1.8
 BRK 3.80 187 ePd 04 03.60 -1.7
 CNPM 4.05 189 ePd 04 07.03 -1.7
 PDB 4.24 210 eP 04 09.82 -1.4
 CROM 4.26 128 eP 04 10.44 -1.1
 BALM 4.37 121 eP 04 11.47 -1.5
 TGL 4.37 126 eP 04 11.40 -1.6
 54 obs. associated

APR 09, 1991 22h 05m 58.02 ± 0.57s
 43.082 N ± 7.5km 0.563 W ± 4.5km
 DEPTH = 10.0km (geophysicist)

PYRENEES (378)

ML 2.4 (LDG).

ESCF 0.01 247 Pg 05 59.33 -0.6
 ATE 0.10 272 Pg 06 00.93 0.1
 Sg 06 02.78
 OGE 0.11 37 Pg 06 00.33 -0.5
 JAU 0.15 107 Pg 06 01.13 -0.5
 LHE 0.17 194 Pg 06 01.93 -0.1
 ISSF 0.18 252 Pg 06 02.34 0.2
 Sg 06 05.68
 MADF 0.20 289 Pg 06 02.63 0.2
 EPF 0.66 94 Pg 06 12.20 0.9
 Sg 06 19.90
 LPO 2.04 38 Pg 06 36.20 3.4x
 Sg 07 01.60
 LFF 2.08 26 Pg 06 37.40 4.0x
 Sg 07 04.40
 CAF 2.64 45 Pg 06 47.60 6.1x
 Sg 07 22.60
 RJF 2.68 33 Pg 06 48.60 6.7x
 Sg 07 22.40
 S.D. = 0.6 on 8 of 12 obs.

* APR 09, 1991 22h 07m 51.10 ± 1.75s
 7.800 N ± 7.3km 126.901 E ± 12.1km
 DEPTH = 70.3 ± 15.7 km
 4.5mb (5 obs.)

MINANDAO, PHILIPPINE ISLANDS (259)

DAV 1.49 242 eP- 08 17.00 0.6
 MNI 6.64 198 e(P) 09 30.50 2.3x
 OIZ 19.97 306 eP 12 19.50 -1.0
 N 15s 0.80um
 SSE 23.78 348 eP 12 56.00 -2.2
 Z 20s 0.50um 4.0msz
 N 10s 0.20um
 WB2 28.53 165 eP 13 41.80 -0.5
 0.7s 4.60nm 4.2mb
 OIS 30.82 156 eP 14 01.00 -1.7
 SNY 34.02 356 eP 14 30.40 0.2
 Z 20s 0.50um 4.2msz
 MDJ 36.75 3 eP 14 54.60 1.2
 1.8s 30.00nm 4.9mb
 BAL 39.42 194 eP 15 16.50 0.6

KLB 40.13 192 eP 15 22.00 0.2
 MUN 40.85 194 eP 15 28.00 0.4
 BRS 43.03 145 iPd 15 45.50 -0.1
 GUN 43.58 303 P 15 50.80 0.3
 0.6s 12.00nm 4.9mb
 PKI 43.87 302 P 15 52.60 -0.2
 KKN 44.05 302 P 15 54.00 -0.1
 DMN 44.14 302 P 15 54.80 -0.1
 GKN 44.65 302 P 15 58.20 -0.8
 GBA 48.88 281 Pd 16 32.60 0.6
 0.5s 2.10nm 4.4mb
 YAK 54.15 2 eP 17 11.50 0.5
 MBC 87.97 13 eP 20 36.00 1.9
 KAF 88.09 332 eP 20 34.90 0.0
 NUR 89.25 331 eP 20 40.50 0.1
 YKA 95.74 24 eP 21 13.30 2.9X
 0.7s 0.50nm 4.1mb
 S.D. = 1.0 on 21 of 23 obs.

APR 09, 1991 22h 59m 11.64 ± 1.18s
 26.358 N ± 7.0km 93.025 E ± 5.7km
 DEPTH = 67.2 ± 13.0 km
 4.4mb (10 obs.)

EASTERN INDIA (317)

LSA 3.72 334 iPg 00 09.80 1.5
 Sg 00 53.00
 GUN 6.55 285 P 00 45.30 -2.6X
 PKI 6.90 282 P 00 49.54 -3.2X
 KKN 7.05 283 P 00 51.36 -3.3X
 DMN 7.17 282 P 00 52.98 -3.4X
 GKN 7.65 284 P 00 59.46 -3.4X
 KMI 8.85 96 Pd 01 19.50 0.1
 1.0s 80.00nm 5.5mb X
 PP 01 26.00
 SP 01 30.00
 CD2 10.46 62 P 01 40.20 -1.1
 eS 03 39.00
 GYA 12.23 87 P 02 02.00 -3.0X
 KHT 12.64 155 eP 02 09.00 -1.3
 LZH 13.40 41 Pd 02 19.60 -0.8
 1.2s 110.00nm 5.4mb
 Z 16s 0.24um 4.6msz
 PP 02 28.00
 GTA 14.20 22 iPc 02 27.60 -3.3X
 1.0s 10.00nm 4.2mb
 Z 16s 0.40um 4.7msz
 E 11s 0.30um
 SP 02 37.00
 NDI 14.22 283 iPd 02 24.00 -7.0X
 1.0s 40.00nm 4.8mb
 XAN 15.72 57 P 02 47.10 -3.3X
 HYB 16.10 239 eP 02 52.00 -3.2X
 eS 05 36.00
 QIZ 17.14 112 P 03 09.40 1.2
 WMO 17.95 347 eP 03 16.60 -1.6
 WHN 19.20 73 Pd 03 33.50 0.5
 0.8s 30.00nm 4.6mb
 N 10s 0.30um
 eS 07 05.00
 POO 19.34 250 eP 03 34.50 -0.1
 GBA 19.35 232 Pd 03 34.10 -0.5
 0.5s 3.60nm 3.9mb
 TIY 19.93 51 eP 03 39.40 -1.3
 BTO 20.01 41 eP 03 39.60 -1.9
 HHC 21.09 42 P 03 52.50 0.0
 KOD 21.76 225 eP 04 01.00 1.3
 TIA 22.77 59 eP 04 10.50 1.4
 GAR 22.82 309 eP 04 09.90 0.1
 NJ2 23.22 70 eP 04 15.00 1.5
 QUE 23.26 285 eP 04 14.60 0.5
 ePP 04 30.90
 BJI 23.61 49 eP 04 19.00 1.8
 CN2 31.47 48 eP 05 30.00 1.1
 SOD 56.89 335 eP 09 05.00 13.4X
 WB2 61.04 135 eP 09 19.50 -1.3
 0.4s 6.60nm 5.1mb
 HFS 62.26 326 eP 09 28.00 -0.5
 0.4s 1.10nm 4.3mb
 NB2 63.39 327 P 09 48.00 12.0X
 0.9s 3.60nm
 LPL 69.22 311 eP 10 13.30 -0.3
 0.6s 3.60nm 4.5mb
 SMF 70.80 313 eP 10 22.10 -0.8
 0.7s 2.20nm 4.2mb
 SSF 70.89 314 eP 10 23.70 0.3
 0.8s 2.70nm 4.2mb

CAF 72.54 312 eP 10 33.40 0.1
 YKA 88.74 12 eP 12 15.50 16.7X
 0.6s 0.30nm
 S.D. = 1.2 on 26 of 39 obs.

? APR 09, 1991 23h 27m 55.64 ± 14.88s
 29.621 S ± 90.9km 67.685 W ± 87.0km
 DEPTH = 33.0km (normal)
 LA RIOJA PROVINCE, ARGENTINA (138)

RTRS 1.64 250 iPc 28 22.50 0.1
 RTLL 1.83 201 iPd 28 25.40 0.0
 S 28 56.90
 CFA 2.04 193 ePd 28 28.00 -0.3
 S 29 00.40
 RTCB 2.09 207 ePc 28 29.10 -0.1
 S 29 02.00
 ZON 2.10 204 eP 28 30.00 0.8
 eS 29 02.00
 RTBS 2.54 216 ePc 28 35.00 -0.4
 MDZ 3.40 197 eP 29 21.90 34.1X
 S.D. = 0.5 on 6 of 7 obs.

? APR 09, 1991 23h 56m 18.33 ± 3.37s
 6.904 S ± 29.2km 128.661 E ± 23.6km
 DEPTH = 193.5 ± 34.8 km
 4.7mb (1 obs.)
 BANDA SEA (280)

KUPT 5.95 237 eP 57 44.50 -1.1
 eS 58 53.00
 MTN 6.39 158 eP 57 51.80 0.5
 KNA 8.79 179 eP 58 24.50 1.6
 eS 00 00.00
 WB2 14.09 157 eP 59 30.00 -0.8
 0.3s 36.10nm 5.3mb X
 MBL 16.55 210 iPc 00 08.50 7.5X
 OIS 17.22 143 eP 00 07.70 -1.3
 eS 03 10.00
 ASPA 17.41 164 iPc 00 11.40 0.4
 0.4s 13.80nm 4.7mb
 iS 03 21.00
 GUN 53.89 312 P 05 24.60 0.1
 PKI 54.06 311 P 05 25.80 0.1
 KKN 54.27 311 P 05 27.40 0.3
 GKN 54.87 311 P 05 31.40 0.1
 S.D. = 1.1 on 10 of 11 obs.

? APR 10, 1991 00h 07m 48.91 ± 3.33s
 29.875 S ± 50.2km 176.398 W ± 26.7km
 DEPTH = 119.1 ± 19.2 km
 4.9mb (2 obs.)
 KERMADEC ISLANDS REGION (177)

RAO 1.46 295 P 08 16.20 0.0
 S 08 31.10
 HBZ 8.88 208 eP 09 39.10 -16.6X
 PUZ 9.30 207 eP 09 44.00 -17.4X
 eS 11 10.30
 DZM 17.26 293 iPc 11 44.00 0.0
 RMO 30.83 268 iPc 13 56.00 0.3
 ASPA 44.53 266 iPc 15 50.10 -0.4
 0.8s 14.10nm 4.8mb
 WB2 45.46 271 iPc 15 58.00 0.1
 0.6s 17.30nm 5.0mb
 e 19 04.60
 e 19 58.50
 e 20 52.70
 MTN 51.28 278 eP 16 30.90 -12.0X
 GUN 109.51 292 Pd iff 22 00.00 -4.7X
 SOD 140.02 346 ePKP 27 04.00 0.0
 KAF 144.50 342 iPKP 27 23.70 11.8X
 0.6s 5.80nm
 NUR 146.28 341 iPKP 27 29.70 14.8X
 0.6s 20.90nm
 NB2 148.42 353 PKP 27 36.60 18.1X
 0.8s 10.30nm
 UPP 148.55 346 iPKP 27 37.10 18.5X
 HFS 148.99 350 ePKP 27 37.50 18.2X
 0.9s 12.10nm
 S.D. = 0.4 on 6 of 15 obs.

? APR 10, 1991 00h 22m 32.73 ± 2.79s
 44.504 N ± 93.0km 145.927 E ± 37.9km
 DEPTH = 33.0km (normal)
 4.6mb (7 obs.)
 HOKKAIDO, JAPAN REGION (224)

BJI 22.40 269 eP 27 32.10 2.6
 0.6s 13.00nm 4.6mb
 GUN 50.10 272 P 31 27.40 0.4
 KKN 50.60 272 P 31 30.80 0.1
 PKI 50.64 272 P 31 30.60 -0.5
 DMN 50.83 272 P 31 32.80 0.3
 GKN 50.93 273 P 31 33.00 -0.1
 YKA 55.66 34 eP 32 08.80 1.3
 0.6s 0.20nm 3.3mb X
 GBA 65.27 265 Pc 33 10.70 -2.8
 0.8s 4.90nm 4.7mb
 NB2 68.58 338 P 33 32.70 -1.2
 0.4s 1.10nm 4.3mb
 HFS 68.65 337 eP 33 32.60 -1.7
 0.4s 2.80nm 4.7mb
 GRR 83.01 338 eP 34 56.40 0.7
 SMF 83.26 335 eP 34 56.60 -0.4
 0.6s 2.25nm 4.5mb
 AVF 83.28 335 eP 34 56.80 -0.3
 LPL 83.34 332 eP 34 57.70 0.0
 LPG 83.35 332 eP 34 57.80 -0.1
 MAF 84.03 335 eP 35 01.20 0.3
 0.6s 3.60nm 4.7mb
 MFF 84.46 337 eP 35 03.40 0.4
 CAF 85.35 335 eP 35 08.40 0.8
 0.8s 2.70nm 4.5mb
 LPO 85.83 336 eP 35 10.30 0.3
 S.D. = 1.2 on 19 of 19 obs.

APR 10, 1991 01h 08m 39.61 ± 0.16s
 37.359 N ± 2.3km 36.221 E ± 2.5km
 DEPTH = 10.0km (geophysicist)
 5.2mb (81 obs.) 4.5msz (11 obs.)
 TURKEY (366)
 MD 5.1 (ISK). ML 4.9 (CSS).
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 16S, 33C
 Centroid Location:
 Origin Time 01:08:46.4 1.2
 Lat 37.54N 0.17 Lon 35.77E 0.10
 Dep 15.0 FIX Half-duration 1.6
 Moment Tensor: Scale 10**16 Nm
 Mrr=-7.54 0.66 Mtt=-1.27 0.89
 Mff=8.82 0.82 Mrt=-6.35 1.92
 Mrf=-7.66 2.89 Mtf=0.49 0.69
 Principal Axes:
 T Val=12.47 Plg=24 Azm=104
 N 0.88 19 203
 P -13.35 59 327
 Best Double Couple: Mo=1.3*10**17
 NP1:Strike=160 Dip=27 Slip=-136
 NP2: 29 72 -70

GAZ 0.81 103 iPg 08 55.80 0.5
 eSg 09 05.80
 FAM 2.96 218 eP 09 29.50 2.0
 CSS 3.35 225 eP 09 30.70 -2.3
 eSn 10 08.50
 BHL 3.48 188 Pn 09 35.00 0.1
 Sn 10 26.50
 KVT 3.72 358 iPn 09 39.50 1.1
 PPCY 3.99 233 eP 09 43.70 1.6
 ADI 4.35 191 eP 09 48.30 1.0
 KAS 4.44 335 iPnd 09 50.30 1.8
 BCK 4.49 273 iPn 09 52.30 3.1X
 ATZ 4.59 190 eP 09 52.10 1.4
 eS 10 46.90
 SHMJ 4.64 185 Pc 09 52.17 0.8
 ELL 5.09 265 iPn 10 01.00 3.2X
 ALT 5.10 291 iPn 10 00.50 2.5
 JARJ 5.11 183 Pc 09 58.58 0.4
 BURJ 5.12 184 Pd 09 58.21 0.0
 SHBJ 5.17 167 Pc 09 58.77 -0.1
 ZNT 5.20 191 eP 10 00.30 1.0
 eS 10 59.80
 RUWJ 5.32 156 Pc 09 57.96 -3.2X
 SALJ 5.35 185 Pc 10 01.69 0.1
 KHL 5.39 282 iPn 10 04.50 2.4
 GPA 5.46 304 iPn 10 05.20 2.1
 KFNJ 5.50 185 Pc 10 04.04 0.5
 QTFJ 5.62 169 Pc 10 04.58 -0.7
 MASJ 5.63 184 Pc 10 05.25 -0.2
 MDSJ 5.71 180 Pc 10 06.20 -0.4
 MKRJ 5.81 185 Pc 10 07.51 -0.5
 DSI 5.82 187 eP 10 09.60 1.6
 QTRJ 6.05 182 Pc 10 10.58 -0.7

LISJ	6.13	186	Pc	10	12.84	0.5			eS	16	15.00		MOX	22.00	315	ePc	13	36.00	0.5		
YLV	6.22	303	ePn	10	16.10	2.3	SDI	17.81	291	P	12	50.30	1.2		1.4s	49.00nm		4.7mb			
CSTJ	6.23	176	Pd	10	11.78	-2.2	MCT	17.92	278	P	12	57.50	6.8X	Z	13s	1.80um		4.7MszX			
GBZT	6.29	305	eP	10	16.00	1.4	AZI	18.12	292	P	12	54.80	1.9	N	11s	1.40um					
YER	6.34	270	iPn	10	17.50	2.1	RIY	18.19	303	eP	12	54.40	0.7	E	14s	1.30um					
DST	6.36	293	ePn	10	17.90	2.1	AQU	18.20	293	P	12	56.20	2.3	PCP	22.03	298	P	13	33.27	-2.7	
CIN	6.47	275	eP	10	20.00	2.7	LJU	18.33	305	eP	12	56.60	1.1	BRN	22.06	320	eP	13	36.50	0.5	
ISK	6.68	306	ePn	10	22.00	1.8			eS	16	20.00		CKI	22.20	297	P	13	35.10	-2.4		
PRNI	7.07	189	ePd	10	26.50	0.8	KMSA	18.40	155	iPc	12	59.20	2.7	FIN	22.22	297	P	13	34.30	-3.5X	
IZM	7.16	281	iPn	10	28.20	1.2	RMP	18.65	291	P	12	59.80	0.4	LLS	22.22	304	ePd	13	36.90	-1.1	
NAQJ	7.36	185	P	10	31.45	1.7	MAIO	18.66	86	iPc	13	00.40	0.8	IMI	22.41	296	P	13	37.89	-1.8	
HITJ	7.60	182	Pc	10	34.01	0.8		0.9s	31.97nm			4.5mb		ROB	22.47	297	P	13	37.68	-2.6	
HSJH	7.65	184	Pc	10	37.40	3.5X			e	16	39.00		ORO	22.62	300	P	13	40.70	-1.1		
AOBJ	7.67	188	P	10	35.57	1.5	TRI	18.72	304	ePd	12	59.50	-0.8	STU	22.68	309	ePd	13	41.50	-0.7	
DMK	7.91	307	iPn	10	38.40	1.0			iS	16	24.00			1.2s	46.88nm		4.9mb				
TAB	8.04	82	eP	10	44.00	4.6X			iLR	17	52.00		SBF	22.73	296	eP	13	41.00	-1.8		
PRK	8.05	287	eP	10	41.00	1.7	ARV	18.72	296	P	13	00.20	-0.1		0.8s	26.85nm		4.8mb			
HOL	8.13	187	eP	10	45.20	4.8X	MNS	18.73	293	P	13	00.60	0.1	ENR	22.78	297	P	13	41.99	-1.4	
EZN	8.13	291	ePn	10	42.70	2.2	VOY	18.74	305	eP	13	00.90	0.3	ZLA	22.79	305	ePd	13	42.30	-1.1	
KOT	8.26	208	eP	10	39.00	-3.3X	RSM	19.16	297	P	13	05.90	0.3	SLE	22.80	306	ePd	13	42.60	-0.9	
HLW	8.51	210	eP	10	44.00	-1.8	KMR	19.37	310	iP-	13	08.60	0.4	STV	22.85	297	P	13	42.50	-1.6	
			eS	12	16.00				i	14	01.20		DOI	22.95	297	P	13	43.30	-1.7		
PSN	8.79	318	eP	10	51.00	1.4			e	16	40.00		BHB	22.98	298	P	13	42.19	-3.1X		
NPS	8.82	259	eP	10	48.50	-1.5	CRE	19.46	296	P	13	08.60	-0.8	RSP	23.04	299	P	13	42.30	-3.6X	
BADA	8.87	187	ePc	10	45.10	-5.6X	KBA	19.47	307	iPd	13	09.20	-0.3	PZZ	23.05	297	P	13	43.32	-2.7	
JMB	8.99	308	eP	11	00.00	7.6X		1.3s	96.70nm			4.9mb	DIX	23.10	301	ePd	13	46.60	-0.1		
RDO	9.11	298	eP	10	56.20	2.2			i	15	32.70		FEL	23.15	306	eP	13	46.25	-0.7		
KDZ	9.38	301	eP	11	01.00	3.1X	KSP	19.58	320	eP	13	09.00	-1.5	LSD	23.16	300	P	13	47.01	-0.3	
DIM	9.47	303	eP	11	03.00	3.9X		1.5s	206.00nm			5.2mb	SURF	23.25	297	P	13	47.30	-0.8		
CFR	9.90	325	ePc	11	06.50	1.7			ic	13	10.30		FRF	23.26	295	eP	13	46.80	-1.2		
PLD	10.06	302	eP	11	08.00	0.9	SFI	19.58	297	P	13	10.50	-0.1		1.2s	68.45nm		5.1mb			
PVL	10.16	309	iP	11	10.00	1.4	FVI	19.66	305	P	13	11.10	-0.3	RRL	23.33	298	P	13	47.83	-1.1	
MMB	10.54	297	eP	11	16.00	2.2	PGD	19.67	297	P	13	11.80	0.0	LMR	23.34	294	eP	13	47.40	-1.4	
PGB	10.60	303	eP	11	17.00	2.3	MAO	19.86	293	P	13	12.10	-1.5		1.2s	53.55nm		5.0mb			
VLI	10.64	271	eP	11	15.90	0.8	FIR	19.98	297	eP	13	14.00	-0.8	BBS	23.36	305	P	13	47.86	-1.1	
ISR	10.65	320	ePc	11	18.00	2.8			i	13	46.00		BNI	23.43	298	P	13	50.00	0.3		
VRI	11.08	323	eP	11	23.50	2.5			i	14	20.00		EMS	23.43	301	ePd	13	48.80	-1.0		
WAJH	11.15	178	eP	11	24.20	2.1			iS	17	00.00		LPG	23.45	300	eP	13	50.00	-0.1		
MLR	11.20	320	eP	11	23.00	0.2	BHG	20.00	309	iPd	13	15.10	0.0		1.0s	7.00nm		4.2mb	X		
VTS	11.27	302	iP	11	25.00	1.2		1.4s	162.00nm			5.2mb	LPL	23.46	300	eP	13	50.10	-0.1		
VAY	11.29	295	iP	11	26.50	2.6	PRU	20.04	316	iPd	13	14.90	-0.6	LRG	23.46	294	eP	13	48.70	-1.2	
CVO	11.31	322	ePc	11	27.50	3.3X		1.3s	84.80nm			4.9mb		1.4s	65.35nm		5.0mb				
CMP	11.53	317	ePc	11	29.00	1.8	Z	14s	1.50um			4.5MszX	Z	21s	0.93um		4.2Msz				
KZN	11.65	289	eP	11	31.10	2.2	N	12s	1.30um				STR	23.51	308	P	13	50.30	0.0		
IAS	11.73	330	eP	11	30.00	0.2	E	11s	1.80um				MOF	23.71	305	P	13	51.94	-0.4		
PTT	12.02	326	eP	11	34.00	0.1			e	13	21.40		WLS	23.72	307	P	13	52.14	-0.3		
TNR	12.19	317	ePd	11	39.00	2.8			e	13	29.20		GWF	23.73	308	P	13	51.63	-0.8		
SKO	12.28	297	iP	11	41.60	4.2X			eS	17	05.00		CDF	23.77	307	P	13	52.32	-0.7		
							KHC	20.18	313	iPc	13	16.20	-0.7	LOMF	23.78	304	P	13	52.27	-0.8	
								1.2s	35.00nm			4.6mb	ECH	23.79	306	P	13	52.69	-0.4		
							Z	12s	2.00um			4.7MszX	CDR	23.91	295	ePd	13	53.90	-0.4		
									e	13	19.00		BSF	23.92	305	P	13	53.81	-0.7		
									e	13	42.50		GRN	24.11	299	P	13	55.35	-0.9		
									eS	17	18.00		KOE	24.16	312	iPd	13	56.80	0.2		
							CTI	20.23	303	P	13	17.00	-0.6	HAU	24.26	305	eP	13	56.80	-0.8	
							MME	20.45	297	P	13	19.70	-0.4		1.2s	86.30nm		5.2mb			
							BDI	20.50	297	P	13	19.00	-1.4	Z	22s	0.82um		4.2Msz			
							WET	20.59	312	eP	13	20.50	-0.7	NUR	24.31	346	iP	13	58.60	0.6	
									i	13	24.00				e		18	24.00			
							WTTA	20.62	306	iPd	13	21.10	-0.7			e		22	50.00		
								1.1s	139.00nm			5.2mb			e		24	08.00			
									i	13	29.70				e		26	36.00			
									i	13	35.40		VITF	24.55	306	P	13	59.49	-0.9		
							WATA	20.69	307	iPd	13	21.50	-0.9	BNS	24.69	313	iPd	14	03.50	1.8	
								1.3s	187.00nm			5.3mb			1.3s	95.00nm		5.3mb			
									i	13	34.20		SSB	24.95	298	P	14	02.87	-1.5		
							BRG	20.83	318	ePc	13	23.50	-0.1	MEM	25.25	311	P	14	07.20	0.1	
								1.3s	150.00nm			5.2mb	WTS	25.30	315	iPd	14	08.20	0.7		
							SAL	20.87	301	P	13	23.80	-0.3		1.0s	52.00nm		5.2mb			
							SQTA	20.88	306	iPd	13	23.60	-0.8	ENN	25.36	312	eP	14	07.50	-0.6	
								1.3s	110.00nm			5.1mb			1.1s	27.00nm		4.8mb			
									i	13	35.60		UPP	25.48	338	iP	14	08.90	-0.2		
							OGA	20.89	305	eP	13	24.40	-0.2			iS		18	48.00		
								1.2s	84.00nm			5.0mb	KAF	25.53	349	iP	14	09.70	0.0		
							MOTA	20.99	306	iPd	13	24.40	-1.1		1.3s	88.70nm		5.3mb			
								1.1s	92.40nm			5.1mb	LBF	25.60	302	eP	14	08.40	-2.1		
									i	13	35.20			0.8s	24.20nm		4.9mb				
							FUR	21.17	309	eP	13	26.60	-0.6	SMF	25.64	301	eP	14	08.90	-1.9	
								1.1s	95.00nm			5.1mb			0.8s	46.35nm		5.2mb			
							OSS	21.42	304	ePd	13	30.30	0.4	WIT	25.72	316	eP	14	13.00	1.5	
							BOB	21.44	299	P	13	29.80	-0.2	LOR	25.73	303	eP	14	09.80	-1.9	
							PGF	21.46	292	eP	13	27.90	-2.3		0.9s	54.05nm		5.2mb			
								0.8s	22.85nm			4.6mb	Z	21s	1.38um		4.5Msz				
							CLL	21.56	318	iPc	13	31.00	-0.1			25.93	302	eP	14	11.70	-1.9
								1.5s	87.00nm			4.9mb			0.9s	55.70nm		5.3mb			
									eS	17	34.00		DOU	25.95	309	P	14	13.10	-0.5		

10d 01h

GIB 5.93 285 P 32 59.40 0.3
 SGO 6.07 311 P 33 01.30 0.4
 VTS 6.08 14 eP 33 04.00 2.7
 PVL 7.22 24 eP 33 15.00 -2.1
 DUI 7.26 315 P 33 18.50 0.7
 RFI 7.31 311 P 33 19.78 1.4
 HVAR 7.47 332 ePn 33 18.70 -1.9
 eSn 34 41.80

SDI 7.66 313 P 33 22.30 -1.0
 AZI 8.06 313 P 33 29.00 0.3
 MNS 8.75 313 P 33 37.50 -0.8
 ARV 9.33 319 P 33 45.50 -0.8
 VBY 9.91 335 eP 34 01.00 6.8X
 e(Sn) 35 48.40

PTJ 10.04 338 eP 33 53.10 -2.9
 SFI 10.20 318 P 33 58.00 -0.1
 TRI 10.64 330 P 34 03.50 -0.6
 VOY 10.86 332 ePn 34 05.30 -1.9
 e(Sn) 35 58.70

FVI 11.76 330 P 34 19.00 -0.2
 CTI 11.82 325 P 34 20.00 -0.1
 KBA 11.94 333 eP 34 21.00 -0.9
 1.0s 4.50nm 4.5mb X

MOX 15.59 337 e(P) 35 12.00 2.6
 CLL 15.77 341 e(P) 35 17.00 5.3X
 e 35 43.00

OBN 21.19 25 eP 36 14.00 -0.8
 NUR 23.94 4 eP 36 41.00 -0.7
 HFS 23.97 351 eP 36 42.40 0.4
 0.7s 4.90nm 4.1mb

NB2 25.20 348 P 36 55.10 1.2
 0.9s 2.30nm 3.7mb

LIC 38.70 225 P 38 54.50 2.0
 GKN 53.37 80 P 40 47.80 -0.8
 DMN 53.92 80 P 40 52.20 -0.5
 KKN 53.98 80 P 40 52.20 -0.9

PKI 54.18 80 P 40 53.80 -0.9
 GUN 54.40 79 P 40 55.20 -1.2
 INK 73.63 351 eP 43 04.00 2.9
 YKA 75.00 340 eP 43 10.20 1.1
 0.5s 0.40nm 3.6mb

S.D. = 1.3 on 59 of 63 obs.

APR 10, 1991 03h 14m 58.83±0.82s
 2.748 N ± 4.5km 128.632 E ± 9.2km
 DEPTH = 230.7 ± 9.1 km
 4.9mb (14 obs.)
 HALMAHERA (267)

DAV 5.28 325 eP 16 17.90 -0.2
 MTN 15.69 171 eP 18 29.00 -0.5
 0.3s 91.00nm 5.7mb

BAG 15.72 330 eP 18 30.50 0.5
 KNA 18.38 180 iPc 18 59.50 0.4
 0.8s 359.00nm 5.9mb

OZH 24.10 337 P 19 51.50 -3.5X
 0.7s 40.00nm 5.1mb

OIZ 24.49 313 P 19 59.40 0.6
 OIS 25.54 156 iPc 20 08.90 0.5
 ASPA 26.75 169 eP 20 19.30 0.0
 0.3s 20.70nm 5.3mb

WARB 28.83 184 iPc 20 38.30 0.4
 FORR 33.41 181 iPc 21 17.40 -0.3
 0.3s 20.00nm 5.2mb

MAT 34.77 14 iPd 21 27.90 -1.3
 1.0s 29.00nm 4.8mb

XAN 36.16 332 Pd 21 41.00 0.1
 CD2 36.56 323 P 21 45.00 0.6
 STK 36.57 161 iPc 22 05.10 20.7X
 0.4s 8.90nm

TIY 37.84 339 iPc 21 55.50 0.5
 BJI 38.80 345 eP 22 03.00 0.2
 0.9s 25.00nm 4.8mb

SNY 39.17 354 Pc 22 06.40 0.6
 1.2s 30.00nm 4.7mb

LZH 40.32 328 iPd 22 14.50 -1.0
 1.5s 74.00nm 4.9mb

MDJ 41.70 1 eP 22 26.50 0.0
 1.0s 20.00nm 4.5mb

GTA 44.92 328 iPd 22 53.10 0.5
 0.9s 20.00nm 4.5mb

GUN 47.84 306 Pd 23 16.18 0.3
 PKI 48.08 305 Pd 23 17.52 -0.2
 KKN 48.27 305 Pd 23 19.16 0.1
 DMN 48.34 305 Pd 23 19.80 0.1

0.8s 75.00nm 5.1mb
 GKN 48.88 305 Pd 23 23.58 -0.1
 HYB 51.23 290 iPd 23 41.00 -0.5
 1.0s 40.00nm 4.8mb
 KOD 51.32 281 eP 23 42.00 -0.5
 GBA 51.70 285 Pd 23 44.20 -0.7
 0.5s 4.70nm 4.2mb
 S.D. = 0.6 on 26 of 28 obs.

APR 10, 1991 05h 53m 22.77±1.60s
 31.738 S ± 7.7km 71.644 W ± 13.9km
 DEPTH = 10.0km (geophysicist)
 NEAR COAST OF CENTRAL CHILE (135)

JACH 1.30 137 iPd 53 46.60 -0.2
 iS 54 04.00

ROCH 1.34 157 iP 53 47.50 -0.1
 i 54 07.00

PEL 1.62 150 eP 53 51.50 0.0
 i 54 13.50

LCCH 1.73 178 iPd 53 53.10 0.0
 iS 54 16.00

RTBS 1.87 88 ePd 53 54.90 -0.1
 TACH 2.00 163 iP 53 57.00 0.0
 i 54 25.50

PCH 2.11 153 iP 53 58.80 0.2
 i 54 27.10

RTCB 2.44 85 ePc 54 03.80 0.4
 RTRS 2.44 51 ePd 54 03.10 -0.2
 S 54 32.90

ZON 2.54 86 eP 54 05.00 0.3
 MDZ 2.63 116 eP 54 10.20 4.2X
 iS 54 43.30

RTLL 2.74 82 iPc 54 07.20 -0.5
 CFA 2.91 88 ePd 54 10.10 0.1
 S 54 47.70

S.D. = 0.3 on 12 of 13 obs.

* APR 10, 1991 05h 55m 16.76±1.03s
 5.756 S ± 10.5km 77.159 W ± 19.3km
 DEPTH = 60.1 ± 10.9 km
 4.0mb (2 obs.)
 NORTHERN PERU (111)

TUNG 4.50 343 P 56 24.00 -0.2
 VCI 5.23 346 eP 56 33.60 -1.2
 GGP 5.73 345 eP 56 45.80 4.0X

YANA 5.78 346 eP 56 49.50 7.1X
 CAYA 5.86 352 eP 56 43.00 -0.5
 COTA 6.16 349 eP 56 50.00 2.2
 NNA 6.20 177 iPd 56 47.50 -0.4
 0.6s 46.67nm 5.1mb X

ZOBO 13.70 140 P 58 30.00 -0.3
 Z 22s 0.24um

LPB 13.91 141 P 58 35.00 2.1
 CNCB 14.19 141 P 58 43.00 6.2X

SDV 15.93 24 eP 59 05.70 6.8X
 SIV 18.77 124 P 59 32.40 -1.5
 PDICR 38.12 103 (P) 02 32.00 0.0

ALO 49.00 328 eP 04 00.00 0.3
 BW06 56.55 332 eP 04 54.90 -0.9
 1.0s 4.00nm 4.4mb

FRB 69.62 4 eP 06 21.00 -0.2
 YKA 73.83 343 eP 06 45.00 -1.4
 0.4s 0.30nm 3.6mb

INK 83.54 342 eP 07 40.00 0.8
 pP 07 53.00 44kmX

MBC 85.43 351 eP 07 50.50 2.0
 GKN 151.92 36 PKP 15 00.00 -0.6
 S.D. = 1.3 on 16 of 20 obs.

% APR 10, 1991 06h 06m 30.74±0.67s
 30.562 S ± 8.8km 121.413 E ± 7.1km
 DEPTH = 10.0km (geophysicist)
 WESTERN AUSTRALIA (590)
 Felt at Kolgoorlie.

COOL 0.40 216 iPc 06 39.30 0.4
 KLB 3.30 251 eP 07 24.00 0.5
 eS 08 01.00

BAL 4.06 268 eP 07 34.00 -0.2
 eS 08 20.90

MUN 4.67 251 eP 07 42.30 -0.7
 eS 08 34.00

MEKA 4.68 327 eP 08 30.00 46.9X
 FORR 5.77 95 eP 07 57.70 -0.7
 eS 09 04.00

WARB 6.34 48 iPc 08 07.40 0.8
 eS 09 22.00

MBL 9.47 351 eP 08 50.00 -0.2
 eS 10 34.00

S.D. = 0.7 on 7 of 8 obs.

? APR 10, 1991 09h 01m 16.75±4.75s
 41.136 N ± 29.5km 23.873 E ± 21.9km
 DEPTH = 10.0km (geophysicist)
 GREECE-BULGARIA BORDER REGION (363)
 MD 2.3 (THE).

SRS 0.21 265 ePc 01 21.38 0.0
 eS 01 26.78

SOH 0.50 232 ePd 01 26.98 0.0
 eS 01 37.14

OUR 0.81 174 ePd 01 32.38 0.0
 eS 01 44.78

PAIG 1.22 187 iPc 01 39.34 0.0
 eS 01 57.42

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

APR 10, 1991 09h 25m 50.91±1.11s
 43.198 N ± 7.8km 2.517 W ± 12.4km
 DEPTH = 10.0km (geophysicist)
 SPAIN (377)
 ML 3.0 (LDG). mbLg 2.8 (MDD).

ECRI 0.59 179 eP 26 02.90 0.0
 eS 26 09.30

EGRA 1.91 121 ePn 26 30.00 6.3X
 eSn 26 55.00

EPF 2.10 94 Pn 26 25.40 -1.2
 Sn 26 49.00

ETOR 2.40 172 ePn 26 30.00 -1.0
 eSn 26 54.00

GUD 2.83 206 eP 26 37.60 0.5
 eS 27 09.00

LPO 3.06 60 Pn 26 41.00 0.8
 Sn 27 16.00

EROO 3.22 136 ePn 26 42.90 0.4
 eSn 27 14.00

RJF 3.58 53 Pn 26 48.00 0.4
 Sn 27 29.20

CAF 3.73 61 Pn 26 49.20 -0.6
 Sn 27 30.20

ETER 4.06 101 ePn 26 55.60 1.3
 TCF 4.57 46 Pn 27 01.60 -0.1
 Sn 27 51.60

MAF 4.72 48 Pn 27 03.30 -0.5
 Sn 27 55.20

S.D. = 0.8 on 11 of 12 obs.

& APR 10, 1991 10h 48m 40.66s
 62.724 N 150.307 W
 DEPTH = 83.7km
 3.2mb (1 obs.)
 CENTRAL ALASKA (1)
 <AEIC>.

CUT 0.32 177 iPd 48 53.56 -0.1
 HUR 0.40 50 iPd 48 53.93 -0.3
 eS 49 03.66

TRF 0.73 1 iPd 48 57.30 0.0
 SKT 0.94 218 iPd 48 59.33 -0.2
 eS 49 13.08

RND 0.95 43 iPd 48 59.31 -0.4
 PWA 1.10 169 iPc 49 01.40 0.1
 GH0 1.15 145 iPc 49 02.26 0.1
 eS 49 18.78

MCK 1.19 31 ePd 49 02.37 -0.2
 eS 49 18.24

PLRM 1.26 154 ePc 49 03.15 -0.3
 eS 49 22.45

PMR 1.26 154 iPc 49 03.60 0.2
 SUA 1.28 189 iPc 49 03.99 0.2
 eS 49 22.74

SML 1.30 134 eP 49 04.11 0.1
 S 49 22.94

BWN 1.50 14 iPc 49 06.49 -0.1
 PMS 1.53 166 iPc 49 06.69 -0.2
 KNK 1.58 146 iPc 49 07.21 -0.2
 NCG 1.59 214 ePc 49 07.58 -0.2
 SCM 1.66 121 iPd 49 08.34 -0.3

10d 13h

LAT 0.63 213 iPc 17 10.40 1.4
 YYYY 1.38 265 iPd 17 21.60 4.0X
 MDG 1.79 299 ePd 17 22.00 -0.6
 PMG 3.27 183 eP 17 41.00 -1.7
 QIS 16.20 207 eP 20 36.00 0.1
 WB2 18.66 221 iPc 21 05.00 -1.0
 0.7s 8.20nm 4.1mb
 RMQ 20.30 176 eP 21 24.00 0.9
 ASPA 21.72 215 eP 21 38.80 1.4
 0.3s 32.20nm 5.1mb
 BRS 21.77 167 iPc 21 37.50 -0.4
 STK 26.19 191 eP 22 40.70 20.7X
 0.7s 2.90nm
 S.D. = 1.5 on 8 of 10 obs.

? APR 10, 1991 13h 55m 09.78 ± 1.29s
 35.944 N ± 17.8km 32.140 E ± 20.9km
 DEPTH = 10.0km (geophysicist)
 CYPRUS (372)
 ML 3.8 (CSS).
 PPCY# 1.07 171 eP 55 30.50 0.6
 CSS 1.38 135 eP 55 34.50 -0.6
 ELL 1.97 295 iPn 55 44.00 0.3
 KHL 3.16 319 ePn 56 01.00 1.2
 YER 3.33 292 ePn 56 00.50 -2.5X
 CIN 3.65 298 eP 56 06.00 -1.5
 S.D. = 1.5 on 5 of 6 obs.

% APR 10, 1991 14h 04m 01.44 ± 0.55s
 42.439 N ± 5.1km 19.080 E ± 4.5km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)
 ML 1.6 (TTG).
 TTG 0.13 94 iPg 04 05.53 0.9
 iSg 04 08.78
 BDV 0.24 230 iPg 04 07.02 0.4
 iSg 04 11.83
 NKY 0.38 351 iPg 04 09.28 0.0
 iSg 04 16.03
 HCY 0.43 271 iPg 04 10.32 0.1
 iSg 04 17.88
 ULC 0.49 165 iPg 04 10.72 -0.7
 iSg 04 18.52
 BRY 0.61 320 iPg 04 13.47 -0.3
 iSg 04 23.68
 PVY 0.68 76 iPg 04 14.98 0.0
 iSg 04 25.32
 IVA 0.74 54 iPg 04 15.65 -0.4
 iSg 04 27.58
 S.D. = 0.6 on 8 of 8 obs.

% APR 10, 1991 15h 40m 14.44 ± 0.55s
 40.394 N ± 6.0km 27.963 E ± 5.3km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.8 (ISK).
 BNT 0.05 221 iPg 40 16.30 -0.3
 EDC 0.09 238 iPg 40 16.50 -0.5
 CTT 0.83 25 iPg 40 30.90 0.4
 DST 0.94 147 ePn 40 32.60 0.2
 YLV 1.09 80 iPn 40 34.90 -0.1
 IZI 1.16 92 ePn 40 35.90 -0.2
 EZN 1.38 246 iPn 40 40.50 0.8
 DMK 1.43 354 iPn 40 40.10 -0.4
 S.D. = 0.5 on 8 of 8 obs.

? APR 10, 1991 16h 44m 35.97 ± 7.23s
 12.304 S ± 66.2km 118.499 E ± 33.3km
 DEPTH = 33.0km (normal)
 3.5mb (2 obs.)
 SOUTH OF SUMBAWA ISLAND (291)
 MBL 8.90 172 iPg 46 54.00 8.7X
 eS 48 33.50
 MEKA 14.24 180 iPg 47 56.30 -1.0
 eS 49 30.00
 WARB 15.79 152 iPd 48 18.20 0.6
 eS 51 10.00
 WB2 17.01 119 eP 48 31.60 -1.5
 0.5s 1.30nm 3.3mb

BAL 18.29 185 eP 48 48.00 -0.9
 eS 52 03.00
 ASPA 18.48 130 eP 48 52.80 1.4
 0.8s 4.60nm 3.7mb
 iS 52 13.50
 COOL 18.65 173 eP 48 53.50 0.1
 eS 52 10.00
 KLB 19.21 182 eP 49 00.50 0.4
 eS 52 21.00
 MUN 19.69 186 eP 49 06.50 1.0
 eS 52 35.00
 NWA0 20.56 183 eP 49 17.00 2.5X
 S.D. = 1.2 on 8 of 10 obs.

APR 10, 1991 16h 46m 50.61 ± 0.75s
 42.842 N ± 9.6km 17.946 E ± 5.9km
 DEPTH = 10.0km (geophysicist)
 ADRIATIC SEA (382)
 ML 2.1 (TTG).

BRY 0.44 82 iPg 46 59.45 -0.2
 iSg 47 07.28
 HCY 0.57 134 iPg 47 01.80 -0.3
 iSg 47 11.85
 NKY 0.77 92 iPg 47 04.93 -0.9
 iSg 47 18.26
 BDV 0.86 130 iPg 47 06.91 -0.2
 iSg 47 21.28
 TTG 1.05 113 iPg 47 10.66 0.2
 iSg 47 28.31
 HVAR 1.15 288 i(Pg) 47 12.00 -0.1
 iSg 47 28.30
 ULC 1.30 132 iPg 47 15.06 0.3
 IVA 1.44 88 iPg 47 17.46 0.7
 PVY 1.51 99 iPg 47 18.38 0.5
 S.D. = 0.6 on 9 of 9 obs.

* APR 10, 1991 17h 15m 19.58 ± 2.30s
 46.752 N ± 16.1km 15.331 E ± 14.8km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)
 ML 2.4 (KBA). MD 2.5 (LJU).
 LJU 0.90 218 iPg 15 34.90 -1.9
 iSg 15 44.50
 PTJ 0.96 153 i(Pg)d15 37.90 0.0
 CEY 1.19 212 e(Pg) 15 43.00 1.2
 e 15 48.00
 VOY 1.23 235 ePg 15 43.00 0.5
 iSg 15 56.50
 KBA 1.40 284 iPnd 15 44.70 -0.6
 iPg 15 46.10
 iSg 16 03.90
 FVI 1.76 266 P 15 51.10 0.8
 eSn 16 14.20
 S.D. = 1.4 on 6 of 6 obs.

APR 10, 1991 20h 44m 59.99 ± 0.78s
 42.822 N ± 8.2km 17.897 E ± 5.8km
 DEPTH = 5.0km (geophysicist)
 ADRIATIC SEA (382)
 ML 1.8 (TTG).
 BRY 0.48 80 iPg 45 09.46 -0.2
 iSg 45 17.40
 HCY 0.58 130 iPg 45 11.81 0.2
 iSg 45 21.38
 NKY 0.81 90 iPg 45 15.31 -0.9
 iSg 45 29.61
 BDV 0.87 128 iPg 45 17.00 -0.2
 iSg 45 31.55
 TTG 1.08 111 iPg 45 20.00 -0.7
 iSg 45 38.63
 HVAR 1.12 289 i(Pg) 45 21.30 -0.2
 iSg 45 37.00
 PLE 1.21 65 iPg 45 23.20 0.1
 iSg 45 42.88
 ULC 1.32 130 iPg 45 25.13 0.3
 iSg 45 46.46
 IVA 1.47 87 iPg 45 28.10 0.8
 iSg 45 50.78
 PVY 1.55 98 iPnc 45 29.30 0.9
 iSn 45 51.91
 SKO 2.76 107 ePn 46 13.00 27.3X
 S.D. = 0.7 on 10 of 11 obs.

* APR 10, 1991 22h 06m 56.50 ± 0.91s

36.961 N ± 11.1km 29.480 E ± 6.6km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.4 (ISK).
 ELL 0.40 122 iPg 07 04.50 -0.3
 eSg 07 10.00
 YER 0.97 281 iPn 07 15.50 0.5
 BCK 1.02 60 iPn 07 16.40 0.6
 CIN 1.28 300 eP 07 20.00 -0.3
 KHL 1.36 1 ePn 07 21.00 -0.5
 S.D. = 0.7 on 5 of 5 obs.

* APR 10, 1991 22h 54m 09.42 ± 2.28s
 31.351 S ± 10.2km 68.837 W ± 15.1km
 DEPTH = 95.9 ± 23.1 km
 SAN JUAN PROVINCE, ARGENTINA (137)
 RTCB 0.14 167 iPg 54 23.50 0.0
 ZON 0.24 145 iPd 54 23.50 -0.3
 eS 54 34.50
 RTLL 0.31 86 iPg 54 23.90 0.0
 CFA 0.57 117 ePg 54 25.80 0.2
 eS 54 38.00
 RTBS 0.61 239 iPd 54 26.00 0.2
 RTRS 1.29 335 iPg 54 33.20 0.0
 S 54 53.10
 MDZ 1.53 180 iP 54 36.20 -0.1
 iS 54 55.70
 S.D. = 0.2 on 7 of 7 obs.

* APR 10, 1991 23h 17m 46.24s
 61.777 N 150.066 W
 DEPTH = 37.2km
 SOUTHERN ALASKA (2)
 <AEIC>. ML 2.6 (AEIC).

PWA 0.15 145 iPd 17 53.31 0.4
 iS 17 59.53
 SUA 0.45 226 iPd 17 55.96 -0.4
 eS 18 04.61
 PLRM 0.48 112 iPg 17 55.67 -0.9
 S 18 03.80
 GH0 0.54 90 iPg 17 56.78 -0.8
 S 18 06.26
 PMS 0.59 155 ePd 17 57.38 -0.8
 eS 18 06.58
 CUT 0.64 351 ePd 17 57.99 -0.8
 SKT 0.72 287 iPg 17 58.94 -1.1
 eS 18 09.36
 KNK 0.85 115 ePg 18 01.00 -0.9
 S 18 13.84
 NCG 1.07 250 ePg 18 04.19 -0.8
 eS 18 18.88
 CRP 1.12 244 ePg 18 05.35 -0.5
 eS 18 20.73
 SPU 1.13 239 ePg 18 04.96 -0.8
 S 18 19.84
 HUR 1.22 9 ePg 18 06.64 -0.5
 eS 18 23.11
 BGL 1.23 246 ePg 18 06.71 -0.6
 eS 18 23.27
 CKL 1.24 243 ePg 18 06.69 -0.7
 eS 18 23.86
 SLKM 1.28 183 eP 18 07.07 -0.8
 eS 18 23.83
 SCM 1.30 86 iPg 18 07.74 -0.6
 S 18 25.44
 RDT 1.66 224 iPg 18 12.69 -0.8
 eS 18 34.19
 TRF 1.68 357 eP 18 13.48 -0.5
 GLI 1.69 121 ePg 18 12.17 -1.7
 SEW 1.71 170 eP 18 14.99 0.9
 RND 1.73 18 eP 18 13.85 -0.7
 DFR 1.74 228 ePg 18 13.98 -0.7
 REF 1.82 226 ePg 18 14.69 -1.2
 RDN 1.82 227 eP 18 14.77 -1.1
 KNIM 1.83 141 ePg 18 13.46 -2.4
 VZW 1.84 112 eP 18 15.53 -0.5
 NNL 1.84 200 eP 18 16.54 0.5
 NCT 1.85 230 ePg 18 15.71 -0.5
 S 18 38.86
 RS2 1.86 226 ePg 18 16.28 -0.1
 S 18 39.59
 RSO 1.86 226 eP 18 15.97 -0.4
 RDW 1.86 227 eP 18 16.19 -0.3
 TOA 1.87 78 ePg 18 16.82 0.3

RED 1.89 225 ePc 18 16.11 -0.7
VLZ 1.91 108 eP 18 15.11 -1.8
KLU 2.00 96 ePc 18 17.38 -0.9
LTI 2.05 147 eP 18 18.41 -0.5
SDG 2.25 68 eP 18 22.06 0.2
PAX 2.45 59 eP 18 25.10 0.3
GLB 3.01 94 eP 18 32.12 -0.6
39 obs. associated

% APR 11, 1991 00h 21m 28.10 ± 0.69s
43.106 N ± 7.4km 0.613 W ± 4.9km
DEPTH = 10.0km (geophysicist)

PYRENEES (378)
MD 1.0 (STR).

ESCF 0.04 134 Pg 21 30.22 0.0
ATE 0.07 254 Pg 21 30.52 0.0
Sg 21 32.67
OGE 0.12 58 Pg 21 31.17 0.1
ISSF 0.15 240 Pg 21 32.17 0.4
Sg 21 35.26
MADF 0.16 285 Pg 21 31.69 -0.1
Sg 21 35.07
LHE 0.19 182 Pg 21 32.21 -0.2
BOH 0.29 270 Pg 21 34.01 -0.2
S.D. = 0.3 on 7 of 7 obs.

% APR 11, 1991 00h 34m 12.40 ± 0.69s
40.635 N ± 7.0km 29.018 E ± 5.0km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.5 (ISK).

YLV 0.28 104 iPg 34 18.60 0.3
iSg 34 23.10
IZI 0.46 130 ePg 34 21.30 -0.4
eSg 34 28.10
HRT 0.53 69 ePg 34 23.00 -0.1
CTT 0.68 319 ePg 34 26.00 0.1
iSg 34 35.60
BNT 0.88 252 ePg 34 29.00 -0.4
DST 1.07 196 ePn 34 33.00 0.4
S.D. = 0.4 on 6 of 6 obs.

? APR 11, 1991 02h 13m 11.28 ± 1.18s
15.186 N ± 17.0km 147.708 E ± 18.9km
DEPTH = 33.0km (normol)
4.0mb (3 obs.)

MARIANA ISLANDS REGION (215)

GUA 3.17 239 eP 14 00.00 0.0
eS 14 38.60
PJG 3.18 240 eP 13 59.10 -1.0
WB2 37.30 201 eP 20 23.00 0.7
0.6s 2.40nm 4.2mb
WRA 37.30 201 P 20 27.00 4.7X
1.1s 2.00nm 3.9mb
GUN 58.36 294 P 23 07.20 0.8
KKN 58.89 293 P 23 10.80 0.8
GKN 59.45 294 P 23 13.40 -0.4
YKA 80.18 28 eP 25 18.60 -0.9
0.6s 1.10nm 4.0mb
S.D. = 1.0 on 7 of 8 obs.

? APR 11, 1991 02h 28m 31.30 ± 2.43s
2.842 N ± 25.3km 97.638 E ± 13.8km
DEPTH = 33.0km (normol)

NORTHERN SUMATRA (706)

TSI 1.13 55 eP 28 52.00 1.1
iS 29 05.00
PSI 1.29 96 iPd 28 53.50 0.4
BSI 3.52 319 eP 29 25.00 -0.1
IPM 3.80 63 ePd 29 27.30 -1.6
0.6s 20.80nm
SNG 5.23 34 eP 29 49.50 0.2
S.D. = 1.4 on 5 of 5 obs.

? APR 11, 1991 02h 49m 15.49 ± 2.47s
30.983 S ± 10.6km 68.192 W ± 21.5km
DEPTH = 10.0km (geophysicist)

SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.42 214 iPd 49 24.30 0.2
S 49 28.50
CFA 0.62 184 eP 49 28.00 -0.1
S 49 36.30

RTBS 1.27 238 ePd 49 38.90 -0.2
S 49 55.50
RTRS 1.36 306 ePd 49 40.50 0.1
(S) 49 58.20
S.D. = 0.3 on 4 of 4 obs.

APR 11, 1991 02h 53m 27.67 ± 0.66s
41.085 N ± 6.2km 22.516 E ± 5.2km
DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)
ML 1.8 (SKO).

GRG 0.16 214 iPc 53 31.30 0.0
eS 53 34.18
VAY 0.24 10 iPg 53 32.40 -0.4
i 53 35.60
iSg 53 37.00
KNT 0.30 75 iPc 53 34.42 0.5
eS 53 39.18
THE 0.57 143 ePd 53 38.66 -0.5
eS 53 46.98
SOH 0.69 112 ePc 53 41.42 0.1
eS 53 51.22
SRS 0.81 87 ePc 53 43.38 -0.1
eS 53 55.50
FNA 0.91 251 iPc 53 45.42 0.2
eS 53 56.94
S.D. = 0.4 on 7 of 7 obs.

? APR 11, 1991 02h 55m 02.72 ± 2.19s
16.861 S ± 43.6km 68.500 W ± 25.9km
DEPTH = 170.0km (geophysicist)

PERU-BOLIVIA BORDER REGION (118)

CNCB 0.50 84 iPd 55 26.80 -0.5
iS 55 49.00
LPB 0.50 50 iPd 55 27.20 0.0
S 55 52.00
ZOBO 0.69 32 iPd 55 28.80 0.5
S 55 54.00
CCH 2.31 103 P 55 44.00 0.6
SIV 7.18 84 P 56 45.80 -0.4
S.D. = 0.7 on 5 of 5 obs.

? APR 11, 1991 03h 17m 02.14 ± 7.22s
51.166 N ± 46.5km 20.280 E ± 47.3km
DEPTH = 10.0km (geophysicist)

POLAND (548)
ML 2.6 (KRA).

KRA 1.13 191 ePg 17 23.70 0.4
iSg 17 33.20
SPC 1.98 181 ePn 17 36.00 -0.2
iSg 17 56.60
KSP 2.54 264 iPg 17 44.20 0.2
iS 18 08.10
PRU 3.84 254 Pg 18 03.50 0.9
Sg 18 40.00
e 18 46.80
KHC 4.77 247 ePn 18 14.50 -1.2
ePg 18 18.20
e 19 04.50
eSg 19 08.30
S.D. = 1.1 on 5 of 5 obs.

* APR 11, 1991 03h 34m 09.87 ± 2.28s
36.945 N ± 17.1km 28.210 E ± 15.4km
DEPTH = 10.0km (geophysicist)

DODECANESE ISLANDS (369)

YER 0.20 17 iPg 34 14.50 0.2
CIN 0.66 351 iPg 34 22.00 -1.0
iSg 34 37.00
ELL 1.38 98 iPn 34 34.50 -0.7
IZM 1.63 333 ePn 34 39.50 0.7
KHL 1.73 37 iPn 34 40.10 -0.1
BCK 1.97 74 iPn 34 44.50 0.8
S.D. = 1.0 on 6 of 6 obs.

* APR 11, 1991 05h 16m 13.27 ± 1.27s
37.725 N ± 20.9km 118.886 W ± 7.6km
DEPTH = 5.0km (geophysicist)

CALIFORNIA-NEVADA BORDER REGION (40)
MD 2.8 (GM).

BONR 0.52 63 iP 16 23.70 0.0
CMB 1.23 285 eP 16 35.80 -0.8

TNP 1.37 74 eP 16 38.70 -0.5
KVN 1.46 25 eP 16 41.00 0.5
ARN 2.14 261 eP 16 50.80 0.7
ORV 2.74 313 eP 17 04.00 5.2X
S.D. = 0.9 on 5 of 6 obs.

APR 11, 1991 06h 35m 12.94 ± 0.63s
44.150 N ± 5.7km 12.786 E ± 7.5km
DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)
MD 3.1 (TRI).

RSM 0.33 227 P 35 20.30 0.6
eSg 35 25.70
ARV 0.66 170 P 35 24.40 -1.7
eSg 35 34.40
SFI 0.71 252 P 35 27.50 0.6
eSg 35 39.50
CRE 0.80 229 P 35 30.00 1.5
eSg 35 40.50
MME 1.50 272 P 35 41.10 1.0
BDI 1.58 268 P 35 40.00 -1.1
RIY 1.65 43 e(Pn) 35 41.60 -0.4
iSg 35 43.60
iSn 36 01.30
TRI 1.71 24 e(Pn) 35 40.70 -2.2
i 35 45.30
i 36 02.00
i(Sg) 36 08.70
MNS 1.77 183 P 35 43.70 -0.1
AQU 1.85 166 P 35 45.00 0.0
CEY 1.97 36 e(Pn) 35 49.30 2.6
eSn 36 15.70
VOY 2.04 22 e(Pn) 35 50.00 2.2
eSn 36 12.30
CTI 2.06 337 Pd 35 46.90 -1.2
eSg 36 12.40
VBY 2.22 52 eP 35 57.20 6.9X
e(Sn) 36 25.40
LJU 2.26 33 e(Pn) 35 57.50 6.6X
e(Sn) 36 27.00
FVI 2.44 360 P 35 53.00 -0.4
SCE 2.99 346 iPd 36 01.50 0.2
VAI 3.33 302 P 36 04.60 -1.4
eSn 36 42.60
S.D. = 1.5 on 16 of 18 obs.

* APR 11, 1991 06h 39m 55.18 ± 0.58s
5.798 S ± 14.5km 76.858 W ± 22.0km
DEPTH = 33.0km (normol)
4.0mb (2 obs.)

NORTHERN PERU (111)

HUA 6.38 166 eP 41 30.20 0.4
eS 42 55.50
ZOBO 13.48 141 P 43 06.00 -1.1
Z 20s 0.29um
LR 48 32.00
LPB 13.69 142 P 43 10.00 0.2
CNCB 13.98 142 P 43 14.00 0.3
e 43 23.00
CCH 15.57 139 P 43 41.50 7.2X
SIV 18.50 124 P 44 11.00 0.1
ALQ 49.19 328 eP 48 42.00 -0.5
0.9s 2.10nm 4.2mb
ANMO 49.20 328 P 48 42.20 -0.3
YKA 73.95 343 eP 51 28.00 -0.8
0.8s 1.00nm 3.9mb
INK 83.68 342 eP 52 22.00 0.5
MBC 85.52 351 eP 52 32.00 1.4
S.D. = 0.8 on 10 of 11 obs.

APR 11, 1991 08h 06m 05.61 ± 0.96s
2.830 N ± 3.5km 128.574 E ± 5.7km
DEPTH = 224.3 ± 9.6 km
4.9mb (18 obs.)

HALMAHERA (267)

DAV 5.18 325 eP 07 24.10 0.6
BAG 15.62 330 eP 09 36.00 0.1
eS 12 29.00
MTN 15.78 171 eP 09 37.00 -0.6
KNA 18.46 179 eP 10 06.80 -0.4
0.5s 32.00nm 5.1mb
WB2 23.33 166 iPd 10 54.70 -0.6
0.9s 41.90nm 5.0mb
e 13 32.80

INK	90.32	22	eP	18	41.50	-0.4
KEV	91.36	340	eP	18	30.00	-16.7X
MBC	92.42	13	eP	18	52.00	0.5
	1.2s		9.00nm			4.7mb
YKA	99.54	25	eP	19	23.60	-0.6
	0.8s		1.60nm			4.5mb
NB2	100.40	334	Pdiff	19	26.20	-1.8
	0.9s		2.50nm			4.7mb
FRB	112.37	8	ePKP	24	13.00	-2.8
GOL	114.98	43	ePKP	24	22.30	0.2
	0.7s		4.25nm			
ANMO	116.25	49	ePKP	24	25.70	1.1
	0.7s		2.57nm			
ALO	116.25	49	ePKP	24	25.00	0.4
KIC	132.50	281	PKP	24	55.40	-0.6
LKO	132.71	286	PKP	24	56.80	0.4
LIC	132.81	281	PKP	24	55.80	-0.7
Z	20s		0.40um			5.1msz
LCCH	144.16	151	ePKP	25	16.00	-0.7
TACH	144.32	151	ePKP	25	16.40	-0.6
PCH	144.55	152	ePKPd	25	17.50	0.0
ROCH	144.84	151	ePKPd	25	19.00	0.8
PEL	144.86	151	iPKPc	25	18.50	0.5
	1.0s		270.00nm			
UPA	149.63	67	ePKPc	25	31.20	5.2X
	1.2s		134.38nm			
CNCB	158.61	132	PKP	25	41.00	2.2
LPB	158.69	131	PKP	25	42.00	3.3X
ZOBO	158.83	130	PKP	25	41.20	2.1
			i	26	19.00	
SIV	163.84	145	PKP	25	45.00	1.5
			i	26	39.00	
S.D. = 1.0 on 83 of 87 obs.						
APR 11, 1991 08h 11m 29.78±0.82s						
41.161 N ± 7.3km 22.439 E ± 7.0km						
DEPTH = 10.0km (geophysicist)						
YUGOSLAVIA (383)						
ML 1.8 (SKO).						
VAY	0.19	32	iPg	11	34.80	0.8
			iSg	11	38.20	
GRG	0.21	188	iPc	11	33.90	-0.4
			eS	11	36.78	
KNT	0.35	90	iPc	11	37.42	0.5
			iS	11	42.33	
SOH	0.77	116	ePc	11	45.78	0.9
			eS	11	55.38	
KKB	0.86	34	iPg	11	46.00	-0.3
			eSg	11	58.00	
SRS	0.87	93	iPd	11	46.62	0.1
			eS	11	58.38	
FNA	0.89	245	ePd	11	47.18	0.3
			eS	11	59.30	
MMB	1.06	66	ePg	11	50.00	0.2
			eSg	12	05.00	
RZN	1.79	72	eP	11	59.00	-2.1
			eS	12	25.00	
			iSg	12	30.00	
S.D. = 1.1 on 9 of 9 obs.						
APR 11, 1991 08h 12m 43.90±0.18s						
5.282 S ± 4.3km 151.697 E ± 4.4km						
DEPTH = 54.7km (3 depth phases)						
5.3mb (33 abs.)						
NEW BRITAIN REGION (192)						
CENTROID, MOMENT TENSOR (HRV)						
Data Used: GDSN						
L.P.B.: 18S, 35C						

PMG	6.09	227	eP	14	16.00	2.4
			eS	15	38.00	
MNDI	8.05	263	eP	14	52.00	11.0X
VSG	8.88	117	eP	14	50.00	-2.3
SVO	8.92	116	eP	14	54.00	1.1
HNR	9.16	117	P	14	59.00	2.8
CTA	15.64	199	iPd-	16	23.90	1.5
	1.7s	392.31nm				5.3mb
Z	21s	8.96um				4.8MsZ
			iS	19	18.00	
QIS	19.20	217	iPd	17	06.80	0.5
	0.9s	106.00nm				5.1mb
GUA	19.87	340	eP	17	14.80	1.3
	1.0s	464.00nm				5.8mb
PJG	19.94	340	eP	17	14.80	0.6
PVC	20.43	129	iPc	17	27.00	7.7X
RMO	21.28	187	eP	17	27.00	-0.9
			e	17	40.00	55km
MTN	21.64	248	eP	17	31.00	-0.6
DZM	21.96	141	iPc	17	35.50	0.7
BRS	22.01	177	iPd	17	36.20	1.0
			i(Pp)	17	46.00	36kmX
			e	17	52.00	
			i(S)	21	40.00	
WB2	22.30	228	iPd	17	37.70	-0.4
	1.0s	204.30nm				5.5mb
			e	20	11.90	
OLP	22.35	198	eP	17	42.00	3.5X
KNA	24.80	243	eP	18	02.80	0.4
ASPA	25.06	221	eP	18	02.10	-2.8
	0.9s	61.20nm				5.1mb
			iS	22	32.80	
			eScP	25	14.80	
COO	25.16	180	eP	18	09.00	3.2X
CMS	26.64	191	e(P)	18	17.00	-2.4
			i	18	21.40	16kmX
STK	28.10	198	eP	18	52.70	20.0X
	0.8s	3.80nm				
			e	19	06.40	55km
			eS	23	43.40	
			eScP	25	45.40	
DAV	28.82	295	eP	18	43.00	3.7X
WARB	31.71	226	iPd	19	04.20	-0.6
ADE	31.89	200	e(P)	18	55.00	-11.3X
FORR	33.75	218	iPd	19	20.90	-1.5
MBL	34.69	240	eP	19	29.70	-1.0
			i	19	31.30	6kmX
OCP	36.24	303	eP	19	47.00	3.2X
BAG	37.57	306	eP	19	56.00	0.7
	1.2s	215.63nm				6.0mb
			eS	25	39.00	
SNZO	41.35	154	eP	20	40.00	14.0X
			PP	22	20.00	
			S	26	28.00	
BAL	41.43	228	eP	20	27.00	0.1
NWAO	42.27	225	eP	20	38.00	4.2X
			e	26	58.00	
MUN	42.50	227	eP	20	36.50	0.8
	1.0s	106.00nm				5.5mb
RKG	43.05	224	eP	20	44.00	3.9X
MAT	43.48	344	eP	20	42.00	-1.5
	1.0s	15.00nm				4.7mb
Z	20s	1.77um				5.0MsZ
			eS	26	46.00	
QZH	44.04	314	Pc	20	49.50	1.4
	0.8s	50.00nm				5.3mb
Z	21s	2.20um				5.0MsZ
E	20s	1.30um				
			S	27	19.50	
HKC	45.82	308	eP	21	05.20	2.8
SSE	46.45	323	P	21	08.50	1.2
	2.0s	76.00nm				5.3mb
Z	20s	3.40um				5.3MsZ
N	17s	1.40um				
E	18s	1.40				

IGT	1.63	171	eP	37 35.17	0.4	ANT	1.47	307	iPc	46 31.80	0.0	SSE	23.78	349	eP	07 44.00	3.1X
			eS	37 59.76					iS	46 45.60			Z	20s	0.30um		3.8msz
HCY	1.72	320	iPnc	37 36.51	0.5	CCH	7.69	22	P	48 01.00	4.1X	IPM	25.55	264	ePd	08 02.90	5.0X
			iSn	38 01.72		CNCB	7.82	8	P	47 58.00	-0.8	PCT	25.58	288	eP	08 02.00	3.9X
IVA	1.73	358	iPnc	37 37.62	1.4	LPB	8.07	7	P	48 04.00	1.8		0.4s	1.90nm			3.9mb X
			iSn	38 04.32		ZOBO	8.33	7	P	48 05.00	-0.9	GYA	26.53	317	P	08 08.40	1.5
LCI	1.75	243	P	37 35.60	-0.8	ARE	8.38	344	e(P)	48 14.00	7.6X						
			eSn	37 59.60					iS	49 25.20		NST	27.01	289	eP	08 22.60	4.3X
NKY	1.83	336	iPnd	37 39.28	1.6	SIV	11.41	43	P	48 46.80	0.0	WB2	28.55	164	eP	08 23.00	-2.1
			iSn	38 06.10					S.D. = 1.5	on 5 of 7 obs.			0.7s	5.90nm			4.3mb
GRG	1.83	95	eP	37 37.28	-0.4	? APR 11, 1991	08h 50m 03.70	± 0.76s							iPcP	11 34.30	
			eS	38 05.08		11.809 N ± 9.3km	92.578 E ± 9.3km								eS	12 59.90	
VAY	1.95	84	iPn	37 38.40	-0.9	DEPTH = 33.0km (normal)									eScP	14 15.20	
			Lg	38 12.80		4.7mb (2 obs.)											
BRY	2.06	329	iPnd	37 41.87	0.8	ANDAMAN ISLANDS REGION	(703)					MAT	30.59	19	eP	08 40.00	-3.2X
			iSn	38 10.42								XAN	30.82	331	P	08 42.00	-3.2X
BRT	2.13	264	P	37 43.50	1.5	BDT	8.24	48	eP	52 04.00	0.1	QIS	30.90	156	iPc	08 44.50	-1.5
			eSn	38 11.40		KOD	14.92	265	eP	53 34.40	0.1		0.4s	15.00nm			5.1mb
LIT	2.17	118	eP	37 42.38	-0.1	PKI	17.06	338	P	54 02.16	0.4	CD2	31.39	320	eP	08 48.20	-2.1
			eS	38 12.20		GUN	17.21	340	P	54 03.70	0.1	ASPA	32.02	167	eP	08 54.50	-1.3
KNT	2.19	89	eP	37 42.72	-0.2	DMN	17.21	337	P	54 05.00	1.5		0.7s	9.50nm			4.7mb
			eS	38 12.36		KKN	17.31	338	P	54 03.40	-1.3						
PLE	2.23	349	iPnd	37 45.42	1.9	GKN	17.75	336	P	54 09.32	-0.8	YAMJ	32.68	20	P	09 01.00	-0.3
			iSn	38 16.45		WRA	51.82	127	P	59 11.00	-0.1	BJI	33.49	346	eP	09 06.50	-1.8
THE	2.31	102	eP	37 45.46	0.9		0.6s	4.10nm		4.6mb		WARB	33.71	180	iPd	09 10.30	-0.1
			eS	38 14.58		WB2	51.83	127	eP	59 11.10	0.0	OFUJ	34.06	21	eP	09 13.40	0.1
KKB	2.43	72	iP	37 46.00	-0.3		0.4s	4.90nm		4.8mb		SNY	34.06	356	Pc	09 11.90	-1.3
			eS	38 17.00			S.D. = 0.9	on 9 of 9 obs.				LZH	35.02	327	eP	09 22.50	0.7
SOH	2.56	96	eP	37 48.93	0.7	? APR 11, 1991	08h 57m 18.68	± 0.87s					1.4s	22.00nm			4.9mb
SRS	2.72	89	eP	37 50.28	-0.1	39.085 N ± 7.9km	27.604 E ± 13.4km					Z	30s	0.57um			4.1mszX
AGG	2.78	139	eP	37 52.84	1.6	DEPTH = 10.0km (geophysicist)						MDJ	36.84	4	eP	09 36.50	-0.3
			eS	38 27.88		TURKEY	(366)						1.0s	50.00nm			5.4mb
VTS	2.80	58	iPc	37 52.00	0.3	MD 2.7 (ISK).						MRRJ	36.86	18	eP	09 37.50	0.5
			iS	38 27.00								HOQJ	37.55	21	eP	09 44.50	1.8
MMB	2.84	80	eP	37 53.00	0.8	IZM	0.74	201	iPg	57 33.20	0.0	MRWA	38.11	195	eP	09 50.00	2.4
			iS	38 23.00					eSg	57 45.10		KUSJ	38.68	21	P	09 53.40	1.2
VLS	3.00	171	eP	37 54.60	0.3	DST	0.95	56	ePn	57 36.70	-0.1	ASAJ	38.88	19	P	09 55.10	1.2
TDS	3.16	243	P	37 57.90	1.3	BNT	1.29	11	ePn	57 42.80	0.2	GTA	39.63	327	eP	10 01.20	0.9
HVAR	3.33	309	ePn	37 57.70	-1.3	KCT	1.30	26	ePn	57 42.80	0.1		0.5s	10.00nm			5.0mb
			iSn	38 38.10		KGT	1.38	350	iPn	57 43.80	-0.2						
MGR	3.53	255	P	38 01.80	0.0		S.D. = 0.2	on 5 of 5 obs.				LSA	39.75	308	eP	10 03.40	1.5
			eSn	38 44.10		? APR 11, 1991	09h 11m 33.01	± 0.98s				MUN	40.69	194	eP	10 09.00	0.0
RZN	3.59	80	ePc	38 04.00	1.1	39.054 N ± 10.1km	27.704 E ± 15.1km					BRS	43.18	145	iPc	10 28.80	-0.6
SGO	3.60	262	P	38 02.20	-0.7	DEPTH = 10.0km (geophysicist)									i	10 43.00	
PLD	3.66	73	iPd	38 05.00	1.3	TURKEY	(366)					GUN	43.32	303	P	10 31.00	0.0
			eS	38 52.00		MD 2.7 (ISK).						PKI	43.60	302	P	10 33.00	-0.2
BEO	3.69	5	ePn	38 06.50	2.4X	IZM	0.74	208	ePg	11 47.60	0.0		0.6s	14.00nm			5.0mb
			eSn	38 52.00					eSg	12 00.10		KKN	43.78	302	P	10 34.40	-0.2
DUI	4.20	279	P	38 10.50	-0.9	DST	0.90	52	ePn	11 50.20	-0.2		0.6s	18.00nm			5.1mb
BZS	4.62	14	ePc	38 13.50	-3.9X	KCT	1.30	23	ePn	11 57.30	0.3	DMN	43.87	302	P	10 34.80	-0.5
SDI	4.68	279	P	38 18.10	-0.2	KGT	1.43	348	iPn	11 58.80	-0.2	ADE	43.99	166	eP	10 36.10	0.2
			eSn	39 10.40			S.D. = 0.4	on 4 of 4 obs.					0.5s	42.25nm			5.5mb
VLI	4.98	152	eP	38 23.50	1.1	& APR 11, 1991	09h 31m 33.30s					GKN	44.39	302	P	10 38.80	-0.6
VBY	5.56	323	ePn	38 31.70	1.0	34.350 N	118.300 W						0.4s	12.00nm			5.1mb
			iSn	39 33.90		DEPTH = 5.0km						HYB	47.70	286	eP	11 05.50	0.0
ARV	5.73	297	P	38 31.00	-2.1	SOUTHERN CALIFORNIA	(43)								e	11 21.00	
RIY	5.86	318	ePn	38 33.80	-1.1	<PAS-P>. ML 2.6 (PAS)..	Felt ot					KOD	48.50	277	eP	11 12.60	0.5
LJU	6.30	323	eP	38 42.00	0.9	Tujungo.						GBA	48.54	281	Pc	11 11.80	-0.2
			e(Sn)	39 54.00									0.7s	11.80nm			5.0mb
TRI	6.43	317	e(Pn)	38 38.70	-4.2X	MWC	0.24	122	iPc	31 38.20	0.0	WMQ	49.39	323	P	11 18.20	-0.1
			i(Sn)	39 52.00		SBB	0.52	49	iPd	31 43.00	-0.7				eS	18 17.00	
			i(Sg)	40 34.90		ABL	0.91	304	eP	31 49.80	-1.5	YAK	54.23	2	iP	11 52.00	-2.1
VOY	6.59	320	ePn	38 43.40	-1.9	CIS	0.94	185	ePc	31 51.00	-0.8	QUE	59.92	300	eP	12 34.60	-0.6
			eSn	39 58.50		PEC	1.05	115	eP	31 52.80	-0.8	FBA	81.22	25	P	14 42.00	-0.8
PSZ	6.77	359	eP	38 49.10	1.3	PLM	1.56	129	eP	32 00.30	-1.6	INK	86.54	22	eP	15 10.00	0.3
FVI	7.54	319	P	38 56.50	-1.9		6 obs. associated					MBC	88.12	13	eP	15 18.00	0.8
CTI	7.79	312	Pd	38 58.50	-3.6X								1.0s	14.00nm			5.0mb
OBN	17.76	33	eP	41 12.00	-2.5							HFS	94.41	332	ePKP	15 44.30	-2.4
	Z	24s		1.70um	4.9mszX								0.9s	5.90nm			5.0mb
	N	24s		0.70um		APR 11, 1991	10h 02m 34.85	± 1.27s				YKA	95.96	24	eP	15 53.40	-0.3
	E	24s		1.10um		7.727 N ± 5.4km	126.537 E ± 8.6km						0.8s	5.50nm			5.1mb
			e	47 32.00		DEPTH = 81.6 ± 11.9 km						ALQ	114.45	46	e(PKP)	21 08.30	0.5
			LR	16 00.00		5.0mb (16 obs.)						KIC	129.43	285	PKP	21 37.70	1.0
NUR	19.60	7	eP	41 35.00	-2.0	MINDANAO, PHILIPPINE ISLANDS	(259)					UPA	149.17	58	ePKP	22 16.50	4.5X
NB2	20.63	348	P	41 44.40	-3.5X	DAV	1.15	236	iPd+	02 56.00	0.0	CNCB	163.20	124	PKP	22 32.00	1.7
	0.6s	1.30nm				TSM	9.11	248	ePd	04 49.70	4.0X	LPB	163.24	123	ePKP	22 38.00	7.9X
KAF	21.34	8	iP	41 51.20	-3.8X	BAG	10.41	327	eP	05 05.00	1.5	ZOBO	163.35	122	PKP	22 32.20	1.8
	0.5s	3.10nm				QIZ	19.73	306	Pc	07 00.80	0.1				i	23 23.90	
	S.D. = 1.2	on 47 of 53 obs.					0.7s	20.00nm		4.5mb							
? APR 11, 1991	08h 46m 05.55	± 4.68s				GZH	19.85	322	eP	07 00.00	-1.9	? APR 11, 1991	10h 47m 46.28	± 0.99s			
24.590 S	± 44.9km	69.126 W	± 18.5km			MTN	20.94	167	eP	07 13.00	-0.1	39.064 N	± 10.0km	27.666 E	± 15.3km		
DEPTH = 100.0km	(geophysicist)						0.3s	61.00nm		5.4mb		DEPTH = 10.0km	(geophysicist)				
NORTHERN CHILE	(123)					KNA	23.43	175	eP	07 39.00	1.4	TURKEY	(366)				
												MD 2.6 (ISK).					

IZM 0.74 206 ePg 48 00.70 -0.1
 DST 0.92 54 ePn 48 04.20 0.3
 KCT 1.30 24 ePn 48 09.80 -0.5
 KGT 1.41 349 iPn 48 12.30 0.3
 S.D. = 0.7 on 4 of 4 obs.

% APR 11, 1991 11h 58m 38.97±0.87s
 40.735 N ± 8.2km 29.205 E ± 7.7km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.5 (ISK).

ISK 0.35 342 ePg 58 46.00 -0.1
 HRT 0.36 76 iPg 58 46.80 0.4
 IZI 0.45 153 iPg 58 48.20 0.1
 CTT 0.72 305 iPg 58 53.20 0.1
 EYL 0.74 103 iPg 58 53.20 -0.4
 S.D. = 0.4 on 5 of 5 obs.

% APR 11, 1991 12h 17m 23.85±1.30s
 45.308 N ± 7.0km 0.217 E ± 12.2km
 DEPTH = 10.0km (geophysicist)

FRANCE (538)

ML 2.8 (LDG).

LFF 0.52 135 Pg 17 33.20 -1.2
 RJF 0.92 90 Pg 17 42.30 0.9
 LPO 0.93 132 Pg 17 40.90 -0.7
 LSF 1.32 44 Pg 17 49.80 1.6
 MFF 1.32 349 Pg 17 47.60 -0.6
 CAF 1.36 106 Pg 17 50.00 1.1
 TCF 1.70 54 Pn 17 53.20 -0.6
 MAF 1.88 60 Pn 17 54.80 -1.5
 EPF 2.28 178 Pg 18 03.20 1.0
 S.D. = 1.3 on 9 of 9 obs.

% APR 11, 1991 12h 30m 43.66s
 59.638 N 152.776 W
 DEPTH = 92.4km
 4.0mb (3 obs.)

SOUTHERN ALASKA (2)
 <AEIC>. Felt (III) at Port
 Graham.

AUE 0.41 228 iPd 30 57.55 -0.7
 AUH 0.44 231 iPd 30 57.85 -0.6
 AUI 0.45 228 iPd 30 57.70 -0.8
 XLV 0.57 108 iPc 30 58.71 -0.7
 HOM 0.58 87 iPc 30 59.11 -0.4
 PDB 0.73 282 iPd 31 00.04 -0.9
 RED 0.78 0 iPc 31 00.73 -0.8
 CNPM 0.79 98 iPc 31 00.80 -0.8
 RSD 0.83 1 iPc 31 01.37 -0.8
 RS2 0.83 1 iPc 31 01.45 -0.7
 CDD 0.84 212 iPd 31 00.97 -1.1
 RDW 0.85 359 iPc 31 01.53 -0.8
 >NNL 0.85 61 iPc 31 02.23 0.1
 REF 0.85 2 iPc 31 01.64 -0.8
 RDN 0.88 0 iPc 31 01.92 -0.7
 MCNL 0.92 241 iPd 31 01.87 -1.0
 NCT 0.93 355 iPc 31 02.36 -0.8
 RDT 0.96 11 iPc 31 02.48 -0.9
 DFR 0.96 3 iPc 31 02.77 -0.7
 BRK 0.97 82 iPc 31 02.48 -1.0

SYI 1.05 169 ePd 31 03.74 -0.6
 NKA 1.35 34 iPc 31 09.06 1.1
 SLKM 1.55 55 ePc 31 09.17 -1.4
 CKL 1.58 8 iPc 31 10.48 -0.6
 SPU 1.59 13 iPc 31 10.49 -0.6

BGL 1.64 7 iPc 31 11.38 -0.5
 CRP 1.66 10 iPc 31 11.72 -0.5
 SEW 1.74 73 eP 31 11.28 -1.7

NCG 1.80 10 iPc 31 13.40 -0.5
 SVW 2.04 317 iPc 31 16.50 -0.6
 SUA 2.09 28 iPc 31 17.26 -0.5
 PMS 2.27 43 ePc 31 19.18 -0.9
 SKT 2.43 14 iPc 31 21.32 -0.9

PWA 2.47 34 ePc 31 22.22 -0.6
 LTI 2.52 79 eP 31 21.57 -1.9
 MTU 2.61 80 eP 31 23.88 -0.9
 KNIM 2.63 72 ePc 31 22.74 -2.3

PLRM 2.66 41 ePc 31 23.64 -1.7
 PMR 2.66 41 eP 31 23.60 -1.8
 KNK 2.78 48 ePc 31 25.35 -1.7
 GHO 2.86 40 ePc 31 26.72 -1.5
 CUT 3.03 23 ePc 31 29.54 -0.9

GLI 3.09 64 ePc 31 28.70 -2.6
 HIN 3.24 74 ePc 31 30.99 -2.4
 SCM 3.47 48 eP 31 34.49 -2.0
 VLZ 3.53 62 eP 31 35.14 -2.2
 CVA 3.64 72 eP 31 35.89 -2.9

TTA 3.65 336 iPc 31 37.70 -1.4
 HUR 3.68 23 eP 31 38.53 -0.9
 KLU 3.86 58 eP 31 39.60 -2.4
 SGAM 3.89 74 ePc 31 39.43 -2.9
 TRF 4.01 16 eP 31 43.48 -0.6
 TOA 4.07 50 iPd 31 43.90 -0.9

RAGM 4.14 76 eP 31 43.09 -2.7
 RND 4.22 25 ePc 31 45.66 -1.3
 TZL 4.33 53 eP 31 46.78 -1.6
 HMT 4.33 77 eP 31 46.77 -1.7
 MCK 4.50 22 ePc 31 49.75 -1.0
 SDG 4.55 47 eP 31 49.36 -2.1

GLB 4.78 64 ePc 31 52.05 -2.7
 BWN 4.81 18 eP 31 53.93 -1.1
 PAX 4.86 43 eP 31 54.08 -1.7
 CROM 4.94 73 eP 31 54.57 -2.4
 WAX 5.04 76 eP 31 55.24 -3.1
 THY 5.07 39 eP 31 56.94 -1.7

TGL 5.09 73 eP 31 55.91 -3.1
 NEA 5.25 18 eP 31 58.80 -2.4
 DDM 5.30 35 eP 32 01.22 -0.7
 WRH 5.33 22 eP 31 59.79 -2.4
 BALM 5.37 70 ePc 32 00.50 -2.4

WRG 5.43 81 eP 32 01.89 -1.9
 HDA 5.51 27 eP 32 02.56 -2.3
 CCB 5.54 23 eP 32 02.71 -2.4
 RDS 5.64 21 eP 32 04.12 -2.4
 MDM 5.74 20 eP 32 05.59 -2.5

FBA 5.77 22 eP 32 06.00 -2.3
 DOT 5.78 42 eP 32 06.74 -1.8
 CTGM 5.84 72 eP 32 07.53 -2.0
 GLM 5.93 23 eP 32 07.96 -2.6
 IMA 6.47 357 eP 32 16.50 -1.6

PNL 6.78 84 eP 32 19.63 -2.7
 FYU 7.74 23 eP 32 32.48 -3.0
 INK 12.06 36 P 33 32.00 -1.5

YKA 18.50 65 eP 34 52.30 -2.6
 MBC 20.31 22 eP 35 11.50 -2.3

APR 11, 1991 12h 44m 36.58±1.51s
 41.671 N ± 13.3km 19.467 E ± 10.9km
 DEPTH = 10.0km (geophysicist)

ALBANIA (391)

ML 2.4 (TTG).

ULC 0.33 331 iPg 44 42.45 -1.1
 TTG 0.77 349 iPg 44 50.65 -1.0
 BDV 0.78 322 iPg 44 51.03 -0.7

PVY 1.00 22 iPg 44 54.66 -0.9
 HCY 1.06 317 iPg 44 57.41 0.9
 OHR 1.15 119 ePn 44 56.50 -1.6
 NKY 1.19 343 iPg 44 59.81 0.9

IVA 1.24 15 iPg 44 58.78 -0.9
 BRY 1.41 331 iPg 45 03.10 0.7

SKO 1.50 78 ePn 45 06.00 2.4
 PLE 1.66 358 iPnd 45 07.11 1.2

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

? APR 11, 1991 12h 56m 20.75±1.00s
 42.141 N ± 9.2km 13.209 E ± 9.3km
 DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)

AZI 0.23 132 P 56 26.20 0.6
 AQU 0.26 34 P 56 26.20 0.0
 MNS 0.46 302 P 56 30.20 0.0

SDI 0.63 134 P 56 32.80 -0.6
 S.D. = 0.8 on 4 of 4 obs.

APR 11, 1991 13h 03m 33.29±0.93s
 53.627 N ± 5.5km 163.384 W ± 3.0km
 DEPTH = 14.1 ± 5.2 km
 5.4mb (58 obs.) 4.6Msz (11 obs.)

UNIMAK ISLAND REGION (10)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 12S, 16C

Centroid Location:

Origin Time 13:03:39.8 1.4

Lat 53.87N 0.16 Lon 163.40W 0.26

Dep 15.0 FIX Half-duration 1.5

Moment Tensor: Scale 10¹⁶ Nm

Mrr= 2.90 0.46 Mtt=-3.44 0.50

Mff= 0.54 0.44 Mrt= 6.36 2.36

Mrf= 3.56 1.50 Mtf=-2.20 0.78

Principal Axes:

T Val= 7.43 Plg=58 Azm=325

N 1.47 4 61

P -8.90 32 154

Best Double Couple: Ma=8.2*10¹⁶

NP1: Strike=257 Dip=14 Slip= 106

NP2: 61 77 86

SDN 2.41 43 eP 04 13.70 1.0
 PDB 7.98 36 eP 05 30.50 -0.9
 ADK 8.26 263 eP 05 35.00 -0.3

SVW 8.59 26 ePd 05 40.40 0.4
 TTA 10.10 20 eP 06 00.00 -0.8
 PMR 11.03 38 eP 06 09.70 -3.7X
 KLU 12.21 43 eP 06 25.70 -3.9X

TOA 12.46 40 ePd 06 30.10 -2.7X
 IMA 13.37 17 eP 06 44.00 -1.0
 FBA 13.78 29 eP 06 47.00 -3.2X
 INK 20.33 32 P 08 06.00 -5.2X

YKA 26.66 51 eP 09 13.60 0.6
 LON 27.17 88 eP 09 18.80 0.9
 PNT 27.27 81 eP 09 27.00 8.3X

MBC 28.06 21 ePc 09 25.10 -0.5
 EDM 29.32 70 eP 09 37.00 -0.2
 WDC 30.27 99 e(P) 09 55.80 10.1X

ORV 31.54 99 eP 09 58.40 1.5
 SES 31.78 74 eP 09 58.00 -1.0
 CMB 33.19 100 e(P) 10 10.20 -1.2
 KVN 33.87 97 eP 10 17.40 0.0

																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					</
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

TURKEY (366)
MD 2.7 (ISK).

CTT 0.05 250 iPg 40 29.70 -0.8
ISK 0.44 103 iPg 40 36.70 -0.5
DMK 0.86 320 iPg 40 45.30 0.4
iSg 40 57.80
YLV 0.89 132 iPg 40 45.70 0.2
HRT 0.95 111 iPn 40 46.20 -0.3
IZI 1.11 138 ePn 40 49.20 0.0
KGT 1.15 232 ePn 40 50.20 0.3
EYL 1.39 115 ePn 40 54.70 0.8

S.D. = 0.6 on 8 of 8 obs.

? APR 11, 1991 14h 02m 33.62± 6.01s
16.241 N ±13.4km 61.801 W ±22.7km
DEPTH = 117.1 ± 53.7 km

LEEWARD ISLANDS (92)

PAG 0.24 151 eP 02 51.40 0.1
S 03 07.00
DOG 0.27 140 eP 02 51.07 -0.3
SEG 0.33 60 ePc 02 51.29 -0.2
S 03 05.90
MGG 0.57 125 ePc 02 52.25 0.4
S 03 07.90
SFG 0.58 89 ePc 02 52.21 0.2
DEG 0.72 84 ePd 02 52.82 -0.3
S 03 08.60
BBL 0.78 156 eP 02 53.50 -0.1
BPA 0.80 356 ePc 02 53.91 0.1
S 03 10.25

S.D. = 0.3 on 8 of 8 obs.

* APR 11, 1991 14h 23m 21.91± 0.90s
5.715 S ±10.5km 145.782 E ±20.5km
DEPTH = 33.0km (normal)
4.3mb (3 obs.)

EAST PAPUA NEW GUINEA REGION (207)

MDG 0.46 360 iPd 23 30.40 -1.6
YYYY 0.55 161 eP 23 36.48 3.0X
eS 23 40.68
MNDI 2.16 258 eP 24 07.00 10.5X
PMG 3.91 160 eP 24 20.00 -1.2
MTN 16.10 243 eP 27 12.00 4.5X
0.3s 74.00nm 5.3mb
WB2 17.99 217 iPc 27 31.70 0.5
0.5s 6.60nm 4.0mb
i 27 43.50
WARB 27.36 220 eP 29 07.00 0.8
MBL 29.46 236 eP 29 24.00 -1.2
FBA 85.39 23 (P) 35 59.00 2.0
YKA 99.48 28 eP 37 03.20 0.7
0.8s 0.60nm 4.2mb

S.D. = 1.6 on 7 of 10 obs.

? APR 11, 1991 14h 48m 54.36± 3.18s
34.932 N ±37.2km 26.642 E ±10.4km
DEPTH = 33.0km (normal)

CRETE (370)

NPS 0.91 292 ePb 49 10.10 -0.7
eSb 49 21.80
YER 2.57 31 iPn 49 35.50 0.9
ELL 3.21 55 iPn 49 45.00 1.2
VLI 3.50 302 ePn 49 48.50 0.7
BCK 4.07 51 ePn 49 55.00 -0.9
KHL 4.10 34 ePn 49 55.00 -1.4
DST 4.93 18 eP 50 08.20 0.1

S.D. = 1.2 on 7 of 7 obs.

? APR 11, 1991 15h 02m 15.60± 4.04s
6.677 S ±24.7km 147.432 E ±47.8km
DEPTH = 73.5 ± 22.7 km
3.6mb (1 obs.)

EAST PAPUA NEW GUINEA REGION (207)

YYYY 1.52 286 eP 02 42.20 0.7
eS 03 10.12
MDG 2.17 311 ePd 02 49.70 -0.5
eS 03 25.07
PMG 2.73 186 eP 02 58.00 0.0
WB2 18.31 223 eP 06 25.30 -1.0
0.4s 1.70nm 3.6mb
i 06 27.70
ASPA 21.32 216 eP 06 59.20 0.8

S.D. = 1.6 on 5 of 5 obs.

* APR 11, 1991 15h 32m 27.65± 0.58s
12.036 N ±10.0km 143.902 E ± 9.6km
DEPTH = 33.0km (normal)
5.0mb (11 obs.) 4.4Msz (1 obs.)
SOUTH OF MARIANA ISLANDS (210)

GUA 1.79 33 eP 32 57.80 1.1
eS 33 17.60
PJG 1.81 31 eP 32 57.30 0.3
MAT 24.93 349 eP 37 47.00 -2.4
eS 42 22.00
WB2 33.14 197 eP 39 00.70 -2.5
0.7s 3.90nm 4.4mb
i 39 02.30
i 39 09.80
e 39 24.70
e 39 37.00

BJI 37.10 324 eP 39 37.00 0.2
1.1s 21.00nm 4.9mb
Z 16s 0.29um 4.2MszX
TIY 38.00 318 Pc 39 45.00 0.5
Z 18s 0.49um 4.4Msz
E 18s 0.12um
BTO 41.17 320 eP 40 11.60 0.8
CD2 41.53 303 P 40 14.00 0.2
WARB 41.53 204 eP 40 15.00 1.2
SNG 42.92 268 eP 40 26.70 1.4
LZH 43.28 311 Pc 40 31.00 2.8X
1.4s 27.00nm 4.8mb
Z 17s 0.24um 4.2MszX
GTA 47.52 313 eP 41 02.40 0.5
0.5s 10.00nm 5.1mb
Z 16s 0.30um 4.4MszX

PP 41 07.00
YAK 50.95 351 eP 41 26.80 -0.9
LSA 51.88 298 P 41 37.00 1.1
GUN 56.29 296 Pc 42 08.24 0.0
0.8s 27.00nm 5.3mb
PKI 56.68 295 P 42 10.50 -0.5
KKN 56.81 295 P 42 11.58 -0.2
DMN 56.96 295 P 42 12.56 -0.3
GKN 57.39 296 Pc 42 15.50 -0.3
WMO 57.53 315 P 42 16.90 0.4
2.0s 100.00nm 5.5mb
HYB 63.18 284 eP 42 55.50 0.2
POO 67.53 285 iPd 43 23.20 -0.2
FBA 70.02 25 P 43 35.40 -2.5
QUE 72.85 298 eP 43 56.70 0.9
INK 76.15 22 eP 44 14.00 0.2
MBC 80.00 14 eP 44 35.50 0.7
0.5s 7.00nm 4.9mb
YKA 84.66 27 eP 44 59.10 0.0
0.9s 6.10nm 4.8mb
TNP 89.54 51 P 45 25.00 1.4
OBN 89.87 327 P 45 20.00 -4.5X
1.2s *****nm 8.3mb X
e 45 25.00

KAF 91.73 335 iP 45 31.80 -1.2
0.7s 5.60nm 5.1mb
FFC 93.62 32 eP 45 42.00 0.2
0.9s 10.00nm 5.2mb
APO 97.50 338 eP 45 58.00 -1.5
0.5s 0.90nm 4.6mb
LIC 144.17 299 PKP 52 01.30 -1.5
ZOBO 148.68 102 PKP 52 13.30 2.4
LPB 148.69 102 ePKP 52 14.00 3.3X
CNCB 148.78 103 PKP 52 15.00 4.0X

S.D. = 1.2 on 32 of 36 obs.

APR 11, 1991 16h 02m 16.36± 0.84s
27.608 N ± 7.0km 56.509 E ± 3.3km
DEPTH = 47.9 ± 8.5 km
4.7mb (34 obs.)

SOUTHERN IRAN (353)

DHR 5.83 259 iPc 03 43.70 1.2
RYD 9.35 254 iPc 04 28.70 -2.7
eS 06 12.00
QUE 9.50 72 eP 04 32.60 -1.1
1.0s 90.50nm 5.8mb X
eS 06 18.20
KER 10.50 312 eP 04 49.00 1.8
KMSA 13.13 239 ePc 05 18.70 -3.7X
GAR 16.17 42 eP 06 02.40 0.4
GLH 18.72 291 eP 06 33.00 -0.6
MML 18.88 290 eP 06 36.50 1.0

RMN 19.34 284 eP 06 41.00 0.1
HLW 22.17 282 eP 07 11.00 1.2
HYB 22.72 112 eP 07 17.00 1.8
BBTK 23.14 308 eP 07 21.00 1.7
GBA 23.98 121 Pc 07 27.60 0.1
0.4s 1.60nm 3.9mb
GKN 24.86 82 P 07 36.10 -0.1
DMN 25.32 83 P 07 40.20 -0.4
KKN 25.45 83 P 07 41.70 -0.1
PKI 25.59 83 P 07 42.88 -0.3
0.8s 22.00nm 4.8mb
GUN 25.97 82 P 07 46.52 -0.2
0.7s 30.00nm 4.9mb
DST 26.01 305 eP 07 47.00 0.3
OBN 31.04 338 P 08 31.00 -0.6
1.0s *****nm 8.0mb X
e 08 33.00
OHR 32.18 304 eP 08 42.00 0.2
0.7s 54.00nm 5.5mb
KRA 35.72 319 eP 09 12.20 0.0
SRO 35.85 315 eP 09 12.70 -0.5
ZST 36.74 315 eP 09 19.70 -1.1
KBA 38.84 312 i(P) 09 39.20 0.5
0.8s 11.90nm 4.8mb
KHC 39.25 315 P 09 41.50 -0.4
1.0s 10.50nm 4.6mb
NUR 39.33 336 iP 09 42.70 0.4
CLL 40.28 318 eP 09 50.00 -0.3
GRF 40.89 315 ePc 09 56.10 0.8
0.9s 24.00nm 4.9mb
Z 19s 0.10um 3.7Msz
OSS 40.89 310 ePd 09 56.30 0.7
LLS 41.70 310 ePd 10 02.10 -0.2
UPP 41.70 332 iP 10 00.50 -1.3
SLE 42.21 312 iPd 10 05.80 -0.4
ZLA 42.22 311 ePd 10 06.20 -0.1
MMK 42.27 309 ePd 10 06.60 -0.4
SBF 42.37 306 eP 10 07.40 -0.2
0.8s 26.85nm 5.0mb
DIX 42.66 309 iPd 10 09.90 -0.3
EMS 42.99 309 ePd 10 12.60 -0.2
LPG 43.04 308 iPc 10 12.80 -0.5
0.6s 5.85nm 4.5mb
LPL 43.05 308 eP 10 12.80 -0.6
0.5s 6.20nm 4.6mb
CDF 43.13 312 eP 10 12.70 -1.1
0.7s 5.50nm 4.4mb
BSF 43.35 312 eP 10 14.90 -0.7
0.7s 11.00nm 4.7mb
HFS 43.54 330 eP 10 16.40 -0.4
0.9s 17.80nm 4.8mb
HAU 43.67 312 eP 10 17.30 -0.8
0.7s 5.50nm 4.4mb
SOD 43.71 344 eP 10 19.00 0.9
ENN 44.45 316 iPd 10 25.80 1.5
0.9s 15.00nm 4.8mb
NB2 45.05 331 P 10 28.60 -0.4
0.7s 7.60nm 4.6mb
LBF 45.12 310 iPc 10 29.20 -0.6
0.9s 10.65nm 4.7mb
DOU 45.16 314 P 10 31.20 1.2
SMF 45.18 309 iPc 10 29.80 -0.4
1.0s 22.00nm 5.0mb
LOR 45.24 310 iPc 10 30.10 -0.6
0.7s 8.80nm 4.7mb
SSF 45.45 310 iPc 10 32.00 -0.4
0.9s 23.75nm 5.1mb
KEV 45.49 346 eP 10 32.00 -0.3
AVF 45.53 310 iPc 10 32.40 -0.5
0.8s 9.40nm 4.7mb
BGF 45.85 309 iPc 10 35.30 -0.2
0.6s 9.90nm 4.9mb
MAF 46.02 309 iPc 10 36.90 0.0
0.8s 6.05nm 4.6mb
TCF 46.27 309 iPc 10 38.70 -0.2
0.6s 6.30nm 4.7mb
CAF 46.29 307 iPc 10 39.20 0.2
0.7s 8.25nm 4.8mb
RJF 46.70 307 iPc 10 42.50 0.3
0.8s 10.75nm 4.8mb
LPO 46.90 307 eP 10 44.00 0.1
LFF 47.23 307 eP 10 46.60 0.2
0.7s 11.00nm 4.9mb
LDF 48.03 312 iPc 10 52.00 -0.6
0.7s 12.15nm 5.0mb
FLN 48.28 312 iPc 10 54.10 -0.4
0.7s 11.00nm 5.0mb

11d 16h

Z 20s 0.10um 3.8msz
 GRR 48.50 311 eP 10 55.90 -0.4
 LPF 48.60 311 eP 10 56.30 -0.7
 0.7s 6.60nm 4.8mb
 IFR 52.73 293 iPd 11 30.50 1.6
 YAK 58.17 32 eP 11 59.80 -7.6X
 MBC 76.37 359 ePd 14 02.30 0.7
 0.6s 4.00nm 4.6mb
 FRB 79.27 338 eP 14 19.00 1.2
 INK 84.09 4 eP 14 43.00 0.2
 WRA 88.87 113 P 15 07.00 -0.1
 0.8s 2.60nm 4.6mb
 WB2 88.88 113 iPd 15 07.30 0.2
 0.9s 2.70nm 4.6mb
 e 19 28.90
 YKA 89.93 356 eP 15 11.80 0.4
 0.7s 2.30nm 4.6mb
 S.D. = 0.8 on 71 of 73 obs.

• APR 11, 1991 17h 16m 45.83±0.87s
 19.927 S ±14.0km 175.883 W ±16.5km
 DEPTH = 200.0km (geophysicist)
 4.8mb (4 obs.)

TONGA ISLANDS (173)

DZM 16.64 260 iPd 20 32.50 3.1
 PUZ 18.79 194 eP 20 53.50 1.1
 NOZ 19.36 194 P 20 59.40 1.2
 MNG 21.91 198 eP 21 20.80 -2.7X
 THZ 23.76 201 eP 21 40.40 -1.0
 LTZ 24.88 201 eP 21 49.90 -1.9
 CMS 36.20 244 ePc 23 31.70 0.6
 PMG 37.17 281 iPd 23 40.00 0.6
 1.0s 80.00nm 5.3mb
 WB2 46.64 261 iPd 24 54.80 -1.4
 0.5s 22.90nm 4.9mb
 i 25 45.80
 WARB 52.90 252 eP 25 42.00 -1.6
 MBL 59.83 257 iPd 26 31.30 -1.4
 0.4s 6.00nm 4.7mb
 MAT 70.95 322 eP 27 42.00 -1.3
 ALO 85.50 50 eP 29 03.20 0.5
 1.0s 3.75nm 4.1mb
 ANMO 85.50 50 P 29 04.00 1.3
 FBA 87.27 12 P 29 10.30 0.0
 CLL 147.91 349 ePKP 36 09.00 3.9X
 i 36 11.20
 GRF 149.76 351 e(PKP) 36 15.40 7.3X
 FLN 150.99 6 ePKP 36 15.90 5.9X
 LDF 151.20 6 ePKP 36 16.30 6.0X
 GRR 151.32 7 ePKP 36 16.80 6.3X
 0.5s 2.90nm
 CDF 151.47 356 ePKP 36 17.50 6.7X
 LPF 151.65 7 ePKP 36 17.50 6.6X
 0.5s 7.30nm
 HAU 151.93 357 ePKP 36 18.30 6.9X
 BSF 152.08 356 ePKP 36 18.40 6.6X
 TCF 153.66 3 ePKP 36 22.00 8.1X
 0.5s 1.45nm
 MAF 153.74 2 ePKP 36 22.80 8.8X
 S.D. = 1.6 on 14 of 26 obs.

? APR 11, 1991 17h 42m 34.06±3.49s
 31.391 S ±10.1km 68.020 W ±24.9km
 DEPTH = 10.0km (geophysicist)

SAN JUAN PROVINCE, ARGENTINA (137)

CFA 0.29 221 ePc 42 39.80 -0.3
 eS 42 46.00
 RTLL 0.39 279 iPd 42 41.50 -0.6
 (S) 42 49.70
 ZON 0.58 254 eP 42 45.50 -0.4
 eS 42 57.50
 RTCB 0.67 262 ePc 42 48.10 0.6
 eS 42 59.00
 RTBS 1.25 257 iPd 42 57.90 0.6
 RTRS 1.74 314 ePd 43 04.40 0.0
 S 43 28.90
 S.D. = 0.6 on 6 of 6 obs.

APR 11, 1991 17h 51m 18.67±1.12s
 11.036 S ±4.7km 166.787 E ±4.3km
 DEPTH = 46.5 ± 9.6 km
 5.6mb (41 obs.) 5.3msz (21 obs.)
 SANTA CRUZ ISLANDS (184)
 Ms 5.9 (BRK). Mo=1.0×10¹⁸ Nm
 (PPT).

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
 L.P.B.: 17S, 31C
 Centroid Location:
 Origin Time 17:51:23.8 0.8
 Lat 10.30S 0.08 Lon 166.79E 0.06
 Dep 15.0 FIX Half-duration 2.3
 Moment Tensor: Scale 10¹⁷ Nm
 Mrr=-2.42 0.07 Mtt= 0.07 0.12
 Mff= 2.36 0.12 Mrt= 0.37 0.20
 Mrf= 0.10 0.31 Mtf=-1.30 0.07
 Principal Axes:
 T Val= 2.95 Plg= 1 Azm= 66
 N -0.45 11 335
 P -2.50 79 159
 Best Double Couple: Mo=2.7×10¹⁷
 NP1: Strike=166 Dip=45 Slip=-75
 NP2: 325 47 -105

PVC 6.83 168 iPd 53 09.50 10.7X
 HNR 6.92 283 eP 53 01.00 0.9
 SVO 7.12 285 eP 53 04.00 1.1
 VSG 7.19 284 eP 53 04.00 0.1
 DZM 10.98 182 iPd 53 55.50 -0.7
 VUN 13.25 123 eP 54 27.90 1.4
 PMG 19.39 273 eP 55 40.00 -3.8X
 BRS 20.94 217 iPd 56 02.00 2.0
 i 56 10.00
 e 56 49.00
 iS 59 46.00
 CTA 21.71 243 iPd 56 09.60 1.8
 1.2s 90.63nm 5.1mb
 Z 19s 20.24um 5.5msz
 iS 00 12.00
 RMO 22.92 225 iPd 56 20.00 0.2
 COO 23.86 213 eP 56 32.00 3.1X
 QIS 27.78 247 eP 57 04.00 -1.4
 CMS 28.10 220 iPd 57 07.20 -1.1
 i 57 12.10
 CNB 28.90 210 eP 57 16.00 0.6
 SNZO 30.95 168 eP 57 32.00 -1.5
 eS 02 48.00
 STK 31.16 224 eP 57 54.90 19.4X
 1.7s 14.50nm
 LTZ 31.99 172 P 57 40.20 -2.5
 WB2 32.43 250 iPd 57 45.20 -1.6
 0.9s 25.80nm 5.1mb
 TOD 32.62 212 eP 57 45.00 -3.2X
 e 57 51.00
 GUA 32.67 318 eP 57 48.50 -0.3
 BFD 33.96 216 eP 58 00.00 0.2
 ADE 34.92 222 e(P) 58 07.40 -0.8
 1.1s 194.94nm 5.9mb
 KNA 37.25 259 eP 58 28.50 0.6
 WARB 40.73 243 eP 58 57.00 0.1
 PAE 42.71 104 eP 59 19.00 5.9X
 1.3s 110.00nm 5.4mb
 TVO 43.02 104 eP 59 22.00 6.2X
 1.3s 95.00nm 5.4mb
 TBI 43.39 112 iPd 59 19.10 0.5
 1.2s 295.00nm 5.9mb
 PMO 44.27 100 iPd 59 25.60 -0.2
 1.3s 185.00nm 5.7mb
 VAH 44.53 101 iPd 59 27.60 -0.3
 1.3s 125.00nm 5.5mb
 TPT 44.54 100 iPd 59 27.70 -0.3
 1.3s 130.00nm 5.6mb
 RUV 44.76 100 iPd 59 29.40 -0.4
 1.3s 160.00nm 5.7mb
 DAV 44.79 292 eP 59 28.50 -1.6
 MBL 46.07 251 eP 59 40.80 0.7
 COOL 46.59 238 eP 59 44.00 -0.1
 NWA0 50.32 236 eP 00 13.00 0.0
 iS 07 37.00
 e 15 20.00
 MRWA 50.59 241 eP 00 15.00 -0.1
 BAG 53.22 300 eP 00 34.20 -1.1
 eS 08 08.00
 KAGJ 54.30 322 eP 00 44.60 1.9
 MAT 54.44 332 eP 00 42.00 -1.7
 1.0s 32.00nm 5.3mb
 Z 20s 1.06um 4.9msz
 (S) 08 39.00
 MTMJ 54.66 331 eP 00 44.20 -1.2
 TSRJ 54.71 329 eP 00 44.00 -1.6
 YAMJ 54.98 334 P 00 47.40 -0.2
 OFUJ 55.08 336 eP 00 45.60 -2.7

KUMJ 55.29 323 eP 00 48.40 -1.5
 SHNJ 56.26 324 eP 00 55.90 -1.0
 HOOJ 57.36 339 eP 01 03.70 -0.8
 KUSJ 57.53 341 eP 01 03.70 -2.0
 DRV 58.43 192 eP 01 10.30 -1.4
 QZH 59.05 308 P 01 17.00 0.4
 E 24s 0.94um
 ASAJ 59.12 340 eP 01 15.30 -1.5
 SSE 60.56 315 Pd 01 26.50 -0.4
 1.5s 67.00nm 5.5mb
 Z 20s 1.40um 5.1msz
 E 16s 1.20um
 PP 01 33.50
 SP 01 38.00
 eScS 11 12.00
 NJ2 62.73 315 Pd 01 41.00 -0.5
 1.0s 100.00nm 5.9mb
 Z 20s 0.70um 4.8msz
 N 16s 1.20um
 E 16s 0.80um
 PP 01 48.00
 MDJ 64.82 332 Pd 01 54.80 -0.2
 2.0s 600.00nm 6.3mb
 SP 02 08.00
 DL2 65.09 322 P 01 57.80 1.0
 1.4s 300.00nm 6.1mb
 Z 16s 0.90um 5.1mszX
 N 10s 0.60um
 WHN 65.15 311 eP 01 57.50 0.2
 Z 20s 0.90um 5.0msz
 E 18s 1.30um
 PP 02 04.50
 SNY 65.89 326 Pd 02 01.10 -0.7
 1.4s 100.00nm 5.7mb
 Z 18s 1.70um 5.3msz
 N 15s 0.90um
 E 18s 1.20um
 eS 10 50.00
 CN2 66.26 329 eP 02 03.00 -1.2
 1.0s 100.00nm 5.8mb
 Z 20s 2.80um 5.5msz
 N 14s 0.50um
 E 14s 0.30um
 ePP 02 10.00
 eS 10 53.00
 TIA 66.29 318 eP 02 02.60 -2.0
 Z 18s 1.50um 5.2msz
 N 16s 1.00um
 E 16s 0.90um
 SBA 66.81 180 iPd 02 07.00 -0.2
 IPM 67.25 280 ePd 02 11.10 0.0
 1.2s 54.90nm 5.5mb
 SNG 68.29 282 eP 02 16.20 -1.3
 PSI 68.86 277 e(P) 02 22.30 1.2
 BJI 69.12 321 eP 02 22.50 0.3
 2.0s 280.00nm 5.9mb
 Z 20s 1.55um 5.2msz
 N 16s 0.60um
 ePP 02 35.00
 eS 11 28.00
 eSKS 12 14.00
 GYA 69.26 304 iPd 02 24.00 0.5
 Z 30s 1.10um 4.9mszX
 N 20s 1.40um
 E 20s 3.00um
 PP 02 31.00
 TIY 70.25 317 Pd 02 29.80 0.5
 Z 21s 1.50um 5.2msz
 N 17s 1.40um
 S 11 43.00
 XAN 70.87 312 P 02 32.30 -0.8
 1.1s 100.00nm 5.7mb
 S 11 50.00
 NST 71.11 291 eP 02 39.00 4.3X
 KMI 71.99 301 P 02 41.50 1.3
 2.0s 150.00nm 5.6mb
 Z 22s 2.20um 5.4msz
 KHT 72.27 289 eP 02 42.50 0.8
 HHC 72.49 319 eP 02 43.70 1.0
 1.3s 100.00nm 5.6mb
 Z 22s 1.20um 5.1msz
 N 18s 1.20um
 P 02 57.00
 SKS 12 41.00
 BTO 73.36 318 iPd 02 49.00 1.2
 N 17s 1.00um
 E 15s 0.40um

CD2	73.41	307	P	SS	12 30.00		0.1	INK	89.56	19	eP	04 12.00	-0.1		e	13 51.00					
	1.3s	100.00nm			02 48.30			WMO	89.81	315	iPd	04 14.00	0.1		e(PKP)	10 31.50	-8.6X				
LZH	75.51	312	iPc		03 03.50	5.6mb	3.1X		2.0s	100.00nm					e	10 40.20					
	2.2s	270.00nm				5.8mb		Z	20s	0.50um			5.8mb		e	10 43.50	2.7				
	Z 20s	1.55um				5.3msz				PP	04 26.30				e	13 48.00					
	N 15s	0.62um						LRM	91.48	44	eP	04 20.60	-1.1		ePKP	10 32.00	-9.2X				
	E 16s	0.50um						HYB	91.59	287	iPd	04 23.00	0.5		ePPP	16 40.00					
		PP	03 10.50					GBA	91.93	283	Pd	04 24.60	0.6		eSKSP	23 28.00					
		SP	03 15.50						0.8s	10.10nm			5.3mb		eSPP	25 54.00					
SVW	77.79	18	ePd		03 12.80	0.4		SES	93.47	39	eP	04 30.00	-0.5		eLR	55 40.00					
	1.4s	107.10nm				5.7mb		ANMO	93.60	55	P	04 32.00	0.3		e(PKP)	10 30.00	-15.9X				
YAK	78.36	343	iP		03 15.30	-0.1		YKA	94.50	27	eP	04 31.00	-3.9X		ePKP	10 46.20	-1.0				
		iPcP	03 22.00						1.1s	4.10nm			4.8mb		1.1s	13.45nm					
		iPP	06 17.00					MBC	96.85	13	eP	04 45.00	-0.5		ePKP	10 46.20	-1.1				
		ePPP	07 59.00						1.5s	26.00nm			5.5mb		1.2s	17.85nm					
		eS	13 14.00					FFC	99.62	36	eP	04 54.00	-4.4X		ePKP	10 45.50	-4.3X				
SPA	79.04	180	iPd		03 18.20	-1.2			1.2s	18.00nm			5.5mb		1.0s	38.00nm					
	1.0s	42.50nm				5.3mb		KEV	116.06	346	ePKP	10 05.00	7.3X		ePKP	10 46.33	-3.8X				
TTA	79.13	16	ePd		03 20.20	0.4		CNCB	119.20	116	PKP	10 12.00	6.1X		1.3s	104.70nm					
	1.3s	61.50nm				5.4mb		LPB	119.20	116	ePKP	10 17.00	11.2X		Z 19s	0.75um	5.5msz				
GTA	79.79	314	eP		03 24.20	0.3			Z 20s	1.42um			5.6msz		LMR	143.55	336	ePKP	10 46.30	-3.9X	
	1.2s	50.00nm				5.3mb		ZOBO	119.28	116	PKP	10 07.00	0.9		1.3s	90.25nm					
	Z 20s	0.90um				5.1msz				LR	48 06.00				RJF	143.59	342	ePKP	10 46.90	-3.3X	
	E 12s	0.40um								SKS	21 24.00				1.6s	124.40nm					
		PP	03 32.00					OBN	121.32	329	ePKP	10 07.00	-1.1		1.2s	44.65nm					
		SP	03 37.40						1.1s	*****nm					LFF	144.15	343	ePKP	10 48.80	-2.4	
		PP	06 30.00						Z 22s	1.10um			5.5msz		1.3s	122.75nm					
PMR	80.20	20	ePc		03 25.70	0.3			N 20s	0.90um					LPO	144.26	342	ePKP	10 49.20	-2.2	
TOA	81.56	20	ePd		03 33.50	0.8			E 20s	1.00um						1.4s	152.50nm				
	1.3s	187.40nm				5.9mb				e	10 08.70				PDCR	145.22	132	ePKP	10 51.10	-2.7	
FHC	81.92	46																			

11d 17h

HRT 1.92 20 ePn 54 12.00 -0.1
 CTT 2.15 353 ePn 54 15.00 -0.3
 S.D. = 0.3 on 9 of 9 obs.

? APR 11, 1991 18h 56m 55.04 ± 0.53s
 15.130 S ± 12.7km 166.843 E ± 16.0km
 DEPTH = 33.0km (normal)

VANUATU ISLANDS (186)

DZM 6.91 183 iPc 58 36.70 -0.1
 iS 59 55.00
 VSG 9.09 309 eP 59 07.00 -0.1
 eS 00 43.00
 WB2 31.32 256 eP 03 13.70 -1.1
 0.8s 0.90nm 3.7mb
 WRA 31.33 256 P 03 16.00 1.2
 1.2s 1.30nm 3.6mb
 ASPA 32.15 250 eP 03 29.30 7.3X
 FLN 144.88 345 ePKP 16 29.10 -1.2
 LDF 144.95 345 ePKP 16 29.50 -0.9
 LOR 144.97 340 ePKP 16 29.40 -1.2
 0.7s 3.30nm
 LBF 145.18 339 ePKP 16 29.90 -1.1
 SSF 145.27 340 ePKP 16 30.50 -0.6
 0.9s 9.85nm
 GRR 145.32 346 ePKP 16 30.20 -0.9
 0.5s 4.35nm
 LPG 145.39 335 ePKP 16 31.40 -0.3
 0.7s 3.85nm
 SMF 145.52 339 ePKP 16 30.90 -0.6
 0.9s 7.35nm
 AVF 145.56 340 ePKP 16 31.20 -0.3
 0.8s 3.35nm
 LPF 145.70 346 ePKP 16 31.50 -0.2
 0.8s 8.05nm
 BGF 145.93 340 ePKP 16 32.50 0.3
 0.6s 4.05nm
 TCF 146.37 341 ePKP 16 37.00 4.0X
 LSF 146.62 341 ePKP 16 34.10 0.8
 MFF 146.79 344 ePKP 16 35.00 1.4
 0.7s 4.40nm
 RJF 147.47 341 ePKP 16 36.80 2.1
 CAF 147.63 340 ePKP 16 37.90 2.9
 0.9s 4.90nm
 LPO 148.13 340 ePKP 16 38.90 3.1X
 S.D. = 1.2 on 19 of 22 obs.

? APR 11, 1991 19h 31m 13.50 ± 4.03s
 51.306 N ± 32.4km 15.882 E ± 22.4km
 DEPTH = 10.0km (geophysicist)
 POLAND (548)

KSP 0.53 151 iPd 31 24.00 -0.2
 0.4s 38.00nm
 iS 31 32.00
 e 31 37.00
 PRU 1.57 213 Pn 31 42.60 1.1
 Pg 31 44.70
 e 31 48.10
 Sn 32 01.90
 Sg 32 06.60
 CLL 1.81 271 iPn 31 45.60 0.7
 iPg 31 48.00
 eSg 32 15.00
 KHC 2.63 215 ePn 31 57.00 0.2
 Pg 32 04.00
 eSn 32 32.50
 eSg 32 40.00
 MOX 2.78 258 ePg 32 07.50 8.7X
 iSg 32 48.00
 GRF 3.39 243 e(Pn) 32 05.60 -1.9
 ePg 32 20.00
 eSg 33 06.00
 KBA 4.55 202 e(Pn) 32 32.00 7.9X
 e 33 40.50
 S.D. = 1.6 on 5 of 7 obs.

% APR 11, 1991 20h 15m 54.18 ± 0.76s
 40.662 N ± 5.0km 27.514 E ± 6.4km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 2.7 (ISK).

KGT 0.26 218 iPg 15 59.80 0.0
 EDC 0.41 140 iPg 16 02.50 -0.1
 BNT 0.43 134 iPg 16 03.00 0.0
 KCT 0.76 122 ePg 16 09.00 -0.1

CTT 0.85 55 iPg 16 10.50 0.0
 iSg 16 23.50
 DMK 1.17 9 ePn 16 16.00 -0.1
 YLV 1.42 93 ePn 16 20.00 -0.1
 IZI 1.53 102 ePn 16 22.00 0.4
 S.D. = 0.2 on 8 of 8 obs.

& APR 11, 1991 20h 28m 06.98s
 63.328 N 152.629 W
 DEPTH = 4.1km
 CENTRAL ALASKA (1)
 <AEIC>. ML 2.7 (AEIC).

TRF 1.06 82 eP 28 25.89 -1.8
 eS 28 40.45
 HUR 1.40 103 eP 28 32.61 -0.7
 eS 28 51.62
 CUT 1.42 130 iP 28 33.66 0.0
 eS 28 52.47
 SKT 1.44 159 eP 28 32.93 -1.0
 eS 28 52.81
 TTA 1.59 257 iPd 28 36.20 0.2
 BWN 1.64 58 eP 28 36.84 0.1
 eS 28 59.69
 RND 1.70 86 eP 28 36.78 -0.9
 eS 28 58.55
 MCK 1.70 75 eP 28 37.19 -0.4
 eS 28 59.11
 NCG 1.94 173 eP 28 40.42 -0.8
 eS 29 07.60
 NEA 2.01 50 eP 28 42.46 0.5
 eS 29 07.82
 SUA 2.07 154 eP 28 43.83 0.8
 BGL 2.08 177 eP 28 42.86 -0.2
 CRP 2.08 174 eP 28 45.54 2.3
 eS 29 12.06
 PWA 2.11 142 eP 28 45.05 1.5
 CKL 2.14 176 eP 28 43.83 -0.3
 SPU 2.17 173 eP 28 44.01 -0.4
 eS 29 15.62
 WRH 2.31 58 eP 28 46.49 0.1
 eS 29 17.25
 GHO 2.32 131 eP 28 46.57 -0.1
 PLRM 2.38 135 eP 28 46.20 -1.2
 PMR 2.38 135 eP 28 47.30 -0.1
 RDS 2.48 51 eP 28 49.29 0.5
 CCB 2.50 56 eP 28 45.92 -3.2
 MDM 2.53 48 eP 28 46.45 -3.1
 PMS 2.54 144 eP 28 50.29 0.7
 SVW 2.63 214 iPd 28 48.80 -2.2
 FBA 2.64 51 eP 28 49.10 -2.0
 KNK 2.73 133 eP 28 52.00 -0.5
 HDA 2.74 64 eP 28 54.90 2.4
 DFR 2.75 181 eP 28 51.28 -1.4
 eS 29 31.76
 RDT 2.77 178 eP 28 51.76 -1.2
 NCT 2.78 183 eP 28 51.67 -1.5
 IMA 2.79 351 ePd 28 50.90 -2.4
 RDN 2.83 181 eP 28 52.27 -1.6
 GLM 2.84 52 eP 28 54.03 0.1
 REF 2.85 181 eP 28 53.38 -0.9
 RDW 2.86 182 eP 28 53.30 -1.1
 SCM 2.88 119 eP 28 54.27 -0.2
 RS2 2.88 181 eP 28 55.14 0.5
 RSO 2.88 181 eP 28 54.81 0.2
 RED 2.92 181 eP 28 53.83 -1.3
 TOA 3.22 110 eP 28 59.48 0.2
 KLU 3.62 118 eP 29 03.35 -1.7
 PDB 3.63 193 eP 29 02.62 -2.5
 43 obs. associated

APR 11, 1991 20h 32m 00.27 ± 0.42s
 41.091 N ± 4.5km 20.008 E ± 4.1km
 DEPTH = 10.0km (geophysicist)
 ALBANIA (391)
 MD 3.2 (ATH). 2.9 (THE).

OHR 0.60 88 iPg 32 10.50 -1.9
 iSg 32 18.90
 Lg 32 20.30
 ULC 1.04 327 iPg 32 18.35 -1.6
 iSg 32 35.12
 FNA 1.08 106 ePd 32 18.96 -1.7
 eS 32 35.92
 KEK 1.39 187 ePb 32 26.50 0.9
 SKO 1.39 50 iPn 32 25.10 -0.6
 iS 32 27.90

iSn 32 43.70
 Lg 32 48.00
 TTG 1.45 338 iPg 32 26.09 -0.4
 iSg 32 48.77
 BDV 1.48 324 iPg 32 27.32 0.3
 iSg 32 49.20
 PVY 1.50 359 iPg 32 26.42 -1.0
 iSg 32 50.62
 KZN 1.55 120 ePb 32 27.50 -0.6
 IGT 1.58 171 ePc 32 29.60 1.3
 eS 32 53.84
 HCY 1.76 321 iPnc 32 30.37 -0.7
 iSn 32 55.27
 IVA 1.78 357 iPnc 32 31.50 0.1
 iSn 32 57.52
 GRG 1.82 93 ePd 32 31.85 0.0
 iS 32 57.72
 NKY 1.88 337 iPnd 32 33.67 0.9
 iSn 32 59.30
 VAY 1.95 82 ePn 32 33.00 -0.7
 BRY 2.11 329 iPnc 32 36.62 0.4
 iSn 33 06.30
 LIT 2.13 117 iPc 32 37.21 0.8
 BRT 2.13 265 P 32 43.00 6.6X
 eSn 33 09.00
 KNT 2.18 87 ePd 32 37.92 0.8
 eS 33 06.20
 PLE 2.28 349 iPnc 32 40.29 1.6
 iSn 33 09.01
 KKB 2.44 70 eP 32 42.00 1.2
 eS 33 10.00
 SOH 2.55 95 ePc 32 43.16 0.8
 SRS 2.71 88 ePd 32 44.64 0.0
 eS 33 18.64
 VTS 2.82 57 eP 32 47.00 0.6
 MMB 2.84 79 eP 32 48.00 1.4
 ORI 2.90 250 P 32 55.00 7.7X
 VLS 2.94 171 ePb 32 46.40 -1.6
 SGO 3.61 263 P 32 57.00 -0.3
 PLD 3.66 72 eP 32 58.00 -0.2
 eSg 33 41.00
 S.D. = 1.0 on 27 of 29 obs.

APR 11, 1991 20h 32m 20.78 ± 0.42s
 27.029 N ± 6.9km 100.856 E ± 4.7km
 DEPTH = 43.8km (2 depth phases)
 4.9mb (12 obs.)

YUNNAN PROVINCE, CHINA (318)

KMI 2.54 138 Pnd 33 04.00 3.3X
 Pg 33 07.00
 Sg 33 38.00
 CD2 4.63 33 Pn 33 31.00 0.9
 Pg 33 42.00
 Sg 34 36.00
 GYA 5.22 95 Pn 33 38.60 0.0
 Pg 33 52.00
 Sn 34 36.00
 Sg 34 59.00
 LSA 8.95 290 eP 34 31.30 0.4
 eS 36 22.00
 LZH 9.38 15 eP 34 38.00 1.5
 2.5s 53.00nm 5.2mb
 Z 10s 6.95um 4.2Mszx
 E 11s 12.10um
 SS 36 33.00
 XAN 9.85 43 P 34 37.50 -5.4X
 N 10s 7.80um
 E 11s 4.50um
 S 36 25.00
 OIZ 11.48 132 P 35 03.80 -1.2
 N 10s 4.00um
 E 10s 3.70um
 S 37 12.50
 GZH 11.98 106 eP 35 08.00 -3.7X
 S 37 19.20
 WHN 12.34 70 eP 35 13.00 -3.5X
 1.0s 100.00nm 5.8mb
 Z 16s 2.40um 5.5Msz
 E 10s 4.60um
 SP 35 27.50
 S 37 24.00
 KHT 12.36 190 eP 35 20.00 3.1X
 GTA 12.38 356 eP 35 17.00 -0.2
 Z 12s 3.00um
 E 10s 5.90um
 SP 35 29.00

GUN	13.33	277	P	35	28.90	-1.1	44.358 N ± 3.4km	7.320 E ± 3.9km	VTS	2.81	57	iPc	56	12.00	0.1
PKI	13.75	276	P	35	33.60	-1.9	DEPTH = 12.7 ± 3.7 km					iSg	57	01.00	
KKN	13.86	277	P	35	36.14	-0.7	NORTHERN ITALY	(545)	MMB	2.84	79	eP	56	13.00	0.8
DMN	14.02	276	P	35	37.40	-1.5	MD 2.2 (STR). ML 2.1 (GEN). 2.1					eS	56	58.00	
GKN	14.43	278	P	35	43.48	-0.7	(LDG).		ORI	2.91	250	P	56	14.00	0.9
OZH	16.08	93	eP	36	03.50	-1.9			VLS	2.96	171	ePn	56	12.80	-1.1
N	10s						STV	0.11	178	P					
									S						
							ENR	0.15	151	P					
									S						
HHC	16.38	30	eP	36	07.90	-1.3									
							PZZ	0.21	313	P					
									S						
NJ2	16.44	68	eP	36	08.00	-1.9									
							TOUF	0.35	188	Pg					
							AUTN	0.37	168	Pg					
							ROB	0.40	99	P					
									S						
TIA	16.59	53	eP	36	08.10	-3.7X									
							SAOF	0.41	155	Pg					
									Sg						
							AURF	0.47	179	Pg					
									Sg						
BJI	18.17	41	eP	36	29.00	-2.4									
							MVIF	0.48	195	Pg					
							BHB	0.48	355	P					
									S						
							SBF	0.50	170	Pg					
									Sg						
SSE	18.23	72	eP	36	32.00	-0.1									
							IMI	0.61	137	P					
									S						
SNG	19.75	181	eP	36	52.00	2.1									
							FIN	0.66	103	P					
									S						
WMO	19.85	331	P	36	51.60	0.7									
							FRF	0.93	212	Pg					
									Sg						
							LRG	1.14	218	Pg					
									Sg						
NDI	20.96	280	eP	37	03.00	0.6									
DL2	21.02	50	eP	37	04.00	1.1									
							LMR	1.18	210	Pg					
									Sg						
							S.D. = 0.5	on	16	of	16	obs.			
							APR 11, 1991 20h 55m 25.93± 0.27s								
							41.110 N ± 3.4km 20.009 E ± 2.5km								
							DEPTH = 10.0km (geophysicist)								
							ALBANIA (391)								
							MD 3.4 (ATH). 3.2 (THE).								
							OHR	0.60	90	iPg	55	36.40	-1.6		
									iSg	55	44.80				
									Lg	55	47.00				
IRK	25.35	5	eP	37	48.00	2.9X	ULC	1.03	326	iPg	55	45.21	-0.1		
						47km			iSg	56	04.14				
							FNA	1.09	107	ePc	55	45.10	-1.3		
									eS	56	01.98				
							SKO	1.38	51	iPn	55	51.30	0.1		
									i	55	53.90				
GBA	25.64	243	Pd	37	51.90	3.8X			iSn	56	10.60				
									i	56	12.20				
CN2	25.97	43	P	37	51.30	0.4			Lg	56	15.00				
							KEK	1.40	187	ePg	55	52.40	0.8		
							TTG	1.43	337	iPg	55	52.31	0.4		
									iSg	56	15.43				
							BDV	1.47	323	iPnc	55	52.58	0.1		
									iSn	56	16.03				
QUE	29.87	284	eP	38	30.50	3.8X	PVY	1.48	359	iPnd	55	52.54	-0.2		
MAIO	36.17	295	eP	39	24.00	2.9X			iSn	56	16.69				
QBN	53.66	320	P	41	44.00	4.0X	KZN	1.56	120	ePg	55	53.50	-0.3		
							IGT	1.59	171	ePc	55	55.98	1.7		
									eS	56	18.74				
							HCY	1.75	320	iPnc	55	56.79	0.3		
									iSn	56	23.38				
WRA	56.86	142	P	42	04.40	0.7	IVA	1.76	357	iPnc	55	57.88	1.1		
									iSn	56	24.04				
WB2	56.87	142	iPc	42	04.40	0.7	GRG	1.82	94	ePd	55	57.74	0.2		
									eS	56	23.94				
SOD	59.29	334	eP	42	23.00	2.9X	NKY	1.86	336	iPnc	55	59.09	0.9		
KEV	59.33	337	eP	42	10.00	-10.3X			iSn	56	26.29				
OIS	60.39	138	eP	42	29.00	0.9	VAY	1.94	83	ePn	55	58.30	-1.0		
VR1	60.41	309	ePd	42	29.50	1.5	BRY	2.10	329	iPnd	56	02.09	0.4		
MLR	61.01	309	eP	42	39.00	6.7X			iSn	56	31.93				
							BRT	2.14	265	P	56	02.60	0.5		
HFS	65.58	327	ePKP	43	03.70	1.8	LIT	2.14	117	ePc	56	02.06	-0.1		
							KNT	2.18	88	ePc	56	02.14	-0.7		
KSP	66.23	316	eP	43	09.50	3.3X	PLE	2.27	349	iPnc	56	04.66	0.6		
NB2	66.57	328	P	43	12.80	4.4X			iSn	56	35.64				
							THE	2.29	101	ePc	56	05.30	1.0		
									iS	56	35.10				
MBC	73.99	9	eP	43	57.00	4.0X	BAI	2.37	271	P	56	04.00	-1.5		
FBA	74.32	24 (P)		43	55.20	0.1	KKB	2.43	71	iP	56	06.00	-0.3		
INK	76.91	18	eP	44	11.00	1.3			iSg	56	47.00				
YKA	86.39	16	eP	44	59.70	0.3	SRS	2.71	89	ePd	56	09.82	-0.5		
							S.D. = 1.3	on	30	of	50	obs.			
							APR 11, 1991 20h 38m 56.70± 0.46s								

11d 23h

JACH 4.85 217 iP 32 05.50 0.6
 PEL 5.27 215 iPd 32 09.20 -1.2
 ROCH 5.30 218 iPd 32 09.60 -1.4
 PCH 5.58 211 iP 32 14.50 -0.1
 TACH 5.80 213 iP 32 16.00 -1.5
 LCCH 5.99 218 iP 32 18.00 -1.9
 CNCB 12.01 356 P 33 40.00 -0.4
 LPB 12.29 356 P 33 48.00 4.1X
 ZOBO 12.55 356 P 33 47.00 -0.5

SIV 13.96 25 P 34 03.00 -2.0
 VAO 19.03 77 eP 35 04.80 -0.5
 BMA 21.55 79 (P) 35 31.00 0.2
 WB2 127.25 206 ePKP 49 42.70 1.6
 0.4s 1.70nm
 WRA 127.25 206 PKP 49 42.00 0.9
 1.4s 0.70nm
 S.D. = 1.3 on 20 of 21 obs.

APR 11, 1991 23h 47m 58.38 ± 0.62s
 41.117 N ± 6.6km 20.102 E ± 5.4km
 DEPTH = 10.0km (geophysicist)
 ALBANIA (391)
 ML 2.7 (TTG).

OHR 0.53 90 iPg 48 07.80 -1.3
 FNA 1.02 109 ePc 48 16.84 -0.9
 SKO 1.32 49 ePn 48 22.20 -0.5
 TTG 1.45 335 iPgd 48 24.75 0.1
 PVY 1.48 356 iPgc 48 25.19 0.0
 BDV 1.51 321 iPgd 48 24.90 -0.5
 IGT 1.59 174 ePc 48 26.60 -0.1
 GRG 1.75 95 ePc 48 30.44 1.5
 IVA 1.76 355 iPnc 48 29.20 0.0
 HCY 1.79 318 iPnc 48 29.52 0.0
 VAY 1.87 83 ePn 48 31.50 0.8
 NKY 1.88 334 iPnc 48 31.60 0.6
 KNT 2.11 88 ePd 48 34.96 0.7
 BRY 2.13 327 ePn 48 34.24 -0.3
 49 02.19
 S.D. = 0.8 on 14 of 14 obs.

APR 12, 1991 00h 27m 28.11 ± 0.57s
 42.959 N ± 5.2km 18.702 E ± 5.0km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)
 ML 2.8 (TTG).

BRY 0.13 243 iPgd 27 30.85 -0.5
 NKY 0.26 124 iPgc 27 33.86 0.2
 HCY 0.53 196 iPgd 27 38.96 0.1
 PLE 0.63 54 iPgd 27 39.20 -1.6
 TTG 0.67 142 iPgc 27 40.60 -0.8
 BDV 0.68 172 iPgd 27 41.85 0.2
 IVA 0.88 95 iPgd 27 44.85 -0.3
 PVY 1.00 111 iPgc 27 47.66 0.4
 ULC 1.07 158 iPgc 27 48.88 0.5
 HVAR 1.67 278 iPnd 27 57.90 0.4
 BEO 2.25 34 ePn 28 08.00 2.1
 SKO 2.25 115 ePn 28 10.00 4.0X

BRT 2.36 209 P 28 19.00 11.5X
 eSn 28 38.00
 BZS 3.38 37 eP 28 30.00 8.0X
 PTJ 3.54 327 e(Pn) 28 35.10 10.9X
 KBA 5.60 319 ePn 28 53.00 -0.6
 28 55.40
 e 29 50.00
 30 17.00
 S.D. = 1.0 on 12 of 16 obs.

APR 12, 1991 01h 53m 50.30 ± 0.52s
 0.559 S ± 6.1km 132.710 E ± 13.4km
 DEPTH = 33.0km (normal)
 5.3mb (16 obs.)
 WEST IRIAN REGION (196)

MTN 12.31 187 eP 56 43.70 -2.5
 eS 58 55.00
 KNA 15.59 194 eP 57 27.30 -2.0
 i 57 28.50
 eS 00 14.00
 WB2 19.33 175 iPc 58 14.00 -2.0
 0.6s 90.50nm 5.2mb
 iS 01 39.60
 BAG 20.68 325 eP 58 32.00 1.6
 eS 02 27.00
 OIS 20.99 162 iPc 58 32.10 -1.3
 0.6s 23.00nm 4.8mb
 eS 02 23.00

ASPA 23.00 177 iPc 58 54.50 1.1
 0.4s 87.20nm 5.6mb
 eS 03 08.10
 CTA 23.50 146 iPc 58 59.99 1.7
 1.0s 86.00nm 5.2mb
 iS 03 24.00
 MBL 24.03 211 iPd 59 05.70 2.3
 1.0s 88.00nm 5.2mb
 WARB 26.14 192 eP 59 25.20 1.8
 eS 04 23.00
 FORR 30.44 188 eP 00 02.50 0.4
 STK 32.27 166 iPc 00 37.90 19.7X
 0.8s 52.80nm

MRWA 32.66 208 iPc 00 21.80 0.2
 0.5s 9.00nm 4.9mb
 BRS 32.91 146 iPc 00 22.90 -0.9
 SNG 32.92 284 eP 00 24.00 -0.1
 BAL 33.53 205 eP 00 29.70 0.5
 0.6s 55.00nm 5.6mb
 PSI 33.93 276 ePc 00 34.50 1.6
 KLB 33.95 203 eP 00 33.40 0.5
 MUN 34.92 205 eP 00 41.50 0.3
 NWA0 35.34 203 eP 00 45.50 0.8
 WHN 35.52 332 Pd 00 47.50 1.2
 GYA 36.77 319 P 00 58.40 1.4
 KHT 37.03 296 eP 01 00.10 0.9
 BFD 37.55 167 iPd 01 04.00 0.7
 0.6s 19.00nm 5.1mb
 XAN 41.03 329 P 01 31.50 -0.7
 CD2 41.66 321 eP 01 36.60 -0.9
 TIY 42.44 336 eP 01 42.40 -1.4
 BJI 43.14 341 eP 01 49.00 -0.4
 1.2s 16.00nm 4.6mb

LZH 45.28 327 Pc 02 09.50 2.6
 1.5s 37.00nm 5.1mb
 HHC 45.48 337 P 02 08.40 0.0
 LSA 49.74 311 P 02 42.80 0.5
 GTA 49.88 327 P 02 43.40 0.6
 1.5s 20.00nm 4.9mb
 PP 02 47.80

GUN 53.06 306 P 03 06.60 -0.7
 0.8s 50.00nm 5.5mb
 PKI 53.31 306 P 03 07.78 -1.3
 KKN 53.50 306 P 03 09.30 -1.1
 1.1s 56.00nm 5.5mb
 DMN 53.57 305 P 03 09.90 -1.0
 GKN 54.11 306 P 03 13.78 -1.0
 1.0s 59.00nm 5.6mb
 HYB 56.21 291 eP 03 28.00 -2.0
 WMO 59.67 324 iPc 03 53.50 -0.4
 2.0s 100.00nm 5.6mb
 YAK 62.45 358 eP 04 11.40 -0.9
 GAR 69.21 312 eP 04 55.00 -1.2
 GAR 69.21 312 eP 04 55.50 -0.7
 QUE 69.47 303 eP 04 57.90 -0.2
 SPA 89.45 180 eP 06 45.00 -0.2
 1.0s 10.50nm 5.1mb
 ARE 150.74 126 e(PKP) 13 44.00 7.6X

CNCB 153.28 131 PKP 13 43.00 2.7X
 i 13 50.00
 LPB 153.36 131 PKP 13 48.00 7.7X
 ZOBO 153.50 130 PKP 13 42.90 2.2
 S.D. = 1.3 on 43 of 47 obs.

* APR 12, 1991 02h 04m 18.56 ± 0.83s
 41.066 N ± 8.1km 22.382 E ± 6.9km
 DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)
 ML 1.3 (SKO).

GRG 0.11 172 iPc 04 21.40 0.0
 eS 04 23.48
 VAY 0.29 29 iPg 04 24.60 -0.1
 iSg 04 29.30
 KNT 0.40 76 iPc 04 26.89 0.1
 eS 04 32.92
 SOH 0.78 108 ePc 04 33.68 0.0
 FNA 0.81 250 ePc 04 34.40 0.0
 eS 04 45.16
 S.D. = 0.1 on 5 of 5 obs.

* APR 12, 1991 02h 05m 03.91 ± 0.59s
 40.646 N ± 5.2km 29.054 E ± 4.8km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.6 (ISK).

YLV 0.26 108 iPg 05 09.30 -0.1
 ISK 0.42 0 iPg 05 12.90 0.4
 eSg 05 18.40
 IZI 0.44 134 iPg 05 12.80 -0.2
 iSg 05 18.30
 HRT 0.50 69 iPg 05 13.90 -0.1
 eSg 05 21.40
 CTT 0.69 317 iPg 05 17.30 -0.3
 BNT 0.91 252 ePn 05 21.00 -0.4
 DST 1.09 198 ePn 05 25.00 0.6
 S.D. = 0.4 on 7 of 7 obs.

? APR 12, 1991 02h 50m 42.83 ± 1.51s
 11.220 S ± 29.1km 167.008 E ± 14.8km
 DEPTH = 33.0km (normal)
 4.4mb (2 obs.)
 SANTA CRUZ ISLANDS (184)

HNR 7.17 284 eP 52 28.00 -0.1
 SVO 7.37 286 eP 52 31.00 0.1
 WB2 32.58 251 eP 57 13.20 -0.4
 1.7s 3.80nm 4.0mb
 MDJ 65.09 331 eP 01 22.00 -0.4
 CN2 66.53 328 eP 01 30.60 -1.0
 TIY 70.53 317 eP 01 57.00 0.3
 XAN 71.16 312 P 02 00.50 0.0
 CD2 73.70 307 eP 02 15.20 -0.4
 GTA 80.07 314 P 02 53.50 2.3
 1.0s 10.00nm 4.8mb
 FBA 83.10 18 P 03 06.00 -0.3
 S.D. = 1.0 on 10 of 10 obs.

* APR 12, 1991 02h 58m 30.51 ± 0.55s
 11.117 S ± 14.8km 166.921 E ± 7.6km
 DEPTH = 33.0km (normal)
 4.9mb (6 obs.) 4.7MsZ (3 obs.)
 SANTA CRUZ ISLANDS (184)

HNR 7.06 283 eP 00 14.00 -0.3
 SVO 7.26 285 eP 00 18.00 0.9
 DZM 10.90 182 iPc 01 14.00 6.5X
 ASPA 33.80 244 eP 05 11.10 -0.8
 0.8s 4.50nm 4.4mb
 Z 20s 1.40um 4.7MsZ
 NJ2 62.88 315 Pd 08 55.50 -0.3
 PP 09 02.50
 MDJ 64.96 331 Pc 09 08.50 -0.7
 CN2 66.40 328 P 09 18.00 -0.5
 TIA 66.44 318 eP 09 24.80 5.9X
 CSY 66.74 202 eP 09 16.40 -3.9X
 BJI 69.27 321 eP 09 41.50 5.0X
 TIY 70.40 317 eP 09 43.00 -0.6
 Z 20s 0.50um 4.8MsZ
 XAN 71.02 312 P 09 46.60 -0.8
 HHC 72.64 319 eP 09 57.00 0.0
 CD2 73.57 307 eP 10 02.30 -0.2
 LZH 75.66 312 eP 10 16.50 1.8
 2.0s 36.00nm 5.0mb

Z	20s	0.24um	4.5msz	VAO	33.69	124	eP	56	45.90	-1.3	LPO	85.71	44	eP	02	44.10	0.3		
		PP	10	25.00	BMA	35.93	121	eP	57	06.60	0.2		1.5s	78.35nm		5.7mb			
		SP	10	30.50	PDCR	38.02	103	eP	57	23.00	-0.9	RJF	86.07	44	eP	02	45.70	0.2	
YAK	78.47	343	iP	10	29.20	RSCP	41.90	350	P	57	54.60	-1.2		1.7s	73.50nm		5.6mb		
		e	12	51.00	TUL	45.02	338	ePc	58	20.10	-1.0	Z	19s	0.22um		4.6msz			
SPA	78.96	180	eP	10	33.00		1.2s	29.90nm		5.1mb		LSF	86.27	43	eP	02	46.50	0.0	
	1.1s	10.71nm		4.8mb			Z	21s	0.25um	4.1msz	CAF	86.37	44	eP	02	47.40	0.3		
GTA	79.94	314	P	10	40.00			LR	13	48.60			1.5s	36.55nm		5.4mb			
	1.2s	10.00nm		4.7mb	FVM	45.26	345	P	58	20.50	-2.5	TCF	86.74	43	eP	02	48.80	-0.1	
		PP	10	47.60		0.6s	19.51nm		5.2mb		MAF	86.97	43	eP	02	50.00	0.0		
		SP	10	52.40	ALQ	49.05	328	eP	58	52.70	-0.3		1.1s	13.45nm		5.1mb			
PMR	80.23	20	eP	10	39.00		0.9s	11.97nm		4.9mb		FBA	87.14	336	eP	02	51.30	0.9	
BRK	82.06	49	eP	10	56.40	ANMO	49.05	328	P	58	52.60	-0.4	BGF	87.23	43	eP	02	51.00	-0.2
WDC	82.82	46	eP	10	53.70		0.9s	16.81nm		5.1mb			1.1s	17.10nm		5.2mb			
FBA	83.03	18	eP	10	51.70	GAC	51.24	1	eP	59	10.00	0.8	AVF	87.62	43	eP	02	52.40	-0.6
	0.9s	14.58nm		5.1mb	GLD	52.20	333	P	59	16.40	-0.5		1.1s	8.55nm		4.9mb			
ORV	83.21	48	eP	10	54.80		1.0s	32.00nm		5.2mb		SSF	87.77	42	eP	02	53.00	-0.7	
CMB	83.51	49	eP	10	57.40	GOL	52.23	332	P	59	16.50	-0.7	SMF	87.92	43	eP	02	54.00	-0.5
FRI	83.68	51	eP	11	04.30	GLA	52.66	320	eP	59	21.00	0.7		1.1s	13.45nm		5.1mb		
ISA	84.20	52	eP	11	07.00	RSSD	55.28	337	P	59	39.00	-0.6	LOR	88.05	42	eP	02	54.30	-0.8
CLC	84.93	52	eP	11	05.00		1.2s	20.04nm		5.0mb		Z	20s	0.17um		4.5msz			
GSC	85.40	53	eP	11	07.00	GSC	55.36	321	eP	59	41.00	0.9	LRG	89.15	46	eP	03	00.90	0.5
GLA	86.34	55	eP	11	18.00	SBB	55.63	319	eP	59	42.00	0.0		1.1s	24.40nm		5.4mb		
PNT	87.82	39	eP	11	19.00	CLC	56.18	321	eP	59	47.00	1.0	Z	20s	0.35um		4.8msz		
WMO	89.96	315	P	11	28.00	BW06	56.60	332	P	59	47.10	-2.0	LMR	89.24	46	eP	03	00.90	0.1
LRM	91.44	44	eP	11	35.30		1.1s	7.94nm		4.7mb			1.2s	20.85nm		5.3mb			
PV09	92.15	51	e(P)	11	36.50	ISA	56.65	320	eP	59	49.00	-0.3	FRF	89.37	46	eP	03	01.50	0.0
BW06	92.76	47	e(P)	11	33.70	CMB	59.31	321	eP	00	16.20	8.3X		1.2s	23.80nm		5.4mb		
	1.1s	7.34nm		5.0mb	LRM	60.26	332	eP	00	13.20	-1.4	LPL	89.72	44	eP	03	03.80	0.4	
PDCR	145.06	132	ePKP	18	06.00	ORV	60.92	322	eP	00	18.80	-0.1	LPG	89.73	44	eP	03	03.90	0.4
		e	20	29.30	SCH	60.96	7	eP	00	18.00	-0.8		1.1s	9.75nm		5.0mb			
S.D. = 1.0	on	26	of	35	obs.	MIN	61.46	322	eP	00	14.60	-8.1X	HAU	89.83	42	eP	03	03.10	-0.5
APR	12, 1991	03h	50m	06.73 ± 0.24s	WDC	62.17	322	eP	00	25.30	-2.0	Z	19s	0.15um		4.4msz			
	5.753 S ± 4.0km	77.054 W ± 6.2km			SES	63.16	336	ePc	00	32.50	-1.2	IMA	89.83	337	eP	03	03.20	-0.1	
DEPTH = 33.0km (normal)						pP	00	40.00	24kmX			1.1s	10.50nm		5.0mb				
5.2mb (46 obs.)	4.5msz (6 obs.)				FFC	63.75	344	iPc	00	36.10	-1.3	SBF	89.98	46	eP	03	04.30	-0.1	
NORTHERN PERU	(111)					1.4s	38.00nm		5.3mb			1.2s	17.85nm		5.2mb				
Felt (IV) at Moyobamba.					NEW	64.23	331	P	00	39.70	-1.1	ENN	89.98	39	eP	03	05.00	0.9	
TUNG	4.52	342	P	51	14.70	PNT	66.15	331	ePc	00	53.00	-0.1		1.0s	12.00nm		5.1mb		
		eS	52	09.00	RUV	69.56	256	iP	01	23.30	8.4X	BSF	90.10	42	eP	03	04.30	-0.6	
VC1	5.26	345	P	51	24.90		1.0s	20.00nm		5.1mb		CDF	90.50	42	eP	03	06.40	-0.3	
QUIL	5.30	339	P	51	26.30	FRB	69.61	4	ePc	01	13.50	-0.8		1.1s	17.10nm		5.3mb		
ANGL	5.35	355	P	51	40.30	TPT	69.79	256	iP	01	24.60	8.3X	WTS	90.72	38	eP	03	09.00	1.5
OTO	5.70	345	eP	51	35.00		1.0s	25.00nm		5.2mb			0.7s	7.00nm		5.1mb			
QUR	5.74	345	eP	51	34.20	VAH	69.79	256	iP	01	24.60	8.2X	ASPA	137.96	225	ePKP	09	23.70	-7.1X
YANA	5.80	345	eP	51	34.10		1.0s	15.00nm		5.0mb			1.4s	6.20nm					
CAYA	5.87	351	P	51	33.00	PMO	70.05	256	iP	01	26.50	8.5X	WMO	139.78	17	PKP	09	34.50	1.0
COTA	6.18	348	eP	51	41.00		1.0s	15.00nm		5.0mb		WRA	139.93	230	PKP	09	34.00	-0.4	
NNA	6.20	178	iPc	51	38.50	LKO	72.81	78	P	01	34.64	0.0		1.0s	3.50nm				
	0.7s	27.40nm		5.1mb		0.5s	15.00nm		5.3mb		BJI	143.85	343	ePKP	09	38.00	-2.6		
HUA	6.47	165	iPc	51	43.90	LIC	72.87	82	Pc	01	35.16	0.2	HMC	144.21	349	ePKP	09	39.00	-2.4
		iS	52	38.40		1.1s	28.50nm		5.2mb		BTO	144.73	351	ePKP	09	41.00	-1.3		
BOG	10.73	16	eP	52	42.00	TIC	72.94	81	Pc	01	35.70	0.3	GTA	146.37	4	ePKP	09	46.00	0.9
		iS	53	08.90		0.9s	23.50nm		5.2mb		NDI	146.63	44	ePKP	09	47.00	1.3		
FUO	11.63	17	eP	52	54.50	KIC	73.17	82	P	01	37.18	0.4		1.0s	40.00nm				
ARE	11.96	153	eP	52	59.00	YKA	73.85	343	eP	01	37.70	-2.1	TIA	147.01	339	ePKP	09	46.80	0.7
BMG	13.34	17	iPc	53	16.00		0.5s	3.50nm		4.6mb		TIY	147.03	346	ePKP	09	47.60	1.4	
ZOBO	13.63	141	P	53	18.00	AVE	76.38	54	iP	01	56.50	1.7	POO	148.91	63	iPKPc	09	54.50	4.9X
Z	18s	4.49um				IFR	78.28	54	iPd	02	07.00	1.4	SSE	149.53	328	PKPc	09	54.50	4.4X
		S	57	26.00	MAL	79.68	51	iPd	02	15.20	2.3	LZH	149.80	359	iPKPc	09	53.00	2.3	
LPB	13.85	141	P	53	21.90	TOL	80.78	48	iPd	02	20.50	1.8	NJ2	149.90	332	PKPd	09	55.00	4.3X
	1.0s	240.00nm		5.9mb		1.3s	76.92nm		5.5mb		XAN	151.31	350	PKP	09	53.50	0.7		
CNCB	14.13	142	P	53	24.00	INK	83.57	342	eP	02	32.00	-0.6	GKN	151.86	36	PKP	09	54.22	0.2
		i	53	35.00	SPA	84.29	180	iPc	02	37.40	0.9	KKN	152.39	35	PKP	09	55.36	0.5	
UPA	14.84	350	eP+	53	39.60		1.4s	21.57nm		5.1mb		DMN	152.43	36	PKP	09	55.36	0.4	
CCH	15.73	138	eP	53	46.10	EBR	84.38	48	eP	02	39.00	1.9	PKI	152.63	36	PKP	09	55.96	0.6
		i	53	55.20	BTH	84.38	46	Pd	02	38.50	1.4	GUN	152.64	34	PKP	09	55.60	0.2	
SDV	15.89	24	eP	53	51.00			epP	02	50.50	39kmX	WHN	153.11	338	ePKP	09	57.00	1.6	
TOV	17.05	25	eP	53	59.00	EPF	84.75	46	eP	02	40.20	1.1	GBA	153.69	71	PKPd	09	57.60	1.0
SIV	18.69	124	P	54	22.40		1.5s	91.40nm		5.7mb			0.6s	2.10nm					
CUM	20.60	39	eP	54	45.00	LPF	84.97	41	eP	02	40.10	0.1	CD2	154.96	358	ePKP	09	57.40	-0.6
		i	01	15.40		1.2s	35.70nm		5.4mb			S.D. = 1.1	on	116	of	131	obs.		
SLA	21.89	151	e(P)	55	01.00	GRR	85.18	41	eP	02	41.30	0.3	& APR	12, 1991	04h	14m	54.90s		
PAG	26.46	35	eP	55	41.00		1.3s	46.95nm		5.5mb			33.870 N			116.150 W			
DEG	27.04	36	eP	55	46.00	MFF	85.22	42	eP	02	41.70	0.4	DEPTH =	2.0km					
ROCH	27.66	169	eP	55	55.00		1.5s	62.70nm		5.6mb		SOUTHERN CALIFORNIA	(43)						
PEL	27.89	169	eP	55	56.50	MBC	85.44	351	ePc	02	42.70	0.9	<PAS>P>. ML 3.0 (PAS).						
	1.0s	60.00nm		5.2mb		1.0s	27.00nm		5.4mb		TPC	0.25	20	iPd	15	00.00	0.1		
PPD	29.69	126	(P)	56	11.00	LFF	85.45	44	eP	02	42.90	0.4	PLM	0.79	229	iP	15	09.80	-0.8
							1.1s	36.65nm		5.5mb		PEC	0.84	272	iPc	15	10.70	-1.0	
						FLN	85.51	40	eP	02	43.10	0.4	BAR	1.26	200	eP	15	17.60	-1.5
							1.5s	88.80nm		5.8mb				eS	15	34.30			
						Z	22s	0.15um		4.3msz		CPE	1.27	219	eP	15	17.70	-1.5	
						LDF	85.70	40	eP	02	44.00								

12d 04h

GLA 1.37 126 eS 15 37.10
 PEM 1.46 282 ePc 15 20.50 -0.5
 15 21.45 -0.9
 MWC 1.62 283 eS 15 40.53
 eP 15 24.30 -0.5
 eS 15 45.44
 CIS 1.94 257 eP 15 29.83 0.6
 10 obs. associated

• APR 12, 1991 04h 18m 13.82±1.08s
 31.082 S ± 9.4km 68.727 W ± 13.5km
 DEPTH = 33.0km (normal)
 SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.33 138 iPc 18 21.90 -0.1
 RTCB 0.41 189 iPd 18 23.70 0.5
 eS 18 34.90
 ZON 0.46 175 eP 18 23.80 -0.2
 eS 18 35.80
 CFA 0.67 142 ePc 18 31.00 4.1X
 eS 18 35.00
 RTBS 0.85 227 ePc 18 29.00 -0.3
 eS 18 45.00
 RTRS 1.11 325 iPc 18 33.10 0.1
 S 18 52.20
 S.D. = 0.5 an 5 af 6 obs.

? APR 12, 1991 04h 55m 22.16±1.07s
 37.973 N ± 11.2km 14.660 E ± 7.4km
 DEPTH = 10.0km (geophysicist)
 SICILY (398)

MNO 0.05 147 Pd 55 24.00 -0.5
 eSg 55 25.20
 GIB 0.50 272 P 55 32.30 0.0
 eSg 55 41.70
 ATN 0.66 73 P 55 35.50 0.2
 eSg 55 45.00
 MEU 0.90 166 P 55 39.80 0.4
 eSg 55 50.50
 S.D. = 0.7 an 4 af 4 obs.

? APR 12, 1991 04h 57m 57.25±1.17s
 31.597 S ± 19.5km 68.923 W ± 18.2km
 DEPTH = 90.0km (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.15 44 iPd 58 10.70 0.1
 eS 58 22.40
 RTBS 0.46 262 iPd 58 11.80 0.0
 RTLL 0.47 56 iPc 58 12.00 0.0
 (S) 58 24.40
 RTRS 1.49 342 e(P) 58 23.30 0.0
 S 58 44.00
 S.D. = 0.1 an 4 af 4 obs.

& APR 12, 1991 05h 41m 00.35s
 58.743 N 153.025 W
 DEPTH = 66.2km
 2.8mb (1 obs.)
 KODIAK ISLAND REGION (13)
 <AEIC>

SYI 0.36 112 iPc 41 11.17 -0.5
 eS 41 19.35
 AUI 0.63 341 iPc 41 13.71 -0.7
 eS 41 23.90
 AUH 0.66 341 iPc 41 14.26 -0.5
 eS 41 25.34
 MCNL 0.81 304 iPc 41 15.82 -0.7
 eS 41 26.66
 XLV 0.98 43 eP 41 18.13 -0.5
 PDB 1.21 331 iPc 41 20.45 -1.2
 eS 41 35.58
 CNPM 1.21 49 iPd 41 20.88 -0.8
 eS 41 36.83
 BRK 1.50 46 iPd 41 24.38 -1.3
 eS 41 43.16
 >NNL 1.58 33 iPd 41 26.45 -0.2
 RED 1.69 4 ePd 41 26.96 -1.3
 eS 41 47.59
 RSO 1.73 4 eP 41 27.87 -1.1
 eS 41 48.83
 RS2 1.73 4 eP 41 27.81 -1.2
 eS 41 49.20
 REF 1.76 5 eP 41 28.11 -1.3
 eS 41 49.61

RDN 1.78 4 ePc 41 28.68 -0.9
 eS 41 49.98
 RDT 1.86 9 ePc 41 29.46 -1.2
 eS 41 51.74
 SLKM 2.27 38 ePd 41 34.53 -1.8
 eS 42 01.24
 CKL 2.49 8 ePc 41 38.33 -1.1
 SPU 2.50 11 iPc 41 38.47 -1.0
 S 42 07.86
 8GL 2.55 7 eP 41 39.38 -0.9
 CRP 2.57 9 eP 41 39.67 -0.9
 NCG 2.70 9 eP 41 41.53 -0.9
 SVW 2.71 332 ePc 41 40.76 -1.7
 LTI 2.95 62 eP 41 43.60 -2.2
 SUA 2.96 22 ePc 41 45.10 -0.9
 PMS 3.05 33 ePc 41 45.22 -2.1
 KNIM 3.14 57 eP 41 45.60 -2.8
 SKT 3.33 12 eP 41 50.04 -1.1
 PLRM 3.46 33 ePd 41 50.53 -2.3
 KNK 3.52 39 ePc 41 51.32 -2.5
 GHO 3.66 32 eP 41 53.49 -2.4
 CUT 3.92 19 ePc 41 57.42 -1.9
 VZW 4.00 52 eP 41 57.30 -3.3
 VLZ 4.13 52 eP 41 59.39 -3.0
 SCM 4.20 40 ePc 42 00.95 -2.5
 KLU 4.50 49 ePc 42 04.78 -2.8
 SDG 5.29 41 eP 42 16.38 -2.2
 GLB 5.35 56 eP 42 15.99 -3.5
 YKA 19.02 62 eP 45 16.10 -3.2
 0.6s 0.40nm 2.8mb
 38 obs. associated

APR 12, 1991 08h 41m 30.35±0.33s
 13.058 N ± 7.2km 88.322 W ± 6.0km
 DEPTH = 67.8km (3 depth phases)
 5.0mb (20 obs.)
 EL SALVADOR (73)
 Felt (III) at San Salvador.
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 16C
 Centroid Location:
 Origin Time 08:41:33.7 1.1
 Lat 12.82N 0.09 Lon 89.07W 0.14
 Dep 15.0 FIX Half-duration 2.1
 Moment Tensor: Scale 10⁻¹⁷ Nm
 Mrr=0.72 0.08 Mtt=0.09 0.10
 Mff=-0.81 0.13 Mrt=1.54 0.20
 Mrf=-0.50 0.26 Mtf=0.37 0.08
 Principal Axes:
 T Val=1.98 Plg=51 Azm=5
 N -0.37 20 122
 P -1.62 32 225
 Best Double Couple: Mo=1.8×10⁻¹⁷
 NP1: Strike=2 Dip=22 Slip=152
 NP2: 118 80 70

SJAS 1.02 306 iPd 41 49.00 -0.4
 LFU 1.03 312 iPd 41 50.10 0.6
 VSS 1.12 307 iPd 41 51.10 0.4
 CUSS 1.79 298 iPc 41 59.20 -0.5
 TPX 4.24 296 iP 42 33.20 -0.8
 iS 43 14.30
 SCX 5.54 312 (P) 42 54.20 2.0
 OXX 9.05 297 iP 43 39.70 -1.2
 UPA 9.53 114 iPc 43 52.20 4.9X
 i 46 30.50
 IISM 10.51 305 iP 44 01.20 0.5
 (S) 45 58.00
 IIT 11.28 303 iP 44 11.50 0.2
 PPM 11.56 302 iP 44 15.80 0.5
 III 11.96 298 iP 44 19.80 -0.5
 CRX 12.60 302 (P) 44 30.00 1.1
 MRX 14.00 300 (P) 44 48.20 1.3
 RSCP 22.58 6 P 46 28.40 2.3
 TUL 23.73 345 eP 46 37.10 0.0
 0.8s 49.40nm 5.0mb
 Z 21s 0.42um 3.9msz
 eS 50 45.40
 LR 53 19.60
 FVM 24.89 356 P 46 48.70 0.4
 0.6s 17.56nm 4.7mb
 BLA 25.07 15 eP 46 52.50 2.4
 1.0s 44.00nm 4.9mb
 CBN 26.87 19 eP 47 09.00 2.4
 ALO 27.28 326 eP 47 10.00 -0.6
 1.5s 34.72nm 4.7mb

ANMO 27.28 326 P 47 10.70 0.1
 1.3s 28.85nm 4.7mb
 GLD 30.48 334 P 47 39.70 0.5
 1.5s 115.63nm 5.4mb
 GOL 30.50 334 P 47 38.80 -0.7
 0.7s 14.56nm 4.8mb
 GLA 31.32 314 eP 47 47.00 0.5
 PV09 31.36 328 P 47 46.00 -1.1
 PLM 32.93 313 eP 48 03.00 2.3
 RSSY 33.53 18 P 48 05.50 0.0
 ARE 33.72 150 e(P) 48 15.00 7.2X
 RSSD 33.76 339 P 48 08.50 0.6
 GSC 33.93 316 eP 48 09.00 -0.2
 SBB 34.30 314 eP 48 12.00 -0.4
 CLC 34.75 316 eP 48 16.00 -0.2
 BW06 34.85 332 P 48 16.50 -0.7
 1.0s 13.33nm 4.8mb
 ISA 35.27 315 eP 48 21.00 0.3
 ZOBO 35.32 145 P 48 23.00 1.1
 Z 24s 0.43um 4.1mszX
 LR 01 08.00
 LPB 35.55 145 P 48 25.00 1.4
 CNCB 35.84 145 P 48 27.50 1.3
 CCH 37.34 144 P 48 41.90 3.4X
 LRM 38.52 333 iPc 48 48.80 0.7
 i 49 05.90 69km
 ORV 39.38 318 P 48 55.50 0.5
 SES 41.60 338 ePc 49 13.40 0.2
 0.8s 40.00nm 5.3mb
 pP 49 30.00 66km
 NEW 42.47 332 P 49 19.90 -0.4
 0.7s 13.20nm 4.8mb
 FFC 42.93 348 iPc 49 24.30 0.4
 0.7s 26.00nm 5.1mb
 PNT 44.38 331 ePc 49 36.00 0.2
 0.9s 23.00nm 5.0mb
 EDM 44.74 339 iPc 49 38.00 -0.7
 SCH 44.95 18 ePc 49 40.30 0.0
 1.0s 60.00nm 5.4mb
 PGC 45.85 328 eP 49 47.00 -0.3
 PEL 48.93 160 eP 50 13.00 1.3
 PPD 50.34 133 eP 50 22.70 0.1
 FRB 52.49 11 ePc 50 36.20 -2.1
 0.5s 21.00nm 5.4mb
 YKA 52.81 345 eP 50 38.70 -2.0
 0.5s 17.20nm 5.3mb
 VAO 54.07 131 eP 50 50.10 -0.5
 PDCR 55.01 116 eP 50 54.90 -2.6
 e 51 59.40 297kmX
 INK 62.37 343 iPc 51 46.60 -1.3
 1.1s 57.00nm 5.6mb
 PMR 64.88 333 ePd 52 03.70 -0.7
 0.6s 9.50nm 4.9mb
 M8C 65.30 352 ePc 52 05.80 -1.1
 1.0s 13.00nm 4.8mb
 FBA 65.53 336 ePd 52 07.70 -0.8
 0.7s 13.30nm 5.0mb
 SVW 67.74 331 eP 52 21.30 -1.3
 LIC 82.11 85 P 53 46.80 1.3
 KIC 82.36 85 P 53 47.90 1.0
 APO 84.67 29 eP 53 56.80 -0.9
 1.4s 52.00nm 5.4mb
 KHC 87.86 40 P 54 13.00 -0.7
 e 54 32.00 68km
 TIY 125.87 340 PKPc 00 26.80 0.2
 GTA 127.26 352 ePKP 00 28.40 -0.9
 XAN 130.37 341 PKP 00 34.90 -0.3
 WHN 131.47 334 ePKP 00 39.00 1.7
 GYA 138.11 340 PKP 00 51.20 1.0
 WRA 138.61 255 PKP 00 51.00 -0.1
 0.7s 6.00nm
 GKN 138.62 9 PKP 00 49.92 -1.2
 ASPA 138.70 249 ePKP 00 46.50 -4.7X
 1.9s 5.30nm
 GUN 138.89 8 PKP 00 48.14 -3.7X
 DMN 139.08 9 PKP 00 50.04 -2.1
 PKI 139.16 9 PKP 00 49.84 -2.5
 HYB 147.06 23 ePKP 01 06.10 0.3
 CHG 147.53 347 ePKP 01 05.60 -0.9
 GBA 149.99 29 PKP 01 17.00 6.7X
 MUN 150.66 226 ePKP 01 17.00 6.0X
 e 01 35.00
 BAL 151.05 229 ePKP 01 17.50 5.9X
 e 01 36.00
 KHT 151.50 346 ePKP 01 18.70 6.1X
 MBL 151.95 249 ePKP 01 20.00 6.8X
 S.D. = 1.1 on 70 af 80 obs.

* APR 12, 1991 09h 34m 43.35±3.00s
47.779 N ±10.4km 8.065 E ±19.8km
DEPTH = 5.0km (geophysicist)
SWITZERLAND (544)
MD 2.3 (STR).

FEL 0.10 340 ePg 34 45.63 -0.1
MOF 0.63 277 Pg 34 55.85 -0.2
ECH 0.75 306 Pg 34 58.36 0.0
WLS 0.79 323 Pg 34 59.20 -0.1
CDF 0.83 320 Pg 35 00.00 0.1
Sg 35 11.65
BSF 0.86 274 Pg 35 00.71 0.3
Sg 35 12.87
LOMF 0.94 243 Pg 35 01.74 -0.1
S.D. = 0.2 on 7 of 7 obs.

? APR 12, 1991 09h 43m 03.05±1.10s
39.141 N ±9.1km 27.554 E ±15.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.5 (ISK).

IZM 0.78 197 ePg 43 18.10 -0.1
eSg 43 30.10
DST 0.95 61 ePn 43 21.90 0.7
KCT 1.27 29 ePn 43 25.50 -1.1
KGT 1.32 352 ePn 43 28.00 0.5
S.D. = 1.4 on 4 of 4 obs.

? APR 12, 1991 10h 17m 58.26±1.02s
39.096 N ±10.2km 27.662 E ±15.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

IZM 0.76 204 iPg 18 13.10 -0.1
iSg 18 24.60
DST 0.91 56 ePn 18 16.10 0.5
KCT 1.27 25 ePn 18 21.00 -0.8
KGT 1.38 349 ePn 18 24.00 0.5
S.D. = 1.1 on 4 of 4 obs.

APR 12, 1991 10h 21m 38.50±0.96s
23.746 N ±6.8km 121.582 E ±12.7km
DEPTH = 10.0km (geophysicist)
3.8mb (1 obs.)
TAIWAN (244)

TWD 0.33 2 iPd 21 45.90 0.5
eS 21 50.60
TWF1 0.47 214 iPd 21 47.60 -0.5
eS 21 54.50
TWO 0.86 308 iPd 21 54.80 -0.3
eS 22 06.10
TWC 0.89 16 iPd 21 56.40 0.8
TWG 1.03 207 ePd 21 59.20 1.2
TWK 1.11 245 ePd 21 59.50 0.1
eS 22 14.50
SSE 7.33 357 ePd 23 28.00 -0.1
Z 10s 0.50um
eS 24 46.30
Lg 25 30.00
YKA 83.23 23 ePd 34 04.50 -1.6
0.8s 0.50nm 3.8mb
S.D. = 1.0 on 8 of 8 obs.

? APR 12, 1991 10h 32m 16.00±0.99s
39.124 N ±8.5km 27.615 E ±13.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.5 (ISK).

IZM 0.78 201 ePg 32 31.10 0.0
iSg 32 42.10
DST 0.92 58 ePn 32 33.90 0.3
KCT 1.26 27 ePn 32 39.00 -0.4
KGT 1.35 350 ePn 32 41.00 0.2
S.D. = 0.6 on 4 of 4 obs.

APR 12, 1991 10h 51m 19.96±0.74s
33.976 N ±6.2km 118.794 W ±5.8km
DEPTH = 10.0km (geophysicist)
SOUTHERN CALIFORNIA (43)
ML 2.7 (GS).

SCY 0.31 65 iPd 51 26.68 0.3
eS 51 31.46
PVPS 0.38 120 iPd 51 27.89 0.2
eS 51 33.62
TCC 0.65 88 ePd 51 33.69 0.7
CIS 0.66 150 ePd 51 32.91 -0.1
eS 51 41.98
MWC 0.66 68 ePd 51 32.89 -0.3
eS 51 41.99
PEM 0.79 76 ePd 51 35.00 -0.4
VPD 0.87 100 ePd 51 36.65 -0.1
ABL 0.94 338 ePd 51 37.70 -0.4
BCH 1.61 319 ePd 51 49.00 0.4
PLM 1.73 111 ePd 51 50.00 -0.4
S.D. = 0.4 on 10 of 10 obs.

& APR 12, 1991 11h 12m 11.62s
41.151 N 73.653 W
DEPTH = 9.4km
NEW YORK (472)
<WES>. MD 2.7 (WES). 2.0 (PAL).
Felt (IV) at Glenville and
Stomford, Connecticut. Felt (II)
at Chappaquo, New York. Felt in
ports of Westchester County, New
York and Fairfield County,
Connecticut.

BCT 0.40 31 ePd 12 19.38 -0.3
iS 12 24.66
TBR 0.43 269 ePd 12 20.50 0.1
LVNJ 0.91 248 ePd 12 28.00 -1.1
MD5 0.92 70 ePd 12 28.24 -1.1
eS 12 42.46
MD3 0.96 68 iPd 12 29.10 -0.8
eS 12 41.48
MD2 0.99 67 ePd 12 29.70 -0.8
eS 12 42.20
6 obs. associated

& APR 12, 1991 12h 43m 33.22s
59.891 N 153.230 W
DEPTH = 118.0km
SOUTHERN ALASKA (2)
<AEIC>.

PDB 0.50 258 iPd 43 50.25 -0.9
eS 44 03.53
AUH 0.54 192 ePd 43 50.83 -0.7
AUI 0.57 190 iPd 43 50.89 -0.7
eS 44 04.28
RED 0.58 23 iPd 43 50.95 -0.9
eS 44 04.95
RS2 0.62 22 iPd 43 51.48 -0.8
eS 44 05.92
RSO 0.62 22 iPd 43 51.45 -0.8
eS 44 05.63
RDW 0.63 19 iPd 43 51.45 -0.9
eS 44 06.03
REF 0.66 24 iPd 43 51.70 -0.8
eS 44 06.15
RDN 0.67 20 iPd 43 51.78 -0.8
eS 44 06.38
NCT 0.69 12 iPd 43 51.92 -0.8
eS 44 06.25
DFR 0.75 21 iPd 43 52.36 -0.8
eS 44 07.43
RDT 0.80 31 iPd 43 52.67 -0.9
eS 44 07.34
XLV 0.88 119 ePd 43 53.55 -0.7
eS 44 08.81
MCNL 0.91 219 iPd 43 53.41 -1.0
eS 44 08.90
NNL 0.98 80 ePd 43 55.31 0.1
CNPM 1.08 109 iPd 43 55.18 -1.0
BRK 1.19 95 ePd 43 56.51 -0.9
eS 44 14.06
NKA 1.31 48 iPd 43 59.45 0.8
SYI 1.36 161 ePd 43 58.07 -1.1
CKL 1.38 18 iPd 43 58.98 -0.7
eS 44 18.36
BCL 1.44 16 iPd 43 59.78 -0.5
CRP 1.48 21 ePd 44 00.17 -0.7
NCG 1.61 19 ePd 44 01.65 -0.6
SLKM 1.63 66 iPd 44 01.14 -1.3
SEW 1.91 82 ePd 44 04.54 -1.3
SUA 2.00 37 iPd 44 06.33 -0.8

SKT 2.25 21 ePd 44 09.25 -1.1
eS 44 09.25
PMS 2.26 52 ePd 44 09.10 -1.4
PWA 2.41 42 ePd 44 11.00 -1.3
PLRM 2.64 48 ePd 44 12.98 -2.3
LTI 2.71 85 ePd 44 14.72 -1.5
KNIM 2.79 78 ePd 44 14.72 -2.6
KNK 2.80 55 ePd 44 15.07 -2.5
MTU 2.81 86 ePd 44 16.07 -1.5
CHO 2.83 46 ePd 44 16.00 -1.9
CUT 2.90 28 ePd 44 17.25 -1.5
GLI 3.20 69 ePd 44 20.23 -2.6
SCM 3.48 53 ePd 44 24.21 -2.5
VZW 3.51 68 ePd 44 24.35 -2.6
VLZ 3.63 67 ePd 44 26.14 -2.4
KLU 3.94 63 iPd 44 29.99 -2.8
TOA 4.09 54 ePd 44 32.51 -2.4
RND 4.10 29 ePd 44 32.98 -2.0
SDG 4.56 51 ePd 44 39.52 -1.7
GLB 4.89 67 ePd 44 42.89 -2.8
BALM 5.51 73 ePd 44 52.18 -2.1
CTGM 5.99 75 ePd 44 59.35 -1.6
47 obs. associated

% APR 12, 1991 12h 45m 48.25±0.73s
40.713 N ±7.5km 16.247 E ±6.3km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

BAI 0.62 49 P 46 00.00 -0.7
eSg 46 09.00
ORI 0.67 167 P 46 01.50 0.0
eSg 46 10.30
SGO 0.73 258 P 46 03.00 0.4
eSg 46 14.10
BRT 0.74 77 P 46 02.10 -0.7
eSg 46 13.00
MGR 0.78 223 P 46 03.40 -0.1
eSg 46 13.90
TDS 1.06 176 P 46 07.00 -1.1
LCI 1.35 106 P 46 15.30 2.2
eSg 46 36.10
DUI 1.65 306 P 46 17.50 0.1
S.D. = 1.2 on 8 of 8 obs.

? APR 12, 1991 13h 18m 15.12±0.95s
59.535 N ±7.5km 5.468 E ±13.0km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 1.7 (BER).

KMY 0.34 199 ePd 18 22.16 0.0
eS 18 27.45
ODD1 0.70 57 ePd 18 28.97 0.0
ASK 0.96 352 ePd 18 32.98 -0.4
eS 18 45.80
SUE 1.57 347 ePd 18 43.40 0.4
eS 19 02.20
S.D. = 0.6 on 4 of 4 obs.

APR 12, 1991 13h 26m 47.51±0.74s
41.120 N ±6.5km 22.480 E ±6.0km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.7 (SKO). Felt (III) at
Gevgelija.

GRG 0.17 200 iPd 26 51.64 0.2
eS 26 54.80
VAY 0.21 19 iPd 26 52.00 -0.1
iSg 26 55.40
KNT 0.32 82 ePd 26 54.37 0.2
eS 26 59.20
THE 0.61 143 ePd 26 59.44 -0.4
eS 27 07.64
SOH 0.73 114 iPd 27 01.88 0.1
eS 27 11.88
FNA 0.90 248 ePd 27 04.80 0.0
eS 27 17.28
S.D. = 0.3 on 6 of 6 obs.

* APR 12, 1991 14h 25m 27.27±0.82s
22.711 S ±22.7km 170.698 E ±11.9km
DEPTH = 33.0km (normal)
4.1mb (2 obs.) 4.1msz (1 obs.)
LOYALTY ISLANDS REGION (189)

12d 14h

DZM 3.99 278 iPd 26 26.30 -1.4
 SGE 8.49 54 ePc 27 11.30
 HNR 16.75 320 eP 27 30.20 -0.8
 RMO 20.30 255 eP 29 22.00 0.9
 ASPA 33.78 261 eP 30 04.00 0.9
 0.9s 7.20nm 4.6mb
 Z 22s 0.40um 4.1Msz
 WRA 33.93 268 P 32 13.00 3.3X
 2.8s 2.50nm 3.6mb
 CHG 81.33 294 eP 37 42.50 0.2
 KSP 145.57 331 ePKP 45 00.70 -2.8
 ic 45 02.80
 CLL 146.62 334 iPKP 45 05.60 0.4
 SRO 146.62 325 ePKP 45 04.60 -0.7
 PRU 146.97 331 ePKP 45 05.00 -0.8
 EKA 147.10 354 PKPc 45 05.70 -0.1
 0.8s 7.50nm
 MOX 147.69 335 ePKP 45 08.50 1.5
 KHC 148.02 331 PKP 45 09.00 1.4
 GRF 148.60 334 e(PKP) 45 11.00 2.5
 e 45 14.10
 KBA 149.62 329 ePKP 45 10.00 -0.3
 i 45 19.00
 MEM 149.69 341 PKPc 45 13.30 3.3X
 DOU 150.57 342 PKPc 45 15.70 4.3X
 S.D. = 1.4 on 15 of 18 obs.

* APR 12, 1991 14h 32m 38.84 ± 1.11s
 59.629 N ± 12.6km 10.404 E ± 6.4km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN NORWAY (535)
 MD 2.3 (BER).

NRA0 1.25 27 Pg 33 02.00 0.0
 Lg 33 20.80
 HFS 1.74 72 eP 33 09.20 0.0
 0.3s 16.60nm
 ODD1 1.93 280 eP 33 12.88 0.8
 HYA 2.60 308 iPc 33 21.88 0.3
 KMY 2.67 263 eP 33 22.25 -0.3
 ASK 2.75 290 eP 33 23.62 -0.1
 SUE 3.15 299 eP 33 28.72 -0.6
 MOL 3.26 336 eP 33 30.94 0.0
 S.D. = 0.5 on 8 of 8 obs.

% APR 12, 1991 14h 40m 14.71 ± 1.03s
 31.635 S ± 18.0km 60.991 W ± 13.7km
 DEPTH = 90.0km (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.22 48 iPd 40 28.50 0.2
 eS 40 39.90
 RTBS 0.39 266 ePc 40 28.80 0.0
 RTLL 0.54 56 iPc 40 30.00 -0.1
 CFA 0.64 88 iPc 40 30.90 -0.1
 eS 40 44.80
 RTRS 1.51 344 iPc 40 41.00 0.0
 S 41 02.00
 S.D. = 0.1 on 5 of 5 obs.

? APR 12, 1991 14h 54m 08.86 ± 7.02s
 16.642 N ± 19.0km 60.839 W ± 60.3km
 DEPTH = 33.0km (normal)
 LEEWARD ISLANDS (92)
 ML 2.1 (FDF).

DEG 0.39 213 ePd 54 18.04 0.1
 S 54 22.60
 SFG 0.52 222 eP 54 19.00 -0.7
 SEG 0.68 250 ePc 54 21.93 -0.1
 S 54 30.00
 DOG 0.96 231 eP 54 26.26 0.2
 PAG 1.01 233 eP 54 27.40 0.6
 S 54 37.00
 BPA 1.05 293 eP 54 27.30 -0.1
 S.D. = 0.5 on 6 of 6 obs.

* APR 12, 1991 15h 44m 05.50 ± 1.09s
 36.969 N ± 13.5km 29.428 E ± 7.7km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.2 (ISK).

ELL 0.44 120 iPg 44 14.00 -0.6
 iSg 44 21.00
 YER 0.93 281 ePn 44 23.50 0.2

BCK 1.05 62 iPn 44 26.70 1.4
 CIN 1.24 301 eP 44 29.00 0.4
 KHL 1.35 3 ePn 44 29.00 -1.5
 S.D. = 1.5 on 5 of 5 obs.

? APR 12, 1991 16h 00m 42.27 ± 11.82s
 18.951 N ± 89.6km 65.900 W ± 43.3km
 DEPTH = 33.0km (normal)

PUERTO RICO REGION (90)

LPR 0.64 177 P 00 54.90 0.0
 S 01 02.90
 SJG 0.87 196 iP 00 58.00 -0.1
 CPD 0.91 181 P 00 58.00 -0.7
 CLLP 1.08 217 P 01 01.00 -0.1
 S 01 13.90
 LRS 1.11 234 P 01 01.40 -0.2
 S 01 14.90
 PORP 1.13 218 P 01 01.60 -0.3
 MGP 1.47 230 P 01 06.30 -0.4
 S.D. = 0.3 on 7 of 7 obs.

APR 12, 1991 16h 14m 47.90 ± 0.55s
 39.385 N ± 6.6km 20.598 E ± 4.1km
 DEPTH = 10.0km (geophysicist)
 3.5mb (2 obs.)

GREECE-ALBANIA BORDER REGION (392)
 MD 3.4 (THE).

KEK 0.70 298 eP 15 00.50 -1.2
 VLS 1.21 180 eP 15 10.00 -0.4
 KZN 1.29 44 eP 15 11.50 -0.3
 AGG 1.39 105 iPd 15 13.02 -0.4
 eS 15 35.46
 FNA 1.52 23 ePc 15 15.46 0.3
 eS 15 39.50
 LIT 1.62 63 ePc 15 17.06 0.4
 eS 15 42.02
 OHR 1.73 5 iPn 15 20.50 2.3X
 iSn 15 43.40
 Lg 15 48.60
 GRG 2.09 41 ePd 15 23.78 0.3
 eS 15 54.82
 LCI 2.25 296 P 15 28.70 3.1X
 PAIG 2.44 76 ePc 15 27.58 -0.8
 eS 15 58.54
 VAY 2.45 37 ePn 15 29.00 0.5
 KNT 2.50 44 ePc 15 29.42 0.2
 iS 16 01.34
 SOH 2.55 55 iPd 15 30.74 0.7
 iS 16 04.34
 SKO 2.66 14 iPn 15 31.80 0.2
 BRT 3.00 301 P 15 38.00 1.7
 VLI 3.24 145 eP 15 44.50 4.7X
 ORI 3.27 283 P 15 41.00 0.8
 TDS 3.31 276 P 15 42.00 1.3
 MGR 3.96 283 P 15 49.70 -0.3
 SGO 4.23 288 P 15 54.00 0.2
 HVAR 4.91 322 e(Pn) 16 00.60 -2.9
 MLR 7.27 31 eP 16 32.00 -4.8X
 HFS 21.22 350 eP 19 30.50 -5.3X
 0.4s 0.80nm 3.5mb
 NB2 22.45 348 P 19 44.50 -3.7X
 0.5s 0.80nm 3.4mb
 S.D. = 1.1 on 18 of 24 obs.

APR 12, 1991 17h 00m 04.15 ± 0.26s
 5.881 S ± 4.8km 77.089 W ± 6.6km
 DEPTH = 33.0km (normal)
 5.1mb (28 obs.) 4.2Msz (4 obs.)
 NORTHERN PERU (111)

TUNG 4.64 343 P 01 12.80 -1.2
 VC1 5.37 346 P 01 23.50 -1.1
 YANA 5.92 345 eP 01 32.30 0.0
 CAYA 5.99 351 eP 01 32.00 -1.3
 NNA 6.07 178 eP 01 31.80 -2.3
 0.8s 44.78nm 5.2mb
 i 01 34.50
 eS 02 44.50
 BOG 10.86 16 eP 02 45.00 4.2X
 eS 05 24.00
 ARE 11.86 153 eP 02 41.00 -13.3X
 BMG 13.48 17 eP 03 16.00 0.3
 ZOBO 13.56 140 iPd 03 15.70 -1.5
 LR 09 04.00
 LPB 13.77 141 P 03 19.80 0.0

1.0s 120.00nm 5.7mb
 LR 09 18.00
 CNCB 14.05 141 iPc 03 23.00 -0.7
 UPA 14.96 351 iPc 03 34.30 -0.8
 1.2s 103.13nm 5.0mb

CCH 15.66 138 P 03 45.30 0.9
 SDV 16.02 24 eP 03 50.00 1.1
 TOV 17.18 25 eP 04 02.00 -1.5
 SIV 18.64 124 P 04 18.80 -2.8
 VAO 33.65 123 eP 06 43.30 -1.0
 PDCR 38.02 103 eP 07 17.90 -3.5X
 JSC 40.14 355 P 07 38.00 -0.7
 RSCP 42.02 350 P 07 56.00 1.8
 CVL 43.65 358 P 08 07.80 0.4
 TUL 45.13 338 eP 08 18.70 -0.7
 1.2s 41.30nm 5.2mb
 Z 21s 0.14um 3.9Msz

ALO 49.14 328 ePc 08 51.00 -0.1
 1.0s 15.00nm 5.0mb
 ANMO 49.14 328 P 08 51.50 0.4
 0.9s 44.12nm 5.5mb
 GOL 52.33 332 P 09 14.50 -0.9
 0.8s 4.46nm 4.5mb

GLA 52.74 320 eP 09 19.00 0.7
 MSU 54.86 327 P 09 33.50 -0.6
 RSSD 55.38 337 P 09 36.30 -1.4
 1.0s 11.52nm 4.9mb

GSC 55.43 321 eP 09 39.00 0.9
 SBB 55.70 319 eP 09 41.00 1.0
 CLC 56.26 321 eP 09 44.00 0.0
 BW06 56.69 332 P 09 45.00 -2.2
 0.9s 4.94nm 4.5mb
 ISA 56.72 320 eP 09 48.00 0.7
 TNP 57.47 323 P 09 52.30 -0.4
 0.8s 2.45nm 4.3mb

KVN 58.62 323 P 09 58.80 -2.0
 LRM 60.36 332 eP 10 11.90 -0.8
 ORV 61.00 322 P 10 17.00 0.2
 LBFM 62.32 323 P 10 25.00 -1.0
 SES 63.26 336 eP 10 31.00 -0.8
 FFC 63.86 344 ePc 10 34.40 -1.2
 1.3s 36.00nm 5.3mb
 NEW 64.33 332 P 10 38.20 -0.6
 0.9s 10.96nm 5.0mb

LON 65.66 328 P 10 47.00 -0.5
 PNT 66.25 331 ePd 10 52.00 0.9
 0.6s 6.00nm 4.9mb
 LKO 72.87 78 P 11 31.84 -0.6
 1.1s 33.00nm 5.2mb
 LIC 72.92 82 P 11 32.30 -0.4
 TIC 72.99 81 P 11 32.92 -0.2
 1.0s 19.50nm 5.0mb

KIC 73.22 82 Pc 11 34.38 -0.1
 0.9s 20.00nm 5.1mb
 YKA 73.97 343 eP 11 34.50 -3.3X
 0.9s 2.30nm 4.2mb
 TOL 80.89 48 eP 12 19.00 2.3
 INK 83.68 342 eP 12 30.00 -0.5
 NVL 84.13 161 (P) 12 34.00 1.2
 SPA 84.16 180 eP 12 34.00 0.8
 1.2s 16.90nm 5.1mb
 EPF 84.86 46 eP 12 37.80 0.7
 1.0s 20.00nm 5.3mb

LPF 85.09 41 eP 12 38.10 0.1
 1.2s 17.85nm 5.1mb
 KLU 85.24 333 P 12 39.20 0.6
 GRR 85.30 41 eP 12 39.40 0.4
 MFF 85.34 42 eP 12 39.70 0.4
 MBC 85.56 351 eP 12 41.50 1.7
 1.2s 28.00nm 5.4mb
 LFF 85.57 44 eP 12 40.80 0.4
 1.0s 18.00nm 5.2mb

FLN 85.63 40 eP 12 41.00 0.3
 Z 20s 0.10um 4.2Msz
 LPO 85.82 44 eP 12 41.90 0.2
 1.3s 21.65nm 5.2mb
 LDF 85.82 40 eP 12 41.80 0.1
 RJF 86.18 44 eP 12 43.40 -0.1
 Z 22s 0.10um 4.2Msz

SMF 88.04 43 eP 12 52.00 -0.5
 1.2s 11.90nm 5.1mb
 PDB 88.60 330 P 12 54.60 -0.2
 LRG 89.26 46 eP 12 58.50 0.2
 Z 20s 0.20um 4.5Msz
 LMR 89.35 46 eP 12 58.90 0.1
 1.1s 12.20nm 5.1mb

FRF	89.48	46 eP	12 59.30	-0.1
	1.0s	12.00nm		5.1mb
LPL	89.83	44 eP	13 01.80	0.5
	1.1s	8.55nm		4.9mb
LPG	89.84	44 eP	13 01.90	0.5
IMA	89.93	337 P	13 01.60	0.4
	1.0s	5.00nm		4.7mb
SBF	90.09	46 eP	13 02.20	-0.1
BSF	90.22	42 eP	13 02.30	-0.6
CDF	90.62	42 eP	13 04.20	-0.5
WRA	139.82	229 PKP	19 43.00	11.4X
	1.0s	2.80nm		
WMO	139.91	17 PKP	19 33.20	2.0
BJI	143.96	343 ePKP	19 38.00	-0.2
HHC	144.33	349 ePKP	19 36.00	-3.0X
BTO	144.85	351 ePKP	19 39.00	-0.9
GTA	146.50	4 PKP	19 44.40	1.6
NDI	146.75	44 ePKP	19 45.00	1.7
TIY	147.15	346 ePKP	19 45.50	1.7
SSE	149.62	328 PKP	19 53.00	5.3X
LZH	149.93	358 PKPc	19 53.00	4.7X
XAN	151.43	350 PKP	19 50.90	0.5
GKN	151.98	36 PKP	19 52.52	0.9
KKN	152.52	36 PKP	19 53.20	0.8
DMN	152.55	36 PKP	19 53.60	1.1
PKI	152.76	36 PKP	19 53.90	1.0
GUN	152.77	35 PKP	19 58.00	5.1X
HYB	153.57	62 ePKP	20 00.00	6.1X
LSA	153.84	24 PKP	19 56.20	1.7
CD2	155.09	358 ePKP	20 01.20	5.6X

S.D. = 1.0 on 82 of 93 obs.

* APR 12, 1991 18h 27m 30.05 ± 0.69s
29.047 N ± 7.6km 141.716 E ± 16.9km
DEPTH = 33.0km (normal)
4.4mb (6 obs.)

SOUTH OF HONSHU, JAPAN (211)

KAKJ	7.25	350 P	29 15.50	-0.9
		eS	30 32.70	
CHJJ	7.35	342 P	29 18.30	0.5
MAT	8.03	339 (P)	29 27.00	-0.4
	0.7s	11.64nm		5.1mb X
		eS	30 54.00	
MTMJ	8.20	337 eP	29 31.40	1.6
NIJ	8.48	345 eP	29 32.00	-1.5
YAMJ	9.21	352 eP	29 41.50	-2.1
		eS	31 24.10	
OFUJ	10.01	360 eP	29 50.80	-3.8X
		eS	31 35.40	
YAK	33.91	350 eP	34 23.00	11.3X
CHG	40.21	265 eP	35 06.40	1.0
GUN	48.70	283 P	36 14.50	0.7
WB2	49.22	189 iPc	36 17.60	0.3
	0.4s	9.70nm		5.2mb
WRA	49.22	189 P	36 17.00	-0.3
	0.4s	6.80nm		5.0mb
KKN	49.24	283 P	36 22.30	4.5X
GKN	49.73	283 P	36 25.50	4.0X
ASPA	52.95	189 iPd	36 43.00	-2.5
	1.4s	5.90nm		4.4mb
FBA	55.83	29 P	37 07.60	1.4
INK	61.44	25 eP	37 58.00	12.9X
MBC	64.12	15 eP	38 03.50	0.7
YKA	70.63	29 eP	38 43.90	0.0
	0.7s	0.50nm		3.7mb
FFC	80.31	32 eP	39 40.00	1.0
	0.7s	4.00nm		4.5mb
HFS	81.47	337 eP	39 45.50	0.5
	0.5s	0.50nm		3.8mb

S.D. = 1.3 on 16 of 21 obs.

? APR 12, 1991 18h 39m 18.29 ± 1.03s
37.036 N ± 10.0km 29.483 E ± 8.1km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 3.4 (ISK).

ELL	0.45	130 iPg	39 27.00	-0.4
		iSg	39 33.00	
YER	0.97	276 ePn	39 37.00	0.3
BCK	0.98	64 iPn	39 37.70	0.8
KHL	1.29	1 ePn	39 41.50	-0.7

S.D. = 1.1 on 4 of 4 obs.

& APR 12, 1991 19h 45m 06.70s
34.510 N 119.020 W

DEPTH = 4.0km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.5 (PAS). Felt
(111) at Fillmore and Ventura.
Also felt at Ojai.

ABL	0.38	334 iPd	45 14.10	-0.2
SCY	0.62	131 iPd	45 17.86	-1.2
SYF	0.79	271 iPc	45 21.80	-0.7
MWC	0.85	109 iPc	45 22.00	-1.5
PVPS	0.88	144 eP	45 22.26	-1.9
FMA	1.00	142 eP	45 24.35	-1.9
SBB	1.00	79 iPc	45 24.70	-1.6
PEM	1.01	109 ePc	45 24.58	-1.8
		eS	45 38.58	
BCH	1.10	308 eP	45 27.00	-1.1
BLP	1.14	273 eP	45 26.70	-1.9
CIS	1.21	155 iP	45 27.20	-2.7
VPD	1.25	123 eP	45 28.64	-1.9
		eS	45 46.30	
PEC	1.66	111 eP	45 34.00	-2.7
CLC	1.75	41 ePc	45 36.10	-2.0
PKEM	1.79	330 eP	45 37.40	-1.1
PRI	2.11	321 ePd	45 41.70	-1.7
		iS	46 13.90	
PLM	2.13	122 eP	45 42.00	-1.8
TPC	2.49	98 eP	45 46.60	-2.2
FRI	2.54	347 eP	45 47.20	-2.1
		iS	46 18.20	
LLA	2.62	324 eP	45 49.30	-1.3
PRS	2.64	314 ePc	45 48.00	-2.9
SAO	2.99	319 iP	45 53.00	-2.8
BONR	3.49	9 eP	46 03.00	-0.1
ARN	3.49	325 eP	46 00.50	-2.4
CMB	3.69	343 eP	46 04.00	-1.7
TNP	3.85	22 e(P)	46 08.00	-0.2
KVN	4.59	9 eP	46 18.00	-0.7

27 obs. associated

? APR 12, 1991 19h 49m 51.03 ± 9.52s
32.515 S ± 85.3km 69.711 W ± 48.1km
DEPTH = 110.0km (geophysicist)

MENDOZA PROVINCE, ARGENTINA (139)

RTBS	0.88	15 ePc	50 11.20	0.0
RTCB	1.28	37 ePc	50 15.90	0.1
		eS	50 33.30	
RTLL	1.58	42 iPd	50 19.20	-0.1
		(S)	50 40.80	
RTRS	2.35	5 ePc	50 29.00	0.0
		S	50 58.00	

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

* APR 12, 1991 19h 57m 32.85 ± 3.99s
39.085 N ± 29.2km 22.394 E ± 9.0km
DEPTH = 64.1 ± 35.8 km

GREECE (364)

MD 2.4 (THE).

AGG	0.08	218 iPc	57 42.25	0.0
		eS	57 50.96	
LIT	1.02	4 iPd	57 51.61	0.0
		eS	58 07.68	
PAIG	1.30	49 iPd	57 55.32	0.0
		eS	58 14.20	
OUR	1.75	44 ePd	58 01.50	0.1
FNA	1.87	336 iPc	58 03.04	-0.2
		eS	58 26.72	
GRG	1.87	0 ePc	58 03.04	-0.1
		eS	58 28.76	
SOH	1.88	23 ePc	58 03.89	0.5
KNT	2.11	10 ePc	58 06.53	0.0
SRS	2.23	24 iPc	58 07.70	-0.5
OHR	2.36	329 e(Pn)	58 10.30	0.2

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

? APR 12, 1991 20h 44m 29.19 ± 7.50s
14.544 N ± 34.3km 60.295 W ± 54.9km
DEPTH = 33.0km (normal)

WINDWARD ISLANDS (95)

ML 2.8 (FDF).

MVM	0.58	271 iPd	44 41.19	0.2
CRM	0.64	289 iPd	44 41.25	-0.5
		S	44 46.80	
BIM	0.75	268 iPd	44 43.62	0.3
		S	44 50.70	

FDF	0.85	283 iPd	44 44.27	-0.5
		S	44 52.60	
BBL	1.50	311 eP	44 54.65	0.5
		S	45 10.30	
MGG	1.68	324 eP	44 56.00	-0.7
DEG	1.91	337 eP	44 59.90	-0.1
PAG	1.99	318 eP	45 02.00	0.7
		S	45 22.50	
SEG	2.19	328 eP	45 04.00	0.1

S.D. = 0.6 on 9 of 9 obs.

% APR 12, 1991 21h 48m 15.72 ± 1.34s
16.284 N ± 8.7km 61.830 W ± 14.5km
DEPTH = 33.0km (normal)

LEEWARD ISLANDS (92)

PAG	0.29	150 ePc	48 23.36	-0.1
		S	48 28.70	
DOG	0.32	141 ePc	48 23.82	0.0
SEG	0.33	69 Pc	48 23.38	-0.5
SFG	0.61	93 eP	48 28.20	0.3
DEG	0.74	88 eP	48 29.90	0.1
BPA	0.76	358 eP	48 30.10	0.1

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

* APR 12, 1991 21h 56m 55.40 ± 1.04s
37.610 N ± 8.4km 32.047 E ± 10.0km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 3.7 (ISK).

BCK	1.17	263 iPn	57 15.80	-1.5
ELL	1.91	244 iPn	57 31.00	2.5
ALT	2.10	314 ePn	57 31.00	-0.1
KHL	2.12	290 ePn	57 31.00	-0.4
BBTK	2.30	14 ePn	57 34.00	0.0
		i	57 39.00	
		iS	58 12.00	
CSS	2.84	158 eP	57 41.00	-0.6
YER	3.04	262 ePn	57 44.00	-0.4
EYL	3.30	334 ePn	57 49.00	0.8
DST	3.34	308 ePn	57 48.40	-0.3
YLV	3.61	326 ePn	58 03.00	10.4X

S.D. = 1.3 on 9 of 10 obs.

APR 12, 1991 22h 20m 47.73 ± 0.57s
41.506 N ± 7.4km 20.109 E ± 5.9km
DEPTH = 10.0km (geophysicist)

ALBANIA (391)

ML 3.0 (TTG). MD 2.8 (THE).

OHR	0.65	127 iPg	21 00.20	-0.6
		iSg	21 11.10	
		Lg	21 12.30	
ULC	0.79	306 iPgd	21 02.60	-0.5
		iSg	21 14.24	
PVY	1.09	355 iPgc	21 07.25	-1.1
		iSg	21 22.94	
SKO	1.10	64 iPgd	21 09.00	0.6
		iSg	21 21.50	
		Lg	21 23.00	
TTG	1.12	326 iPgc	21 08.15	-0.5
		iSg	21 24.90	
FNA	1.20	127 ePd	21 10.08	0.0
		eS	21 27.36	
BDV	1.23	310 iPgc	21 10.69	0.0
		iSg	21 29.77	
IVA	1.37	354 iPgd	21 12.20	-0.8
		iSg	21 33.19	
HCY	1.53	309 iPgd	21 15.25	0.2
		iSg	21 38.75	
NKY	1.55	328 iPgd	21 15.50	0.1
		iSg	21 39.84	
GRG	1.81	107 ePc	21 19.92	0.7
		eS	21 46.36	
BRY	1.82	321 iPnc	21 20.45	1.1
		iSn	21 46.60	
VAY	1.86	95 iPn	21 19.50	-0.4
		i	21 21.40	
		iSn	21 43.00	
PLE	1.90	344 iPnc	21 21.80	1.3
		iSn	21 48.54	
IGT	1.98	175 ePd	21 25.72	4.1X
		eS	21 55.12	
BRT	2.28	255 P	21 35.00	9.0X
		(Sn)	22 03.50	
LIT	2.29	127 ePd	21 29.56	3.4X

12d 22h

THE 2.33 111 eS 21 59.36
 HVAR 3.19 303 i(Pn) 21 45.50 6.7X
 S.D. = 0.7 on 15 of 19 obs.

% APR 12, 1991 23h 05m 09.33±1.12s
 47.533 N ±20.7km 5.947 E ±15.0km
 DEPTH = 10.0km (geophysicist)

FRANCE (538)
 ML 2.2 (LDG).

HAU 0.54 30 Pg 05 20.00 0.5
 Sg 05 28.60

BSF 0.64 62 Pg 05 21.90 -0.4
 Sg 05 30.00

LOR 1.44 260 Pg 05 34.80 -0.7
 Sg 05 54.20

LBF 1.45 248 Pg 05 35.20 -0.4
 Sg 05 53.60

SMF 1.69 239 Pg 05 40.20 1.1
 Sg 06 00.20

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

APR 13, 1991 00h 59m 37.25±0.27s
 5.728 S ±4.8km 77.135 W ±6.8km

DEPTH = 27.3km (4 depth phases)
 4.9mb (25 obs.) 4.4msz (4 obs.)

NORTHERN PERU (111)

NNA 6.23 177 iPc 01 09.50 -0.3
 0.6s 20.00nm 5.1mb

PT10 6.31 179 iPc 01 12.50 1.5
 iS 02 15.50

ARE 12.02 153 eP 02 31.00 0.9
 ZOBO 13.70 141 P 02 50.20 -2.6

Z 20s 3.45um
 i 03 03.00
 S 04 14.00
 LR 08 12.00

LPB 13.92 141 P 02 54.20 -1.2
 Z 19s 6.25um

i 03 06.20
 S 06 06.00
 LR 08 55.00

CNCB 14.20 142 P 02 58.00 -1.3
 i 03 08.50

CCH 15.80 138 P 03 25.10 5.1X
 SDV 15.90 24 eP 03 21.70 0.6

TOV 17.06 25 eP 03 34.00 -1.7
 VAO 33.77 124 eP 06 17.30 -1.9

PDCR 38.10 103 eP 06 54.80 -1.1
 JSC 39.98 355 P 07 11.50 0.2

RSCP 41.87 350 P 07 24.50 -2.3
 OLY 43.17 343 P 07 36.00 -1.4

CVL 43.50 358 P 07 41.50 1.5
 FVM 45.21 345 P 07 53.00 -0.9

ALO 48.99 328 ePc 08 23.80 0.0
 0.9s 10.50nm 4.9mb

ANMO 48.99 328 P 08 24.00 0.2
 pP 08 32.40 28km

GOL 52.17 332 P 08 47.30 -0.8
 pP 08 55.20 26km

GLA 52.59 320 eP 08 52.00 0.9
 MSU 54.71 327 P 09 06.50 -0.3

RSSD 55.23 337 P 09 10.00 -0.5
 pP 09 18.20 27km

GSC 55.29 321 eP 09 12.00 1.1
 MWC 55.42 319 eP 09 01.00 -11.0X

DAU 55.60 329 P 09 12.50 -0.8
 CLC 56.11 321 eP 09 17.00 0.2

8W06 56.54 332 P 09 18.00 -2.0
 0.8s 5.00nm 4.6mb

CMB 59.24 321 eP 09 48.30 9.6X
 ORV 60.85 322 eP 09 50.50 0.8

SCH 60.94 7 eP 09 49.00 -1.1
 LBFM 62.17 323 P 09 58.10 -0.8

SES 63.10 336 ePc 10 04.40 -0.3
 FFC 63.70 344 iPc 10 07.60 -0.9

1.2s 21.00nm 5.1mb
 NEW 64.17 332 P 10 11.00 -0.7

0.8s 8.85nm 4.9mb
 LON 65.51 328 P 10 19.50 -0.9

PNT 66.09 331 eP 10 24.00 0.0
 0.7s 10.00nm 5.0mb

FRB 69.59 4 eP 10 45.00 -0.5
 LKO 72.88 78 Pc 11 06.46 0.1

0.6s 8.50nm 5.0mb
 LIC 72.95 82 P 11 06.92 0.2

1.0s 6.00nm 4.6mb
 Z 20s 0.55um 4.8msz

TIC 73.01 81 P 11 07.38 0.2
 1.0s 14.50nm 5.0mb

KIC 73.25 82 Pc 11 08.92 0.4
 0.8s 11.00nm 5.0mb

YKA 73.81 343 eP 11 09.50 -1.3
 0.6s 3.10nm 4.5mb

INK 83.52 342 ePc 12 04.00 0.3
 BTH 84.42 46 ePd 12 10.00 1.3

pP 12 19.00 28km
 EPF 84.79 46 eP 12 12.10 1.5

1.2s 13.40nm 5.0mb
 LPF 85.01 41 eP 12 12.20 0.7

0.9s 6.55nm 4.9mb
 GRR 85.21 41 eP 12 21.34 8.8X

MFF 85.26 42 eP 12 13.70 0.9
 0.9s 8.20nm 5.0mb

LFF 85.49 44 eP 12 15.00 1.0
 0.9s 13.10nm 5.2mb

FLN 85.55 40 eP 12 15.30 1.1
 0.8s 8.05nm 5.0mb

Z 19s 0.13um 4.3msz
 LDF 85.74 40 eP 12 16.10 0.9

0.9s 9.85nm 5.0mb
 LPO 85.74 44 eP 12 16.20 0.9

CAF 86.41 44 eP 12 19.40 0.8
 MAF 87.01 43 eP 12 21.60 0.1

BGF 87.27 43 eP 12 22.90 0.2
 1.0s 10.00nm 5.0mb

AVF 87.65 43 eP 12 24.50 0.0
 SSF 87.81 42 eP 12 24.90 -0.4

0.8s 3.35nm 4.7mb
 SMF 87.96 43 eP 12 26.20 0.2

0.8s 6.05nm 5.0mb
 LOR 88.08 42 eP 12 26.30 -0.3

0.7s 3.30nm 4.8mb
 Z 21s 0.20um 4.5msz

PDB 88.44 330 P 12 27.70 -0.3
 LMR 89.28 46 eP 12 33.00 0.6

FRF 89.41 46 eP 12 33.50 0.5
 0.7s 5.50nm 5.0mb

LPL 89.76 44 eP 12 36.00 1.1
 0.7s 3.30nm 4.7mb

LPG 89.77 44 eP 12 36.10 1.1
 0.7s 2.20nm 4.5mb

IMA 89.77 337 P 12 34.50 0.1
 HAU 89.86 42 eP 12 35.00 -0.1

Z 22s 0.13um 4.3msz
 SBF 90.02 46 eP 12 36.20 0.3

BSF 90.13 42 eP 12 36.20 -0.2
 CDF 90.54 42 eP 12 38.40 0.1

0.7s 4.40nm 4.9mb
 WRA 139.89 230 PKP 18 59.00 -6.7X

1.0s 2.40nm 1.2
 GTA 146.36 4 PKP 19 17.70 1.2

KNA 146.64 230 ePKP 19 18.80 1.5
 TIY 146.99 346 ePKP 19 19.00 1.5

MBL 148.52 211 ePKP 19 23.70 3.4X
 0.7s 14.00nm 4.5X

LZH 149.77 358 ePKP 19 26.50 4.5X
 NJ2 149.84 332 ePKP 19 25.80 3.8X

XAN 151.27 349 PKP 19 30.30 6.1X
 HYB 153.54 62 ePKP 19 28.50 0.7

S.D. = 1.0 on 69 of 78 obs.

* APR 13, 1991 01h 09m 35.17±0.86s
 24.005 N ±9.7km 122.752 E ±10.7km

DEPTH = 10.0km (geophysicist)
 4.3mb (6 obs.)

TAIWAN REGION (243)
 ML 4.0 (BJI).

TWC 1.02 306 iPd 09 55.90 1.5
 eS 10 09.60

TWD 1.06 274 iPc 09 55.00 -0.1
 TWF1 1.48 244 ePc 10 01.50 -0.4

eS 10 18.60
 TWZ 1.52 316 ePc 10 05.20 2.7

OZH 3.90 285 iPnc 10 34.90 -1.6
 SSE 7.20 349 Pd 11 24.00 1.0

0.7s 46.00nm 5.8mb X
 Z 16s 0.60um

N 13s 0.40um
 NJ2 8.72 338 Pd 11 42.50 -1.8

Z 12s 0.30um
 N 10s 0.40um

eS 13 24.00
 WHN 9.91 313 eP 12 04.50 3.8X

GTA 24.73 314 eP 14 58.00 -0.1
 1.0s 10.00nm 4.4mb

SP 15 09.00
 WB2 45.12 165 iPc 17 54.10 0.4

0.8s 6.00nm 4.6mb
 e 18 57.90

GAR 46.53 302 eP 18 04.50 -0.3
 ASPA 48.61 166 eP 18 22.60 1.5

0.6s 5.00nm 4.7mb
 HFS 78.42 331 eP 21 36.20 -1.1

0.5s 0.80nm 4.0mb
 NB2 79.05 333 P 21 39.70 -1.2

0.8s 1.80nm 4.1mb
 YKA 82.57 23 eP 21 58.90 -0.5

0.7s 1.40nm 4.2mb
 S.D. = 1.4 on 14 of 15 obs.

? APR 13, 1991 01h 14m 08.69±1.69s
 17.400 S ±23.0km 166.979 E ±11.2km

DEPTH = 33.0km (normal)
 4.3mb (1 obs.)

VANUATU ISLANDS (186)

BKM 1.24 103 iP 14 30.60 0.9
 iS 14 47.00

PVC 1.32 105 iPc 14 30.00 -0.9
 iS 14 45.50

DZM 4.67 186 iPd 15 18.90 0.0
 iS 16 11.10

STK 27.12 233 eP 20 07.80 17.1X
 0.5s 2.80nm

ASPA 31.55 253 iPd 20 30.40 0.0
 1.0s 5.00nm 4.3mb

S.D. = 1.2 on 4 of 5 obs.

? APR 13, 1991 01h 25m 20.48±1.48s
 32.855 S ±13.9km 178.614 W ±27.1km

DEPTH = 33.0km (normal)
 4.9mb (3 obs.)

SOUTH OF KERMADEC ISLANDS (179)

HBZ 5.36 207 eP 26 40.70 0.4
 PUZ 5.80 205 eP 26 46.00 -0.5

eS 27 55.70
 ASPA 42.52 270 iPc 33 15.20 0.5

0.5s 11.10nm 4.8mb
 WB2 43.72 275 eP 33 24.30 -0.1

0.4s 12.10nm 5.0mb
 WRA 43.73 275 P 33 24.00 -0.5

0.5s 8.80nm 4.8mb
 KAF 146.66 339 iPKP 44 56.20 -1.7

NUR 148.41 338 iPKP 45 02.40 1.7
 0.8s 19.10nm

i 45 14.80
 NB2 151.08 350 PKP 45 08.50 3.6X

0.8s 2.50nm
 HFS 151.53 347 ePKP 45 09.20 3.7X

1.2s 7.50nm
 S.D. = 1.3 on 7 of 9 obs.

APR 13, 1991 01h 37m 44.91±1.78s
 47.840 N ±7.4km 153.066 E ±5.1km

DEPTH = 117.6 ±16.7 km
 4.8mb (64 obs.)

KURIL ISLANDS (221)

SMY 14.29 62 P 41 04.00 1.2
 MDJ 16.54 267 Pd 41 22.00 -9.0X

1.0s 70.00nm 4.9mb
 YAK 19.37 326 eP 42 03.00 -0.5

eP 42 30.00 153kmX
 ePP 43 09.00

ePPP 43 23.00
 eS 46 51.00

eSS 47 24.00
 e 54 21.00

i 54 57.00
 CN2 19.62 268 eP 41 59.40 -6.8X

1.0s 30.00nm 4.6mb
 Z 10s 1.00um 4.7msz

SNY 21.68 265 eP 42 22.40 -4.5X
 1.0s 30.00nm 4.6mb

Z 23s 0.60um 3.9mszX

NDI	0.8s	7.70nm	4.8mb	LOR	83.55 335 eP	50 50.20	-0.4	eSn	54 03.50		
	56.28	279 iPd	48 06.00	1.2	0.7s	8.80nm	4.9mb	iP	53 41.30	-0.5	
	0.8s	29.85nm	5.4mb	LBF	83.76 335 eP	50 51.40	-0.3	i	53 44.30		
PGC	59.04	51 eP	48 24.00	0.1	0.9s	10.65nm	4.9mb	iS	54 03.70		
GMW	60.01	51 P	48 30.50	-0.1	83.84 335 eP	50 51.70	-0.3	Pn	53 41.47	-0.9	
SOD	60.28	337 iP	48 29.70	-2.5	0.6s	4.95nm	4.7mb	iPc	53 47.49	-0.1	
BMW	60.35	53 P	48 33.00	0.0	GRR	83.86 339 eP	50 52.30	0.2	ePg	54 06.20	8.0X
PNT	60.79	48 iPc	48 35.50	-0.4	0.6s	7.20nm	4.9mb	eSg	54 45.60		
	0.6s	22.00nm	5.5mb	SMF	84.11 335 eP	50 53.40	0.0	iPd	54 26.60	1.2	
LON	61.01	52 P	48 37.30	-0.2	0.9s	18.00nm	5.1mb	e	54 45.50		
SHW	61.08	53 P	48 38.70	0.6	FIR	84.11 329 i(P)	50 55.00	1.6			
EDM	61.78	42 ePc	48 42.00	-0.6	AVF	84.13 335 eP	50 53.40	-0.1			
VGB	62.30	52 P	48 46.00	-0.2	0.7s	11.00nm	5.0mb				
DPW	62.39	49 P	48 46.10	-0.6	LPL	84.19 333 eP	50 54.60	0.5			
OUE	62.65	287 eP	48 47.70	-1.2	0.7s	7.70nm	4.8mb				
NEW	62.75	48 P	48 48.60	-0.5	LPG	84.20 333 eP	50 54.60	0.3			
LBFM	64.08	57 P	48 58.30	0.2	0.7s	9.90nm	5.0mb				
KAF	64.09	333 iPKP	48 56.20	-1.4	LPF	84.24 339 eP	50 54.40	0.4			
WDC	64.13	58 iPc	48 58.30	0.1	0.8s	8.05nm	4.8mb				
WRA	64.32	193 P	48 59.00	-0.5	BGF	84.49 336 eP	50 56.10	0.8			
	0.8s	25.30nm	5.2mb	MAF	0.6s	5.40nm	4.8mb				
SES	64.63	44 iPc	49 01.00	-0.4	84.88 336 eP	50 58.00	0.7				
	0.5s	19.00nm	5.3mb	TCF	0.6s	17.15nm	5.3mb				
ORV	65.39	58 ePc	49 05.80	-0.5	84.92 336 eP	50 57.70	0.2				
NUR	65.81	333 iPKP	49 06.40	-2.2	0.6s	4.50nm	4.7mb				
BRK	65.93	60 eP	49 10.10	0.3	LSF	85.16 336 eP	50 58.80	0.2			
FFC	66.03	36 iPc	49 10.00	-0.2	0.8s	13.45nm	5.0mb				
	0.8s	26.00nm	5.3mb	MFF	85.31 338 eP	50 59.80	0.4				
LRM	66.77	48 iPc	49 15.40	0.0	0.7s	12.15nm	5.1mb				
CMB	67.00	59 eP	49 16.70	0.0	SBF	85.41 332 eP	50 59.70	-0.3			
LLA	67.53	60 eP	49 17.70	-2.3	0.6s	9.00nm	5.0mb				
KOD	67.80	263 eP	49 22.20	-0.1	PGF	86.01 330 eP	51 02.60	-0.5			
ASPA	68.04	192 iPc	49 23.60	0.4	0.6s	5.40nm	4.8mb				
	0.8s	39.70nm	5.4mb	RJF	86.02 336 eP	51 03.40	0.4				
FRI	68.07	59 eP	49 23.40	0.1	0.8s	8.05nm	4.8mb				
UPP	68.56	335 iP	49 25.00	-1.0	LRG	86.14 332 eP	51 03.80	0.3			
TNP	68.92	57 P	49 29.00	0.1	0.7s	8.80nm	4.9mb				
		pP	49 46.40	64km	LMR	86.20 332 eP	51 03.90	0.1			
NB2	69.43	339 P	49 29.40	-2.0	0.7s	8.80nm	4.9mb				
	0.7s	5.20nm	4.6mb	CAF	86.20 335 eP	51 05.00					

Z 25s 0.26um 4.9mszx	ENR 0.23 356 P 16 59.54 0.1	0.9s 2.60nm
GKN 151.65 36 PKP 55 27.00 8.1X	S 17 02.72	HFS 151.45 347 ePKP 04 07.20 4.7X
KKN 152.18 36 PKP 55 28.40 8.2X	Pg 16 59.29 -0.3	0.8s 1.80nm
S.D. = 1.1 on 19 of 27 obs.	Sg 17 03.04	S.D. = 1.0 on 6 of 9 obs.
APR 13, 1991 04h 46m 26.59±0.49s	STV 0.26 341 P 17 00.06 0.1	
40.653 N ± 4.3km 23.096 E ± 3.8km	S 17 03.64	% APR 13, 1991 07h 25m 13.75±0.89s
DEPTH = 10.0km (geophysicist)	P 17 01.70 0.3	39.113 N ± 7.8km 27.586 E ± 9.0km
GREECE (364)	S 17 06.00	DEPTH = 10.0km (geophysicist)
MD 2.3 (THE). ML 1.8 (SKO).	ROB 0.43 46 P 17 03.13 0.0	TURKEY (366)
THE 0.10 258 iPc 46 29.38 0.1	S 27 08.57	MD 2.6 (ISK).
eS 46 30.96	PZZ 0.56 334 P 17 05.49 -0.2	
SOH 0.26 49 iPd 46 32.44 0.4	S 17 12.98	IZM 0.76 200 iPg 25 28.60 0.0
iS 46 36.50	FIN 0.59 69 P 17 05.39 -0.7	iSg 25 39.60
KNT 0.53 344 iPd 46 37.12 -0.2	S 17 12.67	DST 0.95 58 ePn 25 32.10 0.3
eS 46 44.48	FRF 0.72 233 Pg 17 08.20 -0.1	EZN 1.21 307 ePn 25 36.00 -0.2
SRS 0.60 39 iPd 46 38.48 -0.2	Sg 17 17.50	KCT 1.28 27 ePn 25 36.80 -0.7
iS 46 46.12	LMR 0.95 226 Pg 17 12.20 0.1	KGT 1.35 351 iPn 25 39.30 0.7
GRG 0.61 300 ePd 46 38.36 -0.5	Sg 17 21.60	S.D. = 0.7 on 5 of 5 obs.
eS 46 52.52	S.D. = 0.3 on 15 of 15 obs.	
OUR 0.75 115 ePc 46 41.36 0.2	& APR 13, 1991 06h 13m 28.40s	APR 13, 1991 07h 46m 49.02±0.11s
eS 46 51.04	59.728 N 138.919 W	20.116 S ± 3.4km 169.055 E ± 3.3km
VAY 0.78 329 iPg 46 41.60 -0.1	DEPTH = 10.0km (geophysicist)	DEPTH = 32.2km (10 depth phases)
iSg 46 52.70	SOUTHEASTERN ALASKA (19)	5.8mb (55 obs.) 5.4Msz (21 obs.)
PAIG 0.85 148 ePd 46 42.36 -0.6	<PGC>. ML 4.0 (PGC), 3.3 (AEIC).	VANUATU ISLANDS (186)
MMB 1.05 27 iPgc 46 46.00 -0.4		Ms 5.6 (BRK).
iSg 47 00.00	PNL 0.25 256 iP 13 33.53 -0.2	CENTROID, MOMENT TENSOR (HRV)
KKB 1.21 360 iPgc 46 49.00 -0.2	eS 13 36.79	Data Used: GDSN
Sg 47 06.00	YKU 0.45 247 iP 13 37.22 -0.3	L.P.B.: 18S, 45C
FNA 1.31 276 ePc 46 51.76 0.8	HYT 1.31 32 Pnc 13 53.70 1.0	Centroid Location:
RZN 1.60 49 iP 46 56.00 0.8	PLBC 1.33 101 Pnd 13 51.60 -1.3	Origin Time 07:46:59.1 0.5
S.D. = 0.5 on 12 of 12 obs.	CTGM 1.73 317 eP 13 58.87 0.1	Lat 19.83S 0.05 Lon 168.69E 0.03
APR 13, 1991 04h 58m 31.77±1.23s	eS 14 21.82	Dep 28.0 BDY Half-duration 3.0
24.440 N ± 17.7km 91.345 E ± 10.8km	BALM 2.15 309 iP 14 04.34 -0.5	Moment Tensor: Scole 10+17 Nm
DEPTH = 33.0km (normal)	eS 14 31.05	Mrr= 5.23 0.10 Mtt= 0.27 0.17
4.0mb (2 obs.)	WHC 2.16 60 Pnc 14 05.20 0.3	Mff=-5.50 0.18 Mrt= 0.97 0.25
INDIA-BANGLADESH BORDER REGION (315)	Pg 14 09.10	Mrf=-1.99 0.33 Mtf= 1.63 0.10
Felt in the Tezpur area, India.	Sg 14 33.00	Principal Axes:
SHL 1.22 23 iP 58 53.60 0.8	TGL 2.21 300 eP 14 04.58 -1.1	T Vol= 5.67 Plg=78 Azm= 50
eS 59 05.00	CROM 2.34 298 iP 14 06.49 -1.3	N 0.67 5 164
GUN 6.00 306 P 59 59.98 -1.0	eS 14 34.78	P -6.34 11 255
PKI 6.18 302 P 00 04.58 1.0	GLB 2.96 308 iP 14 15.36 -1.0	Best Double Couple: Mo=6.0+10+17
KKN 6.39 303 P 00 06.30 0.0	SIT 3.28 143 eP 14 19.40 -1.4	NP1: Strike=351 Dip=35 Slip= 98
DMN 6.44 301 P 00 08.14 1.1	MID 3.79 269 eP 14 28.73 0.7	NP2: 160 56 84
GKN 6.99 302 P 00 14.04 -0.6	KLU 3.88 300 eP 14 28.21 -1.2	PVC 2.47 343 iPc 47 31.50 3.6X
WRA 60.81 133 P 08 44.00 0.7	VLZ 3.93 294 eP 14 28.25 -1.8	iS 48 02.30
0.7s 1.80nm 4.3mb	TZL 3.94 309 eP 14 30.20 0.1	BKM 2.55 342 iPc 47 33.40 4.3X
YKA 90.92 12 eP 11 31.30 -2.0	VZW 4.02 293 eP 14 30.23 -1.1	iS 48 07.50
0.8s 0.30nm 3.7mb	GLI 4.23 289 eP 14 31.19 -3.1	DZM 3.12 231 iPd 47 36.00 -1.2
S.D. = 1.3 on 8 of 8 obs.	SDG 4.27 314 eP 14 34.14 -0.7	iS 48 10.60
APR 13, 1991 05h 01m 26.51±7.14s	TOA 4.27 307 eP 14 34.30 -0.6	NDF 8.28 75 eP 48 52.20 2.3
44.485 N ± 12.0km 7.069 E ± 72.8km	DWY 4.35 357 Pn 14 35.50 -0.5	SGE 8.77 75 ePc 49 02.00 5.3X
DEPTH = 10.0km (geophysicist)	MTU 4.41 277 iP 14 34.03 -2.9	SVA 9.11 79 ePc 49 02.70 1.4
NORTHERN ITALY (545)	KNIM 4.47 282 eP 14 34.05 -3.6	VUN 9.14 78 ePd 49 05.10 3.3X
ML 1.3 (GEN).	LTI 4.51 278 iP 14 35.05 -3.3	MBU 9.69 73 eP 49 14.10 4.7X
PZZ 0.03 49 P 01 27.90 -0.8	PAX 4.53 319 eP 14 38.66 0.0	HNR 13.79 319 eP 50 10.00 5.4X
S 01 29.38	SCM 4.63 301 eP 14 38.64 -1.4	SVO 14.09 319 eP 50 13.00 4.4X
STV 0.30 143 P 01 32.35 -0.5	PMR 5.36 295 eP 14 49.00 -1.3	BRS 16.56 241 iPc 50 42.40 1.9
S 01 36.30	PDB 7.71 277 eP 15 20.20 -3.2	i(pP) 50 52.90
ENR 0.36 136 P 01 33.89 -0.1	INK 8.93 13 P 15 41.00 0.8	i(PP) 52 10.00
S 01 38.41	0.6s 3.20nm 4.8mb X	i(S) 54 03.00
BHB 0.38 21 P 01 34.05 -0.3	IMA 9.24 320 eP 15 42.90 -1.8	COO 18.66 233 eP 51 10.00 3.3X
S 01 38.66	YKA 12.05 66 eP 16 19.70 -3.2	HBZ 19.19 157 eP 51 13.90 1.0
S.D. = 0.5 on 4 of 4 obs.	0.5s 1.50nm 4.5mb	0.4s 34.00nm 4.9mb
APR 13, 1991 05h 16m 54.30±0.47s	30 obs. associated	PUZ 19.60 158 P 51 17.50 -0.1
44.000 N ± 3.7km 7.441 E ± 3.0km	? APR 13, 1991 06h 44m 17.62±1.90s	RMO 19.68 247 iPd 51 19.50 0.9
DEPTH = 12.4 ± 5.2 km	32.768 S ± 13.0km 178.561 W ± 31.0km	1.0s 518.00nm 5.8mb
NORTHERN ITALY (545)	DEPTH = 33.0km (normal)	i 51 30.00 46kmX
ML 2.1 (LDG), 1.8 (GEN).	4.8mb (3 obs.)	CNZ 19.83 165 eP 51 22.00 1.9
AUTN 0.01 248 Pg 16 56.74 -0.1	SOUTH OF KERMADEC ISLANDS (179)	NOZ 20.01 159 P 51 21.60 -0.2
Sg 16 58.53	HBZ 5.46 207 eP 45 39.40 0.6	RIV 20.95 226 eP 51 35.00 3.3X
SAOF 0.08 99 Pg 16 57.28 0.1	PUZ 5.90 205 eP 45 44.40 -0.6	Z 19s 7.78um 5.1Msz
Sg 16 59.03	eS 46 54.90	MNG 21.16 166 P 51 33.60 -0.2
SBF 0.14 182 Pg 16 57.80 -0.1	42.56 270 iPc 52 11.00 -1.2	0.8s 103.00nm 5.3mb
Sg 17 00.20	0.6s 5.80nm 4.5mb	KIW 21.28 168 P 51 35.20 0.3
AURF 0.14 216 Pg 16 57.82 -0.1	WBZ 43.75 275 eP 52 22.80 1.0	PGZ 21.35 165 P 51 35.00 -0.6
Sg 17 00.18	0.3s 9.80nm 5.1mb	0.8s 213.00nm 5.6mb
TOUF 0.14 276 Pg 16 58.01 0.0	WRA 43.76 275 P 52 22.00 0.1	CTA 21.41 266 iPd 51 38.10 1.7
	0.4s 6.80nm 4.8mb	0.8s 126.87nm 5.4mb
	KAF 146.60 339 iPKP 03 54.90 0.0	Z 22s 14.63um 5.3Msz
	0.5s 1.90nm	TCW 21.49 169 eP 51 38.10 1.0
	NUR 148.35 338 ePKP 04 00.70 3.0X	CAW 21.54 168 eP 51 37.90 0.3
	NBZ 151.01 350 PKP 04 06.80 4.9X	MRW 21.59 168 eP 51 38.50 0.5
		WEL 21.66 168 P 51 39.00 0.3
		S 55 38.00

13d 07h

WDW	21.68	168	eP	51	39.20	0.2		1.5s	150.00nm	5.9mb	CHG	78.86	295	iPc	58	52.60	1.5			
THZ	21.83	172	P	51	42.00	1.5	Z 20s	1.00um		5.0msz		1.2s	85.16nm				5.6mb			
KHZ	22.55	171	eP	51	46.70	-0.9	E 16s	0.80um			CD2	80.63	308	eP	58	59.00	-1.4			
LTZ	22.76	174	P	51	51.00	1.3		PP	58 00.70			1.4s	200.00nm				5.9mb			
RAB	22.83	312	eP	51	52.00	1.4		PcP	58 15.00				ePP	59	10.00					
			iS	56	04.00			S	06 50.00		HHC	80.77	320	Pc	59	02.40	1.4			
CNB	23.02	225	eP	51	54.00	1.6		SS	07 00.00			1.4s	300.00nm				6.1mb			
			i	52	05.20	44kmX	GZH	69.25	306	iPc	57	56.00	0.7				5.4mszX			
QLP	23.66	250	iPd	52	00.70	2.2	Z 24s	1.40um		5.1mszX		Z 24s	2.00um		59	12.00				
CMS	23.73	237	iPd	52	02.70	3.5X	OIZ	69.86	300	P	58 00.00	0.9								
			i	52	09.80	25kmX		eS	07 10.00		BTO	81.57	319	P	59	06.50	1.3			
MSZ	24.50	182	eP	52	08.50	2.0	SPA	70.01	180	iPc	57	58.10	-1.3							
LAT	25.24	299	eP	52	15.30	1.4	1.0s	160.00nm	6.0mb		N 20s	0.20um								
TOO	26.87	225	eP	52	29.00	0.1		i	58 29.40	126kmX	E 20s	0.90um								
			i	52	37.80	31km						PP	59	15.00						
OIS	27.60	264	iPd	52	36.00	0.4	NJ2	70.72	316	iPc	58	04.00	0.0							
MNDI	28.30	296	eP	52	46.00	3.8X	1.2s	100.00nm	5.8mb	LZH	83.18	312	iPc	59	15.00	1.3				
BFD	28.67	228	eP	52	46.00	0.9	Z 22s	0.60um	4.8msz		1.6s	380.00nm					6.3mb			
ADE	30.56	235	e(P)	53	03.00	0.9		PP	58 14.50			PP	59	25.50						
	1.1s	156.96nm						S	07 14.00			SP	59	30.00						
WB2	32.57	264	eP	53	12.20	-7.6X	IPM	71.13	282	ePc	58	07.00	0.1							
	2.0s	2.70nm						0.9s	138.50nm	6.0mb										
			i	53	19.20	24kmX	PSI	72.36	280	ePc	58	15.50	1.3	AIA	85.77	160	eP	59	26.60	0.6
			iPcP	56	05.50		SNG	72.53	285	eP	58	15.90	0.7	SVW	85.78	16	ePd	59	27.40	1.3
			eS	58	03.10			e	08 32.10						1.2s	117.90nm			6.0mb	
WRA	32.58	264	P	53	36.00	16.2X	ADK	72.77	9	P	58	14.80	-1.0	PCC	86.22	48	eP	59	29.50	0.8
	1.3s	26.80nm					1.2s	121.21nm	5.8mb					PRS	86.38	49	ePc	59	30.30	0.8
ASPA	32.76	257	iPc	53	20.60	-0.8		pP	58 24.00	30km	BRK	86.48	48	eP	59	30.50	0.6			
	0.5s	137.70nm					WHN	72.81	313	Pc	58	17.40	0.9	BKS	86.50	48	iPc	59	30.60	0.5
	Z 20s	14.70um					1.5s	300.00nm	6.1mb		Z 20s	2.30um						5.6msz	33km	
			iS	58	33.20		Z 24s	1.00um	5.0mszX			i	59	41.20						
FORR	38.30	245	iPd	54	08.30	-0.1		S	07 41.00			ePS	11	22.00						
PAE	39.15	94	iP	54	15.40	-0.3	DL2	73.61	323	Pc	58	23.00	2.0		e	21	44.00			
	1.2s	45.00nm					1.2s	600.00nm	6.5mb			eLR	28	06.00						
PPT	39.17	93	iP	54	15.80	-0.1		PP	58 32.00		SAO	86.53	49	eP	59	30.60	0.4			
	1.2s	45.00nm						S	07 47.00		SYP	86.55	51	eP	59	32.00	1.4			
PPR	39.31	93	iP	54	16.80	-0.2	MDJ	73.81	332	Pc	58	22.50	0.5	MHC	86.66	48	ePc	59	31.60	0.6
	1.2s	30.00nm					1.4s	330.00nm	6.1mb			e	59	42.60				35km		
WARB	39.33	253	iPd	54	17.80	0.6		2.00um	5.3mszX		ANM	86.69	11	eP	59	32.00	1.6			
GUA	41.02	323	eP	54	33.00	1.9		PP	58 32.50		ARN	86.74	48	P	59	32.00	0.7			
PMO	41.27	90	iP	54	33.40	0.2		S	07 56.00		FMC	86.75	44	ePc	59	31.80	0.5			
	1.2s	50.00nm						SS	08 13.00		BCH	86.78	51	P	59	32.00	0.4			
VAH	41.47	90	iP	54	34.70	-0.1		SKS	08 24.00		PRI	86.79	50	eP	59	32.80	1.1			
	1.2s	45.00nm					TIA	74.48	319	Pc	58	26.20	0.0	ABL	87.26	51	P	59	34.20	0.1
TPT	41.54	90	iP	54	35.40	0.0	1.5s	400.00nm	6.2mb		WDC	87.60	45	iPc	59	35.80	0.5			
	1.2s	55.00nm					Z 22s	1.00um	5.1msz			e	59	45.50				30km		
RUV	41.71	90	iP	54	36.60	-0.2		PP	58 35.00		GTA	87.60	314	iPc	59	37.00	1.5			
	1.2s	60.00nm						S	07 57.00			1.5s	150.00nm				6.0mb			
COOL	44.26	246	eP	54	55.00	-2.5	SNY	74.61	326	iPc	58	27.00	0.2		Z 26s	1.30um			5.2mszX	
MBL	45.93	260	iPc	55	10.90	0.1	1.8s	300.00nm	6.0mb			PP	59	47.20						
	0.8s	69.00nm					Z 22s	1.30um	5.2msz			SKS	10	00.00						
MEKA	46.59	252	iPc	55	16.10	0.1		PcP	58 36.00		SHL	87.61	298	iP	59	36.50	0.6			
KLB	47.18	245	eP	55	19.50	-1.1		S	08 03.00											
NWAO	47.66	243	eP	55	24.00	-0.4	CN2	75.11	329	iPc	58	29.40	-0.2	YAK	87.63	343	iP	59	35.10	0.2
	0.8s	78.00nm					1.0s	100.00nm	5.8mb											
RKG	47.90	242	iPc	55	26.20	-0.1	Z 24s	2.50um	5.4mszX			eP	59	57.00				80kmX		
	0.3s	15.00nm					N 20s	0.80um				ePPP	03	13.00						
BAL	48.08	247	eP	55	25.00	-2.7	E 20s	1.00um				ePPP	05	15.00						
MUN	48.51	245	eP	55	30.50	-0.5		ePP	58 38.50			iSKKS	09	57.00						
	Z 20s	7.40um						eS	08 08.00			iS	10	15.00						
DAV	50.59	298	eP	55	47.50	0.3	GYA	76.18	305	iPc	58	37.00	0.8		eS	11	11.00			
TRT	55.90	274	ePd	56	23.10	-3.4X	1.6s	100.00nm	5.6mb		PAS	87.72	52	eP	59	37.00	1.0			
SBA	57.79	181	iPc-	56	39.60	0.6		PcP	58 47.00		ORV	87.81	46	ePc	59	36.70	0.4			
			iS	04	40.40			PP	01 29.00		MWC	87.84	52	eP	59	37.00	0.2			
BAG	59.87	304	eP	56	53.00	-1.5		S	08 18.00		CMB	87.87	48	ePc	59	37.00	0.3			
KAKJ	62.33	334	P	57	10.10	-0.5	NST	76.48	292	eP	58	42.80	4.9X		e	59	47.30		32km	
CHJJ	62.64	33	P	57	12.40	-0.6	BSI	76.76	281	ePd	58	40.00	0.5		e	11	36.00			
MAT	63.44	333	eP	57	17.00	-1.0	1.0s	360.50nm	6.3mb						e	27	24.00			
	1.0s	54.00nm																		
	Z 20s	0.71um					KHT	77.45	291	iPc	58	45.10	1.8	FRI	87.87	49	iPc	59	36.90	0.3
			eS	05	47.00		BJI	77.51	321	ePc	58	44.00	0.9		e	59	47.50		33km	
TSRJ	63.61	330	P	57	19.10	0.0	2.0s	600.00nm	6.3mb		NVL	87.97	187	iP	59	36.00	-0.6			
MTMJ	63.66	332	P	57	19.20	-0.3	Z 28s	1.72um	5.2mszX			1.8s	760.00nm				6.7mb			
NIIJ	63.70	334	P	57	19.50	-0.1		PP	58 54.00			Z 20s	2.70um				5.7msz			
YAMJ	64.07	335	eP	57	23.00	0.9		eS	08 34.00			E 20s	1.10um							
OFUJ	64.23	337	eP	57	22.70	-0.4	BDT	78.13	293	eP	58	49.00	2.0		iPcP	59	46.00		56kmX	
SHK	64																			

TOA	89.31	19	ePc	59	45.70	2.6	HRI	136.62	297	ePKP	06	11.00	0.7	ZAG	146.13	325	iPKP	06	26.10	-0.4
SNA	89.61	183	iPd	59	45.00	0.6	JVI	137.06	296	ePKP	06	12.00	0.9				i	06	28.10	
	1.0s	170.00nm			6.3mb		PDCR	137.32	137	ePKP	06	10.60	-1.3				i	06	38.20	
GLA	89.78	55	eP	59	47.00	1.1			e	06	20.80		BHG	146.37	330	ePKP	06	26.70	-0.2	
LSA	89.84	302	P	59	47.40	0.6	RMN	137.77	293	ePKP	06	13.00	0.5				i	06	28.30	
	3.0s	500.00nm			6.3mb		SOB1	138.55	132	ePKP	06	14.10	-0.2	KBA	146.61	329	iPKPc	06	25.40	-2.1
Z	30s	1.60um			5.3MszX		SPC	141.76	327	ePKP	06	13.30	-6.0X		1.0s	104.00nm				
		PP	59	58.00			KDZ	142.51	313	ePKP	06	16.00	-4.6X				i	06	28.20	
BMW	90.05	40	P	59	47.00	0.1	KSP	142.57	331	iPKPd	06	16.00	-4.4X				e	06	38.50	
TNP	90.13	49	P	59	47.50	-0.1		1.2s	43.00nm									09	42.00	
	0.8s	17.65nm			5.4mb				e	09	55.00		ENN	146.64	340	iPKP	06	29.00	1.8	
IMA	90.40	14	ePc	59	47.80	-0.4	PSZ	142.72	325	iPKP	06	16.90	-3.9X		1.1s	225.00nm				
	1.3s	9.50nm			4.9mb		PLD	142.81	314	iPKP	06	17.00	-4.0X				e	06	39.00	
SHW	90.51	40	P	59	50.00	0.9	RZN	142.98	314	iPKPd	06	18.00	-3.6X	VBY	146.72	326	ePKPc	06	26.90	-0.6
GMW	90.84	39	P	59	50.30	-0.1	PGB	142.98	315	iPKPd	06	18.00	-3.4X	LJU	146.74	327	ePKP	06	26.50	-1.0
FBA	90.96	17	ePc	59	49.20	-1.4	BZS	143.07	321	ePKP	06	17.00	-4.3X	MEM	146.75	340	iPKPc	06	26.23	-1.1
	1.1s	20.20nm			5.4mb		BUD	143.46	325	iPKP	06	19.00	-2.9X				ic	06	29.13	
PGC	90.99	38	eP	59	51.50	0.5	VTS	143.59	316	iPKPd	06	20.00	-2.6				i	06	39.70	
LON	91.04	40	P	59	51.00	-0.4	SRO	143.63	326	iPKP	06	19.80	-2.4	IGT	146.92	313	ePKPc	06	30.04	2.0
VGB	91.09	41	P	59	51.50	-0.1	CLL	143.63	335	iPKP	06	18.60	-3.5X	CEY	147.00	327	ePKPc	06	27.00	-1.0
IRK	91.34	326	eP	59	52.10	-0.5		2.1s	280.00nm					VOY	147.08	327	ePKPc	06	27.20	-1.0
		e	00	02.70	33km				i	06	29.20					i	06	29.70		
		e	00	16.90			MMB	143.69	314	iPKPd	06	20.00	-2.6				e	06	40.00	
RMW	91.38	39	P	59	53.00	0.0	PRU	143.97	332	PKPc	06	20.30	-2.4	UCC	147.08	342	PKPc+	06	30.10	2.2
GUN	93.46	298	PKP	00	03.70	0.3		1.5s	145.10nm								i-	06	41.00	
	1.0s	87.00nm			6.1mb		Z	24s	1.70um			5.7MszX	FVI	147.23	329	PKP	06	27.70	-0.5	
PKI	93.73	298	PKP	00	04.88	0.3	N	24s	1.20um				WATA	147.25	331	iPKPc	06	26.70	-1.8	
	1.2s	155.00nm			6.3mb				e	06	31.00			1.5s	339.00nm					
KKN	93.91	298	PKP	00	05.80	0.5			e	06	37.70					i	06	30.40		
	1.2s	139.00nm			6.3mb		SRS	143.98	313	ePKPc	06	20.22	-2.9X			i	06	40.70		
MSU	93.93	50	P	00	05.50	0.4	ZST	144.00	328	iPKP	06	20.80	-2.0	ETA	147.28	355	iPKPc	06	30.10	2.0
DMN	94.00	298	PKP	00	06.54	0.8			i	06	31.40			1.1s	214.00nm					
	1.1s	234.00nm			6.5mb				e	09	36.10		WTTA	147.28	331	iPKPc	06	27.20	-1.4	
GKN	94.52	298	PKP	00	07.96	0.0	KKB	144.00	315	iPKPd	06	21.00	-2.1		1.2s	337.00nm				
	1.1s	128.00nm			6.3mb		OUR	144.04	312	ePKPc	06	21.20	-1.9			i	06	30.60		
KOD	94.93	279	eP	00	11.30	1.0	BEO	144.20	321	iPKP	06	20.50	-2.8			i	06	40.10		
GBA	96.07	282	Pd	00	16.60	1.5			i	06	31.00		RIY	147.29	326	iPKPc	06	30.30	1.9	
	0.9s	19.40nm			5.6mb		UZD	144.24	324	iPKP	06	21.80	-1.5	SNF	147.36	342	iPKP	06	30.76	2.4
HYB	96.29	286	ePc	00	16.20	0.1	SOH	144.27	313	ePKPc	06	21.40	-2.2			i	06	40.60		
	1.2s	42.80nm			5.8mb		VKA	144.34	328	iPKPc	06	21.40	-2.1	TRI	147.36	327	iPKPc	06	30.60	2.1
ALO	96.94	55	eP	00	18.00	-0.9			i	06	46.10		MOTA	147.46	332	iPKPc	06	27.20	-1.6	
	1.0s	4.25nm			4.9mb		EKA	144.35	352	PKP	06	21.00	-2.2		1.1s	300.00nm				
Z	20s	1.10um			5.3Msz			1.5s	104.60nm							i	06	31.00		
ANMO	96.94	55	P	00	18.50	-0.4	PAIG	144.41	311	ePKPd	06	21.20	-2.6			i	06	41.30		
	1.2s	17.58nm			5.5mb		KNT	144.44	314	iPKPc	06	21.60	-2.2	SOTA	147.50	331	ePKP	06	27.50	-1.4
INK	97.43	18	eP	00	19.00	-1.1	VAY	144.59	314	iPKPc	06	22.00	-2.1		0.9s	184.00nm				
		pP	00	29.00	31km			1.3s	179.00nm							i	06	31.10		
WMO	97.68	314	Pc	00	22.50	0.6			i	06	32.00					i	06	34.90		
		PP	04	20.00			THE	144.62	313	iPKPc	06	22.40	-1.6			i	06	41.80		
SES	99.05	40	eP	00	30.00	2.2	WIT	144.62	342	iPKP	06	23.40	-0.3	HVAR	147.51	321	iPKPc	06	30.90	2.1
GOL	99.30	51	P	00	30.00	0.4			e	06	33.50		WLF	147.51	339	iPKPd	06	28.95	0.4	
	Z	18s	0.43um		5.0Msz		MOX	144.70	335	iPKPc	06	22.90	-1.1			ic	06	31.92		
YKA	101.52	27	ePd	00	37.20	-1.5		1.2s	431.00nm							id	06	42.20		
	0.4s	1.00nm			4.8mbX		HOF	144.86	334	iPKPc	06	23.30	-1.0	GWF	147.58	337	PKP	06	31.77	3.0X
CNCB	113.05	119	PKP	05	26.00	-0.2	GRG	144.87	314	ePKPd	06	23.60	-1.0	DOU	147.63	341	iPKP	06	31.60	2.8X
LPB	113.09	119	PKP	05	26.70	0.6	KHC	145.02	332	iPKPc	06	24.00	-0.6			e	06	42.00		
ZOBO	113.21	119	PKPc	05	25.50	-1.0		1.4s	279.00nm					ECB	147.65	355	ePKP	06	31.00	2.3
		SKS	16	08.00			N	24s	0.50um					1.0s	114.00nm					
		LR	40	20.00			E	24s	0.70um				ECP	147.80	355	ePKP	06	31.50	2.6	
MAIO	117.11	301	ePKP	05	29.00	-3.9X			e	06	32.70			0.9s	314.00nm					
		e	16	40.00					e	06	47.00		STR	147.85	336	PKP	06	32.62	3.5X	
GAC	121.81	48	ePKP	05	40.50	-0.8	SKO	145.04	316	iPKP	06	24.50	-0.3	OGA	147.85	331	ePKP	06	29.40	-0.2
FRB	122.02	26	ePKP	05	39.00	-2.2		1.3s	962.00nm				WLS	148.15	337	PKP	06	32.87	3.1X	
VAO	124.58	139	ePKP	05	46.40	-1.1			i	06	35.00		CTI	148.17	330	PKP	06	28.90	-1.1	
		e	05	57.20			LIT	145.17	312	iPKPc	06	24.48	-0.7	CDF	148.18	337	ePKP	06	29.00	-0.9
KEV	125.34	345	iPKP	05	47.00	-0.5	WTS	145.29	341	iPKPc	06	24.20	-0.7	SLE	148.23	335	ePKPd	06	28.60	-1.3
	1.0s	36.00nm						1.4s	540.00nm				FEL	148.34	335	ePKP	06	28.81	-1.4	
		i	05	57.30					e	06	34.00		ECH	148.38	337	PKP	06	33.05	2.9X	
SCH	125.75	36	ePKP	05	47.00	-1.8	WET	145.32	332	ePKP	06	25.00	-0.1	OSS	148.38	332	ePKPd	06	29.80	-0.6
PTZ	126.19	234	iPKPd	05	48.50	-2.4	KMR	145.54	330	iPKP+	06	26.30	0.8	MOF	148.69	336	PKP	06	34.33	3.6X
		i	06	02.80					i	06	36.40		VITF	148.81	338	PKP	06	34.56	3.9X	
SOD	127.12	343	iPKP	05	49.20	-1.8			i	06	45.50		BSF	148.84	337	ePKP	06	30.20	-0.8	
LSZ	127.88	231	iPKPd	05	54.00	-0.1	GRF	145.61	334	ePKPd	06	25.50	-0.1		1.1s	19.55nm				
		i	06	04.00			Z	21s	0.50um			5.3Msz	HAU	148.86	337	ePKP	06	30.20	-0.7	
KMZ	130.79	230	iPKP	06	10.00	10.3X			id	06	36.40			Z	22s	0.80um			5.5Msz	
KAF	130.80	338	ePKP	05	57.20	-0.9	FNA	145.64	314	ePKPd	06	25.00	-0.9	BBS	148.87	335	PKP	06	34.42	3.5X
	0.4s	2.10nm					DBN	145.69	342	iPKP	06	26.00	0.5	LOMF	149.23	336	PKP	06	35.76	4.2X
NUR	132.47	337	iPKP	06	01.00	-0.3			e	09	26.00		RSM	149.26	326	PKP	06	32.20	0.7	
	1.0s	46.00nm					AGG	145.73	311	ePKPc	06	25.48	-0.7	ARV	149.29	325	PKP	06	31.70	0.0
		i	06	12.20			OHR	145.87	315	iPKP	06	25.60	-0.8	TDS	149.55	316	PKP	06		

13d 08h

MGR 149.80 317 PKP 06 36.00 3.5X
 MMK 149.82 333 ePKPd 06 32.50 -0.2
 SDI 149.95 321 PKP 06 36.90 4.1X
 MME 149.98 328 PKP 06 33.00 0.0
 FIR 149.99 327 ePKP 06 37.50 4.9X
 AZI 149.99 322 PKP 06 36.40 3.7X
 DIX 150.03 334 ePKPd 06 32.90 -0.1
 BDI 150.12 328 PKP 06 32.30 -0.7
 ORO 150.16 333 PKP 06 32.50 -0.5
 BOB 150.16 330 PKP 06 32.30 -0.7
 MNS 150.17 323 PKP 06 34.00 0.9
 FLN 150.21 346 ePKP 06 32.50 -0.3

1.3s 36.10nm
 Z 22s 1.17um 5.6msz
 EMS 150.24 335 ePKPd 06 32.90 -0.3
 LDF 150.28 345 ePKP 06 32.50 -0.5
 LOR 150.35 339 ePKP 06 32.70 -0.5

1.5s 26.10nm
 Z 22s 1.77um 5.8msz
 RMP 150.53 322 PKP 06 36.20 2.6
 LBF 150.56 339 ePKP 06 33.00 -0.5
 LSD 150.64 334 PKP 06 39.43 5.5X
 GRR 150.64 346 ePKP 06 33.20 -0.3
 SSF 150.65 340 ePKP 06 33.10 -0.5
 RSL 150.67 334 PKP 06 39.12 5.2X
 PCP 150.75 331 PKP 06 38.20 4.3X
 LPL 150.77 334 ePKP 06 33.90 -0.2
 LPG 150.78 334 ePKP 06 33.80 -0.4
 RSP 150.84 333 PKP 06 38.20 4.1X
 SMF 150.90 339 ePKP 06 33.20 -0.8
 AVF 150.94 340 ePKP 06 33.50 -0.5

1.5s 18.30nm
 CKI 150.96 331 PKP 06 32.80 -1.3
 MAO 150.99 325 PKP 06 37.50 3.3X
 LPF 151.02 346 ePKP 06 34.00 -0.1

1.4s 61.00nm
 BHB 151.09 333 PKP 06 38.31 4.0X
 FIN 151.16 331 PKP 06 39.02 4.5X
 BNI 151.17 334 PKP 06 34.60 0.0
 RRL 151.23 333 PKP 06 40.66 5.8X
 ROB 151.25 331 PKP 06 39.43 4.8X
 BGF 151.31 340 ePKP 06 34.20 -0.4
 DOI 151.36 332 PKP 06 36.50 1.7
 PZZ 151.42 332 PKP 06 39.84 4.8X
 ENR 151.50 332 PKP 06 39.33 4.2X
 STV 151.53 332 PKP 06 39.64 4.5X
 IMI 151.54 331 PKP 06 40.46 5.3X
 MNO 151.55 314 PKP 06 38.50 3.0X
 TCF 151.75 341 ePKP 06 34.80 -0.5

1.7s 51.45nm
 SBF 151.78 331 ePKP 06 35.00 -0.5
 SSB 151.83 336 PKP 06 41.90 6.4X
 PGF 152.02 327 ePKP 06 35.30 -0.6

1.0s 24.00nm
 MFF 152.14 344 ePKP 06 35.70 -0.1
 FRF 152.37 332 ePKP 06 35.80 -0.4

1.5s 31.35nm
 LRG 152.58 332 ePKP 06 36.10 -0.4

1.5s 31.35nm
 Z 22s 0.98um 5.6msz
 LMR 152.61 332 ePKP 06 36.20 -0.4

1.7s 58.80nm
 CDR 152.66 333 ePKPc 06 43.60 7.0X
 e 06 54.20

RJF 152.85 341 ePKP 06 36.80 -0.1
 1.5s 41.80nm
 Z 21s 1.08um 5.6msz

CAF 153.01 339 ePKP 06 37.40 0.3
 1.7s 47.80nm

LFF 153.42 341 ePKP 06 37.80 0.2
 LPO 153.51 340 ePKP 06 38.00 0.2
 EPF 155.26 340 ePKP 06 40.50 0.2
 BTH 155.35 341 PKPc 06 41.00 0.7

epPKP 06 49.00
 EBR 157.17 337 ePKP 06 44.00 1.2
 LIC 165.04 203 PKP 06 51.30 -0.4

Z 20s 1.13um
 KIC 165.06 205 PKP 06 51.08 -0.6
 TIC 165.43 204 PKP 06 51.56 -0.5
 LKO 168.29 207 PKP 06 53.42 -0.7

S.D. = 1.1 on 295 of 356 obs.

? APR 13, 1991 08h 37m 34.82 ± 8.20s
 18.813 N ± 68.2km 66.833 W ± 29.2km
 DEPTH = 33.0km (normal)
 PUERTO RICO REGION (90)

LRS 0.52 181 P 37 48.80 3.1X
 S 38 00.10
 CLLP 0.77 162 P 37 49.80 0.6
 S 38 02.13
 MGP 0.84 197 P 37 50.00 -0.2
 SJG 0.95 137 iP 37 51.90 0.0
 S 38 06.15
 LPR 1.04 119 P 37 53.90 0.7
 S 38 09.90
 CPD 1.16 131 P 37 53.70 -1.2
 S 38 09.90

S.D. = 1.1 on 5 of 6 obs.
 * APR 13, 1991 09h 10m 11.15 ± 0.67s
 31.752 S ± 6.7km 71.295 W ± 13.2km
 DEPTH = 103.8 ± 8.1 km
 4.8mb (1 obs.)

NEAR COAST OF CENTRAL CHILE (135)

JACH 1.10 147 iPc 10 33.50 0.1
 iS 10 53.00
 ROCH 1.24 169 iPc 10 34.70 -0.4
 iS 10 56.60
 IHA 1.30 193 iPd 10 34.00 -1.6
 i(S) 11 02.80
 PEL 1.48 160 iPc 10 38.50 0.7
 i 10 53.00
 LCCH 1.73 188 iPc 10 40.50 -0.4
 iS 11 03.60
 SAN 1.78 163 iPc 10 42.30 0.8
 iS 11 10.00
 TACH 1.92 171 iPc 10 44.00 0.7
 iS 11 12.50
 PCH 1.98 161 iPc 10 45.00 0.8
 i 11 16.00

ZON 2.24 85 iPd 10 46.30 -1.3
 ANT 8.05 6 e(P) 12 09.00 2.0
 CNCB 15.18 12 P 13 41.00 -0.7
 LPB 15.43 12 P 13 44.00 -0.7
 ZOBO 15.68 11 P 13 39.70 -8.4X
 PPD 20.25 66 (P) 14 41.00 0.6
 VAO 23.26 74 eP 15 21.80 11.6X
 LIC 73.47 72 P 21 34.20 -0.1
 TIC 73.72 71 P 21 35.70 -0.1
 KIC 73.78 72 P 21 36.10 0.0
 LKO 74.96 69 P 21 42.72 -0.3
 0.7s 11.50nm 4.8mb
 GBA 146.14 115 PKPc 29 43.00 2.9X
 0.7s 3.90nm
 S.D. = 1.0 on 17 of 20 obs.

% APR 13, 1991 09h 55m 06.28 ± 0.61s
 40.220 N ± 6.5km 28.777 E ± 4.6km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 2.6 (ISK).

KCT 0.32 275 iPg 55 12.80 -0.2
 iSg 55 17.80
 IZI 0.55 77 iPg 55 17.20 -0.1
 YLV 0.57 53 iPg 55 17.80 -0.1
 DST 0.62 191 ePg 55 18.90 0.0
 eSg 55 28.60
 HRT 0.91 48 ePn 55 24.00 0.3
 CTT 0.96 344 ePg 55 24.50 -0.1
 KGT 1.15 282 ePn 55 28.00 0.2

S.D. = 0.2 on 7 of 7 obs.

& APR 13, 1991 18h 43m 03.88s
 58.909 N 153.130 W
 DEPTH = 72.8km
 KODIAK ISLAND REGION (13)
 <AEIC>.

CDD 0.27 275 iP 43 14.68 -0.7
 eS 43 23.41
 AUI 0.45 340 iP 43 16.07 -0.6
 eS 43 25.32
 AUE 0.47 345 iP 43 16.40 -0.4
 AUH 0.48 341 iP 43 16.54 -0.5
 SYI 0.49 128 iP 43 16.29 -0.7
 eS 43 25.80
 MCNL 0.68 294 iP 43 18.34 -0.7
 eS 43 29.05
 PDB 1.04 329 iP 43 22.17 -1.1
 eS 43 36.14
 HOM 1.07 45 iP 43 23.04 -0.6

eS 43 38.12
 CNPM 1.15 57 eP 43 23.60 -1.2
 eS 43 39.29
 BRK 1.43 52 eP 43 26.83 -1.7
 eS 43 44.43
 NNL 1.47 39 iP 43 28.64 -0.3
 RED 1.53 7 eP 43 28.31 -1.5
 eS 43 47.44
 RSO 1.57 7 eP 43 29.31 -1.2
 eS 43 48.98
 RS2 1.57 7 eP 43 28.94 -1.6
 eS 43 48.79

RDW 1.59 6 eP 43 29.40 -1.3
 REF 1.60 8 eP 43 29.52 -1.4
 eS 43 48.98
 RDN 1.62 6 eP 43 29.77 -1.3
 eS 43 49.52

NCT 1.66 3 eP 43 29.93 -1.7
 DFR 1.70 7 P 43 30.92 -1.3

eS 43 51.98
 RDT 1.71 12 iP 43 30.78 -1.5
 eS 43 51.74

NKA 2.07 27 eP 43 37.78 0.6
 SLKM 2.18 41 eP 43 36.64 -2.0
 SEW 2.23 56 eP 43 36.71 -2.5

CKL 2.33 9 eP 43 39.54 -1.3
 SPU 2.34 13 iP 43 39.63 -1.3
 BGL 2.39 9 eP 43 40.50 -1.2

NCG 2.55 11 iP 43 42.64 -1.2
 SUA 2.83 24 eP 43 46.53 -1.2
 LTI 2.92 65 eP 43 46.40 -2.5

PMS 2.95 36 eP 43 47.51 -1.9
 KNIM 3.10 60 eP 43 48.10 -3.3
 SKT 3.18 14 eP 43 50.18 -2.4

PWA 3.19 29 eP 43 51.33 -1.4
 PLRM 3.35 35 eP 43 51.89 -3.0
 KNK 3.43 41 eP 43 53.43 -2.6

GHO 3.55 34 eP 43 55.13 -2.7
 GLI 3.63 54 eP 43 54.66 -4.1
 CUT 3.78 21 eP 43 58.68 -2.2

38 obs. associated

APR 13, 1991 10h 48m 08.28 ± 1.27s
 24.424 N ± 5.7km 123.822 E ± 7.5km
 DEPTH = 16.5 ± 8.4 km
 4.6mb (13 obs.)

SOUTHWESTERN RYUKYU ISLANDS (246)

TWC 1.81 276 ePc 48 38.70 -0.2
 TWF1 2.55 246 ePc 48 49.60 0.0
 TWG 2.99 238 ePc 48 55.70 -0.1
 QZH 4.79 277 ePn 49 20.80 -0.6
 SSE 7.04 341 eP 49 51.20 -1.9

N 10s 0.50um
 NJ2 8.77 331 eP 50 19.50 2.3
 GZH 9.69 264 eP 50 35.00 5.0X

QIZ 14.05 250 eP 51 37.20 8.4X
 GYA 15.63 281 P 51 57.20 7.6X
 XAN 16.14 310 eP 52 00.00 4.0X

TIY 16.43 326 eP 52 04.50 4.8X
 Z 10s 0.51um
 BJ1 16.85 339 eP 52 10.00 5.2X

SNY 17.36 359 P 52 15.40 4.2X
 1.0s 10.00nm 3.9mb

CD2 18.90 294 eP 52 30.60 0.1
 eS 56 05.00

HHC 19.33 331 eP 52 36.90 1.2
 CN2 19.38 4 eP 52 36.00 -0.1

Z 12s 0.60um
 N 12s 0.30um
 E 12s 0.30um

ePP 52 42.00
 LZH 20.76 309 eP 52 50.00 -1.1
 1.0s 15.00nm 4.3mb

Z 20s 0.24um 3.6msz
 PP 52 57.50
 CHG 23.78 261 eP 53 24.30 3.4X

GTA 25.16 312 eP 53 35.00 0.6
 1.0s 10.00nm 4.4mb

GUN 34.14 284 P 54 55.28 0.2
 PKI 34.58 284 P 54 58.40 -0.4
 KKN 34.68 284 P 54 59.58 0.0

DMN 34.84 284 P 55 00.24 -0.8
 GKN 35.23 284 P 55 04.02 -0.2
 GBA 44.97 265 P 56 28.00 3.3X
 0.3s 0.80nm 4.1mb
 WRA 45.27 166 P 56 26.00 -0.9

WB2 0.7s 14.70nm 5.0mb
45.28 166 eP 56 26.40 -0.6
0.8s 18.80nm 5.1mb
KOD 46.22 261 eP 56 37.20 2.2
ASPA 48.79 168 iPc 56 55.20 0.6
0.9s 7.00nm 4.7mb
WARB 50.38 177 eP 57 07.20 0.5
FBA 67.49 27 (P) 59 05.40 0.2
INK 72.09 22 eP 59 33.00 -0.2
HFS 78.52 331 eP 00 09.20 -0.7
0.6s 1.00nm 4.0mb
NB2 79.13 333 P 00 12.30 -1.0
0.6s 0.90nm 4.0mb
YKA 81.80 24 eP 00 26.90 -0.5
0.7s 4.40nm 4.6mb
CDF 87.98 323 eP 00 58.20 -0.6
BSF 88.58 323 eP 01 02.00 0.3
LPG 89.97 321 eP 01 08.10 -0.5
0.8s 6.70nm 4.9mb
LPL 89.97 321 eP 01 08.20 -0.3
0.6s 3.60nm 4.8mb
FFC 91.93 25 iPd 01 17.70 0.7
0.7s 6.00nm 5.1mb
TNP 95.49 44 P 01 35.40 1.4
S.D. = 0.9 on 32 of 41 obs.

? APR 13, 1991 11h 07m 54.46±0.97s
39.130 N ± 8.4km 27.615 E ± 13.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

IZM 0.78 201 iPg 08 09.70 0.0
iSg 08 21.20
DST 0.92 59 ePn 08 12.10 0.1
KCT 1.26 27 ePn 08 17.70 -0.1
KGT 1.34 350 ePn 08 19.20 0.0
S.D. = 0.1 on 4 of 4 obs.

? APR 13, 1991 11h 19m 31.64±5.00s
39.601 N ± 32.9km 29.433 E ± 27.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.9 (ISK).

DST 0.62 271 ePg 19 44.10 -0.1
eSg 19 55.10
IZI 0.74 2 iPg 19 45.70 -0.4
YLV 0.97 357 iPn 19 49.70 -0.3
KCT 1.05 308 ePn 19 51.70 0.2
HRT 1.23 8 ePn 19 55.20 0.6
S.D. = 0.6 on 5 of 5 obs.

% APR 13, 1991 11h 33m 06.92±0.74s
41.112 N ± 7.3km 28.468 E ± 5.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

ISK 0.45 96 iPg 33 15.80 -0.3
KCT 0.87 186 ePg 33 22.70 -0.9
YLV 0.88 128 iPg 33 24.20 0.4
DMK 0.89 323 iPg 33 23.80 -0.2
iSg 33 35.80
HRT 0.95 107 iPg 33 25.20 0.1
eSg 33 39.70
IZI 1.09 135 ePn 33 27.70 0.3
KGT 1.10 234 ePn 33 28.20 0.6
S.D. = 0.6 on 7 of 7 obs.

* APR 13, 1991 12h 28m 11.26±1.95s
27.264 N ± 11.1km 101.185 E ± 20.0km
DEPTH = 59.9 ± 19.7 km
4.1mb (4 obs.)
SICHUAN PROVINCE, CHINA (307)

KMI 2.55 146 Pnd 28 51.50 0.3
Pg 28 53.50
Sn 29 25.50
CD2 4.27 31 ePn 29 16.60 1.3
Pg 29 26.40
GYA 4.96 98 Pg 29 28.80 3.7X
XAN 9.48 43 eP 30 25.80 -1.9
S 32 13.10
GBA 26.01 243 Pd 33 39.80 -0.6
0.4s 1.10nm 3.7mb
WRA 56.87 142 P 37 52.00 -0.3

WB2 0.5s 2.50nm 4.5mb
56.87 142 iPd 37 52.60 0.2
0.7s 7.50nm 4.9mb
YKA 86.08 16 eP 40 47.50 1.1
0.6s 0.20nm 3.4mb
S.D. = 1.6 on 7 of 8 obs.
? APR 13, 1991 12h 36m 03.78±1.81s
16.209 N ± 33.2km 95.572 W ± 18.7km
DEPTH = 99.4 ± 12.3 km
3.7mb (2 obs.)
OAXACA, MEXICO (60)

OXX 1.40 308 iP 36 29.50 0.1
iS 36 50.00
SCX 2.87 79 iP 36 49.00 0.5
iS 37 20.00
IISM 3.26 328 iP 36 53.00 -0.8
iS 37 31.00
TPX 3.44 112 (P) 36 56.00 -0.4
IIT 3.82 317 (P) 36 36.00 -25.9X
PPM 4.07 315 eP 37 06.00 0.5
(S) 37 58.00
CRX 5.04 310 (P) 37 39.00 20.3X
GOL 24.92 342 P 41 19.90 0.6
1.0s 7.00nm 4.0mb
YKA 48.13 348 eP 44 33.30 -2.0
0.7s 0.40nm 3.4mb
INK 57.37 344 eP 45 45.00 1.4
S.D. = 1.4 on 8 of 10 obs.

? APR 13, 1991 13h 16m 14.31±6.80s
17.991 N ± 33.4km 101.846 W ± 50.9km
DEPTH = 33.0km (normol)
NEAR COAST OF GUERRERO, MEXICO (58)

MRX 1.81 20 iP 16 43.50 -0.2
iS 17 08.50
CGX 2.29 318 (P) 17 21.50 30.8X
CRX 2.49 55 iP 16 54.50 0.8
(S) 17 30.00
PPM 3.24 70 iP 17 03.50 -1.0
IIT 3.51 72 eP 17 05.00 -3.2X
IISM 4.36 76 eP 17 20.00 0.1
QXX 4.97 100 eP 17 29.00 0.1
(S) 18 17.00
S.D. = 0.9 on 5 of 7 obs.

? APR 13, 1991 13h 23m 15.43±2.01s
12.506 N ± 34.4km 48.212 E ± 40.9km
DEPTH = 10.0km (geophysicist)
4.3mb (3 obs.)
EASTERN GULF OF ADEN (415)

MAIO 25.78 21 eP 28 48.00 -0.3
NUR 50.96 345 eP 32 21.00 2.1
HFS 53.91 339 eP 32 40.20 -0.9
0.5s 1.10nm 4.1mb
Z 16s 0.04um 3.6mszx
LR 57 14.00
NB2 55.42 339 P 32 51.20 -1.0
1.2s 4.00nm 4.3mb
WRA 90.63 110 P 36 20.00 0.1
0.7s 2.10nm 4.5mb
S.D. = 1.7 on 5 of 5 obs.

? APR 13, 1991 13h 23m 48.80±7.33s
10.822 N ± 32.3km 62.312 W ± 68.0km
DEPTH = 80.0km (geophysicist)
NEAR COAST OF VENEZUELA (97)
MD 3.5 (TRN).

TCE 0.56 103 eP 24 03.33 0.0
eS 24 15.55
TRN 0.91 101 eP 24 07.11 0.1
eS 24 21.21
TPP 0.98 121 eP 24 07.74 -0.2
eS 24 23.42
TBH 1.27 105 eP 24 11.57 0.1
eS 24 31.18
BOT 1.60 77 eP 24 15.76 -0.1
eS 24 37.05
S.D. = 0.2 on 5 of 5 obs.

* APR 13, 1991 13h 34m 47.05±2.49s
36.520 N ± 23.8km 70.938 E ± 10.7km
DEPTH = 190.4 ± 32.2 km

3.4mb (4 obs.)
HINDU KUSH REGION (718)

QUE 7.14 209 iPc 36 30.20 0.1
eS 37 46.70
GKN 14.36 122 P 38 03.82 0.8
DMN 14.93 123 P 38 10.70 0.5
KKK 14.93 122 P 38 10.96 0.8
PKI 15.16 122 P 38 12.42 -0.7
GUN 15.27 120 P 38 12.96 -1.5
HFS 43.02 322 eP 42 28.50 -0.4
0.6s 0.80nm 3.4mb
NB2 44.33 323 P 42 39.20 -0.3
0.7s 1.00nm 3.4mb
YKA 81.23 3 eP 46 43.20 0.9
0.4s 0.40nm 3.5mb
WRA 82.05 122 P 46 47.00 -0.3
1.8s 1.50nm 3.4mb
S.D. = 1.0 on 10 of 10 obs.

& APR 13, 1991 14h 01m 05.62s
58.869 N 154.860 W
DEPTH = 127.3km
2.5mb (1 obs.)
ALASKA PENINSULA (12)
<AEIC>.

MCNL 0.42 40 iP 01 23.39 -0.8
eS 01 37.10
CDD 0.63 84 iP 01 24.52 -1.0
eS 01 39.98
AUI 0.87 57 eP 01 26.55 -0.9
eS 01 42.62
AUH 0.88 55 eP 01 26.79 -0.8
AUE 0.91 57 iP 01 26.99 -0.7
PDB 0.98 20 iP 01 27.24 -1.2
SYI 1.31 100 iP 01 30.50 -1.3
RED 1.88 33 iP 01 37.00 -1.5
S 02 01.58
RS2 1.92 33 eP 01 37.52 -1.6
eS 02 02.46
RSO 1.92 33 iP 01 37.71 -1.4
eS 02 02.37
RDW 1.92 32 iP 01 37.57 -1.6
NCT 1.96 29 iP 01 37.95 -1.5
REF 1.96 33 iP 01 38.03 -1.6
RDN 1.96 32 eP 01 38.04 -1.5
eS 02 03.38

CNPM 1.98 69 eP 01 37.72 -1.9
DFR 2.05 32 iP 01 39.03 -1.6
RDT 2.11 35 iP 01 39.71 -1.7
NNL 2.17 56 eP 01 41.46 -0.5
BRK 2.23 65 eP 01 40.88 -1.9
CKL 2.66 27 eP 01 46.31 -2.1
BGL 2.70 26 eP 01 47.73 -1.2
SPU 2.71 30 eP 01 46.65 -2.4
CRP 2.76 28 eP 01 48.34 -1.5
NCG 2.88 27 eP 01 49.92 -1.4
SEW 3.02 64 eP 01 50.62 -2.4
SUA 3.32 37 eP 01 54.95 -2.2
SKT 3.53 26 eP 01 57.66 -2.2
PMS 3.57 46 eP 01 57.43 -3.0
LTI 3.76 69 eP 01 59.97 -3.0
MTU 3.85 70 eP 02 01.32 -2.8
KNIM 3.91 65 eP 02 01.58 -3.4
KNK 4.09 49 eP 02 03.12 -4.3
GNO 4.15 43 eP 02 04.28 -3.9
CUT 4.21 31 eP 02 06.09 -2.8
GLI 4.40 59 eP 02 08.02 -3.5
YKA 19.80 62 eP 05 23.80 -4.0
0.8s 0.20nm 2.5mb
36 obs. associated

% APR 13, 1991 14h 08m 13.70±1.28s
42.420 N ± 11.4km 19.801 E ± 11.4km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.5 (TTG).

PVY 0.22 36 iPg 08 18.10 -0.4
iSg 08 22.10
TTG 0.40 272 iPg 08 21.29 -0.6
iSg 08 28.00
IVA 0.46 9 iPg 08 23.44 0.4
iSg 08 30.29
ULC 0.61 222 iPg 08 26.14 0.1
iSg 08 34.64

13d 14h

BDV 0.73 260 iPg 08 28.62 0.5
iSg 08 39.77
S.D. = 0.7 on 5 of 5 obs.

? APR 13, 1991 14h 14m 18.29±4.39s
51.283 N ±30.8km 16.039 E ±25.7km
DEPTH = 10.0km (geophysicist)
POLAND (548)

KSP 0.47 160 iP 14 27.60 -0.2
0.5s 128.00nm

PRU 1.61 217 Pg 14 48.30 1.5
e 14 52.10
Sn 15 04.50
eSg 15 12.00

CLL 1.91 272 iPn 14 51.60 0.5
ePg 14 55.00
iSg 15 17.80

KHC 2.67 217 ePn 15 01.80 -0.4
ePg 15 04.80
eSn 15 34.50
eSg 15 45.00

MOX 2.87 259 ePg 15 12.00 7.1X
iSg 15 50.00

WET 2.95 225 ePn 15 05.70 -0.3
GRF 3.46 245 e(Pg) 15 12.00 -1.3
eSg 16 09.70

S.D. = 1.2 on 6 of 7 obs.

? APR 13, 1991 15h 07m 51.36±2.51s
18.542 N ±22.1km 66.813 W ±11.7km
DEPTH = 33.0km (normal)

PUERTO RICO REGION (90)

LRS 0.25 187 P 07 58.10 -0.4
S 09 02.90

CLLP 0.51 154 P 08 02.30 0.2
PORP 0.51 161 P 08 02.00 -0.2

MGP 0.59 206 P 08 03.60 0.3
SUG 0.76 124 iP 08 05.90 0.2

LPR 0.92 104 P 08 07.90 -0.1
S 08 18.14

CPD 0.99 120 P 08 09.00 0.1
S.D. = 0.3 on 7 of 7 obs.

* APR 13, 1991 15h 32m 43.79±0.74s
37.100 N ±13.5km 71.703 E ±9.9km
DEPTH = 33.0km (normal)

3.9mb (4 obs.)
AFGHANISTAN-USSR BORDER REGION (717)

QUE 7.95 211 eP 34 41.80 1.7
eS 36 07.00

NDI 9.59 150 eP 35 08.00 5.5X
MAIO 9.84 269 eP 35 04.00 -2.1

GKN 14.17 126 P 36 05.58 1.2
0.4s 27.00nm 5.3mb X

KKN 14.74 125 P 36 12.96 1.1
DMN 14.75 126 P 36 11.88 -0.1

PKI 14.97 125 P 36 13.58 -1.4
GUN 15.05 123 P 36 14.62 -1.5

HFS 42.95 321 eP 40 41.50 0.6
0.3s 1.10nm 4.1mb

NBZ 44.24 323 P 40 51.90 0.4
0.5s 0.60nm 3.7mb

YKA 80.62 3 eP 44 55.20 1.1
0.5s 0.40nm 3.7mb

WRA 81.83 122 P 45 00.00 -1.1
0.3s 2.00nm 4.6mb

S.D. = 1.5 on 11 of 12 obs.

? APR 13, 1991 15h 38m 56.90±1.02s
39.100 N ±10.2km 27.662 E ±15.5km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.7 (ISK).

IZM 0.77 204 ePg 39 11.80 -0.1
iSg 39 23.80

DST 0.90 56 ePn 39 14.70 0.5
KCT 1.27 25 ePn 39 19.60 -0.8

KGT 1.38 349 ePn 39 22.60 0.5
S.D. = 1.1 on 4 of 4 obs.

? APR 13, 1991 15h 41m 54.70±8.49s
40.742 N ±12.3km 29.936 E ±57.6km

DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

HRT 0.22 292 iPg 41 59.60 0.1
eSg 42 08.10

YLV 0.46 248 iPg 42 04.10 0.0
IZI 0.54 221 ePg 42 05.60 0.0

CTT 1.21 290 iPn 42 17.10 -0.1
S.D. = 0.2 on 4 of 4 obs.

? APR 13, 1991 15h 49m 33.53±2.09s
10.936 S ±25.3km 78.018 W ±19.7km
DEPTH = 71.1 ±20.5 km

4.3mb (4 obs.)
NEAR COAST OF PERU (115)
Felt (IV) at Huacho and (II) at

Lima.

NNA 1.56 132 iPc 49 58.50 -1.3
0.6s 100.00nm

ZOBO 10.98 120 P 52 09.00 -1.6
S 55 36.00

LPB 11.13 121 P 52 15.00 2.6
CNCB 11.36 122 P 52 17.90 2.2

SIV 17.23 109 P 53 30.20 -0.9
PDCR 38.09 96 (P) 56 46.00 -1.4

ALO 52.99 331 eP 58 45.70 0.3
1.0s 2.50nm 4.2mb

ANMO 52.99 331 P 58 45.60 0.1
SES 67.53 338 eP 00 24.00 -0.3

FFC 68.46 345 eP 00 30.00 0.1
0.7s 4.00nm 4.5mb

LKO 74.85 77 P 01 09.04 0.3
KIC 74.92 80 P 01 09.10 -0.1

YKA 78.51 344 eP 01 28.40 0.2
0.6s 0.70nm 3.8mb

INK 88.18 342 eP 02 18.00 0.6
WBZ 135.76 226 ePKP 08 47.50 -1.1

WRA 135.77 226 PKP 08 49.00 0.4
0.9s 2.30nm

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

* APR 13, 1991 16h 50m 04.79s
59.371 N 152.496 W
DEPTH = 69.1km

2.6mb (1 obs.)
SOUTHERN ALASKA (2)
<AEIC>.

XLV 0.40 78 iPc 50 16.13 -0.7
eS 50 25.02

AUE 0.45 269 ePc 50 16.69 -0.5
AUI 0.48 266 ePc 50 16.97 -0.5

AUH 0.49 270 eP 50 17.19 -0.5
HOM 0.52 56 ePd 50 17.86 0.0

CNPM 0.66 76 iPc 50 18.86 -0.6
eS 50 30.09

CDD 0.74 234 iPd 50 19.54 -0.8
SYI 0.77 176 ePc 50 19.97 -0.6

NNL 0.91 42 iPd 50 22.63 0.3
BRLK 0.91 64 ePd 50 22.04 -0.4

PDB 0.96 297 iPc 50 21.82 -1.2
eS 50 35.25

MCNL 0.96 260 ePc 50 21.91 -1.1
eS 50 35.30

RED 1.06 353 iPd 50 23.59 -0.8
eS 50 38.57

RSO 1.10 353 iPd 50 24.35 -0.7
RSZ 1.10 353 iPd 50 24.36 -0.7

RDW 1.13 352 iPd 50 24.56 -0.8
REF 1.13 355 iPd 50 24.58 -0.8

RDN 1.15 353 iPd 50 24.96 -0.7
eS 50 40.19

RDT 1.21 2 iPd 50 25.41 -0.9
eS 50 41.45

NCT 1.21 350 ePd 50 25.70 -0.7
eS 50 42.00

DFR 1.23 356 iPd 50 25.90 -0.7
NKA 1.51 24 eP 50 31.53 1.2

SLKM 1.62 44 eP 50 30.77 -1.0
SEW 1.71 63 eP 50 32.80 -0.1

SPU 1.83 7 iPd 50 34.17 -0.5
eS 50 57.63

CKL 1.83 2 iPd 50 34.35 -0.5
eS 50 57.37

BGL 1.90 2 ePd 50 35.32 -0.4
CRP 1.91 5 ePd 50 35.53 -0.4

NCG 2.05 5 ePd 50 37.31 -0.4
SUA 2.27 22 ePd 50 40.24 -0.7

SVW 2.34 320 ePc 50 40.19 -1.6
eS 51 07.73

PMS 2.38 37 ePd 50 41.54 -0.8
LTI 2.45 72 eP 50 41.85 -1.3

MTU 2.53 74 eP 50 43.01 -1.4
KNIM 2.59 66 eP 50 43.85 -1.4

PWA 2.63 28 eP 50 44.53 -1.2
SKT 2.66 10 eP 50 45.27 -0.9

PLRM 2.78 35 eP 50 46.69 -1.2
KNK 2.87 43 ePd 50 47.46 -1.6

GHO 2.99 35 ePd 50 49.09 -1.7
GLI 3.10 58 eP 50 49.48 -2.8

CUT 3.23 19 eP 50 52.93 -1.2
VLZ 3.54 57 eP 50 56.01 -2.5

KLU 3.89 54 eP 51 01.02 -2.5
TOA 4.14 46 eP 51 05.04 -2.0

RND 4.41 22 eP 51 09.40 -1.4
GLB 4.78 61 eP 51 13.60 -2.4

YKA 18.49 64 eP 54 15.30 -2.0
0.5s 0.20nm 2.6mb

48 obs. associated

* APR 13, 1991 17h 31m 07.28s
62.051 N 147.768 W
DEPTH = 37.5km

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

SCM 0.30 136 eP 31 14.83 -0.7
eS 31 22.09

GHO 0.61 243 iP 31 18.64 -1.0
eS 31 27.81

KNK 0.72 207 iP 31 20.50 -0.5
eS 31 30.75

TOA 0.75 85 iP 31 20.82 -0.7
eS 31 31.51

PLRM 0.79 235 eP 31 21.02 -1.0
eS 31 32.13

KLU 1.04 122 iP 31 24.47 -1.2
S 31 39.09

PWA 1.08 249 iP 31 26.09 0.0
eS 31 40.29

TZL 1.10 89 eP 31 25.37 -1.1
SDG 1.14 64 iP 31 25.95 -1.1

VLZ 1.15 143 eP 31 25.44 -1.6
eS 31 41.44

PMS 1.18 227 eP 31 27.22 -0.3
eS 31 42.58

GLI 1.22 164 iP 31 27.60 -0.5
eS 31 45.14

CUT 1.22 288 iP 31 27.22 -0.9
PAX 1.41 48 iP 31 29.55 -1.4

RND 1.45 340 eP 31 30.19 -1.3
SUA 1.53 249 eP 31 32.66 0.0

KNIM 1.71 179 eP 31 34.60 -0.5
eS 31 57.57

MCK 1.77 343 eP 31 35.25 -0.8
SKT 1.78 269 eP 31 35.60 -0.5

TRF 1.82 322 eP 31 35.38 -1.6
DDM 1.95 26 eP 31 38.14 -0.5

SLKM 1.95 218 eP 31 38.52 -0.1
LTI 2.02 181 eP 31 39.01 -0.6

MTU 2.07 178 eP 31 39.71 -0.6
SEW 2.12 203 eP 31 40.11 -0.8

NCG 2.19 255 eP 31 42.06 0.0
SPU 2.23 249 eP 31 42.24 -0.3

CRP 2.24 251 eP 31 43.77 0.9
BWN 2.26 341 eP 31 41.84 -1.2

DOT 2.34 45 eP 31 43.39 -0.7
BGL 2.34 252 eP 31 44.36 0.1

CKL 2.34 251 eP 31 43.78 -0.6
HDA 2.39 9 eP 31 44.42 -0.5

WRH	2.43	357	eP	31	44.45	-1.0
CROM	2.58	118	eP	31	46.73	-1.0
CCB	2.61	360	eP	31	46.58	-1.3
NNL	2.65	222	eP	31	48.06	-0.4
RDT	2.68	239	eP	31	48.30	-0.8
TGL	2.71	117	eP	31	48.15	-1.3
DFR	2.79	240	eP	31	49.72	-0.9
BALM	2.79	109	eP	31	49.19	-1.5
RDS	2.79	357	eP	31	48.92	-1.7
REF	2.85	239	eP	31	50.99	-0.6
FBA	2.86	360	eP	31	49.93	-1.6
RDN	2.86	240	eP	31	50.34	-1.4
RSO	2.89	239	eP	31	51.34	-0.8
RS2	2.89	239	eP	31	51.62	-0.6
RDW	2.90	239	eP	31	51.98	-0.3
NCT	2.90	241	eP	31	51.17	-1.1
RED	2.92	238	eP	31	51.79	-0.7
MDM	2.93	356	eP	31	51.07	-1.5
GLM	2.95	3	eP	31	51.07	-1.9
CNPM	3.05	215	eP	31	53.38	-0.9
CTGM	3.27	107	eP	31	56.21	-1.3

54 obs. associated

& APR 13, 1991 17h 41m 11.44s
59.918 N 153.355 W
DEPTH = 134.6km
SOUTHERN ALASKA (2)
<AEIC>.

PDB	0.44	253	iPd	41	29.91	-1.0
			eS	41	44.51	
AUH	0.56	185	eP	41	31.11	-0.6
AUE	0.56	181	iPc	41	30.87	-0.7
RED	0.58	30	ePc	41	30.99	-0.9
			eS	41	46.22	
AUI	0.59	184	ePc	41	31.02	-0.7
			eS	41	45.99	
RS2	0.62	28	ePc	41	31.63	-0.7
			eS	41	46.86	
RSO	0.62	29	ePc	41	31.59	-0.7
			eS	41	46.81	
RDW	0.63	25	ePd	41	31.50	-0.8
REF	0.66	29	iPd	41	31.70	-0.8
RDN	0.67	26	ePd	41	31.71	-0.8
NCT	0.68	18	ePd	41	31.72	-0.8
			eS	41	47.19	
DFR	0.75	26	iPd	41	32.05	-1.0
RDT	0.81	35	iPd	41	32.58	-0.9
MCNL	0.89	215	iPd	41	32.99	-1.1
			eS	41	49.55	
HOM	0.90	106	ePc	41	33.60	-0.6
XLV	0.95	119	ePc	41	33.47	-1.1
CDD	1.00	189	iPd	41	34.07	-1.0
			eS	41	51.59	
NNL	1.04	82	iPc	41	35.46	0.0
CNPM	1.14	109	iPc	41	35.48	-1.0
			eS	41	53.73	
NKA	1.34	51	ePd	41	39.11	0.7
CKL	1.38	21	iPd	41	38.22	-0.8
			eS	41	59.10	
SYI	1.40	159	ePc	41	37.82	-1.3
			eS	41	58.77	
SPU	1.42	26	iPd	41	38.38	-1.0
			eS	41	59.69	
BGL	1.43	19	iPd	41	38.98	-0.6
CRP	1.48	23	iPd	41	39.44	-0.7
			eS	42	01.09	
NCG	1.60	21	ePd	41	40.72	-0.8
SLKM	1.67	68	eP	41	40.80	-1.4
SEW	1.97	83	iPc	41	44.43	-1.2
SUA	2.01	39	ePd	41	45.11	-1.3
			eS	42	11.27	
SKT	2.25	22	iPd	41	47.81	-1.4
			eS	42	16.59	
PMS	2.30	53	ePd	41	48.11	-1.7
PWA	2.44	43	eP	41	50.65	-0.8
PLRM	2.67	49	eP	41	52.15	-2.3
LTI	2.77	85	eP	41	54.06	-1.7
KNK	2.84	56	ePd	41	53.95	-2.8
KNIM	2.84	79	eP	41	54.23	-2.6
GHO	2.86	47	eP	41	54.29	-2.7
MTU	2.87	86	ePc	41	55.73	-1.4
SCM	3.52	54	ePc	42	03.06	-2.7
VLZ	3.68	68	eP	42	04.97	-2.8
TRF	3.83	21	eP	42	07.81	-2.2
KLU	3.98	63	ePc	42	09.09	-2.8
RND	4.11	30	eP	42	10.92	-2.6

TOA	4.13	55	eP	42	11.47	-2.4
GLB	4.94	68	eP	42	22.11	-2.6
NEA	5.08	21	eP	42	23.79	-2.9
CROM	5.15	76	eP	42	25.84	-1.8
WRH	5.19	26	ePd	42	24.97	-3.1
CCB	5.41	26	ePd	42	27.71	-3.2
HDA	5.41	31	ePd	42	28.40	-2.6
RDS	5.49	24	ePd	42	29.43	-2.7
BALM	5.56	74	ePc	42	31.38	-1.8
MDM	5.59	23	ePd	42	30.41	-3.1
FBA	5.63	25	eP	42	30.92	-3.0
GLM	5.79	26	eP	42	32.99	-3.3

55 obs. associated

APR 13, 1991 19h 08m 05.15±0.72s
42.031 N ± 7.6km 106.857 W ± 7.0km
DEPTH = 5.0km (geophysicist)
3.2mb (1 obs.)

WYOMING (460)
ML 3.0 (GS).

BW06	2.13	291	eP	08	42.70	0.6
GOL	2.59	154	eP	08	48.70	0.1
GLD	2.59	151	eP	08	49.20	0.6
RSSD	2.94	44	eP	08	53.20	-0.4
DAU	3.69	245	eP	09	04.60	0.2
PV09	3.93	207	eP	09	07.50	-0.3
MSU	5.37	231	eP	09	27.50	-0.7
ANMO	7.08	177	e(P)	09	54.50	2.3X
YKA	21.01	350	eP	12	48.90	-2.7X

S.D. = 0.6 on 7 of 9 obs.

? APR 13, 1991 19h 25m 22.26±3.49s
16.471 N ± 12.5km 60.978 W ± 28.8km
DEPTH = 27.5 ± 9.3 km
LEEWARD ISLANDS (92)
ML 2.6 (FDF).

DEG	0.18	207	Pd	25	28.17	0.2
			S	25	33.30	
SFG	0.30	224	eP	25	28.80	-0.7
SEG	0.51	262	eP	25	33.06	0.4
MGG	0.64	211	eP	25	35.10	0.3
DOG	0.75	235	eP	25	36.76	0.0
PAG	0.80	237	eP	25	37.50	-0.2
			S	25	49.60	
BPA	1.02	304	eP	25	40.60	-0.1
BBL	1.06	207	eP	25	41.30	0.0

S.D. = 0.4 on 8 of 8 obs.

& APR 13, 1991 20h 51m 30.50s
37.563 N 118.888 W
DEPTH = 5.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 3.3 (BRK).

BONR	0.61	50	iP	51	41.50	-1.2
FRI	0.87	229	iPc	51	46.40	-1.2
CMB	1.28	292	iPd	51	53.50	-1.2
			iS	52	10.80	
TNP	1.42	68	iP	51	56.40	-0.8
KVN	1.61	22	eP	52	00.00	0.2
PKEM	1.79	214	eP	52	02.70	0.4
LLA	1.90	241	iPc	52	04.30	0.5
PRI	2.01	226	eP	52	06.10	0.5
ARN	2.12	265	eP	52	07.30	0.3
SAO	2.19	249	iP	52	08.80	0.7
PRS	2.34	239	ePc	52	10.70	0.5
BCH	2.56	202	eP	52	13.30	-0.2
ABL	2.72	186	eP	52	15.80	-0.1
LBFM	4.44	329	eP	52	50.40	10.2

14 obs. associated

% APR 13, 1991 21h 47m 37.55±0.85s
40.333 N ± 8.4km 27.046 E ± 7.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.9 (ISK).

KGT	0.23	59	iPg	47	42.40	-0.1
EDC	0.63	88	ePg	47	49.00	-1.1
EZN	0.75	228	iPg	47	52.00	-0.2
			eSg	48	02.20	
KCT	1.01	94	ePn	47	57.40	0.8
CTT	1.33	52	iPn	48	01.90	-0.2
DST	1.42	120	ePn	48	04.00	0.6

DMK	1.58	20	ePn	48	06.00	0.3
YLV	1.79	82	ePn	48	09.50	0.7
IZI	1.86	89	iPn	48	08.90	-0.8

S.D. = 0.8 on 9 of 9 obs.

APR 13, 1991 22h 40m 57.46±0.64s
42.006 N ± 5.2km 19.866 E ± 5.1km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.1 (TTG).

ULC	0.46	265	iPgc	41	07.00	0.1
			iSg	41	14.32	
PVY	0.59	8	iPgc	41	09.38	-0.2
			iSg	41	18.82	
TTG	0.62	313	iPgc	41	09.55	-0.3
			iSg	41	19.27	
BDV	0.82	290	iPgc	41	13.45	0.1
			iSg	41	26.47	
IVA	0.87	2	iPgd	41	14.33	0.2
			iSg	41	27.18	
NKY	1.03	322	iPgd	41	16.80	-0.2
			iSg	41	33.18	
HCY	1.11	294	iPgc	41	17.98	-0.3
			iSg	41	35.48	
OHR	1.14	142	ePg	41	18.70	-0.1
			eSg	41	35.10	
SKO	1.17	91	ePg	41	31.00	11.6X
			iSg	41	35.70	
BRY	1.33	313	iPgc	41	22.35	0.3
			iSg	41	41.87	
PLE	1.37	345	iPgd	41	22.92	0.3
			iSg	41	43.65	

S.D. = 0.3 on 10 of 11 obs.

APR 13, 1991 23h 20m 50.98±1.80s
7.618 S ± 6.9km 108.077 E ± 8.7km
DEPTH = 60.6 ± 16.0 km
5.0mb (10 obs.) 4.6Msz (3 obs.)
JAVA (277)

TRT	4.52	91	iPc	21	58.00	-0.4
			iS	22	55.80	
KGM	10.68	333	eP	23	31.00	7.2X
IPM	14.01	330	ePd	24	14.20	6.2X
KKM	15.81	31	(P)	24	40.00	8.6X
MBL	17.61	141	eP	24	49.00	-4.9X
			eS	27	45.00	
BSI	18.23	315	eP	24	56.00	-5.4X
MEKA	21.35	153	eP	25	36.00	0.9
KNA	21.80	114	eP	25	39.50	-0.1
MTN	23.27	105	eP	25	55.00	0.9
KHT	24.16	337	eP	26	02.50	-0.3
BAL	24.26	162	eP	26	04.00	0.4
			eS	30	21.00	
NST	24.44	341	eP	26	11.00	5.6X
WARB	25.56	138	eP	26	17.00	1.0
			eS	31	00.00	
COOL	26.18	154	eP	26	20.00	-1.7
			eS	31	08.00	
CHG	27.77	341	eP	26	38.00	1.8
WB2	28.25	118	eP	26	38.40	-2.3
	0.4s	15.50nm				5.0mb
ASPA	29.46	126	eP	26	51.30	-0.2
	1.1s	7.20nm				4.3mb
			eS	32	36.90	
GYA	33.90	358	P	27	32.00	2.2
KOD	35.26	300	eP	27	43.50	1.1
GBA	37.01	305	Pc	27	56.90	0.1
	0.4s	6.50nm				4.9mb
HYB	38.34	311	eP	28	06.00	-2.0
	0.8s	26.90nm				5.2mb

13d 23h

	1.5s	23.00nm	4.7mb	
Z	25s	0.26um	4.0MszX	
	PcP	30 39.00		
TIA	44.42	10 eP	28 57.10	-0.4
TIY	45.28	5 eP	29 05.00	0.6
Z	20s	0.50um	4.4Msz	
BRS	46.62	121 iPc	29 16.40	1.1
NDI	46.78	322 iPd	29 15.50	-0.9
	0.5s	38.73nm	5.6mb	
GTA	47.41	351 eP	29 23.00	1.6
Z	16s	0.60um	4.7MszX	
BJI	48.01	8 eP	29 26.00	0.2
HNR	51.29	96 P	29 51.00	-0.4
MAT	52.24	31 (P)	29 57.00	-1.2
CN2	53.54	16 eP	30 07.00	-0.7
Z	22s	0.60um	4.6Msz	
WMO	54.43	342 P	30 14.00	-0.3
QUE	54.50	316 eP	30 14.00	-1.3
GAR	58.12	326 iP	30 39.10	-1.7
YAK	71.43	11 eP	32 05.00	-1.5
TAB	73.17	313 eP	32 16.00	-1.5
SLR	77.57	245 eP	32 43.00	0.3
MBH	79.39	302 eP	32 54.00	1.5
JVI	79.57	304 eP	32 55.00	1.6
RMN	79.79	303 iPc	32 56.60	1.9
SPA	82.43	180 iPd	33 06.60	-1.3
	1.0s	14.00nm	4.9mb	
NVL	84.92	199 (P)	33 37.00	16.7X
KAF	92.84	332 iP	33 58.40	0.5
	0.6s	5.80nm	5.2mb	
NUR	93.34	331 eP	34 00.50	0.3
SOD	93.69	337 iP	34 01.90	0.1
KEV	94.01	340 eP	34 02.00	-1.2
HFS	98.74	330 eP	34 24.90	0.1
	0.5s	1.80nm	4.9mb	
LIC	113.64	273 PKP	39 24.00	-1.2
Z	20s	0.36um	5.0Msz	
LKO	114.47	277 PKP	39 25.22	-1.7
	0.5s	9.00nm		
YKA	117.06	21 ePKP	39 29.00	-1.3
	0.5s	2.20nm		
SES	126.40	30 ePKP	39 49.00	0.3
FFC	127.23	21 ePKP	39 50.00	-0.1
	0.5s	7.00nm		
ANMO	138.24	44 PKP	40 12.20	0.3
ALQ	138.24	44 ePKP	40 12.00	0.1
GAC	141.93	4 ePKP	40 13.00	-4.9X
SOB1	144.86	242 ePKP	40 22.80	-1.0
III	151.16	66 (PKP)	40 42.00	8.1X
PPM	151.68	64 (PKP)	40 43.50	8.4X
SIV	154.20	205 PKP	40 38.00	0.0
CNCB	155.42	189 PKP	40 42.00	1.7
LPB	155.71	189 PKP	40 41.00	0.4
ZOBO	155.97	189 PKP	40 43.00	1.9
	S.D. = 1.1	on 61 of 73 obs.		
APR 13, 1991 23h 41m 42.46s				
58.959 N 154.197 W				
DEPTH = 84.2km				
ALASKA PENINSULA (12)				
<AEIC>				
RDT	1.86	28 eP	42 12.99	-0.2
CKL	2.43	22 eP	42 19.88	-1.1
SPU	2.48	25 ePd	42 20.30	-1.3
SLKM	2.54	51 eP	42 22.49	0.0
SEW	2.68	63 eP	42 22.86	-1.4
SUA	3.05	33 eP	42 27.87	-1.6
PMS	3.26	43 eP	42 30.09	-2.3
SKT	3.31	22 eP	42 30.29	-2.7
LTJ	3.41	69 ePc	42 31.72	-2.7
MTU	3.50	70 eP	42 33.38	-2.2
KNIM	3.56	64 iPc	42 34.24	-2.3
PLRM	3.65	42 eP	42 35.89	-1.8
KNK	3.78	47 eP	42 37.05	-2.5
GHO	3.85	41 eP	42 37.09	-3.5
CUT	3.96	28 eP	42 38.36	-3.6
GLI	4.06	59 eP	42 40.39	-3.1
VZW	4.38	58 eP	42 45.74	-2.2
SCM	4.46	47 eP	42 46.00	-3.2
VLZ	4.50	58 iPc	42 47.75	-1.9
KLU	4.85	55 ePd	42 51.92	-2.5
TOA	5.06	48 eP	42 53.87	-3.6
GLB	5.75	60 eP	43 03.75	-3.2
CROM	5.86	67 eP	43 04.12	-4.5
BALM	6.30	66 eP	43 11.46	-3.2
24 obs. associated				

APR 14, 1991 00h 13m 09.66 ± 1.80s				
38.166 N ± 37.7km 31.753 W ± 7.9km				
DEPTH = 10.0km (geophysicist)				
4.6mb (9 obs.)				
AZORES ISLANDS REGION (404)				
TOL	21.56	77 eP	18 03.00	1.7
		eS	22 06.00	
MFF	24.69	60 eP	18 33.20	1.4
	1.1s	14.65nm	4.6mb	
LSF	25.80	61 eP	18 42.00	-0.3
	1.0s	11.00nm	4.5mb	
TCF	26.27	61 eP	18 46.40	-0.3
	1.2s	19.35nm	4.7mb	
MAF	26.51	61 eP	18 48.70	-0.2
SMF	27.42	61 eP	18 55.70	-1.6
LOR	27.50	59 eP	18 57.40	-0.6
Z	22s	0.08um	3.2Msz	
HAU	29.25	58 eP	19 12.90	-0.8
	1.1s	12.20nm	4.6mb	
Z	21s	0.13um	3.5Msz	
BSF	29.53	58 eP	19 15.50	-0.9
CDF	29.90	57 eP	19 19.00	-0.7
	0.9s	9.85nm	4.6mb	
GRF	32.60	55 eP	19 44.60	1.3
FRB	33.71	331 eP	19 53.00	0.3
KBA	33.95	60 iPc	19 55.00	-0.3
	0.6s	2.90nm	4.4mb	
		i	52 40.00	
		i	52 43.30	
KHC	34.11	56 P	19 57.00	0.6
PRU	34.76	55 eP	20 02.20	0.2
OHR	40.07	69 eP	20 47.00	0.2
FFC	49.01	314 eP	21 59.00	0.8
	1.0s	8.00nm	4.7mb	
TUL	50.25	288 eP	22 02.10	-5.8X
	0.8s	5.90nm	4.6mb	
Z	22s	0.18um	4.0Msz	
		LR	35 42.10	
YKA	53.80	325 eP	22 34.30	0.1
	0.9s	1.50nm	4.0mb	
SES	55.49	310 eP	22 51.00	4.2X
ANMO	58.55	292 P	23 08.00	-0.9
INK	59.24	335 eP	23 13.00	0.0
	S.D. = 0.9	on 20 of 22 obs.		
APR 14, 1991 01h 41m 49.40 ± 1.56s				
46.637 N ± 24.1km 5.583 E ± 16.3km				
DEPTH = 10.0km (geophysicist)				
FRANCE (538)				
ML 2.2 (LDG).				
LBF	1.16	288 Pg	42 11.40	0.3
		Sg	42 26.00	
SMF	1.20	271 Pg	42 10.70	-1.1
		Sg	42 24.40	
LOR	1.34	299 Pn	42 14.20	0.1
		Pg	42 15.20	
		Sg	42 32.80	
LPL	1.38	144 Pg	42 15.00	0.2
		Sg	42 30.80	
LPG	1.40	144 Pg	42 15.00	-0.2
SSF	1.49	287 Pn	42 15.40	-0.8
		Sg	42 35.00	
AVF	1.54	277 Pg	42 17.20	0.3
		Sg	42 35.20	
BGF	1.89	269 Pg	42 23.20	1.2
		Sg	42 45.20	
MAF	2.13	260 Pg	42 27.20	1.7X
		Sg	42 51.20	
TCF	2.36	263 Pg	42 31.20	2.4X
		Sg	42 58.20	
	S.D. = 0.8	on 8 of 10 obs.		
APR 14, 1991 02h 39m 08.69 ± 0.89s				
30.882 S ± 6.7km 71.506 W ± 10.3km				
DEPTH = 83.3 ± 9.6 km				
4.7mb (4 obs.)				
NEAR COAST OF CENTRAL CHILE (135)				
RTRS	1.90	69 e(P)	39 39.00	-0.9
RTBS	1.92	114 iPd	39 40.60	0.5
IHA	2.14	183 eP	39 44.50	1.4
		iS	40 15.00	
PEL	2.36	163 iPc	39 45.60	-0.6
		iS	40 20.00	

RTCB	2.40	105	iPd	39	56.90	10.2X
			eS	40	15.80	
ZON	2.51	106	iPd	39	49.00	0.7
LCCB	2.59	181	iPd	39	48.00	-1.2
			iS	40	27.00	
RTLL	2.64	101	iPc	39	49.00	-1.1
CFA	2.89	105	ePc	39	53.70	0.2
			eS	40	30.90	
MDZ	3.01	132	iP	39	55.80	0.6
			i	40	11.60	
ANT	7.21	8	e(P)	41	02.00	8.6X
CCH	14.30	21	(P)	42	36.00	7.3X
CNCB	14.37	14	P	42	30.00	0.1
LPB	14.62	13	P	42	35.00	2.0
ZOBO	14.87	13	P	42	35.00	-1.4
	1.0s	7.50nm			3.9mb	
Z	20s	0.13um			4.5Msz	
		LR	47	16.00		
SIV	17.63	35	P	43	06.60	-3.8X
TUL	70.25	339	e(P)	50	14.10	-0.5
	1.0s	10.10nm			4.7mb	
ANMO	73.28	331	(P)	50	38.00	5.1X
LIC	73.37	72	P	50	33.50	-0.2
TIC	73.62	72	P	50	34.98	-0.1
KIC	73.69	72	Pc	50	35.46	0.0
	0.6s	5.50nm			4.6mb	
LKO	74.82	69	Pc	50	42.50	0.4
	0.7s	12.50nm			4.9mb	
S.D. = 1.0 on 17 of 22 obs.						
? APR 14, 1991 02h 54m 15.28± 4.20s						
16.558 N ±38.6km 97.970 W ±16.7km						
DEPTH = 33.0km (normal)						
OAXACA, MEXICO (60)						
OXX	1.30	66	iP	54	37.50	0.0
			iS	54	55.50	
III	2.30	322	eP	54	52.00	0.1
			(S)	55	23.50	
IIT	2.47	353	(P)	54	55.50	1.1
IISM	2.48	13	iP	54	54.00	-0.2
			(S)	55	35.00	
PPM	2.57	346	eP	54	55.00	-1.0
			(S)	55	29.00	
CRX	3.27	330	(P)	55	10.00	4.3X
MRX	4.38	316	(P)	55	28.00	6.8X
S.D. = 1.1 on 5 of 7 obs.						
? APR 14, 1991 03h 13m 28.17± 0.86s						
43.174 N ± 7.0km 12.352 E ± 9.6km						
DEPTH = 10.0km (geophysicist)						
CENTRAL ITALY (381)						
ARV	0.54	53	P	13	38.80	-0.3
			eSg	13	48.70	
CRE	0.54	327	P	13	38.90	-0.2
			eSg	13	48.80	
MNS	0.82	163	P	13	43.60	-0.6
			eSg	13	55.50	
SFI	0.83	334	P	13	44.60	0.4
			eSg	13	58.10	
AQU	1.13	136	P	13	50.00	0.7
			eSg	14	06.60	
S.D. = 0.7 on 5 of 5 obs.						
? APR 14, 1991 04h 27m 15.72± 3.89s						
15.422 N ±33.3km 96.805 W ±21.1km						
DEPTH = 33.0km (normal)						
3.3mb (1 obs.)						
NEAR COAST OF OAXACA, MEXICO (66)						
OXX	1.65	3	iP	27	43.00	0.0
			iS	28	00.50	
IISM	3.59	351	iP	28	09.50	-0.9
			(S)	28	55.00	
IIT	3.86	338	(P)	28	15.00	0.6
			(S)	28	52.50	
III	3.89	319	eP	28	15.00	0.1
			iS	28	53.50	
PPM	4.02	335	eP	28	17.50	0.5
			iS	28	59.00	
LVVM	4.31	4	(P)	28	30.00	9.4X
CRX	4.82	326	(P)	28	27.00	-1.1
MRX	5.97	316	(P)	28	46.50	2.4X
YKA	48.67	349	eP	35	58.40	0.0
	0.3s	0.10nm			3.3mb	
S.D. = 0.8 on 7 of 9 obs.						

* APR 14, 1991 04h 38m 03.40±1.52s
37.806 N ±10.9km 27.458 E ±14.2km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 3.3 (ISK).

CIN	0.54	112	ePg	38	13.00	-1.3
			iSg	38	23.00	
IZM	0.61	345	iPg	38	14.30	-1.5
			eSg	38	21.60	
YER	0.94	135	iPn	38	22.00	0.7
KHL	1.71	72	ePn	38	34.00	0.5
DST	2.02	27	ePn	38	38.00	0.1
EZN	2.20	337	ePn	38	41.00	0.5
KCT	2.54	16	ePn	38	46.00	0.7
YLV	3.13	28	ePn	38	54.00	0.2

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

* APR 14, 1991 04h 52m 37.95±2.00s
6.866 S ±10.1km 129.515 E ±10.4km
DEPTH = 57.1 ± 17.6 km
4.5mb (3 obs.)

BANDA SEA (280)

MTN	6.15	165	iPd	54	10.50	2.1
KUPT	6.69	240	eP	54	16.50	0.5
			eS	55	25.00	
KNA	8.86	185	eP	54	45.90	-0.1
			iS	56	17.00	
WB2	13.82	161	eP	55	50.00	-2.7
	0.4s	67.30nm			5.7mb X	
OIS	16.76	145	eP	56	29.00	-1.4
			e	59	23.00	
			i	06	09.00	
MBL	17.02	212	iPc	56	34.20	0.5
			eS	59	30.00	
ASPA	17.23	166	eP	56	34.80	-1.5
	0.6s	39.80nm			4.8mb	
			eS	59	33.10	
WARB	19.41	188	eP	57	02.50	0.1
			eS	00	27.00	
CTA	20.89	131	eP	57	20.00	2.1
	1.0s	21.00nm			4.4mb	
MEKA	22.25	287	iPd	57	31.80	0.4
			eS	01	31.00	
FORR	23.90	183	iPd	57	46.90	-0.4
OLP	24.10	146	eP	57	51.00	1.6
			eS	01	57.00	
COOL	25.15	197	eP	57	59.00	-0.4
MRWA	25.63	208	iPd	58	05.00	1.1
BAL	26.50	205	iPc	58	11.60	-0.3
KLB	26.94	203	eP	58	16.50	0.6
STK	27.32	157	iPd	58	37.90	18.5X
	0.4s	4.70nm				
			e	59	01.20	
			eS	03	47.30	

MUN	27.90	205	iPc	58	23.80	-0.8
			e	03	40.00	
NWAO	28.33	202	eP	58	28.00	-0.5
PSI	31.98	286	ePc	59	05.50	4.5X
BFD	32.42	160	eP	59	04.00	-0.6
CHG	39.49	311	eP	00	06.30	1.4
GUN	54.50	311	P	02	01.84	-1.0
PKI	54.67	311	P	02	03.82	-0.3
KKN	54.89	311	P	02	04.16	-1.3
DMN	54.92	311	P	02	05.30	-0.5
GKN	55.48	311	P	02	08.40	-1.3
GBA	55.56	292	Pc	02	11.60	1.4
	0.4s	1.20nm			4.3mb	
CNCB	150.80	144	PKP	12	22.50	1.2
			i	12	28.00	
LPB	150.95	143	PKP	12	27.00	5.7X
ZOBO	151.14	143	PKP	12	22.00	0.2
			i	12	28.00	

S.D. = 1.3 on 28 of 31 obs.

? APR 14, 1991 06h 25m 10.17±1.04s
15.774 N ±16.1km 93.697 W ±9.4km
DEPTH = 33.0km (normal)
NEAR COAST OF CHIAPAS, MEXICO (69)

SCX	1.40	47	iP	25	33.50	-0.1
			iS	25	51.00	
TPX	1.63	122	(P)	25	37.00	0.0
OXX	3.18	295	iP	25	59.00	-0.3
			iS	26	37.50	

IISM 4.75 313 eP 26 14.00 -7.3X
PPM 5.73 306 (P) 26 36.00 0.3
S.D. = 0.4 on 4 of 5 obs.

? APR 14, 1991 06h 36m 17.45±0.45s
43.556 N ±7.9km 134.112 E ±10.4km
DEPTH = 400.0km (geophysicist)
4.3mb (16 obs.)

NEAR E. COAST OF EASTERN USSR (661)

GUN	41.56	264	P	43	30.00	0.3
	0.4s	14.00nm			4.6mb	
KKN	42.06	265	P	43	33.80	0.2
	0.6s	14.00nm			4.5mb	
PKI	42.09	264	P	43	34.20	0.2
DMN	42.29	264	P	43	35.80	0.3
GKN	42.40	265	P	43	36.60	0.3
	0.4s	13.00nm			4.6mb	
INK	51.23	28	eP	44	44.50	1.2
SOD	56.73	334	iP	45	22.60	-0.1
KAF	59.90	329	iP	45	43.60	-0.9
	0.4s	6.70nm			4.4mb	
YKA	60.95	30	eP	45	51.40	0.1
	0.7s	0.50nm			3.1mb X	
NUR	61.52	328	eP	45	54.30	-0.8
WB2	63.18	180	eP	46	04.40	-1.9
	0.4s	1.00nm			3.8mb	
WRA	63.18	180	P	46	06.00	-0.3
	0.6s	2.90nm			4.1mb	
HFS	65.78	332	eP	46	21.50	-1.0
	0.4s	3.40nm			4.4mb	
NB2	65.94	333	P	46	22.90	-0.7
	0.7s	3.40nm			4.2mb	
ASPA	66.89	180	iPc	46	31.10	1.4
	0.8s	7.80nm			4.5mb	
LOR	79.46	328	eP	47	41.20	-0.4
	0.6s	3.60nm			4.3mb	
LBF	79.65	328	eP	47	42.20	-0.4
	0.4s	1.15nm			4.0mb	
LPL	79.75	325	eP	47	43.90	0.5
	0.7s	3.30nm			4.2mb	
LPG	79.76	325	eP	47	43.90	0.4
	0.7s	5.50nm			4.4mb	
SSF	79.77	328	eP	47	43.00	-0.1
SMF	79.99	328	eP	47	44.30	0.0
	0.4s	1.70nm			4.1mb	
AVF	80.05	328	eP	47	44.60	0.0
	0.6s	2.70nm			4.2mb	
LPF	80.62	331	eP	47	47.50	0.0
	0.6s	4.50nm			4.4mb	
CAF	82.11	328	eP	47	56.20	0.9
LPO	82.65	328	eP	47	58.80	0.8

S.D. = 0.8 on 25 of 25 obs.

* APR 14, 1991 06h 44m 10.51±0.78s
60.819 N ±17.6km 167.003 E ±15.3km
DEPTH = 33.0km (normal)
4.1mb (5 obs.)

EASTERN SIBERIA (671)

IMA	18.10	56	eP	48	22.00	1.2
FBA	20.66	59	eP	48	49.00	-0.5
INK	25.61	48	eP	49	38.00	0.1
YKA	35.13	52	eP	51	01.20	-1.2
	0.7s	1.20nm			3.9mb	
NB2	57.05	346	P	53	54.40	-0.7
	0.7s	3.60nm			4.5mb	
HFS	57.62	345	eP	53	59.80	0.8
	0.6s	1.10nm			4.1mb	
WB2	84.69	211	eP	56	41.90	0.1
	0.9s	1.50nm			4.2mb	
WRA	84.69	211	P	56	42.00	0.2
	2.6s	1.50nm			3.7mb	

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

APR 14, 1991 07h 35m 53.34±0.37s
40.573 N ±4.5km 19.635 E ±3.6km
DEPTH = 11.2 ± 3.1 km
ALBANIA (391)
MD 3.4 (ATH), 3.2 (THE), ML 3.2 (TTG).

KEK	0.87	172	iPbd	36	12.50	2.6
			eSn	36	26.00	
OHR	1.03	58	iPgc	36	11.50	-1.3
			iSg	36	25.70	
			Lg	36	30.20	

IGT	1.17	153	ePc	36	16.60	1.5
			eS	36	34.20	
LCI	1.30	260	P	36	16.30	-1.1
			eSg	36	38.20	
FNA	1.34	80	iPd	36	17.00	-1.0
			eS	36	37.16	
KZN	1.65	99	ePn	36	23.10	0.7
BDV	1.81	341	iPnd	36	26.57	1.9
			iSn	36	52.74	

BRT	1.87	280	P	36	26.20	0.6
			eSn	36	55.80	
TTG	1.88	352	iPnd	36	27.10	1.5
			iSn	36	53.49	
SKO	1.95	44	iPn	36	26.80	0.1
			iSn	36	51.00	
			iSg	36	54.00	

PVY	2.04	7	iPnd	36	29.07	1.0
			iSn	36	56.91	
HCY	2.06	336	iPnd	36	29.07	0.8
			iSn	36	58.34	
GRG	2.14	79	ePc	36	28.92	-0.5
			eS	36	57.96	

BAI	2.17	285	P	36	30.00	0.2
LIT	2.23	101	ePc	36	31.68	0.9
			eS	37	02.52	
NKY	2.29	348	iPnc	36	32.90	1.2
			iSn	37	03.87	
IVA	2.31	5	iPnc	36	32.85	1.0
			iSn	37	07.70	

VAY	2.35	70	iPn	36	31.70	-0.7
BRY	2.47	341	iPnc	36	35.00	0.8
			iSn	37	07.49	
ORI	2.49	259	P	36	35.50	1.1
			eSn	37	08.90	
VLS	2.50	163	ePn	36	34.00	-0.6
KNT	2.54	76	iPd	36	34.77	-0.4
			eS	37	06.20	

TDS	2.69	251	P	36	37.50	0.2
SOH	2.84	84	ePd	36	39.20	-0.2
			eS	37	13.52	
MGR	3.15	263	P	36	44.40	0.7
			eSn	37	23.80	
SGO	3.30	2				

14d 08h

APR 14, 1991 08h 08m 55.70±0.10s
 27.155 N ± 2.4km 127.419 E ± 2.4km
 DEPTH = 83.0km (geophysicist)
 6.2mb (135 obs.)

RYUKYU ISLANDS (238)

Felt (III JMA) at Naho and (II JMA) at Nago, Okinawa. Depth from broadband displacement seismograms.

FAULT PLANE SOLUTION: P-Waves
 NP1: Strike=55 Dip=80 Slip=-70
 NP2: 171 22 -153
 Principal Axes:

T Plg=32 Azm=128
 P 51 348

Comment: The focal mechanism is poorly controlled and corresponds to normal faulting with a moderate strike-slip component. The preferred fault plane is not determined.

RADIATED ENERGY

No. of sto: 9 Focal mech. F
 Energy 1.2±0.3·10¹³ Nm

MOMENT TENSOR SOLUTION

Dep 74 No. of sto: 12
 Moment Tensor: Scale 10¹⁸ Nm
 Mrr=0.68 Mtt=-2.42
 Mff=1.74 Mtt=-0.72
 Mrr=-1.44 Mtt=-0.63

Principal axes:
 T Vol= 2.74 Plg=35 Azm= 89
 N 0.04 51 236
 P -2.78 17 347

Best Double Couple: Mo=2.8·10¹⁸ Nm
 NP1: Strike=122 Dip=53 Slip= 166
 NP2: 221 78 38

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 15S, 41C

Centroid Location:

Origin Time 08:09: 0.8 0.2

Lat 26.98N 0.02 Lon 127.39E 0.02

Dep 103.7 1.4 Half-duration 4.0

Moment Tensor: Scale 10¹⁸ Nm

Mrr=-0.09 0.02 Mtt=-0.31 0.05

Mff=0.39 0.05 Mtt=-1.06 0.02

Mrr=-0.76 0.02 Mtt=-0.19 0.03

Principal Axes:

T Vol= 1.18 Plg=44 Azm=126

N 0.31 14 230

P -1.49 42 333

Best Double Couple: Mo=1.3·10¹⁸ Nm

NP1: Strike=136 Dip=14 Slip= 176

NP2: 230 89 76

TWC 5.62 244 iPc 10 21.10 2.6

TWZ 5.64 250 ePc 10 23.30 4.6X

TWD 6.08 241 ePc 10 24.00 -0.1

TWQ 6.59 246 iPc 10 34.10 2.1

TWF1 6.71 237 ePc 10 32.00 -1.6

SSE 6.72 307 iPd 10 37.00 3.4X

1.0s 1140.00nm 6.3mb

Z 20s 26.20um

SP 11 06.50

IS 11 48.00

TWG 7.20 235 ePc 10 37.00 -2.4

QZH 8.24 256 Pc 10 57.00 2.5

0.5s 800.00nm 6.7mb

SP 11 26.00

S 12 26.00

SHK 8.63 30 eP 10 58.00 -1.9

NJ2 8.91 305 Pc 11 06.50 2.8X

1.0s 1100.00nm 6.6mb

Z 11s 17.60um 5.1MsZx

N 14s 56.90um

S 12 44.00

WHN 11.94 289 Pd 11 48.50 4.0X

1.5s 2700.00nm 6.9mb

Z 20s 6.30um 4.2MsZx

PP 12 02.50

BAG 12.43 212 eP 11 50.00 -1.2

TIA 12.58 318 Pd 11 56.40 3.6X

1.2s 800.00nm 6.4mb

S 14 18.00

DL2 12.68 339 iPc 11 59.00 4.8X

1.4s 2300.00nm 6.7mb

HKC 12.97 251 P 12 00.00 2.0

MAT 13.09 42 eP 11 57.00 -2.6X

1.0s 165.00nm 5.6mb

GZH 13.38 255 iPc 12 08.00 4.6X

Z 10s 7.60um

S 14 28.00

QCP 13.79 207 eP 12 18.00 9.2X

SNY 14.97 349 Pd 12 26.60 2.6

1.4s 1400.00nm 6.0mb

Z 34s 39.90um 4.0MsZ

SP 12 55.00

S 15 12.00

BJI 15.88 327 iPd 12 39.07 3.6X

1.0s 790.00nm 5.8mb

Z 34s 40.40um 4.2MsZx

N 10s 9.10um

E 10s 7.60um

eS 15 39.43

eScS 24 34.50

TIY 16.44 314 iPd 12 46.40 3.8X

1.4s 1970.00nm 6.1mb

Z 12s 24.10um 4.0MsZ

CN2 16.69 355 iPd 12 46.00 0.4

1.0s 600.00nm 5.8mb

eS 15 50.00

XAN 17.33 298 iPd 12 55.80 2.1

5.0s *****nm 6.5mb X

S 16 09.00

MDJ 17.51 5 Pc 12 56.50 0.7

8.0s 2950.00nm 5.6mb X

Z 35s 25.00um 4.1MsZx

S 16 09.00

SS 16 30.00

ScS 24 38.00

QIZ 18.07 247 eP 13 04.00 1.3

PP 13 22.00

S 16 18.50

SS 16 41.00

GYA 18.54 273 iPd 13 10.00 1.4

1.4s 400.00nm 5.5mb

S 16 32.00

ScS 24 42.00

MHC 18.92 320 iPd 13 13.80 1.1

1.0s 700.00nm 5.9mb

Z 11s 9.40um 5.5MsZx

N 10s 6.70um

PP 13 36.00

S 16 44.00

BTO 19.66 317 iPd 13 21.00 0.4

5.0s 8600.00nm 6.3mb X

N 10s 5.20um

E 10s 6.00um

PP 13 37.50

DAV 20.03 185 eP 13 25.00 0.5

CD2 21.01 286 eP 13 33.70 -0.8

PP 13 57.00

SP 14 10.00

S 17 23.00

PJG 21.17 126 ePc 13 36.00 0.0

GUA 21.24 126 ePc+ 13 36.90 0.2

1.1s 6886.00nm 6.9mb

LZH 21.92 300 ePd 13 44.82 1.2

1.0s 1050.00nm 6.2mb

Z 10s 7.54um 5.4MsZx

ed 13 45.98 4kmX

PP 14 08.00

SP 14 19.00

eS 17 39.06

ePcP 17 43.29

esS 18 20.45

KMI 22.24 270 ePd 13 49.04 2.1

1.5s 620.00nm 5.8mb

Z 10s 4.70um 5.2MsZx

PP 14 15.00

eS 17 43.76

esS 18 25.42

HIA 22.86 347 ePd 13 51.11 -1.4

eS 17 55.60

esS 18 31.19

KKM 23.55 209 ePc 14 02.00 2.5

1.4s 930.50nm 6.0mb

TSM 24.49 203 ePc 14 11.50 3.0X

1.2s 1222.60nm 6.2mb

GTA 26.01 305 iPd 14 22.30 -0.4

1.0s 200.00nm 5.6mb

Z 40s 29.90um 5.5MsZx

N 10s 9.60um

PCT 27.21 248 eP 14 35.80 2.1

1.0s 4.80nm 4.0mb X

CHG 27.45 258 ePd 14 37.00 1.1

1.0s 219.50nm 5.7mb

eS 19 06.00

NST 27.79 251 iPc 14 44.00 5.1X

BDT 28.04 255 eP 14 42.30 1.2

KBR 29.11 249 eP 14 56.20 5.4X

KHT 29.52 251 eP 14 56.60 2.1

IRK 30.49 332 eP 15 00.50 -2.2

e 15 07.50 24kmX

e 15 20.20

e 15 27.50

e 15 31.00

e 15 42.50

ePP 15 56.50

e 16 06.20

ePPP 16 12.00

e 16 29.00

e 16 57.00

ePcP 17 48.00

e 18 12.00

e 18 33.00

e 19 04.50

e 19 09.50

e 19 38.00

eS 20 13.00

e 20 37.00

eScP 21 15.00

ePcS 21 19.00

e 21 39.00

LSA 31.92 283 iP 15 16.00 0.0

Z 10s 2.60um 5.2MsZx

SNG 32.28 237 eP 15 21.10 2.4

1.0s 120.00nm 5.7mb

eS 20 28.50

IPM 33.73 233 ePc 15 33.20 1.8

0.9s 357.90nm 6.2mb

KGM 34.03 227 ePd 15 37.10 3.2X

YAK 34.89 2 iP 15 37.00 -3.7X

ipP 15 53.00 65kmX

ePPP 16 45.00

ePPP 17 02.00

ePcP 18 08.00

eS 20 54.00

iScP 21 59.00

iPcS 22 06.00

eSS 22 58.00

eSSS 23 38.00

ePSP 25 45.00

eScS 25 59.00

WMO 35.97 308 ePd 15 50.32 0.0

Z 24s 7.60um 5.4MsZx

ed 15 51.31

epPd 16 10.68 85kmX

esPc 16 19.79

ePP 17 13.75

PcP 18 16.00

eS 21 17.85

eScP 21 53.99

SS 23 50.00

ScS 25 57.70

PSI 36.54 233 ePd 15 59.60 4.4X

MNDI 36.65 152 e(P) 16 01.00 4.7X

GUN 36.72 281 P 15 57.20 0.2

PKI 37.18 281 P 16 00.60 -0.3

KKN 37.26 281 P 16 01.40 0.0

KUPT 37.27 186 eP 15 53.00 -8.2X

0.7s 276.40nm 6.3mb

BSI 37.40 241 eP 15 52.00 -10.4X

DMN 37.44 281 P 16 03.20 0.2

TRT 37.50 205 iPc 16 01.00 -2.1

0.7s 250.30nm 6.3mb

GKN 37.79 281 P 16 05.60 -0.2

LAT 38.59 148 eP 16 12.30 0.0

RAB 39.28 139 iPc+ 16 19.00 0.9

</

NDI	0.8s	357.10nm	6.2mb	DZM	61.80	138	iPc	19	07.70	-0.6	TLB	77.66	314	ePd	20	46.50	1.9				
	44.12	284	iPd	16	57.00	-0.6	RSD	61.82	34	iP	19	07.00	-1.1	HFS	77.67	332	eP	20	42.60	-1.7	
	1.0s	430.00nm	6.2mb	COO	61.99	156	eP	19	10.00	0.6		0.9s	201.50nm	6.0mb							
		iS	23	21.00				1.0s	161.00nm	6.1mb	Z	17s	2.75um	5.6MsZ							
KSH	44.17	300	P	17	00.00	2.0				19	33.50	93kmX			LR	52	17.00				
	5.0s	3200.00nm	6.4mb	X	ADE	62.70	170	iPc	19	13.40	-0.6	MKRJ	77.71	299	Pd	20	43.48	-1.8			
		PP	17	20.00				1.0s	660.00nm	6.6mb	JVI	77.79	300	iPd	20	47.30	1.6				
		S	23	26.00		SLKM	63.06	33	iP	19	13.80	-2.3	VRI	77.92	315	ePd	20	42.50	-3.6X		
HYB	46.00	268	iPd	17	13.00	0.3	PMR	63.43	32	iPd	19	17.70	-0.8	PSN	77.96	313	eP	20	49.00	2.7X	
	1.2s	342.80nm	6.1mb					1.0s	137.60nm	5.9mb	LISJ	77.97	299	Pd	20	45.31	-1.2				
WRA	47.30	171	P	17	21.00	-1.8	COL	63.57	28	iPd	19	18.94	-0.4	YKA	78.00	25	eP	20	45.50	-0.6	
	0.7s	367.90nm	6.4mb						esPc	19	49.23			0.9s	217.90nm	6.1mb					
WB2	47.30	171	iPd	17	22.10	-0.7			iS	27	46.43		CSS	78.07	303	eP	20	47.00	-0.1		
	0.7s	361.70nm	6.4mb						esS	28	24.83		NB2	78.17	334	P	20	45.30	-1.9		
		e	17	44.90	95kmX	FBA	63.57	28	iPd	19	19.20	-0.2	HRT	78.21	310	iP	20	47.00	-0.8		
		e	19	17.40				0.6s	150.10nm	6.1mb	CVO	78.29	316	ePd	20	48.50	0.4				
		i	22	38.20		TOA	64.73	31	iPd	19	27.70	0.7	GBZT	78.37	310	eP	20	48.40	-0.2		
		i	24	06.10				0.8s	380.20nm	6.4mb	ISK	78.51	310	iP	20	49.50	0.1				
SVO	47.84	134	eP	17	26.00	-1.1	KLU	64.96	32	P	19	28.00	-0.6	YLV	78.52	310	iP	20	49.50	0.0	
VSG	47.85	135	eP	17	27.00	-0.2	MID	65.16	34	eP	19	31.70	2.0	ITU	78.53	310	iPd	20	48.00	-1.4	
HNR	48.14	135	eP	17	28.00	-1.4	CNB	65.50	160	ePd	19	33.00	0.8	MLR	78.58	315	ePd	20	52.00	2.1	
ADK	48.25	43	ePd	17	28.80	-1.0		0.3s	68.00nm	6.1mb	MOL	78.65	336	eP	20	49.61	-0.1				
	0.6s	79.80nm	5.8mb						e	19	58.00	99kmX	PPCY	78.83	303	eP	20	51.00	-0.2		
GBA	48.46	264	Pc	17	33.20	1.3	BFD	65.55	167	iPc	19	31.10	-1.3	CTT	78.91	311	iP	20	51.50	0.0	
	1.1s	421.80nm	6.3mb					1.0s	140.00nm	5.8mb	BCK	79.01	306	iP	20	51.00	-1.3				
MBL	48.59	189	eP	17	32.20	-0.5	TOO	66.58	164	iPc	19	39.40	0.3	MBH	79.05	298	iPd	20	54.20	1.5	
		i	17	33.50	4kmX			1.3s	413.00nm	6.2mb	DMK	79.06	311	iP	20	52.00	-0.4				
QIS	48.88	165	iPc	17	34.50	-0.5	BALM	66.75	32	iP	19	39.20	-0.8	HQL	79.13	297	ePd	20	54.30	1.4	
	0.6s	65.00nm	5.8mb				VUN	66.82	126	ePc	19	41.20	0.3	WAJH	79.21	294	iPd	20	42.90	-10.5X	
		i	17	58.00	98kmX	TAB	67.19	302	eP	19	44.00	0.7	MTUR	79.25	315	ePd	20	56.50	3.0X		
POO	49.80	272	iPd	17	41.00	-1.3	OPA	67.21	77	P	19	43.00	-0.4	KCT	79.35	310	iP	20	52.00	-2.0	
	1.1s	341.77nm	6.3mb				DHR	67.90	289	iPd	19	48.20	0.5	KHL	79.39	308	iP	20	53.40	-1.0	
		iS	24	40.00		K8S	68.21	349	eP	19	48.50	-0.3	DST	79.45	309	eP	20	53.80	-0.8		
KOD	49.88	260	iPd	17	44.50	1.3	KEV	68.31	338	eP	19	48.00	-1.5	JMB	79.55	312	iPd	20	55.00	0.0	
	0.8s	73.13nm	5.8mb					0.7s	61.40nm	5.6mb	TNR	79.55	316	ePd	20	56.00	1.1				
		eS	24	49.00					e	20	20.00	130kmX	BNT	79.60	310	iP	20	55.50	0.2		
CTA	50.38	157	iPc+	17	46.10	-0.4			e	22	16.00		KONO	79.64	333	ePd	20	55.52	0.4		
	1.2s	601.56nm	6.5mb						e	24	04.00		EDC	79.65	310	iP	20	55.00	-0.6		
		i	18	11.20	105kmX	INK	68.33	23	iPd	19	49.00	-0.6	COZ	79.66	316	ePd	20	58.50	2.8X		
		iS	24	54.00			0.6s	375.00nm	6.5mb			ELL	79.81	306	iP	20	55.50	-1.2			
BOM	50.60	273	iP	17	47.60	-0.7		pP	20	14.00	98kmX	NGZ	79.85	144	eP	20	56.70	0.0			
		eS	24	42.80		08N	68.64	322	iP	19	50.00	-1.8	DRA	80.02	315	eP	21	01.00	3.6X		
ASPA	50.91	172	eP	17	50.20	-0.3		1.4s	360.00nm	6.1mb	PVL	80.02	313	iPd	20	58.00	0.6				
	1.1s	301.80nm	6.2mb				Z	22s	7.70um	5.9MsZ	HYA	80.03	335	iPc	20	57.29	0.2				
		i	18	13.50	96kmX		N	22s	3.30um		FRO	80.13	336	eP	20	57.54	-0.1				
		iS	24	54.60			E	22s	4.90um		FOO	80.18	336	eP	20	57.75	-0.1				
		iScS	27	29.70					iPp	20	16.00	102kmX	SPC	80.21	320	iPd	20	58.50	-0.1		
QUE	52.60	288	iPc	18	04.00	0.5			e	20	48.00		DEV	80.28	317	ePc	20	59.00	0.2		
		ePcS	23	01.30					ePP	22	24.00		DIM	80.43	312	eP	21	01.00	1.3		
		eS	25	21.60					ePPP	24	02.00		THZ	80.44	147	eP	20	58.20	-1.4		
		eScS	27	45.10					iS	28	44.00		MSZ	80.48	152	eP	21	00.60	0.9		
MEKA	54.14	190	iPc	18	14.00	-0.4			ePS	29	18.00		SUE	80.63	335	iPc	21	00.64	0.3		
OLP	55.83	162	eP	18	25.00	-1.7			eScS	29	40.00		QDD1	80.66	334	iPc	21	00.84	0.3		
		i	18	49.00	98kmX				eSS	33	05.00		KDZ	80.69	312	eP	21	01.00	-0.1		
ANM	56.05	29	iPd	18	28.60	0.7	SOD	69.27	336	iP	19	53.40	-2.0	KIW	80.75	145	eP	21	01.00	-1.2	
MRWA	57.11	192	iPd	18	31.80	-4.0X	TRO	70.96	339	eP	20	04.54	-1.1	YER	80.80	307	iP	21	01.00	-0.8	
RMO	57.15	157	iPc	18	34.00	-2.1	KAF	71.34	331	iP	20	06.30	-1.8	ASK	80.84	335	iPd	21	01.51	0.1	
	1.2s	315.00nm	6.3mb					0.9s	210.40nm	6.0mb	RDO	80.85	312	iPd	21	02.00	0.1				
MAIO	57.45	297	iPd-	18	39.00	0.7			71.41	35	eP	20	11.00	2.4	BER	80.86	335	eP	21	01.54	0.0
	1.2s	169.44nm	6.0mb				SIT	1.1s	334.20nm	6.2mb	MNG	80.86	145	P	21	00.40	-1.4				
		e	26	32.00					71.45	289	iPd	20	09.80	0.4	LTZ	80.92	148	eP	21	01.50	-0.6
FORR	57.68	179	iPd	18	48.90	9.2X	RYD	71.72	117	ePc	20	10.23	-0.9	MRW	80.92	146	eP	21	01.80	-0.2	
	0.4s	93.00nm	6.2mb				AFI	72.09	165	ePc	20	13.19	0.6	EZN	80.94	310	iP	21	02.20	-0.1	
COOL	58.02	186	iPc	18	40.80	-1.4	TAU	72.32	330	eP	20	14.90	-1.3	IZM	80.95	308	iP	21	02.30	-0.2	
SDN	58.05	40	eP	18	40.80	-1.3	NUR	73.39	339	iPc	20	18.82	-1.2	PLD	80.95	313	eP	21	02.00	-0.4	
BAL	58.34	191	iPc	18	43.50	-0.9	LOF	73.68	308	iP	20	21.80	-0.5	EGD	80.97	335	iPc	21	02.10	0.0	
	0.9s	288.00nm	6.4mb				KVT	74.30	304	iP	20	26.90	1.0	SNZ0	80.98	146	P	21	04.00	1.7	
BRS	59.46	154	iP-	18	41.80	-10.4X	GAZ	74.93	285	iPd	20	20.40	-9.4X			PP	24	08.00			
		i(pP)	19	10.30	117kmX	KMSA	75.16	309	ePd	20	30.80	0.0	CAW	81.01	146	eP	21	01.30	-1.3		
		i(sP)	19	17.00		KAS	75.89	336	eP	20	33.59	-0.8	PSZ	81.06	320	iP	21	02.80	-0.2		
		e(S)	25	30.00		NSS	75.91	299	Pd	20	33.97	-1.3	PGB	81.09	313	eP	21	04.00	0.8		
MUN	59.77	191	iPd	18	54.00	-0.2	SHBJ	76.13	331	iPd	20	34.00	-1.8	WDW	81.09	146	eP	21	01.50	-1.5	
BRW	60.00	21	iPd	18	55.20	-0.2	UPP		iS	30	09.00		RZN	81.14	312	eP	21	04.00	0.3		
TTA	60.11	31	iPd	18	56.70	0.3							BZS	81.20	317	eP	21	02.50	-1.1		
	0.9s	183.70nm	6.2mb				BBTK	76.47	308	eP	20	38.00	-0.3	PRK	81.24	310	iPd	21	04.00	0.0	
STK	60.24	166	iPc	19	16.00	18.6X	HRI	76.94	301	iPd	20	42.50	1.5	KHZ	81.24	147	eP	21	02.10	-1.6	
	1.1s	100.70nm	6.6mb				CSTJ	77.20	300	Pd	20	40.68	-1.8		1.0s	199.00nm	6.0mb				
SVW	60.36	33	iPd	18	59.00	0.9	JARJ	77.21	299	Pd	20	40.74	-1.8	MMCZ	81.26	151	eP	21	05.00	1.1	
	0.8s	397.10nm	6.6mb				MDSJ	77.29	284	ePd	20	43.00	-0.4	MOW							

14d 08h

VTS	81.69	314	eP	21	07.00	0.6	VLI	84.77	309	eP	21	20.50	-1.6	EAB	87.44	335	ePd	21	35.40	0.6
HLW	81.78	299	iP-	21	07.50	0.5	VGB	84.83	41	P	21	23.20	0.9		1.1s	246.00nm			6.2mb	
BUD	81.79	319	iP	21	07.00	0.4	GRF	84.85	324	iPd	21	23.20	0.9	WLF	87.45	326	iPd	21	35.29	0.4
MOZ	81.81	149	Pd	21	06.50	-0.1		1.5s	1711.00nm				6.8mb		id			21	35.71	1kmX
MMB	81.84	313	eP	21	07.00	-0.1	Z	23s	3.00um				5.6MszX	SLE	87.46	324	ePd	21	34.90	-0.2
MCW	81.93	39	P	21	07.80	0.4			e(SKS)	31	37.30			ARV	87.55	318	Pd	21	36.20	0.5
SRO	82.02	320	iP	21	08.40	0.6			e(S)	31	46.60			UCC	87.57	328	Pd-	21	35.80	0.3
KKB	82.12	313	iPc	21	09.00	0.5	VBV	85.05	319	ePd	21	23.60	0.3		pPP	25	43.00			
BRN	82.24	326	iPd	21	10.50	1.6	BHG	85.13	322	iPd	21	24.60	0.9		SKS	31	54.00			
BEO	82.31	317	eP	21	08.50	-0.9		1.0s	581.00nm				6.5mb	RSM	87.59	319	P	21	37.00	1.3
ZST	82.51	321	iPd	21	10.40	0.0	LJU	85.16	320	ePd	21	23.50	-0.4	EKA	87.63	334	Pc	21	35.80	0.0
GMW	82.56	40	P	21	11.20	0.5			eS	31	37.00				1.0s	177.80nm			6.1mb	
VAY	82.73	313	iPd	21	11.40	-0.3	WIT	85.17	328	iPd	21	20.80	-2.9X	TDS	87.64	314	Pd	21	36.70	0.6
	1.3s	280.00nm				6.0mb	KBA	85.24	321	iPd	21	24.30	-0.2	FEL	87.64	324	P	21	35.74	-0.4
		i	21	13.20		6kmX		1.3s	42.10nm				5.3mb	WLS	87.64	325	P	21	36.07	0.0
BMW	82.87	41	P	21	13.00	0.6			id	21	24.80		2kmX	ESK	87.66	334	iPd	21	35.50	-0.4
VKA	82.91	321	iPd	21	13.20	0.7			i	21	46.20				1.0s	260.00nm			6.3mb	
		ic	21	14.30		4kmX			i	24	44.90			CDF	87.68	325	P	21	36.26	0.0
		i	21	25.60					i	25	09.20			SAL	87.68	321	Pd	21	36.50	0.3
		e	31	13.00			NEW	85.31	37	iPd	21	25.60	1.0	DUI	87.70	316	Pd	21	36.90	0.4
		e	31	26.50				1.0s	190.00nm				6.1mb	ORV	87.70	46	ePd	21	36.80	0.4
PRU	82.93	323	ePd	21	12.70	0.2			e	21	42.50		60kmX	VDL	87.73	322	ePd	21	37.00	0.3
	1.4s	410.00nm				6.2mb	KEK	85.36	312	iPd	21	24.60	-0.4	LLS	87.75	323	ePd	21	36.70	-0.1
Z	18s	2.60um				5.6Msz	CEY	85.39	320	iPd	21	24.90	-0.2	SGO	87.79	315	P	21	37.20	0.4
N	18s	1.30um					FHC	85.42	46	ePd	21	27.70	2.4	SNF	87.80	328	Pd	21	36.70	0.1
E	18s	1.60um					VOY	85.53	320	iPd	21	25.30	-0.6	ECH	87.87	325	P	21	36.93	-0.2
		i	21	13.60		3kmX	WTS	85.63	328	iPd	21	21.90	-4.1X	MGR	87.87	315	P	21	36.50	-0.7
		eS	31	26.00				1.0s	199.00nm				6.1mb	DOU	87.93	327	P-	21	37.00	-0.3
		e	32	36.00			HVAR	85.63	317	iPd	21	25.80	-0.5		1.0s	236.10nm			6.2mb	
CLL	82.98	325	iPd	21	12.90	0.2	VLS	85.64	311	iPd	21	25.80	-0.6			e	22	10.00	128kmX	
	1.6s	710.00nm				6.3mb	RIY	85.64	319	iPd	21	26.30	0.1			SKS	31	58.00		
Z	18s	4.00um				5.8Msz	FUR	85.73	323	iPd	21	27.50	0.8			S	32	39.00		
		i	21	46.00		130kmX		1.2s	1626.00nm				6.9mb	AQU	87.94	317	Pd	21	38.30	0.7
		eSKS	31	23.00			TRI	85.79	320	P	21	26.60	-0.4	SFI	87.94	319	Pd	21	38.80	1.4
RMW	83.17	40	P	21	14.90	1.0	FVI	85.84	321	Pd	21	26.50	-0.7	PGD	88.04	319	Pd	21	39.50	1.3
PNT	83.35	37	iPd	21	15.10	0.4	WATA	86.07	322	iPd	21	28.10	-0.5	GRI	88.05	313	P	21	38.81	0.6
	1.1s	5.00nm				4.4mb X		1.1s	477.00nm				6.4mb		0.8s	126.60nm			6.1mb	
LON	83.55	40	ePd	21	16.32	0.5			i	21	46.00		64kmX	CRE	88.06	319	Pd	21	38.70	0.5
NPS	83.59	306	eP	21	16.00	-0.2	WTTA	86.08	322	iPd	21	28.40	-0.2	SDI	88.07	317	Pd	21	38.20	0.0
SHW	83.61	41	P	21	17.20	0.9		1.2s	831.00nm				6.6mb	FFC	88.09	26	iPd	21	38.60	0.6
ATH	83.61	309	iPd	21	16.00	-0.2			i	21	36.60		26kmX		1.1s	586.00nm			6.6mb	
IYA	83.65	315	iPd	21	17.29	0.8	BNS	86.11	327	iPd	21	28.90	0.4	MOF	88.12	324	P	21	38.11	-0.3
PLE	83.73	316	iPd	21	18.05	1.1		1.7s	792.00nm				6.5mb	BRK	88.13	48	eP	21	39.90	1.4
AKU	83.74	346	P	21	17.20	0.9	EDR	86.23	335	ePd	21	29.50	0.5	AZI	88.13	317	P	21	39.20	0.8
	1.4s	1302.33nm				6.7mb		0.6s	175.00nm				6.3mb	BKS	88.14	48	eP	21	40.00	1.4
PVY	83.75	315	iPc	21	17.95	0.9	LCI	86.23	314	P	21	28.90	-0.4		1.0s	109.00nm			5.9mb	
KZN	83.76	312	iPd	21	16.00	-1.1	MOTA	86.32	322	iPd	21	29.60	-0.2			eS	32	12.00		
COR	83.84	43	ePd	21	18.77	1.5		1.0s	367.00nm				6.4mb			eSS	38	10.00		
		iS	31	34.38					i	21	51.40		80kmX	BBS	88.17	324	P	21	38.35	-0.2
		esS	32	16.59			DBN	86.33	328	eP	21	29.00	-0.5	RFI	88.20	316	P	21	39.41	0.7
GDH	83.88	0	iPd	21	18.20	1.3		Z	16s	4.00um			5.9MszX		1.9s	3493.30nm			7.2mb	
	0.3s	922.08nm				7.2mb X			eS	31	59.00			PCC	88.25	48	eP	21	39.50	0.4
		i	31	32.00			SQTA	86.34	322	iPd	21	29.70	-0.1	BSF	88.30	325	P	21	38.83	-0.5
KHC	83.93	323	iPd	21	17.70	0.0		1.2s	591.00nm				6.5mb	MNS	88.36	318	Pd	21	39.20	-0.4
	1.0s	207.00nm				6.1mb			i	21	40.70		35kmX	FIR	88.37	319	eP	21	40.00	0.5
N	22s	1.40um							i	21	52.70				iS	31	56.00			
E	20s	3.10um					BRT	86.42	315	P	21	29.90	-0.3	HAU	88.42	325	eP	21	38.50	-1.3
		e	21	28.90		36kmX	LBFM	86.46	45	P	21	31.00	0.3		1.1s	171.70nm			6.1mb	
OHR	83.99	313	iPd	21	17.40	-0.8	STU	86.47	324	iPd	21	30.20	-0.1	Z	20s	4.00um			5.8Msz	
	1.2s	670.00nm				6.5mb		1.0s	300.00nm				6.3mb	MME	88.44	320	P	21	41.20	1.0
		i	21	28.00		34kmX		Z	20s	1.42um			5.4Msz	VITF	88.47	325	P	21	39.65	-0.2
		i	21	38.40			WDC	86.47	46	ePd	21	31.30	0.8	VAI	88.50	322	Pd	21	39.30	-0.8
MOX	84.08	325	iPd-	21	18.80	0.4	ABH	86.61	326	eP	21	31.05	0.0	FRB	88.53	7	eP	21	38.00	-1.9
	1.8s	858.00nm				6.4mb	OGA	86.65	322	iPd	21	31.60	0.1		0.5s	164.00nm			6.4mb	
Z	18s	3.60um				5.8Msz	EDU	86.68	335	ePd	21	31.90	0.7	BDI	88.58	320	Pd	21	40.50	-0.2
N	20s	4.00um						1.0s	819.00nm				6.8mb	LOMF	88.59	324	P	21	39.98	-0.7
E	20s	3.60um					CTI	86.79	321	Pd	21	31.40	-0.7	RMP	88.68	317	Pd	21	41.00	-0.1
		iPP	21	50.00		121kmX	ENN	86.84	327	iPd	21	32.30	0.3	GCC	88.77	49	eP	21	42.80	1.2
		iSKS	31	35.00				0.9s	159.00nm				6.1mb	GMB	88.78	313	P	21	42.06	0.3
HOF	84.14	324	eP	21	19.00	0.3	MEM	86.91	327	iPd	21	32.11	-0.2		1.1s	596.20nm			6.7mb	
	1.0s	541.00nm				6.5mb	ESY	86.99	334	eP	21	33.10	0.4	BOB	88.80	321	Pd	21	42.10	0.4
EDM	84.20	32	iPd	21	20.00	1.0	ELO	87.00	335	ePd	21	33.20	0.5	MMK	88.82	323	ePd	21	42.20	0.2
KMR	84.24	322	iP-	21	20.00	0.8		1.1s	215.00nm				6.2mb	MHC	88.83	48	eP	21	43.50	1.4
		e	31	21.00			EBH	87.09	335	ePd	21	33.60	0.4	ARN	88.90	48	P	21	43.00	0.7
NKY	84.25	315	iPd	21	20.15	0.6		1.1s	201.00nm				6.1mb	ATN	89.04	313	P	21	41.80	-1.1
TTG	84.29	315	iPd	21	19.69	0.2	SES	87.11	33	iPd	21	34.00	0.6	ORO	89.08	322	P	21	41.80	-1.2
WET	84.30	323	iPd	21	19.90	0.4		0.8s	304.00nm				6.4mb	DIX	89.10	323	ePd	21	43.40	0.1
PTJ	84.42	319	eP	21	20.00	-0.3	GWf	87.15	325	P	21	33.94	0.3	MAO	89.25	318	P	21	43.50	-0.3
ZAG	84.45	319	iPd	21	20.50	0.2	MIN	87.19	46	eP	21	34.50	0.3	CMB	89.27	47				

PRS	89.57	49	eP	21	46.80	1.4	1.1s	45.00nm	5.8mb	GIBL	102.71	323	ePdiff22	47.00	1.9					
LSD	89.63	323	P	21	46.26	0.4	ISA	91.88	48	eP	21	57.00	0.8	PLAT	103.13	323	ePdiff22	47.50	0.5	
CKI	89.67	321	Pd	21	45.10	-0.6	PAE	91.91	109	iP	22	00.00	3.7X	GAC	104.56	16	ePdiff22	56.00	3.0X	
MNO	89.67	313	P	21	45.20	-0.9		1.1s	35.00nm	5.7mb	IFR	104.71	320	iPdiff22	50.00	-4.2X				
RSL	89.77	323	P	21	45.90	-0.5	PPN	91.98	109	iP	22	00.30	3.7X	LSZ	104.88	260	iPdiff22	55.00	-0.3	
RSP	89.77	322	P	21	44.52	-1.8		1.1s	30.00nm	5.6mb	TUL	105.20	35	Pdiff	22	48.50	-7.6X			
LPL	89.82	323	eP	21	46.20	-0.5	LPF	92.03	328	eP	21	55.80	-0.7		0.8s	5.00nm	5.6mb			
LPG	89.83	323	eP	21	46.30	-0.5	LSF	92.04	326	eP	21	55.40	-1.2	SLR	108.88	250	iPdiff23	15.00	2.1	
	0.7s	94.75nm	6.1mb					0.8s	36.25nm	5.8mb		1.0s	20.00nm	6.3mb						
FIN	89.84	321	P	21	45.64	-0.9	PTS	92.08	314	P	21	57.90	1.0		i	27	19.00			
BHB	89.97	322	P	21	45.03	-2.1	PMO	92.12	106	iP	22	00.50	3.2X	PPM	115.95	49	(PKP)	27	34.50	2.8X
ROB	89.98	321	P	21	46.36	-0.9		1.1s	65.00nm	5.9mb	SPA	117.00	180	iPKPd	27	32.90	1.1			
MEU	89.99	312	P	21	48.20	0.8	TVO	92.25	109	iP	22	01.80	3.9X		1.0s	23.50nm				
PZI	90.04	312	P	21	46.11	-1.5		1.1s	45.00nm	5.8mb		i	31	07.50						
	1.2s	231.50nm	6.3mb				TPT	92.35	106	iP	22	01.70	3.4X	KIC	122.99	299	PKP	27	44.56	-0.1
BNI	90.15	322	Pd	21	48.30	0.2		1.1s	45.00nm	5.8mb	TIC	123.03	299	PKP	27	44.40	-0.3			
LOR	90.17	325	eP	21	46.60	-1.4	CLC	92.37	48	eP	22	00.00	1.6	LIC	123.30	299	PKP	27	45.00	-0.2
	0.9s	44.20nm	5.7mb			VAH	92.46	106	iP	22	02.00	3.2X	UPA	135.58	40	ePKPc	28	09.10	0.4	
Z	19s	5.00um	6.0msz				1.1s	30.00nm	5.6mb		e	30	44.00							
RRL	90.18	322	P	21	47.80	-0.6	MFF	92.62	327	eP	21	58.50	-0.7		i	42	52.00			
DOI	90.19	322	P	21	46.00	-2.2		1.1s	114.75nm	6.2mb	NNA	152.69	61	ePKP	28	39.20	1.6			
USI	90.20	314	P	21	48.00	-0.2	RUV	92.65	106	iP	22	03.00	3.3X		1.1s	18.99nm				
IMI	90.21	321	P	21	47.69	-0.6		1.1s	30.00nm	5.6mb	CAI	154.77	322	ePKP	28	44.90	4.5X			
PZZ	90.27	322	P	21	46.67	-2.0	CAF	92.68	325	eP	21	59.10	-0.5	ARE	159.50	63	ePKP	28	48.00	1.5
ENR	90.27	321	P	21	46.46	-2.1	DUG	92.70	42	P	22	01.00	1.1	PDCR	160.74	316	ePKP	28	47.80	0.3
LBF	90.30	325	eP	21	47.30	-1.3	RJF	92.70	325	eP	21	59.00	-0.7		i	29	29.80			
	1.2s	110.10nm	6.0mb				1.1s	146.50nm	6.3mb		e	33	12.00							
FRI	90.30	48	eP	21	50.10	1.4	Z	21s	5.00um	5.9msz	BMA	171.16	298	ePKP	28	58.40	2.9X			
HPI	90.31	39	P	21	51.00	1.9	BW06	92.89	38	iPd	22	00.80	-0.1		e	30	16.60			
STV	90.31	322	P	21	46.67	-2.1		1.0s	60.00nm	5.9mb		e	30	19.90						
SAOF	90.35	321	P	21	48.42	-0.5	VAL	92.94	335	iP	22	29.00	106kmX	VAO	173.44	308	ePKP	28	58.10	1.6
AUTN	90.41	321	P	21	49.03	-0.4	PAS	92.96	49	eP	22	03.00	1.9		e	30	26.40			
PGF	90.43	319	P	21	49.79	0.4	MWC	93.00	49	eP	22	03.00	1.5	PPD	174.77	347	ePKP	28	59.30	2.4
SSF	90.49	325	eP	21	48.30	-1.1	GSC	93.20	48	eP	22	04.00	1.8		e	30	32.40			
	1.2s	92.25nm	5.9mb					e	25	07.00			S.D. = 1.0	on 473 of 525 obs.						
SBF	90.49	321	eP	21	48.80	-0.8							APR 14, 1991 08h 18m 33.48±0.56s							
TOUF	90.50	321	P	21	49.37	-0.4	BST	93.22	330	P	21	54.05	-7.9X	5.491 S ± 8.0km	76.813 W ± 11.7km					
MCT	90.53	313	P	21	51.10	1.1	LPO	93.30	325	eP	22	01.70	-0.7	DEPTH = 14.9km (2 depth phases)						
AURF	90.54	321	P	21	49.63	-0.2		0.9s	36.05nm	5.8mb			4.7mb (2 obs.)	4.5msz (1 obs.)						
GRC	90.55	326	P	21	49.87	0.2	LFF	93.35	325	eP	22	02.10	-0.5	NORTHERN PERU	(111)					
SMF	90.60	325	eP	21	48.70	-1.3		1.2s	130.90nm	6.2mb										
REVF	90.61	321	P	21	49.72	-0.4	DAU	93.47	41	P	22	04.00	0.3	VC1	5.08	342	iPd	19	50.80	-0.5
MEVIF	90.63	321	P	21	50.15	-0.2	RVR	93.59	49	eP	22	03.00	-0.9	ANGL	5.12	352	eP	20	07.00	15.2X
BONR	90.66	46	P	21	52.00	1.2	PEC	93.79	49	ePd	22	05.50	0.6	QUIL	5.15	336	eP	19	54.00	1.7
FAI	90.71	313	P	21	51.60	1.0	MSU	94.14	43	P	22	07.90	1.2	YANA	5.62	342	eP	19	58.30	-0.7
AVF	90.75	325	eP	21	49.50	-1.1	PLM	94.31	49	ePd	22	08.00	0.5	CAYA	5.66	348	P	19	50.80	-8.7X
ETA	90.80	334	iPd	21	50.40	-0.3	BAR	94.84	50	eP	22	11.00	1.2		eS	21	29.50			
CALN	90.87	321	P	21	51.09	-0.3	RSSD	94.87	34	iPd	22	09.80	-0.2	COTA	5.98	345	eP	20	06.70	2.6
BCH	91.08	49	P	21	53.40	0.9		1.0s	96.26nm	6.2mb	ARE	12.09	155	eP	21	35.00	6.6X			
NAI	91.12	269	iPDIF	21	55.20	2.0					ZOBO	13.69	142	eP	21	50.00	0.0			
		PP	22	28.00			EPF	94.89	324	eP	22	08.70	-1.1		i	22	00.00			
		PP	25	34.00			BTH	95.11	324	eP	22	09.00	-1.8	LPB	13.91	143	eP	21	55.00	2.3
		SKS	32	27.00				e	22	18.00	28kmX			i	22	03.80				
		PPS	34	44.00				eP	22	24.50		CNCB	14.19	143	eP	21	57.00	0.4		
FRF	91.13	321	eP	21	51.70	-0.7		sP	22	49.00			i	22	06.60					
SSB	91.15	324	P	21	52.08	-0.5		ePP	26	02.50		SDV	15.55	23	eP	22	14.80	0.7		
BGF	91.17	325	eP	21	51.40	-1.2		esPP	26	43.00		TOV	16.71	25	eP	22	28.00	-0.8		
PLDF	91.17	325	P	21	52.53	-0.1		SKS	32	38.00		OLLA	18.35	33	eP	22	48.70	-0.6		
LDF	91.20	328	eP	21	51.70	-1.0		S	33	20.00		SIV	18.64	125	P	22	51.60	-1.2		
FLN	91.25	329	eP	21	51.90	-1.0		ePPS	35	28.00		VAO	33.64	124	e(P)	25	15.00	-0.9		
	0.9s	88.45nm	6.1mb				P'P'	47	16.00		PDCR	37.84	103	(P)	25	52.00	0.4			
Z	22s	4.50um	5.9msz								TUL	44.87	338	ePKP	26	50.50	1.4			
ECP	91.26	334	iPd	21	52.30	-0.5	GLA	95.86	48	eP	22	16.00	1.5		0.6s	4.20nm	4.5mb			
ECB	91.28	334	iPd	21	52.80	-0.1	PV09	95.97	41	P	22	17.00	1.8	Z	21s	0.56um	4.5msz			
TNP	91.28	46	eP	21	53.70	0.2	EBR	96.35	322	eP	22	16.00	-0.4		e	27	15.10	105kmX		
	1.0s	57.50nm	5.9mb					eS	32	44.00		ANMO	48.96	327	P	27	21.40	-0.1		
LMR	91.35	321	eP	21	52.90	-0.5	GOL	97.29	38	ePd	22	21.50	0.4		e	27	25.90	15km		
LRG	91.35	321	eP	21	53.10	-0.3		1.0s	8.75nm	5.2mb										
	1.0s	250.00nm	6.5mb				GLD	97.34	38	ePd	22	24.00	2.8X	GOL	52.11	332	P	27	44.60	-1.0
Z	22s	8.75um	6.2msz				SCH	97.46	8	ePd	22	20.30	-0.9	TNP	57.33	323	P	28	22.40	-1.2
AGO	91.36	325	P	21	53.24	-0.3		1.1s	139.00nm	6.4mb										
SYF	91.53	50	eP	21	58.00	3.4X	TOL	99.45	324	ePd	22	30.66	0.1	SES	63.02	336	eP	29	02.00	-0.1
MAF	91.54	325	eP	21	53.60	-0.7		ePP	26	26.85		NEW	64.12	331	P	29	07.80	-1.6		
	1.0s	63.00nm	5.9mb				i	27	08.24			pP	29	12.40	15km					
CDR	91.54	322	ePd	21	54.40	0.1	ANMO	99.94	42	ePd	22	33.76	0.6	PNT	66.04	331	eP	29	21.00	-0.7
PYM	91.63	325	P	21	54.60	-0.2		1.1s	34.81nm	5.9mb										
TCF	91.67	325	eP	21	54.10	-0.8			e	23	08.02	132kmX	INK	83.40	342	eP	31	05.50	4.4X	
	1.1s	78.15nm	6.0mb					ePP	26	31.00		WB2	140.27	230	ePKP	37	55.10	-9.4X		
AFR	91.69	109	iP	21	59.00	3.8X		i	27	21.20			0.8s	2.20nm						
	1.1s	75.00nm	6.0mb				eSKS	33	02.10		WRA	140.28	230	PKP	37	56.00	-8.5X			
GRR	91.69	328	eP	21																

14d 08h

GBA 153.38 71 PKPd 38 34.00 8.3X
0.4s 2.80nm
S.D. = 1.2 on 22 of 33 obs.

% APR 14, 1991 08h 27m 39.91± 1.16s
41.065 N ±13.1km 22.471 E ± 6.6km
DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)

GRG 0.12 206 ePd 27 43.06 0.1
eS 27 45.74
KNT 0.34 73 iPd 27 46.74 -0.1
eS 27 51.62
THE 0.57 139 ePc 27 51.14 -0.4
eS 27 58.74
SOH 0.71 110 ePd 27 54.38 0.4
FNA 0.88 252 ePd 27 56.74 0.0
eS 28 08.30
S.D. = 0.4 on 5 of 5 obs.

% APR 14, 1991 08h 42m 39.30s
33.870 N 116.150 W
DEPTH = 3.0km (geophysicist)
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.4 (PAS).

TPC 0.25 20 iPd 42 44.40 0.1
PLM 0.79 229 iPd 42 54.30 -0.7
PEC 0.84 272 iPd 42 55.00 -1.1
IKP 1.22 178 ePc 43 00.70 -2.0
BAR 1.26 200 eP 43 01.90 -1.5
CPE 1.27 219 ePd 43 02.10 -1.4
GLA 1.37 126 eP 43 03.00 -2.3
GSC 1.53 339 ePc 43 06.50 -1.1
SBB 1.61 301 ePc 43 07.50 -1.3
9 obs. associated

? APR 14, 1991 08h 51m 15.94± 0.94s
39.096 N ± 8.1km 27.502 E ± 9.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.5 (ISK).

IZM 0.72 195 iPg 51 30.10 -0.1
eSg 51 41.30
DST 1.01 59 ePn 51 35.30 0.2
EZM 1.17 309 ePn 51 38.00 0.3
KGT 1.36 354 ePn 51 40.50 -0.4
S.D. = 0.6 on 4 of 4 obs.

? APR 14, 1991 08h 52m 18.30± 4.23s
40.609 N ±13.7km 22.989 E ± 8.2km
DEPTH = 5.0km (geophysicist)
GREECE (364)

THE 0.03 321 iP 52 19.96 0.4
eS 52 21.00
SOH 0.35 52 ePc 52 25.32 0.0
eS 52 30.52
KNT 0.56 353 ePc 52 29.32 -0.1
eS 52 37.08
GRG 0.57 308 ePd 52 29.24 -0.4
eS 52 38.04
S.D. = 0.6 on 4 of 4 obs.

* APR 14, 1991 09h 14m 43.99± 2.29s
11.195 S ±12.6km 166.488 E ±17.3km
DEPTH = 139.5 ± 21.4 km
4.6mb (3 obs.)
SANTA CRUZ ISLANDS (184)

HNR 6.67 285 eP 16 19.00 -1.8
eS 17 35.00
SVO 6.88 287 eP 16 23.00 -0.6
eS 17 40.00
VSG 6.94 286 eP 16 27.00 2.5
eS 17 44.00
DZM 10.81 180 iPd 17 15.90 -0.3
iS 19 14.00
BRS 20.63 217 iP 19 15.80 1.6
RMO 22.61 225 iPd 19 33.50 -0.1
COO 23.57 213 iPd 19 45.40 2.4
CMS 27.79 220 eP 20 22.00 0.1
i 20 26.10
MNG 30.36 166 P 20 43.80 -0.9
PGZ 30.55 165 eP 20 45.40 -0.9
LTZ 31.87 172 eP 20 58.10 0.3

WB2 32.11 250 iPd 20 58.80 -1.3
0.6s 19.90nm 5.1mb
e 21 49.80
ASPA 33.38 244 iPd 21 09.40 -1.8
0.9s 11.30nm 4.6mb
FBA 83.24 18 P 26 56.90 1.3
e 27 26.00
YKA 94.77 27 eP 27 50.00 -0.4
0.5s 0.40nm 4.0mb
S.D. = 1.6 on 15 of 15 obs.

% APR 14, 1991 09h 24m 32.80± 0.67s
40.785 N ± 6.2km 29.619 E ± 5.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

HRT 0.05 46 iPg 24 34.50 -0.5
GBZT 0.13 272 ePg 24 35.00 -1.0
iSg 24 37.60
YLV 0.29 221 iPg 24 39.00 0.1
iSg 24 44.00
IZI 0.46 194 iPg 24 42.00 -0.2
EYL 0.46 118 iPg 24 42.50 0.2
CTT 0.97 292 ePn 24 51.50 0.2
DMK 1.74 307 ePn 25 04.00 0.7
S.D. = 0.7 on 7 of 7 obs.

APR 14, 1991 09h 32m 18.21± 0.95s
33.163 S ±11.0km 69.493 W ± 7.6km
DEPTH = 10.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

MDZ 0.61 63 iP 32 29.10 -1.4
PCH 0.97 242 iPd 32 36.60 -0.1
iS 32 50.60
PEL 1.00 271 iP 32 36.90 -0.3
iS 32 49.50
SAN 1.02 253 iPd 32 37.30 -0.2
iS 32 51.70
JACH 1.04 297 iPd 32 36.70 -1.2
iS 32 50.10
ROCH 1.29 278 iPd 32 41.80 -0.5
iS 32 59.30
TACH 1.30 248 iPd 32 42.20 -0.1
iS 33 00.10
RTBS 1.50 1 iPd 32 44.80 -0.3
ZON 1.75 23 eP 32 50.00 1.1
eS 33 08.00
LCCH 1.77 259 iPd 32 50.00 1.0
i 33 15.00
IHA 1.81 274 iP 32 51.00 1.4
eS 33 14.20
CFA 1.88 35 ePc 32 52.00 1.3
eS 33 16.20
RTLL 2.02 26 ePc 32 53.90 1.1
S 33 21.20
CCH 16.00 12 P 36 11.90 6.6X
CNCB 16.34 5 P 36 11.00 1.1
LPB 16.61 5 P 36 17.00 3.9X
ZOBO 16.87 5 P 36 15.00 -1.6
SIV 18.72 26 P 36 37.80 -1.3
S.D. = 1.1 on 16 of 18 obs.

* APR 14, 1991 09h 44m 42.28± 0.64s
11.473 S ± 9.6km 118.087 E ±11.9km
DEPTH = 33.0km (normal)
4.6mb (4 obs.)
SOUTH OF SUMBAWA ISLAND (291)

TRT 6.55 304 iPd 46 17.00 -1.9
MBL 9.78 170 eP 47 01.30 -2.4
eS 48 40.00
KNA 11.22 113 eP 47 21.00 -2.4
eS 49 17.00
MTN 12.83 97 eP 47 41.20 -3.9X
eS 49 55.00
MEKA 15.07 178 eP 48 13.00 -1.5
eS 50 47.00
MRWA 17.76 186 iPd 48 49.30 0.6
WB2 17.77 120 eP 48 49.20 0.3
0.5s 4.70nm 3.9mb
BAL 19.08 184 iPd 49 05.60 0.7
ASPA 19.32 131 iPd 49 08.00 0.2
0.6s 12.00nm 4.3mb
eS 52 31.40
COOL 19.52 172 eP 49 10.00 0.0

KLB 20.02 181 eS 52 28.00
eP 49 18.00 2.7
eS 52 40.00
NWA0 21.37 182 iPd 49 35.00 5.9X
FORR 21.40 156 eP 49 30.00 0.6
RKG 22.51 182 eP 49 58.50 18.0X
eS 53 52.00
OIS 22.55 116 iPd 49 43.00 2.0
GUN 50.06 322 P 53 37.24 0.7
0.9s 21.00nm 5.2mb
PKI 50.10 321 P 53 37.04 0.2
0.8s 9.00nm 4.8mb
KKK 50.33 321 P 53 39.00 0.5
GKN 50.88 321 P 53 42.94 0.4
YKA 116.80 24 ePKP 03 24.00 -0.6
0.6s 0.20nm
CNCB 151.27 168 PKP 04 40.10 10.7X
LPB 151.51 167 ePKP 04 35.00 5.4X
ZOBO 151.76 167 PKP 04 41.00 10.9X
i 04 59.50
S.D. = 1.5 on 17 of 23 obs.

? APR 14, 1991 10h 05m 33.69± 1.71s
40.611 N ±11.1km 29.288 E ±13.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.4 (ISK).

YLV 0.08 125 iPg 05 36.50 0.3
iSg 05 39.50
IZI 0.31 153 ePg 05 40.00 -0.1
HRT 0.36 54 ePg 05 41.00 -0.1
eSg 05 48.50
DST 1.12 207 ePn 05 54.80 0.0
S.D. = 0.3 on 4 of 4 obs.

* APR 14, 1991 10h 08m 01.57± 1.04s
1.114 S ±11.9km 99.184 E ±13.9km
DEPTH = 33.0km (normal)
4.6mb (5 obs.)
SOUTHERN SUMATRA (274)

PSI 3.79 356 ePc 09 01.80 2.7
KLM 4.86 30 eP 09 13.00 -1.2
KGM 5.17 53 ePc 09 18.50 -0.3
IPM 5.95 18 ePc 09 28.10 -1.6
1.0s 61.60nm 5.2mb
SNG 8.36 10 eP 10 03.90 0.5
CHG 19.80 359 eP 12 35.00 2.6
PKI 31.45 336 P 14 22.00 -0.7
GUN 31.56 337 P 14 23.00 -0.7
KKK 31.69 336 P 14 24.00 -0.7
GKN 32.14 335 P 14 28.00 -0.6
WRA 39.15 121 P 15 36.00 7.8X
0.7s 7.20nm 4.5mb
WB2 39.16 121 eP 15 28.30 0.0
1.0s 4.80nm 4.2mb
ASPA 40.43 126 iPd 15 40.00 1.2
0.9s 13.00nm 4.7mb
i 15 52.30
STK 50.34 132 eP 17 19.10 21.5X
0.9s 2.40nm
KAF 83.03 333 eP 20 25.10 0.3
KEV 84.93 341 eP 20 31.00 -3.2X
APO 88.62 330 eP 20 51.00 -1.4
0.4s 1.40nm 4.6mb
S.D. = 1.5 on 14 of 17 obs.

% APR 14, 1991 10h 19m 22.12± 0.79s
39.597 N ± 5.7km 29.446 E ± 7.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

DST 0.63 271 ePg 19 33.80 -1.1
eSg 19 44.80
IZI 0.74 2 iPg 19 36.00 -0.7
YLV 0.97 357 iPn 19 40.00 -0.6
KCT 1.06 308 iPn 19 42.00 -0.1
EYL 1.11 29 ePn 19 42.50 -0.5
HRT 1.24 8 ePn 19 45.50 0.4
KHL 1.27 177 ePn 19 46.00 0.2
BNT 1.40 303 ePn 19 48.50 0.9
ISK 1.50 349 ePn 19 50.00 1.0
CTT 1.73 334 ePn 19 53.00 0.6
S.D. = 0.8 on 10 of 10 obs.

APR 14, 1991 10h 35m 52.58±0.90s
36.964 N ± 8.6km 29.424 E ± 6.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.7 (ISK).

ELL	0.44	119	iPg	36	01.50	-0.2
BCK	1.05	62	iPn	36	13.00	0.5
CIN	1.24	301	ePn	36	16.00	0.4
			iSg	36	35.00	
KHL	1.36	3	iPn	36	17.00	-0.6
ALT	2.16	14	ePn	36	29.00	-0.2
IZM	2.23	311	ePn	36	30.00	-0.2
DST	2.71	347	ePn	36	36.00	-0.2
KCT	3.38	346	ePn	36	46.00	-0.5
BNT	3.59	341	ePn	36	50.00	0.6
YLV	3.60	359	ePn	36	50.00	0.4
EYL	3.64	9	ePn	36	56.00	5.7X
BBTK	3.89	41	eP	36	56.00	2.2X

S.D. = 0.5 on 10 of 12 obs.

& APR 14, 1991 12h 11m 09.25s
60.930 N 151.238 W
DEPTH = 54.7km
KENAI PENINSULA, ALASKA (14)
<AEIC>.

NKA	0.19	180	ePd	11	19.88	1.8
SPU	0.47	303	iPd	11	20.20	-0.4
			eS	11	29.68	
CRP	0.56	308	iPd	11	21.40	-0.4
			eS	11	31.36	
SUA	0.59	24	ePd	11	21.54	-0.5
			eS	11	31.68	
CKL	0.60	297	iPd	11	21.64	-0.5
NCG	0.65	317	iPd	11	22.22	-0.6
			eS	11	32.94	
BGL	0.65	301	iPd	11	22.25	-0.6
SLKM	0.66	130	iPc	11	22.22	-0.6
RDT	0.68	239	iPc	11	22.41	-0.7
			eS	11	33.19	
DFR	0.79	245	iPc	11	23.78	-0.8
			eS	11	35.64	
REF	0.84	239	iPc	11	24.67	-0.7
			S	11	37.13	
RDN	0.86	242	iPc	11	24.56	-0.9
			eS	11	36.63	
PMS	0.87	68	ePc	11	25.36	-0.3
RSO	0.88	238	iPc	11	25.18	-0.7
			eS	11	38.19	
RS2	0.88	239	ePc	11	25.23	-0.7
			eS	11	38.21	
NNL	0.89	182	ePd	11	26.27	0.5
RDW	0.89	241	ePc	11	25.28	-0.7
			eS	11	38.71	
NCT	0.91	247	ePc	11	25.48	-0.7
RED	0.91	236	iPc	11	25.42	-0.8
			eS	11	38.52	
PWA	0.98	42	iPc	11	26.80	-0.1
SKT	1.06	353	iPd	11	27.34	-0.8
			eS	11	41.70	
SEW	1.21	132	eP	11	29.29	-0.9
PLRM	1.22	56	eP	11	29.19	-1.0
HOM	1.29	189	eP	11	31.66	0.4
GHO	1.40	52	ePc	11	31.80	-1.1
			eS	11	50.46	
CNPM	1.41	180	ePd	11	32.38	-0.6
			eS	11	52.18	
KNK	1.43	69	eP	11	32.21	-1.1
CUT	1.55	17	ePd	11	34.07	-0.8
KNIM	1.82	107	ePc	11	36.28	-2.4
PDB	1.86	233	iPc	11	37.68	-1.6
LTI	1.90	117	eP	11	37.78	-2.0
MTU	2.01	116	eP	11	39.52	-1.9
GLI	2.03	90	eP	11	38.25	-3.3
SCM	2.09	63	eP	11	41.24	-1.3
CDD	2.34	212	eP	11	45.29	-0.8
VLZ	2.40	83	ePc	11	44.64	-2.1
SYI	2.40	195	iPc	11	45.97	-0.8
KLU	2.63	75	ePc	11	47.83	-2.4
TOA	2.70	62	eP	11	50.19	-0.9

39 obs. associated

• APR 14, 1991 12h 15m 24.11±2.61s
42.282 N ± 26.4km 32.542 E ± 11.5km
DEPTH = 10.0km (geophysicist)
BLACK SEA (360)

MD 3.6 (ISK).

KAS	1.29	134	ePg	15	47.50	-0.6
			iSg	15	59.00	
BBTK	2.44	176	eP	16	06.00	1.2
			iS	16	30.00	
EYL	2.48	227	ePn	16	05.10	-0.2
HRT	2.60	237	ePn	16	06.70	-0.3
ISK	2.88	246	ePn	16	11.00	0.2
KVT	2.89	113	ePn	16	18.00	7.0X
YLV	2.94	235	ePn	16	11.00	-0.7
CTT	3.28	251	ePn	16	16.00	-0.6
DMK	3.59	264	ePn	16	22.00	1.0

S.D. = 0.9 on 8 of 9 obs.

APR 14, 1991 12h 24m 22.64±0.91s
39.448 N ± 8.5km 20.070 E ± 7.1km
DEPTH = 5.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 3.1 (ATH).

IGT	0.22	67	iPd	24	25.42	-1.7
KEK	0.34	322	iPbc	24	28.30	-1.1
			eSb	24	34.00	
VLS	1.33	162	ePn	24	47.50	-0.2
			eSn	25	07.00	
KZN	1.57	56	ePn	24	52.00	0.8
FNA	1.67	36	iPd	24	54.02	1.3
LCI	1.85	299	P	24	55.90	0.6
LIT	1.98	70	ePd	24	57.58	0.4
BRT	2.62	304	P	25	15.40	9.1X
			eSn	25	49.00	
VAY	2.67	45	ePn	25	07.00	-0.1
SKO	2.73	22	ePn	25	13.00	5.1X
ORI	2.86	284	P	25	17.00	7.2X

S.D. = 1.2 on 8 of 11 obs.

& APR 14, 1991 12h 49m 27.89s
60.270 N 145.001 W
DEPTH = 8.8km
3.0mb (1 obs.)
SOUTHERN ALASKA (2)
<AEIC>. ML 3.1 (AEIC).

CROM	1.04	61	iPd	49	46.51	-1.3
			eS	50	01.59	
MID	1.08	219	ePd	49	48.40	0.1
VLZ	1.08	323	iPc	49	46.85	-1.5
			eS	50	01.17	
VZW	1.10	317	ePd	49	47.29	-1.4
TGL	1.18	65	iPd	49	48.42	-1.7
			eS	50	04.46	
GLI	1.20	302	iPc	49	48.76	-1.6
KLU	1.31	340	iPc	49	50.42	-1.8
			eS	50	08.54	
GLB	1.31	26	iPd	49	50.41	-1.9
			eS	50	07.39	
MTU	1.36	259	eP	49	51.12	-1.8
KNIM	1.36	275	ePc	49	50.61	-2.5
			eS	50	09.24	
LTI	1.45	262	ePd	49	52.09	-2.1
			S	50	11.35	
BALM	1.52	58	iPd	49	53.57	-1.8
			eS	50	13.21	
TZL	1.79	354	eP	49	58.36	-0.9
TOA	1.93	343	iPd	50	01.30	0.1
SCM	1.93	325	ePc	49	59.39	-2.0
			eS	50	24.53	
CTGM	1.94	67	ePd	49	59.69	-1.8
KNK	2.04	306	ePc	50	00.81	-2.1
SEW	2.23	268	eP	50	02.70	-2.8
SDG	2.28	354	ePd	50	04.83	-1.5
			eS	50	33.09	
PLRM	2.41	305	eP	50	05.70	-2.4
PMR	2.41	305	ePc	50	06.70	-1.4
GHO	2.43	310	eP	50	06.56	-2.0
PMS	2.44	296	eP	50	07.11	-1.5
SLKM	2.60	278	eP	50	07.55	-3.3
PAX	2.72	355	eP	50	10.98	-1.7
PWA	2.75	302	eP	50	12.66	-0.3
PNL	2.88	100	ePd	50	11.38	-3.5
SUA	3.05	296	eP	50	14.64	-2.7
CUT	3.32	312	eP	50	19.10	-1.9
DOT	3.42	7	ePd	50	20.99	-1.5
SPU	3.58	288	eP	50	20.77	-4.1
SKT	3.60	301	ePc	50	21.75	-3.3
RND	3.64	332	eP	50	23.68	-2.0

CRP	3.65	289	eP	50	24.70	-1.2
NCG	3.68	291	eP	50	22.07	-4.3
RDT	3.68	278	eP	50	22.27	-4.0
CKL	3.72	288	eP	50	22.69	-4.2
BGL	3.76	289	eP	50	23.36	-4.1
RDN	3.86	277	eP	50	24.62	-4.2
FBA	4.82	346	eP	50	45.50	3.1
SVW	5.29	284	eP	50	55.00	6.0
TTA	5.89	302	eP	51	02.40	4.9
IMA	7.01	330	eP	51	15.40	2.0
INK	9.46	27	eP	51	43.00	-4.3
YKA	14.66	68	eP	52	59.90	2.8

0.9s 0.40nm 3.0mb
45 obs. associated

? APR 14, 1991 14h 27m 02.00±1.18s
13.137 N ± 14.4km 145.486 E ± 19.8km
DEPTH = 33.0km (normol)
4.1mb (3 obs.)
MARIANA ISLANDS (216)

GUA	0.69	306	iPc	27	15.40	0.1
			eS	27	21.80	
PJG	0.75	307	iPc	27	16.00	-0.1
WB2	34.65	199	iPd	33	49.60	-1.0
	0.7s		3.40nm			4.4mb
ASPA	38.29	197	eP	34	22.40	1.0
	1.7s		5.80nm			4.1mb
YKA	82.98	27	eP	39	24.90	0.0
	0.6s		0.30nm			3.6mb

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

? APR 14, 1991 15h 09m 29.71±0.68s
16.704 S ± 20.6km 173.421 W ± 21.0km
DEPTH = 33.0km (normol)
4.8mb (4 obs.)
TONGA ISLANDS (173)

DZM	19.72	251	iPc	14	06.10	6.4X
RUV	25.08	90	eP	14	44.00	-8.9X
	1.2s		25.00nm			4.7mb
MNG	25.70	200	eP	14	57.90	-0.6
WB2	49.53	258	iPc	18	19.50	-0.1
WRA	49.54	258	P	18	19.00	-0.7
	0.7s		2.80nm			4.4mb
ASPA	49.70	253	iPd	18	21.50	0.6
	0.8s		11.10nm			4.9mb
FBA	83.67	11	P	21	54.20	-1.8
SES	86.28	35	eP	22	09.00	-0.4
BJI	86.35	314	eP	22	13.50	3.7X
	1.5s		39.00nm			5.4mb
KSP	145.06	349	ePKPc	29	05.60	0.4
CLL	145.10	353	iPKPc	29	05.30	0.1
			e	29	26.00	
NAI	145.24	242	iPKP	29	12.20	5.3X
SPC	145.74	344	ePKP	29	07.40	0.7
MOX	145.90	354	ePKP	29	12.00	5.3X
PRU	146.18	351	ePKP	29	08.50	1.4
			e	29	11.50	
GRF	146.88	354	e(PKP)	29	11.00	2.7X
KHC	147.16	352	PKP	29	11.50	2.7X
			e	29	20.00	
ZST	147.43	347	ePKP	29	16.50	7.3X
			e	33	33.30	
SRO	147.51	345	ePKP	29	15.20	5.9X
BBTK	147.61	321	ePKP	29	14.00	4.1X
TRI	150.46	356	ePKP	29	18.00	4.1X
SKO	151.77	336	ePKP	29	16.60	0.5
OHR	152.76	336	ePKP	29	25.70	8.1X

S.D. = 1.0 on 11 of 23 obs.

? APR 14, 1991 15h 28m 40.61±3.98s
62.032 N ± 19.1km 2.800 E ± 28.1km
DEPTH = 10.0km (geophysicist)
NORWEGIAN SEA (642)
MD 2.5 (BER).

FRO	1.02	105	iP	29	00.39	0.5
			iS	29	10.	

14d 15h

MOL 2.28 74 eP 29 19.56 0.7
eSg 29 50.49
ODD1 2.83 137 iPc 29 26.40 -0.3
iS 29 55.72
KMY 3.08 156 iP 29 30.14 0.1
eS 30 01.60
NRA0 4.40 103 Pn 29 46.80 -2.1
Lg 30 55.50
S.D. = 1.0 on 9 of 9 obs.

APR 14, 1991 16h 38m 08.23± 1.00s
37.346 N ± 9.9km 20.351 E ± 5.5km
DEPTH = 33.0km (normol)
3.6mb (2 obs.)
IONIAN SEA (399)
ML 3.5 (ATH). MD 3.3 (THE).

VLS 0.85 13 ePg 38 24.00 0.2
VLI 2.16 106 ePn 38 44.00 1.4
IGT 2.18 360 ePd 38 45.12 2.2
iS 39 02.21
AGG 2.29 42 ePd 38 45.60 1.1
iS 39 01.57
KEK 2.40 350 ePg 38 54.50 8.4X
ATH 2.74 76 ePg 38 57.70 6.9X
KZN 3.16 20 ePn 38 57.50 0.7
eSn 39 35.70
LIT 3.22 31 ePd 38 57.57 -0.1
LCI 3.52 329 P 39 01.80 -0.1
FNA 3.52 13 iPc 39 02.37 0.3
iS 39 29.89

PAIG 3.67 44 ePc 39 03.24 -0.7
OHR 3.78 5 iPn 39 06.50 0.9
THE 3.86 31 ePc 39 06.48 -0.2
TDS 3.90 307 P 39 05.00 -2.4
GRG 3.94 23 ePd 39 07.52 -0.4
ATN 3.96 283 P 39 08.50 0.3
SOH 4.18 33 iPc 39 11.21 -0.2
iS 39 45.05

BRT 4.29 326 P 39 15.00 2.1
KNT 4.29 27 ePc 39 12.46 -0.4
iS 39 46.42

VAY 4.33 23 ePn 39 12.60 -0.7
MEU 4.33 268 P 39 12.40 -1.2
eSn 40 02.00

SRS 4.53 33 iPd 39 15.48 -0.8
MGR 4.67 308 P 39 20.10 1.8
SKO 4.70 10 iPn 39 17.40 -1.2
i 40 09.30

MMB 4.98 31 ePd 39 22.00 -0.7
SGO 5.07 311 P 39 27.50 3.6X
RZN 5.49 37 iPd 39 29.00 -1.0
VTS 5.68 22 iPc 39 33.00 0.4

KDZ 5.82 41 iPc 39 39.00 4.6X
HFS 23.20 352 eP 43 11.50 -1.3
0.4s 0.70nm 3.5mb

NB2 24.41 349 P 43 29.60 5.0X
0.7s 1.40nm 3.6mb
S.D. = 1.2 on 26 of 31 obs.

& APR 14, 1991 17h 21m 30.80s
59.263 N 153.530 W
DEPTH = 97.5km
SOUTHERN ALASKA (2)
<AEIC>

AUI 0.09 36 iP 21 43.99 0.9
eS 21 54.44

AUH 0.11 24 eP 21 44.27 1.1

AUE 0.13 40 iP 21 44.23 1.1

CDD 0.34 190 iP 21 44.77 -0.8
eS 21 55.90

MCNL 0.42 260 iP 21 45.28 -0.7
eS 21 56.00

PDB 0.63 328 eP 21 46.62 -0.9
eS 21 59.01

SYI 0.88 137 iP 21 49.04 -1.0
eS 22 03.18

CNPM 1.20 76 eP 21 52.34 -1.3
eS 22 09.50

RED 1.22 18 iP 21 52.75 -1.2
eS 22 09.77

RSO 1.27 18 iP 21 53.53 -1.1
eS 22 10.89

RS2 1.27 18 iP 21 53.52 -1.1
eS 22 11.74

RDW 1.28 16 iP 21 53.58 -1.2

REF 1.30 18 iP 21 53.83 -1.2
eS 22 11.82
RDN 1.31 17 iP 21 54.03 -1.1
eS 22 12.04
NCT 1.34 13 iP 21 54.21 -1.2
eS 22 12.19
NNL 1.38 54 eP 21 55.44 -0.3
DFR 1.40 17 iP 21 54.95 -1.2
eS 22 14.12

RDT 1.43 23 eP 21 54.99 -1.5
eS 22 14.26

CKL 2.03 17 iP 22 03.00 -1.3

SPU 2.06 20 iP 22 03.09 -1.6

SLKM 2.08 52 eP 22 03.89 -1.0

BGL 2.09 15 iP 22 03.92 -1.1

CRP 2.12 18 eP 22 03.58 -2.0

SEW 2.23 66 eP 22 05.54 -1.3

NCG 2.25 17 iP 22 05.99 -1.3

SUA 2.61 31 eP 22 10.97 -1.1

PMS 2.80 43 eP 22 13.07 -1.6

SKT 2.90 19 eP 22 13.89 -2.0

LTI 2.98 72 eP 22 14.93 -2.1

PWA 3.00 35 eP 22 15.01 -2.2

MTU 3.07 74 eP 22 16.15 -2.1

KNIM 3.12 67 eP 22 15.54 -3.4

PLRM 3.20 41 eP 22 16.94 -3.0

GHO 3.39 40 eP 22 19.53 -3.2

CUT 3.53 25 eP 22 22.39 -2.2

35 obs. associated

APR 14, 1991 18h 22m 36.28± 1.37s
4.379 S ± 8.8km 102.785 E ± 9.7km
DEPTH = 104.5 ± 11.0 km
5.2mb (16 obs.)
SOUTHERN SUMATERA (274)

KGM 6.37 5 ePc 24 09.20 -0.1

IPM 9.07 349 ePd 24 46.10 0.0

0.7s 24.60nm 5.1mb

TRT 10.34 109 eP 25 02.80 -0.3

SNL 11.68 349 eP 25 21.80 0.9

NST 20.09 353 eP 27 07.00 3.0X

BDT 21.81 350 eP 27 20.00 -1.2

CHG 23.35 351 ePd 27 36.30 0.0

1.0s 24.75nm 4.5mb

GBA 30.86 306 Pd 28 44.90 0.0

0.5s 3.40nm 4.3mb

GYA 30.88 7 P 28 46.00 0.9

WB2 34.42 119 iPd 29 14.80 -1.0

0.8s 10.40nm 4.7mb

i 34 35.20

i 35 29.50

CD2 35.10 1 eP 29 20.40 -1.1

ASPA 35.61 126 iPc 29 25.70 -0.2

0.5s 16.60nm 5.2mb

PKI 35.92 333 Pc 29 28.26 -0.5

0.6s 26.00nm 5.3mb

GUN 36.00 334 Pc 29 29.40 -0.1

0.6s 138.00nm 6.0mb

DMN 36.09 333 Pc 29 29.78 -0.3

0.9s 56.00nm 5.5mb

KKN 36.17 333 Pc 29 30.44 -0.3

0.8s 111.00nm 5.8mb

WHN 36.44 17 eP 29 32.00 -0.7

GKN 36.64 333 Pc 29 34.44 -0.2

0.9s 145.00nm 5.9mb

OIS 39.24 117 iPc 29 56.40 0.0

LZH 40.26 1 Pc 30 05.00 0.3

1.0s 25.00nm 5.0mb

SP 30 22.00

NDI 41.05 325 iP 30 11.00 -0.1

0.7s 58.22nm 5.5mb

TIY 42.83 11 eP 30 26.90 1.3

BJI 45.88 14 eP 30 51.00 1.1

QUE 48.55 317 eP 31 11.12 0.0

WMO 49.87 346 P 31 20.80 -0.1

2.0s 100.00nm 5.5mb

CN2 52.13 21 Pc 31 37.00 -0.9

ePP 31 50.00

BRS 52.79 121 iPc 31 45.00 1.8

IRK 56.45 1 eP 32 10.00 0.7

YAK 69.36 13 iP 33 33.00 -1.3

YLV 80.34 312 iP 34 37.20 -0.4

KAF 87.55 333 iP 35 14.30 0.9

0.7s 9.80nm 4.9mb

NUR 87.96 331 iP 35 16.50 1.2

SOD 88.72 338 eP 35 19.00 0.1
HFS 93.31 330 eP 35 40.40 0.2
1.1s 11.50nm 5.1mb
NB2 94.56 331 P 35 45.80 -0.2
0.9s 1.50nm 4.4mb
YKA 115.79 18 ePKP 41 07.10 -0.6
1.0s 0.80nm
S.D. = 0.8 on 35 of 36 obs.

% APR 14, 1991 19h 46m 24.41± 1.12s
41.868 N ± 11.3km 14.086 E ± 9.0km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (396)

SDI 0.26 231 Pc 46 30.10 0.2
eSg 46 35.70

DUI 0.35 126 P 46 31.50 -0.1

eSg 46 37.00

AZI 0.50 284 P 46 33.50 -1.0

eSg 46 41.90

AOU 0.70 314 P 46 38.00 -0.3

MNS 1.17 297 P 46 47.50 1.3

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

APR 14, 1991 20h 11m 31.28± 0.26s
46.760 N ± 3.0km 5.695 E ± 2.6km
DEPTH = 3.7 ± 2.2 km
FRANCE (538)

MD 3.3 (STR). ML 3.3 (LDG).

LOMF 0.97 52 Pg 11 51.38 1.0

Sg 12 04.75

EMS 1.10 128 ePc 11 52.10 -0.5

LBF 1.20 281 Pn 11 55.70 1.4

Pg 11 56.80

Sg 12 14.00

RSL 1.25 149 Pg 11 54.91 -0.3

Sg 12 10.85

SMF 1.28 266 Pn 11 56.60 1.0

Pg 11 58.00

Sg 12 15.80

BSF 1.31 34 Pg 11 57.82 1.7

Sg 12 15.61

HAU 1.32 19 Pn 11 56.90 0.6

Pg 11 58.40

Sg 12 16.30

LOR 1.36 293 Pn 11 58.00 1.1

Pg 12 00.40

Sg 12 18.60

DIX 1.37 119 ePd 11 57.50 0.1

BBS 1.43 60 Pg 11 59.27 1.2

LPL 1.44 150 Pn 11 58.40 0.0

Pg 11 59.60

Sg 12 17.60

LPG 1.46 149 Pn 11 58.70 -0.1

Pg 12 00.00

MOF 1.47 41 Pn 11 58.25 -0.4

VITF 1.47 8 Pn 11 58.33 -0.2

Sg 12 21.38

AVF 1.61 272 Pn 12 01.60 1.0

Sg 12 25.80

LSD 1.65 142 P 12 01.33 -0.1

SSB 1.69 209 Pn 12 00.55 -1.2

Pg 12 04.21

Sg 12 25.25

MMK 1.72 113 ePc 12 04.30 1.8

ECH 1.76 34 Pn 12 01.99 -0.8

BNI 1.84 158 Pd 12 06.30 2.2

iSn 12 29.30

FEL 1.93 54 ePn 12 03.73 -1.7

RSP 1.94 145 P 12 05.74 0.2

ORO 1.95 125 P 12 06.20 0.5

eSn 12 32.50

CDF 1.97 32 Pn 12 04.52 -1.4

BGF 1.97 265 Pn 12 06.40 0.5

Pg 12 11.30

Sg 12 37.00

ZLA 1.98 68 ePd 12 10.20 4.2X

RRL 1.99 157 P 12 06.87 0.5

WLS 2.00 34 Pn 12 04.97 -1.3

SLE 2.16 61 ePc 12 09.80 1.3

BHB 2.21 150 P 12 09.21 -0.1

MAF 2.23 257 Pn 12 09.60 0.0

Pg 12 16.00

Sg 12 45.00

LLS 2.27 86 ePc 12 14.80 4.4X

VAI 2.31 112 P 12 11.10 0.4

TCF	2.45	260	Pn	12 12.80	0.0
			Sg	12 52.30	
PZZ	2.46	156	P	12 14.35	1.3
DOI	2.51	154	P	12 18.30	4.7X
			eSn	12 51.00	
GWF	2.57	30	Pn	12 12.81	-1.6
STV	2.76	155	P	12 15.69	-1.6
ENR	2.81	154	P	12 16.71	-1.2
ROB	2.90	147	P	12 16.71	-2.5
LSF	2.92	261	Pn	12 19.10	-0.3
			Sg	13 07.00	
PCP	2.99	137	P	12 20.16	-0.2
CAF	3.13	235	Pn	12 21.70	-0.7
			Sg	13 11.60	
SBF	3.15	156	Pn	12 21.60	-1.0
			Sn	12 56.20	
RJF	3.25	245	Pn	12 23.40	-0.7
			Sg	13 15.60	
FRF	3.27	168	Pg	12 32.40	8.0X
			Sn	12 59.00	
LRG	3.34	172	Pg	12 33.60	8.3X
			Sn	13 00.30	
LPO	3.78	238	Pn	12 30.70	-0.9
LFF	3.91	244	Pn	12 32.80	-0.7
MFF	4.02	270	Pn	12 35.20	0.2
			Sg	13 39.60	
LDF	4.34	297	Pg	12 56.00	16.5X
			Sg	13 51.00	
FLN	4.62	298	Pn	12 44.00	0.5
			Sg	14 00.00	
GRR	4.73	293	Pn	12 44.90	-0.1
LPF	4.75	288	Pn	12 45.00	-0.4

S.D. = 1.1 on 48 of 54 obs.

? APR 14, 1991 20h 24m 46.23 ± 4.89s
 17.740 N ± 36.5km 61.551 W ± 15.1km
 DEPTH = 10.0km (geophysicist)
 LEEWARD ISLANDS (92)
 ML 2.9 (FDF).

BPA	0.75	203	eP	25 00.71	-0.2
			S	25 09.80	
NEV	1.14	239	eP	25 07.65	0.0
SEG	1.33	178	eP	25 10.90	0.1
			S	25 27.10	
DEG	1.49	162	eP	25 13.00	-0.2
DOG	1.70	182	eP	25 16.10	0.0
PAG	1.70	184	eP	25 16.10	-0.1
			S	25 37.90	

S.D. = 0.2 on 6 of 6 obs.

% APR 14, 1991 22h 09m 03.83 ± 0.84s
 44.523 N ± 6.8km 11.083 E ± 6.7km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)

MME	0.43	220	P	09 12.90	0.2
			eSg	09 20.10	
BDI	0.58	217	P	09 15.40	-0.2
			eSg	09 24.80	
PGD	0.79	144	P	09 18.70	-0.7
SFI	0.82	137	P	09 19.70	0.1
			eSg	09 31.70	
CRE	1.09	145	P	09 24.60	0.2
			eSn	09 41.40	
CTI	1.58	15	P	09 31.90	-0.1
			eSn	09 50.60	
ARV	1.69	127	P	09 34.00	0.5
			eSg	09 56.00	

S.D. = 0.5 on 7 of 7 obs.

% APR 14, 1991 22h 31m 14.77 ± 0.95s
 44.719 N ± 6.2km 11.766 E ± 14.3km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)

SFI	0.80	176	P	31 30.00	-0.3
			eSg	31 44.30	
PGD	0.84	182	P	31 31.10	-0.1
BDI	1.06	232	P	31 34.90	0.0
			eSg	31 51.10	
CRE	1.10	173	P	31 35.80	0.3
			eSg	31 52.90	
CTI	1.33	357	P	31 39.40	0.0
			eSn	31 58.70	

S.D. = 0.3 on 5 of 5 obs.

* APR 14, 1991 22h 46m 21.66 ± 0.80s
 47.249 N ± 7.4km 11.219 E ± 7.0km
 DEPTH = 10.0km (geophysicist)
 AUSTRIA (546)
 ML 1.8 (VIE).

SOTA	0.03	193	iPg	46 24.10	0.3
			iSg	46 25.70	
MOTA	0.12	321	iPg	46 24.80	-0.1
			iSg	46 27.30	
WATA	0.26	70	iPg	46 27.10	-0.1
			iSg	46 31.90	
WTTA	0.28	87	iPg	46 27.80	0.1
			iSg	46 33.00	
OGA	0.40	199	iPg	46 29.80	-0.2

S.D. = 0.3 on 5 of 5 obs.

& APR 14, 1991 23h 09m 23.33s
 62.892 N 148.734 W
 DEPTH = 73.8km
 CENTRAL ALASKA (1)
 <AEIC>.

HUR	0.42	282	iPd	09 35.86	-0.1
			eS	09 45.78	
RND	0.52	354	iPd	09 36.72	-0.2
			S	09 47.12	
MCK	0.85	354	iPd	09 40.38	-0.1
			S	09 53.33	
CUT	0.86	236	iPd	09 40.42	-0.1
TRF	0.90	309	ePc	09 41.14	-0.1
			eS	09 54.89	
SML	1.10	170	eP	09 43.96	0.3
			eS	09 59.36	
GHO	1.13	185	iPc	09 43.91	-0.1
SCM	1.25	148	iPc	09 45.16	-0.4
			eS	10 02.98	
PLRM	1.32	188	eP	09 45.98	-0.4
			eS	10 04.60	
PMR	1.32	188	iPc	09 46.60	0.2
BWN	1.33	346	ePc	09 45.76	-0.7
			eS	10 02.45	
PWA	1.36	204	iPd	09 47.10	0.2
			eS	10 05.34	
TOA	1.43	122	iPc	09 48.70	0.8
THY	1.45	67	eP	09 48.35	0.1
			eS	10 07.25	
KNK	1.49	175	iPc	09 48.79	0.1
PAX	1.50	86	ePd	09 48.45	-0.4
			eS	10 07.99	
SDG	1.52	103	ePc	09 49.13	0.1
			eS	10 09.41	
DDM	1.58	54	iPd	09 50.68	0.8
			eS	10 11.14	
SKT	1.59	236	iPd	09 49.87	-0.2
			eS	10 10.62	
WRH	1.61	10	iPd	09 49.25	-1.1
NEA	1.70	355	ePd	09 50.33	-1.2
			eS	10 10.16	
PMS	1.70	194	eP	09 52.06	0.5
HDA	1.71	27	iPd	09 50.86	-0.9
			eS	10 12.30	
SUA	1.72	214	eP	09 51.90	0.0
TZL	1.76	117	eP	09 52.53	0.2
CCB	1.81	13	iPd	09 51.72	-1.3
			eS	10 14.73	
KLU	1.93	136	iPc	09 53.56	-1.1
RDS	1.96	7	ePd	09 53.97	-1.1
			eS	10 17.45	
FBA	2.06	11	iPd	09 55.90	-0.5
MDM	2.09	6	iPd	09 55.74	-1.1
VLZ	2.10	146	eP	09 55.36	-1.6
VZW	2.11	150	eP	09 55.69	-1.5
GLI	2.16	158	ePc	09 56.44	-1.5
GLM	2.19	15	ePd	09 56.99	-1.3
NCG	2.19	229	eP	09 58.33	-0.1
DOT	2.24	68	eP	09 58.14	-0.9
CRP	2.29	226	eP	10 00.15	0.3
SPU	2.32	224	eP	09 59.52	-0.6
BGL	2.37	228	eP	10 01.81	0.9
CKL	2.40	227	ePc	10 00.87	-0.4
SLKM	2.50	197	eP	10 02.77	0.3
KNIM	2.60	169	eP	10 02.39	-1.5
HIN	2.72	156	eP	10 04.16	-1.5
GLB	2.73	120	ePc	10 04.68	-1.1
CVA	2.75	148	eP	10 04.77	-1.2

SEW	2.82	187	eP	10 06.27	-0.7
LTJ	2.89	171	eP	10 06.82	-1.2
RDT	2.91	219	eP	10 07.64	-0.7
SGAM	2.93	143	eP	10 06.70	-1.8
MTU	2.96	169	eP	10 07.51	-1.4
DFR	2.98	221	eP	10 08.84	-0.4
NCT	3.07	222	eP	10 10.90	0.3
RAGM	3.17	141	eP	10 12.62	0.7
TTA	3.33	274	iPc	10 13.50	-0.7
BALM	3.55	119	eP	10 15.20	-2.0
CNPM	3.59	201	iPd	10 16.97	-0.8
SVW	3.71	244	eP	10 18.40	-1.0
WAX	3.72	129	ePc	10 17.68	-2.0
IMA	3.84	328	iPd	10 20.60	-0.7
FYU	3.98	21	ePd	10 22.30	-0.9
PDB	4.08	223	eP	10 23.06	-1.5
INK	8.30	43	P	11 20.00	-3.1

0.2s 0.50nm 3.9mb X
62 obs. associated

APR 15, 1991 00h 35m 09.15 ± 1.25s
 36.660 N ± 11.2km 21.177 E ± 5.6km
 DEPTH = 12.5 ± 4.4 km
 SOUTHERN GREECE (368)
 ML 3.4 (ATH).

VLI	1.42	87	ePb	35 34.00	-0.6
VLS	1.58	343	ePb	35 38.50	1.5
ATH	2.41	56	ePb	35 51.50	2.6
AGG	2.53	21	ePc	35 52.80	2.2
IGT	2.94	347	ePd	35 56.86	0.4
			eS	36 32.60	
KEK	3.24	341	ePb	36 08.50	7.9X
LIT	3.59	16	ePc	36 06.40	0.7
KZN	3.67	7	ePn	36 07.30	0.4
PAIG	3.81	30	ePd	36 07.88	-0.9
FNA	4.12	2	ePc	36 14.36	1.1
			iS	37 01.32	
GRG	4.40	12	ePd	36 16.45	-0.7
			iS	37 05.44	
LCI	4.45	326	P	36 16.90	-1.0
OHR	4.45	356	ePn	36 18.00	0.0
SOH	4.49	22	ePc	36 17.84	-0.6
KNT	4.69	16	ePc	36 20.88	-0.5
			iS	37 12.16	
VAY	4.78	13	ePn	36 22.00	-0.6
ATN	4.79	290	Pc	36 23.00	0.2
SRS	4.83	22	ePd	36 22.08	-1.3
TDS	4.85	310	P	36 24.60	1.0
MEU	5.03	277	P	36 25.60	-0.6
ORI	5.03	314	P	36 27.90	1.7
BRT	5.23	325	P	36 28.20	-0.8
SKO	5.31	2	ePn	36 29.00	-1.1
MNO	5.32	286	P	36 30.20	-0.3
MGR	5.62	310	P	36 34.40	0.0
SGO	6.02	312	P	36 41.00	1.0
SDI	7.62	314	P	37 01.00	-1.6

S.D. = 1.2 on 26 of 27 obs.

& APR 15, 1991 00h 44m 49.22s
 55.041 N 157.623 W
 DEPTH = 88.6km
 2.7mb (1 obs.)
 ALASKA PENINSULA (12)
 <PAL>.

SDN	1.68	282	eP	45 17.50	0.0
YKA	23.13	54	eP	49 56.40	8.7

0.6s 0.20nm 2.7mb
2 obs. associated

? APR 15, 1991 00h 45m 55.54 ± 1.04s
 48.059 N ± 10.7km 7.635 E ± 8.3km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.2 (LDG).

FEL	0.31	126	ePg	46 02.12	0.0
CDF	0.43	326	Pg	46 04.20	-0.1
BSF	0.61	248	Pg	46 07.60	-0.3
			Sg	46 16.00	
HAU	0.87	267	Pg	46 12.60	0.4
			Sg	46 24.00	

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

APR 15, 1991 03h 01m 22.13 ± 0.47s
 41.029 N ± 6.3km 141.415 E ± 8.9km

15d 03h

DEPTH = 109.5 ± 5.6 km
4.4mb (9 obs.)

HOKKAIDO, JAPAN REGION (224)

AOMJ	0.92	240	P	01	42.40	-0.3
			S	01	56.70	
MRRJ	1.42	350	P	01	47.70	-0.5
			S	02	06.50	
HOOJ	1.95	45	iPd	01	55.50	0.6
			eS	02	19.80	
OFUJ	1.96	174	iPd	01	54.90	-0.1
			S	02	19.70	
YAMJ	3.04	201	P	02	10.30	0.9
KUSJ	3.21	49	iPd	02	10.40	-1.2
			eS	02	45.00	
ASAJ	3.22	16	eP	02	11.90	0.1
NIJJ	4.22	207	P	02	27.90	2.4
KAKJ	4.91	192	P	02	32.60	-2.3
			S	03	29.10	
MTMJ	5.26	214	P	02	43.60	3.8X
CHJJ	5.32	202	eP	02	41.10	0.5
TSRJ	6.95	220	P	03	07.10	4.2X
FBA	45.76	34	P	09	35.00	1.3
GUN	46.89	272	P	09	43.50	-0.1
	0.4s	51.00nm			5.6mb	X
KKN	47.41	272	P	09	47.96	0.5
	0.8s	40.00nm			5.3mb	
PKI	47.42	272	P	09	47.68	-0.1
	0.6s	11.00nm			4.8mb	
DMN	47.63	272	P	09	49.52	0.2
GKN	47.78	273	P	09	50.08	-0.2
INK	50.86	29	eP	10	14.00	1.0
YKA	60.38	31	eP	11	20.60	-0.8
	0.8s	0.90nm			3.9mb	
WB2	61.01	188	eP	11	22.60	-3.6X
	0.2s	1.40nm			4.6mb	
WRA	61.01	188	P	11	24.00	-2.2
	0.4s	4.70nm			4.9mb	
GBA	61.61	263	P	11	34.00	3.6X
	0.4s	0.90nm			4.1mb	
SES	69.12	41	eP	12	19.00	0.9
FFC	70.36	33	iPc	12	25.90	0.4
	0.6s	5.00nm			4.5mb	
HFS	70.46	335	eP	12	25.30	-0.7
	0.4s	1.20nm			4.1mb	
NB2	70.51	337	P	12	25.60	-0.8
	0.5s	1.30nm			4.0mb	
FRB	72.89	13	eP	12	40.00	-0.4
TNP	73.50	54	P	12	45.70	1.0
S.D. = 1.1 on 25 of 29 obs.						

? APR 15, 1991 03h 12m 49.72 ± 1.30s
10.217 S ± 16.0km 161.093 E ± 20.4km
DEPTH = 100.3 ± 14.3 km
4.1mb (2 obs.)

SOLOMON ISLANDS (193)

HNR	1.37	305	eP	13	14.00	-0.8
			eS	13	35.00	
SVO	1.65	310	eP	13	19.00	0.8
			eS	13	40.00	
DZM	12.86	157	iP	15	50.10	0.1
			iS	18	06.00	
WB2	27.53	246	iPd	18	29.10	0.0
	0.6s	3.70nm			4.1mb	
			e	18	50.40	
YKA	96.36	28	eP	26	07.90	-0.1
	0.8s	0.40nm			4.0mb	
S.D. = 1.1 on 5 of 5 obs.						

? APR 15, 1991 03h 21m 26.66 ± 14.57s
40.817 N ± 66.1km 20.721 E ± 89.9km
DEPTH = 5.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
ML 1.9 (SKO).

OHR	0.30	11	iPd	21	32.10	-0.6
			iSg	21	36.20	
FNA	0.50	94	ePd	21	36.44	-0.2
			eS	21	43.80	
SKO	1.27	25	iPn	21	51.50	0.7
			i	22	06.50	
GRG	1.28	83	iPd	21	50.88	0.0
			eS	22	09.72	
KNT	1.68	77	ePc	21	57.04	0.1
			iS	22	21.64	
S.D. = 0.7 on 5 of 5 obs.						

* APR 15, 1991 04h 18m 30.70 ± 1.84s
15.398 N ± 5.0km 60.488 W ± 20.7km
DEPTH = 33.0km (normol)
LEEWARD ISLANDS (92)
ML 2.9 (FDF).

CRM	0.76	213	iPc	18	44.98	0.0
			S	18	55.40	
FDF	0.92	224	iPc	18	47.40	0.1
			S	18	58.00	
MVM	0.93	205	iPd	18	47.60	0.2
			S	18	59.40	
BBL	0.96	278	ePc	18	47.72	-0.2
			S	18	58.40	
BIM	1.04	213	iPc	18	49.24	0.2
DEG	1.06	329	ePc	18	49.04	-0.3
			S	19	01.90	
DOG	1.26	300	ePc	18	52.34	0.2
			S	19	06.50	
PAG	1.31	299	eP	18	53.00	0.1
			S	19	07.80	
SEG	1.40	316	eP	18	54.75	0.7
			S	19	11.00	
BPA	2.10	321	eP	19	04.40	0.1
S.D. = 0.3 on 10 of 10 obs.						

& APR 15, 1991 05h 31m 13.68s
48.016 N 119.885 W
DEPTH = 5.0km
3.0mb (1 obs.)
WASHINGTON (29)
<SEA>. ML 3.6 (SEA). Felt (V) at
Chelan and Methow; (IV) at
Brewster, Bridgeport, Molott and
Pateros; (III) at Okanogan,
Omok, Twisp and Waterville. Also
felt at Grand Coulee.

DHW2	0.08	112	Pc	31	15.55	-0.1
CBSW	0.24	206	Pc	31	18.13	-0.4
NLW	0.31	282	Pd	31	19.35	-0.6
WTV	0.32	188	Pd	31	19.57	-0.6
SAW	0.45	134	Pd	31	21.64	-1.1
ETW	0.51	216	Pc	31	23.02	-0.9
EPH	0.69	163	Pd	31	26.07	-1.4
TBM	0.97	210	Pd	31	31.91	-0.8
			S	31	45.83	
OD2	1.01	128	Pd	31	31.20	-2.1
VTG	1.06	184	Pd	31	32.59	-1.5
TWV	1.10	218	Pd	31	34.38	-0.5
RC1	1.12	164	ePd	31	32.79	-2.3
DPW	1.14	97	P	31	33.43	-2.1
WRD	1.16	154	Pd	31	33.28	-2.6
RPW	1.17	292	Pd	31	34.60	-1.5
EBG	1.20	203	Pd	31	35.25	-1.3
BVW	1.21	180	P	31	34.55	-2.1
CRF	1.24	164	Pd	31	34.60	-2.5
WAH2	1.28	170	Pd	31	35.37	-2.5
HTW	1.29	261	Pd	31	36.70	-1.3
PNT	1.31	8	P	31	36.40	-2.1
LOCW	1.33	166	ePd	31	36.03	-2.8
OT2	1.37	161	P	31	36.20	-3.2
JCW	1.38	278	Pc	31	38.32	-1.3
MDW	1.41	177	P	31	37.22	-2.8
RMW	1.41	247	Pc	31	38.93	-1.2
NAC	1.43	207	P	31	38.59	-1.8
GBL	1.45	168	Pd	31	37.65	-2.9
BLH	1.46	264	P	31	39.34	-1.3
			S	31	59.43	
MXC	1.47	191	P	31	38.82	-2.0
MJ2	1.50	166	Pd	31	38.25	-3.0
GSM	1.53	239	Pc	31	40.35	-1.4
BRVW	1.53	183	P	31	39.96	-1.9
MBW	1.55	301	P	31	40.68	-1.4
YAKW	1.56	197	Pd	31	44.65	2.5
			S	32	01.15	
ET3	1.58	155	P	31	38.94	-3.4
FMW	1.63	229	Pc	31	41.50	-1.8
WIW	1.64	165	P	31	43.33	0.1
WIW	1.64	165	Pd	31	40.09	-3.1
RSW	1.64	173	Pd	31	40.35	-3.0
RVC	1.78	234	Pc	31	43.89	-1.4
OHW	1.80	281	Pc	31	45.62	0.1
PRW	1.81	176	P	31	47.26	1.5
			S	32	12.84	
LON	1.82	227	P	31	44.40	-1.6

PGW	1.84	265	P	31	48.16	2.1
GLK	1.87	220	Pc	31	45.74	-1.0
			S	32	12.16	
NEW	1.87	81	P	31	43.30	-3.3
GHW	1.89	240	P	31	45.42	-1.5
GMW	2.01	258	P	31	47.00	-1.7
MEW	2.04	247	P	31	48.50	-0.5
BLN	2.07	271	P	31	47.87	-1.7
MCW	2.08	290	P	31	50.22	0.6
			S	32	21.67	
WG3	2.11	160	Pc	31	51.60	1.5
LMW	2.12	231	P	31	52.16	1.8
PATW	2.14	178	P	31	52.91	2.4
HDW	2.17	261	P	31	51.31	0.3
			S	32	20.20	
ASR	2.20	213	P	31	54.07	2.5
KOSW	2.21	226	P	31	53.34	1.7
			S	32	22.48	
TDL	2.30	225	P	31	52.74	-0.3
			S	32	25.02	
CZM	2.39	229	P	31	47.10	-7.0
			S	31	56.80	
CPW	2.44	246	P	31	53.59	-1.3
			S	32	30.21	
MTMW	2.55	219	P	32	01.25	4.8
			S	32	33.43	
JBO	2.56	179	P	31	58.74	2.2
			S	32	32.80	
VGB	2.58	194	P	31	54.20	-2.6
BMW	2.75	237	P	31	59.67	0.3
			S	32	38.05	
VFP	2.91	203	P	32	10.03	8.3
			S	32	44.57	
HBMT	5.46	111	ePn	32	34.00	-3.9
LRM	5.55	111	ePn	32	34.50	-4.6
HRV	5.63	100	ePn	32	35.50	-4.6
MCMT	5.82	121	ePn	32	39.00	-3.9
BGMT	6.08	114	ePn	32	42.50	-4.1
SXM	6.21	104	ePn	32	44.00	-4.5
SES	6.27	64	P	32	44.00	-5.1
	0.6s	4.80nm			4.5mb	X
LTMT	6.42	120	ePn	32	46.10	-5.4
YKA	14.81	10	eP	34	43.60	-1.7
	0.7s	0.30nm			3.0mb	
75 obs. associated						

APR 15, 1991 05h 35m 59.95 ± 0.63s
36.086 N ± 9.3km 31.086 E ± 11.9km
DEPTH = 87.1 ± 29.4 km
TURKEY (366)
MD 4.1 (HLW), 3.9 (ISK).

ELL	1.16	305	iPn	36	22.00	0.3
BCK	1.43	344	iPn	36	23.00	-2.1
PPCY	1.58	139	ePn	36	28.70	1.7
			eSn	36	52.50	
CSS	2.15	121	eP	36	31.70	-2.9
			ePb	36	41.10	
			eSn	37	06.70	
YER	2.49	296	iPn	36	41.00	1.7
KHL	2.56	331	iPn	36	39.70	-0.6
CIN	2.84	303	iPc	36	45.00	0.9
BBTK	3.98	19	eP	37	01.00	1.1
			eS	37	41.00	
DST	4.02	332	iPn	37	00.80	0.4
BHL	4.33	119	Pn	37	05.00	0.1
			Sn	37	49.00	
EYL	4.53	351	ePn	37	08.00	0.4
ADI	4.54	130	eP	37	10.00	2.3
YLV	4.67	344	ePn	37	09.00	-0.5
KCT	4.68	333	ePn	37	05.00	-4.6X
BNT	4.94	331	ePn	37	12.00	-1.2
ZNT	5.04	138	eP	37	17.00	2.4
			eS	38	06.00	
BURJ	5.48	133	Pd	37	22.19	1.4
JARJ	5.56	132	Pd	37	21.91	-0.1
SALJ	5.58	135	P	37	21.72	-0.4
MASJ	5.81	137	Pd	37	24.68	-0.6
MKRJ	5.90	139	P	37	26.40	-0.2
KOT	6.17	174	ePn	37	27.50	-2.7
			eSn	38	34.00	
MDSJ	6.18	134	P	37	31.03	0.5
CSTJ	6.80	135	Pc	37	36.93	-2.1
MBH	7.06	152	eP	37	46.00	3.4X
S. D. = 1.6 an 23 of 25 obs.						

20.866 S \pm 13.1km 176.305 W \pm 24.9km
 DEPTH = 233.5 \pm 33.1 km
 4.3mb (5 obs.)

FIJI ISLANDS REGION

(181)

VUN 5.70 299 ePd 39 47.30 0.7
 PVC 14.85 279 iPc 41 39.50 -2.8
 DZM 16.10 263 iPc 42 00.20 2.6
 MNG 20.90 198 eP 42 45.10 -2.0
 LTZ 23.87 201 eP 43 15.70 0.0
 MMCZ 26.91 203 eP 43 42.70 -0.8
 ASPA 45.98 257 iPd 46 23.70 -0.2
 1.0s 12.40nm 4.2mb
 CSY 64.32 205 eP 48 36.70 2.4
 SPA 69.26 180 iPc 49 06.10 0.6
 1.0s 26.00nm 4.9mb
 TNP 80.70 43 P 50 11.00 0.4
 PNT 86.08 33 eP 50 38.00 0.7
 0.7s 5.00nm 4.5mb
 ALO 86.40 51 eP 50 40.00 0.5
 1.0s 2.50nm 4.0mb
 e 51 35.00
 FBA 88.27 12 P 50 47.00 -0.5
 GOL 89.40 47 P 50 53.20 -0.5
 SES 91.24 36 eP 51 02.00 0.4
 INK 94.22 15 eP 51 14.00 -0.8
 YKA 96.19 24 eP 51 23.20 -0.7
 0.8s 0.90nm 4.1mb
 KSP 148.48 345 ePKP 57 42.80 4.6X
 CLL 148.75 349 ePKP 57 43.00 4.4X
 BRG 148.98 347 ePKP 57 43.50 4.5X
 1.2s 15.00nm
 e 58 41.50
 MOX 149.63 350 ePKP 57 45.50 5.5X
 PRU 149.69 346 PKP 57 46.00 5.9X
 KHC 150.71 347 PKP 57 48.20 6.5X
 e 58 42.00
 DOU 150.82 359 PKP 57 48.60 6.8X
 S.D. = 1.5 on 17 of 24 obs.

APR 15, 1991 07h 19m 22.00 \pm 0.55s
 17.867 N \pm 9.2km 94.792 W \pm 7.0km
 DEPTH = 142.8 \pm 7.5 km
 4.0mb (4 obs.)

CHIAPAS, MEXICO

(61)

OXX 2.00 247 iPd 19 55.30 -2.0
 iS 20 20.65
 SCX 2.35 118 iP 20 02.42 1.1
 iS 20 30.36
 LVVM 2.43 320 iP 20 01.27 -1.1
 IISM 2.70 295 iP 20 04.90 -0.8
 iS 20 34.05
 IIT 3.53 290 iP 20 17.30 0.4
 TPX 3.82 140 (P) 20 20.44 0.0
 PPM 3.83 289 eP 20 21.42 0.3
 IIA 3.88 290 iP 20 21.89 0.6
 UNM 4.41 290 iP 20 29.50 0.9
 IIL 4.48 277 iP 20 28.23 -1.2
 CRX 4.88 289 eP 20 35.57 0.6
 ACX 4.94 259 (P) 20 36.33 0.9
 MRX 6.33 288 iP 20 55.02 0.8
 TUL 17.99 357 ePd 23 23.30 -1.1
 0.6s 6.00nm 4.1mb
 ALO 19.93 331 eP 23 45.60 0.6
 0.9s 5.46nm 4.0mb
 ANMO 19.93 331 P 23 46.00 1.0
 GOL 23.61 339 P 24 22.50 1.2
 FFC 37.20 353 eP 26 21.00 0.2
 0.6s 10.00nm 4.8mb
 YKA 46.68 348 eP 27 36.70 -1.0
 0.6s 1.40nm 3.8mb
 FRB 49.23 15 eP 27 57.00 -0.4
 INK 55.99 344 ePd 28 46.70 -0.7
 WB2 133.59 259 ePKP 38 23.20 -0.7
 0.6s 1.30nm
 WRA 133.60 259 PKP 38 24.00 0.1
 1.9s 1.60nm
 S.D. = 1.0 on 23 of 23 obs.

APR 15, 1991 07h 29m 28.91 \pm 1.36s
 19.415 N \pm 9.6km 65.730 W \pm 20.4km
 DEPTH = 33.0km (normal)
 3.3mb (1 obs.)

PUERTO RICO REGION

(90)

LPR 1.11 187 P 29 48.10 -0.1

S 30 02.80
 SJG 1.36 197 iP 29 52.00 0.3
 CPD 1.38 187 P 29 52.00 -0.1
 LRS 1.54 224 P 29 54.30 -0.1
 MGP 1.90 223 P 29 59.60 0.0
 YKA 54.49 335 eP 38 55.40 0.0
 0.6s 0.20nm 3.3mb
 S.D. = 0.2 on 6 of 6 obs.

APR 15, 1991 07h 34m 04.55 \pm 0.79s
 40.111 N \pm 6.7km 142.544 E \pm 10.8km
 DEPTH = 60.5 \pm 8.0 km
 4.5mb (6 obs.)

NEAR EAST COAST OF HONSHU, JAPAN(228)

OFUJ 1.23 214 iPd 34 25.70 -0.2
 S 34 41.90
 AOMJ 1.72 286 P 34 31.00 -1.6
 HOOJ 2.34 14 eP 34 41.90 0.7
 eS 35 11.80
 MRRJ 2.56 335 eP 34 44.10 -0.3
 eS 35 14.10
 YAMJ 2.75 226 P 34 48.10 1.0
 eS 35 21.80
 KUSJ 3.40 28 P 34 54.10 -2.1
 eS 35 31.90
 NIJJ 3.99 225 P 35 05.30 0.8
 ASAJ 4.01 1 eP 35 05.80 1.0
 KAKJ 4.32 206 P 35 07.00 -2.2
 CHJJ 4.93 216 P 35 17.80 0.0
 MTMJ 5.12 228 P 35 21.90 1.2
 TSRJ 6.91 231 P 35 47.30 1.8
 FBA 46.04 34 P 42 25.00 1.6
 GUN 47.79 273 P 42 38.02 -0.1
 0.8s 18.00nm 5.1mb
 KKN 48.31 274 P 42 42.26 0.2
 0.8s 20.00nm 5.2mb
 PKI 48.33 273 P 42 41.06 -1.2
 DMN 48.54 274 P 42 43.92 0.1
 GKN 48.70 274 P 42 44.60 -0.3
 0.6s 5.00nm 4.7mb
 INK 51.26 28 eP 43 05.00 1.3
 WB2 60.23 189 eP 44 07.70 -0.9
 1.2s 1.30nm 3.9mb
 i 44 22.00
 WRA 60.23 189 P 44 08.00 -0.6
 0.8s 0.90nm 4.0mb
 NB2 71.69 337 P 45 21.20 -0.3
 0.8s 2.70nm 4.2mb
 S.D. = 1.2 on 22 of 22 obs.

APR 15, 1991 07h 46m 23.90 \pm 1.10s
 40.669 N \pm 9.7km 22.994 E \pm 11.5km
 DEPTH = 10.0km (geophysicist)

GREECE (364)

THE 0.04 211 ePd 46 25.98 0.0
 eS 46 27.58
 SOH 0.31 61 ePc 46 29.74 -0.7
 eS 46 33.98
 KNT 0.50 352 ePd 46 33.78 -0.2
 eS 46 41.74
 SRS 0.64 45 iPd 46 37.62 0.9
 eS 46 45.90
 S.D. = 1.2 on 4 of 4 obs.

APR 15, 1991 08h 06m 09.06 \pm 1.05s
 36.951 N \pm 11.7km 29.454 E \pm 7.6km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 3.4 (ISK).

ELL 0.42 119 iPg 06 17.50 -0.1
 eSg 06 26.00
 YER 0.96 281 ePn 06 27.40 0.1
 BCK 1.04 60 iPn 06 29.00 0.3
 KHL 1.37 2 ePn 06 34.00 -0.3
 S.D. = 0.4 on 4 of 4 obs.

APR 15, 1991 08h 26m 49.80 \pm 0.75s
 44.399 N \pm 5.9km 7.401 E \pm 7.4km
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)

ML 1.7 (GEN).

STV 0.16 200 P 26 53.63 0.0
 S 26 56.40

ENR 0.17 175 P 26 53.63 -0.1
 S 26 56.40
 PZZ 0.24 296 P 26 55.17 0.2
 S 26 58.96
 ROB 0.35 107 P 26 57.22 0.1
 S 27 03.17
 BHB 0.45 348 P 26 58.86 -0.2
 S 27 05.53
 S.D. = 0.2 on 5 of 5 obs.

APR 15, 1991 09h 13m 00.21 \pm 1.30s
 30.708 S \pm 15.5km 68.907 W \pm 24.3km
 DEPTH = 90.0km (geophysicist)

SAN JUAN PROVINCE, ARGENTINA (137)

RTRS 0.72 318 iPc 13 17.10 0.0
 S 13 31.60
 RTLL 0.72 149 iPc 13 17.20 -0.1
 RTCB 0.78 173 iPd 13 18.00 0.1
 eS 13 31.50
 RTBS 1.06 206 iPc 13 20.80 0.0
 S.D. = 0.1 on 4 of 4 obs.

APR 15, 1991 09h 37m 14.32s
 61.878 N 152.246 W
 DEPTH = 128.2km
 SOUTHERN ALASKA (2)
 <AEIC>.

SKT 0.35 73 iPd 37 31.80 0.8
 eS 37 45.23
 NCG 0.48 175 iPc 37 32.69 -0.8
 CRP 0.61 176 eP 37 33.89 -0.5
 eS 37 49.07
 BGL 0.62 186 eP 37 33.66 -0.7
 CKL 0.69 184 ePd 37 34.11 -0.7
 eS 37 49.95
 SPU 0.70 172 iPc 37 34.01 -0.9
 SUA 0.83 119 iPc 37 35.57 -0.4
 eS 37 51.23
 CUT 1.07 59 iPd 37 37.25 -0.7
 PWA 1.15 100 ePc 37 38.34 -0.4
 eS 37 57.19
 NKA 1.24 156 eP 37 40.61 0.9
 DFR 1.31 190 ePd 37 40.02 -0.6
 RDT 1.31 183 iPd 37 39.96 -0.7
 eS 38 00.25
 NCT 1.36 194 eP 37 40.50 -0.7
 RDN 1.39 191 iPd 37 41.08 -0.5
 REF 1.41 189 ePd 37 41.32 -0.5
 S 38 01.72
 RDW 1.43 191 iPd 37 41.72 -0.3
 eS 38 02.72
 PMS 1.43 115 ePc 37 41.09 -0.9
 eS 38 01.95
 RS2 1.44 190 iPd 37 41.82 -0.4
 eS 38 03.45
 RSO 1.44 190 ePd 37 41.80 -0.4
 eS 38 02.98
 RED 1.49 190 ePd 37 42.10 -0.5
 PLRM 1.51 100 ePc 37 41.03 -1.7
 eS 38 02.46
 GH0 1.58 92 ePc 37 42.52 -1.1
 eS 38 04.29
 HUR 1.64 47 ePd 37 43.17 -1.1
 eS 38 05.40
 SLKM 1.69 144 eP 37 44.48 -0.4
 S 38 06.06
 SVW 1.79 246 eP 37 44.98 -1.2
 TRF 1.82 29 eP 37 45.50 -1.1
 KNK 1.87 103 ePc 37 45.46 -1.6
 eS 38 10.04
 NNL 1.90 165 eP 37 47.77 0.4
 TTA 2.05 303 ePc 37 47.81 -1.5
 RND 2.19 44 ePd 37 49.67 -1.5
 SEW 2.24 141 eP 37 50.35 -1.3
 PDB 2.30 205 iPd 37 51.91 -0.5
 SCM 2.33 89 ePd 37 51.28 -1.6
 CNPM 2.41 168 eP 37 52.36 -1.5
 KNIM 2.67 123 ePc 37 54.27 -3.0
 GLI 2.67 110 eP 37 54.76 -2.5
 LTI 2.83 129 ePc 37 56.74 -2.5
 TOA 2.88 83 eP 37 58.44 -1.5
 MCNL 2.89 202 eP 37 59.65 -0.4
 VLZ 2.93 102 eP 37 58.66 -1.9
 MTU 2.94 128 eP 37 58.67 -2.0
 KLU 3.04 95 iPc 38 00.38 -1.7

15d 09h

NEA 3.07 26 eP 38 00.27 -2.1	KOD 26.57 166 eP 54 29.10 1.1	0.4s 22.00nm 5.3mb
SDG 3.21 75 eP 38 03.55 -0.7	CD2 27.44 92 P 54 36.80 1.3	VAY 37.93 293 eP 56 06.70 0.5
WRH 3.21 34 iPd 38 02.25 -2.1	KVT 27.84 291 eP 54 41.00 2.1	NUR 38.13 324 iP 56 08.30 0.8
PAX 3.34 68 ePd 38 04.69 -1.4	IRK 28.14 45 eP 54 41.20 -0.3	GZH 38.49 98 P 56 12.00 1.0
CCB 3.43 34 eP 38 05.12 -2.0	e 55 07.80 124km	SKO 38.67 294 iP 56 12.40 0.0
RDS 3.49 30 eP 38 05.75 -2.3	e 56 08.90	SPC 38.94 306 eP 56 15.30 0.6
HDA 3.49 41 eP 38 06.22 -1.8	e 01 44.20	e 57 52.00 543kmX
DDM 3.50 54 eP 38 07.86 -0.3	e 02 24.00	PSZ 39.20 304 iP 56 18.00 1.2
MDM 3.58 29 ePd 38 07.08 -2.2	e 04 04.00	NJ2 39.21 82 Pd 56 17.60 0.7
FBA 3.64 31 ePd 38 08.73 -1.2	e 04 07.00	S 02 11.00
GLM 3.81 33 ePd 38 10.58 -1.7	e 04 58.00	OHR 39.28 293 eP 56 29.30 11.8X
GLB 4.05 92 eP 38 13.88 -1.6	KMSA 28.36 243 ePc 54 43.30 -0.6	SNG 39.45 130 eP 56 19.80 0.8
DOT 4.16 61 eP 38 15.49 -1.5	HRI 29.31 275 eP 54 55.00 2.7X	BUD 39.81 303 eP 56 22.80 1.1
55 obs. associated	KAS 29.54 291 eP 54 58.50 4.2X	SOD 40.00 335 iP 56 23.80 0.8
APR 15, 1991 10h 48m 59.38±0.15s	CHG 29.89 118 ePc 54 58.00 0.6	UZD 40.18 302 eP 56 25.90 1.2
36.340 N ± 4.0km 71.358 E ± 2.6km	1.0s 12.50nm 4.6mb	AAE 40.19 236 eP 56 28.30 2.8X
DEPTH = 123.5km (5 depth phases)	DSI 30.11 271 eP 55 01.50 2.3	SRO 40.27 304 iP 56 26.70 1.3
5.3mb (90 obs.)	OBN 30.23 319 iP 55 00.00 0.0	SNY 40.39 66 eP 56 26.60 0.2
AFGHANISTAN-USSR BORDER REGION (717)	1.2s 242.00nm 5.8mb	Z 14s 0.50um 4.5MsZx
Felt (IV) at Khorog, (III) at	Z 24s 0.80um 4.3MsZx	E 10s 0.20um
Kulyob and (II) at Somorkond,	N 24s 0.60um	S 02 21.00
USSR.	E 24s 0.60um	KEV 41.06 338 iP 56 32.80 1.2
CENTROID, MOMENT TENSOR (HRV)	e 55 32.00	0.8s 33.70nm 5.1mb
Data Used: GDSN	ipP 55 42.00 206kmX	ZST 41.06 304 eP 56 33.00 1.1
L.P.B.: 16S, 33C	i 55 54.00	e 56 51.20 74kmX
Centroid Location:	ePPP 56 11.00	e 58 04.10
Origin Time 10:49: 3.5 0.6	e 57 04.00	i 58 12.70
Lat 36.12N 0.06 Lon 71.54E 0.07	eS 59 50.00	i 58 20.20
Dep 127.8 2.3 Half-duration 1.7	e 00 44.00	UPP 41.38 322 iPc 56 34.40 0.1
Moment Tensor: Scale 10 ¹⁷ Nm	iSS 01 30.00	SSE 41.41 82 Pc 56 36.20 1.3
Mrr= 0.68 0.05 Mtt=-1.10 0.07	BTO 30.40 70 eP 55 03.00 1.2	1.0s 27.00nm 4.9mb
Mff= 0.41 0.08 Mrt=-0.60 0.05	N 10s 0.60um	Z 20s 0.50um 4.4MsZ
Mrf= 0.31 0.05 Mtf=-0.49 0.07	E 10s 0.30um	PP 57 04.00
Principal Axes:	BBTK 30.42 288 iPd 55 03.00 1.0	SP 57 14.00
T Vol= 1.15 Plg=51 Azm=239	BDT 30.98 121 P 55 07.20 0.2	S 02 42.00
N 0.22 36 87	MBH 31.14 268 eP 55 10.50 2.1	SS 03 28.00
P -1.37 14 347	HOL 31.19 267 ePc 55 10.10 1.4	KSP 41.46 308 iP 56 36.30 1.1
Best Double Couple: Mo=1.3*10 ¹⁷	WAJH 31.28 261 eP 55 11.70 2.2	1.3s 76.00nm 5.3mb
NP1: Strike= 39 Dip=44 Slip= 33	HHC 31.55 69 eP 55 11.60 -0.3	i 57 10.00 152kmX
NP2: 284 68 129	0.8s 20.00nm 4.9mb	i 58 07.80
	E 10s 0.30um	IPM 41.74 132 ePc 56 39.10 1.3
	PP 55 38.00	0.7s 73.30nm 5.5mb
	SP 55 54.50	ZAG 42.05 301 eP 56 41.50 1.5
	PcP 58 03.00	PSI 42.05 136 ePd 56 41.80 1.5
	55 12.40 0.3	PTJ 42.06 301 eP 56 40.40 0.2
	GYA 31.56 98 P 55 12.40 0.3	HVAR 42.12 297 eP 56 40.50 -0.1
	8.0s 600.00nm 5.4mb X	BSD 42.33 315 iPc 56 41.70 -0.5
	KHT 32.43 124 eP 55 20.30 0.7	0.7s 52.00nm 5.4mb
	TIY 32.64 75 eP 55 22.00 0.6	i 58 19.00 534kmX
	Z 12s 0.48um 4.4MsZx	VBV 42.60 300 ePd 56 46.50 2.0
	E 13s 0.37um	PRU 42.62 307 iP 56 46.00 1.4
	PP 55 48.00	1.2s 64.40nm 5.2mb
	S 00 33.00	e 58 32.50 615kmX
	SS 01 16.50	e 58 44.60
	HRT 32.67 291 eP 55 24.00 2.4	BRG 42.95 308 iPc 56 48.40 1.1
	NST 32.85 121 eP 55 28.00 4.7X	1.3s 140.00nm 5.5mb
	YLV 32.92 290 iP 55 24.00 0.2	i 57 16.10 121km
	ELL 33.12 283 iP 55 25.50 -0.1	i 58 29.30
	KHL 33.12 286 iP 55 25.80 0.2	i 58 37.00
	CFR 33.56 299 eP 55 28.00 -1.1	LJU 43.02 301 eP 56 48.50 0.5
	DST 33.61 289 eP 55 30.00 0.2	KMR 43.05 304 iP- 56 49.90 1.7
	IAS 34.01 302 eP 55 31.00 -2.0	iPP 58 33.70
	BNT 34.05 290 iP 55 34.90 1.4	CEY 43.14 301 eP 56 49.40 0.4
	EDC 34.09 290 eP 55 34.00 0.2	RIY 43.23 300 eP 56 49.30 -0.3
	JMB 34.82 294 eP 55 41.00 1.0	KHC 43.31 306 iP 56 51.30 1.0
	CVO 34.95 300 iPc 55 45.50 4.4X	1.3s 24.00nm 4.8mb
	MLR 35.11 299 ePc 55 44.00 1.4	e 58 33.00 568kmX
	BJI 35.14 70 eP 55 43.50 0.8	BRN 43.34 311 eP 56 52.00 1.6
	0.6s 20.00nm 5.1mb	HFS 43.37 322 eP 56 50.70 0.1
	eS 01 08.00	1.0s 256.60nm 5.9mb
	eScP 01 42.50	Z 15s 0.30um 4.3MsZx
	PVL 35.67 296 iPc 55 49.00 1.9	LR 14 22.00
	CMP 35.76 299 ePc 55 51.00 3.1X	MGR 43.39 293 P 56 51.20 0.2
	KDZ 35.77 293 eP 55 50.00 2.0	SGO 43.47 293 P 56 52.60 1.0
	WHN 36.11 87 Pc 55 52.50 1.5	CLL 43.52 309 iPc 56 52.20 0.3
	1.4s 100.00nm 5.5mb	1.4s 105.00nm 5.4mb
	PP 56 22.80	43.60 301 ePd 56 53.00 0.3
	S 01 24.00	i 58 33.10 553kmX
	RZN 36.28 293 iP 55 53.00 0.4	KBA 43.70 303 iPc 56 54.40 0.7
	PGB 36.59 295 iP 55 56.00 1.0	1.2s 31.40nm 4.9mb
	TIA 36.63 76 Pd 55 56.40 1.1	i 57 09.40 58kmX
	1.4s 100.00nm 5.5mb	i 57 44.40
	MMB 37.03 293 ePd 56 00.00 1.3	WET 43.77 306 eP 56 55.00 1.0
	DEV 37.23 300 ePd 56 04.00 3.8X	DUI 43.86 295 P 56 56.10 1.2
	VTS 37.29 295 iPd 56 03.00 2.1	BHG 43.93 304 eP 56 56.10 0.8
	OIZ 37.90 107 eP 56 06.90 0.8	0.9s 39.00nm 5.1mb
	KAF 37.92 327 iP 56 06.50 0.7	YAK 43.94 35 iP 56 54.00 -1.2

		iP	57	22.00	122km	PZZ	48.47	301 P	57	29.36	-1.8	AKU	57.31	331 eP	58	38.00	2.0
		i	57	40.00		LPG	48.48	302 eP	57	30.30	-1.1		0.9s	40.34nm			5.4mb
		ePP	58	42.00			0.8s	53.05nm			5.4mb	EHUE	57.52	296 eP	58	37.50	-0.5
		ePcP	58	51.00		LPL	48.49	302 eP	57	30.20	-1.2	GUD	57.55	299 eP	58	37.50	-0.7
		ePPP	59	18.00			0.9s	62.25nm			5.4mb	VAL	57.57	313 eP	58	36.00	-1.9
		iS	03	15.00		RSL	48.52	302 P	57	31.09	-0.5	ENIJ	57.57	294 eP	58	37.10	-1.2
		ePS	03	33.00		RRL	48.59	301 P	57	31.51	-0.7	TOL	57.77	298 iPd	58	39.00	-0.6
		ePS	03	35.00		BNI	48.63	301 P	57	32.50	0.1		0.8s	44.78nm			5.5mb
		esS	03	58.00		DOU	48.97	308 Pc	57	35.10	0.3			eS	06	33.00	
		eScS	06	35.00		UCC	48.99	309 P	57	36.90	2.0	EBAN	58.25	296 eP	58	42.00	-1.0
FVI	44.15	302 P	56	57.50		FRF	49.01	299 eP	57	33.70	-1.5	AFC	58.44	295 eP	58	42.70	-1.8
MDJ	44.23	61 eP	56	57.50	-0.2		0.9s	37.65nm			5.2mb	ECOG	58.44	295 eP	58	43.00	-1.5
RFI	44.28	295 P	56	59.25	1.1	SNF	49.09	309 iPd	57	36.53	0.9	TRT	58.48	130 ePc	58	39.00	-5.7X
	0.9s	139.00nm			5.7mb	NAI	49.32	228 iPc	57	39.30	1.2	EPLA	59.14	299 eP	58	48.20	-0.9
MOX	44.44	308 iP	57	00.00	0.6		1.3s	173.08nm			5.7mb	MAL	59.29	295 eP	58	48.00	-2.1
	1.6s	123.00nm			5.4mb	LBF	50.01	304 eP	57	40.90	-2.0	EHOR	59.44	297 eP	58	50.00	-1.2
AZI	44.53	296 P	57	01.56	1.4		0.8s	18.15nm			5.0mb	IFR	61.19	292 iP	59	03.00	-0.4
	0.2s	7.80nm			5.1mb	LOR	50.03	305 eP	57	40.90	-2.0			i	59	43.00	171kmX
ARV	44.57	298 P	57	01.40	0.9		1.1s	35.15nm			5.2mb	GDH	67.25	342 iPc	59	41.90	-0.1
NB2	44.68	323 P	57	00.90	-0.3	Z	20s	0.15um			4.0Msz		0.9s	134.45nm			5.8mb
GRF	44.79	307 eP	57	03.70	1.6	SSB	50.04	302 P	57	42.61	-0.5	BRW	67.38	15 eP	59	43.20	0.5
	1.8s	261.00nm			5.7mb	SMF	50.18	304 eP	57	42.30	-1.8	ANM	70.07	23 ePd	00	00.00	0.6
Z	19s	0.10um			3.8Msz	SSF	50.31	305 eP	57	43.20	-1.8	IMA	72.19	18 ePc	00	11.60	-0.6
		e(pP)	57	23.70	82kmX		1.2s	69.90nm			5.4mb		0.8s	11.00nm			4.7mb
		e(sP)	57	32.00		AVF	50.47	304 eP	57	44.40	-1.9	MBL	73.27	133 iPc	00	18.90	0.0
WTTA	44.83	303 iPc	57	02.10	-0.6	PLDF	50.49	303 P	57	46.71	0.1		0.9s	54.00nm			5.3mb
MNS	44.99	296 P	57	04.30	0.4	GRC	50.54	305 P	57	47.17	0.4	SLR	73.91	220 iPc	00	23.00	0.3
CTI	45.01	302 P	57	03.90	-0.1	AGO	50.80	303 P	57	48.71	-0.2		1.2s	101.56nm			5.5mb
SQTA	45.12	303 iPc	57	04.10	-0.8	BGF	50.87	304 eP	57	47.30	-2.0	INK	74.02	9 iPc	00	22.10	-0.5
	1.3s	57.00nm			5.1mb		0.9s	27.85nm			5.1mb		0.6s	28.00nm			5.2mb
		i	57	07.20	10kmX	LBL	50.94	302 P	57	50.17	0.4	FBA	74.54	16 ePc	00	25.50	-0.2
		i	57	14.30		PYM	50.97	303 P	57	49.87	-0.3		0.7s	38.50nm			5.3mb
CRE	45.25	298 Pc	57	08.00	2.0	MAF	51.14	304 eP	57	50.00	-1.4	KNA	74.95	123 iPd	00	28.80	0.1
RGS	45.25	326 eP	57	05.50	0.0		0.9s	62.25nm			5.5mb		0.6s	31.00nm			5.3mb
SFI	45.26	299 Pc	57	06.70	0.8	TCF	51.36	304 eP	57	51.60	-1.5	KIC	75.07	267 Pc	00	28.00	-1.5
OGA	45.30	303 eP	57	06.20	-0.3	CAF	51.83	302 eP	57	55.20	-1.4		0.8s	20.50nm			5.0mb
PGD	45.36	299 P	57	08.40	1.5		0.9s	27.85nm			5.1mb	TIC	75.13	267 Pc	00	28.22	-1.6
OSS	45.93	303 ePc	57	11.00	-0.4	LSF	51.83	304 eP	57	54.40	-2.2	PRY	75.30	220 iPd	00	40.50	9.8X
MME	46.02	299 P	57	12.90	0.7		0.9s	47.15nm			5.4mb		1.0s	85.00nm			5.5mb
BDI	46.12	299 P	57	14.20	1.4	EDR	51.96	318 eP	57	57.80	0.3	FRB	75.38	343 ePc	00	30.00	0.0
VDL	46.42	303 ePc	57	15.30	0.0		0.9s	67.00nm			5.5mb		0.3s	20.00nm			5.4mb
LLS	46.67	303 ePc	57	16.10	-1.2	RJF	52.09	303 eP	57	57.20	-1.4	LIC	75.38	267 Pc	00	29.70	-1.6
BOB	46.77	300 P	57	18.70	0.7		1.2s	53.55nm			5.3mb		0.7s	14.00nm			4.8mb
SLE	46.85	305 ePc	57	18.50	0.0	Z	21s	0.15um			4.0Msz	SVW	75.63	22 ePd	00	33.00	1.0
ZLA	46.97	304 ePc	57	19.40	0.0	ESY	52.19	317 eP	57	59.30	0.2	SEK	76.36	219 iPc	00	46.00	9.4X
VAL	47.02	302 P	57	19.40	-0.3		1.0s	69.00nm			5.5mb		0.4s	186.44nm			6.2mb
FEL	47.15	305 eP	57	19.90	-1.0	EDU	52.29	318 eP	57	59.90	0.1	RSO	76.99	21 P	00	39.60	-0.2
BNS	47.20	309 ePd	57	24.30	3.2X		1.0s	81.00nm			5.6mb	PMR	77.03	19 ePd	00	39.50	-0.2
	1.5s	142.00nm			5.5mb	LDF	52.30	307 eP	57	58.00	-2.1	PDB	77.11	22 P	00	39.00	-1.2
GWf	47.22	306 P	57	21.82	0.5		1.0s	50.00nm			5.4mb	TOA	77.32	17 ePc	00	42.10	0.7
WIT	47.28	312 eP	57	23.00	1.3	FLN	52.49	308 eP	57	59.10	-2.4	SLKM	77.65	20 P	00	41.50	-1.7
		e	59	16.00	645kmX		1.0s	68.00nm			5.5mb	KLU	77.91	17 P	00	44.20	-0.5
WTS	47.29	311 iPd	57	23.00	1.2	Z	18s	0.13um			4.0Msz	BAL	79.03	141 eP	00	49.80	-1.2
	0.7s	40.00nm			5.3mb	LPO	52.49	302 eP	57	59.70	-1.9	BALM	79.14	16 P	00	51.00	-0.5
		e	59	16.00	645kmX		0.9s	13.10nm			4.8mb	MUN	79.89	142 eP	00	54.50	-1.1
PCP	47.45	300 P	57	22.59	-0.7	EDI	52.50	317 eP	58	01.80	0.4	KLB	80.35	141 eP	00	57.00	-1.1
WLS	47.49	306 P	57	23.47	0.0		0.9s	62.00nm			5.5mb	NWAO	81.16	142 eP	01	01.00	-1.3
MMK	47.53	302 ePc	57	24.30	0.2	EKA	52.60	316 Pd	58	02.00	-0.2	YKA	81.39	3 eP	01	02.50	-0.6
CDF	47.54	306 P	57	23.40	-0.5		1.3s	111.80nm			5.6mb		0.7s	34.50nm			5.2mb
PGF	47.60	298 eP	57	22.40	-2.1	EBH	52.61	317 ePd	58	02.90	0.6	WRA	81.66	122 P	01	04.00	-1.2
	1.0s	30.00nm			5.0mb		0.8s	84.00nm			5.7mb		0.7s	30.10nm			5.2mb
ORO	47.61	302 P	57	23.20	-1.3	ELO	52.68	318 eP	58	02.90	0.1	WB2	81.73	122 iPd	01	04.20	-1.0
ECH	47.65	305 P	57	24.11	-0.6		1.2s	54.00nm			5.3mb		0.7s	30.10nm			5.2mb
MOF	47.73	305 P	57	24.97	-0.5	LFF	52.73	303 eP	58	01.70	-1.5	RKG	81.98	143 eP	01	08.00	1.5
FIN	47.76	300 P	57	24.23	-1.4		0.8s	22.85nm			5.1mb	SCH	82.35	337 eP	01	09.00	0.7
BAG	47.79	101 eP	57	27.90	1.6	GRR	52.83	307 eP	58	01.50	-2.4	ASPA	83.92	125 iPc	01	16.00	-0.7
DIX	47.90	303 ePc	57	26.90	-0.1		1.1s	65.95nm			5.5mb		0.7s	30.80nm			5.3mb
BSF	47.96	305 eP	57	25.50	-1.7	MFF	52.85	305 eP	58	01.90	-2.2			i	01	47.90	124km
	0.8s	36.95nm			5.2mb		1.0s	28.00nm			5.1mb			iS	11	23.00	
ROB	47.98	300 P	57	26.90	-0.4	EAB	53.08	317 ePd	58	06.40	0.7	FORR	85.42	134 eP	01	24.00	0.0
MEM	47.99	309 iPd	57	28.11	0.9		0.8s	47.00nm			5.5mb	QIS	85.73	119 iPc	01	24.70	-1.1
ENN	48.02	309 eP	57	28.50	1.1	NIIJ	53.09	67 P	58	04.70	-1.2		0.4s	14.00nm			5.2mb
	0.7s	17.00nm			4.9mb	TSM	53.47	115 ePc	58	08.00	-1.0	FFC	89.12	356 eP	01	41.50	-0.2
		e	59	23.00	654kmX	CHJJ	53.51	69 P	58	08.30	-0.8		1.1s	62.00nm			5.6mb
IMI	48.06	300 P	57	27.00	-0.9	YAMJ	53.52	66 P	58	08.30	-0.8	CTA	90.21	115 iPc	01	46.40	-0.8
RSP	48.21	301 P	57	27.41	-1.8	EPF	53.58	300 eP	58	06.70	-2.9		0.8s	42.54nm			5.6mb
LSD	48.21	302 P	57	29.36	0.0		0.7s	7.70nm			4.7mb	EDM	90.71	3 iPc	01	49.50	0.4
HAU	48.22	305 eP	57	27.50	-1.6	BTH	53.93	301 e(P)c	58	19.00	6.9X	GAC	93.03	337 eP	02	02.00	2.2
	1.0s	24.00nm			4.9mb			iPp	58	30.00	37kmX	SES	93.61	2 ePc	02	02.60	0.1
Z	22s	0.15um			3.9Msz			iPcP	58	56.70		PNT	94.16	7 eP	02	05.00	-0.1
EMS	48.23	303 ePc	57	29.30	-0.1			pPcP	59	37.00			0.9s	19.00nm			5.4mb
BHB	48.27	301 P	57	28.03	-1.5			e(PP)	00	09.50		STK	94.46	127 eP	02	24.10	17.7X
ENR	48.31	300 P	57	29.87	0.0	KAKJ	54.34	68 P	58	13.70	-1.5		0.7s	2.10nm			
STV	48.37	300 P	57	29.67	-0.7	OFUJ	54.4										

PJG	2.37	61	eP	31	59.20	-1.5
GUA	2.39	63	eP	31	59.70	-1.3
			eS	32	29.30	
DAV	17.72	254	eP	35	30.00	1.1
RAB	19.01	150	iPc	35	45.00	0.1
			iS	39	20.00	
QCP	21.16	278	eP	36	13.00	5.4X
KAGJ	21.61	331	P	36	13.80	1.7
BAG	21.80	283	eP	36	15.80	1.5
			eS	40	15.00	
PMG	22.16	168	eP	36	16.00	-1.7
WKYJ	22.62	344	P	36	23.10	0.9
KUMJ	22.77	333	eP	36	24.60	1.0
TKSJ	22.85	341	eP	36	24.20	-0.1
IIDJ	23.34	350	P	36	29.70	0.6
CHJJ	23.73	352	P	36	32.20	-0.7
KAKJ	23.76	355	P	36	30.90	-2.3
TSRJ	23.78	346	P	36	32.80	-0.5
SHK	23.80	339	eP	36	33.80	0.2
SHNJ	24.03	336	P	36	36.90	1.1
YONJ	24.14	341	eP	36	37.60	0.7
MAT	24.33	351	P	36	38.00	-0.7
MTMJ	24.43	350	P	36	39.30	-0.5
NIJJ	24.91	353	P	36	44.60	0.4
YAMJ	25.73	355	P	36	53.70	1.7
OZH	25.96	302	Pd	36	56.00	1.7
	Z	20s	2.50um			4.7MsZ
	N	10s	0.87um			
	E	10s	0.41um			
OFUJ	26.54	358	eP	37	01.90	2.5
SSE	27.19	316	Pd	37	07.50	2.1
		1.0s	25.00nm			4.8mb
	Z	21s	1.90um			4.6MsZ
	N	13s	0.90um			
	E	13s	1.60um			
			S	41	40.00	
VSG	27.38	141	P	37	02.00	-5.4X
NJ2	29.35	315	Pc	37	27.00	2.1
	Z	20s	1.00um			4.4MsZ
	N	10s	0.80um			
	E	10s	0.80um			
			S	42	20.00	
GZH	29.85	295	P	37	36.00	6.5X
	E	10s	0.50um			
MRRJ	29.90	358	eP	37	31.40	1.7
ASAJ	31.56	360	eP	37	50.20	5.9X
WHN	31.81	309	P	37	47.00	0.3

		1.4 s	100.00nm			5.5mb
	E	12 s	0.80um			
			S	42	58.00	
OIZ		32.28	286 eP	37	51.00	0.1
	N	13 s	0.60um			
DL2		32.32	328 Pc	37	53.00	1.9
		1.4 s	200.00nm			5.8mb
	Z	20 s	0.90um			4.5MsZ
	N	10 s	0.40um			
	E	11 s	0.70um			
			eS	43	02.00	
CTA		32.52	174 iPd	37	52.90	-0.1
		1.1 s	174.68nm			5.8mb
			iS	43	15.00	
OIS		32.94	185 iPc	37	56.30	-0.3
		1.0 s	117.00nm			5.7mb
TIA		33.03	320 Pc	37	57.40	0.1
	Z	20 s	0.80um			4.4MsZ
	E	11 s	0.50um			
WB2		33.23	194 eP	37	58.20	-0.9
		0.8 s	60.40nm			5.5mb
SNY		33.70	334 Pc	38	02.00	-1.0
	Z	18 s	2.00um			4.9MsZ
	N	12 s	1.10um			
	E	14 s	1.40um			
			PP	38	13.00	
			PP	39	13.00	
			iS	43	27.00	
MDJ		33.97	343 eP	38	06.50	1.2
	N	10 s	0.87um			
	E	10 s	0.55um			
CN2		34.60	338 eP	38	10.00	-0.8
		4.0 s	300.00nm			5.6mb X
	Z	17 s	3.50um			5.2MsZ X
	N	15 s	0.80um			
	E	15 s	1.40um			
			eS	43	31.00	
TRT		35.99	238 ePc	38	20.60	-2.3
		0.6 s	50.20nm			5.6mb
BJI		36.09	324 Pc	38	23.50	0.1
		1.2 s	71.00nm			5.5mb
	Z	18 s	2.05um			4.9MsZ
	N	14 s	1.11um			
			eS	43	59.00	
GYA		36.60	298 P	38	30.00	1.9
	N	14 s	0.60um			
	E	14 s	1.00um			
ASPA		36.92	194 iPc	38	30.60	0.0
		0.5 s	33.40nm			5.5mb
	Z	18 s	3.80um			5.2MsZ
			eS	44	03.60	
			iScS	51	25.30	
TIY		36.93	318 Pd	38	31.40	0.8
		1.0 s	90.00nm			5.6mb
	Z	20 s	1.00um			4.6MsZ
	N	15 s	0.65um			
XAN		37.50	311 P	38	35.00	-0.5
	N	10 s	0.80um			
	E	10 s	0.70um			
			S	44	24.00	
RMQ		39.15	171 iPc	38	49.70	0.5
HHC		39.32	322 Pc	38	52.00	1.3
	Z	18 s	1.20um			4.8MsZ
	N	10 s	0.40um			
	E	12 s	0.80um			
			PP	39	09.00	
			SP	39	14.00	
KMI		39.74	294 Pd	39	02.00	7.4X
		2.0 s	101.00nm			5.3mb
	Z	18 s	0.70um			4.5MsZ
			pP	39	14.50	46kmX
BTO		40.12	320 P	38	58.00	0.7
	N	11 s	0.40um			
	E	15 s	0.80um			
CD2		40.34	303 P	38	59.40	0.3
		1.2 s	200.00nm			5.8mb
	E	10 s	1.10um			
BRS		40.79	166 iPd	39	03.50	0.7
DZM		41.45	146 iPc	39	09.00	0.6
SNG		41.79	267 eP	39	12.00	1.8
IPM		41.93	263 ePd	39	10.00	-2.3
LZH		42.14	311 Pd	39	14.50	0.5
		1.5 s				

COO	43.68	169	eP	39	29.00	2.6
CMS	43.79	176	eP	39	27.00	-0.2
PSI	44.42	261	ePc	39	39.50	6.9X
ADE	47.31	184	eP	39	55.50	0.3
	0.8s		62.69nm			5.7mb
COOL	47.82	205	eP	39	58.00	-1.3
CNB	47.92	173	eP	40	03.00	2.9X
BFD	49.36	180	eP	40	09.00	-2.0
BAL	49.59	210	eP	40	12.30	-0.6
TOO	49.82	177	eP	40	15.00	0.4
IRK	50.26	330	eP	40	17.70	-0.1
			e	40	41.80	
			e	47	31.00	
YAK	50.37	352	iP	40	17.90	-0.6
			epP	40	53.00	154kmX
			ePcP	41	40.00	
			ePP	42	23.00	
			eS	47	28.00	
			ePS	47	46.00	
LSA	50.67	298	eP	40	22.20	0.4
MUN	50.96	209	eP	40	22.00	-1.3
NWAO	51.27	208	eP	40	24.00	-1.7
GUN	55.07	295	P	40	53.58	-1.0
PKI	55.47	295	P	40	57.28	-0.1
KKN	55.60	295	P	40	57.14	-1.0
DMN	55.74	295	P	40	59.16	-0.1
GKN	56.18	295	P	41	01.14	-1.1
WMO	56.42	315	P	41	03.00	-0.7
Z	24s		0.80um			4.7MsZX
HYB	61.96	283	eP	41	41.50	-0.8
ANM	63.03	22	eP	41	46.60	-2.0
GBA	63.44	279	Pd	41	50.60	-1.4
	0.8s		5.50nm			4.7mb
KOD	63.88	275	eP	41	54.50	-0.9
SVW	65.64	28	eP	42	05.30	-0.4
PDB	65.89	30	P	42	06.50	-0.7
IMA	68.11	23	eP	42	21.80	0.4
PMR	68.77	28	P	42	23.00	-2.3
	0.8s		10.34nm			4.9mb
BRW	69.04	17	eP	42	26.40	-0.4
FBA	70.14	25	P	42	31.00	-2.6
QUE	71.64	298	eP	42	41.10	-2.6
AFR	72.99	113	iP	42	53.40	1.9
	1.2s		80.00nm			5.6mb
PPT	73.18	113	iP	42	54.80	2.2
	1.2s		80.00nm			5.6mb
PAE	73.21	113	iP	42	54.80	2.0
	1.2s		55.00nm			5.4mb
PPN	73.30	113	iP	42	55.40	2.1
	1.2s		60.00nm			5.4mb
TVO	73.55	113	iP	42	57.20	2.4
	1.2s		90.00nm			5.6mb
PMO	73.90	110	iP	42	58.40	1.6
	1.2s		55.00nm			5.4mb
TPT	74.15	110	iP	42	59.80	1.6
	1.2s		40.00nm			5.3mb
VAH	74.22	110	iP	43	00.00	1.4
	1.2s		30.00nm			5.1mb
RUV	74.43	110	iP	43	01.50	1.7
	1.2s		45.00nm			5.3mb
INK	76.21	22	eP	43	07.00	-2.1
GMW	83.93	43	P	43	50.00	-0.8
RMW	84.60	43	P	43	55.60	1.3
YKA	84.82	27	eP	43	52.70	-2.2
	0.9s		4.70nm			4.7mb
PNT	85.60	41	eP	43	58.00	-1.1
	1.0s		12.00nm			5.1mb
NEW	87.46	41	P	44	07.80	-0.5
	1.0s		12.50nm			5.1mb
OBN	88.89	326	eP	44	12.50	-2.4
Z	24s		1.10um			5.2MsZX
			ePcP	44	20.00	
			e	44	40.00	
BONR	8					

LR 42 04.00
LPB 149.90 101 PKP 51 13.80 6.3X
1.0s 132.00nm
CNCB 150.00 102 PKP 51 09.30 1.5
i 51 14.20
CCH 151.70 104 PKP 51 17.10 7.1X
SIV 156.67 101 PKP 51 17.00 0.5
PDCR 178.19 93 ePKP 51 31.10 -0.1
S.D. = 1.4 on 108 of 119 obs.

& APR 15, 1991 13h 04m 42.44s
60.337 N 151.277 W
DEPTH = 49.5km
KENAI PENINSULA, ALASKA (14)
<AEIC>. ML 2.8 (AEIC).

NNL 0.30 182 iPc 04 52.20 1.7
NKA 0.41 3 ePd 04 54.19 2.4
SLKM 0.55 71 eP 04 53.75 -0.1
BRLK 0.61 161 eP 04 54.28 -0.4
eS 05 03.99
RDT 0.61 293 iPd 04 54.44 -0.3
eS 05 04.21
HOM 0.71 195 ePc 04 56.10 0.1
S 05 06.58
REF 0.72 283 iPd 04 55.99 -0.5
eS 05 07.00
DFR 0.74 291 iPd 04 56.08 -0.6
eS 05 07.21
RSO 0.74 280 iPd 04 56.20 -0.6
eS 05 07.79
RS2 0.75 280 iPd 04 56.22 -0.6
RED 0.75 277 iPd 04 56.04 -0.7
eS 05 07.26
RDN 0.76 284 iPd 04 56.19 -0.8
eS 05 06.96
RDW 0.77 282 iPd 04 56.50 -0.8
eS 05 07.94
CNPM 0.81 179 iPc 04 56.88 -0.8
S 05 08.62
NCT 0.85 286 iPd 04 57.54 -0.8
eS 05 09.54
XLV 0.91 194 eP 04 59.07 -0.1
SPU 0.93 336 iPd 04 58.86 -0.6
S 05 12.19
SEW 0.94 104 eP 04 58.68 -0.9
S 05 12.66
CKL 1.01 329 iPd 05 00.04 -0.6
CRP 1.03 336 ePc 04 59.11 -1.9
S 05 14.51
BGL 1.08 330 iPd 05 01.17 -0.5
eS 05 15.94
NCG 1.15 338 iPd 05 02.32 -0.4
iS 05 18.50
SUA 1.16 13 ePc 05 02.55 -0.3
PMS 1.24 42 eP 05 04.33 0.5
PDB 1.56 251 ePc 05 07.49 -0.9
PLRM 1.64 39 eP 05 08.64 -0.8
SKT 1.65 356 ePc 05 09.71 0.0
LTI 1.74 98 ePd 05 08.85 -2.0
KNK 1.75 51 eP 05 10.13 -1.0
KNIM 1.76 88 iPc 05 08.92 -2.3
GHO 1.84 37 eP 05 10.54 -1.9
MTU 1.85 99 ePd 05 10.59 -1.9
CUT 2.13 13 eP 05 15.68 -0.8
KLU 2.86 64 ePc 05 24.95 -2.1
34 obs. associated

APR 15, 1991 13h 29m 47.48 ± 0.31s
53.334 N ± 6.1km 164.581 W ± 4.3km
DEPTH = 33.0km (normal)
4.9mb (28 obs.) 4.4Msz (1 obs.)
UNIMAK ISLAND REGION (10)

SDN 3.12 48 iPd 30 36.00 0.5
ADK 7.51 264 eP 31 37.30 -0.1
PDB 8.64 37 eP 31 52.00 -1.1
SVW 9.18 28 eP 32 00.30 -0.2
SVW 9.18 28 eP 32 01.00 0.5
0.6s 12.70nm 5.3mb
TTA 10.62 22 eP 32 20.00 -0.4
ANM 11.27 358 eP 32 30.00 0.8
PMR 11.70 39 ePd 32 33.10 -1.9
KLU 12.92 43 eP 32 47.00 -4.3X
TOA 13.14 41 ePd 32 50.40 -3.8X
0.6s 56.50nm 5.8mb
IMA 13.87 19 eP 33 05.30 1.4

FBA 14.38 30 ePd 33 07.70 -2.7X
SIT 17.04 66 eP 33 44.60 0.1
BRW 18.37 8 eP 34 01.20 0.4
INK 20.96 32 eP 34 26.00 -3.5X
0.7s 46.00nm 5.0mb
YKA 27.40 51 eP 35 31.90 0.5
0.6s 8.90nm 4.6mb
LON 27.91 86 eP 35 37.00 0.8
PNT 28.02 80 eP 35 43.00 5.8X
VGB 29.15 88 eP 35 48.00 0.6
LBFM 30.85 95 eP 36 03.50 0.8
WDC 30.93 97 ePc 36 17.80 14.6X
SES 32.55 73 eP 36 17.00 -0.3
BKS 32.86 101 eP 36 19.50 -0.6
CMB 33.85 99 eP 36 29.60 0.8
1.0s 15.00nm 4.9mb

BONR 35.14 97 eP 36 41.00 0.9
TNP 35.70 96 eP 36 45.20 0.4
1.0s 18.33nm 5.0mb
ISA 36.58 100 eP 36 53.00 1.0
CLC 36.99 99 eP 36 57.00 1.5
DUG 36.99 89 eP 36 56.20 0.6
0.8s 20.83nm 5.0mb
BW06 37.38 84 eP 36 58.50 -0.4
1.0s 12.50nm 4.7mb
SB8 37.64 101 eP 37 02.00 1.1
GSC 37.81 99 eP 37 04.00 1.6
MWC 37.82 101 eP 37 04.00 1.4
MSU 38.44 91 eP 37 08.50 0.6
PLM 39.14 101 eP 37 15.00 1.3
RSSD 39.87 78 eP 37 19.00 -0.6
1.0s 13.56nm 4.7mb
GLA 40.56 100 eP 37 27.00 1.8
GOL 41.76 84 eP 37 35.50 0.2
1.0s 30.00nm 5.0mb
ANMO 44.24 90 eP 37 55.00 -0.4
1.0s 32.50nm 5.1mb
CN2 45.52 288 eP 38 04.00 -1.3
TUL 49.95 81 ePd 38 38.20 -1.8
0.8s 27.90nm 5.3mb
FVM 51.70 76 eP 38 51.20 -2.0
SCH 52.74 46 eP 39 00.00 -0.9
ELC 52.87 75 eP 38 59.40 -2.6
GAC 54.73 59 eP 39 14.50 -1.1
HHC 55.25 293 eP 39 20.00 0.4
GBTN 56.89 73 eP 39 28.60 -2.7
KEV 56.93 355 eP 39 42.00 10.9X
0.8s 16.10nm 5.3mb
NAV 57.67 70 eP 39 34.90 -1.9
BLA 57.96 70 eP 39 37.00 -1.8
CVL 58.50 68 eP 39 41.00 -1.5
SOD 59.32 355 eP 39 46.00 -1.9
JSC 59.58 73 eP 39 47.50 -2.5
WHN 60.99 283 eP 39 55.00 -4.7X
GTA 62.57 300 eP 40 09.20 -1.2
0.8s 10.00nm 5.0mb
LZH 62.88 295 eP 40 17.50 5.0X
1.0s 15.00nm 5.1mb
Z 20s 0.24um 4.4Msz

PP 40 24.00
SP 40 30.00
KAF 64.58 354 iP 40 22.10 -0.9
NB2 65.93 2 P 40 30.90 -0.9
0.9s 4.30nm 4.5mb
NUR 66.27 355 eP 40 33.50 -0.4
CD2 66.79 291 eP 40 37.50 -0.3
HFS 66.88 1 eP 40 36.20 -1.6
0.9s 11.10nm 5.0mb
GYA 68.51 286 P 40 49.00 0.3
OBN 70.52 347 P 41 01.00 0.6
e 41 24.00
CLL 75.71 2 e(P) 41 45.00 14.2X
MOX 76.35 2 e(P) 41 35.00 0.6
GRF 77.29 3 eP 41 43.00 3.3X
e 41 54.00
SPC 77.77 357 eP 41 42.80 0.2
KHC 77.90 1 P 41 44.50 1.4
e 41 56.50
GUN 78.75 302 P 41 48.76 0.2
ZST 78.84 359 eP 41 48.90 0.7
KKN 79.15 302 P 41 50.42 -0.2
SRO 79.20 358 eP 41 51.20 1.0
PKI 79.27 302 P 41 51.26 -0.1
LOR 79.29 8 eP 41 50.70 0.0
1.0s 10.00nm 4.8mb
GKN 79.31 303 P 41 51.58 0.3

DMN 79.39 302 P 41 52.14 0.2
SSF 79.47 8 eP 41 51.80 0.1
0.9s 9.85nm 4.8mb
MFF 79.56 11 eP 41 52.50 0.3
1.1s 19.55nm 5.0mb
LBF 79.58 8 eP 41 52.20 -0.2
0.8s 8.05nm 4.8mb
AVF 79.72 8 eP 41 53.00 0.0
1.0s 12.00nm 4.8mb
SMF 79.91 8 eP 41 54.20 0.1
0.9s 11.45nm 4.9mb
KBA 79.95 1 iPc 41 53.20 -1.3
0.7s 11.20nm 5.0mb
i 41 56.20
i 42 08.60
i 42 16.20
LSF 80.09 10 eP 41 55.00 0.0
1.0s 18.00nm 5.0mb
TCF 80.12 9 eP 41 55.20 0.0
LPL 81.25 6 eP 42 02.80 1.4
LPG 81.27 6 eP 42 03.00 1.4
CAF 81.45 10 eP 42 02.70 0.4
BOB 82.14 4 P 42 07.90 2.0
SFI 83.08 3 P 42 13.00 2.4
SKO 84.93 355 iP 42 21.50 1.4
OHR 85.82 356 eP 42 25.50 0.9
1.5s 89.00nm 5.8mb
BBTK 85.99 347 eP 42 28.00 2.4
MGR 86.90 360 P 42 30.50 0.7
WB2 89.91 235 iPc 42 42.70 -1.6
0.6s 2.10nm 4.6mb
WRA 89.91 235 P 42 42.00 -2.3
0.7s 2.00nm 4.5mb
WRA 89.91 235 P 42 56.00 11.7X
1.8s 1.40nm
HYB 91.19 302 eP 42 50.50 0.0
e 43 03.00
GBA 94.97 300 P 43 07.70 -0.1
0.6s 2.60nm 4.8mb
BUL 145.34 338 iPKPd 49 23.80 0.3
1.0s 10.00nm
ipP 49 32.50

S.D. = 1.2 on 87 of 99 obs.
* APR 15, 1991 14h 15m 37.49 ± 1.21s
5.748 S ± 9.9km 76.920 W ± 19.0km
DEPTH = 34.9 ± 12.9 km
4.7mb (5 obs.)

NORTHERN PERU (111)
VC1 5.29 344 P 16 56.30 -0.4
NNA 6.20 179 iP 17 10.80 1.6
0.5s 10.56nm 4.8mb
eS 18 19.50
COTA 6.21 347 eP 17 11.50 1.8
PT10 6.29 180 eP 17 08.50 -1.9
eS 18 20.00
ZOBO 13.55 141 P 18 51.50 1.1
Z 20s 0.29um
LR 24 42.00
LPB 13.77 142 P 19 00.00 6.9X
CNCB 14.05 142 P 18 56.00 -0.9
i 19 07.00
CCH 15.65 139 eP 19 30.00 12.5X
SIV 18.58 124 P 19 53.00 -1.0
ALO 49.12 328 eP 24 23.50 -0.6
0.9s 9.45nm 4.8mb
ANMO 49.12 328 P 24 24.00 -0.1
GOL 52.29 332 P 24 46.50 -1.7
FFC 63.78 344 eP 26 07.00 -1.2
1.0s 7.00nm 4.7mb
PNT 66.21 331 eP 26 24.00 0.0
0.5s 4.00nm 4.8mb
KIC 73.04 82 P 27 15.40 8.9X
YKA 73.89 343 eP 27 09.00 -1.5
0.6s 2.10nm 4.3mb
INK 83.61 342 eP 28 03.00 -0.3
WRA 140.04 229 PKP 35 06.00 0.9
2.0s 2.60nm
GTA 146.36 5 PKP 35 17.20 1.6
TIY 147.06 346 ePKP 35 18.90 2.2
LZH 149.80 359 ePKP 35 21.50 0.3
GKN 151.78 36 PKP 35 31.80 7.4X
0.6s 14.00nm
KKN 152.31 36 PKP 35 33.00 7.8X
DMN 152.35 36 PKP 35 33.20 7.8X
PKI 152.55 36 PKP 35 33.40 7.7X

15d 14h

GUN 152.56 35 PKP 35 33.60 7.8X
S.D. = 1.4 on 18 of 26 obs.

% APR 15, 1991 14h 15m 49.74 ± 0.49s
44.369 N ± 4.6km 7.313 E ± 5.2km
DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)
ML 2.4 (GEN).

STV 0.13 176 P 15 53.06 0.2
S 15 54.80
DOI 0.14 340 Pc 15 53.50 0.3
eSg 15 56.50
ENR 0.16 152 P 15 53.67 0.1
PZZ 0.20 312 P 15 54.39 0.1
S 15 57.12
ROB 0.41 100 P 15 58.39 0.3
S 16 04.23
BHB 0.47 356 P 15 59.09 -0.3
IMI 0.62 138 P 16 01.67 -0.6
S 16 09.63
FIN 0.66 104 P 16 02.90 -0.1
S 16 11.82
RRL 0.67 326 P 16 03.00 -0.2
S 16 11.82
PCP 0.90 79 P 16 07.11 0.1
S 16 19.27
S.D. = 0.3 on 10 of 10 obs.

? APR 15, 1991 14h 33m 00.69 ± 0.89s
36.374 S ± 19.1km 97.255 W ± 14.5km
DEPTH = 10.0km (geophysicist)
4.7mb (8 obs.)

WEST CHILE RISE (686)

PEL 22.04 89 iPc 37 58.50 1.3
CNCB 32.44 61 P 39 34.70 0.9
LPB 32.54 60 P 39 38.00 3.4X
ZOBO 32.70 60 iPc 39 36.20 0.0
1.0s 18.75nm 5.0mb
CCH 33.37 64 eP 39 49.00 7.3X
SIV 37.98 67 P 40 19.60 -1.0
VAO 45.21 87 (P) 41 26.00 6.1X
PDCR 57.09 81 eP 42 38.50 -11.2X
NVL 61.99 159 P 43 22.00 -0.8
ALO 71.47 352 eP 44 22.00 -1.4
0.9s 3.36nm 4.5mb
ANMO 71.47 352 P 44 21.00 -2.4
0.8s 10.26nm 5.0mb
JSC 71.86 14 P 44 24.00 -1.5
RSCP 72.43 10 P 44 27.00 -1.9
MSU 75.78 348 P 44 49.00 0.5
TNP 76.35 344 P 44 52.80 1.0
0.7s 3.70nm 4.6mb

BONR 76.48 343 P 44 53.80 1.2
DAU 77.49 349 P 44 59.00 0.9
BW06 79.57 351 P 45 09.00 -0.4
0.7s 6.34nm 4.7mb
RSSD 80.35 355 P 45 13.80 0.3
0.8s 7.01nm 4.7mb
LBFM 80.57 341 P 45 16.00 1.2
LRM 82.96 349 eP 45 29.00 1.9
NEW 86.11 347 P 45 43.50 0.9
FFC 90.82 357 eP 46 05.00 0.2
1.0s 10.00nm 5.1mb
YKA 99.51 352 eP 46 43.90 -0.4
0.8s 0.50nm 4.2mb
YAK 141.30 327 iPKP 52 32.30 -0.2
S.D. = 1.2 on 21 of 25 obs.

& APR 15, 1991 15h 17m 44.30s
37.048 N 121.480 W
DEPTH = 6.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.6 (BRK).

SAO 0.28 174 iPd 17 50.30 0.2
ARN 0.30 352 iPc 17 50.20 -0.3
MHC 0.32 336 iPd 17 50.50 -0.3
iS 17 56.50
GCC 0.41 268 ePc 17 52.30 -0.3
iS 17 58.40
LLA 0.61 135 iPc 17 55.70 -0.8
iS 18 05.50
PRS 0.72 173 eP 17 58.10 -0.6
PCC 0.85 302 ePc 17 59.50 -1.5

eS 18 13.90
BKS 1.02 324 eP 18 03.20 -0.8
eS 18 18.30
BRK 1.03 323 ePd 18 03.50 -0.6
ZSP 1.09 326 eP 18 04.20 -0.9
eS 18 21.20
PRI 1.12 144 e(P) 18 05.40 -0.3
CMB 1.31 41 ePc 18 07.80 -1.2
eS 18 24.90
12 obs. associated

APR 15, 1991 15h 50m 29.79 ± 0.46s
41.109 N ± 4.8km 22.475 E ± 3.7km
DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)
ML 2.0 (SKO).

GRG 0.16 200 iPc 50 33.64 0.1
eS 50 36.64
VAY 0.22 19 iPg 50 34.50 -0.1
iSg 50 37.70
iSg 50 39.00
KNT 0.32 80 ePd 50 36.66 0.1
eS 50 41.48
THE 0.60 142 ePd 50 41.52 -0.4
eS 50 49.28
SOH 0.72 113 ePc 50 44.42 0.3
eS 50 53.68
SRS 0.84 89 iPc 50 46.01 -0.1
eS 50 57.76
FNA 0.89 249 iPd 50 47.04 0.1
eS 50 59.20
SKO 1.16 318 ePn 50 51.50 0.0
OHR 1.27 271 ePn 50 53.30 0.0
S.D. = 0.2 on 9 of 9 obs.

* APR 15, 1991 16h 03m 03.49 ± 1.29s
23.925 N ± 18.7km 93.807 E ± 17.7km
DEPTH = 33.0km (normal)
3.5mb (1 obs.)

BURMA-INDIA BORDER REGION (294)

SHL 2.39 313 iP 03 43.80 2.4
iS 04 09.40
CHG 6.98 136 eP 04 45.90 -0.3
GUN 8.17 301 P 05 02.12 -0.9
PKI 8.40 297 P 05 05.92 -0.3
KKN 8.59 298 P 05 07.92 -0.8
DMN 8.66 297 P 05 09.88 0.1
GKN 9.20 298 P 05 15.90 -1.2
HYB 15.67 248 eP 06 48.50 4.9X
GBA 18.57 239 Pc 07 20.80 0.9
0.7s 2.60nm 3.5mb
S.D. = 1.4 on 8 of 9 obs.

? APR 15, 1991 16h 07m 03.08 ± 0.86s
5.623 S ± 16.1km 154.139 E ± 11.2km
DEPTH = 33.0km (normal)
4.1mb (3 obs.)

SOLOMON ISLANDS (193)

RAB 2.42 306 e(P) 07 47.00 5.7X
iS 08 15.00
VSG 6.60 123 eP 08 38.00 -2.4
eS 10 13.00
HNR 6.89 124 P 08 38.00 -6.4X
S 10 21.00
LAT 7.17 261 iPd 08 47.40 -1.0
PMG 7.88 241 eP 08 57.50 -0.8
DZM 20.22 145 iPd 11 40.90 2.5
WB2 23.93 232 iPc 12 16.20 0.9
0.7s 1.80nm 3.7mb
ASPA 26.49 225 eP 12 45.60 6.2X
1.0s 4.10nm 4.0mb
LZH 62.75 315 eP 17 27.50 -0.2
1.0s 15.00nm 5.1mb
GUN 73.68 301 P 18 36.60 0.3
KKN 74.16 301 P 18 39.00 0.1
DMN 74.27 301 P 18 40.00 0.4
GKN 74.77 301 P 18 42.40 0.1
S.D. = 1.5 on 10 of 13 obs.

% APR 15, 1991 16h 55m 44.88 ± 1.03s
37.032 N ± 9.8km 29.412 E ± 8.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.7 (ISK).

ELL 0.49 125 iPg 55 54.50 -0.3
YER 0.91 277 iPn 56 02.80 0.5
BCK 1.03 65 iPn 56 05.00 0.6
KHL 1.29 4 iPn 56 09.40 0.5
DST 2.64 347 ePn 56 27.00 -1.3
YLV 3.53 360 ePn 56 51.00 10.1X
S.D. = 1.2 on 5 of 6 obs.

APR 15, 1991 17h 43m 31.12 ± 0.47s
41.090 N ± 4.6km 22.369 E ± 3.8km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.5 (SKO). MD 2.4 (THE).

GRG 0.14 169 iPc 43 34.24 -0.1
eS 43 37.00
VAY 0.28 33 iPg 43 37.00 0.1
iSg 43 41.00
KNT 0.41 80 iPc 43 39.76 0.3
eS 43 46.08
THE 0.64 135 ePd 43 43.20 -0.8
eS 43 52.12
SOH 0.79 109 ePd 43 46.28 -0.3
eS 43 57.76
FNA 0.81 248 ePd 43 46.88 0.0
iS 43 58.24
SRS 0.93 88 ePd 43 49.04 0.2
eS 44 01.80
LIT 0.99 175 ePc 43 50.72 0.8
eS 44 05.60
SKO 1.12 322 ePg 43 52.00 -0.2
iSg 44 07.00
Lg 44 09.70
OHR 1.19 272 ePg 43 53.30 0.0
iSg 44 09.50
Lg 44 16.00
S.D. = 0.5 on 10 of 10 obs.

APR 15, 1991 18h 10m 06.20 ± 1.07s
27.766 N ± 12.1km 55.052 E ± 5.6km
DEPTH = 46.7 ± 12.9 km
4.2mb (8 obs.)

SOUTHERN IRAN (353)

BBU 4.38 250 iPn 11 11.60 -0.3
(Sn) 12 02.10
BEE 4.40 248 ePn 11 12.60 0.4
(Sn) 12 03.40
QUE 10.69 74 eP 12 40.00 0.1
GBA 25.18 120 Pc 15 36.20 7.3X
0.4s 0.70nm 3.6mb
GKN 26.12 82 P 15 38.20 0.3
0.9s 15.00nm 4.5mb
DMN 26.58 83 P 15 42.72 0.5
KKN 26.72 83 P 15 43.48 0.1
0.7s 10.00nm 4.5mb
PKI 26.86 83 P 15 44.90 0.1
0.8s 12.00nm 4.6mb
GUN 27.23 82 P 15 46.88 -1.3
HFS 42.77 331 eP 18 00.20 -0.3
0.3s 1.40nm 4.2mb
SOD 43.21 344 eP 18 04.00 0.0
NB2 44.28 331 P 18 12.40 -0.4
0.7s 1.50nm 3.9mb
YKA 89.68 355 eP 23 01.20 1.0
0.9s 0.70nm 4.0mb
WRA 90.13 112 P 23 03.00 0.1
0.7s 1.10nm 4.3mb
WB2 90.13 112 iPc 23 02.70 -0.3
S.D. = 0.6 on 14 of 15 obs.

APR 15, 1991 18h 10m 07.66 ± 0.49s
41.077 N ± 4.1km 22.337 E ± 3.9km
DEPTH = 5.0km (geophysicist)
YUGOSLAVIA (383)
MD 3.2 (ATH). 2.7 (THE). ML 2.7 (SKO).

GRG 0.13 158 iPc 10 11.02 0.6
VAY 0.30 36 iPg 10 14.00 0.3
iSg 10 18.00
KNT 0.43 79 ePc 10 16.50 0.2
eS 10 22.50
THE 0.65 133 ePd 10 20.14 -0.6
eS 10 28.94
FNA 0.79 248 iPd 10 23.58 0.2
eS 10 34.38

SOH 0.81 108 ePd 10 23.74 -0.2
 eS 10 34.53
 KZN 0.88 209 ePb 10 24.50 -0.6
 SRS 0.95 87 iPd 10 25.78 -0.4
 eS 10 38.98
 LIT 0.98 173 iPd 10 27.14 0.4
 eS 10 41.94
 SKO 1.12 323 iPg 10 29.00 -0.1
 iSg 10 42.70
 Lg 10 46.30
 PAIG 1.54 138 ePc 10 36.06 0.3
 eS 10 57.94
 RDO 2.42 87 ePn 10 51.50 3.0X
 eSn 11 21.50
 S.D. = 0.5 on 11 of 12 obs.

& APR 15, 1991 18h 32m 41.39s
 61.184 N 152.021 W
 DEPTH = 106.0km
 3.4mb (1 obs.)
 SOUTHERN ALASKA (2)
 <AEIC>. Felt (III) at Skwentna.

SPU 0.02 262 iPc 32 55.62 1.0
 eS 33 07.72
 CRP 0.11 322 iPc 32 55.84 1.0
 CGLM 0.12 3 eP 32 55.96 1.2
 CKL 0.15 275 iPc 32 56.00 1.1
 BGL 0.20 294 iPc 32 55.90 0.9
 NCG 0.23 344 iPc 32 56.07 1.0
 eS 33 08.24
 NKA 0.58 139 iPc 33 00.00 1.4
 RDT 0.64 197 iPc 32 58.28 -0.9
 eS 33 12.36
 DFR 0.68 209 iPc 32 58.69 -0.8
 SUA 0.68 65 iPc 32 59.35 -0.2
 iS 33 13.41
 RDN 0.76 209 iPc 32 59.40 -1.0
 NCT 0.77 216 iPc 32 59.68 -0.7
 S 33 14.17
 REF 0.77 206 iPc 32 59.56 -0.9
 RDW 0.80 209 ePc 32 59.94 -0.8
 RS2 0.81 207 iPc 33 00.06 -0.8
 RSO 0.81 207 iPc 33 00.03 -0.8
 SKT 0.83 16 iPd 32 59.91 -1.0
 eS 33 14.66
 RED 0.85 206 iPc 33 00.32 -0.8
 eS 33 15.26
 SLKM 1.11 127 iPc 33 03.19 -0.6
 PWA 1.13 65 ePd 33 03.14 -0.8
 PMS 1.19 86 iPc 33 04.03 -0.7
 NNL 1.20 162 iPc 33 04.96 0.2
 PLRM 1.45 72 iPd 33 05.97 -1.7
 PMR 1.45 72 iPd 33 06.50 -1.2
 CUT 1.48 33 iPd 33 07.04 -1.0
 BRK 1.53 158 ePc 33 07.49 -1.3
 eS 33 28.08
 HOM 1.54 173 eP 33 07.93 -0.9
 GHO 1.60 67 iPd 33 07.99 -1.7
 S 33 29.89
 SEW 1.67 129 iPc 33 09.03 -1.4
 CNPM 1.71 166 ePc 33 09.91 -1.1
 eS 33 32.34
 KNK 1.74 81 iPc 33 09.66 -1.7
 S 33 33.01
 XLV 1.74 175 ePc 33 10.58 -0.8
 SVW 1.75 269 iPd 33 09.90 -1.6
 PDB 1.77 218 iPd 33 10.50 -1.2
 AUE 1.95 201 ePd 33 12.83 -1.2
 AUI 1.98 201 ePd 33 13.25 -1.2
 eS 33 38.31
 HUR 2.12 31 ePd 33 14.27 -2.0
 KNIM 2.26 110 iPc 33 15.05 -3.1
 MCNL 2.32 211 iPd 33 17.41 -1.4
 eS 33 47.11
 SCM 2.34 72 ePd 33 17.14 -2.1
 LTI 2.35 117 eP 33 16.65 -2.7
 CDD 2.40 200 ePd 33 18.23 -1.8
 TRF 2.42 19 ePd 33 18.16 -2.2
 GLI 2.42 95 iPc 33 17.16 -3.0
 TTA 2.57 315 iPc 33 20.30 -2.0
 SYI 2.59 184 ePc 33 20.81 -1.6
 RND 2.68 32 ePd 33 21.59 -2.1
 VLZ 2.76 89 iPc 33 22.24 -2.5
 MCK 2.93 28 ePd 33 24.79 -2.3
 TOA 2.94 69 iPd 33 26.40 -0.9
 KLU 2.96 81 iPc 33 25.04 -2.5

BWN 3.22 20 eP 33 28.66 -2.4
 TZL 3.27 72 ePd 33 30.10 -1.5
 MID 3.33 119 eP 33 28.42 -4.0
 SDG 3.35 63 ePd 33 31.06 -1.8
 PAX 3.57 57 ePd 33 33.88 -1.9
 NEA 3.66 20 eP 33 33.61 -3.4
 THY 3.69 50 eP 33 35.70 -1.7
 WRH 3.76 27 iPc 33 35.58 -2.8
 DRH 3.87 45 iPd 33 39.38 -0.6
 GLB 3.97 83 eP 33 38.51 -2.7
 CCB 3.97 27 ePd 33 38.11 -3.1
 HDA 3.98 34 ePd 33 38.53 -2.9
 RDS 4.06 24 ePd 33 39.21 -3.3
 MDM 4.16 23 ePd 33 40.50 -3.4
 FBA 4.20 25 ePc 33 42.20 -2.1
 CROM 4.35 92 eP 33 43.53 -3.1
 GLM 4.36 27 ePc 33 43.76 -2.8
 DOT 4.45 53 ePd 33 45.36 -2.5
 TGL 4.50 91 eP 33 45.29 -3.3
 BALM 4.70 88 eP 33 48.37 -2.9
 IMA 4.96 352 iPc 33 52.10 -2.8
 CTGM 5.19 88 eP 33 56.09 -2.1
 FYU 6.18 26 eP 34 08.15 -3.4
 INK 10.61 40 eP 35 08.00 -3.5
 YKA 17.55 69 eP 36 36.80 -3.5
 0.9s 2.30nm 3.4mb
 76 obs. associated

* APR 15, 1991 20h 39m 47.81 ± 0.33s
 56.192 S ± 7.6km 26.540 W ± 12.4km
 DEPTH = 33.0km (normal)
 5.2mb (6 obs.)

SOUTH SANDWICH ISLANDS REGION (153)

SNA 17.66 153 iPc 43 54.30 1.9
 0.9s 75.63nm 4.8mb
 AIA 20.24 228 eP 44 23.20 0.7
 NVL 21.94 147 (P) 44 40.00 0.3
 SPA 33.99 180 iPc 46 29.10 -1.1
 1.0s 41.00nm 5.3mb
 VAO 36.40 327 eP 46 52.70 1.7
 PPD 38.72 322 (P) 47 12.00 1.6
 PDCR 44.64 342 eP 47 59.70 0.9
 e 49 41.60
 SIV 47.94 313 iPc 48 24.20 -0.8
 SOB1 48.20 341 eP 48 26.70 -0.3
 CAI 50.24 346 iPc 48 42.40 -0.2
 LPB 50.53 304 P 48 46.00 0.7
 ZOBO 50.77 305 iPc 48 47.00 -0.3
 1.0s 87.50nm 5.7mb
 S 56 28.00
 LR 04 16.00
 LIC 64.68 24 Pc 50 25.00 0.5
 0.4s 6.00nm 5.0mb
 Z 20s 0.15um 4.2msz
 KIC 64.87 24 P 50 26.04 0.3
 TIC 65.08 24 Pc 50 27.48 0.4
 0.4s 4.50nm 4.9mb
 THZ 81.03 195 eP 51 59.90 -0.5
 NGZ 83.15 197 eP 52 11.10 -0.5
 TOD 86.36 174 iPd 52 27.70 0.1
 BFD 86.53 171 eP 52 28.70 0.3
 STK 91.70 170 eP 53 12.50 19.7X
 0.5s 3.90nm
 ASPA 98.74 162 iPd 53 24.60 -0.6
 0.6s 6.60nm 5.3mb
 WRA 102.46 162 Pd diff 53 59.00 17.3X
 1.8s 1.30nm
 MSU 118.74 297 PKP 58 34.00 0.3
 HFS 120.28 22 ePKP 58 33.70 -1.9
 0.5s 1.40nm
 NB2 120.61 20 PKP 58 35.80 -0.5
 0.7s 2.50nm
 NUR 123.18 27 ePKP 58 40.50 -0.5
 FRB 123.91 339 ePKP 58 42.00 -0.4
 KAF 124.96 27 iPKP 58 44.10 -0.4
 0.5s 10.30nm
 SOD 129.41 24 iPKP 58 52.30 -0.6
 KEV 131.43 22 ePKP 58 55.00 -1.7
 YKA 136.52 318 ePKP 58 52.00 -14.6X
 0.6s 0.50nm
 NJ2 145.96 121 PKPc 59 25.00 0.8
 INK 146.14 320 ePKP 59 21.00 -2.4
 0.7s 43.00nm
 SSE 146.26 124 PKPc 59 26.00 1.2
 TIY 147.09 107 PKPc 59 27.90 1.9
 HMC 148.86 102 ePKP 59 32.80 4.0X

KLU 149.21 305 PKP 59 33.00 4.3X
 TOA 149.51 306 ePKPc 59 35.10 6.0X
 PMR 150.72 305 ePKPd 59 36.60 5.9X
 0.6s 14.80nm
 BJI 150.78 108 ePKP 59 37.00 5.5X
 FBA 150.89 311 iPKPc 59 36.80 5.9X
 0.6s 17.20nm
 PDB 152.62 299 PKP 59 39.80 6.2X
 IMA 153.47 313 PKP 59 32.50 -2.3
 SVW 153.63 302 ePKP 59 44.10 9.0X
 TTA 154.14 306 PKP 59 37.00 1.2
 SDN 154.45 288 PKP 59 44.00 7.8X
 S.D. = 1.1 on 34 of 46 obs.

? APR 15, 1991 21h 11m 28.31 ± 1.10s
 37.638 N ± 9.9km 32.086 E ± 10.3km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.6 (ISK).

BCK 1.20 262 iPn 11 49.50 -1.3
 ELL 1.95 244 iPn 12 04.00 2.1
 KHL 2.14 289 ePn 12 04.50 -0.1
 BBTk 2.26 13 eP 12 07.00 0.6
 eS 12 43.00
 CSS 2.85 159 eP 12 14.00 -0.7
 YER 3.07 262 ePn 12 18.00 0.2
 DST 3.35 307 ePn 12 21.00 -0.8
 YLV 3.61 325 ePn 12 34.00 8.5X
 S.D. = 1.4 on 7 of 8 obs.

APR 15, 1991 21h 55m 56.27 ± 0.95s
 38.578 N ± 7.5km 22.051 E ± 8.7km
 DEPTH = 14.6 ± 6.7 km
 GREECE (364)
 ML 3.5 (ATH). MD 3.0 (THE).

AGG 0.49 26 iP 56 06.80 0.6
 iS 56 13.50
 VLS 1.22 251 eP 56 16.10 -2.4
 ATH 1.44 114 eP 56 27.00 5.2X
 LIT 1.56 12 ePd 56 23.60 0.1
 IGT 1.64 306 ePc 56 27.12 2.4
 eS 56 49.12
 KZN 1.74 353 eP 56 25.70 -0.5
 PAIG 1.85 43 ePd 56 27.20 -0.5
 eS 56 49.64
 VLI 1.99 159 eP 56 30.50 0.8
 FNA 2.26 347 ePd 56 33.52 -0.2
 eS 57 01.48
 GRG 2.39 6 ePc 56 35.20 -0.3
 SOH 2.46 24 iPd 56 36.02 -0.4
 KNT 2.66 14 ePd 56 38.92 -0.5
 OHR 2.71 340 ePn 56 40.50 0.4
 VAY 2.77 8 ePn 56 40.00 -0.9
 SRS 2.80 25 iPc 56 40.65 -0.7
 SKO 3.42 352 ePn 56 46.00 -4.1X
 S.D. = 1.2 on 14 of 16 obs.

APR 15, 1991 22h 19m 16.12 ± 0.98s
 43.779 N ± 9.3km 18.750 E ± 12.3km
 DEPTH = 19.1 ± 10.6 km
 YUGOSLAVIA (383)
 MD 3.1 (TRI).

PLE 0.65 134 iPg 19 30.26 1.5
 iSg 19 34.81
 BRY 0.89 190 iPg 19 33.30 0.5
 iSg 19 40.56
 IVA 1.23 137 iPg 19 38.13 -0.3
 iSg 19 49.98
 HCY 1.34 188 iPg 19 40.01 0.1
 iSg 19 53.76
 TTG 1.40 164 iPg 19 39.63 -1.0
 iSg 19 51.73
 HVAR 1.78 251 e(Pn) 19 53.30 7.1X
 iSn 20 13.80
 ZAG 2.83 317 ePn 20 02.20 1.0
 iSn 20 24.70
 PTJ 2.91 318 iPnc 20 01.50 -0.8
 eSn 20 23.70
 VBY 3.03 306 ePn 20 03.00 -1.0
 iSn 20 26.10
 OHR 3.07 150 e(Pn) 20 12.00 7.4X
 RIY 3.49 298 ePn 20 09.20 -1.3
 iSn 20 38.10
 CEY 3.65 304 ePn 20 14.50 1.6

15d 22h

LJU	3.75	309	eSn	20 45.00		
			ePn	20 17.50	3.2X	
			eSn	20 48.50		
TRI	4.04	300	e(Pn)	20 20.00	1.7	
			i(Sn)	20 54.30		
			i(Sg)	21 04.90		
VOY	4.12	305	ePn	20 20.40	0.8	
			e(Sn)	20 53.60		
KBA	5.04	313	iPnc	20 31.20	-1.4	
	0.3s		3.90nm			4.4mb X
			i	20 42.30		
			i	21 08.40		
			i	21 11.60		
			i	21 15.10		
KHC	6.43	328	ePn	20 52.00	-0.2	
			ePg	21 01.00		
			eSg	21 48.80		

S.D. = 1.3 on 14 of 17 obs.

? APR 15, 1991 22h 30m 47.04±6.47s
 60.677 N ±19.3km 2.848 E ±49.2km
 DEPTH = 10.0km (geophysicist)
 NORTH SEA (534)
 MD 2.2 (BER).

SUE	1.01	67	iPc	31 06.47	0.3	
			eS	31 17.32		
ASK	1.18	98	eP	31 09.55	0.6	
			eS	31 22.99		
HYA	1.70	72	eP	31 16.72	-0.2	
			eS	31 34.63		
ODD1	2.03	111	eP	31 22.23	0.5	
MOL	2.94	48	eP	31 35.15	0.5	
			eS	32 05.49		
NRA0	4.27	85	Pn	31 51.70	-1.9	

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

? APR 15, 1991 22h 41m 41.89±3.63s
 17.485 N ±37.3km 100.216 W ±12.4km
 DEPTH = 33.0km (normol)
 3.0mb (1 obs.)
 GUERRERO, MEXICO (59)

III	1.14	39	iP	42 02.82	1.1	
			iS	42 09.98		
UNM	2.08	28	iP	42 15.50	0.1	
			iS	42 28.00		
PPM	2.18	44	iP	42 16.27	-0.8	
			iS	42 27.45		
IIT	2.37	50	iP	42 18.94	-0.6	
			iS	42 34.48		
IISM	3.08	61	iP	42 29.69	0.3	
			(S)	42 58.81		
OXX	3.36	96	(P)	42 47.51	13.9X	
			iS	43 15.32		
ANMO	18.26	343	(P)	45 54.40	-0.2	
YKA	46.08	351	eP	50 04.40	0.2	
	0.5s		0.10nm			3.0mb

S.D. = 0.8 on 7 of 8 obs.

APR 15, 1991 22h 54m 47.98±1.68s
 5.784 S ±5.7km 76.900 W ±9.2km
 DEPTH = 27.0 ±12.8 km
 4.8mb (8 obs.)
 NORTHERN PERU (111)

VC1	5.33	344	P	56 08.40	0.1	
OUR	5.81	344	eP	56 16.40	1.4	
YANA	5.87	343	eP	56 16.40	0.4	
CAYA	5.92	349	eP	56 16.50	-0.3	
NNA	6.16	179	iPc	56 20.70	1.0	
	0.8s		2238.81nm			7.0mb X
			iS	57 29.00		
COTA	6.25	347	eP	56 22.00	0.7	
PT10	6.25	181	iPc	56 20.50	-0.4	
			iS	57 31.00		
ARE	11.86	154	eP	57 49.00	10.2X	
ZOBO	13.51	141	P	58 00.00	-1.0	
	20s		0.29um			
			LR	03 28.00		
LPB	13.73	142	P	58 04.00	0.3	
			eLR	03 44.00		
CCH	15.61	139	(P)	58 36.00	7.8X	
SDV	15.86	23	eP	58 37.00	5.7X	
TOV	17.01	25	eP	58 46.60	0.8	
CEOS	17.01	30	iP	58 44.80	-1.1	
SIV	18.54	124	P	59 03.60	-1.2	

PDCR	37.86	103	eP	02 04.80	0.2	
CAI	39.53	93	eP	02 19.30	0.6	
ALO	49.16	328	eP	03 35.00	-0.9	
	1.0s		10.00nm			4.8mb
ANMO	49.16	328	P	03 35.70	-0.2	
	0.8s		8.40nm			4.8mb
GOL	52.33	332	P	03 59.00	-1.1	
RSSD	55.37	336	P	04 22.20	-0.1	
	1.0s		7.32nm			4.7mb
BW06	56.70	332	P	04 29.80	-2.1	
TNP	57.51	323	P	04 36.90	-0.8	
	0.6s		2.04nm			4.3mb
ORV	61.04	322	P	05 01.70	-0.1	
SES	63.25	336	eP	05 16.00	-0.4	
NEW	64.33	331	P	05 22.60	-0.9	
	0.8s		8.33nm			4.9mb
PNT	66.25	331	eP	05 36.00	0.1	
	0.6s		5.00nm			4.8mb
LIC	72.72	82	P	06 13.70	-2.5	
TIC	72.79	81	P	06 17.74	1.1	
KIC	73.02	82	P	06 19.00	1.0	
	1.0s		15.00nm			5.0mb
YKA	73.93	343	eP	06 20.70	-1.6	
	0.8s		2.10nm			4.2mb
INK	83.65	342	eP	07 16.00	0.9	
WB2	140.02	229	ePKP	14 15.50	-1.2	
	0.5s		1.20nm			
WRA	140.03	229	PKP	14 18.00	1.3	
	1.0s		1.60nm			
GTA	146.39	5	PKP	14 28.90	1.6	
NDI	146.55	44	ePKP	14 30.00	2.3	
TIY	147.10	346	ePKP	14 29.00	0.6	
XAN	151.37	350	ePKP	14 36.50	1.4	
GBA	153.56	71	PKPd	14 47.50	8.9X	
	1.0s		3.20nm			

S.D. = 1.2 on 35 of 39 obs.

& APR 15, 1991 23h 07m 03.22s
 60.410 N 141.240 W
 DEPTH = 7.3km
 SOUTHEASTERN ALASKA (19)
 <AEIC>. ML 2.5 (AEIC).

CTGM	0.56	355	iP	07 14.67	0.2	
			eS	07 23.23		
BALM	0.83	320	eP	07 18.21	-1.4	
			iS	07 30.83		
TGL	0.86	295	iP	07 18.73	-1.3	
			S	07 30.22		
CROM	1.00	291	eP	07 20.69	-1.9	
			S	07 35.85		
PNL	1.19	128	eP	07 23.12	-2.5	
			S	07 40.01		
HMT	1.50	268	eP	07 29.77	-0.8	
			eS	07 50.62		
GLB	1.63	311	eP	07 30.95	-1.4	
			eS	07 51.86		
RAGM	1.71	271	eP	07 32.49	-1.0	
			eS	07 53.76		
SGAM	1.97	274	eP	07 36.03	-1.3	
CVA	2.24	275	eP	07 41.21	0.1	
KLU	2.53	297	eP	07 44.22	-1.2	
VLZ	2.60	288	eP	07 45.99	-0.3	
HIN	2.61	272	eP	07 46.99	0.5	
TOA	2.93	308	eP	07 51.30	0.2	

14 obs. associated

& APR 15, 1991 23h 56m 26.75s
 61.035 N 151.277 W
 DEPTH = 68.4km
 SOUTHERN ALASKA (2)
 <AEIC>.

NKA	0.29	176	ePc	56 39.00	1.2	
SPU	0.41	292	iPd	56 38.19	-0.6	
			eS	56 47.37		
CGLM	0.45	308	eP	56 38.74	-0.5	
CRP	0.49	299	iPd	56 39.05	-0.6	
			eS	56 48.65		
SUA	0.50	31	iPd	56 39.40	-0.4	
			eS	56 49.19		
CKL	0.54	288	iPd	56 39.37	-0.8	
NCG	0.56	311	iPd	56 39.77	-0.6	
			eS	56 50.18		
BGL	0.59	293	iPd	56 39.87	-0.7	
			eS	56 50.47		
RDT	0.72	231	iPd	56 41.03	-1.1	

SLKM	0.74	135	iPc	56 52.68		
			eS	56 41.43	-0.8	
DFR	0.82	238	iPd	56 53.67		
			eS	56 42.32	-1.0	
PMS	0.86	75	iPc	56 54.67		
			eS	56 43.42	-0.3	
REF	0.89	233	eP	56 55.87		
			eS	56 43.63	-0.6	
RDN	0.90	235	ePd	56 57.77		
			eS	56 43.26	-1.0	
PWA	0.91	47	ePc	56 56.06		
			eS	56 44.22	-0.1	
RSO	0.93	232	eP	56 58.14		
			eS	56 43.72	-1.0	
RS2	0.93	232	eP	56 57.92		
			eS	56 44.02	-0.7	
RDW	0.93	234	iPd	56 57.44		
			eS	56 44.04	-0.8	
NCT	0.94	240	iPc	56 57.98		
			S	56 43.88	-0.9	
SKT	0.96	353	iPd	56 57.41		
			eS	56 44.25	-0.6	
RED	0.96	231	ePd	56 57.98		
			eS	56 44.07	-0.9	
NNL	1.00	181	ePd	56 58.42		
PLRM	1.18	61	ePc	56 45.45	0.1	
			eS	56 46.66	-1.0	
BRLK	1.29	171	eP	57 03.38		
			eS	56 48.21	-1.1	
SEW	1.30	135	ePc	57 04.98		
			eS	56 47.86	-1.5	
GHO	1.35	56	iPc	57 03.92		
			eS	56 49.33	-0.8	
HOM	1.39	188	eP	57 06.91		
			eS	56 50.34	-0.3	
KNK	1.42	73	ePc	57 08.05		
			eS	56 49.92	-1.0	
CUT	1.46	19	iPd	57 07.94		
CNPM	1.51	179	iPd	56 50.92	-0.5	
			eS	56 51.10	-1.2	
KNIM	1.87	110	ePc	57 09.87		
			eS	56 54.16	-3.0	
PDB	1.91	230	eP	57 16.76		
			eS	56 56.00	-1.7	
LTJ	1.96	119	eP	57 18.41		
GLI	2.05	93	iPc	56 56.08	-2.4	
			eS	56 56.69	-2.9	
SCM	2.06	65	ePd	57 21.76		
HUR	2.10	21	eP	56 58.54	-1.3	
SVW	2.11	274	iPc	57 00.19	-0.1	
VZW	2.30	87	ePc	56 58.45	-2.1	
VLZ	2.40	86	ePc	57 00.60	-2.5	
			eS	57 02.18	-2.3	
CDD	2.42	210	iPd	57 30.21		
TRF	2.47	10	eP	57 03.91	-1.0	
SYI	2.50	194	ePd	57 05.02	-0.6	
KLU	2.63	78	iPc	57 04.41	-1.4	
RND	2.64	24	eP	57 05.45	-2.3	
TOA	2.67	64	ePc	57 06.90	-1.0	
TTA	2.93	312	eP	57 07.66	-0.6	
GLB	3.63	80	eP	57 10.17	-1.9	
			eS	57 18.83	-3.0	

47 obs. associated

? APR 16, 1991 00h 05m 47.59±1.09s
 36.976 N ±11.1km 29.385 E ±7.7km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.1 (ISK).

ELL	0.48	118	iPg	05 57.00	-0.3
			iSg	06 05.50	
YER	0.90	281	ePn	06 05.00	0.2
BCK	1.08	63	ePn	06 08.50	0.6
KHL	1.35	5	ePn	06 12.00	-0.5
S.D. = 0.9			an	4 of	4 obs.

San Jose.

GCC	0.29	163	ePd	57	05.50	0.0
			i	57	08.00	
			iS	57	10.10	
PCC	0.29	311	iPd	57	05.30	-0.2
			iS	57	09.70	
MHC	0.37	85	iPc	57	07.60	0.5
			iS	57	11.10	
ARN	0.46	85	iPd	57	09.00	0.2
BKS	0.58	350	iPd	57	10.90	-0.2
			iS	57	19.00	
BRK	0.58	348	iPd	57	10.70	-0.4
			iS	57	18.90	
ZSP	0.65	349	iPd	57	12.40	-0.1
			iS	57	22.20	
SAO	0.76	136	iPd	57	13.70	-1.0
PRS	1.14	149	ePc	57	20.50	-0.8
LLA	1.16	126	ePc	57	20.70	-0.9
NWRM	1.30	332	eP	57	23.80	-0.3
CMB	1.54	62	iPc	57	26.50	-1.2
			iS	57	47.30	
PR1	1.64	135	ePc	57	29.00	-0.2
FRI	1.94	99	eP	57	30.40	-3.0
			eS	57	58.80	
ORV	2.29	12	eP	57	36.60	-1.9
BCH	2.68	142	eP	57	41.50	-2.6
BONR	3.09	77	eP	57	49.50	-0.5
ABL	3.39	136	eP	57	51.00	-3.3

18 obs. associated

? APR 16, 1991 01h 28m 42.19± 1.90s
 14.288 S ± 16.2km 26.153 E ± 21.1km
 DEPTH = 10.0km (geophysicist)

ZAMBIA (576)

KMZ	0.88	339	iPg	28	59.30	0.0
			iSg	29	08.00	
LSZ	2.20	117	iPn	29	20.10	0.7
			iPg	29	25.20	
			iSn	29	28.00	
			iSg	29	57.80	
KRI	4.18	128	iPn	29	47.10	-0.5
			iPg	30	03.00	
			iSn	30	35.50	
			iSg	30	55.50	
IKZ	7.55	58	eP	30	35.00	-0.2
			iSg	31	11.20	

S.D. = 0.9 on 4 of 4 obs.

APR 16, 1991 01h 32m 03.01± 0.97s
 19.263 S ± 5.7km 168.425 E ± 7.5km
 DEPTH = 42.9 ± 8.6 km
 4.9mb (13 obs.) 4.9Msz (2 obs.)

VANUATU ISLANDS (186)

PVC	1.52	356	iPd	32	27.20	-0.9
			iS	32	48.00	
BKM	1.60	354	iPc	32	29.00	-0.2
			iS	32	50.20	
DZM	3.35	213	iPd	32	53.00	-1.4
			iS	33	32.00	
SGE	9.17	81	eP	34	18.20	2.3
HNR	12.76	319	eP	35	04.00	-0.5
SVO	13.06	319	eP	35	09.00	0.6
COO	18.73	230	e(P)	36	24.00	3.3X
RMQ	19.49	245	iPd	36	30.00	0.5
			0.4s	30.00nm	4.9mb	
PUZ	20.61	157	P	36	40.20	-0.9
CTA	20.89	264	iPd	36	45.20	1.0
			1.2s	126.56nm	5.1mb	
			iS	40	41.00	
MNG	22.13	166	P	36	55.50	-1.0
			0.4s	18.00nm	4.9mb	
THZ	22.75	171	eP	37	03.00	0.4
PMG	22.79	292	eP	37	03.00	-0.1
CNB	23.23	223	ePc	37	09.70	2.3
OLP	23.42	247	iPc	37	11.60	2.4
KHZ	23.49	170	P	37	09.30	-0.4
			0.4s	15.00nm	4.8mb	
LIZ	23.67	173	eP	37	11.80	0.3
CMS	23.71	235	eP	37	13.00	1.0
STK	27.19	237	eP	38	05.50	20.8X
			1.8s	11.70nm		
WB2	32.07	263	eP	38	27.00	-1.3
			0.6s	3.70nm	4.4mb	
WRA	32.09	263	P	38	27.00	-1.4

ASPA	0.6s	3.70nm	4.4mb			
	32.38	256 iPd	38	29.90	-1.1	
	0.7s	20.30nm			5.1mb	
MAT	62.42	333 (P)	42	24.00	0.0	
	1.1s	18.99nm			5.1mb	
		eS	51	06.00		
NJ2	69.69	316 Pd	43	10.50	0.0	
SPA	70.86	180 eP	43	16.00	-1.4	
	1.0s	8.50nm			4.7mb	
WHN	71.80	313 eP	43	22.50	-0.8	
		PP	43	34.50		
DL2	72.57	323 P	43	28.80	1.1	
MDJ	72.78	332 eP	43	27.50	-1.3	
TIA	73.45	319 eP	43	32.70	-0.2	
CN2	74.08	329 eP	43	35.80	-0.6	
	1.0s	10.00nm			4.7mb	
		ePP	43	48.00		
GYA	75.20	305 P	43	43.80	0.4	
BJI	76.47	321 eP	43	50.50	0.4	
Z	22s	0.49um			4.8Msz	
TIY	77.33	318 eP	43	55.40	0.3	
Z	15s	0.47um			4.9MszX	
E	11s	0.31um				
XAN	77.56	313 eP	43	56.10	-0.3	
CHG	77.96	295 eP	44	00.30	1.5	
CD2	79.64	308 eP	44	08.60	0.8	
HMC	79.74	320 eP	44	08.60	0.4	
LZH	82.17	312 eP	44	22.50	1.3	
	1.5s	37.00nm			5.2mb	
		PP	44	33.00		
		SP	44	41.00		
GTA	86.58	314 P	44	43.80	0.5	
	1.4s	10.00nm			4.9mb	
		PP	44	54.40		
YAK	86.64	343 eP	44	41.50	-1.4	
FBA	90.32	17 (P)	45	02.00	1.6	
WMO	96.67	314 eP	45	30.10	0.1	
INK	96.81	19 eP	45	21.00	-9.0X	
YKA	101.04	27 ePdiff	45	47.40	-1.9	
	0.6s	0.60nm			4.4mb	
SKO	144.02	316 iPKP	51	33.00	-2.7	
GRF	144.58	334 ePKP	51	35.60	-0.9	
Z	22s	0.30um			5.0Msz	
		e	51	45.00		
OHR	144.85	315 ePKP	51	35.10	-2.1	
	0.8s	39.00nm				
BHG	145.34	331 ePKP	51	37.10	-0.7	
KBA	145.58	329 iPKPc	51	40.40	1.9	
		i	51	47.70		
		i	52	03.70		
VBY	145.69	326 e(PKP)	51	42.00	3.6X	
LJU	145.71	327 e(PKP)	51	38.00	-0.5	
MEM	145.75	340 PKP	51	35.60	-2.7	
ABH	145.84	338 ePKP	51	39.02	0.4	
CEY	145.97	327 e(PKP)	51	39.00	0.0	
VOY	146.04	328 ePKP	51	38.70	-0.5	
DOU	146.64	341 PKPc	51	41.70	1.9	
	0.7s	14.40nm				
CDF	147.16	337 ePKP	51	41.70	0.8	
	0.8s	10.75nm				
BSF	147.82	337 ePKP	51	43.40	1.4	
HAU	147.84	337 ePKP	51	43.50	1.6	
ARV	148.26	325 PKP	51	46.90	4.2X	
SFI	148.55	327 PKP	51	46.30	3.2X	
VAI	148.60	332 PKP	51	45.90	2.8X	
LOR	149.35	339 ePKP	51	47.40	3.1X	
	0.7s	9.90nm				
LBF	149.56	339 ePKP	51	47.90	3.3X	
	0.8s	6.70nm				
SSF	149.65	339 ePKP	51	48.10	3.4X	
	0.9s	11.45nm				
LPL	149.74	334 ePKP	51	49.20	4.0X	
	0.9s	8.20nm				
LPG	149.75	334 ePKP	51	49.30	4.0X	
	0.7s	8.80nm				
LPF	150.05	346 ePKP	51	48.80	3.6X	
	0.8s	13.45nm				
BGF	150.31	340 ePKP	51	49.80	4.1X	
	1.1s	19.55nm				
MAF	150.70	340 ePKP	51	50.70	4.4X	
	1.0s	7.00nm				
TCF	150.75	340 ePKP	51	50.60	4.2X	
PGF	150.99	328 ePKP	51	51.70	4.7X	
	0.6s	16.25nm				
LSF	151.00	341 ePKP	51	50.90	4.1X	

S.D. = 1.3 on 55 of 73 obs.

% APR 16, 1991 02h 04m 38.92± 0.81s
 38.793 N ± 8.1km 15.204 E ± 13.5km
 DEPTH = 10.0km (geophysicist)

SICILY (398)

ATN	0.66	162 P	04	52.30	0.2
		eSg	05	03.70	
MNO	0.95	205 P	04	57.30	0.2
		eSn	05	12.10	
GIB	1.22	229 P	05	01.30	-0.5
TDS	1.23	45 P	05	00.50	-1.4
		eSg	05	20.60	
MGR	1.37	11 P	05	02.50	-1.5
		eSg	05	23.40	
ORI	1.59	37 P	05	08.90	1.7
SGO	1.77	3 P	05	11.00	1.3

S.D. = 1.5 on 7 of 7 obs.

APR 16, 1991 02h 11m 31.41± 0.36s
 0.369 N ± 9.3km 25.759 W ± 7.3km
 DEPTH = 10.0km (geophysicist)

4.8mb (8 obs.) 5.0Msz (2 obs.)

CENTRAL MID-ATLANTIC RIDGE (406)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 15S, 27C

Centroid Location:

Origin Time 02:11:39.8 0.6

Lot 0.86N 0.06 Lon 25.50W 0.05

Dep 15.0 Fix Half-duration 2.1

Moment Tensor: Scale 10¹⁷ Nm

Mrr=-0.11 0.08 Mtt=-0.05 0.10

Mff=0.16 0.13 Mrt=0.00 0.00

Mrf=0.00 0.00 Mtf=-1.53 0.07

Principal Axes:

T Val= 1.59 Plg= 0 Azm=227

N -0.11 90 180

P -1.48 0 137

Best Double Couple: Mo=1.5*10¹⁷

NP1: Strike=272 Dip=90 Slip=-180

NP2: 2 90 0

			iS	18	10.00	
PDCR	18.44	226	eP	15	49.30	0.3
LIC	21.49	74	P	16	22.68	0.1
	1.0s		93.50nm			5.1mb
TIC	21.61	73	P	16	24.02	0.2
KIC	21.80	74	P	16	26.10	0.4
			S	20	20.00	
			eTT	33	00.00	
IFR	38.25	28	iPc	18	55.00	1.3
SIV	38.46	243	P	18	55.40	-0.2
CCH	43.49	244	P	19	29.00	-8.4X
ZOBO	44.94	246	P	19	48.20	-1.2
Z	20s		1.17um			4.8Msz
			S	26	00.00	
			LR	33	00.00	
LPB	44.99	246	P	19	50.00	0.3
Z	18s		2.06um			5.1Msz
			eLR	32	20.00	
LSF	51.59	24	eP	20	39.80	-0.2
SSF	53.05	25	eP	20	50.90	-0.1
LBF	53.19	25	eP	20	52.20	0.2
	1.1s		14.65nm			4.8mb
LOR	53.36	25	eP	20	53.00	-0.2
	1.1s		9.75nm			4.7mb
HAU	55.00	26	eP	21	04.90	-0.4
	1.3s		21.65nm			5.0mb
BSF	55.06	26	eP	21	05.20	-0.7
KHC	59.15	29	P	21	34.50	-0.2
SKO	59.27	40	iP	21	35.50	-0.1
			e	24	55.00	
ZST	60.32	32	eP	21	42.00	-0.7
SRO	60.73	33	eP	21	44.30	-1.1
MLR	63.87	38	eP	22	07.00	0.3
			e	25	07.00	
			e	52	23.00	
NB2	66.77	19	P	22	25.00	0.0
	1.0s		7.50nm			4.8mb
AIA	71.12	196	eP	23	12.60	20.9X
GOL	81.77	310	P	23	53.00	0.6
ALO	82.16	305	eP	23	55.00	0.5
	1.0s		3.00nm			4.4mb
SES	86.70	320	eP	24	18.00	1.2
LRM	87.42	316	eP	24	24.40	3.7X
YKA	89.14	332	eP	24	27.70	-0.5

16d 02h

0.9s 0.60nm 3.9mb
 SPA 90.37 180 iPd 24 42.10 8.0X
 1.0s 9.50nm 5.0mb
 ASPA 149.57 141 ePKP 31 27.20 8.3X
 1.0s 5.20nm
 WB2 152.47 136 ePKP 31 41.80 18.6X
 0.9s 1.60nm
 S.D. = 0.6 on 25 of 31 obs.

APR 16, 1991 02h 40m 11.80±0.47s
 51.453 N ±11.7km 177.703 E ±6.1km
 DEPTH = 33.0km (normol)
 4.5mb (13 obs.)

RAT ISLANDS, ALEUTIAN ISLANDS (6)

ADK 3.52 81 ePc 41 06.70 1.2
 SDN 13.56 65 ePd 43 27.40 3.4X
 SVW 17.56 46 ePc 44 17.80 2.5
 1.2s 62.60nm 4.6mb
 PDB 17.81 51 eP 44 19.00 0.6
 TTA 18.14 41 ePd 44 26.00 3.5X
 1.2s 41.50nm 4.5mb
 RSO 18.69 50 eP 44 30.00 0.6
 SLKM 19.91 50 eP 44 40.00 -3.2X
 IMA 20.57 34 eP 44 50.40 0.4
 0.9s 12.00nm 4.3mb
 PMR 20.68 48 eP 44 51.90 0.8
 0.7s 11.63nm 4.4mb
 FBA 22.26 40 eP 45 07.00 0.0
 BALM 23.81 51 eP 45 21.00 -1.3
 INK 28.67 36 P 46 06.00 -1.1
 0.3s 1.50nm 4.2mb
 YKA 36.76 46 eP 47 17.10 -0.4
 0.5s 1.50nm 4.1mb
 LON 38.89 72 eP 47 35.50 -0.2
 NEW 40.90 68 eP 47 52.20 0.0
 0.8s 8.33nm 4.5mb
 LBFM 41.75 79 eP 47 59.00 -0.5
 TNP 46.59 80 eP 48 38.00 -0.5
 0.7s 3.67nm 4.5mb
 BW06 48.35 70 eP 48 52.00 -0.3
 RSSD 50.74 66 eP 49 09.70 -0.8
 GOL 52.74 71 eP 49 24.50 -1.2
 FRB 54.09 30 eP 49 31.00 -3.9X
 KAF 64.52 346 iP 50 45.30 -1.8
 0.3s 2.80nm 4.8mb
 NUR 66.31 346 eP 50 56.80 -1.7
 NB2 67.34 353 P 51 03.60 -1.5
 0.7s 2.80nm 4.5mb
 GUN 69.78 290 P 51 21.66 0.6
 KKN 70.23 290 P 51 24.44 0.8
 PKI 70.31 290 P 51 24.84 0.5
 GKN 70.44 290 P 51 25.32 0.4
 DMN 70.46 290 P 51 25.74 0.6
 QUE 78.56 304 eP 52 13.10 1.5
 WB2 80.59 221 iPc 52 22.40 0.1
 0.7s 3.70nm 4.5mb
 WRA 80.59 221 P 52 22.00 -0.3
 0.7s 3.50nm 4.5mb
 KBA 80.93 349 iPd 52 24.60 0.5
 i 52 31.80
 HYB 82.12 288 eP 52 30.50 0.0
 GBA 85.76 286 P 52 49.10 0.2
 0.8s 5.80nm 4.9mb
 S.D. = 1.0 on 31 of 35 obs.

& APR 16, 1991 02h 45m 15.30s
 62.535 N 148.647 W
 DEPTH = 48.7km
 CENTRAL ALASKA (1)
 <AEIC>. ML 3.0 (AEIC). Felt
 (III) at Contwell.

HUR 0.64 315 iPc 45 28.20 -0.1
 iS 45 38.20
 SML 0.74 168 eP 45 29.57 -0.2
 S 45 40.97
 CUT 0.77 261 iPc 45 29.84 -0.1
 GH0 0.78 190 iPc 45 29.98 -0.2
 eS 45 41.37
 RND 0.88 354 iPc 45 31.30 -0.3
 iS 45 42.89
 SCM 0.94 138 iPc 45 31.87 -0.5
 eS 45 45.73
 PLRM 0.97 194 iPc 45 32.51 -0.3
 PMR 0.97 194 iPc 45 33.10 0.3
 PWA 1.06 214 iPc 45 34.35 0.4

KNK 1.13 175 iPc 45 35.21 0.2
 eS 45 50.39
 TRF 1.19 322 iPc 45 35.61 -0.3
 MCK 1.21 354 iPc 45 36.18 0.0
 TOA 1.23 109 iPc 45 37.50 1.0
 PMS 1.37 199 ePc 45 38.68 0.3
 SDG 1.44 89 ePd 45 39.37 0.0
 SKT 1.46 249 iPc 45 39.89 0.2
 eS 45 59.25
 SUA 1.46 224 iPc 45 40.41 0.6
 eS 46 00.50
 PAX 1.53 72 ePd 45 40.51 -0.2
 eS 46 00.15
 TZL 1.58 107 ePd 45 42.11 0.7
 S 46 02.85
 THY 1.59 55 ePd 45 42.00 0.5
 KLU 1.66 128 ePc 45 42.44 -0.1
 eS 46 04.80
 BWN 1.68 348 ePc 45 42.24 -0.6
 DDM 1.78 44 ePc 45 45.40 1.2
 VZW 1.78 145 eP 45 44.08 -0.2
 VLZ 1.79 141 eP 45 43.36 -0.8
 eS 46 06.31
 GLI 1.82 155 iPc 45 44.49 -0.2
 WRH 1.96 7 iPc 45 45.71 -1.0
 NCG 2.01 237 eP 45 47.66 0.2
 HDA 2.03 21 iPc 45 46.96 -0.7
 NEA 2.06 355 ePc 45 46.88 -1.2
 CRP 2.09 234 eP 45 49.31 0.6
 SPU 2.11 231 eP 45 49.21 0.3
 CCB 2.15 10 ePc 45 48.20 -1.2
 SLKM 2.17 201 eP 45 49.99 0.3
 BGL 2.18 236 eP 45 50.67 0.7
 CKL 2.21 234 eP 45 50.15 -0.1
 KNIM 2.24 168 eP 45 50.22 -0.4
 RDS 2.31 5 iPc 45 50.62 -1.1
 HIN 2.38 153 iPc 45 52.20 -0.5
 FBA 2.40 9 iPc 45 52.40 -0.6
 CVA 2.43 144 ePc 45 53.15 -0.2
 MDM 2.44 4 iPc 45 52.47 -1.1
 SEW 2.47 189 eP 45 54.34 0.5
 GLM 2.52 12 ePc 45 53.43 -1.3
 GLB 2.53 114 eP 45 54.77 -0.1
 LTI 2.53 171 eP 45 54.44 -0.3
 MTU 2.60 169 eP 45 57.19 1.4
 SGAM 2.62 140 eP 45 55.27 -0.8
 RDT 2.67 224 iPc 45 56.60 -0.2
 TMW 2.70 70 eP 45 56.21 -1.0
 DFR 2.75 227 eP 45 57.66 -0.3
 REF 2.83 225 eP 45 58.94 -0.2
 RDN 2.83 226 eP 45 58.87 -0.3
 NCT 2.85 228 eP 45 59.19 -0.2
 RSO 2.86 225 eP 45 59.86 0.1
 RS2 2.86 225 eP 45 59.88 0.1
 RDW 2.87 226 eP 45 59.68 -0.1
 RAGM 2.88 137 eP 46 01.07 1.3
 RED 2.90 225 eP 45 59.96 -0.2
 HMT 3.05 134 eP 46 03.04 0.8
 CROM 3.18 122 eP 46 03.38 -0.8
 CNPM 3.27 204 ePc 46 05.42 0.1
 TGL 3.30 120 eP 46 05.65 -0.2
 BALM 3.35 114 eP 46 05.42 -1.2
 TTA 3.41 280 ePd 46 07.30 -0.1
 WAX 3.48 124 eP 46 07.87 -0.5
 SVW 3.60 250 eP 46 09.70 -0.4
 CTGM 3.82 111 eP 46 13.62 0.4
 PDB 3.85 227 eP 46 12.09 -1.4
 IMA 4.17 331 iPd 46 17.10 -1.0
 FYU 4.31 18 eP 46 18.74 -1.1

71 obs. associated

? APR 16, 1991 02h 46m 51.55±1.44s
 40.605 N ±13.4km 29.010 E ±10.5km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.6 (ISK).

YLV 0.28 98 iPg 46 56.90 -0.5
 eSg 47 00.90
 IZI 0.44 127 iPg 47 00.90 0.3
 HRT 0.55 66 iPg 47 02.90 0.3
 eSg 47 09.40
 CTT 0.70 321 iPg 47 05.30 0.0
 iSg 47 14.30
 S.D. = 0.7 on 4 of 4 obs.

? APR 16, 1991 03h 01m 56.26±0.63s

57.917 S ±13.5km 27.251 W ±15.9km
 DEPTH = 140.0km (geophysicist)
 5.0mb (3 obs.)

SOUTH SANDWICH ISLANDS REGION (153)

SPA 32.26 180 iPc 08 16.00 3.0
 1.0s 36.00nm 5.1mb
 PPD 39.86 324 eP 09 18.30 1.0
 PDCR 46.18 344 eP 10 09.10 0.7
 SOB1 49.72 342 eP 10 36.00 0.2
 SLR 50.39 75 iPd 10 42.00 1.1
 LPB 51.21 306 P 10 47.80 0.2
 BUL 55.19 71 iPd 11 17.10 0.6
 LSZ 59.09 68 iPc 11 44.00 0.0
 KMZ 59.51 65 iPd 11 48.00 1.2
 LIC 66.41 24 P 12 32.32 0.3
 KIC 66.61 24 P 12 33.36 0.1
 TIC 66.82 24 P 12 34.70 0.1
 0.6s 5.00nm 4.6mb
 BFD 84.88 172 iPd 14 16.30 0.4
 ASPA 97.21 163 iPc 15 13.00 -0.9
 0.8s 8.10nm 5.2mb
 DMN 124.75 93 PKP 20 38.26 -2.3
 GKN 124.81 92 PKP 20 37.94 -2.6X
 0.4s 6.00nm
 PKI 124.88 93 PKP 20 38.42 -2.5X
 0.6s 6.00nm
 KKN 124.99 93 PKP 20 38.58 -2.4
 0.5s 10.00nm
 FRB 125.39 339 ePKP 20 37.00 -3.3X
 GUN 125.40 93 PKP 20 39.80 -2.1
 0.4s 7.00nm
 YKA 137.52 317 ePKP 20 53.50 -10.0X
 0.8s 5.10nm
 INK 147.21 319 ePKP 21 19.00 -1.1
 FBA 151.71 309 PKP 21 30.30 3.2X
 S.D. = 1.4 on 18 of 23 obs.

& APR 16, 1991 04h 06m 39.30s
 38.560 N 87.990 W
 DEPTH = 15.7km
 SOUTHERN INDIANA (489)
 <SLM-P>. mbLg 2.7 (SLM). 3.0
 (GS). Felt in the Olney,
 Illinois area.

WSIL 0.09 227 iP 06 42.00 -0.7
 BPIL 0.59 233 iP 06 49.80 -1.0
 eS 06 59.00
 NHIL 0.65 193 eP 06 51.60 -0.2
 eS 07 00.00
 ELC 1.61 218 eP 07 06.80 -0.3
 eS 07 20.50
 FVM 2.00 254 eP 07 12.80 -0.1
 MFTN 2.64 205 eP 07 21.60 -0.4
 RSCP 3.53 146 e(P) 07 42.00 7.3
 7 obs. associated

? APR 16, 1991 07h 33m 45.59±3.92s
 24.225 S ±33.3km 179.859 W ±13.0km
 DEPTH = 628.7 ±56.2 km
 5.3mb (4 obs.)

SOUTH OF FIJI ISLANDS (171)

PUZ 13.90 186 eP 36 42.40 -0.1
 WLZ 14.12 195 eP 36 46.00 1.4
 NOZ 14.46 187 eP 36 47.00 -0.8
 MNG 16.81 192 eP 37 09.40 -0.8
 MTW 17.33 192 eP 37 13.70 -1.4
 CAW 17.36 193 eP 37 13.60 -1.8
 MRW 17.56 194 eP 37 17.00 -0.2
 TCW 17.64 195 eP 37 18.20 0.3
 THZ 18.50 197 eP 37 27.30 1.3
 KHZ 18.95 195 P 37 30.70 0.7
 LTZ 19.62 197 P 37 36.60 0.4
 BRS 24.82 257 iPd 38 33.00 10.2X
 COO 25.83 250 iPc 38 33.70 2.1
 STK 34.73 249 iPd 40 08.40 21.5X
 0.4s 8.00nm
 ASPA 42.11 261 eP 40 46.90 0.2
 0.6s 43.30nm 5.1mb
 WB2 42.50 266 iPc 40 48.50 -1.2
 0.4s 40.60nm 5.2mb
 e 41 12.40
 WRA 42.51 266 P 40 48.00 -1.8
 0.3s 47.90nm 5.4mb
 FORR 46.28 250 iPd 41 19.30 0.7

0.3s 35.00nm 5.3mb
 KNA 48.79 270 eP 41 36.50 -1.1
 KLB 54.98 247 eP 42 22.80 1.1
 BAL 56.03 248 iPd 42 30.10 1.1
 TNE 85.38 45 P 45 19.90 0.6
 ANMG 91.06 52 P 45 47.50 1.7
 FBA 92.24 13 P 45 50.50 0.2
 GOL 94.08 48 P 45 59.20 -0.5
 HFS 142.89 349 ePKP 52 07.70 -2.1
 0.3s 3.10nm
 S.D. = 1.3 on 24 of 26 obs.

% APR 16, 1991 07h 42m 42.57 ± 0.93s
 44.898 N ± 7.4km 7.729 E ± 7.4km
 DEPTH = 31.6 ± 7.7 km

NORTHERN ITALY (545)
 ML 2.2 (GEN).

BHB 0.34 261 P 42 50.74 0.0
 S 42 55.97
 RSP 0.42 307 P 42 51.21 -0.8
 S 42 57.36
 PZZ 0.60 229 P 42 55.26 0.5
 S 43 01.82
 ROB 0.61 170 P 42 55.36 0.4
 S 43 03.87
 RRL 0.67 272 P 42 56.59 0.6
 S 43 05.00
 PCP 0.68 121 P 42 56.08 0.2
 S 43 06.33
 LSD 0.69 324 P 42 56.49 0.2
 S 43 03.97
 ENR 0.71 198 P 42 55.56 -0.7
 S 43 04.69
 STV 0.71 204 P 42 56.08 -0.3
 S 43 06.33
 FIN 0.77 153 P 42 57.00 -0.1
 S 43 07.38
 S.D. = 0.6 on 10 of 10 obs.

APR 16, 1991 08h 13m 44.04 ± 0.41s
 44.363 N ± 1.9km 6.783 E ± 3.3km
 DEPTH = 13.9 ± 3.2 km

FRANCE (538)
 ML 2.8 (LDG), 2.7 (GEN).

PZZ 0.27 58 P 13 50.24 0.2
 S 13 54.55
 DOI 0.36 67 Pd 13 51.60 -0.1
 eSg 13 57.80
 STV 0.41 107 P 13 52.29 -0.3
 S 13 58.14
 ENR 0.48 106 P 13 53.43 -0.3
 S 14 00.30
 TOUF 0.48 136 Pg 13 53.48 -0.5
 MVIF 0.54 150 Pg 13 54.24 -0.6
 Sg 14 01.95
 RRL 0.56 0 P 13 54.45 -0.8
 S 14 02.55
 BHB 0.59 35 P 13 55.28 -0.3
 S 14 03.42
 AUTN 0.59 128 Pg 13 55.65 -0.2
 CALN 0.62 173 Pg 13 55.76 -0.4
 AURF 0.62 140 Pg 13 55.97 -0.2
 Sg 14 04.99
 SAOF 0.67 124 Pg 13 57.14 0.1
 Sg 14 06.83
 SBF 0.69 137 Pg 13 57.30 0.0
 Sg 14 07.60
 BNI 0.69 354 P 13 57.70 0.2
 eSg 14 06.20
 REVf 0.75 146 Pg 13 59.09 0.7
 ROB 0.78 95 P 13 59.47 0.5
 S 14 10.27
 FRF 0.81 187 Pg 13 59.20 -0.1
 Sg 14 10.40
 RSP 0.86 23 P 14 00.60 0.3
 S 14 11.68
 IMI 0.92 119 P 14 01.52 0.3
 S 14 14.03
 LRG 0.96 199 Pg 14 02.80 0.9
 Sg 14 15.00
 FIN 1.04 98 P 14 03.78 0.5
 S 14 17.49
 LMR 1.05 191 Pg 14 03.60 0.2
 Sg 14 18.00
 CKI 1.07 86 P 14 04.40 0.5

eSg 14 19.00
 LSD 1.13 13 P 14 04.50 -0.5
 S 14 19.89
 LPG 1.13 359 Pg 14 05.40 0.3
 Sg 14 21.20
 LPL 1.15 358 Pg 14 05.60 0.2
 PCP 1.27 81 P 14 07.58 0.2
 S 14 24.65
 PGF 2.43 138 Pn 14 23.15 -0.8
 S.D. = 0.5 on 28 of 28 obs.

% APR 16, 1991 09h 19m 06.24 ± 2.12s
 18.395 N ± 23.3km 100.396 W ± 16.2km
 DEPTH = 33.0km (normol)
 GUERRERO, MEXICO (59)

III 0.88 91 eP 19 21.80 -0.6
 iS 19 34.50
 UNM 1.48 51 (P) 19 47.50 16.4X
 MRX 1.50 330 iP 19 31.12 0.0
 iS 19 44.00
 PPM 1.80 68 eP 19 36.06 0.0
 IIA 1.81 65 (P) 19 39.35 3.8X
 IIT 2.07 72 iP 19 40.01 0.3
 IISM 2.92 78 (P) 19 56.13 4.7X
 OXX 3.74 110 (P) 20 03.50 0.3
 S.D. = 0.6 on 5 of 8 obs.

? APR 16, 1991 09h 34m 22.15 ± 2.63s
 13.722 N ± 28.4km 93.025 W ± 10.5km
 DEPTH = 33.0km (normol)
 4.0mb (3 obs.)
 OFF COAST OF CHIAPAS, MEXICO (68)

TPX 1.39 32 iP 34 46.47 1.1
 iS 35 00.14
 SCX 3.02 7 iP 35 09.09 0.3
 iS 35 39.13
 OXX 4.89 314 iP 35 35.15 -0.3
 (S) 36 19.54
 IISM 6.70 322 eP 35 58.50 -2.3
 (S) 37 13.95
 IIT 7.31 317 (P) 36 09.93 0.3
 (S) 37 37.41
 PPM 7.56 315 eP 36 14.22 0.9
 (S) 37 35.73
 III 7.73 308 iP 36 16.00 0.5
 MRX 9.83 308 iP 36 45.60 1.3
 TUL 22.23 354 e(P) 39 16.20 -1.4
 0.8s 4.40nm 4.0mb
 ALO 24.36 332 eP 39 38.70 0.1
 0.9s 3.15nm 3.9mb
 GOL 28.07 339 P 40 13.00 0.0
 TNP 32.40 323 P 40 52.00 0.6
 YKA 51.07 347 eP 43 22.50 -0.7
 0.5s 1.20nm 4.1mb
 INK 60.42 344 eP 44 30.00 -0.4
 S.D. = 1.1 on 14 of 14 obs.

APR 16, 1991 09h 56m 07.11 ± 0.20s
 36.257 N ± 4.7km 71.261 E ± 3.3km
 DEPTH = 126.6km (5 depth phases)
 5.1mb (65 obs.)

AFGHANISTAN-USSR BORDER REGION (717)

Felt in northwestern Pakistan.

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 17S, 25C

Centroid Location:

Origin Time 09:56: 7.0 1.0

Lot 36.03N 0.09 Lon 71.18E 0.12

Dep 151.4 3.1 Half-duration 1.5

Moment Tensor: Scale 10**16 Nm

Mrr= 4.86 0.56 Mtt=-5.60 0.72

Mff= 0.74 0.82 Mrt= 4.32 0.55

Mrf= 3.59 0.64 Mtf= 0.83 0.88

Principal Axes:

T Vol= 8.21 Plg=58 Azm=304

N -1.03 23 77

P -7.18 21 176

Best Double Couple: Mo=7.7*10**16

NP1: Strike=300 Dip=32 Slip= 138

NP2: 68 69 65

QUE 7.05 212 iPd 57 48.20 -1.1

e 59 06.40

NDI 9.07 145 iPd 58 12.00 -4.4X

0.5s 140.85nm 5.9mb
 iS 59 46.00
 GKN 14.00 122 P 59 16.44 -4.7X
 0.5s 416.00nm 5.9mb
 DMN 14.57 122 P 59 23.70 -4.8X
 0.4s 211.00nm 5.8mb
 KKN 14.57 121 P 59 23.34 -5.2X
 0.7s 339.00nm 5.8mb
 WMO 14.67 54 iPd 59 25.70 -3.8X
 1.0s 100.00nm 5.1mb
 SP 00 04.70

PKI 14.80 122 P 59 26.58 -4.9X
 GUN 14.91 120 P 59 27.88 -5.1X
 TEH 16.10 274 eP 59 52.00 4.5X
 BOM 17.35 175 eP 00 02.50 -0.3
 eS 03 22.50

POO 17.80 172 iPd 00 07.00 -1.4
 iS 03 18.00
 LSA 17.91 106 iPd 00 07.50 -2.6
 HYB 19.85 159 iPd 00 30.00 -0.4
 1.2s 285.70nm 5.5mb
 iS 04 00.50
 TAB 19.94 283 eP 00 36.00 4.7X
 BBU 20.37 246 iPn 00 37.60 2.1
 (Sn) 01 19.60
 DHR 20.56 247 ePc 00 38.00 0.6
 SHL 20.61 115 iP 00 38.00 -0.2
 iS 04 12.00

GTA 22.73 73 P 01 00.00 1.0
 1.0s 60.00nm 4.9mb
 Z 12s 0.80um 4.4MsZX

PP 01 37.00
 GBA 23.23 165 Pd 01 05.10 1.4
 0.6s 26.20nm 4.8mb
 RYD 24.09 248 ePc 01 13.50 1.4
 LZH 26.24 81 Pc 01 33.00 0.9
 1.6s 53.00nm 4.9mb
 KOD 26.51 166 eP 01 35.90 1.0
 CD2 27.51 92 eP 01 44.30 0.7
 S 06 13.50
 IRK 28.26 45 eP 01 49.70 -0.3
 e 02 17.20 129km
 e 03 20.50

CHG 29.92 118 ePc 02 05.00 -0.1
 0.9s 136.55nm 5.7mb
 OBN 30.24 320 iP 02 08.00 0.5
 1.1s 780.00nm 6.4mb X
 pP 02 48.00 195kmX
 BBTk 30.37 289 eP 02 10.00 0.9
 BTO 30.50 70 P 02 10.50 0.3
 XAN 30.75 83 P 02 12.30 -0.1
 BDT 31.01 120 eP 02 14.50 -0.2
 GYA 31.62 98 P 02 20.40 0.3
 HHC 31.65 69 P 02 21.00 0.7
 KHT 32.45 124 eP 02 20.80 -6.4X
 TIY 32.74 75 Pc 02 30.20 0.5

E 13s 0.32um
 NST 32.87 121 eP 02 35.30 4.4X
 YLV 32.88 290 iP 02 31.60 0.7
 ELL 33.06 283 iP 02 33.50 0.9
 DST 33.56 289 eP 02 38.00 1.2
 VRI 34.53 300 eP 02 42.00 -3.0X
 ISR 34.67 299 ePd 02 49.50 3.3X
 CVO 34.92 300 ePd 02 53.50 5.2X
 MLR 35.08 300 ePd 02 53.00 3.2X
 BJI 35.24 70 P 02 52.00 1.0
 0.7s 34.00nm 5.3mb

ePP 03 22.00
 eS 08 14.00
 ScP 08 51.50
 CMP 35.73 299 ePc 02 59.00 3.9X
 WHN 36.20 86 Pd 03 01.00 1.9
 RZN 36.24 293 iPd 03 01.00 1.3
 TIA 36.72 76 eP 03 04.50 1.0
 VAY 37.89 293 eP 03 14.00 0.7
 NUR 38.15 324 iP 03 15.90 0.8
 0.9s 62.50nm 5.4mb

SKO 38.63 294 eP 03 15.00 -4.5X
 SPC 38.92 306 eP 03 22.40 0.4
 PSZ 39.18 304 eP 03 27.10 3.1X
 NJ2 39.30 82 Pd 03 26.20 1.1
 SNG 39.46 130 eP 03 26.80 0.3
 DL2 39.60 71 eP 03 29.30 1.9
 SOD 40.05 335 iP 03 31.00 0.2
 UZD 40.15 302 eP 03 33.30 1.4
 SRO 40.25 304 eP 03 33.60 0.9
 SNY 40.49 66 Pc 03 34.60 -0.1

	1.4 s	14.73nm	5.4mb		
SPA	126.07 180 iPKPd	14 53.00	-2.0		
	1.0 s	9.50nm			
SIV	133.21 283 PKP	15 09.20	-0.7		
	S.D. = 1.2	on 128 of 152 obs.			
<hr/>					
?	APR 16, 1991	10h 53m 49.12± 1.29s			
	41.058 N ±13.3km	22.361 E ± 7.6km			
	DEPTH = 5.0km	(geophysicist)			
	YUGOSLAVIA		(383)		
GRG	0.11 163 ePc	53 51.72	0.3		
		eS 53 52.84			
KNT	0.42 75 ePd	53 57.80	0.3		
		eS 54 03.92			
SOH	0.79 107 iPc	54 04.48	-0.5		
		eS 54 16.08			
FNA	0.79 250 iPc	54 05.01	-0.1		
	S.D. = 0.6	on 4 of 4 obs.			
<hr/>					
&	APR 16, 1991	11h 12m 44.40s			
	58.871 N	154.320 W			
	DEPTH = 106.1km				
	ALASKA PENINSULA		(12)		
	<AEIC>.				
MCNL	0.32 358 iP	12 59.34	-0.7		
		eS 13 10.18			
CDD	0.36 80 iP	12 59.44	-0.8		
		eS 13 10.94			
AUI	0.66 44 eP	13 01.61	-0.6		
		eS 13 14.43			
AUH	0.67 42 eP	13 02.55	0.1		
PDB	0.92 4 iP	13 03.72	-1.0		
SYI	1.04 104 eP	13 04.95	-1.0		
		S 13 21.18			
HOM	1.59 59 eP	13 11.72	-0.7		
		eS 13 32.12			
CNPM	1.72 66 eP	13 12.65	-1.5		
RED	1.74 26 iP	13 13.36	-1.1		
RS2	1.78 26 iP	13 14.13	-1.0		
RSO	1.78 26 eP	13 13.90	-1.2		
RDW	1.79 25 iP	13 14.14	-1.1		
REF	1.82 26 iP	13 14.46	-1.1		
RDN	1.83 25 iP	13 14.58	-1.0		
NCT	1.84 22 iP	13 14.61	-1.1		
DFR	1.91 25 eP	13 15.53	-1.2		
NNL	1.94 51 eP	13 16.10	-0.8		
RDT	1.96 29 eP	13 15.83	-1.5		
BRLK	1.98 62 eP	13 16.55	-0.9		
CKL	2.54 22 iP	13 23.64	-1.3		
SPU	2.58 25 eP	13 23.83	-1.6		
BGL	2.59 21 eP	13 24.20	-1.4		
CRP	2.64 23 eP	13 24.87	-1.4		
NCG	2.76 22 eP	13 27.72	-0.2		
SUA	3.16 33 eP	13 31.59	-1.7		
PMS	3.37 43 eP	13 33.51	-2.6		
SKT	3.41 23 eP	13 34.93	-1.7		
LTl	3.50 68 eP	13 35.13	-2.7		
PWA	3.56 37 eP	13 36.47	-2.1		
MTU	3.59 69 eP	13 36.43	-2.6		
KNIM	3.66 63 eP	13 36.42	-3.6		
PLRM	3.76 41 eP	13 37.87	-3.5		
KNK	3.89 46 eP	13 39.95	-3.2		
GHO	3.96 40 eP	13 40.71	-3.4		
CUT	4.07 28 eP	13 43.12	-2.4		
	35 obs. associated				
<hr/>					
	APR 16, 1991	11h 33m 52.37± 0.53s			
	36.880 N ± 8.0km	73.200 E ± 8.8km			
	DEPTH = 33.0km (normol)				
	4.5mb (12 obs.)				
	NORTHWESTERN KASHMIR		(720)		
	ML 4.9 (BJI).				
KSH	3.38 40 Pn	34 51.00	6.8X		
QUE	8.47 220 iPc	35 56.50	0.6		
		eS 37 32.40			
NDI	8.84 156 eP	36 03.50	2.6		
	0.6 s	16.67nm	5.4mb		
		iS 37 39.00			
MAIO	11.04 271 eP	36 29.00	-2.1		</

GKN	13.09	129	P	36	57.42	-1.3	BJI	36.90	345	eP	11	46.50	0.4	BRVW	0.18	234	Pc	34	46.77	0.0			
KKN	13.64	128	P	37	04.54	-1.5		1.0s	26.00nm				5.1mb				S	34	50.16				
DMN	13.66	129	P	37	04.28	-2.1	KLB	37.13	194	eP	11	48.00	-0.2	GBL	0.22	89	Pd	34	47.31	0.2			
PKI	13.88	128	P	37	06.02	-3.3X	MUN	37.90	196	eP	11	54.50	-0.2				S	34	51.17				
	0.6s	47.00nm				5.4mb	LZH	38.38	328	iPd	12	00.20	1.3	WAH2	0.22	42	Pc	34	47.40	0.2			
GUN	13.94	126	P	37	07.14	-3.0		1.2s	39.00nm				5.1mb				S	34	51.24				
POO	18.29	178	eP	38	05.50	0.2	NWAO	38.53	194	eP	12	00.40	0.4	BVW	0.23	341	Pd	34	47.44	0.1			
HYB	19.96	165	eP	38	26.00	1.4	HHC	39.01	340	P	12	05.80	1.7	RSW	0.24	148	Pd	34	47.64	0.1			
			eS	42	04.00		RKG	39.67	194	iPd	12	15.20	5.7X	LOCW	0.27	62	Pc	34	48.20	0.3			
GTA	21.06	75	iPc	38	38.40	2.4	MDJ	39.99	2	eP	12	13.00	1.0				S	34	52.69				
	0.8s	10.00nm				4.3mb	GTA	42.98	328	iPc	12	37.60	0.9	MJ2	0.29	97	Pd	34	48.33	0.1			
			PP	38	45.00			0.8s	10.00nm				4.6mb				S	34	53.04				
GBA	23.49	178	Pd	39	02.90	2.9X	GUN	46.11	305	P	13	02.48	0.2	CRF	0.35	49	Pc	34	49.36	0.0			
	0.7s	6.40nm				4.2mb	DZM	46.16	126	iPd	13	02.60	0.2				S	34	54.93				
LZH	24.60	83	eP	39	14.00	3.0X	PKI	46.37	304	P	13	03.36	-1.0	MXC	0.36	268	Pc	34	49.56	0.1			
	2.0s	25.00nm				4.4mb	KKN	46.55	305	P	13	05.50	-0.2				S	34	55.47				
			PP	39	20.00		DMN	46.63	304	P	13	06.70	0.4	WIW	0.37	115	Pd	34	49.74	0.1			
CD2	25.99	94	eP	39	26.60	2.7X	GKN	47.16	305	P	13	07.74	-2.7				S	34	55.68				
MLR	36.14	299	eP	41	00.00	6.6X	WMQ	52.69	324	P	13	52.70	0.3	PRW	0.39	171	Pd	34	50.03	0.1			
NUR	38.56	323	eP	41	14.00	0.6	YAK	57.41	1	iP	14	25.70	-0.5	OT2	0.39	71	P	34	50.06	0.0			
SOD	40.16	334	iP	41	31.00	4.5X	FBA	83.60	25	P	17	04.00	-0.8	VTG	0.39	338	P	34	49.90	-0.1			
KEY	41.12	338	eP	41	34.00	-0.3	INK	89.08	22	eP	17	30.50	-1.2	RC1	0.42	34	Pc	34	50.59	0.1			
HFS	43.87	322	eP	41	55.80	-1.1	YKA	98.39	25	eP	18	12.80	-1.6	YAKW	0.53	262	Pc	34	52.53	0.2			
	0.6s	2.50nm				4.2mb		0.9s	0.80nm				4.2mb	WRD	0.57	49	Pc	34	52.79	-0.3			
NB2	45.15	323	P	42	06.70	-0.6	S.D. = 1.0 on 37 of 38 obs.										ET3	0.58	91	Pc	34	53.13	0.0
	0.7s	6.20nm				4.6mb																	

16d 14h

KNT 2.35 77 ePc 27 00.22 0.0
 eS 27 31.10
 VLS 2.57 167 ePb 27 04.50 1.1
 MGR 3.34 262 P 27 15.00 0.8
 eSn 27 53.10
 S.D. = 1.2 on 12 of 14 obs.

APR 16, 1991 14h 55m 30.88±0.65s
 27.194 N ±11.3km 100.657 E ± 5.8km
 DEPTH = 10.0km (geophysicist)
 YUNNAN PROVINCE, CHINA (318)
 ML 3.6 (BJI).

KMI 2.78 137 ePn 56 15.50 -1.0
 Pg 56 24.50
 Sg 57 04.00
 CD2 4.59 36 ePn 56 40.60 -1.4
 Z 10s 0.70um
 ePg 56 45.40
 Sg 57 36.40
 GYA 5.42 96 Pn 56 55.20 1.4
 Sg 57 56.60
 GUN 13.13 277 P 58 41.00 0.6
 PKI 13.56 275 P 58 46.00 0.0
 KKN 13.66 276 P 58 47.50 0.2
 DMN 13.82 275 P 58 50.00 0.5
 GKN 14.23 277 P 58 53.80 -0.9
 TIY 14.44 40 eP 58 58.00 0.7
 CN2 25.97 44 eP 01 07.50 2.3X
 S.D. = 1.1 on 9 of 10 obs.

? APR 16, 1991 15h 26m 07.78±3.73s
 24.415 N ±35.2km 123.795 E ±22.5km
 DEPTH = 32.3 ± 14.9 km
 4.2mb (2 obs.)
 SOUTHWESTERN RYUKYU ISLANDS (246)

TWC 1.78 277 ePc 26 36.80 0.0
 eS 26 58.50
 TWF1 2.52 246 ePc 26 47.50 0.1
 TWG 2.96 238 eP 26 53.60 0.0
 WB2 45.27 166 eP 34 23.50 -0.8
 0.9s 1.00nm 3.7mb
 ASPA 48.79 168 eP 34 52.70 0.8
 0.8s 5.40nm 4.6mb
 S.D. = 1.1 on 5 of 5 obs.

& APR 16, 1991 15h 30m 00.07s
 37.245 N 116.442 W
 DEPTH = 0.0km
 5.4mb (62 obs.)
 SOUTHERN NEVADA (41)
 <DOE>. ML 5.4 (BRK). 37' 14'
 43.59" N., 116' 26" 29.88" W.,
 Surface Elev. 1988 m., Depth of
 Burial 600 m., Shot Time
 153000.071, "MONTELO," Nevada
 Test Site (Dept. of Energy).

TNP 1.04 324 iPc 30 20.80 0.0
 BONR 1.64 296 iPc 30 30.60 0.1
 CLC 1.70 213 iPc 30 30.80 -0.4
 GSC 1.96 189 iPc 30 34.30 -0.7
 KVN 2.23 325 iPc 30 38.50 -0.5
 FRI 2.62 265 iPc 30 44.20 -0.2
 SBB 2.79 204 iPc 30 46.00 -0.9
 TPC 3.15 174 iPc 30 50.90 -1.0
 PKEM 3.18 249 eP 30 52.80 0.5
 CMB 3.23 285 iPc 30 52.30 -0.8
 ABL 3.28 224 iPc 30 53.40 -0.6
 MWC 3.29 204 iPc 30 53.70 -0.4
 PEC 3.40 190 iPc 30 55.10 -0.4
 PRI 3.57 253 ePc 30 57.40 -0.6
 BCH 3.59 236 iPc 30 57.80 -0.5
 MSU 3.61 68 iP 30 57.80 -0.8
 LLA 3.66 261 ePc 30 57.80 -1.4
 PLM 3.90 185 iP 31 02.20 -0.6
 SYP 3.95 228 ePc 31 03.30 -0.1
 SAO 4.03 265 iPn 31 03.00 -1.5
 iPb 31 10.40
 PRS 4.06 259 iPc 31 03.80 -1.0
 ARN 4.06 273 eP 31 04.00 -0.9
 DUG 4.09 43 eP 31 03.70 -1.7
 MHC 4.15 273 ePnc 31 05.80 -0.4
 iPb 31 15.00
 ISg 32 14.00
 CIS 4.15 203 ePc 31 05.10 -1.0

BLP 4.18 231 eP 31 06.10 -0.4
 GLA 4.39 162 iPc 31 08.20 -1.4
 CPE 4.39 187 ePc 31 08.50 -1.0
 GCC 4.44 269 e(P) 31 09.20 -1.1
 BAR 4.56 182 ePc 31 10.80 -1.1
 ORV 4.59 302 iPc 31 11.30 -1.1
 BKS 4.65 280 iPc 31 12.20 -1.0
 e 31 20.00
 e 31 23.00

BRK 4.67 279 ePc 31 11.20 -2.2
 ZSP 4.67 280 e(Pn) 31 13.00 -0.5
 iPb 31 23.60

PCC 4.74 275 ePc 31 13.00 -1.5
 MIN 5.08 309 iPc 31 18.70 -0.8
 LBFM 5.88 316 iPc 31 30.90 0.0
 PV09 5.92 76 eP 31 30.00 -1.4
 FHC 6.86 303 eP 31 43.00 -1.5
 BW06 7.64 42 iPc 31 55.00 -0.6
 ALQ 8.40 103 ePc 32 03.50 -2.7
 ANMO 8.40 103 eP 32 04.00 -2.2
 GOL 9.02 71 eP 32 14.20 -0.7
 LRM 9.08 18 ePc 32 16.70 1.2
 GLD 9.15 71 eP 32 16.30 -0.2
 NEW 11.02 358 eP 32 42.20 0.1
 RSSD 11.65 50 eP 32 47.60 -3.2
 PNT 12.28 350 P 33 00.00 0.8
 0.9s 8.80nm 5.1mb

PGC 12.49 338 eP 33 06.50 4.6
 EDM 16.12 7 iPd 33 49.00 -0.6
 0.8s 200.40nm 5.3mb
 MZX 16.44 146 (P) 33 56.00 2.2
 TUL 16.64 88 ePc+ 33 54.80 -1.5
 1.0s 173.80nm 5.1mb
 Z 19s 0.32um 4.8msz
 N 20s 0.44um
 E 18s 0.81um

FFC 20.09 25 iPc 34 35.70 -2.2
 0.9s 363.00nm 5.7mb
 FVM 20.61 80 eP 34 42.40 -1.1
 1.0s 210.00nm 5.4mb
 MRX 21.97 139 (P) 35 00.00 2.6
 PPM 23.90 134 (P) 35 18.50 1.6
 III 23.99 137 (P) 35 18.00 0.6
 IIT 24.12 134 (P) 35 21.00 2.2
 IISM 24.69 132 (P) 35 25.00 1.1
 RSCP 24.85 84 eP 35 25.00 -0.5
 YKA 25.30 2 eP 35 27.20 -2.3
 1.1s 33.00nm 5.0mb

OXX 26.57 134 (P) 35 38.00 -3.9
 BLA 28.58 79 eP 35 59.00 -0.8
 1.0s 45.00nm 5.3mb
 JSC 28.61 85 eP 35 58.70 -1.4
 WVLY 29.37 68 ePc 36 05.00 -1.9
 CVL 29.96 77 eP 36 10.70 -1.5
 TOA 30.94 333 ePc 36 21.80 1.1
 1.1s 113.80nm 5.7mb
 GAC 31.55 61 ePc 36 25.50 -0.6
 1.0s 51.00nm 5.4mb

LVNJ 32.35 71 eP 36 31.90 -1.3
 INK 32.54 348 ePc 36 32.60 -1.9
 TBR 32.72 70 eP 36 34.80 -1.6
 PDB 32.97 325 iPc 36 38.20 -0.1
 SVW 34.19 327 iPc 36 48.90 -0.1
 1.1s 182.20nm 5.9mb

BNH 34.56 63 eP 36 50.80 -1.6
 SDN 34.69 316 eP 36 53.00 -0.3
 1.0s 140.00nm 5.8mb
 TTA 35.18 330 ePc 36 57.50 -0.1
 IMA 35.96 335 iPc 37 04.20 0.0
 1.1s 36.00nm 5.1mb
 SCH 37.77 46 ePc 37 16.70 -2.7
 1.2s 80.00nm 5.3mb

FRB 38.95 32 ePc 37 27.80 -1.3
 0.7s 57.00nm 5.3mb
 ANM 39.65 329 eP 37 35.80 0.9
 BRW 39.94 341 ePd 37 37.40 0.1
 UPA 43.63 121 ePc 38 07.40 -0.7
 SDV 50.05 112 iP 38 58.70 -0.2
 TOV 50.08 111 eP 38 58.70 -0.3
 DAG 55.81 16 iPc 39 37.60 -3.2
 0.7s 14.38nm 5.1mb
 ZOBO 70.01 130 iPc 41 14.00 -2.4
 1.0s 31.25nm 5.4mb
 KEV 70.01 13 eP 41 09.00 -6.1
 LPB 70.22 130 P 41 15.00 -2.6
 EKA 71.68 34 Pd 41 22.90 -2.5

1.4s 26.10nm 5.2mb
 SOD 72.01 14 iP 41 24.20 -3.0
 CCH 72.07 129 P 41 27.00 -1.6
 NB2 73.19 24 P 41 32.00 -2.3
 0.8s 14.50nm 5.1mb
 SIV 74.27 125 iPc 41 39.40 -1.7
 HFS 74.68 23 iPc 41 40.50 -2.4
 0.7s 34.90nm 5.5mb

OFUJ 75.50 308 P 41 46.40 -1.6
 KAF 76.52 17 iP 41 50.60 -2.7
 0.6s 6.50nm 4.9mb
 YAMJ 77.07 308 P 41 55.50 -1.3
 FLN 77.25 38 eP 41 56.30 -1.3
 1.0s 54.00nm 5.6mb
 GRR 77.32 38 iPc 41 56.90 -1.1
 1.1s 48.85nm 5.5mb
 LPF 77.47 38 iPc 41 57.50 -1.3
 1.0s 46.00nm 5.6mb

NUR 77.50 19 iP 41 57.20 -1.5
 1.0s 28.00nm 5.3mb
 LDF 77.54 38 eP 41 57.80 -1.4
 1.1s 61.05nm 5.6mb
 NIJJ 78.28 308 P 42 02.20 -1.3
 DOU 78.70 34 P 42 04.20 -1.3
 0.9s 65.00nm 5.7mb
 MFF 78.89 39 eP 42 05.50 -1.1
 1.1s 53.70nm 5.5mb

MEM 78.95 33 Pc 42 05.70 -1.2
 CHJJ 79.02 307 P 42 06.70 -0.9
 MDJ 79.03 318 eP 42 05.50 -1.9
 MAT 79.21 308 eP 42 07.00 -1.6
 1.1s 29.11nm 5.2mb
 MTMJ 79.44 308 P 42 09.00 -1.0
 LSF 79.97 38 iPc 42 10.90 -1.6
 1.0s 22.00nm 5.0mb

IIDJ 80.06 307 eP 42 12.30 -1.0
 ABH 80.16 33 eP 42 11.57 -1.9
 TCF 80.28 38 iPc 42 12.50 -1.7
 1.0s 36.00nm 5.3mb
 SSF 80.36 37 iPc 42 13.20 -1.4
 1.2s 58.00nm 5.4mb
 LOR 80.38 37 iPc 42 13.40 -1.3
 1.1s 95.40nm 5.7mb
 BGF 80.40 38 eP 42 13.20 -1.6
 0.9s 47.50nm 5.5mb

AVF 80.48 37 iPc 42 13.80 -1.4
 1.0s 26.00nm 5.2mb
 LFF 80.48 40 eP 42 14.10 -1.2
 1.0s 60.00nm 5.5mb
 MAF 80.50 38 eP 42 13.80 -1.6
 1.0s 26.00nm 5.2mb
 RJF 80.62 39 eP 42 14.50 -1.5
 1.0s 40.00nm 5.4mb
 LBF 80.64 37 iPc 42 14.50 -1.6
 1.0s 34.00nm 5.3mb

SMF 80.82 37 iPc 42 15.30 -1.7
 1.2s 56.55nm 5.5mb
 LPO 80.89 40 iPc 42 16.20 -1.2
 1.0s 40.00nm 5.4mb
 HAU 81.01 35 iPc 42 16.60 -1.4
 1.1s 65.95nm 5.6mb
 PYM 81.05 38 P 42 16.75 -1.6
 CDF 81.13 34 iPc 42 17.40 -1.3
 1.0s 38.00nm 5.4mb

CAF 81.17 39 iPc 42 17.60 -1.3
 0.9s 42.60nm 5.5mb
 PLDF 81.20 38 P 42 17.84 -1.3
 TSRJ 81.25 308 P 42 18.20 -1.2
 MOX 81.29 30 ePc 42 18.30 -1.1
 TOL 81.32 46 iPc 42 18.50 -1.3
 1.1s 50.63nm 5.5mb
 CLL 81.32 29 iPc 42 18.00 -1.5
 1.3s 34.00nm 5.2mb
 BSF 81.34 35 iPc 42 18.50 -1.4
 0.8s 43.00nm 5.6mb
 LBL 81.54 38 P 42 20.00 -0.7
 EPF 81.60 41 eP 42 19.90 -1.3
 1.1s 26.85nm 5.2mb
 CN2 81.75 320 eP 42 20.00 -1.9
 1.0s 20.00nm 5.2mb
 GRF 81.86 31 iPc 42 22.00 -0.4
 1.1s 34.00nm 5.4mb
 BRG 82.03 29 iPc 42 21.80 -1.4
 1.0s 20.00nm 5.2mb
 SLE 82.15 34 ePd 42 23.10 -0.9
 EMS 82.70 36 ePd 42 26.40 -0.7
 DIX 82.92 36 ePd 42 27.80 -0.5

16d 15h

KSP	82.95	28 eP	42	26.40	-1.7	MAW	149.59	179 iPKPd	49	51.30	4.1	YLV	0.49	297 iPg	57	41.70	-0.6			
PRU	82.97	29 eP	42	27.00	-1.1		0.9s	29.00nm				HRT	0.52	336 iPg	57	48.70				
	1.8s	50.00nm		5.4mb			206 obs. associated					ISK	0.98	317 iPn	57	51.30	-0.3			
LPL	83.02	36 eP	42	28.20	-0.6							KCT	1.22	266 ePn	57	56.30	0.7			
	1.2s	29.75nm		5.4mb			? APR 16, 1991 15h 46m 25.57±1.32s					DST	1.25	234 ePn	57	56.30	0.0			
LPG	83.04	36 eP	42	28.40	-0.6		36.836 N ±16.4km	29.510 E ±10.0km				ALT	1.30	174 ePn	57	57.00	-0.1			
	1.1s	36.65nm		5.5mb			DEPTH = 33.0km (narmol)					CTT	1.40	305 iPn	57	59.70	1.0			
LLS	83.05	34 ePd	42	28.50	-0.4	TURKEY					(366)	BNT	1.54	271 ePn	58	00.30	-0.4			
MMK	83.20	35 ePd	42	29.70	0.0	MD 3.2 (ISK).						EDC	1.59	271 ePn	58	01.00	-0.3			
MAL	83.20	49 iPc	42	30.00	0.4								S.D. = 0.5	an	12 of 12 obs.					
KHC	83.26	30 iPd	42	29.00	-0.7	ELL	0.33	105 iPg	46	33.50	-0.4		? APR 16, 1991 20h 56m 35.29±1.01s							
	1.2s	12.50nm		5.0mb				eSg	46	40.50			37.719 N ± 8.0km	15.028 E ± 9.0km						
LSD	83.26	36 P	42	29.37	-0.7	YER	1.03	287 ePn	46	44.00	0.3		DEPTH = 10.0km (geophysicist)							
BNI	83.34	37 P	42	30.60	0.3	BCK	1.06	54 ePn	46	45.00	0.7	SICILY			(398)					
RRL	83.49	37 P	42	30.70	-0.5	KHL	1.48	0 ePn	46	49.70	-0.6									
ORX	83.52	36 P	42	30.29	-0.9		S.D. = 1.0	an	4 of 4 obs.			MNO	0.34	309 P	56	42.10	-0.3			
RSP	83.54	36 P	42	30.60	-0.7								eSg	56	47.30					
VDL	83.56	34 ePd	42	31.20	-0.3		APR 16, 1991 16h 26m 59.64±0.71s					ATN	0.56	38 P	56	46.70	0.1			
OSS	83.70	34 ePd	42	32.10	-0.1		41.108 N ± 7.3km	22.498 E ± 5.8km					eSg	56	56.70					
BHB	83.77	37 P	42	31.21	-1.2		DEPTH = 10.0km (geophysicist)					MEU	0.62	187 P	56	47.80	-0.1			
CDR	83.91	38 iPc	42	32.00	-1.1	YUGOSLAVIA					(383)		eSg	56	58.20					
PZZ	83.95	37 P	42	32.44	-1.0	ML 1.4 (SKO).						GIB	0.84	289 P	56	51.80	0.3			
DOI	84.02	37 P	42	32.60	-1.1								eSg	57	03.90					
IRK	84.03	336 eP	42	33.00	-0.6	GRG	0.17	206 iPc	27	03.14	-0.4		S.D. = 0.4	on	4 of 4 obs.					
SNY	84.13	319 Pd	42	34.20	0.0			iS	27	06.22			& APR 16, 1991 21h 29m 47.94s							
	1.6s	50.00nm		5.5mb		VAY	0.22	14 iPg	27	04.20	-0.2		60.636 N	142.310 W						
STV	84.25	37 P	42	31.42	-3.5			i	27	07.30			DEPTH = 0.0km							
ENR	84.31	37 P	42	32.44	-2.8			iSg	27	08.70			SOUTHERN ALASKA			(2)				
LRG	84.37	38 eP	42	34.40	-0.9	KNT	0.31	80 ePc	27	06.22	0.2		<AEIC>. ML 2.8 (AEIC).							
FRF	84.43	38 eP	42	34.50	-1.2			iS	27	11.10										
	0.8s	26.85nm		5.5mb		SOH	0.71	114 ePd	27	13.82	0.2									
ROB	84.47	37 P	42	34.18	-1.8			eS	27	24.58			TGL	0.28	295 iPd	29	54.32	0.7		
LMR	84.53	38 eP	42	35.10	-1.1	SRS	0.83	89 ePc	27	15.50	-0.1			eS	29	58.36				
	1.1s	48.85nm		5.6mb				eS	27	27.34			WAX	0.33	235 iPc	29	54.38	-0.1		
SBF	84.59	37 eP	42	34.90	-1.7	FNA	0.91	250 iPc	27	17.42	0.3			eS	29	59.56				
	1.0s	40.00nm		5.6mb			S.D. = 0.3	on	6 of 6 obs.			BALM	0.40	358 iPd	29	57.09	1.1			
PCP	84.60	36 P	42	34.39	-2.2								eS	30	02.82					
FIN	84.70	36 P	42	34.08	-3.0	? APR 16, 1991 17h 54m 52.76±1.06s							iPd	29	55.96	-0.5				
IMI	84.77	37 P	42	34.70	-2.8	40.646 N ±10.1km	29.905 E ± 7.0km						eS	30	02.57					
CTI	84.86	33 P	42	37.60	-0.4	DEPTH = 10.0km (geophysicist)							eS	30	02.57					
TIO	85.25	55 iP	42	39.40	-0.8	TURKEY					(366)		iPc	29	59.75	0.2				
ZST	85.41	29 eP	42	39.30	-1.2	MD 2.4 (ISK).							eS	30	07.82					
SPC	85.77	27 eP	42	41.50	-1.0								iPd	30	00.52	0.3				
SRO	86.19	29 iP	42	44.10	-0.3	EYL	0.21	112 iPg	54	57.30	-0.1			eS	30	10.33				
PGF	86.33	37 eP	42	43.90	-1.4	HRT	0.25	314 ePg	54	58.30	0.2			eS	30	07.67	-0.4			
	0.9s	19.65nm		5.3mb				eSg	55	02.30			HMT	1.01	254 iPc	30	22.83			
PDCR	87.64	108 eP	42	50.50	-1.3	YLV	0.41	259 iPg	55	00.80	-0.4			eS	30	07.56	-1.8			
VAD	88.64	120 (P)	42	56.00	-0.6	IZI	0.45	227 ePg	55	02.30	0.3			eS	30	22.46				
BJI	89.19	322 eP	42	58.00	-1.0			eSg	55	09.80			RAGM	1.20	259 iPc	30	10.78	-0.4		
	1.2s	14.00nm		5.1mb			S.D. = 0.6	on	4 of 4 obs.				S	30	27.10					
HMC	90.71	326 P	43	05.80	-0.4	? APR 16, 1991 17h 57m 46.88±4.33s							SGAM	1.44	266 ePc	30	14.66	-0.6		
BTO	91.60	326 P	43	10.00	-0.3	16.256 N ±41.3km	100.124 W ±24.5km							eS	30	33.48				
TIA	91.65	319 eP	43	09.60	-0.9	DEPTH = 33.0km (narmol)								eS	30	14.79	-1.4			
OHR	92.75	31 eP	43	14.00	-1.6	3.4mb (1 obs.)							BCPM	1.50	116 ePc	30	33.92			
TIY	92.82	323 P	43	15.90	0.0	NEAR COAST OF GUERRERO, MEXICO					(58)			eS	30	18.51	-0.5			
	Z 16s	0.60um		5.1mszx									CVA	1.70	268 ePc	30	18.32	-1.5		
SSE	93.26	313 iPc	43	17.50	-0.4	III	2.20	16 iP	58	21.38	-0.6			PNL	1.75	122 ePd	30	21.45	-1.3	
	1.0s	24.00nm		5.6mb				iS	58	41.92				KLU	1.95	298 ePd	30	23.36	-0.4	
VAY	93.29	30 eP	43	16.50	-1.4	PPM	3.14	27 iP	58	35.01	-0.6			VLZ	2.03	286 ePc	30	49.87		
DZM	93.44	245 iPc	43	19.90	1.0			(S)	59	11.48				TZL	2.06	315 eP	30	23.71	-0.5	
NJ2	93.87	316 Pc	43	20.50	-0.3	CRX	3.16	8 iP	58	37.00	1.2			HIN	2.09	265 ePc	30	23.15	-1.5	
	E 16s	0.50um						(S)	59	21.00				HQN	2.09	123 eP	30	22.50	-2.2	
WMO	96.39	343 eP	43	30.80	-1.5	UNM	3.19	16 (P)	58	40.00	3.9X			VZW	2.12	283 eP	30	24.50	-0.7	
GTA	96.75	333 eP	43	32.80	-1.2			(S)	59	11.00				S	30	52.75				
	1.4s	10.00nm		5.2mb		IIT	3.25	32 iP	58	35.84	-1.1			GLI	2.36	278 eP	30	27.67	-0.9	
		SP	43	40.40				(S)	59	17.06				TOA	2.37	310 eP	30	28.36	-0.5	
XAN	97.46	323 eP	43	35.60	-1.6	OXX	3.36	75 (P)	58	45.61	7.0X				eS	31	01.39			
LIC	102.99	72 Pd iff	44	00.00	-2.2			(S)	59	24.92				SDG	2.45	322 eP	30	27.74	-2.1	
WRA	116.84	265 PKP	48	46.00	-2.6	MRX	3.58	344 iP	58	44.88	3.5X			KNIM	2.70	266 ePc	30	31.14	-2.3	
	0.6s	4.10nm						iS	59	22.44				SCM	2.71	299 eP	30	31.89	-1.7	
WRA	116.84	265 PKP	48	53.00	4.4	IISM	3.77	44 (P)	58	45.14	1.0				eS	31	08.07			
	1.6s	1.80nm						(S)	59	35.24				TMW	2.72	353 eP	30	33.57	-0.1	
WRA	116.84	265 PKP	48	56.00	7.4	YKA	47.30	351 eP	06	18.60	-0.3			MTU	2.74	259 eP	30	31.87	-2.1	
	0.9s	1.60nm					0.9s	0.40nm		3.4mb				PAX	2.78	329 eP	30	34.79	0.1	
STK	117.23	249 iPKPc	48	49.70	0.7		S.D. = 1.2	on	6 of 9 obs.					LTI	2.82	260 eP	30	32.98	-2.2	
ASPA	119.12	261 ePKP	48	50.60	-2.3									KNK	3.09	287 eP	30	36.72	-2.2	
	1.7s	7.70nm				% APR 16, 1991 18h 57m 32.52±0.48s								RND	4.15	315 eP	30	53.79	-0.2	
GBA	127.76	343 PKPd	49	05.50	-4.1	40.346 N ± 4.3km	29.941 E ± 3.7km							CUT	4.20	298 eP	30	54.12	-0.6	
	1.0s	5.60nm				DEPTH = 5.0km (geophysicist)								CNPM	4.61	260 eP	30	59.35	-1.1	
BUL	145.18	70 iPKPc	49	39.10	-2.7	TURKEY					(366)			SKT	4.64	291 eP	31	00.49	-0.5	
PRY	147.91	82 iPKPc	49	57.00	10.9	MD 2.9 (ISK).								NCG	4.85	283 eP	31	03.31	-0.8	
	1.0s	30.00nm												RDT	4.98	274 eP	31	02.34	-3.4	
SLR	147.98	79 iPKPc	49	49.20	3.0									CDD	5.97	258 eP	31	18.17	-1.6	
	1.0s	40.00nm													36 obs. associated					
SEK	148.66	84 iPKPd	49	59.00	11.7	EYL	0.28	37 iPg	57	38.30	0.2									
	0.6s	30.00nm				GPA	0.29	101 iPg	57	38.20	-0.1									
								iSg	57	42.20										
						IZI	0.36	269 iPq	57	39.80	0.1									

16d 21h

% APR 16, 1991 21h 38m 31.52±1.74s
15.985 N ± 7.6km 61.073 W ±13.0km
DEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)
ML 1.7 (FDF).

MGG 0.24 254 ePc 38 37.52 0.8
S 38 40.80
SFG 0.29 336 eP 38 38.04 0.4
DEG 0.33 2 ePc 38 38.28 0.0
S 38 43.00
DOG 0.53 275 eP 38 42.03 -0.2
PAG 0.59 274 eP 38 43.00 -0.4
S 38 50.30
SEG 0.59 315 eP 38 43.03 -0.4
BBL 0.60 220 eP 38 43.50 -0.2
S.D. = 0.6 on 7 of 7 obs.

* APR 16, 1991 21h 42m 53.53±3.92s
3.976 S ±15.1km 153.082 E ±16.1km
DEPTH = 66.4 ± 31.6 km
4.7mb (2 obs.)
NEW IRELAND REGION (190)

PMG 7.99 227 eP 44 49.00 -0.3
DZM 22.17 145 iPc 47 45.10 -0.4
RMO 22.77 190 eP 47 51.30 0.1
0.3s 4.00nm 4.3mb
BRS 23.29 181 iPd 47 57.00 0.7
MTN 23.42 247 eP 47 59.00 1.4
WB2 24.19 227 iPc 48 05.60 0.5
0.3s 73.30nm 5.6mb X
e 48 18.80
iS 52 17.20
COO 26.48 182 ePc 48 27.20 0.7
ASPA 26.95 222 iPd 48 29.70 -1.1
0.3s 15.10nm 5.0mb
iS 53 02.70
STK 29.78 200 eP 49 14.90 18.7X
0.8s 3.90nm
e 49 17.30
FORR 35.62 219 iPd 49 45.20 -1.7
GUN 71.94 301 P 54 12.80 0.2
PKI 72.26 300 P 54 14.20 -0.3
KKK 72.42 301 P 54 15.20 -0.1
DMN 72.53 300 P 54 16.00 0.0
GKN 73.03 301 P 54 18.80 0.0
S.D. = 0.9 on 14 of 15 obs.

? APR 16, 1991 23h 15m 16.85±9.83s
17.611 N ±83.7km 100.510 W ±25.1km
DEPTH = 10.0km (geophysicist)
GUERRERO, MEXICO (59)

III 1.25 52 eP 15 41.01 0.8
iS 16 05.09
CRX 1.95 24 (P) 15 50.00 -0.6
(S) 16 28.00
MRX 2.18 343 iP 15 54.00 0.3
(S) 16 21.78
PPM 2.30 51 iP 15 55.58 -0.3
(S) 16 27.00
IIA 2.33 49 (P) 15 55.63 -0.2
IIT 2.52 56 (P) 16 07.22 8.5X
IISM 3.28 65 (P) 16 16.10 6.8X
S.D. = 0.8 on 5 of 7 obs.

* APR 17, 1991 00h 54m 12.67±2.62s
44.280 N ± 6.6km 114.241 W ±22.4km
DEPTH = 5.0km (geophysicist)
WESTERN IDAHO (33)
ML 3.2 (BUT).

HPI 1.00 124 iP 54 32.20 -0.1
eS 54 46.40
MCMT 1.14 61 ePc 54 34.40 -0.2
GJN 1.14 99 iP 54 34.50 -0.1
CBTI 1.31 132 iP 54 37.30 -0.2
eS 54 54.00
LTMT 1.55 80 ePnd 54 41.90 0.7
BGMT 1.83 58 ePn 54 44.90 -0.4
HBMT 1.90 37 ePnc 54 46.40 0.0
TMI 1.94 119 iP 54 47.20 0.3
eS 55 13.00
LRM 2.00 39 ePn 54 47.60 -0.1
BUT 2.10 34 ePg 54 51.90 2.8X
eSn 55 15.90

iSg 55 19.90
SXM 2.84 48 ePn 54 59.90 0.1
NEW 4.46 334 e(P) 55 36.30 13.8X
S.D. = 0.4 on 10 of 12 obs.

* APR 17, 1991 01h 16m 10 11±0.77s
6.889 N ± 8.4km 72.999 W ±12.9km
DEPTH = 156.1 ± 7.7 km
4.7mb (7 obs.)
NORTHERN COLOMBIA (99)

BMG 0.20 337 eP 16 33.60 0.9
FUO 1.59 208 eP 16 40.00 -1.8
BOG 2.49 205 iPc 16 53.50 1.3
iS 17 24.50
UPA 6.80 288 iPc 17 46.40 -2.2
0.9s 77.31nm 5.1mb
S 19 00.20
PSO 7.12 218 eP 17 54.00 0.8
YHJ 11.45 343 eP 18 54.17 4.0X
STH 11.73 342 eP 18 57.23 3.5X
ZOB0 23.51 168 P 21 08.00 0.2
LPB 23.77 168 P 21 11.00 0.9
SIV 25.62 153 P 21 26.30 -0.6
i 22 01.60
ALO 41.54 317 e(P) 23 47.00 3.0X
GOL 43.72 323 (P) 24 03.00 1.3
SCH 48.05 5 ePc 24 36.60 1.3
0.5s 29.00nm 5.2mb
FFC 53.06 339 iPc 25 13.10 0.0
0.4s 5.00nm 4.7mb
FRB 56.84 2 ePc 25 40.20 0.0
YKA 63.24 340 eP 26 23.50 -0.2
0.6s 7.10nm 4.8mb
LIC 67.48 86 P 26 50.90 -0.8
0.6s 6.50nm 4.6mb
KIC 67.75 86 P 26 52.72 -0.7
0.6s 6.50nm 4.6mb
INK 73.01 340 eP 27 25.00 0.9
DAG 75.54 11 iPc 27 39.20 0.7
0.5s 9.15nm 4.8mb
GKN 139.13 31 PKP 35 21.70 0.8
KKK 139.63 30 PKP 35 19.20 -2.7
GUN 139.83 30 PKP 35 22.00 -0.4
GBA 144.28 55 PKPd 35 28.40 -1.6
0.7s 2.40nm
OIS 145.63 243 ePKP 35 32.00 -0.2
i 36 13.90
WB2 150.46 241 ePKP 35 40.80 1.0
0.5s 6.30nm
WRA 150.47 241 PKP 35 41.00 1.2
0.8s 5.60nm
S.D. = 1.2 on 24 of 27 obs.

? APR 17, 1991 01h 19m 46.22±1.06s
36.980 N ±10.8km 29.351 E ± 7.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.4 (ISK).

ELL 0.50 117 iPg 19 56.40 -0.1
eSg 20 09.90
YER 0.87 281 iPn 20 03.00 0.0
BCK 1.10 64 iPn 20 07.00 0.1
KHL 1.35 6 ePn 20 11.00 -0.1
S.D. = 0.1 on 4 of 4 obs.

* APR 17, 1991 01h 42m 40.80s
59.977 N 152.796 W
DEPTH = 93.5km
SOUTHERN ALASKA (2)
<AEIC>.

RED 0.44 2 iPc 42 55.18 -0.6
eS 43 06.45
RSO 0.49 2 iPc 42 55.70 -0.6
RS2 0.49 2 iPc 42 55.72 -0.6
RDW 0.51 359 iPc 42 55.78 -0.6
iS 43 07.30
REF 0.52 5 iPc 42 55.88 -0.6
S 43 07.21
RDN 0.54 2 iPc 42 56.08 -0.5
eS 43 07.80
NCT 0.59 354 iPd 42 56.29 -0.7
eS 43 07.91
DFR 0.62 5 iPd 42 56.57 -0.7
eS 43 08.65

RDT 0.63 18 iPc 42 56.49 -0.8
eS 43 08.97
HOM 0.66 118 iPc 42 57.20 -0.3
eS 43 10.05
AUE 0.69 205 ePd 42 56.86 -0.8
AUH 0.70 208 iPd 42 57.21 -0.7
AUI 0.72 207 ePd 42 57.16 -0.9
eS 43 09.63
PDB 0.73 256 iPd 42 57.32 -0.8
iS 43 10.26
NNL 0.76 84 iPc 42 58.63 0.2
XLV 0.76 133 iPc 42 57.48 -0.9
eS 43 11.29
CNPM 0.91 119 iPc 42 59.28 -0.8
eS 43 14.06
BRLK 0.99 102 ePc 42 59.84 -1.1
eS 43 15.55
NKA 1.09 45 ePc 43 03.09 1.0
MCNL 1.12 225 iPd 43 01.17 -1.2
eS 43 16.83
CDD 1.14 203 ePc 43 01.09 -1.6
CKL 1.24 10 iPd 43 03.26 -0.8
SPU 1.26 17 iPd 43 03.28 -0.9
eS 43 20.73
BGL 1.31 9 iPd 43 04.20 -0.6
CRP 1.33 13 iPd 43 04.50 -0.7
eS 43 23.68
SYI 1.39 171 ePd 43 04.64 -1.0
eS 43 22.28
SLKM 1.39 66 eP 43 04.74 -1.0
eS 43 23.39
NCG 1.47 12 iPd 43 06.03 -0.8
SEW 1.68 84 eP 43 08.13 -1.3
SVW 1.80 310 iPd 43 09.90 -1.1
SUA 1.80 33 iPd 43 10.41 -0.7
PMS 2.04 50 ePd 43 13.29 -0.9
SKT 2.10 17 iPd 43 13.81 -1.2
eS 43 41.50
PWA 2.21 39 ePd 43 15.43 -0.9
PLRM 2.42 46 ePd 43 17.15 -2.1
PMR 2.42 46 ePd 43 17.70 -1.6
LTI 2.48 86 ePc 43 17.88 -2.3
KNIM 2.56 79 ePc 43 18.26 -2.9
KNK 2.58 54 ePd 43 19.19 -2.2
MTU 2.59 88 eP 43 19.49 -2.1
GHO 2.61 45 ePd 43 19.99 -2.0
CUT 2.73 26 eP 43 22.19 -1.2
GLI 2.97 70 eP 43 23.64 -3.1
SCM 3.26 53 ePd 43 28.41 -2.4
TTA 3.34 334 eP 43 30.40 -1.6
HUR 3.37 25 eP 43 31.61 -0.7
VLZ 3.40 67 eP 43 30.83 -1.8
TRF 3.69 18 eP 43 35.30 -1.5
KLU 3.70 63 iPd 43 34.00 -2.9
TOA 3.86 54 eP 43 37.50 -1.7
RND 3.92 27 eP 43 37.75 -2.2
TZL 4.14 57 eP 43 39.40 -3.6
MCK 4.19 24 eP 43 42.05 -1.6
SDG 4.34 51 eP 43 43.24 -2.4
BWN 4.49 19 eP 43 46.03 -1.7
PAX 4.62 46 eP 43 47.62 -2.0
GLB 4.65 68 eP 43 46.73 -3.3
CROM 4.86 77 eP 43 50.90 -2.1
NEA 4.93 19 eP 43 51.11 -2.8
WRH 5.02 24 eP 43 52.26 -2.8
DDM 5.04 38 eP 43 54.25 -1.1
HDA 5.22 29 ePc 43 55.34 -2.5
CCB 5.23 24 ePd 43 55.17 -2.8
BALM 5.27 74 eP 43 56.29 -2.5
RDS 5.33 22 eP 43 56.68 -2.7
MDM 5.43 21 ePd 43 57.98 -2.8
FBA 5.46 23 ePc 43 59.00 -2.2
GLM 5.62 24 ePd 44 00.42 -3.0
IMA 6.13 357 iPc 44 09.20 -1.4
PNL 6.76 87 eP 44 16.21 -3.0
70 obs. associated

* APR 17, 1991 03h 57m 44.39±0.84s
23.620 N ± 8.9km 121.405 E ±15.9km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWF1 0.28 200 iPc 57 50.50 0.1
eS 57 54.60
TWD 0.49 21 iPc 57 53.80 -0.5
eS 58 01.30
TWG 0.85 201 iPc 58 00.60 -0.2

TWK	0.91	248	iPc	58	01.90	0.0
			eS	58	14.40	
TWC	1.07	22	eP	58	05.00	0.6
SSE	7.45	359	e(P)	59	28.00	-7.7X
			Lg	01	33.50	
S.D.	= 0.6		on	5 of	6 obs.	

* APR 17, 1991 04h 40m 07.08± 0.93s
36.351 N ±13.6km 26.768 E ± 6.9km
DEPTH = 159.6 ± 18.4 km
DODECANESE ISLANDS (369)
MD 3.5 (ATH).

NPS	1.44	221	iPnd	40	37.20	0.1
			eSn	40	57.50	
YER	1.45	57	iPn	40	36.50	-0.7
ELL	2.56	80	iPn	40	50.90	0.9
VLI	3.11	278	ePn	40	56.50	-0.2
			eSb	41	38.50	
VLS	5.25	292	ePn	41	25.00	0.2
DSI	8.60	121	eP	42	09.00	-0.4
RMN	8.78	129	eP	42	12.00	0.0
			eS	43	46.00	
S.D.	= 0.7	on	7 of	7 obs.		

APR 17, 1991 05h 01m 09.53± 0.59s
42.872 N ± 6.0km 18.719 E ± 4.4km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.5 (TTG).

BRY	0.13	283	iPgd	01	13.32	0.5
			iSg	01	15.87	
NKY	0.21	106	iPgc	01	15.32	1.1
			iSg	01	19.75	
HCY	0.45	201	iPgc	01	18.75	0.0
			iSg	01	26.59	
BDV	0.59	172	iPgc	01	12.54	-9.0X
			iSg	01	31.07	
TTG	0.60	138	iPgc	01	20.89	-0.7
			iSg	01	31.07	
PLE	0.67	47	iPgc	01	22.79	-0.2
			iSg	01	33.49	
IVA	0.87	90	iPgd	01	25.89	-0.4
			iSg	01	39.99	
PVY	0.97	106	iPgc	01	27.90	-0.1
			iSg	01	43.37	
ULC	0.99	156	iPgd	01	28.44	0.1
			iSg	01	44.17	
HVAR	1.69	281	iPn	01	38.90	-0.4
			iSn	02	01.90	

S.D. = 0.6 on 9 of 10 obs.

* APR 17, 1991 05h 26m 48.16 \pm 2.30s
43.428 N \pm 15.5km 2.272 W \pm 23.4km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 3.0 (MDD).

ECR1	0.84	192	eP	27	04.80	0.4
			eS	27	15.50	
EPF	1.95	101	Pn	27	20.80	-0.9
			Sn	27	41.00	
ETOR	2.61	176	eP	27	30.00	-1.2
EROQ	3.28	142	eP	27	42.00	1.4
			eS	28	17.00	
RJF	3.30	54	Pn	27	41.60	0.7
			Sn	28	19.00	
CAF	3.46	63	Pn	27	42.80	-0.4
			Sn	28	20.40	
S.D.	= 1.3	on	6 of	6 obs.		

APR 17, 1991 05h 32m 10.62 \pm 0.21s
60.698 N \pm 5.0km 166.939 E \pm 3.0km
DEPTH = 19.3km (3 depth phases)
5.3mb (66 obs.) 4.5MsZ (10 obs.)
EASTERN SIBERIA (671)

ADK	12.64	127	e(P)	35	10.70	-1.3
ANM	13.25	61	eP	35	20.40	0.4
TTA	17.48	67	eP	36	15.60	0.9
	2.2s	271.70nm				5.0mb
YAK	17.74	291	eP	36	17.00	-0.7
			ePP	36	29.00	
			ePPP	36	37.00	
			eS	39	38.00	
			eSS	39	59.00	

			pPcP	41	18.00	
			eScS	48	27.00	
BRW	17.83	39	eP	36	21.50	2.7
SVW	18.06	72	eP	36	23.80	2.1
IMA	18.19	56	ePc	36	24.60	1.1
	1.2s		44.20nm			4.5mb
PDB	19.13	76	P	36	34.10	-0.6
FBA	20.75	59	ePc	36	52.30	0.1
	1.1s		58.60nm			4.9mb
PMR	20.92	68	eP	36	56.20	2.2
	1.2s		45.20nm			4.7mb
TOA	22.11	66	ePc	37	06.90	0.8
KLU	22.42	67	P	37	08.80	-0.3
INK	25.72	48	ePc	37	40.40	-0.3
	0.8s		49.00nm			5.2mb
MDJ	27.29	251	eP	37	54.20	-1.2
	N 16s		2.40um			
	E 16s		2.40um			
SIT	29.23	71	eP	38	13.90	1.2
NIIJ	29.37	230	P	38	14.70	0.5
CN2	29.85	255	P	38	18.00	-0.5
	1.0s		20.00nm			4.9mb
Z	14s		3.60um			5.2mszx
N	14s		1.10um			
E	14s		0.80um			

MAT	30.29	230	iPc	38	22.70	0.3
	1.2s	79.69nm			5.4mb	
Z	20s	0.71um			4.3MsZ	
		eS	43	21.00		
MTMJ	30.40	231	P	38	24.70	1.2
CHJJ	30.43	229	P	38	23.90	0.2
TSRJ	32.02	232	eP	38	38.00	0.4
SNY	32.25	254	Pc	38	39.60	0.1
Z	18s	1.30um			4.7MsZ	
N	14s	1.10um				
E	12s	1.00um				

IRK	34.33	285	eP	38	58.70	1.2
YKA	35.23	52	eP	39	04.00	-1.1
	0.8s		12.00nm			4.9mb
BJI	37.18	260	P	39	22.00	0.3
	1.2s		68.00nm			5.3mb
Z	11s		0.99um			4.9Mszx
N	12s		0.70um			
E	12s		0.72um			

HMC	38.80	265	P	39	36.80	1.2
Z	12s					
N	10s					
BTO	39.75	266	S	45	30.00	
TIY	40.81	261	eP	39	44.50	1.0
			eP	39	52.80	0.7

	2	14s	1.54um	4.9MsZ
	N	12s	0.90um	
PNT		41.40	72 eP	39 58.00 1.2
		0.8s	25.00nm	5.0mb
EDM		41.54	63 ePc	39 58.00 0.1
SSE		42.11	246 Pc	40 03.50 0.8
		1.1s	20.00nm	4.8mb
Z		20s	0.90um	4.6MsZ
N		14s	1.10um	
E		14s	0.40um	

NJ2	42.37	250	Pd	40	05.50	0.7
Z	20s		0.70um			4.5MsZ
N	15s		0.80um			
E	16s		2.30um			

DAG	42.74	2 eP	40 07.00	-0.3
	0.9s	24.37nm		4.9mb
NEW	43.32	71 P	40 13.00	0.5
	1.0s	21.25nm		4.9mb

FFC	43.27	35	1FC	40	27.00	-0.3
	1.3s		76.00nm			5.5mb
XAN	45.46	261	eP	40	29.20	-0.7
GTA	45.68	274	iPd	40	32.40	0.7
	1.0s		30.00nm			5.2mb
Z	23s		1.40um			4.8Mszx
N	11s		1.20um			

			PP	40	37.00	
			SS	50	30.00	
WHN	45.73	253	eP	40	33.70	1.8
Z	16s					4.6MsZX
N	16s					
E	14s					
			eS	47	19.00	

LZH	46.30	268	iPd	40	37.50	0.8
	2.0s	100.00nm				5.5mb
E	15s	1.45um				
KEV	46.75	342	eP	40	43.00	3.4X
	0.6s	13.00nm				5.1mb
MIN	47.08	82	ePc	40	42.50	-0.2
GDH	47.15	18	iPc	40	42.50	-0.2
	0.8s	22.39nm				5.3mb
LRM	47.27	70	eP	40	43.70	-0.7
ORV	47.74	82	eP	40	47.30	-0.5
		e	42	16.70	460kmX	
WMQ	48.15	287	P	40	51.50	0.4
	2.0s	30.00nm				5.0mb
Z	16s	0.80um				4.8MsZX
		PP	40	57.70		
SOD	48.98	341	eP	40	59.00	2.0
FRB	49.02	29	eP	40	56.00	-1.2
CMB	49.47	83	eP	41	04.80	3.6X
		e	42	23.60	389kmX	
PRS	50.33	85	e(P)	41	07.90	0.1
CD2	50.52	264	eP	41	09.00	-0.3
	1.0s	20.00nm				5.0mb
Z	15s	0.62um				4.7MsZX
E	12s	1.22um				
		eS	48	21.50		

FRI	50.62	83	eP	41	09.30	-0.6
			e	42	27.60	384kmx
BW06	50.94	70	ePc	41	12.50	-0.1
			pP	41	17.30	16km
TNP	50.97	80	P	41	13.40	0.5
	0.8s		4.66nm			4.5mb
RSSD	52.41	65	P	41	22.80	-0.9
	1.1s		28.11nm			5.1mb
GVA	52.81	258	P	41	26.80	0.1
	15s		1.20um			
N	15s		0.80um			

MSU	53.06	76 P	41	28.70	0.1
KAF	53.87	338 iP	41	32.50	-1.4
NUR	55.67	338 iP	41	45.00	-2.0
	0.9s	32.10nm			5.4mb
KMI	55.83	261 Pd	41	48.50	-0.4
	1.2s	40.00nm			5.3mb
NB2	57.16	346 P	41	56.60	-1.3
	0.9s	43.60nm			5.5mb

U	57.44	342	iP	41	58.30	-1.5
Q	57.66	250	eP	42	07.00	5.3X
N	16s		0.70um			
E	16s		1.30um			
H	57.73	345	eP	41	59.30	-2.5
F	0.7s		14.80nm			5.1mb

OBN	58.03	329	iP	42	05.10	1.2
	1.9s	150.00nm				5.7mb
Z	16s	2.60um				5.4Ms2X
N	16s	2.40um				

ANMO	58.64	74.1	42	08.10	0.0
		pP	42	14.00	19km
ALQ	58.64	74	eP	42	08.10
	1.0s	10.00nm			-0.7
					4.9mb

GUN	61.77	277 P	42	29.20	-1.2
KKN	62.16	278 P	42	31.40	-1.5
PKI	62.28	277 P	42	32.80	-1.0
GKN	62.30	278 P	42	32.80	-0.9
	1.0s	52.00nm		5.6mb	

DMN	62.40	270 F	42	33.70	-0.0
GAC	62.52	44 eP	42	34.00	-0.7
	1.0s	19.00nm			5.2mb
TUL	62.75	65 iPc	42	34.80	-1.6
	1.2s	28.30nm			5.3mb

	2.5	6.35	10.0	12.5
CHG	63.02 1.0s	260 30.0nm	LR iPc	07 05.40 42 37.90 -0.5 5.4mb
FVM	63.35	60	Pc	42 38.40 -1.9
EKA	64.05 1.2s	354 62.10nm	Pc	42 44.60 -0.1 5.6mb

ELC	64.43	339	iP	42	43.10	1.3
NDI	65.30	285	iPd	42	52.20	-1.0
KSP	66.33	340	eP	42	58.80	-0.6
			i	43	01.10	7 kmX
CLL	66.40	342	iP	43	01.40	1.6
	1.5s	48.00nm				5.4mb
BRG	66.68	342	iPc	43	03.20	1.6

17d 05h

SPC	1.4s	24.00nm	5.2mb	EPLA	79.43	355	eP	44	17.00	0.4	23.655 N ± 6.8km	121.364 E ± 10.1km
MOX	67.21	337 eP	43 07.30	2.0	TOL	79.50	353	eP	44	18.50	1.5	DEPTH = 10.0km (geophysicist)
	67.25	343 eP	43 05.00	-0.3	ECHE	79.58	351	eP	44	19.00	1.6	4.1mb (2 obs.)
	1.3s	46.00nm	5.5mb		EVIA	80.64	352	eP	44	24.50	1.3	TAIWAN (244)
		e	43 07.20	7kmX	KOD	80.90	275	eP	44	25.30	0.2	ML 4.3 (BJI).
PRU	67.45	341 eP	43 06.50	0.0	EBAN	81.20	353	eP	44	27.00	1.0	TWF1
		i	43 08.80	7kmX	EHUE	81.46	352	eP	44	29.00	1.5	0.31 192 iPc 37 09.50 0.0
NAV	67.86	53 P	43 07.80	-1.5	EHOR	81.62	354	eP	44	29.00	0.8	eS 37 13.30
MEM	67.99	347 iPd	43 09.88	0.0	ECOG	82.07	352	eP	44	31.50	0.8	TWD
GRF	68.23	343 ePd	43 11.90	0.4	AFC	82.09	352	eP	44	31.80	1.0	0.47 27 iPc 37 12.60 -0.1
	1.5s	77.00nm	5.6mb		ASPA	88.25	210	eP	44	54.40	-6.9X	eS 37 20.10
Z	20s	0.20um	4.3MsZ			0.5s	3.50nm				4.9mb	TWG
		ed	43 14.00	7kmX			ic	45	01.80	23km		0.89 245 iPc 37 20.80 0.5
SNF	68.27	348 P	43 11.90	0.3	ZOBO	120.86	67 PKP		51	03.00	-0.5	eS 37 33.60
KHC	68.43	342 P	43 11.50	-1.2		Z	20s	0.15um			4.6MsZ	TWC
DOU	68.65	348 Pc	43 16.00	2.0			LR	33	38.00			1.05 25 eP 37 23.80 0.9
	0.7s	21.10nm	5.4mb		LPB	121.10	67 PKP		51	04.00	0.3	eS 37 39.00
ZST	68.75	339 eP	43 14.40	-0.2	SIV	123.70	59 PKP		51	08.00	-0.3	OZH
QUE	68.80	294 eP	43 15.10	-0.4	PDCR	128.26	33 (PKP)		51	17.00	0.0	2.84 297 Pnc 37 48.90 -0.4
SRO	68.90	338 iP	43 18.20	2.7	MAW	148.21	225 ePKP		51	56.00	4.5X	iSn 38 23.00
CMP	69.94	332 iPd	43 26.00	4.0X		1.0s	20.00nm					S 38 52.00 -1.7
CDF	70.01	346 eP	43 21.90	-0.5		S.D. = 1.0	on 139 of 145 obs.					S 40 24.00
	1.1s	31.75nm	5.4mb									SSE
FLN	70.42	351 eP	43 24.20	-0.6								Z
	1.1s	58.60nm	5.6mb									12s
Z	19s	0.28um	4.5MsZ									0.40um
FEL	70.44	345 eP	43 24.46	-0.7								S
KBA	70.46	341 iPc	43 26.40	1.0								40 15.50
	1.5s	58.40nm	5.5mb									NJ2
		i	43 28.40	6kmX								8.65 346 eP 39 09.00 -2.3
		i	43 42.40									E
HAU	70.52	346 eP	43 24.90	-0.6								12s
	1.0s	26.00nm	5.3mb									0.60um
Z	21s	0.30um	4.5MsZ									GYA
LDF	70.56	351 eP	43 25.00	-0.7								13.61 285 P 40 20.00 1.2
	1.0s	38.00nm	5.5mb									S
BSF	70.64	346 eP	43 25.40	-0.9								42 44.00
	1.0s	24.00nm	5.3mb									TIY
SOTA	70.65	343 iPc	43 26.20	-0.2								15.97 333 eP 40 55.20 5.8X
	1.0s	21.70nm	5.2mb									E
		i	43 28.80	8kmX								14s
GRR	70.82	351 eP	43 26.80	-0.5								0.46um
	1.0s	50.00nm	5.6mb									BJI
LPF	71.19	352 eP	43 29.20	-0.3								16.91 346 eP 41 06.50 5.1X
	1.0s	34.00nm	5.4mb									HHC
LOR	71.52	348 eP	43 30.80	-0.7								19.02 337 eP 41 31.20 3.6X
	1.0s	53.00nm	5.6mb									CHG
Z	22s	0.20um	4.3MsZ									21.44 261 eP 41 56.50 2.8X
SSF	71.76	348 eP	43 32.50	-0.4								GT
	1.3s	45.15nm	5.4mb									24.08 316 eP 42 22.30 2.6
LBF	71.79	348 eP	43 32.50	-0.7								1.4s
	1.2s	32.75nm	5.3mb									10.00nm
AVF	72.04	348 eP	43 34.30	-0.3								4.2mb
	1.0s	45.00nm	5.5mb									YKA
SMF	72.14	348 eP	43 34.50	-0.7								83.39 23 eP 49 30.90 -0.7
	1.1s	26.85nm	5.2mb									0.9s
BGF	72.32	349 eP	43 35.80	-0.5								1.10nm
	1.2s	37.20nm	5.3mb									4.1mb
TCF	72.65	349 eP	43 37.70	-0.6								S.D. = 1.4 on 12 of 16 obs.
	1.0s	26.00nm	5.2mb									
MAF	72.68	349 eP	43 38.30	-0.2								
	1.1s	37.85nm	5.4mb									
LSF	72.75	349 eP	43 38.40	-0.4								
	1.2s	65.45nm	5.6mb									
LPL	72.92	346 eP	43 40.30	0.2								
	1.1s	26.85nm	5.2mb									
LPG	72.94	346 eP	43 40.50	0.2								
	1.6s	111.95nm	5.7mb									
BBTK	73.05	325 eP	43 42.00	1.2								
SKO	73.87	334 eP	43 45.50	0.1								
CAF	74.01	349 eP	43 46.50	0.3								
	1.3s	65.00nm	5.5mb									
LFF	74.12	350 eP	43 46.90	0.1								
	1.2s	71.40nm	5.6mb									
HYB	74.20	277 iPd	43 47.20	-0.5								
	1.0s	38.00nm	5.4mb									
LPO	74.34	349 eP	43 48.20	0.1								
	1.2s	56.55nm	5.5mb									
SBF	74.46	345 eP	43 48.50	-0.4								
	1.0s	38.00nm	5.4mb									
OHR	74.84	334 eP	43 49.00	-2.1								
EPF	76.05	350 eP	43 57.70	-0.3								
	1.4s	45.75nm	5.3mb									
GBA	78.02	276 Pd	44 08.50	-0.6								
	0.9s	14.00nm	5.0mb									
EROO	78.24	350 eP	44 10.90	0.9								
ETOR	78.44	351 eP	44 12.00	0.7								

0.5s 22.00nm 5.4mb
 DZM 53.86 130 iPc 23 33.90 0.4
 INK 82.68 22 eP 26 32.00 0.2
 CFR 85.39 315 iPd 26 55.00 9.0X
 S.D. = 1.0 on 26 of 32 obs.

% APR 17, 1991 09h 23m 52.97±0.88s
 35.188 N ± 9.8km 110.969 E ± 9.5km
 DEPTH = 10.0km (geophysicist)
 EASTERN CHINA (664)
 ML 4.0 (BJI).

XAN 2.04 236 iPnd 24 28.50 0.7
 E 11s 0.70um
 Pg 24 32.00
 Sn 24 54.00
 Sg 25 00.00
 TIY 2.78 25 ePg 24 42.30 3.9X
 Sg 25 15.30
 TIA 5.11 77 ePg 25 24.10 12.7X
 Sg 26 26.50
 WHN 5.43 148 ePn 25 15.50 -0.5
 Pg 25 35.50
 Sn 26 17.50
 Sg 26 44.00
 BTO 5.45 352 ePn 25 15.00 -0.5
 ePg 25 26.40
 Sg 26 41.20
 HMC 5.67 5 Pg 25 34.60 15.2X
 Sg 26 45.40
 LZH 5.87 281 ePn 25 24.00 1.7
 Pg 25 42.00
 Sn 26 30.00
 Sg 26 56.50
 BJI 6.37 39 Pg 25 45.00 15.9X
 Sg 27 06.00
 NJ2 7.28 113 ePn 25 43.00 1.1
 N 11s 0.30um
 eSn 27 10.00
 GYA 9.45 204 Pc 26 11.00 -1.3
 GTA 9.83 299 eP 26 16.40 -1.2
 S.D. = 1.4 on 7 of 11 obs.

APR 17, 1991 09h 26m 02.93±0.22s
 60.841 N ± 5.8km 166.832 E ± 3.3km
 DEPTH = 33.0km (normol)
 5.1mb (52 obs.) 4.5MsZ (7 obs.)
 EASTERN SIBERIA (671)

ADK 12.77 127 eP 29 02.40 -2.3
 ANM 13.23 62 eP 29 12.00 1.3
 ITA 17.48 67 e(P) 30 03.50 -1.9
 YAK 17.64 290 eP 30 07.70 0.4
 ePP 30 21.00
 ePPP 30 30.00
 eS 33 27.00
 eSS 33 47.00
 BRW 17.75 39 eP 30 12.00 3.3X
 SVW 18.06 73 eP 30 14.70 2.1
 IMA 18.16 56 ePc 30 15.40 1.5
 1.1s 54.90nm 4.6mb
 PDB 19.14 76 eP 30 27.20 1.5
 FBA 20.72 59 ePc 30 42.90 0.3
 1.0s 26.50nm 4.6mb
 PMR 20.92 69 eP 30 45.70 1.1
 TOA 22.10 66 ePc 30 57.40 0.8
 KLU 22.41 68 eP 31 00.00 0.3
 INK 25.66 48 eP 31 30.00 -0.7
 1.0s 61.00nm 5.2mb
 pP 31 49.00 85kmX
 MDJ 27.29 251 eP 31 44.50 -1.4
 Z 15s 1.77um 4.8MsZ
 N 16s 2.90um
 E 16s 3.00um
 NIJJ 29.43 229 P 32 05.00 -0.2
 CN2 29.84 254 Pc 32 08.00 -0.9
 1.6s 100.00nm 5.3mb
 Z 14s 4.70um 5.3MsZ
 N 14s 1.60um
 E 14s 1.20um
 ePP 32 17.00
 eS 37 03.00
 MAT 30.34 230 iPc 32 12.60 -0.8
 1.3s 96.15nm 5.4mb
 Z 20s 0.71um 4.3MsZ
 eS 37 05.00
 CHJJ 30.49 228 P 32 14.20 -0.5

IIDJ 31.39 229 P 32 21.40 -1.3
 SNY 32.24 254 Pd 32 30.60 0.6
 2.2s 33.00nm 4.8mb
 Z 18s 1.50um 4.7MsZ
 N 14s 1.60um
 E 11s 1.00um
 S 37 44.50
 IRK 34.24 284 eP 32 49.60 2.3
 YKA 35.19 52 eP 32 54.50 -0.7
 1.1s 11.90nm 4.7mb
 DL2 35.46 253 eP 33 00.00 2.2
 Z 12s 0.60um 4.6MsZ
 E 12s 0.70um
 eS 38 36.00
 BJI 37.15 259 eP 33 12.50 0.5
 1.2s 59.00nm 5.3mb
 Z 14s 1.41um 4.9MsZ
 N 12s 0.96um
 eS 38 55.00
 eSS 41 28.00
 HHC 38.76 265 eP 33 26.00 0.3
 Z 12s 1.41um 5.0MsZ
 N 10s 0.50um
 E 11s 1.19um
 eS 39 27.00
 BTO 39.71 266 eP 33 34.50 0.9
 N 13s 1.30um
 E 13s 1.70um
 ePP 33 41.00
 eS 39 35.00
 TIY 40.78 261 Pd 33 44.00 1.6
 Z 14s 1.19um 4.9MsZ
 N 12s 1.16um
 GMW 41.17 76 eP 33 46.50 1.1
 PNT 41.41 72 eP 33 48.00 0.7
 0.9s 19.00nm 4.8mb
 EDM 41.52 63 ePc 33 48.50 0.3
 RMW 41.70 75 ePd 33 50.70 0.9
 SSE 42.12 246 P 33 54.00 0.8
 1.0s 12.00nm 4.6mb
 Z 20s 0.92um 4.7MsZ
 N 14s 0.71um
 E 14s 0.44um
 S 40 12.00
 SHW 42.41 77 P 33 57.40 1.7
 DAG 42.59 2 eP 33 58.00 1.4
 0.9s 18.49nm 4.8mb
 NEW 43.32 71 ePd 34 03.00 0.0
 1.2s 236.74nm 5.8mb
 FFC 45.23 55 ePc 34 17.90 -0.3
 1.3s 46.00nm 5.2mb
 GTA 45.62 274 eP 34 22.40 0.7
 1.2s 30.00nm 5.1mb
 Z 34s 2.40um 4.9MsZ
 N 11s 1.10um
 eS 41 05.00
 SS 44 22.00
 WHN 45.72 253 eP 34 22.50 0.2
 Z 14s 0.80um 4.8MsZ
 N 18s 1.50um
 E 16s 1.20um
 LZH 46.26 267 iPd 34 27.80 1.1
 1.5s 68.00nm 5.4mb
 E 15s 2.26um
 KEV 46.60 342 eP 34 34.00 5.2X
 GDH 47.03 18 iPc 34 35.50 3.3X
 1.0s 40.00nm 5.4mb
 LRM 47.27 70 eP 34 35.20 0.4
 WMO 48.06 287 P 34 41.50 0.7
 2.0s 20.00nm 4.8mb
 Z 18s 0.60um 4.6MsZ
 PP 34 47.80
 SOD 48.83 341 eP 34 49.00 2.8
 FRB 48.92 29 eP 34 45.00 -1.9
 CMB 49.50 83 e(P) 34 51.50 -0.4
 CD2 50.49 263 eP 34 58.60 -0.9
 BONR 50.58 81 ePd 35 01.00 0.6
 ePcP 36 18.50
 FRI 50.66 83 e(P) 34 55.00 -5.6X
 BW06 50.94 70 ePd 35 02.70 -0.4
 TNP 51.00 80 ePd 35 03.00 -0.5
 0.9s 3.09nm 4.3mb
 iPcP 36 19.30
 DUG 51.44 75 eP 35 06.90 0.1
 ISA 52.41 83 eP 35 13.00 -0.3
 RSSD 52.40 65 eP 35 13.20 -0.9
 CLC 52.62 82 eP 35 15.00 -0.6

GYA 52.79 258 P 35 17.80 0.8
 N 16s 1.30um
 E 16s 1.30um
 S 42 46.00
 MSU 53.07 76 iPd 35 19.80 0.7
 SB8 53.41 83 eP 35 22.00 0.6
 e 36 29.00
 GSC 53.41 82 eP 35 21.00 -0.5
 e 36 29.00
 KAF 53.72 338 iP 35 22.50 -0.7
 0.5s 5.10nm 4.8mb
 NUR 55.51 338 eP 35 34.00 -2.3
 GLA 56.19 82 eP 35 41.00 -0.7
 NB2 57.01 346 P 35 46.40 -0.8
 1.1s 46.10nm 5.4mb
 SCH 57.12 34 eP 35 47.00 -1.0
 HFS 57.58 344 eP 35 49.20 -1.9
 0.4s 2.50nm 4.6mb
 OBN 57.88 329 eP 35 57.00 3.7X
 1.3s *****nm 8.4mb X
 Z 17s 2.40um 5.4MsZ
 N 16s 1.20um
 E 16s 1.80um
 ALO 58.65 74 eP 35 59.00 -0.2
 1.0s 4.75nm 4.6mb
 GUN 61.70 277 P 36 19.36 -1.0
 KKN 62.09 277 P 36 22.04 -0.8
 PKI 62.21 277 P 36 23.74 0.0
 GKN 62.22 278 P 36 23.52 -0.1
 DMN 62.32 277 P 36 24.42 0.0
 GAC 62.45 44 eP 36 24.00 -0.7
 0.6s 6.00nm 4.9mb
 TUL 62.74 65 ePc 36 25.10 -1.6
 1.2s 18.90nm 5.1mb
 Z 20s 0.40um 4.6MsZ
 LR 00 00.40
 CHG 62.99 260 iPc 36 28.00 -0.6
 1.1s 30.38nm 5.3mb
 KSP 66.18 340 ePc 36 52.00 3.2X
 CLL 66.24 342 iPc 36 52.10 2.9
 1.4s 29.00nm 5.2mb
 BRG 66.53 342 iP 36 54.30 3.3X
 1.0s 10.00nm 4.9mb
 SPC 67.06 337 eP 36 56.70 2.0
 MOX 67.09 343 eP 36 58.00 3.3X
 MEM 67.84 347 Pc 37 03.00 3.7X
 KHC 68.28 341 P 37 03.00 0.9
 ZST 68.59 339 eP 37 01.40 -2.6
 e 37 04.30
 e 37 07.80
 QUE 68.69 294 eP 37 05.20 0.1
 VRI 68.83 331 ePd 37 07.50 2.0
 CVO 69.00 332 ePd 37 10.50 3.9X
 MLR 69.37 332 ePd 37 13.00 4.0X
 CMP 69.78 332 ePc 37 14.00 2.6
 CDF 69.85 346 eP 37 11.10 -0.8
 1.2s 29.75nm 5.2mb
 FLN 70.27 351 eP 37 13.20 -1.1
 1.2s 50.60nm 5.5mb
 KBA 70.31 341 i(P) 37 18.90 4.1X
 i 37 33.50
 HAU 70.36 346 eP 37 14.10 -0.8
 LDF 70.41 351 eP 37 13.90 -1.2
 1.4s 56.65nm 5.4mb
 BSF 70.48 346 eP 37 14.50 -1.2
 1.0s 18.00nm 5.1mb
 GRR 70.67 351 eP 37 16.00 -0.7
 1.2s 65.45nm 5.6mb
 LPF 71.04 351 eP 37 18.50 -0.4
 1.3s 65.00nm 5.5mb
 LOR 71.37 348 eP 37 20.20 -0.8
 1.0s 35.00nm 5.4mb
 Z 19s 0.22um 4.5MsZ
 SSF 71.61 348 eP 37 21.60 -0.8
 1.3s 39.70nm 5.3mb
 LBF 71.63 348 eP 37 21.80 -0.8
 1.0s 15.00nm 5.0mb
 AVF 71.89 348 eP 37 23.40 -0.7
 1.0s 34.00nm 5.3mb
 SMF 71.98 348 eP 37 23.80 -0.9
 1.2s 22.30nm 5.0mb
 MFF 72.39 351 eP 37 26.90 -0.1
 1.2s 26.80nm 5.1mb
 TCF 72.50 349 eP 37 27.20 -0.5
 0.9s 15.55nm 5.0mb
 MAF 72.53 349 eP 37 27.60 -0.3

17d 09h

LSF 1.0s 23.00nm 5.1mb
72.60 349 eP 37 27.90 -0.4
1.2s 44.65nm 5.3mb
LPL 72.77 345 eP 37 29.60 0.0
0.7s 5.50nm 4.7mb
LPG 72.79 345 eP 37 29.90 0.1
1.2s 29.75nm 5.2mb
RJF 73.54 349 eP 37 33.60 -0.2
0.9s 19.65nm 5.1mb
Z 22s 0.22um 4.4msz
CAF 73.86 349 eP 37 35.80 0.1
1.5s 67.90nm 5.4mb
LFF 73.97 350 eP 37 36.30 0.1
1.2s 62.50nm 5.5mb
HYB 74.13 277 iPd 37 37.50 -0.1
1.2s 35.70nm 5.2mb
LPO 74.18 349 eP 37 37.50 0.0
1.2s 41.65nm 5.3mb
IPM 74.38 251 ePd 37 36.50 -2.5
EPF 75.90 350 eP 37 47.00 -0.4
1.1s 14.65nm 4.9mb
GBA 77.95 276 Pc 37 58.20 -0.9
0.8s 8.20nm 4.8mb
TOL 79.35 353 eP 38 07.00 0.5
KOD 80.84 274 eP 38 16.00 0.9
OIS 84.05 206 ePd 38 31.20 0.2
ASPA 88.35 210 iPd 38 52.70 0.6
0.8s 9.10nm 5.1mb
BRS 88.66 192 iPc 38 55.00 1.5
CER 145.39 308 ePKP 45 39.00 0.7
MAW 148.28 225 ePKP 45 47.00 5.2X
SPA 150.68 180 iPKPc 45 49.90 4.2X
1.0s 27.50nm
i 46 12.20

S.D. = 1.1 on 109 of 123 obs.

? APR 17, 1991 11h 46m 24.39 ± 2.42s
17.356 N ± 18.7km 100.186 W ± 14.9km
DEPTH = 10.0km (geophysicist)
GUERRERO, MEXICO (59)

III 1.22 34 iP 46 47.00 -0.3
iS 47 07.00
CRX 2.09 13 (P) 47 05.00 4.7X
(S) 47 32.00
UNM 2.18 26 (P) 47 07.50 6.0X
PPM 2.26 41 eP 47 03.00 0.2
(S) 47 41.00
IIA 2.30 39 (P) 47 18.07 15.2X
(S) 47 55.49
IIT 2.43 47 (P) 47 09.00 3.9X
(S) 47 47.40
MRX 2.52 338 eP 47 06.04 0.0
iS 47 41.00
IISM 3.13 58 eP 47 14.87 0.3
(S) 48 02.97
OXX 3.32 94 (P) 47 17.50 -0.2
(S) 48 05.00
CGX 3.89 307 (P) 47 43.00 17.3X
(S) 48 23.00

S.D. = 0.3 on 5 of 10 obs.

? APR 17, 1991 12h 20m 51.85 ± 2.68s
68.399 N ± 20.4km 32.300 E ± 25.0km
DEPTH = 10.0km (geophysicist)
EUROPEAN USSR (724)
MD 3.6 (BER).

KTK1 3.36 285 eP 21 46.24 0.8
eS 22 23.11
TRO 4.96 291 eP 22 07.30 -0.8
NSS 8.99 254 eP 23 08.41 3.9X
NRA0 11.71 239 Pn 23 41.70 -0.1
Sn 25 54.70
Lg 27 16.40
YKA 47.26 340 eP 29 26.30 0.0
0.7s 0.10nm 3.0mb
S.D. = 1.1 on 4 of 5 obs.

% APR 17, 1991 13h 12m 03.33 ± 0.76s
42.728 N ± 9.4km 19.100 E ± 6.8km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.6 (TTG).

NKY 0.11 318 iPgD 12 06.47 0.1
iSg 12 09.27

TTG 0.32 158 iPgD 12 09.85 -0.1
iSg 12 15.47
BRY 0.44 293 iPgD 12 12.34 -0.1
iSg 12 19.77
IVA 0.60 76 iPgC 12 15.17 -0.4
iSg 12 24.67
PVY 0.66 101 iPgC 12 17.00 0.5
iSg 12 27.06
S.D. = 0.5 on 5 of 5 obs.

& APR 17, 1991 13h 38m 04.71s
59.981 N 152.798 W
DEPTH = 98.0km
SOUTHERN ALASKA (2)
<AEIC>.

RED 0.44 2 iPc 38 19.46 -0.7
eS 38 30.73
RSO 0.48 3 ePc 38 20.04 -0.6
eS 38 31.65
RS2 0.48 2 ePc 38 20.08 -0.6
eS 38 32.07
RDW 0.50 359 ePc 38 20.07 -0.7
eS 38 32.22
REF 0.51 5 ePc 38 20.20 -0.6
eS 38 32.04
RDN 0.53 2 iPc 38 20.40 -0.5
eS 38 32.08
NCT 0.59 354 eP 38 20.62 -0.7
eS 38 32.31
DFR 0.62 5 ePc 38 20.71 -0.8
eS 38 32.97
RDT 0.63 18 ePc 38 20.74 -0.9
eS 38 33.21
HOM 0.67 119 ePc 38 21.47 -0.4
eS 38 34.00
AUE 0.69 205 eP 38 21.24 -0.8
AUH 0.70 208 eP 38 21.63 -0.6
AUI 0.72 207 eP 38 22.15 -0.2
eS 38 33.85
PDB 0.73 255 iPd 38 21.63 -0.8
eS 38 34.35
NNL 0.76 85 iPc 38 22.92 0.2
eS 38 21.77 -1.0
XLV 0.76 134 ePc 38 23.55 -0.8
CNPM 0.91 119 iPc 38 30.07
eS 38 24.51 -0.7
BRLK 0.99 102 eP 38 39.92
eS 38 27.52 1.3
NKA 1.09 45 ePc 38 25.47 -1.1
MCNL 1.12 225 iPd 38 40.99
eS 38 25.55 -1.3
CDD 1.14 203 ePd 38 27.57 -0.6
CKL 1.24 10 iPd 38 45.34
eS 38 27.62 -0.7
SPU 1.26 17 iPd 38 45.05
eS 38 28.45 -0.5
BGL 1.30 9 iPd 38 28.83 -0.5
CRP 1.33 14 iPd 38 29.43 -0.5
SLKM 1.39 67 eP 38 28.94 -0.9
SYI 1.39 171 ePd 38 30.33 -0.6
NCG 1.46 12 ePd 38 32.41 -1.1
SEW 1.68 84 eP 38 34.84 -0.4
SUA 1.80 33 ePd 38 37.55 -0.7
PMS 2.04 50 ePd 38 38.14 -0.9
SKT 2.10 17 ePd 38 39.68 -0.7
PWA 2.20 39 eP 38 42.31 -1.9
LTI 2.48 86 eP 38 42.68 -2.5
KNIM 2.56 80 ePc 38 43.56 -1.9
KNK 2.57 54 ePc 38 44.55 -1.4
GHO 2.61 45 ePc 38 46.83 -0.6
CUT 2.72 26 ePd 38 46.83 -0.6

38 obs. associated
APR 17, 1991 14h 38m 39.81 ± 0.90s
20.235 S ± 6.5km 168.817 E ± 10.3km
DEPTH = 31.5 ± 5.8 km
5.2mb (19 obs.) 4.7msz (3 obs.)
LOYALTY ISLANDS (188)

PVC 2.53 349 iP 39 19.50 -0.1
iS 39 53.50
BKM 2.61 348 iP 39 21.70 1.0
iS 39 56.00
DZM 2.87 230 iPd 39 23.40 -1.1
iS 39 58.00
HNR 13.74 320 P 42 04.00 9.2X
SVO 14.04 320 P 42 03.00 4.3X

COO 18.41 233 eP 42 58.20 3.7X
0.3s 9.00nm 4.4mb
RMO 19.43 248 iPd 43 07.30 0.6
0.6s 20.00nm 4.6mb
PUZ 19.57 157 P 43 07.80 -0.4
NOZ 19.98 158 eP 43 12.20 -0.2
MNG 21.10 166 P 43 23.90 -0.1
0.5s 41.00nm 5.1mb
CTA 21.18 266 iPc 43 29.00 4.0X
0.7s 16.44nm 4.5mb
iS 47 26.00
PGZ 21.29 164 eP 43 23.90 -2.0
0.7s 51.00nm 5.0mb
SNZO 21.60 168 P 43 31.00 2.0
S 47 56.00
THZ 21.74 172 eP 43 33.20 2.7X
LTZ 22.67 173 P 43 42.00 2.3
e 43 53.00
CNB 22.78 225 eP 43 44.00 3.1X
CMS 23.48 237 eP 43 51.00 3.4X
ASPA 32.52 258 iPd 45 09.50 -0.7
0.6s 74.10nm 5.8mb
iS 50 21.60
MBL 45.68 260 iPc 47 01.20 1.4
KLB 46.93 245 eP 47 08.60 -0.9
0.6s 14.00nm 5.1mb
NWA0 47.41 244 eP 47 12.50 -0.8
Z 20s 1.20um 4.9msz
RKG 47.65 242 eP 47 15.80 0.6
MUN 48.25 245 eP 47 19.50 -0.4
MAT 63.45 333 eP 49 06.00 -2.9
0.8s 5.97nm 4.8mb
eS 57 50.00
SPA 69.89 180 iPd 49 48.00 -1.6
1.0s 35.00nm 5.4mb
IPM 70.94 282 ePc 49 56.90 0.2
WHN 72.72 313 eP 50 07.50 0.6
MDJ 73.81 332 eP 50 12.50 -0.4
CN2 75.10 329 P 50 20.00 -0.4
1.0s 30.00nm 5.3mb
Z 20s 0.30um 4.6msz
ePP 50 35.00
eS 00 00.00
BJI 77.46 321 eP 50 34.00 0.2
0.8s 16.00nm 5.1mb
eS 00 24.00
eSKS 00 42.00
TIY 78.29 318 Pd 50 39.40 0.9
XAN 78.49 313 eP 50 38.50 -1.2
CHG 78.70 295 eP 50 42.10 1.0
HHC 80.72 320 eP 50 52.00 0.4
LZH 83.10 312 eP 51 05.00 0.8
2.0s 36.00nm 5.1mb
PP 51 20.00
GTA 87.52 314 eP 51 26.80 0.8
YAK 87.68 343 eP 51 26.00 0.0
GUN 93.32 298 PKP 51 53.40 -0.2
0.8s 12.00nm 5.4mb
PKI 93.59 298 PKP 51 54.62 -0.2
0.8s 15.00nm 5.5mb
KKK 93.77 298 PKP 51 55.66 0.1
0.7s 20.00nm 5.6mb
DMN 93.85 298 PKP 51 55.94 0.0
0.7s 24.00nm 5.7mb
GKN 94.38 298 PKP 51 57.46 -0.8
0.7s 15.00nm 5.5mb
GBA 95.87 282 Pd 52 05.60 0.5
1.0s 4.00nm 4.8mb
INK 97.61 18 eP 52 09.00 -2.8
YKA 101.73 27 ePd diff 52 29.80 -0.7
0.6s 0.40nm 4.2mb
DAG 123.30 2 ePKP 57 31.50 -2.7
KAF 130.83 338 iPKP 57 48.70 -0.4
0.5s 2.10nm
NUR 132.49 337 iPKP 57 52.30 0.0
0.6s 10.40nm
APO 135.99 342 ePKP 57 46.70 -12.3X
0.5s 1.40nm
NB2 136.30 344 PKP 57 47.80 -11.8X
0.8s 2.50nm
PDCR 137.39 137 (PKP) 57 58.00 -5.0X
CAI 143.14 134 ePKP 58 07.70 -5.6X
BRG 143.58 333 iPKP 58 09.20 -3.7X
1.0s 18.00nm
i 58 16.30
CLL 143.64 334 iPKP 58 10.50 -2.5
0.8s 14.00nm

17d 17h

WVLY 2.13 348 eP 43 16.70 0.3
 NA2 2.26 176 eP 43 18.30 0.1
 CVL 2.43 189 eP 43 20.50 -0.2
 LVNJ 2.47 79 eP 43 21.00 -0.1
 S.D. = 0.3 on 6 of 6 obs.

% APR 17, 1991 18h 00m 09.84 ± 0.75s
 43.093 N ± 7.6km 0.493 W ± 6.2km
 DEPTH = 10.0km (geophysicist)
 PYRENEES (378)
 MD 1.4 (STR).

ESCF 0.06 256 Pg 00 12.15 0.0
 DGE 0.08 11 Pg 00 12.30 0.0
 JAU 0.11 121 Pg 00 12.78 0.0
 Sg 00 15.49
 ATE 0.15 268 Pg 00 13.41 0.0
 Sg 00 16.29
 LME 0.20 208 Pg 00 14.34 0.0
 ISSF 0.23 254 Pg 00 14.84 0.0
 S.D. = 0.0 on 6 of 6 obs.

% APR 17, 1991 19h 39m 36.60 ± 0.47s
 40.400 N ± 6.3km 28.915 E ± 3.6km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.8 (ISK).

YLV 0.39 64 iPg 39 44.40 -0.2
 eSg 39 48.90
 IZI 0.43 98 iPg 39 46.10 0.7
 KCT 0.45 251 iPg 39 45.40 -0.4
 iSg 39 52.40
 ISK 0.67 9 iPg 39 50.00 0.0
 iSg 39 59.00
 HRT 0.71 53 iPg 39 50.40 -0.3
 eSg 40 00.90
 BNT 0.76 267 ePg 39 52.30 0.8
 eSg 40 03.80
 EDC 0.80 267 ePg 39 51.50 -0.7
 eSg 39 56.50
 DST 0.82 196 ePg 39 52.40 -0.2
 EYL 0.96 80 iPg 39 54.70 -0.3
 KGT 1.23 273 ePn 40 00.00 0.5
 S.D. = 0.6 on 10 of 10 obs.

? APR 17, 1991 23h 32m 33.21 ± 7.02s
 16.008 N ± 60.4km 97.845 W ± 16.0km
 DEPTH = 33.0km (normal)
 OAXACA, MEXICO (60)

OXX 1.52 45 iP 32 58.39 -0.1
 iS 33 18.30
 III 2.82 327 iP 33 17.50 0.4
 iS 33 50.56
 IISM 3.00 8 iP 33 19.91 0.4
 iS 33 55.35
 IIT 3.03 352 (P) 33 20.80 0.6
 (S) 34 00.40
 PPM 3.13 346 iP 33 21.52 -0.4
 (S) 33 53.05
 IIA 3.22 346 iP 33 21.66 -0.9
 (S) 33 59.60
 CRX 3.81 333 (P) 33 42.23 11.0X
 MRX 4.87 320 (P) 33 52.46 6.5X
 (S) 35 00.79
 S.D. = 0.8 on 6 of 8 obs.

* APR 17, 1991 23h 49m 40.12 ± 2.26s
 17.878 S ± 11.7km 72.479 W ± 23.2km
 DEPTH = 63.9 ± 15.5 km
 4.1mb (1 obs.)
 NEAR COAST OF PERU (115)

ARE 1.70 34 iPd 50 08.00 -0.3
 iS 50 27.00
 LPB 4.40 73 iPc 50 47.00 0.6
 S 51 42.00
 ZOBO 4.46 70 iPc 50 47.00 -0.4
 CCH 6.06 86 P 51 10.00 0.4
 ANT 6.11 162 e(P) 51 10.00 0.1
 SIV 11.08 82 P 52 12.00 -6.3X
 PPD 20.32 105 eP 54 12.50 -1.1
 KIC 71.03 77 (P) 00 54.40 0.7
 YKA 86.69 342 eP 02 24.30 6.6X
 0.7s 1.10nm 4.1mb
 S.D. = 0.9 on 7 of 9 obs.

? APR 18, 1991 01h 46m 35 19 ± 6.06s
 32.212 S ± 52.1km 69.800 W ± 38.0km
 DEPTH = 100.0km (geophysicist)
 MENDOZA PROVINCE, ARGENTINA (139)

RTBS 0.62 28 iPd 46 52.10 0.0
 RTCB 1.12 50 iPd 46 57.50 0.2
 eS 47 16.80
 ZON 1.16 55 eP 46 58.00 0.2
 RTLL 1.43 53 iPc 47 01.00 -0.1
 S 47 23.80
 CFA 1.46 66 iPc 47 01.10 -0.2
 S 47 24.00
 RTRS 2.06 8 iPd 47 08.90 -0.1
 S 47 36.50
 S.D. = 0.2 on 6 of 6 obs.

? APR 18, 1991 02h 34m 51 40 ± 1.03s
 37.024 N ± 10.4km 29.347 E ± 7.5km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.5 (ISK).

ELL 0.53 121 iPg 35 01.90 -0.2
 eSg 35 10.00
 YER 0.86 278 iPn 35 08.10 0.1
 BCK 1.08 66 iPn 35 12.20 0.4
 KHL 1.30 6 iPn 35 15.30 -0.3
 S.D. = 0.5 on 4 of 4 obs.

* APR 18, 1991 03h 50m 02 20 ± 0.63s
 3.919 S ± 10.3km 139.893 E ± 11.8km
 DEPTH = 33.0km (normal)
 4.6mb (2 obs.)
 WEST IRIAN (201)

MNDI 4.36 121 eP 51 07.00 -1.1
 LAT 7.58 111 eP 52 02.28 9.1X
 PMG 9.04 127 eP 52 10.00 -3.5X
 MTN 12.40 224 eP 52 59.30 0.0
 eS 55 16.00
 KNA 16.06 222 eP 53 48.00 0.7
 eS 56 40.00
 OIS 16.54 181 eP 53 51.00 -2.4
 i 53 58.40
 e 56 54.00
 e 58 55.60
 CTA 17.23 159 iPc 54 03.90 1.9
 1.0s 19.00nm 4.2mb
 ASPA 20.47 196 iPc 54 39.90 0.0
 0.7s 53.00nm 5.0mb
 eS 58 35.10
 eScP 01 46.60
 OLP 22.92 170 eP 55 08.00 3.6X
 e 02 07.00
 GUN 60.84 305 P 00 15.00 0.5
 PKI 61.10 304 P 00 14.00 -2.2
 KKN 61.29 305 P 00 17.60 0.3
 DMN 61.37 304 P 00 16.60 -1.3
 GKN 61.90 305 P 00 21.80 0.4
 KOD 63.73 283 eP 00 35.50 1.6
 GBA 64.36 287 Pd 00 37.90 0.3
 KIC 144.70 275 PKP 09 37.10 -1.2
 TIC 144.96 276 PKP 09 38.00 -0.8
 LIC 144.99 275 PKP 09 38.10 -0.7
 LPB 145.67 127 PKP 09 42.00 1.6
 ZOBO 145.80 127 PKP 09 41.00 0.2
 1.1s 12.18nm
 CCH 146.71 130 PKP 09 44.30 2.4
 SIV 151.34 134 PKP 09 54.40 5.6X
 S.D. = 1.4 on 19 of 23 obs.

APR 18, 1991 04h 37m 01 32 ± 0.39s
 46.037 N ± 3.9km 7.765 E ± 3.4km
 DEPTH = 10.0km (geophysicist)
 SWITZERLAND (544)
 MD 2.8 (STR).

MMK 0.14 84 ePc 37 03.90 -0.9
 DIX 0.25 280 ePc 37 06.20 -0.6
 ORO 0.44 160 P 37 11.00 0.7
 eSg 37 17.80
 EMS 0.58 274 ePc 37 12.20 -1.0
 RSL 0.87 247 Pg 37 17.46 -0.7
 Sg 37 30.65
 LPG 0.89 233 Pg 37 18.10 -0.5

LPL 0.89 235 Pg 37 18.00 -0.6
 Sg 37 32.80
 LLS 1.19 45 ePc 37 26.80 3.1X
 BNI 1.25 218 P 37 25.00 0.4
 VDL 1.27 69 ePd 37 24.30 -0.7
 OSS 1.77 68 ePc 37 33.20 0.8
 SLE 1.80 16 ePd 37 34.20 1.5
 FEL 1.85 5 ePn 37 32.52 -0.9
 BSF 1.92 340 Pn 37 33.80 -0.6
 Sg 04 38.00
 HAU 2.20 334 Pn 37 38.20 -0.2
 CDF 2.40 352 Pn 37 40.40 -0.9
 SMF 2.79 284 Pn 37 47.40 0.6
 LOR 2.96 296 Pn 37 50.00 0.8
 Sg 38 39.00
 SSF 3.11 291 Pn 37 52.60 1.3
 AVF 3.14 285 Pn 37 52.40 0.6
 BGF 3.45 280 Pn 37 56.30 0.1
 MAF 3.62 275 Pn 37 58.80 0.2
 GRF 4.33 31 e(Pn) 38 18.70 10.0X
 e 38 36.80
 e 38 51.60
 eSg 39 24.00
 eSg 39 54.60
 DOU 4.58 334 P 38 12.70 0.5
 S.D. = 0.8 on 22 of 24 obs.

APR 18, 1991 04h 37m 36.60 ± 1.11s
 51.652 N ± 6.0km 16.387 E ± 11.3km
 DEPTH = 10.0km (geophysicist)
 POLAND (548)
 ML 3.2 (KBA), 3.1 (VKA).

KSP 0.81 184 iPd 37 52.60 0.2
 0.5s 80.00nm
 iS 38 01.50
 e 08 14.60
 BRG 1.72 244 iPn 38 06.30 -0.4
 iPn 38 08.00
 iSg 38 29.00
 PRU 2.04 216 Pn 38 11.00 -0.3
 0.8s 31.80nm
 Pg 38 12.90
 e 38 16.60
 eSn 38 29.50
 Sg 38 36.50
 Lg 39 16.50
 e 44 25.50
 e 44 36.50
 CLL 2.14 262 iPn 38 13.00 0.1
 ePg 38 15.00
 iSg 38 42.60
 KHC 3.10 217 ePn 38 26.00 -0.5
 ePg 38 32.00
 eSn 39 01.20
 eSg 39 08.20
 HOF 3.15 247 ePn 38 27.10 -0.1
 MOX 3.17 253 ePn 38 28.00 0.6
 iPg 38 36.00
 iSg 39 16.00
 WET 3.37 223 ePn 38 30.50 0.2
 VKA 3.39 181 iPg 38 37.00 6.4X
 i 38 40.20
 eSg 39 20.00
 i 39 26.20
 KBA 4.99 205 iPnd 38 53.60 0.1
 i 39 02.10
 i 39 57.00
 iSg 40 14.30
 i 40 16.60
 NRA0 9.49 345 Pn 39 56.20 -0.1
 Sn 41 41.20
 S.D. = 0.4 on 10 of 11 obs.

APR 18, 1991 04h 41m 07.66 ± 0.84s
 46.119 N ± 8.1km 7.764 E ± 7.7km
 DEPTH = 10.0km (geophysicist)
 SWITZERLAND (544)

MMK 0.16 116 ePc 41 11.40 0.0
 DIX 0.25 261 ePc 41 13.20 0.1
 ORO 0.52 163 P 41 18.00 -0.2
 eSg 41 27.00
 EMS 0.58 265 ePc 41 19.90 0.3
 LLS 1.13 48 ePc 41 34.50 5.5X
 BNI 1.31 216 P 41 34.50 2.5X
 eSg 41 52.00

DOI 1.66 193 P 41 32.00 -5.0X
 SLE 1.72 17 ePc 41 42.20 4.4X
 OSS 1.74 70 ePc 41 45.40 7.1X
 FEL 1.77 5 eP 41 40.15 1.6
 DOU 4.51 333 Pc 42 20.60 3.1X
 MEM 4.64 346 P 42 17.60 -1.8
 S.D. = 1.4 on 6 of 12 obs.

? APR 18, 1991 04h 59m 06.35±1.21s
 41.808 N ±14.1km 12.734 E ±7.6km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN ITALY (390)

RMP 0.02 278 Pc 59 08.40 0.1
 eSg 59 10.90
 AZI 0.55 71 P 59 17.90 0.3
 MNS 0.58 356 P 59 17.90 -0.2
 eSg 59 27.90
 SDI 0.82 97 Pc 59 21.90 -0.3
 eSg 59 34.20
 S.D. = 0.5 on 4 of 4 obs.

? APR 18, 1991 05h 16m 38.75±11.31s
 16.800 N ±33.5km 60.417 W ±89.6km
 DEPTH = 33.0km (normal)
 LEEWARD ISLANDS (92)
 ML 3.2 (FDF)

DEG 0.78 232 eP 16 52.49 -0.9
 S 17 02.20
 SEG 1.12 249 eP 16 58.61 0.5
 S 17 14.60
 DOG 1.38 237 eP 17 02.10 0.1
 BPA 1.40 280 eP 17 02.10 -0.1
 S 17 19.20
 PAG 1.43 238 eP 17 02.70 0.0
 S 17 20.00
 BBL 1.63 219 eP 17 05.91 0.4
 S 17 24.50
 S.D. = 0.7 on 6 of 6 obs.

APR 18, 1991 05h 19m 29.04±0.16s
 2.664 N ±3.8km 128.543 E ±5.2km
 DEPTH = 236.5km (5 depth phases)
 5.5mb (56 obs.)

HALMAHERA (267)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 20S, 35C
 Centroid Location:
 Origin Time 05:19:29.8 0.3
 Lat 2.90N 0.03 Lon 128.24E 0.05
 Dep 227.3 2.3 Half-duration 2.3
 Moment Tensor: Scale 10⁻¹⁷ Nm
 Mrr=0.55 0.07 Mtt=0.06 0.10
 Mff=-0.60 0.12 Mrt=-0.86 0.09
 Mrf=-2.06 0.07 Mtf=1.07 0.08
 Principal Axes:
 T Vol=2.77 Plg=44 Azm=128
 N -0.54 27 8
 P -2.23 34 258
 Best Double Couple: Mo=2.5*10⁻¹⁷
 NP1: Strike=292 Dip=28 Slip=12
 NP2: 191 84 117

DAV 5.30 326 ePc 20 47.00 -1.7
 1.6s 6293.33nm 6.4mb
 TSM 10.57 279 ePd 21 59.70 3.8X
 OCP 13.99 329 eP 22 41.50 2.7
 MTN 15.62 171 iPd 22 58.00 -0.7
 eS 25 43.00
 BAG 15.75 331 eP 22 59.50 -0.9
 eS 25 45.00
 MNDI 17.45 120 eP 23 20.00 0.6
 KNA 18.30 179 iPc 23 28.20 0.2
 eS 26 44.00
 LAT 20.62 117 iPc 23 51.68 0.2
 PMG 22.09 123 iPc 24 04.60 -1.1
 1.3s 461.54nm 5.9mb
 WB2 23.18 166 iPd 24 16.00 -0.3
 0.8s 23.60nm 4.8mb
 iPcP 26 30.90
 iS 28 09.00
 iScP 31 13.90
 i 32 39.70
 i 34 25.30
 e 34 58.40

HKC 24.00 326 eP 24 24.50 0.6
 eS 28 27.00
 QZH 24.14 337 P 24 25.00 -0.2
 1.0s 330.00nm 5.8mb
 eS 28 20.00
 QIZ 24.48 313 eP 24 28.00 -0.4
 0.9s 100.00nm 5.4mb
 N 12s 0.80um
 E 12s 0.70um
 eS 28 31.50
 GZH 25.08 325 eP 24 33.00 -0.8
 0.8s 80.00nm 5.3mb
 eS 28 36.00
 MBL 25.17 199 eP 24 34.50 -0.2
 KGM 25.21 269 ePd 24 36.50 1.4
 QIS 25.50 155 iPc 24 37.20 -0.5
 0.7s 183.00nm 5.8mb
 i 25 11.00 167kmX
 i 28 59.20
 i 30 05.00
 e 33 44.20
 ASPA 26.69 169 iPc 24 48.40 -0.1
 1.0s 258.10nm 5.8mb
 eS 29 04.70
 IPM 27.53 275 ePd 24 56.50 0.4
 1.0s 263.20nm 5.8mb
 CTA 28.52 143 iPc 25 04.40 -0.6
 1.0s 126.00nm 5.5mb
 iS 29 36.00
 SSE 29.12 347 Pd 25 09.50 -0.6
 1.0s 37.00nm 5.0mb
 Z 20s 0.46um 4.1MsZ
 E 12s 0.55um
 PP 26 20.00
 ScP 31 30.00
 MEKA 30.67 198 eP 25 23.50 -0.3
 e 30 07.00
 NST 30.82 297 iPd 25 28.00 2.8
 GYA 31.63 320 Pd 25 33.00 0.7
 2.0s 500.00nm 5.8mb
 PcP 28 19.00
 S 30 25.00
 ScP 31 40.00
 ScS 35 37.00
 BDT 32.42 299 eP 25 39.00 -0.1
 1.0s 154.60nm 5.6mb
 QLP 32.79 153 iPc 25 41.40 -0.8
 0.5s 65.00nm 5.5mb
 i 27 00.00 426kmX
 CHG 33.12 301 iPd 25 45.40 0.3
 0.9s 107.14nm 5.5mb
 eS 30 48.00
 FORR 33.33 181 iPc 25 46.20 -0.5
 0.5s 199.00nm 6.0mb
 KMI 33.41 314 iPd 25 49.00 1.2
 2.0s 290.00nm 5.6mb
 Z 16s 0.90um 4.6MsZ
 COOL 34.10 191 eP 25 53.00 -0.3
 MAT 34.87 14 (P) 25 58.00 -1.8
 0.9s 43.70nm 5.0mb
 eS 31 07.00
 RMO 34.95 147 iPc 25 58.00 -1.7
 0.7s 30.00nm 5.0mb
 ePP 27 24.00
 iPcP 28 28.20
 iScP 31 52.10
 BAL 34.96 198 eP 26 00.50 0.0
 e 26 51.00 249kmX
 e 31 17.50
 TIA 35.01 344 eP 26 00.10 -0.8
 KLB 35.58 196 eP 26 06.00 0.3
 e 31 54.00
 XAN 36.19 332 iPd 26 10.50 -0.4
 S 31 32.00
 MUN 36.39 198 eP 26 12.90 0.4
 CD2 36.57 323 iPd 26 14.30 0.1
 1.0s 200.00nm 5.6mb
 ePP 27 02.60
 iS 31 37.50
 NWA0 36.98 196 eP 26 18.10 0.6
 e 27 08.00 237km
 e 31 50.00
 CMS 37.73 155 iPc 26 24.10 0.3
 e 27 56.00 510kmX
 TIY 37.88 339 iPd 26 25.00 -0.1
 1.0s 120.00nm 5.4mb

Z 14s 0.83um 4.7MsZ
 N 12s 0.32um
 BRS 37.93 144 iPd 26 25.00 -0.5
 i(pP) 26 30.00 17kmX
 i(P) 27 52.00
 i(PcP) 28 38.00
 e(S) 32 02.30
 RKG 38.12 196 eP 26 32.70 5.7X
 ADE 38.63 167 eP 26 32.50 1.3
 1.0s 1160.00nm 6.4mb
 BJI 38.86 345 iPd 26 32.50 -0.5
 1.0s 130.00nm 5.4mb
 PP 27 18.00
 eScP 32 05.50
 eS 32 12.00
 eScS 36 18.00
 SNY 39.24 354 iPd 26 35.80 -0.3
 0.8s 30.00nm 4.9mb
 Z 14s 0.70um 4.6MsZ
 S 32 16.00
 COO 39.86 148 iPc 26 42.00 0.6
 0.7s 38.00nm 5.0mb
 ePP 28 13.10
 LZH 40.34 328 iPd 26 46.20 0.8
 1.6s 480.00nm 5.7mb
 PP 27 30.50
 PP 28 27.00
 ScP 32 11.60
 iS 32 35.00
 SS 33 59.00
 ScS 36 23.00
 MHC 40.99 340 iPd 26 50.80 0.2
 0.8s 130.00nm 5.4mb
 S 32 40.00
 CN2 41.05 357 eP 26 50.00 -0.9
 Z 14s 0.80um 4.7MsZ
 eS 32 40.00
 BTO 41.31 339 eP 26 52.00 -1.2
 BFD 41.72 163 iPc 26 57.40 0.9
 1.0s 228.00nm 5.6mb
 e 28 38.00 565kmX
 MDJ 41.79 1 Pd 26 56.80 -0.1
 1.0s 50.00nm 4.9mb
 S 32 56.00
 CNB 42.52 155 iPc 27 04.60 1.5
 TOO 43.01 160 iPc 27 08.60 1.6
 e 29 00.00 660kmX
 DZM 44.45 126 iPc 27 18.70 0.0
 LSA 44.50 311 iPd 27 19.80 0.3
 4.0s 370.00nm 5.1mb
 PP 28 05.50
 iS 33 36.50
 ScS 36 48.00
 GTA 44.94 328 eP 27 22.60 0.2
 0.8s 90.00nm 5.2mb
 Z 20s 0.50um 4.4MsZ
 E 12s 0.40um
 PP 28 08.10
 PcP 29 00.80
 ScP 32 30.40
 S 33 42.00
 SS 35 04.00
 ScS 36 54.00
 GUN 47.81 306 P 27 45.60 0.3
 0.7s 799.00nm 6.2mb
 PKI 48.06 305 P 27 46.94 -0.3
 KKN 48.25 306 P 27 48.52 0.0
 0.9s 443.00nm 5.9mb
 DMN 48.32 305 P 27 49.22 0.1
 0.9s 571.00nm 6.0mb
 TAU 48.43 162 iPc 27 50.30 0.9
 GKN 48.86 305 P 27 52.96 -0.2
 HYB 51.18 290 iPd 28 10.50 -0.2
 1.0s 370.00nm 5.8mb
 e 29 01.00 230km
 KOD 51.25 281 iPd 28 11.30 -0.3
 1.0s 126.00nm 5.3mb
 GBA 51.64 285 Pd 28 13.20 -0.9
 0.6s 51.50nm 5.2mb
 WMO 54.63 325 iPd 28 35.20 -0.5
 2.0s 200.00nm 5.3mb
 Z 18s 0.30um 4.4MsZ
 N 15s 0.70um
 ScP 33 10.70
 S 35 56.30
 SS 37 21.00
 ScS 37 58.00

NDI	55.21	303	SS	39 37.20		MBH	91.87	300	eP	32 08.00	-4.0X	ToImezzo.						
			iPd	28 38.50	-1.5	KAF	93.37	333	iP	32 16.50	-1.6	FVI	0.11	306	Pd	44 27.10	-0.5	
			eS	36 02.00			0.5s		0.54nm		3.9mb X	KBA	0.63	28	iPgC	44 37.10	-0.6	
POO	55.78	291	iPd	28 41.70	-2.6	NUR	94.50	331	iP	32 22.60	-0.7				iSg	44 45.80		
	0.8s		92.54nm		5.4mb	MLR	96.92	316	eP	32 34.00	-0.8	VOY	0.84	126	iPgC	44 39.40	-2.6	
YAK	59.22	1	iP	29 06.20	-1.1				e	36 19.00					eSg	44 52.30		
			ipP	29 33.00	109kmX				e	42 49.00		SCE	0.97	302	iPgD	44 42.70	-1.6	
			iPcP	30 15.00		DAG	98.55	353	eP	32 40.00	-1.4	CTI	1.00	242	P	44 43.10	-1.6	
			ePP	31 25.00		YKA	99.71	25	eP	32 46.00	-1.0				eSg	45 03.50		
			ePPP	32 33.00			0.9s		2.30nm		4.6mb	TRI	1.01	144	ePg	44 45.20	0.4	
			iS	36 54.00		HFS	99.79	333	eP	32 45.50	-1.9				iSg	44 58.10		
			ePS	37 09.00			1.2s		35.90nm		5.7mb	BHG	1.19	359	iPg	44 47.90	0.0	
			eSS	37 20.00		Z	17s		0.13um		4.5mszX	WATA	1.22	312	iPgC	44 47.10	-1.4	
			eScS	38 31.00					LR	12 43.00					iSg	45 03.30		
MMCZ	59.63	148	P	29 08.70	-1.9	BUL	100.23	250	iPd	32 50.50	0.1	LJU	1.22	113	ePg	44 49.00	0.6	
TLC	59.72	148	P	29 10.60	-0.6		0.8s		7.46nm		5.2mb				eSg	45 05.50		
MHZ	59.74	148	P	29 10.60	-0.8	NB2	100.54	334	Pd	32 49.20	-1.5	CEY	1.32	126	ePg	44 49.90	-0.1	
THZ	59.76	143	Pd	29 11.10	-0.4		0.9s		7.00nm		5.1mb				iSg	45 10.50		
CNZ	59.98	139	P	29 13.80	0.7	TUL	123.58	43	ePKP	38 00.00	-0.2	OGA	1.34	285	ePg	44 49.50	-1.1	
LTZ	59.99	144	Pc	29 12.50	-0.5		1.4s		27.80nm			SQTA	1.36	301	iPgC	44 49.90	-1.0	
NGZ	60.01	139	Pd	29 14.10	0.8	KIC	132.50	281	PKP	38 11.70	-6.2X				iSg	45 06.70		
TAZ	60.11	138	P	29 15.10	1.3	TIC	132.73	281	PKP	38 11.80	-6.6X	MOTA	1.48	304	iPgD	44 51.90	-0.8	
TCW	60.28	142	P	29 13.90	-1.0	LIC	132.81	281	PKP	38 12.00	-6.5X				iSg	45 12.10		
WHH	60.44	138	P	29 16.00	-0.2	LCCM	144.03	151	ePKP	38 37.00	-1.4	RIY	1.57	139	ePn	44 53.30	-0.4	
KIW	60.48	141	P	29 15.10	-1.3	TACH	144.19	152	iPKPc	38 38.00	-0.7				iSn	45 15.20		
KHZ	60.52	143	Pc	29 15.50	-1.1	SAN	144.49	152	ePKP	38 39.00	-0.3	SAL	1.90	242	P	45 02.00	3.5X	
CCW	60.55	142	Pd	29 16.20	-0.6	ROCH	144.72	151	ePKP	38 40.50	0.6	OSS	1.92	276	eP	45 00.80	1.8	
MRW	60.56	141	Pd	29 15.60	-1.2	PEL	144.73	151	iPKPc	38 40.10	0.4	VBY	1.93	121	ePn	44 59.90	0.9	
MNG	60.71	140	Pc	29 16.60	-1.3		0.6s		573.33nm						iSn	45 24.50		
CAW	60.72	141	P	29 16.60	-1.3	UPA	149.72	67	iPKPc	38 53.60	5.5X				iSg	45 27.90		
WDW	60.76	141	Pc	29 16.60	-1.6	LPB	158.60	131	PKP	39 03.00	2.4	PTJ	2.21	105	e(Pn)	45 04.30	1.2	
MOZ	60.77	145	Pc	29 17.90	-0.3	ZOBO	158.75	131	PKP	39 03.10	2.1				eSn	45 37.20		
TTH	61.00	139	P	29 20.10	0.2		1.5s		87.10nm			VDL	2.38	270	ePd	45 07.00	1.3	
MOH	61.01	138	P	29 19.80	-0.1				i	39 40.60		WET	2.62	360	iPnc	45 09.90	1.0	
MTW	61.02	141	P	29 18.40	-1.5	SIV	163.72	145	iPKPc	39 07.00	1.6	KHC	2.64	10	iPn	45 10.20	0.9	
HBZ	61.02	136	Pc	29 19.70	-0.3				i	40 00.80					Pg	45 18.00		
BLW	61.12	141	P	29 19.20	-1.4	S.D. = 1.1 on 133 of 143 obs.									eSn	45 50.50		
PGZ	61.22	140	Pc	29 20.10	-1.1	APR 18, 1991 05h 22m 31.14± 0.94s						LLS	2.72	279	ePd	45 12.00	1.5	
	0.5s		72.00nm		5.6mb	43.235 N ±12.2km 17.652 E ± 5.9km						CRE	2.98	194	P	45 13.30	-0.8	
PUZ	61.22	137	P	29 20.60	-0.8	DEPTH = 5.0km (geophysicist)						SLE	3.26	294	ePc	45 18.20	0.2	
NOZ	61.34	137	Pc	29 21.70	-0.4	YUGOSLAVIA (383)						DIX	3.84	265	ePc	45 28.40	1.9	
QUE	64.24	302	iPd	29 41.00	-0.5	ML 2.8 (TTG).						EMS	4.17	266	ePd	45 32.10	1.0	
	1.0s		1000.00nm		6.5mb X	BRY	0.73	117	iPgD	22 45.15	-0.7	S.D. = 1.3 on 25 of 26 obs.						
			eS	39 13.10		HVAR	0.88	267	iPg	22 48.30	-0.2	APR 18, 1991 06h 48m 38.42± 0.86s						
			eSS	39 31.00		HCY	1.00	141	iPgD	22 50.03	-0.6	37.844 N ± 5.9km 32.058 E ± 8.5km						
SDN	77.05	34	eP	30 57.20	-0.1	NKY	1.07	113	iPgC	22 51.52	-0.4	DEPTH = 10.0km (geophysicist)						
ANM	77.50	24	eP	31 01.10	1.4	PLE	1.28	85	iPgC	22 54.73	-0.6	TURKEY (366)						
SVW	80.85	28	ePc	31 19.70	2.0	BDV	1.29	137	iPgD	22 55.35	-0.1	BCK	1.23	252	iPn	48 59.70	-1.6	
TTA	81.03	27	ePc	31 20.30	1.6	TTG	1.43	124	iPgC	22 57.52	-0.2	ALT	1.95	309	iPn	49 11.80	-0.2	
	1.2s		39.20nm		5.0mb	IVA	1.69	102	iPnc	23 02.02	0.5	ELL	2.03	238	iPn	49 14.40	1.2	
TAB	82.23	308	eP	31 27.00	1.5	ULC	1.73	137	iPnd	23 03.15	1.0	KHL	2.06	284	iPn	49 13.30	-0.2	
IMA	82.62	24	iPc	31 28.70	1.8	PVY	1.82	110	iPnc	23 04.50	1.0	BBTK	2.07	15	iPnc	49 13.00	-0.7	
	1.4s		77.60nm		5.2mb	VBY	2.85	324	e(Pn)	23 25.70	7.6X				ePg	49 16.00		
			epP	32 25.80	237km				eSn	23 55.00		GPA	2.80	331	ePn	49 25.00	1.0	
AFR	82.87	108	eP	31 30.00	1.1	S.D. = 0.7 on 10 of 11 obs.						CSS	3.05	160	eP	49 27.50	-0.1	
	1.3s		95.00nm		5.4mb	? APR 18, 1991 05h 34m 49.94± 1.73s	38.038 N ±10.4km 26.986 E ±17.7km						YER	3.09	258	ePn	49 29.10	1.0
SBA	83.04	172	iPc	31 30.90	2.3	DEPTH = 10.0km (geophysicist)						EYL	3.09	332	ePn	49 29.00	0.7	
PPT	83.07	108	eP	31 31.00	1.1	AEGEAN SEA (365)						YLV	3.43	323	ePn	49 34.00	1.0	
	1.3s		180.00nm		5.6mb	MD 2.9 (ISK).						HRT	3.50	329	ePn	49 33.00	-1.0	
PAE	83.07	108	eP	31 31.00	1.1	IZM	0.42	31	iPg	34 58.20	-0.3	ISK	3.97	325	ePn	49 41.00	0.4	
	1.3s		140.00nm		5.5mb				eSg	35 03.60		KGT	4.52	307	ePn	49 48.00	-0.5	
PPN	83.20	108	eP	31 32.00	1.5	YER	1.37	131	ePn	35 15.00	-0.1	S.D. = 1.0 on 14 of 14 obs.						
	1.3s		140.00nm		5.5mb	EZN	1.86	34	ePn	35 22.00	0.0	APR 18, 1991 06h 56m 24.87± 0.67s						
MAW	83.39	201	iPd	31 32.40	1.8	DST	2.02	39	ePn	35 25.00	0.5	37.209 N ± 6.2km 26.697 E ± 6.1km						
	1.0s		16.00nm		4.7mb	S.D. = 0.6 on 4 of 4 obs.						DEPTH = 10.0km (geophysicist)						
TVO	83.39	108	eP	31 34.00	2.4	NORTHERN ITALY (545)						DODECANESE ISLANDS (369)						
	1.3s		165.00nm		5.6mb	ML 3.0 (KBA). MD 2.8 (TRI). 2.8						MD 4.0 (ATH). 3.9 (ISK).						
PMR	84.01	28	ePc	31 34.40	0.6	(LJU). Felt at Polizzaa ond						IZM	1.27	20	iPn	56 47.80	-0.7	
	1.3s		109.10nm		5.5mb				eSg	35 03.60		YER	1.27	93	iPn	56 48.10	-0.4	
PMD	84.47	105	iP	31 39.90	3.0				ePn	35 25.00	0.5	PRK	2.06	351	ePb	57 04.00	4.1X	
	1.3s		110.00nm		5.5mb	APR 18, 1991 06h 44m 25.21± 0.42s						NPS	2.13	205	ePn	57 01.50	0.5	
TPT	84.73	105	iP	31 41.30	3.1X	46.528 N ± 5.0km 12.913 E ± 4.1km						ATH	2.49	289	ePn	57 09.00	3.0X	
	1.3s		105.00nm		5.5mb	DEPTH = 5.0km (geophysicist)						KHL	2.50	63	iPn	57 05.30	-1.0	
VAH	84.74	105	iP	31 42.00	3.7X	NORTHERN ITALY (545)						ELL	2.61	99	iPn	57 10.40	2.4	
	1.3s		85.00nm		5.4mb	ML 3.0 (KBA). MD 2.8 (TRI). 2.8						EZN	2.63	354	iPn	57 06.90	-1.1	
FBA	84.91	25	eP	31 39.00	0.8	(LJU). Felt at Polizzaa ond						DST	2.83	32	ePn	57 11.00	0.0	
RUV	84.98	105	iP	31 42.90	3.5X				ePn	35 25.00	0.0	VLI	3.05	262	ePn	57 15.00	1.0	
	1.3s		140.00nm		5.6mb	S.D. = 0.6 on 4 of 4 obs.						BCK	3.11	84	ePn	57 15.20	0.2	
TOA	85.45	28	eP	31 43.10	2.0	APR 18, 1991 06h 44m 25.21± 0.42s												
OBN	88.95	325	iP	31 57.00	-0.9	46.528 N ± 5.0km 12.913 E ± 4.1km												
	1.0s		*****nm		8.5mb X	DEPTH = 5.0km (geophysicist)												
			e	32 45.00	193kmX	NORTHERN ITALY (545)												
			e	32 59.00		ML 3.0 (KBA). MD 2.8 (TRI). 2.8												
INK	90.48	22	eP	32 04.00	-0.7	(LJU). Felt at Polizzaa ond												
			pP	33 02.00	237km													
PRNI	91.73	300	ePd	32 13.00	1.7													

ALT 3.26 55 ePn 57 18.00 0.8
 EDC 3.26 16 ePn 57 10.00 -7.1X
 KGT 3.27 8 iPn 57 16.20 -1.0
 BNT 3.28 17 ePn 57 10.00 -7.4X
 KCT 3.30 23 ePn 57 20.00 2.4
 YLV 3.95 31 ePn 57 38.00 11.1X
 RDO 4.03 347 ePn 57 27.50 -0.4
 CTT 4.16 18 ePn 57 38.00 8.3X
 GPA 4.18 41 ePn 57 44.00 14.0X
 ISK 4.27 25 ePn 57 39.00 7.7X
 HRT 4.29 32 ePn 57 40.00 8.4X
 KDZ 4.54 348 iP 57 34.00 -1.2
 RZN 4.73 342 iPc 57 38.00 -0.1
 DIM 4.92 350 eP 57 42.00 1.5
 MMB 4.94 333 iP 57 40.00 -0.9
 BBTK 5.43 59 eP 57 48.00 0.0
 VTS 6.01 335 eP 57 56.00 0.0
 MLR 8.29 356 eP 58 29.00 0.9
 PRNI 9.72 132 eP 58 44.00 -3.8X
 MBH 10.08 135 eP 58 50.00 -2.8

S.D. = 1.3 on 21 of 31 obs.

? APR 18, 1991 07h 24m 07.56 ± 1.63s
 5.709 S ± 18.0km 146.927 E ± 22.5km
 DEPTH = 146.7 ± 9.5 km
 4.7mb (5 obs.)

EAST PAPUA NEW GUINEA REGION (207)

LAT 0.94 176 iPc 24 33.24 1.5
 MDG 1.23 292 eP 24 33.44 -0.9
 PMG 3.68 177 iPd 25 03.40 -0.9
 QIS 16.38 205 eP 27 51.00 0.5
 0.6s 32.00nm 4.8mb
 e 29 31.00
 WB2 18.70 220 iPc 28 17.10 -0.3
 0.6s 69.50nm 5.2mb
 e 31 43.10
 e 33 29.30
 e 34 01.10
 RMO 20.74 175 eP 28 36.20 -2.0
 0.5s 7.00nm 4.3mb
 ASPA 21.82 214 iPd 28 50.30 1.3
 0.8s 44.30nm 4.9mb
 iS 32 42.90
 COO 25.18 170 eP 29 21.10 0.1
 0.6s 6.00nm 4.3mb
 PPD 147.15 148 (PKP) 43 34.00 0.7
 S.D. = 1.5 on 9 of 9 obs.

APR 18, 1991 08h 01m 27.07 ± 0.49s
 16.219 N ± 8.8km 96.012 W ± 9.0km
 DEPTH = 37.3km (7 depth phases)
 4.6mb (10 obs.)

OAXACA, MEXICO (60)

Felt (III) in Oaxoco.

OXX 1.10 322 iP 01 46.59 0.2
 iS 02 00.00
 IISM 3.05 335 eP 02 15.69 1.7
 (S) 02 36.10
 SCX 3.28 81 iP 02 26.07 8.8X
 iS 03 04.83
 PUE 3.50 324 (P) 02 20.50 -0.1
 (S) 03 05.00
 IIT 3.54 322 iP 02 23.33 2.0
 (S) 03 01.85
 PPM 3.77 319 iP 02 25.29 0.5
 (S) 03 16.87
 TPX 3.84 109 iP 02 30.52 5.2X
 (S) 03 28.09
 IIA 3.86 320 eP 02 28.03 2.6
 (S) 03 04.66
 III 3.94 304 eP 02 28.12 1.3
 (S) 03 02.90
 UNM 4.33 316 (P) 02 37.00 4.6X
 (S) 03 28.00
 CRX 4.72 313 (P) 02 43.56 5.5X
 (S) 03 49.18
 MRX 6.03 306 iP 02 55.53 -0.7
 (S) 04 19.33
 CGX 7.89 297 (P) 03 28.00 5.5X
 MEO 18.63 353 iPc 05 43.50 -0.4
 TUL 19.61 1 ePd 05 53.50 -1.8
 1.4s 167.00nm 5.1mb
 Z 20s 0.10um 4.5msz
 LR 11 38.60
 ANMO 20.87 335 P 06 08.30 -0.3

1.0s 11.25nm 4.2mb
 RSCP 21.44 24 P 06 28.20 14.0X
 FVM 22.23 12 P 06 21.00 -1.1
 GLA 23.88 318 eP 06 39.00 0.8
 GOL 24.78 343 P 06 47.70 0.5
 pP 06 58.20 40km
 GLD 24.78 343 P 06 48.30 1.2
 1.0s 40.00nm 4.9mb
 pP 06 58.80 40km
 PV09 25.01 335 P 06 49.70 0.3
 BLA 25.05 30 P 06 50.80 1.3
 PLM 25.40 316 eP 06 53.00 0.0
 PEC 25.92 317 P 06 57.70 0.0
 pP 07 07.50 36km
 GSC 26.58 320 eP 07 07.00 3.2X
 CLC 27.40 319 eP 07 11.00 -0.3
 ISA 27.86 318 eP 07 14.00 -1.4
 RSSD 28.63 348 P 07 23.30 0.8
 TNP 28.68 324 P 07 22.50 -0.5
 0.9s 3.91nm 4.1mb
 pP 07 33.00 38km

BW06 28.90 339 P 07 23.30 -1.6
 0.7s 2.44nm 4.0mb
 LRM 32.57 338 eP 07 57.50 0.2
 NEW 36.35 336 P 08 29.00 -0.5
 1.0s 7.50nm 4.6mb
 PNT 38.19 335 eP 08 45.00 0.1
 FFC 38.70 354 eP 08 49.00 -0.1
 1.0s 16.00nm 4.8mb
 ZOBO 42.41 138 Pc 09 21.50 0.8
 Z 24s 0.15um 3.8mszX
 LR 24 14.00
 LPB 42.63 138 P 09 24.00 1.7
 SCH 44.63 24 eP 09 38.00 0.3
 SIV 47.04 131 iPc 09 57.70 0.5
 YKA 48.04 349 eP 10 03.30 -1.1
 0.8s 3.50nm 4.4mb
 INK 57.25 344 eP 11 12.00 -0.9
 pP 11 22.00 33km
 PPD 57.99 130 (P) 11 28.00 9.3X
 SLKM 58.72 332 P 11 22.80 -0.5
 FBA 59.70 337 P 11 29.10 -0.9
 0.8s 6.90nm 4.8mb
 RSO 59.86 331 P 11 29.80 -1.6
 pP 11 41.10 38km
 SVW 61.40 332 P 11 39.40 -2.3
 pP 11 50.40 37km
 VAO 61.81 128 eP 11 45.20 0.2
 PDCR 63.09 113 (P) 11 54.00 0.5
 DAG 71.40 14 eP 12 45.00 0.0
 NB2 84.03 28 P 13 56.80 1.9
 1.2s 7.50nm 4.7mb
 WB2 132.12 258 ePKP 20 37.80 -1.6
 0.4s 1.70nm
 WRA 132.13 258 PKP 20 38.00 -1.4
 1.5s 1.40nm
 GBA 149.67 13 PKPc 21 14.60 4.2X
 0.7s 3.30nm
 S.D. = 1.1 on 44 of 53 obs.

APR 18, 1991 08h 57m 01.50 ± 0.72s
 5.462 S ± 4.2km 154.111 E ± 4.9km
 DEPTH = 143.0 ± 6.8 km
 4.8mb (17 obs.)

SOLOMON ISLANDS (193)

RAB 2.31 303 iPc 57 39.50 -0.9
 0.6s 640.00nm
 iS 58 10.00
 SVO 6.74 123 eP 58 45.00 5.7X
 HNR 7.00 125 eP 58 43.00 0.2
 LAT 7.17 260 ePd 58 46.30 1.2
 PMG 7.93 240 eP 58 55.00 -0.3
 eS 00 23.00
 CTA 16.42 207 iPd 00 46.30 1.2
 0.9s 60.50nm 4.9mb
 DZM 20.37 145 iPd 01 28.50 -0.4
 OIS 20.58 222 iPd 01 30.90 0.0
 0.7s 34.00nm 4.9mb
 RMO 21.53 193 eP 01 40.00 -0.3
 0.7s 31.00nm 4.8mb
 QLP 23.02 203 iPd 01 56.00 1.2
 0.5s 35.00nm 5.0mb
 COO 25.07 185 eP 02 15.30 1.0
 0.6s 5.00nm 4.2mb
 ASPA 26.58 225 eP 02 27.50 -0.7
 0.5s 9.10nm 4.6mb

e 02 52.80
 KNA 26.89 246 eP 02 30.80 -0.3
 NOZ 39.50 150 P 04 19.60 0.0
 THZ 39.84 158 Pd 04 22.50 0.0
 TCW 39.91 156 P 04 23.30 0.4
 MNG 39.91 154 Pc 04 22.50 -0.5
 0.4s 24.00nm 5.3mb
 MRW 40.10 156 eP 04 24.40 0.0
 CAW 40.14 155 eP 04 24.50 -0.4
 WDW 40.25 155 P 04 25.30 -0.4
 PGZ 40.26 154 P 04 25.30 -0.5
 0.5s 29.00nm 5.3mb
 MTW 40.37 155 P 04 25.90 -0.8
 LTZ 40.50 159 Pd 04 28.10 0.3
 BLW 40.53 155 P 04 27.40 -0.6
 KHZ 40.65 158 P 04 28.10 -0.8
 WHN 52.23 316 Pd 06 01.00 0.9
 1.2s 20.00nm 4.8mb
 CN2 55.44 335 eP 06 22.00 -1.3
 GYA 55.83 307 P 06 27.00 0.4
 TIY 57.85 321 eP 06 45.00 4.4X
 XAN 58.00 316 iPc 06 40.60 -1.0
 KMI 58.44 304 eP 06 45.50 0.4
 CHG 59.45 295 eP 06 51.90 0.1
 CHTO 59.45 295 ePc 06 51.90 0.1
 e 07 20.50
 CD2 60.16 310 iPc 06 56.30 -0.2
 1.0s 53.00nm 5.5mb
 LZH 62.61 315 iPc 07 11.00 -2.0
 1.5s 59.00nm 5.3mb
 GTA 67.03 317 iPc 07 42.00 0.6
 0.8s 20.00nm 5.0mb
 GUN 73.58 301 P 08 21.70 0.2
 PKI 73.89 301 P 08 23.06 -0.2
 KKN 74.06 301 P 08 24.04 0.0
 DMN 74.16 301 P 08 24.96 0.2
 GKN 74.66 301 P 08 27.48 0.0
 ANM 76.02 17 eP 08 35.20 0.9
 SVW 76.92 23 eP 08 40.90 1.6
 WMO 77.11 317 P 08 40.50 -0.3
 PP 09 12.50
 KOD 77.90 282 eP 08 46.60 0.7
 TTA 77.91 21 eP 08 45.90 1.1
 GBA 78.40 285 Pc 08 48.20 -0.1
 0.5s 5.50nm 4.6mb
 PMR 79.75 24 eP 08 54.90 0.2
 0.9s 10.40nm 4.6mb
 IMA 80.65 19 eP 09 00.60 1.1
 0.7s 6.30nm 4.5mb
 TOA 81.22 24 eP 09 04.00 1.5
 FBA 82.02 21 eP 09 06.20 -0.3
 0.5s 9.60nm 4.8mb
 POO 82.54 289 eP 09 08.50 -1.6
 MAW 85.46 203 iPd 09 24.60 0.7
 INK 88.61 21 eP 09 38.00 -1.0
 YKA 95.40 28 eP 10 09.60 -0.9
 0.7s 0.60nm 4.1mb
 S.D. = 0.8 on 53 of 55 obs.

APR 18, 1991 09h 18m 30.46 ± 0.15s
 37.457 N ± 3.8km 68.273 E ± 2.4km
 DEPTH = 33.0km (normal)
 5.4mb (74 obs.) 5.1msz (14 obs.)
 AFGHANISTAN-USSR BORDER REGION (717)

Several people killed and many injured in Badakhshan Province, Afghanistan. One person killed, 6 injured and about 1,000 buildings damaged (VII) in the Kobadiyen district, USSR. Landslides occurred in the Bogi-Dzhud area. Felt (VI) at Shartuz, (IV) at Kolkhozobad and Leninskiy and (III) at Dushonbe, USSR.
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 16S, 32C
 Centroid Location:
 Origin Time 09:18:27.8 0.7
 Lat 37.28N 0.14 Lon 67.68E 0.09
 Dep 15.0 FIX Half-duration 2.0
 Moment Tensor; Scale 10**17 Nm
 Mrr= 1.03 0.10 Mtt= 0.17 0.13
 Mff=-1.20 0.10 Mrt= 0.32 0.32
 Mrf= 1.57 0.37 Mtf= 0.21 0.12
 Principal Axes:

18d 09h

T Val= 1.92 Plg=60 Azm=295
 N 0.09 11 185
 P -2.01 27 89
 Best Double Couple: Mo=2.0*10**17
 NP1: Strike=153 Dip=20 Slip= 56
 NP2: 8 73 102

KSH 6.37 69 Pn 20 04.10 -0.5
 QUE 7.33 189 iPd 20 20.10 2.0
 1.1s 2113.92nm 7.0mb X
 e 22 33.10
 NDI 11.52 137 iPc 21 12.70 -2.9
 0.8s 261.19nm 6.5mb X
 eS 23 17.00
 TEH 13.68 268 eP 21 45.00 0.4
 WMO 16.04 61 Pd 22 11.50 -3.7X
 4.0s 2000.00nm 5.6mb X
 Z 12s 10.90um 3.9mszX
 S 25 08.00
 SS 25 22.00
 GKN 16.67 120 P 22 18.02 -5.2X
 DMN 17.24 120 P 22 26.56 -3.9X
 KKN 17.24 119 P 22 25.82 -4.7X
 TAB 17.36 279 eP 22 28.00 -4.0X
 i 22 34.00
 KER 17.42 266 iPc 22 34.20 1.5
 PKI 17.47 119 P 22 28.00 -4.7X
 GUN 17.59 118 P 22 30.26 -4.7X
 BOM 18.92 167 iP 22 52.00 1.0
 iS 26 29.00
 DHR 18.96 239 ePc 22 51.00 -0.4
 POO 19.48 164 iPd 22 56.40 -1.2
 1.0s 64.00nm 4.9mb
 iS 26 40.00
 LSA 20.54 105 iPc 23 08.50 -0.7
 3.0s 1000.00nm 5.7mb
 PP 23 12.00
 iS 26 54.00
 SS 27 07.50
 HYB 21.92 153 iP 23 22.00 -0.8
 1.0s 200.00nm 5.5mb
 eS 27 23.00
 RYD 22.42 242 iPc 23 28.00 0.3
 GTA 24.72 76 Pc 23 51.00 0.9
 2.4s 1490.00nm 6.1mb
 Z 19s 14.30um 5.5mszX
 GBA 25.12 159 Pc 23 54.50 0.6
 0.8s 58.10nm 5.2mb
 BHL 26.66 272 P 24 08.00 -0.2
 S 29 06.00
 HRI 26.78 271 eP 24 12.00 2.7X
 KAS 26.84 289 iPc 24 10.60 0.9
 DS1 27.64 268 eP 24 19.00 1.9
 BBTk 27.73 286 iPc 24 19.00 1.1
 OBN 27.77 320 iP 24 17.20 -0.7
 4.0s 800.00nm 5.8mb X
 Z 10s 4.20um 5.3mszX
 N 14s 2.00um
 E 16s 3.20um
 i 24 51.00
 iPP 25 12.00
 iS 29 10.00
 eSS 30 56.00
 eSSS 31 32.00
 KOD 28.34 161 iPc 24 24.60 0.8
 0.7s 64.38nm 5.4mb
 LZH 28.43 82 iPc 24 24.50 0.2
 2.2s 250.00nm 5.5mb
 N 11s 6.37um
 PP 25 19.00
 PcP 27 36.50
 eS 29 06.00
 SS 30 34.00
 ScP 31 06.00
 ScS 35 00.00
 MBH 28.74 264 eP 24 29.00 2.0
 CD2 29.95 92 eP 24 37.10 -0.8
 Z 10s 3.90um 5.3mszX
 N 11s 5.40um
 eS 29 35.00
 HRT 29.97 289 eP 24 38.90 1.0
 YLV 30.22 288 eP 24 39.40 -0.8
 ELL 30.47 281 iP 24 42.40 -0.1
 CFR 30.85 297 eP 24 45.00 -0.6
 DST 30.92 286 eP 24 44.00 -2.3
 HLW 31.51 267 eP 24 52.00 0.5
 KMI 31.74 103 Pd 24 54.00 0.1

2.5s 160.00nm 5.4mb
 Z 28s 5.90um 5.1mszX
 E 13s 1.80um
 KGT 31.80 288 eP 24 53.00 -1.0
 VRI 31.86 299 ePc 24 55.00 0.5
 BTO 32.36 71 P 24 59.50 0.4
 N 12s 4.00um
 E 12s 4.50um
 ePP 26 10.00
 S 30 15.00
 ScS 35 28.00
 MLR 32.41 298 iPd 24 56.00 -3.4X
 CHG 32.60 116 eP 25 00.00 -1.2
 1.0s 54.00nm 5.4mb
 PVL 32.96 294 iPc 25 06.00 2.0
 XAN 32.99 83 P 25 02.80 -1.7
 N 11s 4.00um
 E 13s 2.70um
 S 30 22.00
 MTUR 33.03 297 eP 25 00.00 -4.8X
 CMP 33.05 298 eP 25 04.00 -0.9
 HHC 33.49 71 eP 25 10.00 1.1
 4.0s 700.00nm 5.9mb X
 SP 25 21.50
 PP 26 20.00
 S 30 23.60
 RZN 33.57 291 iP 25 10.00 0.3
 BDT 33.68 118 eP 25 09.00 -1.6
 1.0s 207.00nm 6.0mb
 GYA 34.16 97 P 25 15.00 0.2
 Z 24s 3.10um 5.0mszX
 N 12s 3.10um
 E 12s 1.50um
 S 30 38.00
 SS 30 49.00
 VTS 34.57 293 iPc 25 19.00 0.8
 TIY 34.75 76 Pd 25 20.20 0.5
 4.0s 1000.00nm 6.1mb X
 Z 16s 4.50um 5.3mszX
 KKB 34.76 292 iPc 25 20.00 0.3
 KHT 35.11 122 iPc 25 21.70 -1.2
 VAY 35.22 291 eP 25 24.00 0.4
 BZS 35.44 298 eP 25 25.00 -0.4
 NST 35.55 119 eP 25 29.50 3.0X
 KAF 35.64 327 iP 25 26.20 -0.7
 0.5s 15.50nm 5.2mb
 NUR 35.78 324 iP 25 27.40 -0.6
 0.7s 30.70nm 5.3mb
 SKO 35.96 292 eP 25 29.00 -0.8
 i 27 02.00
 SPC 36.27 304 iPc 25 33.70 1.1
 BEO 36.32 297 eP 25 33.00 0.2
 PSZ 36.52 302 iP 25 35.00 0.4
 BJI 37.10 71 eP 25 40.00 0.6
 Z 21s 6.70um 5.4mszX
 N 14s 3.83um
 ePP 27 08.00
 eS 31 20.00
 BUD 37.12 302 eP 25 40.20 0.7
 UZD 37.48 300 eP 25 43.10 0.6
 SRO 37.59 302 iP 25 44.40 1.0
 ZST 38.38 303 iP 25 50.30 0.2
 e(PP) 27 11.50
 WHN 38.51 86 Pc 25 52.50 1.1
 1.5s 100.00nm 5.4mb
 Z 20s 2.50um 5.0mszX
 N 13s 4.00um
 E 13s 1.70um
 TIA 38.77 77 eP 25 54.50 1.0
 4.0s 1000.00nm 6.0mb X
 Z 24s 2.90um 5.0mszX
 N 11s 2.10um
 E 11s 2.60um
 PP 27 25.00
 eS 31 52.50
 KSP 38.82 307 iPc 25 54.20 0.4
 1.2s 34.00nm 5.0mb
 e 27 19.20
 e 30 13.00
 VKA 38.90 303 e(P) 25 51.00 -3.5X
 3.0s 358.00nm 5.6mb
 i 25 55.70
 i 27 26.30
 LR 47 19.00
 UPP 38.97 322 iP 25 54.40 -0.4
 KEV 39.11 339 iP 25 55.40 -0.5
 0.6s 18.30nm 5.0mb

BSD 39.78 314 iPc 26 01.60 0.0
 0.8s 28.00nm 5.1mb
 i 26 27.70
 PRU 39.97 306 ePc 26 04.30 1.0
 1.4s 88.00nm 5.3mb
 Z 10s 2.90um 5.4mszX
 N 10s 2.80um
 e 26 12.00
 e 27 28.60
 ePP 27 38.00
 BRG 40.31 307 iPc 26 06.80 0.7
 1.1s 70.00nm 5.3mb
 i 26 08.40
 i 26 16.00
 e 34 44.00
 QIZ 40.58 105 eP 26 08.50 -0.1
 N 17s 1.70um
 E 15s 1.70um
 KHC 40.65 305 iPc 26 09.50 0.6
 1.3s 27.00nm 4.8mb
 e 27 41.40
 S 32 40.00
 SGO 40.76 291 P 26 11.00 1.1
 CLL 40.89 308 iPc 26 10.80 0.0
 HFS 40.96 322 eP 26 10.50 -0.8
 0.6s 30.70nm 5.2mb
 Z 18s 2.31um 5.1mszX
 LR 41 13.00
 KBA 41.01 302 iPc 26 12.50 0.4
 1.2s 73.80nm 5.3mb
 i 26 30.30
 i 27 25.30
 i 28 45.90
 GZH 41.09 97 P 26 11.00 -1.8
 Z 20s 3.10um 5.2mszX
 eS 32 22.00
 BHG 41.25 303 iPc 26 14.30 0.5
 1.6s 92.00nm 5.3mb
 FVI 41.46 301 P 26 03.00 -11.7X
 DL2 41.46 71 P 26 18.00 2.3
 4.0s 800.00nm 5.8mb X
 Z 20s 3.70um 5.3mszX
 S 32 32.00
 NJ2 41.50 82 Pd 26 17.60 1.5
 1.0s 100.00nm 5.5mb
 Z 16s 1.80um 5.0mszX
 N 11s 1.60um
 E 13s 2.80um
 HOF 41.66 307 eP 26 17.60 0.4
 MOX 41.80 307 iPc 26 19.20 0.9
 2.3s 213.00nm 5.5mb
 Z 17s 3.10um 5.3mszX
 N 15s 1.80um
 E 17s 2.30um
 eS 32 50.00
 SNG 42.07 128 eP 26 29.50 8.6X
 GRF 42.13 306 iPc 26 22.50 1.4
 1.7s 289.00nm 5.7mb
 Z 22s 1.60um 4.9mszX
 SNY 42.19 66 Pc 26 20.00 -1.6
 Z 15s 4.50um 5.5mszX
 PP 26 27.60
 S 32 32.00
 SS 35 42.00
 FUR 42.27 303 iPc 26 23.10 0.9
 NB2 42.30 323 P 26 21.20 -1.1
 0.7s 19.50nm 4.9mb
 CTI 42.31 300 P 26 23.40 0.7
 OCA 42.61 302 iPc 26 25.00 -0.3
 0.7s 11.00nm 4.7mb
 MUD 43.07 316 eP 26 28.00 -0.5
 1.2s 21.00nm 4.7mb
 CN2 43.11 63 eP 26 28.50 -0.6
 1.0s 20.00nm 4.8mb
 Z 15s 15.00um 6.0mszX
 N 11s 2.20um
 E 11s 3.00um
 ePP 26 37.00
 eS 32 54.00
 eSS 36 00.00
 OSS 43.24 301 ePc 26 30.10 -0.3
 SSE 43.71 82 Pd 26 35.00 0.9
 1.0s 50.00nm 5.2mb
 Z 20s 2.75um 5.2mszX
 N 14s 2.14um
 E 14s 1.10um

VDL	43.73	301	ePc	26	33.90	-0.5	LDF	49.65	306	eP	27	19.60	-1.1	TUL	105.52	347	ePKP	36	59.60	8.0X
LLS	43.99	302	ePc	26	35.60	-0.8		1.4s	87.15nm				5.6mb		1.4s	17.40nm				
SLE	44.17	303	eP	26	37.30	-0.4	FLN	49.85	306	eP	27	20.80	-1.4	ANMO	107.80	355	Pdiff	32	52.00	3.5X
OZH	44.34	91	eP	26	39.00	-0.2	LFF	50.04	301	eP	27	23.00	-0.7	SIV	130.62	282	PKP	37	40.40	0.4
Z	20s	3.70um			5.3Msz			0.9s	39.30nm			5.4mb			i	39	54.40			
N	15s	1.70um					EKA	50.08	315	Pd	27	23.30	-0.5	CCH	135.37	284	(PKP)	37	50.00	0.6
		eS		33	12.00			0.9s	24.40nm			5.2mb		ZOBO	136.23	287	PKPc	37	51.50	0.1
IPM	44.34	130	ePc	26	38.00	-1.4	MFF	50.18	303	eP	27	23.40	-1.3	LPB	136.37	286	PKP	37	53.00	1.6
	0.7s	30.20nm			5.2mb			1.2s	41.65nm			5.3mb		MDZ	144.88	264	i(PKP)	38	06.20	0.4
FEL	44.48	303	eP	26	39.66	-0.6	GRR	50.18	306	eP	27	23.10	-1.6	PEL	146.42	265	iPKPc	38	10.00	1.7
YAK	44.49	36	iP	26	39.50	-0.5		1.1s	46.40nm			5.4mb		PCH	146.44	264	ePKP	38	10.50	2.1
		e		28	19.00		BAG	50.43	100	eP	27	26.00	-1.2	SAN	146.50	264	ePKP	38	10.00	1.6
		iPcP		28	36.00		OCP	51.85	101	eP	27	43.00	5.2X	TACH	146.78	264	iPKP	38	12.50	3.7X
		ePPP		28	58.00		DAG	53.22	343	iPd	27	46.10	-1.2	LCCH	147.23	265	ePKP	38	12.50	3.0X
		eS		33	08.00			0.6s	26.00nm			5.4mb			S.D. = 1.0	on 193	of 216	obs.		
		ePS		33	28.00		MAT	54.63	68	iPd	27	57.10	-1.1							
		eScS		36	38.00			0.8s	38.81nm			5.5mb								
		eSSS		41	18.00		Z	20s	1.77um			5.1Msz								
GWF	44.56	305	P	26	41.35	0.5			eS		35	34.00								
WTS	44.68	309	eP	26	42.00	0.3	AKU	55.11	330	eP	28	00.90	-0.3							
	1.0s	38.00nm			5.2mb			1.0s	24.00nm			5.2mb								
WLS	44.82	304	P	26	42.46	-0.5	MAL	56.57	293	iPc	28	10.80	-1.4							
CDF	44.87	304	P	26	42.89	-0.6	IFR	58.48	290	iPc	28	25.50	-0.4							
BBS	44.88	303	P	26	42.63	-0.8	TIO	61.28	288	iP	28	44.00	-1.1	PZZ	0.33	41	P	28	55.26	0.2
PGF	44.89	296	eP	26	42.70	-1.0			i	29	08.50									
	0.9s	42.60nm			5.3mb		BRW	66.93	14	ePc	29	21.90	0.7	STV	0.38	91	P	28	55.57	-0.4
ORO	44.91	300	P	26	41.60	-2.2	BUL	68.39	220	iPc	29	31.00	-0.2							
ECH	44.98	304	P	26	43.65	-0.6			iPcP	59	36.60		ENR	0.45	93	P	28	56.86	-0.4	
MOF	45.06	304	P	26	44.69	-0.3			iScP	02	13.90									
DIX	45.21	301	eP	26	45.90	-0.5	ANM	69.97	22	ePc	29	41.20	1.0	RRL	0.67	359	P	29	01.41	-0.2
BSF	45.29	304	P	26	46.54	-0.3	IMA	71.85	17	ePc	29	51.70	0.0							
MEM	45.36	308	Pc	26	47.30	0.2		0.9s	27.80nm			5.3mb		FRF	0.70	189	Pg	29	01.70	-0.2
LOMF	45.36	303	P	26	46.54	-0.7	KIC	72.68	265	Pc	29	56.74	-0.4							
EMS	45.54	301	ePc	26	48.70	-0.2		0.9s	40.00nm			5.4mb		ROB	0.77	86	P	29	03.26	0.0
HAU	45.56	304	eP	26	47.80	-1.0	TIC	72.73	265	P	29	56.98	-0.5							
Z	20s	1.13um			4.8Msz			0.7s	22.00nm			5.2mb		LRG	0.86	202	Pg	29	04.10	-0.5
VITF	45.76	304	P	26	50.12	-0.1	LIC	72.99	265	Pc	29	58.38	-0.6							
LPG	45.78	300	eP	26	50.20	-0.7		0.9s	38.00nm			5.4mb		IMI	0.86	113	P	29	05.00	0.3
	1.0s	41.00nm			5.3mb		Z	20s	2.00um			5.4Msz								
LPL	45.79	300	eP	26	50.10	-0.8	INK	73.29	8	eP	30	00.00	0.1	LMR	0.94	193	Pg	29	06.80	0.8
	1.1s	50.05nm			5.4mb			1.5s	215.00nm			5.9mb								
RSL	45.83	301	P	26	50.90	-0.2	TTA	73.87	19	ePc	30	04.40	0.9	FIN	1.02	92	P	29	07.07	-0.3
MDJ	45.84	61	eP	26	50.50	-0.5		1.3s	119.60nm			5.7mb								
	4.0s	820.00nm			6.0mb X		FBA	74.14	15	ePc	30	05.80	0.9	PCP	1.29	76	P	29	12.69	0.7
Z	30s	2.90um			5.0Msz X			1.2s	121.30nm			5.8mb								
N	13s	2.90um					SVW	75.47	20	ePc	30	14.00	1.3							
E	13s	3.70um					MBL	75.85	131	iPc	30	13.00	-2.3							
		eS		33	30.00			0.5s	10.00nm			5.1mb								
BNI	45.94	300	P	26	52.10	0.2	PMR	76.73	17	ePc	30	19.80	0.1							
FRF	46.31	298	eP	26	53.70	-1.0		1.2s	116.10nm			5.8mb								
	0.9s	45.85nm			5.4mb		RSO	76.79	20	P	30	20.20	-0.1							
DOU	46.33	307	Pc	26	58.80	4.0X	TOA	76.95	16	iPc	30	22.60	1.6							
KBS	47.20	347	eP	27	01.30	0.0	PDB	76.97	21	P	30	20.80	-0.2							
LBF	47.34	303	eP	27	01.40	-1.5	SLKM	77.41	18	P	30	22.80	-0.7							
	1.1s	30.50nm			5.2mb		KLU	77.55	16	P	30	25.10	0.8							
SSB	47.35	301	P	27	03.08	0.1	BALM	78.72	15	P	30	31.40	0.6							
LOR	47.35	303	eP	27	01.70	-1.3	MEKA	79.30	136	eP	30	32.80	-1.5							
	1.0s	14.00nm			4.9mb		SCH	80.34	335	eP	30	39.00	-0.5							
Z	21s	1.75um			5.0Msz		YKA	80.37	1	eP	30	39.00	-0.4							
SMF	47.50	303	eP	27	03.10	-1.1		1.0s	44.10nm			5.4mb								
	1.1s	68.35nm			5.6mb		POF	80.43	221	iPc	30	42.00	1.8							
SSF	47.63	303	eP	27	03.90	-1.3		1.2s	62.50nm			5.5mb								
	1.0s	20.00nm			5.1mb		SIT	83.76	13	eP	30	59.50	2.4							
AVF	47.80	303	eP	27	05.50	-0.9	CER	83.94	219	iPc	31	00.00	1.7							
	1.1s	62.25nm			5.5mb			1.1s	54.05nm			5.6mb								
PLDF	47.81	302	P	27	06.49	-0.2	BLE	84.69	220	iPc	31	04.00	2.0							
GRC	47.87	304	P	27	06.79	-0.2		1.0s	50.00nm			5.7mb								
AGO	48.12	302	P	27	09.10	0.1	ASPA	86.60	123	iPc	31	10.10	-1.7							
BGF	48.19	303	eP	27	08.10	-1.4		1.1s	11.00nm			5.0mb								
	1.2s	44.65nm			5.4mb			i	32	10.80										
LBL	48.25	301	P	27	10.24	0.3	CBM	87.36	332	P	31	16.50	1.3							
PYM	48.28	302	P	27	10.08	-0.2	FFC	87.80	354	iPc	31	17.90	0.7							
NAI	48.30	224	iP	27	14.00	3.1X		1.3s	97.00nm			5.9mb								
		PP		28	48.00		EDM	89.68	1	iPc	31	27.50	1.2							
		PPP		29	05.00		PNT	93.32	5	ePc	31	44.00	0.9							
		S		33	10.00			1.2s	39.00nm			5.7mb								
MAF	48.46	302	eP	27	10.80	-0.8	NEW	94.52	4	P	31	50.30	1.6							
	1.0s	51.00nm			5.5mb			1.3s	26.65nm			5.5mb								
TCF	48.68	302	eP	27	12.50	-0.8	GMW	94.80	7	P	31	51.70	1.8							
	1.0s	50.00nm			5.5mb		LON	95.69	7	P	31	55.10	1.0							
CAF	49.14	301	eP	27	16.30	-0.5	LRM	97.10	1	eP	32	01.70	1.0							
	1.2s	80.35nm			5.6mb		RSSD	98.50	354	P	32	08.40	1.3							
LSF	49.15	303	eP	27	15.50	-1.4		1.2s	17.86nm			5.5mb								
	1.1s	41.50nm			5.4mb		BW06	100.12	358	Pdiff	32	14.00	-0.3							
RJF	49.41	301	eP	27	18.50	-0.4	FVM	102.40	343	Pdiff	32	29.80	5.6X							
	1.1s	24.40nm			5.1mb		GOL	103.00	355	Pdiff	32	28.70	1.5							
Z	21s	1.50um			5.0Msz		TNP	104.66	4	Pdiff	32	37.70	3.1X							

% APR 18, 1991 09h 28m 48.12±0.64s
44.251 N ± 4.7km 6.797 E ± 5.2km
DEPTH = 10.0km (geophysicist)

18d 09h

Lat 22.82S 0.03 Lon 179.40W 0.02
 Dep 482.5 1.4 Half-duration 3.4
 Moment Tensor: Scale 10**17 Nm
 Mrr= 5.05 0.14 Mtt= 2.17 0.24
 Mff=-7.22 0.23 Mrt= 6.04 0.23
 Mrf= 1.54 0.22 Mtf=-0.72 0.19
 Principal Axes:
 T Vol= 9.86 Plg=52 Azm=356
 N -2.15 35 201
 P -7.71 12 102
 Best Double Couple: Mo=8.8*10**17
 NP1: Strike=156 Dip=45 Slip= 35
 NP2: 39 66 129

SVA 5.21 336 eP 42 48.30 0.0
 VUN 5.31 337 iPd 42 49.10 -0.2
 OVA 5.50 341 iP 42 52.30 1.1
 KRO 5.71 348 iPc 42 53.50 0.2
 SGE 5.90 334 iPc 42 56.80 1.6
 NDF 5.96 329 ePd 42 54.10 -1.6
 MBU 6.19 343 iP 42 59.60 1.4
 NDE 6.43 348 eP 43 00.30 -0.4
 PVC 12.67 292 iPd 44 09.50 2.0
 BKM 12.76 292 iPc 44 11.20 2.7
 DZM 13.17 271 iPd 44 14.00 1.2
 PUZ 15.24 187 eP 44 32.90 -1.1
 WLZ 15.49 195 P 44 38.70 2.1
 NOZ 15.80 188 eP 44 38.20 -1.5
 HITZ 16.28 194 P 44 47.10 2.6
 WHH 16.30 192 eP 44 44.30 -0.5
 MOH 16.43 190 eP 44 46.90 0.9
 RATZ 16.43 194 eP 44 47.10 1.0
 KETZ 16.68 194 eP 44 51.10 2.5
 CNZ 16.80 194 eP 44 50.60 0.8
 TTH 16.88 190 eP 44 52.00 1.5
 PGZ 18.03 191 eP 45 00.40 -1.3
 MNG 18.17 193 eP 45 01.10 -2.1
 KIW 18.53 194 P 45 05.00 -1.6
 MTW 18.69 192 P 45 06.50 -1.7
 CAW 18.73 193 eP 45 07.10 -1.4
 BLW 18.90 192 eP 45 10.40 0.2
 MRW 18.93 194 eP 45 10.10 -0.3
 WEL 18.97 194 P 45 10.00 -0.8
 TCW 19.01 195 eP 45 10.40 -0.8
 CCW 19.53 195 eP 45 17.00 0.7
 THZ 19.88 197 eP 45 20.70 1.0
 KHZ 20.33 195 eP 45 23.90 0.0
 LTZ 21.00 197 P 45 29.80 -0.5
 MQZ 21.76 196 eP 45 37.10 -0.1
 HNR 23.95 301 eP 45 56.00 -1.4
 MMCZ 23.96 200 P 45 56.30 -1.1
 MHZ 23.96 200 P 45 56.50 -0.9
 MSZ 24.08 203 eP 46 01.90 3.6X
 TLC 24.15 200 eP 45 58.50 -0.6
 SVO 24.22 301 P 46 04.00 4.2X
 TBI 27.46 97 iP 46 29.10 0.5
 AFR 28.22 85 iP 46 34.50 -0.8
 PAE 28.37 85 iP 46 35.90 -0.7
 PPT 28.40 85 iP 46 36.10 -0.8
 PPN 28.54 85 iP 46 37.40 -0.7
 TVO 28.64 85 iP 46 38.50 -0.5
 RMO 29.16 256 iPd 46 43.60 0.2
 i 46 58.20 59kmX
 i 47 06.50
 iPP 48 04.80

CNB 29.87 239 ePc 46 51.00 1.4
 1.0s 220.00nm 5.6mb
 PMO 30.72 81 iP 46 56.40 -0.5
 1.2s 270.00nm 5.6mb
 VAH 30.88 81 iP 46 57.60 -0.7
 1.2s 235.00nm 5.5mb
 TPT 30.97 81 iP 46 58.60 -0.5
 1.2s 720.00nm 6.0mb
 RUV 31.12 81 iP 46 59.80 -0.6
 1.2s 450.00nm 5.8mb
 CMS 32.02 247 iPd 47 09.00 1.0
 0.9s 167.00nm 5.5mb
 CTA 32.09 268 iPd 47 09.30 0.6
 0.6s 233.33nm 5.8mb
 CTAO 32.09 268 ePd 47 08.91 0.2
 QLP 33.21 256 iPd 47 18.80 0.8
 0.2s 110.00nm 6.0mb
 TOO 33.49 236 iPd 47 21.70 1.4
 0.5s 73.00nm 5.4mb
 TAU 34.04 226 iPd 47 26.00 1.2
 0.5s 73.00nm 5.4mb
 PMG 34.77 287 iPc 47 30.10 -1.1
 1.0s 540.00nm 6.0mb
 BFD 35.67 238 iPc 47 39.80 1.3
 0.9s 179.83nm 5.5mb
 LAT 36.21 291 iPd 47 43.20 0.0
 QIS 38.12 266 eP 47 59.00 0.1
 0.8s 70.00nm 5.2mb
 ADE 38.36 242 eP 48 01.50 0.7
 0.9s 179.83nm 5.5mb
 RKT 40.72 99 iP 48 20.00 0.0
 1.2s 360.00nm 5.7mb
 ASPA 42.80 259 iPc 48 36.50 -0.2
 0.8s 70.00nm 5.2mb
 FORR 47.18 249 iPd 49 10.50 -0.1
 KNA 49.28 269 iPd 49 26.20 -0.5
 GUA 50.38 312 eP 49 33.70 -1.1
 1.1s 830.38nm 6.0mb
 PJG 50.45 312 eP 49 34.00 -1.2
 COOL 53.13 248 eP 49 53.70 -1.1
 SBA 55.38 184 iPd 50 13.30 3.3X
 KLB 55.92 247 eP 50 14.00 -0.4
 MBL 56.05 259 iPc 50 14.50 -0.9
 MEKA 56.05 253 eP 50 14.80 -0.6
 NWA0 56.19 245 eP 50 16.00 -0.3
 RKG 56.24 243 eP 50 16.00 -0.6
 BAL 56.96 248 eP 50 20.90 -0.7
 MUN 57.18 246 eP 50 22.90 -0.2
 CSY 61.25 206 iPc 50 52.00 2.1
 1.2s 225.00nm 5.5mb
 TSM 66.73 285 ePc 51 27.50 2.0
 KAKJ 70.16 326 P 51 44.70 -1.1
 BAG 70.57 298 eP 51 47.00 -1.9
 CHJJ 70.65 325 P 51 47.90 -0.8
 IJDJ 70.80 324 P 51 48.90 -0.8
 WKYJ 71.17 322 P 51 51.80 -0.1

MAJO 71.44 325 ePc 51 52.09 -1.3
 MAT 71.44 325 eP 51 52.00 -1.3
 1.0s 120.00nm 5.4mb
 NIJJ 71.56 326 eP 51 54.20 0.3
 OFUJ 71.66 329 P 51 54.20 -0.3
 MTMJ 71.69 325 P 51 54.20 -0.7
 YAMJ 71.75 327 P 51 55.30 0.2
 TKSJ 71.89 321 eP 51 55.20 -0.8
 KAGJ 71.89 316 eP 51 55.90 -0.2
 TSRJ 71.90 323 P 51 55.70 -0.3
 KUMJ 72.84 318 eP 52 00.70 -0.8
 SHK 73.08 320 iP 52 02.00 -0.9
 1.0s 120.00nm 5.4mb
 YONJ 73.08 321 eP 52 01.80 -1.1
 KUSJ 73.56 333 eP 52 04.80 -0.6
 HOOJ 73.58 332 eP 52 06.20 0.7
 SHNJ 73.74 319 eP 52 02.70 -3.9X
 ADK 74.52 2 ePc 52 09.60 -0.9
 1.3s 1505.90nm 6.4mb
 TATO 74.56 306 ePc 52 10.44 -1.0
 MRRJ 74.59 331 eP 52 11.20 0.1
 ASAJ 75.26 333 eP 52 16.00 1.1
 SMY 75.55 356 P 52 15.60 -0.6
 OZH 76.72 305 iP 52 23.00 -0.3
 1.0s 480.00nm 6.0mb
 SSE 78.30 311 iPc 52 31.90 0.1
 1.0s 49.00nm 5.0mb
 HKC 78.78 300 eP 52 35.00 0.5
 KGM 79.14 277 ePc 52 36.90 0.3
 AIA 79.23 157 eP 52 38.50 2.4
 SDN 79.60 11 ePc 52 37.50 -0.5
 1.4s 1886.40nm 6.4mb
 GZH 79.84 300 P 52 40.00 0.0
 BLP 79.99 46 P 52 41.80 1.3
 SYP 80.25 46 eP 52 43.00 0.9
 SBC 80.37 46 ePc 52 43.74 1.2
 0.5s 73.00nm 5.4mb
 PRS 80.42 44 iPc 52 43.80 1.0
 GCC 80.45 43 ePc 52 43.80 0.9
 NJ2 80.48 311 P 52 43.80 0.7
 1.0s 200.00nm 5.6mb
 PCC 80.50 43 iPc 52 43.90 0.8
 BCH 80.57 46 P 52 44.90 1.2
 SAO 80.64 44 ePc 52 44.50 0.6
 OIZ 80.73 295 P 52 45.00 0.3
 PHAM 80.75 45 P 52 45.60 1.1
 PRI 80.76 44 ePc 52 45.70 1.0
 NWRM 80.79 42 P 52 45.40 0.8
 BRK 80.81 42 ePc 52 45.60 0.9
 BKS 80.83 42 iPc 52 45.50 0.7
 1.2s 250.00nm 5.7mb
 MHC 80.87 43 ePc 52 46.20 1.0
 LLA 80.87 44 iPc 52 46.10 1.0
 ARN 80.94 43 P 52 46.60 1.1
 ABL 80.94 46 P 52 46.60 0.8
 PAS 81.24 47 iPc 52 47.43 0.4
 MWC 81.36 47 eP 52 48.00 0.1
 BAR 81.44 49 eP 52 48.00 -0.2
 FHC 81.62 39 ePc 52 50.10 1.2
 PLM 81.68 49 eP 52 50.00 0.4
 RVR 81.69 48 eP 52 50.00 0.6
 PEC 81.78 48 iPc 52 50.00 0.1
 SBB 81.78 47 eP 52 50.00 0.1
 MDJ 81.80 326 Pd 52 48.00 -1.6
 1.2s 210.00nm 5.6mb
 FRI 81.89 44 ePc 52 50.50 0.2

ISA	81.91	46	eP	52	51.00	0.4	1.3s	519.60nm	6.2mb	1.0s	12.40nm	5.3mb									
			e	54	36.00	472kmX				101.45	35	ePdiff	54	19.20	-1.7						
CMB	82.08	43	iPc	52	50.65	-0.7	PMR	87.66	14	iPc	53	17.90	0.0	1.9s	37.00nm	5.6mb					
			epP	54	37.00	479kmX		1.2s	1081.90nm	6.5mb	ZOBO	102.28	114	Pdiff	54	17.00	-9.2X				
			esPd	55	23.27		MSU	87.68	46	P	53	20.00	1.1	16s	0.63um	5.2mszX					
IPM	82.26	278	ePc	52	53.10	0.4			pP	55	00.00	438kmX			i	56	15.00				
	0.9s	252.80nm			5.8mb		SIT	87.83	22	ePc	53	19.70	0.9		LR	07	12.00				
ORV	82.31	41	iPc	52	53.00	0.6		1.2s	350.30nm	6.0mb	GUN	104.38	294	Pdiff	54	35.38	0.3				
CLC	82.58	46	eP	52	54.00	0.1	ANM	87.88	6	ePc	53	19.30	0.4	PKI	104.67	294	Pdiff	54	35.60	-0.7	
			e	54	40.00	476kmX	TIY	87.97	313	iPc	53	21.00	0.9	KKN	104.84	294	Pdiff	54	38.40	1.5	
DL2	82.65	318	P	52	55.00	1.0		1.2s	240.00nm	5.9mb	DMN	104.93	294	Pdiff	54	37.80	0.4				
	1.5s	300.00nm			5.7mb				SS	06	27.50		GKN	105.45	294	Pdiff	54	38.56	-1.0		
TPC	82.67	48	eP	52	55.00	0.6	DUG	88.15	45	P	53	21.10	0.1	GKN	105.45	294	PKP	58	49.36	-1.3	
			e	54	40.00	471kmX		1.6s	73.86nm	5.3mb	KOD	105.99	275	ePKP	58	52.30	0.1				
MIN	82.74	41	ePc	52	54.70	0.0	KLU	88.32	15	P	53	20.80	-0.4	GBA	107.19	278	ePKc	58	52.70	-1.3	
			epP	54	42.00	483kmX	YKU	88.37	19	eP	53	23.10	1.8		0.7s	7.50nm					
GSC	82.82	47	ePc	52	55.44	0.3	KHT	88.57	287	eP	53	24.30	1.1	WMO	107.56	311	iPKP	58	53.50	-0.5	
			e	54	43.00	484kmX	XAN	88.62	308	iPc	53	24.20	1.1	BNH	118.39	51	PKP	59	14.30	-0.2	
			esPd	55	28.72		TOA	88.79	15	ePc	53	23.90	0.6	CBM	120.71	48	ePKP	59	17.50	-1.3	
			iS	02	38.57		BALM	88.85	17	eP	53	22.50	-1.2	BLE	120.95	197	iPKPd	59	19.00	-0.7	
			iS	02	39.07		BDT	89.21	289	eP	53	26.40	0.4		1.5s	222.22nm					
			esS	05	41.90			1.0s	111.10nm	5.7mb	QUE	120.98	292	iPKPc	59	20.20	0.1				
WHN	82.89	307	iPc	52	57.00	1.6	DPW	89.24	36	P	53	26.00	0.3		1.0s	1075.00nm					
	2.0s	700.00nm			6.0mb		DAU	89.28	45	P	53	27.00	0.6			ePP	01	17.30			
			S	02	37.00		KMI	89.35	298	iPc	53	28.00	1.1	CER	121.28	198	iPKPd	59	20.00	-0.4	
GLA	82.94	50	eP	52	56.00	0.3		2.0s	270.00nm	5.8mb		0.7s	30.00nm		SCH	121.37	39	ePKP	59	19.00	-0.9
			e	54	42.00	475kmX		Z	14s	0.90um	5.3mszX				KBS	123.70	357	iPKP	59	23.50	-0.2
LBFM	83.19	40	P	52	57.80	0.8		E	13s	0.70um					SLR	124.72	211	iPKPc	59	28.00	0.5
			pP	54	42.60	469kmX				S	03	40.00			1.2s	78.13nm					
SNY	83.27	321	iPc	52	57.20	0.1	PNT	89.35	34	iPc	53	27.00	0.9			i	01	13.00			
	1.0s	70.00nm			5.3mb			1.2s	396.00nm	6.2mb				POF	124.78	201	iPKPd	59	28.50	1.3	
			PP	54	37.60		PV09	89.72	48	ePc	53	28.70	0.3		1.0s	20.00nm					
BONR	83.36	44	P	52	58.80	0.8	PTI	89.85	43	P	53	29.80	1.0	DAG	125.25	5	iPKPd	59	25.00	-1.8	
			pP	54	41.60	458kmX	ANMO	89.88	52	ePc	53	29.11	0.0		0.7s	54.79nm					
CN2	83.47	323	iPc	52	58.50	0.5		1.3s	108.49nm	5.6mb				PDCR	127.47	128	ePKP	59	29.50	-3.3X	
	1.0s	200.00nm			5.7mb				epP	55	15.80	471kmX				e	59	32.20			
			PP	54	44.00				esP	56	02.73			MA10	127.86	299	iPKPc	59	32.30	-0.8	
SNG	83.68	280	eP	53	00.50	0.8			e	03	26.87					e	01	29.00			
	1.4s	223.26nm			5.6mb				iS	03	48.33			SOB1	128.29	123	ePKP	59	34.40	0.0	
TIA	84.00	313	Pc	53	01.60	0.7			iS	03	48.61					e	59	36.70			
	1.1s	300.00nm			5.9mb				ePS	04	54.93					e	02	08.80			
			eS	02	48.00				esS	06	56.11			BUL	129.24	215	iPKPd	59	36.60	0.4	
KVN	84.12	43	P	53	02.60	0.9	CHG	89.90	290	iPc	53	36.00	6.7X			i	02	13.90			
TNP	84.13	45	iP	53	01.90	0.1		0.9s	140.76nm	5.9mb				KEV	130.59	348	iPKP	59	36.80	-0.3	
	1.1s	129.87nm			5.5mb				eS	03	46.00				0.8s	60.10nm					
			epP	54	49.50	482kmX	HIA	89.95	325	ePc	53	27.92	-0.9	JNW	131.59	4	ePKP	59	40.10	1.1	
			ePP	55	54.20				eSKS	03	09.84			TRO	132.01	352	iPKPc	59	38.70	-1.1	
COR	84.43	37	ePc	53	03.76	1.0			iSKS	03	09.95			PTZ	132.38	222	ePKP	59	28.00	-14.3X	
			esP	55	36.39				eS	03	41.29					i	59	41.00			
			iS	02	53.07				eS	03	42.67					e	02	22.00			
			iS	02	53.32		NEW	90.06	36	iPc	53	28.90	-0.5			i	01	38.00			
			ePS	03	44.63			1.0s	42.50nm	5.3mb				SOD	132.68	347	ePKP	59	31.00	-10.1X	
			esS	05	59.14		HHC	90.16	315	Pc	53	31.40	1.3			i	59	40.20			
PDB	84.95	12	P	53	04.00	-1.1		1.0s	130.00nm	5.8mb				CAI	132.86	124	ePKP	59	42.60	-0.5	
BMW	85.68	35	P	53	10.00	1.1		Z	22s	0.65um	5.0msz			LSZ	133.44	218	ePKP	59	30.00	-14.3X	
			pP	55	02.80	509kmX	IMA	90.84	10	iPc	53	32.90	0.2			i	59	44.90			
RSO	85.86	13	eP	53	08.20	-1.5	COL	90.87	13	ePc	53	31.12	-1.6			i	01	42.80			
SVW	85.91	11	ePc	53	09.80	0.1	FBA	90.87	13	ePc	53	32.30	-0.4			i	02	30.00			
SHW	86.03	36	P	53	12.00	1.3		1.4s	1024.80nm	6.6mb						i	02	30.00			
NVL	86.24	184	iPKP	53	12.50	1.3	BTO	91.05	314	eP	53	35.00	0.8	AKU	135.56	11	iPKP	59	45.90	-0.7	
			e	53	26.00	45kmX	CD2	91.05	303	eP	53	35.50	1.1		2.0s	235.29nm					
			iPP	54	48.00			1.6s	200.00nm	5.8mb						i	02	27.80			
			iPP	54	58.00				iS	03	55.00			KMZ	136.24	217	ePKP	59	41.00	-8.6X	
			e	55	28.00		LRM	91.36	40	ePc	53	35.80	0.0			i	59	52.70			
			e	02	51.00		BW06	91.58	44	iPd	53	36.20	-0.6			i	02	40.50			
			i	03	05.00			1.2s	86.76nm	5.6mb				KAF	137.10	343	iPKP	59	36.30	-13.4X	
			e	03	18.00		GOL	92.87	48	iPc	53	42.90	0.1	OBN	138.24	330	ePKP	59	43.00	-9.0X	
								0.9s	25.57nm	5.3mb						i	59	51.00			
VGB	86.41	37	P	53	12.80	0.4			e	54	01.30	65kmX				i	00	00.00			
MID	86.42	16	ePc	53	12.60	0.5										e	00	13.00			
SLKM	86.45	14	iP	53	11.40	-0.9	GLD	92.99	48	iPc	53	44.00	0.7			e	01	13.00			
			i	53	20.60	29kmX		1.2s	44.44nm	5.4mb				TAB	138.27	302	ePKP	59	43.00	-9.8X	
			ePP	56	28.70		LZH	93.25	308	iPc	53	46.00	1.4			i	59	53.00			
GMW	86.60	34	P	53	14.10	0.8		1.6s	110.00nm	5.7mb				NUR	138.88	342	iPKP	59	43.80	-9.1X	
LON	86.61	36	ePc	53	12.34	-1.0	EDM	94.81	33	ePc	53	50.50	-0.6								
BJI	86.75	316	iPc	53	14.50	0.4	BRW	95.28	7	eP	53	53.50	0.7								
	2.0s	720.00nm			6.1mb		MEO	95.63	55	iPc	53	55.20	0.0								
GYA	86.77	300	iPc	53	15.60	0.9	RSSD	95.75	44	eP	53	55.20	-0.6	RGS	139.38	353	ePKP	59	45.20	-8.6X	
	1.6s	200.00nm			5.6mb			1.3s	46.45nm	5.5mb				DHJN	139.59	271	PKP	00	10.00	14.1X	
	N	20s	3.90um						ePP	57	54.80			UPP	141.20	346	iPKPc	59	50.30	-6.8X	
	E	20s	2.40um						ePc	53	59.10	-1.1		NB2	141.21	352	PKP	59	50.50	-6.7X	
			S	03	13.00		INK	96.93	16	ePc	53	59.10	-1.1		HYA	141.59	356	ePKP	59	53.60	-4.2X
PGC	86.96	33</																			

18d 09h

KONO	142.76	353	ePKPc	59	57.11	-2.7	SRO	151.43	335	iPKP	00	13.20	-0.8	SKO	154.27	322	iPKP	00	17.80	-0.4			
ODD1	142.80	355	ePKP	59	56.50	-3.5X								LJU	154.33	337	ePKP	00	17.50	-0.7			
MUD	145.92	352	ePKPd	00	03.80	-1.4								LDF	154.38	1	ePKP	00	17.50	-0.6			
	1.1s	400.00nm													1.1s	68.35nm							
		i		00	05.40		SRE	151.52	325	ePKPd	00	23.00	8.7X	VITF	154.41	352	PKP	00	17.97	-0.1			
		i		00	24.60		KGT	151.54	314	ePKP	00	13.00	-1.4	FEL	154.42	348	PKP	00	17.97	-0.4			
COP	146.14	348	iPKPd	00	05.60	0.0	BNS	151.55	351	iPKPd	00	14.50	0.4	SLE	154.43	348	ePKPd	00	18.10	-0.2			
	0.8s	468.66nm						1.0s	472.00nm				VBY	154.53	336	ePKP	00	14.00	-4.4X				
		i		00	07.60						00	21.30		GRR	154.56	2	ePKP	00	17.80	-0.5			
BSD	146.14	345	iPKPc	00	04.60	-1.0	ZST	151.58	337	ePKP	00	14.10	-0.2		1.3s	90.25nm							
	1.0s	750.00nm									00	21.50		HAU	154.56	351	ePKP	00	17.90	-0.5			
		i		00	08.60							00	32.80			1.4s	69.70nm						
KAS	146.75	311	ePKP	00	07.00	-0.2						02	19.00		VOY	154.57	338	ePKPd	00	18.40	-0.2		
WAJH	147.24	283	PKP	00	10.00	1.7	BZS	151.66	328	ePKP	00	14.00	-0.4	MOF	154.59	350	PKP	00	17.97	-0.6			
BHL	147.48	297	PKP	00	05.50	-3.1X	HLW	151.72	291	(PKP)	00	15.00	0.0	BSF	154.67	350	PKP	00	18.22	-0.5			
EKA	147.51	4	PKP	00	07.00	-0.9	VKA	151.80	338	iPKPc	00	14.50	-0.1	OGA	154.69	343	iPKPc	00	18.70	-0.2			
	1.1s	328.60nm						2.8s	669.00nm				ZLA	154.72	348	ePKPd	00	18.70	0.0				
HRI	147.52	296	ePKP	00	14.00	5.3X						00	21.90		BBS	154.90	349	PKP	00	18.64	-0.3		
BBTK	148.04	309	iPKPc	00	09.00	-0.4						00	33.60		LPF	154.91	3	ePKP	00	18.20	-0.6		
DSI	148.06	293	ePKP	00	15.00	5.5X						01	27.60			1.1s	65.95nm						
BADA	148.63	288	PKP	00	11.10	0.7	DIM	151.81	318	ePKP	00	15.00	0.2	FNA	155.07	320	ePKPd	00	19.16	-0.2			
RMN	148.82	291	ePKP	00	16.00	5.2X	ENN	151.91	353	iPKPd	00	09.50	-5.1X		ic		00	47.00					
VR1	148.84	324	ePKPd	00	11.00	0.7		1.1s	65.00nm					OSS	155.08	344	ePKPd	00	19.40	0.0			
BRN	149.02	345	ePKPc	00	11.00	0.7						00	21.20		LOMF	155.13	350	PKP	00	18.64	-0.7		
		ic		00	15.80		KHC	151.92	342	iPKPc	00	14.50	-0.3	LLS	155.18	346	ePKPd	00	19.50	0.0			
CSS	149.13	300	ePKP	00	10.50	-0.6							00	31.90		OHR	155.19	322	ePKPd	00	19.70	0.2	
PSN	149.28	319	ePKP	00	11.00	0.0		1.3s	211.00nm								1.1s	87.00nm					
ISR	149.39	323	ePKPc	00	15.00	3.8X							00	22.00		CTI	155.27	341	PKP	00	19.50	-0.1	
MLR	149.50	324	iPKPd	00	11.00	-0.5	GRF	152.02	345	iPKP	00	14.90	0.0	VDL	155.43	345	ePKPd	00	20.00	0.1			
SPC	149.56	334	ePKP	00	08.60	-2.9							00	22.20		LOR	155.57	355	ePKP	00	19.20	-0.6	
		e		00	10.80								00	33.50			1.2s	98.20nm					
		i		00	16.30		UCC	152.03	355	PKPd+	00	15.20	0.4	SSF	155.81	355	ePKP	00	19.60	-0.5			
		e		02	12.20							00	22.00		LBF	155.85	354	ePKP	00	19.60	-0.6		
GPA	149.58	312	iPKP	00	16.10	4.5X						00	22.00			1.3s	93.85nm						
KSP	149.59	340	ePKPc	00	10.60	-0.6	MEM	152.05	353	iPKPd	00	15.17	0.4	AVF	156.09	355	ePKP	00	19.70	-0.8			
	1.1s	979.00nm														1.3s	54.15nm						
		ic		00	16.50								00	21.95		SMF	156.19	355	ePKP	00	20.00	-0.7	
		i		00	21.80								00	32.70			1.2s	61.00nm					
		i		02	09.90		WET	152.10	343	iPKPc	00	14.80	-0.2	BGF	156.35	356	ePKP	00	20.50	-0.4			
HRT	149.78	313	ePKP	00	09.00	-2.9							00	22.70			1.4s	137.25nm					
WIT	149.81	353	ePKP	00	13.00	1.6							00	34.60		MFF	156.37	1	ePKP	00	20.40	-0.5	
ETA	149.81	8	iPKPd	00	16.70	5.2X	KDZ	152.11	318	iPKPd	00	15.00	-0.3		1.1s	85.45nm							
	0.7s	102.00nm					ALN	152.13	316	iPKPc	00	21.84	6.6X	ORO	156.58	347	PKP	00	10.20	-11.1X			
PPCY	149.93	300	ePKP	00	11.50	-0.7	UZD	152.30	333	iPKP	00	15.20	-0.1	TCF	156.66	357	ePKP	00	20.90	-0.4			
GBZT	149.95	313	ePKP	00	17.60	5.5X	SNF	152.32	355	PKP	00	15.50	0.3	MAF	156.71	357	ePKP	00	21.10	-0.2			
ECB	150.06	9	iPKPd	00	17.30	5.5X							00	22.56			1.8s	138.10nm					
	0.9s	261.00nm											00	33.50		LSF	156.72	358	ePKP	00	20.50	-0.8	
ISK	150.07	314	ePKP	00	10.00	-2.2	YER	152.33	307	iPKP	00	21.00	5.2X		1.3s	99.30nm							
ITU	150.08	314	ePKP	00	11.00	-1.2	PGB	152.33	321	ePKP	00	15.00	-0.6	AGO	156.84	356	PKP	00	21.73	0.2			
CLL	150.09	344	iPKP	00	11.20	-0.7	EZN	152.50	314	ePKP	00	22.00	6.2X	PLDF	156.88	355	PKP	00	21.73	0.1			
		i		00	17.00		RZN	152.52	319	ePKP	00	15.00	-1.1	LPL	156.92	349	ePKP	00	21.80	-0.1			
		pPKP		02	15.00		DOU	152.70	354	PKP	00	16.00	1.0		1.3s	75.80nm							
YLV	150.10	313	ePKP	00	15.40	3.0X							00	23.70		LPG	156.94	349	ePKP	00	21.90	-0.1	
CMP	150.14	324	ePKPd	00	16.00	3.7X							e	00	36.30			1.4s	104.55nm				
MTUR	150.15	324	ePKP	00	20.00	7.6X	BEO	152.80	328	ePKP	00	15.50	-0.6	BNI	157.38	349	PKPd	00	25.90	3.6X			
ALT	150.24	310	iPKP	00	18.00	5.3X	VTB	152.86	322	iPKPd	00	16.00	-0.5	LBL	157.65	355	PKP	00	23.07	0.7			
BRG	150.24	343	iPKP	00	11.80	-0.4	WLF	152.96	352	iPKPd	00	16.93	0.8	RJF	157.66	358	ePKP	00	22.10	-0.4			
		i		00	17.60								ic	00	24.50			1.3s	119.15nm				
		i		00	27.20								id	00	37.57		CAF	158.02	357	ePKP	00	23.00	0.1
		ipPKP		02	13.80		MMB	153.18	319	ePKPd	00	15.00	-1.8		1.4s	178.60nm							
ECP	150.30	9	iPKPd	00	17.90	5.7X	STU	153.33	347	iPKPc	00	15.50	-1.2	LFF	158.04	360	ePKP	00	22.70	-0.2			
	1.0s	760.00nm						1.0s	180.00nm					1.4s	100.20nm								
COZ	150.48	325	iPKPc	00	21.00	8.0X	BHG	153.39	341	ePKP	00	16.10	-0.8	LPO	158.29	359	ePKP	00	23.30	0.1			
BCK	150.50	306	iPKP	00	11.20	-1.9	GWf	153.42	350	PKP	00	17.03	0.2		1.5s	120.15nm							
WTS	150.59	352	iPKPd	00	12.90	0.3	FUR	153.43	344	iPKPc	00	01.64	-15.3X	EMON	158.50	16	ePKP	00	23.90	0.4			
	1.0s	930.00nm											ISSF	159.91	3	PKP	00	25.94	0.8				
		ic		00	18.40								JAU	159.92	2	PKP	00	25.62	0.4				
		e		00	27.50		SRS	153.54	319	ePKPc	00	16.04	-1.2	EPF	159.95	1	ePKP	00	25.30	0.2			
PSZ	150.71	333	iPKP	00	12.20	-0.9	STR	153.78	349	PKP	00	17.20	-0.1		1.1s	117.20nm							
PRU	150.87	341	PKPc	00	13.00	-0.2	KBA	153.83	340	iPKPc	00	16.30	-1.4	ECRI	160.19	7	ePKP	00	26.60	1.2			
	1.1s	322.60nm						1.4s	121.00nm				EGRA	160.77	2	ePKP	00	27.20	1.4				
		i		00	19.00								GUD	161.87	12	ePKP	00	28.60	1.4				
		e		00	28.80								EPLA	161.98	17	ePKP	00	28.00	0.8				
		e		02	15.40								EROQ	162.15	1	ePKP	00	28.00	0.7				
JMB	150.93	318	ePKP	00	12.00	-1.5							LIC	162.52	161	PKP	00	28.76	0.3				
DRA	150.94	324	ePKP	00	20.00	6.6X	PTJ	153.93	335	ePKP	00	17.10	-0.6	TOL	162.63	12	ePKP	00	29.00	1.2			
KHL	150.95	309	ePKP	00	13.00	-0.8	KNT	153.93	319	ePKPc	00	15.94	-1.8			ePKP	01	20.00					
MOX	151.04	346	iPKPc	00	13.20	-0.2									ePP	05	05.00						
	1.3s	92.00nm					ZAG	153.99	335	iPKPc	00	17.10	-0.5	KIC	162.73	162	PKPc	00					

ECOG 165.24 13 ePKP 00 30.30 -0.2	CHJJ 30.48 229 P 47 09.00 0.5	RSSD 52.37 65 eP 50 07.00 -0.8
AFC 165.27 13 ePKP 00 30.60 0.1	IIDJ 31.39 230 P 47 16.80 0.3	1.1s 37.27nm 5.2mb
EJIF 165.51 20 ePKP 00 31.90 1.4	SNY 32.28 254 eP 47 24.20 0.0	CLC 52.56 82 eP 50 09.00 -0.1
MAL 165.56 17 iPKPd 00 31.00 0.5	YKA 35.18 52 eP 47 47.80 -1.3	GYA 52.84 258 P 50 11.40 0.0
PLAT 165.72 22 ePKP 00 33.50 2.7	0.9s 6.60nm 4.5mb	N 17s 1.50um
AVE 167.46 33 iPKPd 00 33.80 1.7	DL2 35.50 253 eP 47 53.50 1.5	E 17s 2.10um
	1.0s 100.00nm 5.6mb	S 57 40.00
IFR 168.28 24 iPKPc 00 34.50 1.6	BJI 37.21 260 eP 48 06.50 0.1	SS 57 47.00
	1.0s 71.00nm 5.4mb	MSU 53.03 76 P 50 13.60 0.8
TIO 169.35 40 iPKP 00 34.50 0.9	Z 12s 2.11um 5.2mszX	SBB 53.35 83 eP 50 13.00 -2.0
	N 10s 2.07um	GSC 53.36 82 eP 50 15.00 -0.1
S.D. = 1.0 on 384 of 437 obs.	eS 53 54.00	MWC 53.61 84 eP 50 17.00 -0.1
? APR 18, 1991 10h 12m 08.33±8.65s	HHC 38.83 265 P 48 21.10 1.0	AKU 53.81 3 iP 50 21.10 3.3X
14.223 N ±70.0km 61.007 W ±23.5km	Z 11s 3.20um 5.4mszX	1.0s 24.00nm 5.2mb
DEPTH = 33.0km (normal)	S 54 19.00	KAF 53.83 338 iP 50 16.70 -1.3
WINDWARD ISLANDS (95)	BTO 39.77 266 eP 48 28.00 0.0	0.9s 43.90nm 5.5mb
ML 2.9 (FDF).	N 14s 1.80um	PV09 54.48 73 eP 50 23.30 -0.2
	E 13s 2.30um	TPC 54.69 82 eP 50 25.00 0.2
	ePP 48 34.00	PLM 54.90 83 eP 50 26.00 -0.6
BIM 0.30 348 iPc 12 15.46 -0.6	eS 54 32.00	GOL 55.27 70 P 50 29.60 0.3
	S 48 28.40 0.4	1.5s 27.52nm 5.1mb
MVM 0.35 18 iPc 12 16.83 0.1	TIA 39.79 255 eP 48 28.40 0.4	GLD 55.30 70 ePd 50 29.90 0.5
FDF 0.53 345 iPd 12 18.61 -0.7	Z 16s 1.50um	BAR 55.54 84 eP 50 33.00 2.0
0.1s 3.70nm	N 15s 1.80um	NUR 55.62 339 iP 50 30.40 -0.7
	E 15s 1.50um	0.9s 42.20nm 5.5mb
CRM 0.53 10 iPc 12 19.30 -0.1	PGC 40.03 75 eP 48 32.00 2.1	KMI 55.85 261 P 50 33.00 -0.6
	TIY 40.84 261 Pd 48 38.00 1.3	1.0s 60.00nm 5.6mb
BBL 1.37 341 eP 12 32.00 0.7	Z 14s 2.14um 5.2mszX	GLA 56.14 82 eP 50 36.00 0.7
DEG 2.08 359 eP 12 42.00 0.4	N 11s 1.98um	SCH 57.15 34 ePd 50 40.90 -1.4
	S 54 50.00	0.9s 50.00nm 5.5mb
SEG 2.22 348 eP 12 48.00 4.5X	GMW 41.13 76 P 48 41.20 2.3	NAO 57.36 346 P 50 42.20 -1.4
S.D. = 0.7 on 6 of 7 obs.	PNT 41.37 72 eP 48 42.00 1.1	0.9s 57.80nm 5.6mb
	1.0s 22.00nm 4.8mb	UPP 57.39 342 iP 50 43.00 -0.8
APR 18, 1991 10h 40m 53.88±0.18s	EDM 41.50 63 ePc 48 42.50 0.6	i 50 56.70 50kmX
60.757 N ±4.4km 166.975 E ±2.8km	RMW 41.66 75 P 48 44.60 1.2	HFS 57.68 345 eP 50 44.20 -1.7
DEPTH = 11.7km (8 depth phases)	BMW 41.69 77 P 48 45.10 1.5	0.9s 35.20nm 5.4mb
5.4mb (71 obs.) 4.9msz (5 obs.)	SSE 42.15 246 Pd 48 47.50 0.1	Z 15s 0.38um 4.6mszX
EASTERN SIBERIA (671)	1.0s 37.00nm 5.1mb	LR 15 58.00
	Z 20s 1.38um 4.8msz	QIZ 57.69 250 eP 50 47.00 0.6
	N 14s 1.07um	N 16s 0.80um
SMY 8.94 151 P 43 03.60 -2.1	S 55 08.00	E 16s 1.40um
ANM 13.21 61 eP 44 02.90 -0.7	LON 42.16 76 P 48 48.20 0.7	eS 58 48.00
TTA 17.44 67 eP 44 57.50 -0.8	NJ2 42.40 250 Pd 48 50.20 0.7	OBN 57.99 329 iP 50 49.50 1.5
1.2s 104.30nm 4.8mb	1.0s 30.00nm 5.0mb	1.5snm 8.6mb X
YAK 17.73 290 iP 45 02.80 1.0	Z 18s 1.20um 4.8msz	Z 16s 3.00um 5.5mszX
ePP 45 16.00	N 15s 1.20um	N 16s 2.40um
ePPP 45 34.00	E 17s 5.00um	E 18s 0.60um
eS 48 26.00	PP 48 59.00	i 50 55.00 18km
iSS 48 54.00	S 55 12.50	e 51 18.00
eScS 56 24.00	DAG 42.68 2 eP 48 51.00 -0.2	LR 19 16.00
ePSP 57 06.00	0.8s 32.09nm 5.1mb	ANMO 58.61 74 ePd 50 53.10 0.2
SDN 17.92 93 P 45 09.40 5.3X	NEW 43.28 71 eP 48 56.30 -0.3	1.0s 11.25nm 4.9mb
1.2s 272.73nm 5.3mb	1.2s 29.36nm 4.9mb	GUN 61.78 277 P 51 13.60 -1.3
SVW 18.02 72 eP 45 06.90 1.5	ePcP 50 45.90	MUD 61.82 346 iPd 51 15.90 1.5
IMA 18.15 56 ePc 45 09.10 2.0	FFC 45.22 55 iPc 49 11.80 -0.3	1.1s 36.00nm 5.5mb
1.2s 123.60nm 4.9mb	1.3s 63.00nm 5.4mb	KKN 62.17 278 P 51 16.20 -1.2
PDB 19.10 76 P 45 28.70 10.2X	GTA 45.69 274 P 49 16.50 0.3	0.8s 20.00nm 5.4mb
RSO 19.56 73 eP 45 24.50 0.2	1.0s 20.00nm 5.0mb	PKI 62.29 277 P 51 17.60 -0.7
FBA 20.70 59 P 45 36.00 -0.1	Z 13s 2.50um 5.3mszX	GKN 62.31 278 P 51 16.80 -1.4
pP 45 39.00 11km	E 14s 3.10um	1.2s 65.00nm 5.7mb
SLKM 20.73 72 eP 45 35.00 -1.3	PP 49 30.10	BSD 62.37 342 iP 51 09.20 -0.9X
PMR 20.89 68 eP 45 37.20 -0.7	WHN 45.76 253 eP 49 15.00 -1.6	1.0s 33.00nm 5.5mb
1.7s 118.20nm 5.0mb	Z 16s 1.30um 5.0mszX	MEO 62.39 68 e(P) 51 17.50 -1.0
TOA 22.07 66 ePc 45 51.80 1.8	N 17s 1.90um	DMN 62.41 278 P 51 17.40 -1.6
KLU 22.38 67 P 45 54.30 1.2	E 17s 1.70um	TUL 62.71 65 ePc 51 19.00 -1.6
BALM 24.16 67 eP 46 11.00 0.6	LBFM 46.14 81 P 49 20.80 1.0	1.2s 36.30nm 5.4mb
INK 25.67 48 ePc 46 24.00 -0.6	LZH 46.32 268 iPd 49 21.70 0.5	CHG 63.05 260 ePc 51 22.00 -1.0
1.0s 88.00nm 5.4mb	1.5s 99.00nm 5.6mb	1.0s 44.50nm 5.6mb
MDJ 27.33 251 eP 46 39.00 -1.1	E 15s 2.22um	FVM 63.30 60 P 51 23.00 -1.5
Z 15s 2.60um 4.9mszX	KEV 46.70 342 eP 49 26.00 2.4	pP 51 26.50 11km
N 15s 3.60um	MIN 47.05 82 ePd 49 27.20 0.3	CBM 63.78 39 e(P) 51 24.80 -2.7
E 15s 4.60um	LRM 47.24 70 eP 49 28.50 0.0	EKA 63.99 354 Pd 51 28.40 -0.3
SIT 29.19 71 e(P) 46 59.30 2.5	ORV 47.71 82 e(P) 49 31.60 -0.4	0.9s 53.00nm 5.7mb
NIIJ 29.42 230 P 46 59.40 0.4	WMO 48.15 287 eP 49 36.00 0.6	OLY 64.95 62 P 51 33.50 -1.8
CN2 29.89 254 P 47 02.60 -0.6	Z 18s 1.50um 5.0msz	KSP 66.28 340 eP 51 43.00 -0.6
1.0s 20.00nm 4.9mb	eS 56 26.00	1.1s 29.00nm 5.4mb
Z 15s 6.00um 5.4mszX	CMB 49.44 83 ePd 49 45.70 0.3	ic 51 45.20 7km
N 13s 2.50um	BONR 50.52 81 P 49 54.00 0.0	CLL 66.35 343 eP 51 42.00 -1.9
E 13s 1.30um	CD2 50.55 264 eP 49 53.20 -0.7	i 51 45.40 11km
ePP 47 11.00	1.0s 35.00nm 5.3mb	WTS 66.48 347 iPd 51 44.80 0.1
eS 52 00.00	FR1 50.60 83 ePd 49 54.30 0.2	1.0s 36.00nm 5.5mb
KAKJ 29.91 227 eP 47 04.20 0.8	BW06 50.91 70 iPd 49 56.30 -0.5	BRG 66.63 342 iP 51 47.00 1.2
MAT 30.34 230 iPc 47 07.00 -0.2	1.3s 18.72nm 4.9mb	1.2s 22.00nm 5.2mb
1.0s 111.00nm 5.7mb	TNP 50.94 80 ePd 49 56.80 -0.3	PWLA 66.86 60 P 51 46.10 -1.3
Z 20s 1.42um 4.6msz	1.0s 15.33nm 4.9mb	SPC 67.16 337 eP 51 48.70 -0.7
eS 52 24.00	iPcP 51 13.70	e 09 26.00
MTMJ 30.45 231 eP 47 08.80 0.5	ISA 52.26 83 eP 50 06.00 -0.9	MOX 67.19 343 eP 51 38.50 -10.9X

TSM	67.32	235	ePc	51	50.90	0.4		1.1s	56.15nm	5.6mb	KKN	62.11	277	P	08	53.00	-1.0					
PRU	67.39	341	eP	51	45.50	-5.1X	PYM	73.05	348	P	52	24.29	-0.9	PKI	62.23	277	P	08	54.00	-1.0		
	1.3s	30.70nm			5.3mb		SSB	73.36	347	P	52	26.41	-0.5	GKN	62.24	278	P	08	54.00	-0.9		
Z	14s	1.00um			5.2MszX		LBL	73.54	348	P	52	28.63	0.8	TUL	62.72	65	ePc	08	55.70	-2.0		
N	16s	0.60um					RJF	73.64	349	eP	52	28.30	-0.1		1.4s	21.30nm			5.1mb			
E	16s	0.90um						1.2s	38.70nm	5.3mb			Z	21s	0.86um			4.9Msz				
	e		51	52.00	21km		CAF	73.96	349	eP	52	30.80	0.4		LR	14	30.00					
ENN	67.79	347	iPc	51	55.00	1.9		1.2s	77.35nm	5.6mb	CHG	63.01	260	eP	09	00.00	0.2					
	1.6s	175.00nm			6.0mb		LFF	74.07	350	eP	52	31.10	0.2		1.2s	36.72nm			5.4mb			
NAV	67.81	53	P	51	51.20	-2.3		1.0s	62.00nm	5.6mb	EKA	63.90	354	Pc	09	04.80	-0.4					
MEM	67.94	347	iPd	51	53.79	-0.2	HYB	74.21	277	eP	52	31.00	-1.2		0.8s	11.00nm			5.0mb			
BLA	68.04	53	eP	51	52.90	-2.1	LPO	74.28	350	eP	52	32.40	0.2	KSP	66.18	340	iPd	09	19.70	-0.3		
	0.9s	7.02nm			4.8mb			1.0s	32.00nm	5.3mb	CLL	66.25	342	eP	09	20.00	-0.4					
GRF	68.18	343	iPd	51	55.80	0.2	POO	75.53	282	iP	52	37.70	-2.1	BRG	66.53	342	eP	09	22.40	0.2		
Z	20s	0.80um			4.9Msz		EPF	76.00	350	eP	52	41.90	-0.2		0.9s	12.00nm			5.0mb			
	e		51	58.30	8km			1.2s	53.55nm	5.5mb	MOX	67.10	343	ePd	09	26.40	0.6					
SNF	68.21	348	P	51	57.90	2.2	MLS	76.00	349	P	52	42.26	0.2	PRU	67.30	341	eP	09	27.40	0.3		
KHC	68.38	342	iP	51	59.40	2.5	TOL	79.45	353	iPd	53	05.00	3.9X	MEM	67.84	347	Pd	09	31.00	0.6		
	Z	17s	0.80um		5.0MszX			1.1s	101.27nm	5.7mb	KHC	68.28	341	iPd	09	33.50	0.2					
	N	16s	0.50um				KOD	80.91	275	eP	53	09.40	-0.3		1.2s	7.00nm			4.6mb			
	E	16s	1.00um				QIS	84.00	206	eP	53	24.80	-0.2	ZST	68.60	339	iP	09	36.30	1.1		
PSZ	68.45	337	eP	51	59.40	2.1	RMQ	88.19	196	iPd	53	45.70	0.2	QUE	68.70	294	eP	09	36.60	0.2		
WET	68.47	342	eP	51	57.50	0.1		0.6s	16.00nm	5.5mb	CDF	69.86	346	eP	09	43.00	0.0					
ABH	68.47	346	eP	51	58.97	1.5	ASPA	88.31	210	iPc	53	46.30	0.2		1.0s	14.00nm			5.0mb			
DOU	68.59	348	Pc	52	00.30	2.2		0.9s	15.30nm	5.3mb	FLN	70.27	351	eP	09	45.00	-0.4					
ZST	68.70	339	eP	51	58.50	-0.3	BRS	88.59	193	i(PKP)	53	49.00	1.6	FEL	70.29	345	eP	09	45.71	0.0		
QUE	68.79	294	eP	52	00.40	0.6	CER	145.50	308	iPKPd	00	34.00	1.2	KBA	70.31	341	eP	09	46.50	0.6		
VRI	68.93	331	ePd	52	02.00	1.7		0.8s	37.50nm			1.2s	20.00nm					5.1mb				
BUD	69.03	337	e(P)	52	03.00	2.2	S.D. = 1.1 on 173 of 180 obs.															
GWf	69.36	346	P	52	01.94	-0.9	-----															
MLR	69.47	332	ePc	52	04.50	0.8	APR 18, 1991 10h 58m 34.06± 0.35s															
	e		09	40.00			60.842 N ± 7.4km 166.867 E ± 4.3km															
BHG	69.86	342	iPc	52	08.40	2.5	DEPTH = 33.0km (normal)															
	1.1s	43.00nm			5.5mb		5.0mb (41 obs.) 4.9Msz (1 obs.)															
CMP	69.89	332	ePc	52	09.00	2.9	EASTERN SIBERIA (671)															
WLS	69.94	346	P	52	05.82	-0.6	ANM	13.21	62	eP	01	41.80	0.1	HAU	70.37	346	eP	09	46.00	-0.1		
CDF	69.95	346	P	52	05.71	-0.9	YAK	17.65	290	eP	02	40.90	2.3	LDF	70.41	351	eP	09	45.90	-0.4		
PRM	69.99	56	P	52	05.80	-1.1								1.0s	16.00nm			5.0mb				
ECH	70.16	346	P	52	06.89	-0.9								1.0s	24.00nm			5.2mb				
JSC	70.27	55	P	52	07.50	-1.1	SVW	18.05	73	eP	02	47.50	3.9X	LOR	71.37	348	eP	09	52.00	-0.1		
VITF	70.30	347	P	52	07.92	-0.6	IMA	18.14	56	ePc	02	45.80	1.0		1.0s	32.00nm			5.3mb			
FLN	70.37	351	eP	52	08.20	-0.7		1.3s	33.50nm	4.3mb	SSF	71.61	348	eP	09	53.30	-0.2					
	1.1s	73.25nm			5.7mb		FBA	20.71	59	ePc	03	13.80	0.3		1.1s	22.00nm			5.1mb			
FEL	70.39	345	P	52	07.95	-1.3		1.2s	50.50nm	4.8mb	LBF	71.64	348	eP	09	53.40	-0.4					
KBA	70.41	341	iPc	52	10.20	0.7	PMR	20.90	69	eP	03	16.60	1.1	AVF	71.89	348	eP	09	55.20	0.0		
	1.2s	49.40nm			5.5mb		TOA	22.09	66	ePc	03	28.20	0.7		1.0s	30.00nm			5.3mb			
	i		52	12.30	7km		INK	25.65	48	eP	04	02.00	0.2	SMF	71.99	348	eP	09	55.50	-0.3		
SLE	70.44	345	ePc	52	09.00	-0.4		0.8s	22.00nm	4.8mb		1.1s	24.40nm					5.1mb				
HAU	70.46	346	eP	52	09.20	-0.4	CN2	29.86	254	eP	04	39.40	-0.8	BGF	72.17	348	eP	09	56.80	-0.1		
	1.1s	43.95nm			5.5mb		MAT	30.35	230	eP	04	45.00	0.4		1.0s	22.00nm			5.1mb			
LDF	70.51	351	eP	52	09.20	-0.6		1.1s	26.58nm	5.0mb	MFF	72.39	351	eP	09	58.60	0.4					
	1.0s	46.00nm			5.6mb		SNY	32.25	254	Pc	05	01.00	-0.2		0.9s	8.20nm			4.7mb			
MOF	70.52	346	P	52	07.80	-2.3		1.6s	55.00nm	5.2mb	TCF	72.50	349	eP	09	58.70	-0.2					
BSF	70.58	346	P	52	09.33	-1.1	YKA	35.17	52	eP	05	25.30	-0.9		1.1s	22.00nm			5.1mb			
GRR	70.77	351	eP	52	11.10	-0.3		0.7s	8.00nm	4.8mb	MAF	72.53	349	eP	09	59.20	0.2					
	1.0s	74.00nm			5.8mb		BJI	37.17	259	eP	05	44.00	0.7	LSF	72.60	349	eP	09	59.60	0.2		
LPF	71.13	352	eP	52	13.40	-0.2	HHC	38.78	265	eP	05	58.70	1.7		1.0s	20.00nm			5.1mb			
	1.1s	80.60nm			5.8mb		BTO	39.73	266	eP	06	05.20	0.3	LPL	72.77	346	eP	10	01.40	0.7		
LOR	71.46	348	eP	52	14.90	-0.8	TIY	40.80	261	eP	06	15.00	1.4		1.1s	12.20nm			4.8mb			
	0.9s	64.00nm			5.7mb		PNT	41.39	72	eP	06	19.00	0.7	LPG	72.79	345	eP	10	01.80	0.9		
GRC	71.52	349	P	52	16.12	0.2		0.7s	6.00nm	4.4mb		1.1s	17.10nm					5.0mb				
VDL	71.56	344	ePc	52	16.70	0.2	EDM	41.51	63	eP	06	20.00	0.8	RJF	73.54	349	eP	10	05.20	0.3		
SSF	71.70	348	eP	52	16.50	-0.6	FFC	45.21	55	iPc	06	48.90	-0.3	CAF	73.87	349	eP	10	07.60	0.8		
	1.2s	68.45nm			5.6mb			1.3s	46.00nm	5.2mb		1.0s	24.00nm					5.1mb				
LBF	71.73	348	eP	52	16.30	-1.0	XAN	45.44	261	eP	06	51.00	-0.3	LFF	73.97	350	eP	10	08.00	0.6		
	1.0s	26.00nm			5.3mb		GTA	45.64	274	iPc	06	53.50	0.6		1.0s	24.00nm			5.1mb			
AVF	71.99	348	eP	52	18.30	-0.4		1.2s	20.00nm	4.9mb	LPO	74.19	349	eP	10	09.30	0.6					
	1.0s	76.00nm			5.7mb				PP	06	56.60			1.0s	22.00nm			5.1mb				
SMF	72.08	348	eP	52	18.80	-0.5	LZH	46.27	267	iPc	06	59.00	1.0	POO	75.46	282	eP	10	13.50	-2.9		
	1.0s	34.00nm			5.4mb			1.5s	57.00nm	5.3mb	EPF	75.90	350	eP	10	18.60	0.0					
DIX	72.23	345	ePc	52	20.90	0.3	N	15s	0.68um			1.0s	14.00nm					4.9mb				
BGF	72.27	349	eP	52	20.00	-0.4			PP	07	12.00			77.97	276	Pc	10	29.60	-0.7			
	1.1s	43.95nm			5.5mb				SP	07	17.00			1.1s	13.40nm			4.9mb				
SNG	72.33	253	eP	52	21.70	0.5	WMO	48.07	287	Pd	07	13.00	1.0	KOD	80.86	274	eP	10	45.90	-0.4		
MFF	72.49	351	eP	52	21.70	0.0			PP	07	20.40			S.D. = 0.8 on 74 of 75 obs.								
	1.1s	39.05nm			5.4mb		CD2	50.50	263	eP	07	30.40	-0.3	-----								
TCF	72.60	349	eP	52	22.00	-0.4	KAF	53.73	338	iP	07	53.70	-0.7	? APR 18, 1991 11h 28m 43.44± 1.05s								
	1.1s	56.15nm			5.6mb			0.8s	11.00nm	4.9mb			43.060 N ± 12.5km 0.720 W ± 9.1km									
MAF	72.63	349	eP	52	22.40	-0.2	NUR	55.52	338	iP	08	07.20	-0.3	DEPTH = 10.0km (geophysicist)								
	1.1s	43.95nm			5.5mb			1.0s	24.00nm	5.2mb			PYRENEES (378)									
LSF	72.70	349	eP	52	22.60	-0.4	NB2	57.01	346	P	08	17.10	-1.2	MD 1.0 (STR).								
	1.1s	68.35nm			5.6mb			1.0s	28.10nm	5.2mb												
AGO	72.74	348	P	52	23.10	-0.1	SCH	57.11	34	eP	08	18.00	-1.1	ATE	0.03	26	Pg	28	44.56	-0.9		
PLDF	72.77	348	P																			

MADF 0.11 320 Sg 28 47.96
Pg 28 46.07 -0.3
Sg 28 47.94
S.D. = 0.5 on 4 of 4 obs.

* APR 18, 1991 11h 56m 54.16 ± 0.71s
60.879 N ± 18.5km 166.939 E ± 8.6km
DEPTH = 33.0km (normal)
4.5mb (9 obs.)
EASTERN SIBERIA (671)

YAK 17.67 290 eP 01 00.50 1.5
eS 06 25.00
IMA 18.09 56 ePc 01 06.10 1.8
1.0s 7.60nm 3.8mb
FBA 20.66 59 eP 01 32.90 -0.2
INK 25.60 48 ePd 02 20.70 -0.7
YKA 35.12 52 eP 03 45.10 -0.8
0.7s 2.20nm 4.2mb
BJI 37.21 260 eP 04 03.00 -0.7
PNT 41.35 72 eP 04 39.00 1.0
0.4s 2.00nm 4.2mb
FFC 45.16 55 eP 05 09.00 0.1
1.7s 35.00nm 5.0mb
GTA 45.67 274 P 05 14.90 1.6
1.0s 10.00nm 4.7mb
LZH 46.31 267 Pc 05 18.50 0.1
1.0s 18.00nm 5.0mb
PP 05 23.50
WMO 48.10 287 P 05 32.50 0.2
NB2 56.98 346 P 06 37.00 -1.2
0.8s 5.10nm 4.6mb
HFS 57.56 345 eP 06 41.10 -1.1
0.8s 6.30nm 4.7mb
GUN 61.75 277 P 07 00.00 -11.9X
CHG 63.05 260 eP 07 18.90 -1.3
WB2 84.72 211 iPc 09 25.50 -0.2
1.4s 1.70nm 4.0mb
S.D. = 1.1 on 15 of 16 obs.

APR 18, 1991 11h 56m 55.96 ± 0.30s
39.232 N ± 3.2km 26.553 E ± 2.2km
DEPTH = 5.7 ± 1.6 km
4.4mb (3 obs.)

TURKEY (366)
ML 4.0 (ATH). MD 4.0 (ISK).

PRK 0.22 274 iP 57 00.10 -0.4
EZN 0.62 344 iPg 57 08.30 0.0
IZM 1.00 146 iPg 57 15.70 0.4
KGT 1.35 25 iPn 57 21.90 0.7
EDC 1.50 42 iPn 57 24.00 0.5
BNT 1.54 43 iPn 57 24.30 0.3
DST 1.65 76 iPn 57 25.50 -0.2
ALN 1.71 347 iPd 57 27.16 0.7
eS 57 50.72
KCT 1.72 53 ePn 57 25.80 -0.9
RDO 2.06 338 iPbd 57 32.00 0.4
OUR 2.27 300 ePd 57 34.64 0.1
eS 58 05.72
PAIG 2.33 288 iPc 57 35.17 -0.2
iS 58 12.52
CTT 2.39 36 iPn 57 36.30 -0.1
KHL 2.49 110 iPn 57 38.90 1.1
YER 2.50 146 iPn 57 37.10 -0.8
YLV 2.55 58 iPn 57 37.80 -0.8
ATH 2.55 241 ePb 57 42.60 4.0X
ISK 2.65 46 iPn 57 39.30 -0.7
ITU 2.66 44 ePn 57 39.00 -1.1
iSg 58 22.00
GBZT 2.71 54 eP 57 47.50 6.6X
DMK 2.74 19 iPn 57 41.00 -0.4
ALT 2.77 93 iPn 57 42.00 0.1
RZN 2.83 331 iPd 57 43.00 0.3
HRT 2.87 55 ePn 57 42.80 -0.4
SOH 2.92 304 ePc 57 44.08 0.1
SRS 2.95 311 ePd 57 43.92 -0.3
eS 58 25.60
GPA 3.08 69 iPn 57 46.20 0.1
MMB 3.19 318 iPd 57 47.00 -0.7
PLD 3.20 334 iP 57 48.00 0.3
JMB 3.23 0 eP 57 50.00 1.8
LIT 3.25 287 ePc 57 48.20 -0.4
iS 58 29.72
AGG 3.29 268 ePd 57 48.44 -0.7
KNT 3.40 306 iPd 57 50.88 0.2
GRG 3.62 300 iPc 57 54.44 0.6

ELL 3.63 132 ePn 57 58.40 4.4X
BCK 3.63 118 iPn 57 53.80 -0.2
VAY 3.69 306 iPn 57 55.30 0.5
PGB 3.78 332 iP 57 56.00 -0.1
KZN 3.84 288 ePn 57 56.70 -0.3
NPS 4.03 191 ePb 58 09.80 10.2X
PVL 4.09 347 eP 58 00.00 -0.3
VTS 4.21 324 iP 58 03.00 0.8
PSN 4.61 15 eP 58 07.00 -0.8
SKO 4.76 307 ePn 58 02.50 -7.5X
i 58 10.00
BBTK 4.84 81 ePn 58 13.00 1.8
e 58 29.00
KAS 5.91 67 eP 58 43.50 17.2X
CFR 6.07 11 eP 58 27.00 -1.3
CMP 6.14 350 ePc 58 28.00 -1.4
MLR 6.27 356 ePd 58 31.00 -0.4
VRI 6.64 1 ePd 58 37.00 0.6
BRG 14.63 327 e(P) 00 34.20 8.9X
0.9s 12.00nm 4.5mb
NUR 21.33 357 eP 01 46.00 0.3
HFS 22.44 343 eP 01 57.20 0.5
1.4s 25.80nm 4.5mb
NB2 23.82 341 P 02 11.80 1.5
0.7s 4.50nm 4.2mb
S.D. = 0.7 on 47 of 54 obs.

% APR 18, 1991 12h 21m 46.76 ± 2.70s
39.171 N ± 11.4km 26.234 E ± 24.4km
DEPTH = 28.6 ± 8.7 km

TURKEY (366)
MD 3.4 (ISK).

EZN 0.66 6 iPg 21 59.60 -0.1
eSg 22 11.00
IZM 1.11 134 iPn 22 06.70 0.2
KGT 1.52 32 iPn 22 13.30 1.0
EDC 1.72 46 ePn 22 15.50 0.3
BNT 1.76 47 ePn 22 15.30 -0.4
DST 1.91 76 ePn 22 17.00 -0.9
YLV 2.79 59 ePn 22 31.30 0.8
DMK 2.89 23 ePn 22 31.00 -0.8
S.D. = 0.9 on 8 of 8 obs.

APR 18, 1991 12h 54m 42.70 ± 0.67s
39.254 N ± 5.5km 26.577 E ± 6.2km
DEPTH = 2.2 ± 3.5 km

TURKEY (366)
MD 3.6 (ISK).

EZN 0.60 341 iPg 54 54.60 -0.1
IZM 1.01 148 iPg 55 02.20 -0.4
eSg 55 16.20
KGT 1.32 25 iPn 55 08.30 0.5
EDC 1.47 42 ePn 55 10.00 -0.3
BNT 1.51 43 iPn 55 10.20 -0.6
DST 1.63 77 ePn 55 12.20 -0.3
CTT 2.36 36 ePn 55 22.00 -1.1
KHL 2.48 111 ePn 55 25.00 0.1
YER 2.51 147 ePn 55 25.00 -0.2
YLV 2.52 58 ePn 55 25.30 -0.1
ISK 2.63 46 ePn 55 30.00 3.2X
ITU 2.63 44 ePn 55 33.00 6.2X
iSg 56 08.00
DMK 2.72 19 ePn 55 27.60 -0.6
ALT 2.75 93 ePn 55 33.00 4.2X
RZN 2.82 330 iP 55 30.00 0.3
HRT 2.84 56 ePn 55 30.00 0.0
MMB 3.19 318 eP 55 34.00 -0.8
PGB 3.77 332 eP 55 42.00 -1.1
OHR 4.80 295 ePn 55 46.30 -11.5X
MLR 6.25 356 eP 56 20.00 1.7
S.D. = 0.8 on 16 of 20 obs.

% APR 18, 1991 13h 05m 04.55 ± 1.23s
39.222 N ± 6.8km 26.584 E ± 11.2km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 3.4 (ISK).

EZN 0.64 342 iPg 05 17.00 -0.3
eSg 05 27.00
IZM 0.98 147 iPg 05 23.30 0.1
iSg 05 37.30
KGT 1.35 24 iPn 05 29.80 0.5
EDC 1.49 41 iPn 05 32.00 0.6
BNT 1.53 42 iPn 05 32.20 0.3

DST 1.63 76 ePn 05 33.00 -0.4
CTT 2.39 36 ePn 05 44.00 -0.3
YLV 2.53 57 ePn 05 47.00 0.6
ISK 2.64 45 ePn 05 48.00 0.0
HRT 2.86 55 ePn 05 50.00 -1.0
S.D. = 0.6 on 10 of 10 obs.

APR 18, 1991 13h 16m 00.99 ± 0.42s
3.387 N ± 3.9km 122.235 E ± 4.9km
DEPTH = 613.5 ± 6.6 km
5.3mb (40 obs.)

CELEBES SEA (262)

TSM 4.24 281 iPd 17 32.00 2.6
0.5s 1099.10nm
KKM 6.56 294 ePd 17 47.00 -1.2
i 17 55.00
e 19 10.00
KGM 18.94 266 ePc 19 47.10 1.0
OIZ 19.71 323 eP 19 51.20 -1.9
S 22 57.00
KNA 20.08 161 iPc 19 56.30 -0.2
0.6s 238.00nm 5.9mb
IPM 21.19 274 ePd 20 07.00 0.4
0.8s 153.70nm 5.6mb
SNG 21.85 281 eP 20 12.90 0.4
1.1s 172.15nm 5.6mb
MBL 24.51 185 iPc 20 35.10 -1.1
0.4s 25.00nm 5.2mb
i 26 33.50
NST 24.94 301 eP 20 43.20 3.1X
KHT 25.91 297 iPd 20 48.80 0.2
WRA 26.06 153 P 21 01.00 11.2X
0.6s 36.50nm
WB2 26.06 153 iPc 20 48.60 -1.2
0.5s 286.80nm 6.2mb
i 23 28.00
BDT 26.63 303 eP 20 54.00 -0.8
1.0s 126.50nm 5.5mb
LAT 26.66 112 iPc 20 52.40 -2.7
GYA 27.37 328 P 21 02.00 0.7
CHG 27.46 306 ePd 21 02.00 0.0
0.8s 32.65nm 5.0mb
e 26 42.60
CHTO 27.46 306 iPd 21 02.00 0.0
e 22 37.80
SSE 27.58 358 iPc 21 03.00 0.1
1.0s 24.00nm 4.8mb
PMG 27.90 117 iPc 21 04.80 -1.0
0.8s 134.33nm 5.6mb
WHN 28.02 345 Pd 21 08.50 1.8
0.7s 20.00nm 4.9mb
KMI 28.62 321 Pc 21 13.50 1.3
NJ2 28.69 354 Pd 21 13.20 0.7
1.0s 100.00nm 5.4mb
ScP 26 46.20
ASPA 29.19 158 iPc 21 16.90 0.0
0.7s 219.40nm 5.9mb
iS 25 26.00
iScS 30 40.20
QIS 29.27 145 iPd 21 17.50 -0.1
0.9s 275.00nm 5.9mb
i 26 47.80
e 28 55.00
MEKA 30.04 187 eP 21 24.00 0.0
CD2 32.46 329 eP 21 44.40 0.0
TIA 33.00 352 eP 21 48.70 -0.1
CTA 33.17 136 iPd 21 51.50 1.0
1.0s 80.00nm 5.3mb
COOL 34.09 182 iPc 21 57.50 -0.5
0.3s 11.00nm 5.0mb
BAL 34.21 188 eP 21 58.80 -0.1
KLB 35.04 187 eP 22 05.70 -0.1
0.3s 15.00nm 5.1mb
TIY 35.32 346 Pc 22 08.00 -0.1
MUN 35.63 189 eP 22 11.00 0.4
e 27 10.00
MAT 36.13 22 eP 22 13.00 -1.6
1.2s 45.31nm 5.0mb
NWA0 36.42 187 eP 22 17.90 0.8
QLP 36.61 146 iPc 22 19.40 0.8
0.4s 285.00nm 6.2mb
LZH 36.70 335 eP 22 19.80 0.2
2.0s 36.00nm 4.6mb
BJI 36.90 352 eP 22 20.50 -0.3
1.2s 28.00nm 4.7mb
S 27 24.50

RKG	37.58	187	iPc	22	32.00	5.5X	FBA	86.95	25	eP	27	44.00	1.0	% APR 18, 1991 13h 44m 20.08 ± 1.09s						
	0.4s	41.00nm			5.3mb		TOA	87.78	28	ePc	27	48.20	1.2	39.261 N ± 5.0km 26.501 E ± 10.8km						
SNY	38.29	2	iPc	22	31.60	-0.6	BALM	89.69	29	P	27	56.30	0.4	DEPTH = 10.0km (geophysicist)						
	0.8s	10.00nm			4.4mb		INK	92.11	21	eP	28	07.00	0.3	TURKEY (366)						
		PP	24	06.20			BUL	94.55	250	iPc	28	18.30	-0.6	MD 3.5 (ISK).						
HHC	38.52	347	eP	22	32.40	-1.8		0.9s	13.87nm					EZN	0.58	347	iPg	44	31.50	-0.3
RMO	39.24	141	iPc	22	39.30	-0.8	YKA	101.63	23	ePdiff	28	50.20	0.6	I2M	1.05	145	ePn	44	39.30	-0.6
	0.6s	40.00nm			5.1mb			0.4s	0.20nm					KGT	1.34	27	iPn	44	45.20	0.5
		iPp	23	14.70	162kmX		KIC	126.18	280	PKP	33	57.00	-0.4	EDC	1.51	44	ePn	44	47.10	-0.1
		e	24	28.00			LPB	163.45	143	(PKP)	35	06.00	9.4X	BNT	1.55	45	iPn	44	47.10	-0.6
		iScP	27	24.20			S.D. = 1.0 on 96 of 100 obs.							DST	1.68	78	ePn	44	49.00	-0.7
		eScP	27	24.20										CTT	2.39	37	ePn	45	00.00	0.1
LSA	39.40	315	iP	22	42.30	0.4	* APR 18, 1991 13h 20m 40.59 ± 1.94s							KHL	2.54	111	ePn	45	02.00	-0.1
VSG	39.40	109	eP	22	41.00	-0.6	18.626 S ± 15.2km 174.515 W ± 8.2km							YER	2.55	146	ePn	45	03.00	0.9
SVO	39.47	109	eP	22	42.00	-0.1	DEPTH = 155.8 ± 19.5 km							YLV	2.56	59	ePn	45	03.20	0.8
HNR	39.68	109	eP	22	44.00	0.2	4.9mb (15 obs.)							ISK	2.66	47	ePn	45	04.00	0.2
CN2	40.35	4	eP	22	47.30	-1.4	TONGA ISLANDS (173)							HRT	2.89	56	ePn	45	07.00	0.0
ADE	41.17	159	iPc	22	56.70	1.3								S.D. = 0.6 on 12 of 12 obs.						
	0.7s	575.34nm			6.2mb		VUN	6.70	274	eP	22	18.10	0.4	APR 18, 1991 14h 00m 56.30 ± 0.93s						
GTA	41.23	333	Pd	22	56.70	0.7	DZM	18.18	256	iPc	24	47.10	2.8	51.913 N ± 12.3km 179.580 E ± 6.7km						
	1.0s	10.00nm			4.3mb X		PMO	25.72	86	iP	25	57.60	-0.7	DEPTH = 110.7 ± 8.7 km						
CMS	41.32	149	iPc	22	57.80	1.3		0.8s	25.00nm					4.6mb (8 obs.)						
	0.5s	47.00nm			5.2mb		VAH	25.93	87	iP	25	59.20	-0.9	RAT ISLANDS, ALEUTIAN ISLANDS (6)						
		e	27	43.00				0.8s	30.00nm					ADK	2.31	89	eP	01	33.50	-0.4
MDJ	41.57	8	Pc	22	58.00	-0.3	TPT	25.99	86	iP	26	00.20	-0.5	SMY	3.46	286	eP	01	49.00	-0.2
	0.8s	110.00nm			5.4mb			0.8s	40.00nm					PDB	16.61	51	eP	04	45.00	1.5
GUN	42.37	309	P	23	05.20	-0.2	RUV	26.17	87	iP	26	01.70	-0.7	PMR	19.51	48	eP	05	15.40	-1.4
PKI	42.58	308	P	23	06.60	-0.4		0.8s	45.00nm					IMA	19.54	33	eP	05	18.00	0.8
KKN	42.78	308	P	23	08.20	-0.3	CTA	36.99	261	iP	27	34.80	-1.9	KLU	20.98	49	eP	05	31.50	-0.4
DMN	42.83	308	P	23	08.80	-0.1		0.8s	30.60nm					TOA	20.99	48	eP	05	32.20	0.2
GKN	43.38	308	P	23	13.00	-0.1	WB2	48.13	260	iPc	29	04.60	-2.3	FBA	21.16	40	eP	05	34.00	0.4
BFD	44.56	157	iPc	23	22.10	0.3		0.6s	18.50nm					INK	27.61	36	eP	06	35.00	0.5
	0.6s	48.00nm			5.2mb		WRA	48.14	260	P	29	11.00	4.1X	YKA	35.60	47	eP	07	43.90	-0.4
KOD	44.93	281	iPd	23	25.00	-0.3		0.4s	7.60nm						0.6s	2.70nm				
	0.6s	88.00nm			5.4mb		ASPA	48.17	255	iPd	29	04.50	-2.6X	NUR	66.13	347	eP	11	32.00	-1.1
HYB	45.03	291	iPd	23	25.00	-0.7		0.7s	27.40nm					NB2	67.01	354	P	11	37.60	-1.1
	1.0s	270.00nm			5.7mb			iPp	29	39.50	155kmX				0.7s	2.70nm				
GBA	45.38	286	Pd	23	27.40	-0.9		eS	35	46.50				HFS	67.73	352	eP	11	34.20	-9.0X
	0.7s	116.20nm			5.5mb		KNA	54.08	264	eP	29	49.50	-2.1		0.1s	2.00nm				
TOO	46.12	154	iPc	23	35.10	1.4	SBA	59.97	185	iPd	30	34.10	1.9	GUN	70.72	291	P	12	02.84	0.4
	0.7s	43.00nm			5.1mb		CMB	75.88	41	P	32	18.50	6.9X		0.5s	35.00nm				
CNB	46.15	149	iPd	23	35.10	1.1	ORV	76.13	40	P	32	13.20	0.3	KKN	71.16	291	P	12	05.26	0.4
	0.5s	99.00nm			5.6mb		TNP	77.92	43	P	32	23.50	0.5	PKI	71.25	291	P	12	05.68	0.1
NDI	49.61	305	eP	23	58.00	-1.9		0.7s	1.85nm					GKN	71.37	292	P	12	06.22	0.2
		eS	30	21.00			PDB	79.87	10	P	32	31.40	-1.4	DMN	71.40	291	P	12	07.58	1.2
POO	49.64	291	iPd	23	57.60	-2.7	RSO	80.76	11	P	32	37.10	-0.7		0.4s	17.00nm				
	0.8s	41.79nm			5.0mb		SVW	80.90	9	P	32	38.00	-0.3	WB2	81.71	222	iPc	13	03.10	-0.3
DZM	50.07	122	iPc	24	04.00	0.5		0.9s	12.50nm						0.5s	3.50nm				
WMO	50.53	328	P	24	06.50	-0.1	SLKM	81.27	12	P	32	39.50	-0.7	ASPA	85.21	221	iPd	13	21.70	0.5
TAU	51.36	156	eP	24	12.00	-0.4	MSU	81.46	45	P	32	43.00	1.0		0.6s	4.20nm				
		e	28	15.00			PMR	82.48	12	eP	32	46.50	0.1	GBA	86.74	288	Pd	13	28.10	-0.9
QUE	58.56	303	iPd	25	01.90	-1.0	TTA	82.58	8	P	32	47.20	0.2		0.6s	3.50nm				
	1.0s	605.00nm			5.8mb			0.8s	5.17nm											
		ePPP	28	46.40			ANM	83.23	4	ePc	32	51.30	1.2	S.D. = 0.8 on 20 of 21 obs.						
		eS	32	19.60			PNT	83.29	33	eP	32	51.00	0.1	% APR 18, 1991 14h 17m 21.12 ± 0.41s						
YAK	58.76	4	iP	25	02.50	-0.9		0.6s	3.00nm					38.811 N ± 3.5km 27.612 E ± 4.8km						
		e	27	12.00			BALM	83.49	15	P	32	51.20	-0.6	DEPTH = 10.0km (geophysicist)						
MSZ	62.84	145	P	25	31.00	0.9	PV09	83.50	46	P	32	53.70	1.1	TURKEY (366)						
MMCZ	63.73	145	P	25	35.30	-0.7	TOA	83.55	13	eP	32	52.80	0.8	MD 3.4 (ISK).						
TLC	63.81	145	P	25	35.90	-0.6	ANMO	83.68	50	P	32	54.00	0.6	I2M	0.49	214	iPg	14	30.80	-0.4
THZ	64.25	140	P	25	38.90	-0.4		0.8s	10.26nm						eSg	14	37.80			
LTZ	64.38	141	P	25	40.00	-0.1	BW06	85.37	42	P	33	01.40	-0.3	DST	1.12	45	iPn	14	42.10	0.0
KHZ	64.99	140	P	25	43.30	-0.5	FBA	85.75	11	ePc	33	03.10	0.3	EZN	1.42	316	iPn	14	47.00	0.0
	0.4s	49.00nm			5.3mb			0.8s	44.10nm					EDC	1.55	7	iPn	14	48.70	0.0
MNG	65.38	138	P	25	45.30	-1.0	IMA	85.89	8	ePc	33	04.50	0.9	KCT	1.55	22	ePn	14	48.70	-0.1
PGZ	65.91	138	P	25	48.70	-0.8		1.1s	12.60nm					BNT	1.56	9	iPn	14	49.10	0.1
HBZ	65.98	134	P	25	50.00	0.0	RSSD	89.54	43	P	33	21.80	0.1	KHL	1.58	107	iPn	14	49.50	0.3
	0.5s	110.00nm			5.5mb		INK	91.64	14	eP	33	31.00	0.5	KGT	1.66	352	ePn	14	51.00	0.7
NOZ	66.23	135	P	25	51.40	-0.1	KSP	146.72	347	iPKP	40	06.20	2.8X	YER	1.76	162	iPn	14	52.10	0.3
ANM	79.44	25	ePc	27	07.50	1.7			e	40	43.00			ALT	1.96	82	ePn	14	55.00	0.1
SDN	79.99	34	P	27	08.40	-0.4	CLL	146.85	351	iPKP	40	06.50	2.9X	YLV	2.22	37	ePn	14	58.00	-0.6
TTA	83.24	27	ePc	27	26.50	1.3		0.8s	15.00nm					CTT	2.42	15	ePn	15	01.20	-0.1
	0.7s	7.60nm			4.4mb		BRG	147.13	350	ePKP	40	07.60	3.5X	HRT	2.56	38	ePn	15	03.00	-0.3
SVW	83.25	29	ePc	27	26.80	1.6		1.0s	10.00nm					DMK	3.01	2	ePn	15	09.60	-0.1
PDB	83.85	30	P	27	27.40	-0.8	HAU	150.69	359	ePKP	40	15.80	6.1X	S.D. = 0.3 on 14 of 14 obs.						
BRW	83.93	19	eP	27	30.60	2.3		0.8s	5.35nm					APR 18, 1991 14h 17m 38.97 ± 0.51s						
IMA	84.52	24	iPc	27	32.60	1.1	LOR	151.40	2	ePKP	40	16.20	5.4X	38.815 N ± 4.5km 27.583 E ± 6.2km						
	0.7s	7.70nm			4.4mb		SSF	151.59	3	ePKP	40	19.20	8.1X	DEPTH = 15.9 ± 5.8 km						
OBN	84.74	325	iP	27	32.50	-0.1		0.9s	6.55nm					TURKEY (366)						
	1.2s	*****nm			7.7mb X		SMF	152.02	2	ePKP	40	16.60	4.9X	MD 3.3 (ISK).						
		e	27	53.00				0.6s	7.20nm					I2M	0.49	211	iPg	17	48.20	-0.5
HRI	85.23	303	eP	27																

eSg 17 55.80
 DST 1.13 45 ePn 17 59.50 -0.3
 EZN 1.40 316 ePn 18 04.00 0.2
 EDC 1.55 8 ePn 18 06.00 0.1
 BNT 1.56 10 ePn 18 06.00 -0.1
 KHL 1.60 107 ePn 18 06.50 -0.2
 KGT 1.65 353 ePn 18 08.00 0.6
 YER 1.77 162 ePn 18 09.60 0.5
 ALT 1.99 82 ePn 18 13.00 0.6
 YLV 2.23 38 ePn 18 11.20 -4.7X
 CTT 2.42 15 ePn 18 18.00 -0.5
 ISK 2.52 26 ePn 18 20.00 0.1
 HRT 2.57 38 ePn 18 20.00 -0.7
 S.D. = 0.5 on 12 of 13 obs.

? APR 18, 1991 14h 41m 30.12±5.26s
 31.399 S ±23.1km 68.688 W ±18.9km
 DEPTH = 92.0 ± 49.0 km

SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.13 228 iPd 41 43.50 -0.2
 eS 41 56.00
 ZON 0.15 177 eP 41 44.00 0.3
 eS 41 55.00
 RTLL 0.20 70 iPc 41 43.80 -0.1
 CFA 0.44 118 iPc 41 44.80 -0.1
 eS 41 57.20
 RTBS 0.70 248 ePd 41 47.00 0.0
 RTRS 1.39 331 iPc 41 55.00 0.0
 S 42 15.20
 S.D. = 0.3 on 6 of 6 obs.

% APR 18, 1991 14h 59m 35.14±1.54s
 39.233 N ± 9.4km 26.694 E ±14.4km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 3.3 (ISK).

EZN 0.66 334 iPg 59 47.50 -0.7
 eSg 59 58.00
 IZM 0.95 152 ePn 59 53.80 0.6
 KGT 1.30 21 ePn 59 59.90 0.6
 EDC 1.43 39 ePn 00 01.00 -0.1
 BNT 1.47 40 ePn 00 01.00 -0.6
 DST 1.54 75 ePn 00 00.00 -2.8
 KCT 1.63 51 ePn 00 05.00 1.0
 CTT 2.33 34 ePn 00 15.00 0.9
 YLV 2.45 56 ePn 00 17.00 1.1
 DMK 2.71 17 ePn 00 27.00 7.5X
 S.D. = 1.4 on 9 of 10 obs.

* APR 18, 1991 15h 03m 13.82±1.58s
 39.219 N ± 6.3km 26.375 E ±15.3km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 3.6 (ISK).

EZN 0.61 356 iPg 03 26.00 0.0
 eSg 03 37.50
 IZM 1.07 140 iPg 03 33.30 -0.8
 eSg 03 48.00
 KGT 1.42 30 iPn 03 39.70 0.0
 EDC 1.61 45 ePn 03 42.00 -0.3
 BNT 1.65 46 ePn 03 42.00 -0.9
 DST 1.79 77 ePn 03 44.00 -1.0
 KCT 1.84 55 ePn 03 45.70 0.0
 CTT 2.49 39 ePn 03 54.00 -1.0
 YER 2.57 144 ePn 03 57.00 0.8
 KHL 2.62 109 ePn 03 57.00 0.0
 YLV 2.67 59 ePn 03 58.00 0.3
 ISK 2.76 47 ePn 04 00.00 1.1
 ITU 2.76 46 ePn 04 05.00 6.0X
 iSg 04 39.00
 HRT 2.99 57 ePn 04 04.00 1.8
 S.D. = 0.9 on 13 of 14 obs.

* APR 18, 1991 15h 48m 53.11±0.63s
 29.612 N ±10.5km 52.403 E ± 8.2km
 DEPTH = 33.0km (normol)
 4.1mb (3 obs.)

SOUTHERN IRAN (353)

Felt at Shiroz.

DHR 3.86 212 ePc 49 58.30 6.8X
 TEH 6.17 352 e(P) 50 22.00 -2.4
 RYD 7.10 228 eP 50 38.30 1.0
 KMSA 11.66 220 eP 51 38.30 -2.0

QUE 12.64 84 eP 51 53.70 0.2
 PRNI 15.11 277 eP 52 35.00 9.2X
 MLR 26.13 315 eP 54 28.00 2.0
 GKN 28.25 85 P 54 46.46 1.0
 DMN 28.73 86 P 54 49.60 -0.3
 KKN 28.84 85 P 54 51.20 0.3
 PKI 29.00 86 P 54 52.68 0.2
 GUN 29.34 85 P 54 56.00 0.4
 KHC 35.28 315 eP 55 51.50 4.7X
 HFS 40.03 331 eP 56 27.00 0.6
 0.4s 3.30nm 4.4mb
 NB2 41.55 331 P 56 39.20 0.3
 0.7s 1.70nm 3.9mb
 CHTO 43.53 93 P 56 54.20 -1.4
 1.0s 3.00nm 4.0mb
 S.D. = 1.4 on 13 of 16 obs.

* APR 18, 1991 16h 44m 44.08±0.52s
 39.214 N ± 8.6km 74.076 E ±11.2km
 DEPTH = 33.0km (normol)
 4.3mb (7 obs.)

SOUTHERN XINJIANG, CHINA (321)

QUE 10.74 215 eP 47 18.30 -0.6
 0.7s 21.92nm 5.5mb X
 eS 49 20.20
 NDI 10.82 165 eP 47 22.00 2.2
 eS 49 18.00
 GKN 14.22 139 P 48 04.92 -0.3
 KKN 14.72 137 P 48 10.30 -1.6
 DMN 14.78 138 P 48 12.06 -0.6
 GUN 14.95 135 P 48 15.42 0.4
 PKI 14.96 138 P 48 14.20 -1.0
 HYB 22.07 169 eP 49 41.50 3.6X
 LZH 23.73 88 eP 50 01.00 6.8X
 2.0s 29.00nm 4.5mb
 pP 50 05.00 14kmX
 i 50 17.00

GBA 25.68 172 Pc 50 13.20 0.5
 0.5s 1.50nm 3.8mb
 MLR 35.68 296 eP 51 42.00 0.8
 NUR 37.14 321 eP 51 55.00 1.9
 SOD 38.38 333 eP 52 03.00 -0.4
 KEV 39.24 336 eP 52 15.00 4.4X
 YAK 40.36 37 eP 52 19.60 -0.3
 HFS 42.50 320 eP 52 35.90 -1.6
 0.5s 4.10nm 4.4mb
 NB2 43.74 321 P 52 46.10 -1.5
 0.5s 2.00nm 4.2mb
 INK 70.82 11 eP 55 58.00 -0.8
 FBA 71.17 18 P 56 04.00 3.0
 KIC 77.35 268 (P) 56 36.60 -0.9
 YKA 78.40 4 eP 56 41.90 -0.5
 0.6s 2.70nm 4.4mb
 WRA 81.43 124 P 57 07.00 7.7X
 0.7s 2.40nm 4.3mb
 WB2 81.44 124 eP 57 00.60 1.3
 1.0s 2.50nm 4.2mb
 S.D. = 1.4 on 19 of 23 obs.

% APR 18, 1991 16h 50m 50.47±1.47s
 39.226 N ± 8.1km 26.508 E ±14.0km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 3.1 (ISK).

EZN 0.62 347 iPg 51 02.60 -0.2
 IZM 1.02 144 ePn 51 09.80 0.1
 KGT 1.37 26 ePn 51 16.10 0.6
 EDC 1.53 43 ePn 51 18.50 0.6
 BNT 1.57 44 ePn 51 18.00 -0.4
 DST 1.69 76 ePn 51 20.00 -0.2
 KCT 1.75 54 ePn 51 20.70 -0.4
 S.D. = 0.5 on 7 of 7 obs.

% APR 18, 1991 16h 51m 43.41±1.14s
 38.833 N ± 7.0km 30.357 E ±15.1km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 3.1 (ISK).

ALT 0.29 319 iPg 51 51.00 1.4
 iSg 51 55.00
 KHL 0.83 232 iPg 51 59.00 -0.5
 iSg 52 09.50
 BCK 1.38 172 ePn 52 09.30 0.5
 GPA 1.45 359 ePn 52 10.00 0.3

IZI 1.65 336 ePn 52 12.00 -0.6
 YLV 1.89 337 ePn 52 15.00 -1.1
 S.D. = 1.2 on 6 of 6 obs.

* APR 18, 1991 17h 15m 31.49±1.25s
 36.471 N ±11.7km 68.978 E ±19.2km
 DEPTH = 33.0km (normol)
 3.7mb (3 obs.)

HINDU KUSH REGION (718)

QUE 6.49 196 eP 17 07.20 -0.2
 MAIO 7.65 272 ePn 17 24.00 0.5
 eSn 18 44.00
 HFS 42.09 322 eP 23 21.20 -0.4
 0.5s 0.90nm 3.8mb
 NB2 43.43 323 P 23 31.80 -0.7
 0.6s 0.60nm 3.5mb
 YKA 81.34 2 eP 27 46.40 0.9
 0.9s 1.20nm 3.9mb
 S.D. = 0.9 on 5 of 5 obs.

APR 18, 1991 18h 02m 11.23±0.33s
 45.093 N ± 2.7km 6.973 E ± 3.4km
 DEPTH = 10.0km (geophysicist)

FRANCE (538)

ML 2.5 (GEN).

RSP 0.21 74 P 02 16.18 0.3
 S 02 19.10
 BNI 0.21 259 P 02 16.30 0.3
 eSg 02 19.10
 RRL 0.22 218 P 02 16.31 0.2
 S 02 19.41
 LSD 0.39 19 P 02 18.90 -0.3
 S 02 23.82
 LPG 0.43 339 Pg 02 20.10 -0.1
 Sg 02 25.40
 LPL 0.46 338 Pg 02 20.40 -0.2
 Sg 02 25.60
 PZZ 0.60 171 P 02 22.90 -0.5
 S 02 30.79
 DOI 0.62 162 P 02 23.40 -0.4
 eSg 02 31.00
 STV 0.89 163 P 02 27.97 -0.3
 S 02 39.09
 ORO 0.89 53 P 02 28.20 -0.1
 eSg 02 39.20
 ENR 0.92 160 P 02 28.36 -0.6
 S 02 39.77
 ROB 1.02 141 P 02 31.56 0.9
 PCP 1.25 116 P 02 34.51 0.1
 FIN 1.25 135 P 02 34.77 0.3
 BGF 3.24 298 Pn 03 03.20 0.2
 S.D. = 0.4 on 15 of 15 obs.

* APR 18, 1991 18h 04m 40.34±1.04s
 12.519 S ±22.2km 75.114 W ±14.7km
 DEPTH = 102.5 ± 11.5 km
 4.5mb (3 obs.)

PERU (116)

Felt (III) at Huocho.

NNA 1.77 287 iPd 05 10.60 0.0
 0.5s 42.25nm
 eS 05 32.00
 ARE 5.26 139 eP 05 57.00 -1.3
 ZOBO 7.73 120 P 06 31.60 -0.9
 i 07 07.00
 LPB 7.88 121 eP 06 37.00 2.7
 i 06 56.00
 CCH 9.92 120 P 07 01.90 -0.1
 PPD 24.59 116 eP 09 52.80 0.4
 PDCR 35.12 94 eP 11 25.00 -1.0
 FVM 52.25 345 P 13 42.80 -0.3
 ANMO 55.78 329 P 14 09.30 0.1
 1.0s 5.00nm 4.5mb
 pP 14 38.70 123kmX
 LIC 72.09 79 P 15 55.60 -0.3
 KIC 72.40 79 P 15 57.60 -0.1
 0.7s 12.00nm 4.8mb
 YKA 80.84 343 eP 16 42.90 -0.9
 0.9s 2.90nm 4.1mb
 INK 90.56 342 eP 17 33.00 1.4
 WB2 136.62 222 iPKPc 23 53.00 -0.1
 0.7s 1.40nm
 WRA 136.63 222 PKP 23 53.00 -0.1
 0.9s 1.40nm

18d 18h

GBA 153.24 85 PKP 24 21.00 0.3
0.9s 3.50nm
GKN 155.60 48 PKP 24 25.60 1.7
KKN 156.19 47 PKP 24 22.20 -2.6
PKI 156.41 48 PKP 24 26.40 1.2
S.D. = 1.3 on 19 of 19 obs.

% APR 18, 1991 18h 15m 36.21 ± 0.97s
40.674 N ± 8.1km 29.123 E ± 8.8km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.4 (ISK).

YLV 0.22 119 iPg 15 41.10 0.1
iSg 15 44.60
ISK 0.39 353 iPg 15 44.50 0.2
IZI 0.43 141 iPg 15 45.00 0.0
HRT 0.44 70 iPg 15 45.00 -0.2
eSg 15 52.00
CTT 0.71 312 iPg 15 50.00 -0.2
S.D. = 0.2 on 5 of 5 obs.

APR 18, 1991 19h 24m 04.97 ± 0.43s
40.475 N ± 4.0km 16.719 E ± 3.7km
DEPTH = 20.0 ± 4.8 km
3.4mb (1 obs.)

SOUTHERN ITALY (390)
MD 3.7 (ATH).

ORI 0.46 207 P 24 12.70 -1.6
eSg 24 20.80
BRT 0.55 42 P 24 15.10 -0.7
eSg 24 24.60
BAI 0.65 10 P 24 18.00 0.4
eSg 24 30.00
TDS 0.87 200 P 24 20.30 -0.9
eSg 24 34.20
MGR 0.95 250 P 24 21.60 -1.1
eSg 24 38.60
LCI 0.95 98 P 24 23.30 0.6
eSg 24 38.70
SGO 1.08 275 P 24 27.00 2.2
DUI 2.08 305 P 24 41.30 1.9
eSg 25 08.50
KEK 2.48 107 ePb 24 50.00 5.0X
ATN 2.51 203 P 24 44.50 -0.9
eSn 25 14.10
SDI 2.52 300 P 24 46.50 0.9
HVAR 2.71 356 iPn 24 47.90 -0.3
iSg 25 39.80
AZI 2.90 302 P 24 53.70 2.8
IGT 2.93 108 iPc 24 58.94 7.6X
iS 25 39.78
MNO 2.99 212 P 24 52.20 -0.2
eSn 25 24.90
AQU 3.12 308 P 24 56.40 2.2
OHR 3.16 77 iPn 25 02.90 8.1X
Lg 25 56.90
FNA 3.56 84 ePd 25 00.82 0.4
eS 25 40.14
MNS 3.59 303 P 25 02.10 1.3
VLS 3.78 126 ePb 25 01.70 -1.8
KZN 3.86 91 ePb 25 03.00 -1.7
SKO 3.86 66 ePn 25 06.60 2.0
i 25 16.60
i 25 47.30
i 26 13.00
Lg 26 27.60
FAI 3.98 218 P 25 05.90 -0.4
ARV 4.13 318 Pd 25 08.90 0.5
GRG 4.35 82 iPc 25 11.89 0.4
iS 25 59.10
LIT 4.43 93 ePd 25 12.26 -0.4
eS 26 02.50
VAY 4.51 77 ePn 25 12.60 -1.3
AGG 4.56 107 ePc 25 15.82 1.2
eS 26 05.30
KNT 4.74 80 ePd 25 16.10 -1.0
eS 26 07.18
CRE 4.75 313 P 25 18.10 0.8
VBY 5.14 348 iPnc 25 23.20 0.5
iSn 26 20.20
RIY 5.16 341 iPnc 25 22.20 -0.7
iSn 26 21.80
ZAG 5.37 354 iPn 25 26.00 0.1
PTJ 5.45 354 iPnd 25 26.90 -0.3
eSn 26 34.60

BDI 5.78 310 P 25 32.10 0.2
LJU 5.79 345 iPnd 25 31.50 -0.3
eSn 26 35.00
VOY 5.92 341 ePn 25 32.80 -1.0
eSn 26 38.80
CTI 6.69 328 P 25 42.70 -1.9
FVI 6.75 336 P 25 43.50 -1.9
SAL 6.85 321 P 25 45.10 -1.6
KBA 7.04 341 iPnc 25 48.20 -1.4
i 25 53.90
iPgPg 26 22.20
iSn 27 04.10
i 27 08.00
i 27 10.10
i 27 51.80
OGA 7.60 329 iPc 25 58.00 0.5
BHG 7.75 340 eP 25 58.90 -0.5
KHC 8.94 347 eP 26 13.00 -2.9
e 28 36.00
NB2 20.87 352 P 28 47.60 -0.4
0.6s 1.00nm 3.4mb
GKN 56.25 80 P 33 48.00 1.5
KKN 56.85 80 P 33 51.00 0.1
PKI 57.06 80 P 33 53.40 0.9
GUN 57.23 80 P 33 53.00 -0.7
S.D. = 1.3 on 46 of 49 obs.

APR 18, 1991 19h 53m 55.42 ± 0.37s
60.731 N ± 8.2km 166.923 E ± 4.9km
DEPTH = 13.1km (5 depth phases)
5.1mb (51 obs.)

EASTERN SIBERIA (671)

TTA 17.48 67 P 58 06.50 6.4X
1.0s 23.75nm 4.3mb
YAK 17.72 290 eP 58 05.20 2.2
ePP 58 17.00
ePPP 58 25.00
eS 01 28.00
eSS 01 43.00
BRW 17.81 39 eP 58 06.00 2.0
SVW 18.05 72 eP 58 09.80 2.6
IMA 18.18 56 eP 58 10.20 1.3
1.1s 26.40nm 4.3mb
PDB 19.13 76 P 58 19.50 -0.8
FBA 20.74 59 eP 58 37.70 -0.1
0.9s 24.30nm 4.6mb
TOA 22.11 66 eP 58 52.40 0.7
KLU 22.41 67 P 58 54.00 -0.7
INK 25.70 48 eP 59 26.00 -0.2
pP 59 47.00 95kmX
CN2 29.85 254 eP 00 04.00 -0.2
1.0s 10.00nm 4.6mb
Z 15s 1.20um 4.7mszX
N 13s 0.30um
E 13s 0.30um
MAT 30.30 230 iPc 00 08.70 0.5
1.2s 56.25nm 5.3mb
(S) 05 21.00
YKA 35.22 52 eP 00 49.30 -1.4
0.6s 5.30nm 4.6mb
BJI 37.18 260 eP 01 08.50 1.1
1.0s 27.00nm 5.0mb
HHC 38.80 265 eP 01 22.40 1.2
E 10s 0.20um
BTO 39.75 266 eP 01 30.20 1.1
TIY 40.81 261 eP 01 39.00 1.2
PNT 41.40 72 eP 01 43.00 0.5
EDM 41.53 63 eP 01 44.00 0.5
DAG 42.70 2 eP 01 55.00 2.2
NEW 43.31 71 P 01 58.00 -0.2
FFC 45.26 55 eP 02 13.00 -0.7
0.9s 16.00nm 5.0mb
GTA 45.67 274 eP 02 17.40 0.1
1.2s 10.00nm 4.7mb
Z 20s 0.40um 4.4msz
LZH 46.29 268 iPc 02 22.80 0.5
2.0s 54.00nm 5.2mb
E 15s 0.62um
PP 02 30.80
SP 02 34.80
KEV 46.72 342 eP 02 26.00 1.0
LRM 47.27 70 eP 02 34.10 4.0X
WMO 48.13 287 P 02 37.20 0.6
CD2 50.52 264 eP 02 54.90 -0.1
BW06 50.94 70 P 02 58.00 -0.3

GYA 52.81 258 P 03 13.00 0.5
MSU 53.06 76 P 03 14.00 -0.3
KAF 53.84 338 iP 03 21.50 2.1
0.5s 7.90nm 5.0mb
NUR 55.63 338 iP 03 34.44 1.9
0.8s 19.10nm 5.2mb
NB2 57.13 346 P 03 41.90 -1.5
0.8s 25.60nm 5.3mb
SCH 57.19 34 eP 03 42.00 -1.9
HFS 57.70 345 eP 03 48.50 1.2
0.7s 14.20nm 5.1mb
OBN 58.00 329 iP 03 52.00 2.6
1.0s *****nm 8.2mbX
Z 14s 0.60um 4.9mszX
ALO 58.64 74 eP 03 57.00 2.5
1.0s 3.00nm 4.3mb
GUN 61.76 277 P 04 14.86 -1.2
KKN 62.15 278 P 04 18.18 -0.4
0.6s 6.00nm 5.0mb
PKI 62.27 277 P 04 19.10 -0.4
GKN 62.28 278 P 04 18.06 -1.3
DMN 62.38 278 P 04 20.02 -0.1
CHG 63.02 260 ePc 04 23.60 -0.5
1.0s 14.25nm 5.1mb
FVM 63.34 60 P 04 24.40 -1.6
pP 04 29.20 15km
KSP 66.30 340 eP 04 42.00 -3.0
i 04 47.60 18km
CLL 66.36 342 eP 04 47.00 1.6
1.4s 23.00nm 5.2mb
WTS 66.50 347 eP 04 46.50 0.3
0.8s 8.00nm 4.9mb
WTS 66.50 347 iPd 04 50.00 3.8X
0.8s 23.00nm 5.4mb
BRG 66.64 342 e(P) 04 49.40 2.2
1.1s 10.00nm 4.9mb
MOX 67.21 343 iP 04 54.00 3.2X
PRU 67.41 341 eP 04 55.00 3.0X
ENN 67.81 347 eP 04 55.00 0.5
1.5s 40.00nm 5.4mb
MEM 67.95 347 P 04 55.50 0.1
e 04 58.50 10km
GRF 68.20 343 eP 04 56.80 -0.2
0.8s 5.00nm 4.7mb
e 05 00.50 12km
KHC 68.40 342 iPc 05 01.50 3.2X
1.2s 6.50nm 4.7mb
DOU 68.61 348 Pc 05 02.30 2.8
ZST 68.71 339 eP 05 03.90 3.7X
QUE 68.77 294 eP 05 01.20 0.1
MLR 69.48 332 eP 05 04.00 -1.1
CDF 69.97 346 eP 05 07.00 -1.0
1.0s 12.00nm 5.0mb
FLN 70.39 351 eP 05 09.30 -1.1
1.1s 31.75nm 5.4mb
Z 20s 0.08um 3.9msz
FEL 70.41 345 eP 05 09.95 -0.8
KBA 70.43 341 iPc 05 14.60 3.7X
1.3s 26.10nm 5.2mb
i 05 17.90 11km
HAU 70.48 346 eP 05 10.20 -0.8
1.2s 26.80nm 5.2mb
Z 21s 0.10um 4.0msz
LDF 70.53 351 eP 05 10.10 -1.1
1.0s 18.00nm 5.2mb
BSF 70.60 346 eP 05 10.70 -1.2
1.0s 16.00nm 5.1mb
GRR 70.79 351 eP 05 12.00 -0.8
0.9s 26.20nm 5.4mb
LPF 71.16 351 eP 05 14.40 -0.6
0.8s 16.10nm 5.2mb
LOR 71.48 348 eP 05 15.90 -1.2
0.9s 31.10nm 5.4mb
Z 19s 0.08um 4.0msz
SSF 71.72 348 eP 05 17.50 -1.0
1.2s 34.20nm 5.3mb
LBF 71.75 348 eP 05 17.90 -0.8
0.8s 8.75nm 4.9mb
AVF 72.01 348 eP 05 19.50 -0.7
1.0s 34.00nm 5.4mb
SMF 72.10 348 eP 05 19.70 -1.1
1.2s 26.80nm 5.2mb
BGF 72.29 349 eP 05 21.10 -0.8
0.9s 13.10nm 5.0mb
MFF 72.51 351 eP 05 22.70 -0.4
TCF 72.62 349 eP 05 23.10 -0.7
1.0s 20.00nm 5.1mb

MAF 72.65 349 eP 05 23.50 -0.5
1.4s 34.85nm 5.2mb
LSF 72.72 349 eP 05 23.70 -0.7
1.1s 31.75nm 5.3mb
LPL 72.89 346 eP 05 25.50 -0.2
0.9s 12.30nm 5.0mb
LPG 72.91 346 eP 05 25.70 -0.2
0.9s 17.20nm 5.1mb
CAF 73.98 349 eP 05 31.80 0.0
1.3s 43.30nm 5.3mb
LFF 74.09 350 eP 05 32.10 -0.2
0.7s 12.15nm 5.0mb
HYB 74.19 277 eP 05 32.00 -1.4
LPO 74.30 349 eP 05 33.40 -0.2
1.0s 24.00nm 5.2mb
EPF 76.02 350 eP 05 43.10 -0.4
1.1s 17.10nm 5.0mb
GBA 78.00 276 Pd 05 52.30 -2.5
0.7s 3.00nm 4.5mb
TOL 79.47 353 eP 06 06.50 3.9X
WB2 84.59 211 iPd 06 29.80 0.6
1.1s 1.90nm 4.2mb
WRA 84.59 211 P 06 29.00 -0.3
0.8s 12.00nm 5.2mb
ASPA 88.27 210 iPc 06 47.70 0.5
1.0s 4.20nm 4.7mb
SPA 150.57 180 iPKPc 13 51.30 10.2X
0.8s 16.25nm
S.D. = 1.2 on 82 of 92 obs.

* APR 18, 1991 20h 31m 14.14 ± 1.07s
38.654 N ± 9.8km 20.974 E ± 10.1km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 3.2 (ATH).
VLS 0.56 213 ePb 31 25.60 0.0
IGT 1.01 331 ePc 31 31.84 -1.4
iS 31 49.00
AGG 1.12 70 ePd 31 34.48 -0.7
eS 31 52.60
KEK 1.40 320 ePb 31 40.50 0.8
KZN 1.76 20 ePn 31 42.80 -2.1
LIT 1.86 39 ePc 31 47.34 1.0
eS 32 16.00
FNA 2.15 8 ePd 31 52.00 1.4
eS 32 22.04
OHR 2.46 357 e(Pn) 32 02.30 7.4X
GRG 2.55 25 iPd 31 57.20 1.0
S.D. = 1.5 on 8 of 9 obs.

% APR 19, 1991 00h 30m 56.81 ± 0.39s
31.761 N ± 2.9km 35.839 E ± 4.3km
DEPTH = 10.0km (geophysicist)
DEAD SEA REGION (373)
MASJ 0.11 253 Pc 30 59.52 -0.2
KFNJ 0.17 306 Pd 31 00.60 -0.1
MKRJ 0.27 219 Pd 31 02.75 0.3
SALJ 0.28 332 Pd 31 02.76 0.0
MDSJ 0.37 110 Pc 31 05.19 0.7
BURJ 0.48 356 Pd 31 06.50 -0.1
QTRJ 0.48 162 Pd 31 07.00 0.4
JARJ 0.48 11 Pd 31 06.62 0.0
LISJ 0.60 211 Pd 31 08.86 -0.1
CSTJ 0.96 132 Pc 31 13.93 -1.1
SHMJ 0.97 356 Pd 31 15.42 0.2
JRDJ 1.04 188 Pd 31 16.59 0.0
S.D. = 0.5 on 12 of 12 obs.

% APR 19, 1991 00h 37m 47.23 ± 0.69s
31.222 S ± 12.8km 68.915 W ± 14.1km
DEPTH = 90.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)
RTCB 0.28 160 iPd 38 00.90 0.0
eS 38 12.90
ZON 0.38 148 iPd 38 02.00 0.6
eS 38 13.00
RTLL 0.40 106 iPc 38 01.20 -0.3
RTBS 0.64 226 iPd 38 03.10 -0.2
CFA 0.69 124 iPd 38 03.80 -0.2
eS 38 17.20
RTRS 1.15 336 iPc 38 09.00 0.1
S 38 26.90
S.D. = 0.4 on 6 of 6 obs.

* APR 19, 1991 01h 02m 20.61 ± 2.01s
36.606 N ± 16.4km 70.499 E ± 9.0km
DEPTH = 187.6 ± 25.8 km
3.8mb (4 obs.)
HINDU KUSH REGION (718)
QUE 7.05 206 eP 04 02.60 0.1
eS 05 19.10
NDI 9.72 142 eP 04 38.00 0.8
GKN 14.70 122 P 05 40.04 -0.9
DMN 15.27 122 P 05 48.00 -0.1
KKN 15.28 121 P 05 47.20 -0.9
PKI 15.50 121 P 05 51.54 0.5
GUN 15.62 119 P 05 52.96 0.5
GBA 23.73 163 Pd 07 16.70 -0.2
0.6s 2.20nm 3.9mb
HFS 42.73 322 eP 10 00.20 -0.2
0.4s 1.20nm 3.8mb
NB2 44.05 323 P 10 10.40 -0.7
0.9s 2.80nm 3.8mb
INK 73.87 9 eP 13 37.00 1.2
YKA 81.16 2 eP 14 15.80 0.0
0.4s 0.20nm 3.2mb
S.D. = 0.8 on 12 of 12 obs.

& APR 19, 1991 01h 55m 19.24s
60.500 N 152.996 W
DEPTH = 141.7km
SOUTHERN ALASKA (2)
<AEIC>.
NCT 0.07 28 iPc 55 37.92 0.9
eS 55 52.12
RDW 0.09 101 ePc 55 37.91 0.7
eS 55 52.25
RDN 0.12 83 iPc 55 37.91 0.8
RS2 0.12 107 iPc 55 38.07 0.8
RSO 0.13 107 iPc 55 38.03 0.8
RED 0.14 126 iPc 55 37.94 0.8
eS 55 52.32
REF 0.15 94 iPc 55 37.99 0.7
eS 55 52.88
DFR 0.18 59 iPc 55 38.06 0.9
eS 55 52.56
RDT 0.30 75 iPc 55 38.38 0.9
eS 55 53.62
CKL 0.77 24 iPd 55 40.96 -0.8
eS 55 58.09
BGL 0.82 21 iPd 55 41.50 -0.6
SPU 0.82 34 iPd 55 41.09 -1.0
CRP 0.87 28 ePd 55 41.83 -0.8
NKA 0.90 74 eP 55 43.54 0.9
PDB 0.93 220 iPd 55 42.29 -0.6
iS 55 59.44
NNL 0.96 118 iPc 55 43.55 0.4
NCG 1.00 24 ePd 55 42.79 -0.8
HOM 1.08 141 eP 55 43.49 -0.7
XLV 1.23 148 eP 55 45.15 -0.5
CNPM 1.32 137 iPc 55 46.15 -0.5
eS 56 06.96
SLKM 1.37 88 ePc 55 45.91 -1.3
eS 56 06.72
SVW 1.42 297 iPc 55 45.97 -1.8
SUA 1.46 48 ePd 55 47.35 -0.9
eS 56 09.96
MCNL 1.48 208 iPd 55 47.97 -0.4
eS 56 09.92
CDD 1.61 192 eP 55 49.49 -0.3
eS 56 13.16
SKT 1.65 25 iPd 55 49.24 -0.9
eS 56 12.17
SEW 1.81 101 iPc 55 50.84 -1.1
PMS 1.84 65 ePd 55 51.08 -1.3
PWA 1.91 51 eP 55 52.23 -0.9
SYI 1.92 171 ePc 55 52.73 -0.6
PLRM 2.18 58 eP 55 54.46 -1.9
CUT 2.32 33 ePd 55 56.73 -1.4
GHO 2.35 55 ePd 55 56.55 -2.1
KNK 2.40 66 ePd 55 57.05 -2.1
LTI 2.60 98 ePc 55 59.59 -2.1
KNIM 2.61 91 ePc 55 59.08 -2.8
MTU 2.71 99 eP 56 01.41 -1.8
GLI 2.93 80 eP 56 03.09 -2.8
HUR 2.96 31 eP 56 04.88 -1.4
TRF 3.23 22 ePc 56 08.16 -1.8
RND 3.51 32 eP 56 11.51 -2.1
KLU 3.59 71 ePc 56 12.15 -2.5

TOA 3.66 61 eP 56 14.18 -1.4
SDG 4.11 57 eP 56 20.06 -1.4
PAX 4.35 52 eP 56 23.52 -1.3
NEA 4.48 22 eP 56 23.70 -2.6
GLB 4.57 74 eP 56 25.73 -2.0
WRH 4.59 28 eP 56 24.98 -2.9
CCB 4.80 28 eP 56 28.11 -2.6
CROM 4.86 83 eP 56 30.14 -1.6
RDS 4.88 25 eP 56 29.21 -2.6
MDM 4.98 24 eP 56 30.24 -2.9
BALM 5.25 79 ePc 56 35.61 -1.2
CTGM 5.74 80 eP 56 42.58 -0.9

54 obs. associated

* APR 19, 1991 02h 11m 55.82 ± 2.34s
32.371 S ± 9.0km 71.743 W ± 21.9km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)
ROCH 0.86 134 iPd 12 11.30 -0.4
iS 12 25.00
JACH 1.02 108 iPd 12 12.00 -1.9
iS 12 27.10
LCCH 1.11 172 iPc 12 15.20 0.1
i 12 30.00
iS 12 31.50
PEL 1.18 131 iPd 12 16.00 -0.1
iS 12 34.00
SAN 1.41 140 iPc 12 20.00 0.6
iS 12 41.10
TACH 1.45 152 iPc 12 23.10 3.2X
iS 12 48.10
PCH 1.62 141 iPc 12 23.00 0.5
iS 12 47.10
RTBS 2.07 71 ePc 12 30.00 1.1
RTCB 2.65 71 ePc 12 37.80 0.5
eS 13 14.00
ZON 2.73 73 eP 12 40.00 1.7X
RTRS 2.94 42 ePd 12 40.10 -1.1
S 13 18.80
RTLL 2.97 70 iPc 12 42.20 0.4
S 13 21.00
CFA 3.07 77 iPc 12 43.70 0.5
eS 13 28.10
S.D. = 1.0 on 11 of 13 obs.
APR 19, 1991 02h 55m 06.98 ± 0.25s
60.842 N ± 5.7km 166.908 E ± 3.1km
DEPTH = 10.4km (2 depth phases)
5.0mb (49 obs.)
EASTERN SIBERIA (671)
YAK 17.67 290 eP 59 17.00 2.7
ePp 59 35.00
ePP 00 32.00
eS 04 36.00
eSS 05 09.00
eSS 06 28.00
eSSS 07 20.00
BRW 17.73 39 eP 59 16.10 1.1
SVW 18.03 73 P 59 20.00 1.2
1.5s 86.49nm 4.7mb
IMA 18.13 56 ePc 59 22.00 1.9
1.4s 35.20nm 4.3mb
RSO 19.56 73 P 59 37.60 0.0
FBA 20.69 59 ePc 59 49.90 0.7
0.9s 18.30nm 4.4mb
SLKM 20.73 72 P 59 48.60 -1.1
PMR 20.89 69 P 59 51.50 0.3
1.0s 18.00nm 4.4mb
TOA 22.07 66 ePc 00 04.10 0.9
BALM 24.15 67 P 00 24.40 0.7
INK 25.63 48 eP 00 38.00 0.4
CN2 29.88 254 eP 01 16.70 0.3
1.0s 10.00nm 4.6mb
Z 15s 1.20um 4.7mszX
ePP 01 23.00
MAT 30.37 230 (P) 01 21.00 0.2
SNY 32.27 254 Pd 01 38.00 0.6
Z 18s 0.50um 4.2msz
IRK 34.28 284 eP 01 56.00 1.2
YKA 35.16 52 eP 02 01.00 -1.2
0.8s 6.20nm 4.5mb
BJI 37.19 260 eP 02 20.50 1.0
HHC 38.00 265 eP 02 34.20 1.0
BTO 39.75 266 eP 02 42.00 0.9
TIY 40.82 261 eP 02 50.80 0.9

19d 03h

Z	11s	0.49um	4.6MsZx	LPF	71.04	351 eP	06 26.40	0.0	SPU	0.08	301 iPc	44 29.80	1.0	
N	10s	0.27um			1.0s	24.00nm		5.3mb			eS	44 39.99		
PNT	41.37	72 eP	02 55.00 0.8	LOR	71.37	348 eP	06 28.20	-0.2	CRP	0.18	317 iPc	44 30.29	1.1	
DAG	42.59	2 eP	03 04.00 0.1		1.0s	31.00nm		5.4mb			eS	44 40.84		
NEW	43.28	71 P	03 09.60 -0.3	SSF	71.61	348 eP	06 29.80	0.0	CKL	0.22	286 iPc	44 30.31	1.1	
	1.0s	10.00nm	4.5mb		1.1s	22.00nm		5.2mb			eS	44 40.93		
FFC	45.20	55 iPc	03 25.30 0.1	LBF	71.64	348 eP	06 29.70	-0.4	BGL	0.26	298 iPc	44 30.69	-0.4	
	1.3s	48.00nm	5.3mb		1.1s	14.65nm		5.0mb		NCG	0.29	336 iPd	44 30.58	-0.6
GTA	45.66	274 P	03 30.00 0.8	AVF	71.90	348 eP	06 31.20	-0.3	NKA	0.51	140 iPc	44 33.85	1.4	
	1.2s	20.00nm	5.0mb		1.0s	26.00nm		5.3mb		RDT	0.62	203 ePc	44 32.62	-0.9
Z	12s	0.60um	4.8MsZx	SMF	71.99	348 eP	06 31.90	-0.2			eS	44 45.35		
N	10s	0.30um			0.9s	8.20nm		4.8mb	SUA	0.65	59 iPc	44 33.49	-0.4	
LZH	46.29	267 iPc	03 34.60 0.3	BGF	72.18	349 eP	06 33.10	-0.1			eS	44 46.31		
	1.0s	50.00nm	5.5mb		0.9s	11.45nm		5.0mb	DFR	0.67	215 iPc	44 33.21	-0.8	
		PP	03 50.00	MFF	72.40	351 eP	06 34.70	0.2			eS	44 45.95		
KEV	46.61	342 eP	03 48.00 11.9X		1.4s	34.85nm		5.3mb	RDN	0.75	214 iPd	44 33.92	-0.9	
WMO	48.09	287 P	03 49.00 0.7	TCF	72.51	349 eP	06 35.20	0.0			eS	44 47.31		
SOD	48.84	341 eP	03 53.00 -0.6		1.3s	21.65nm		5.1mb	REF	0.76	211 eP	44 34.57	-0.4	
CD2	50.52	263 eP	04 06.60 -0.4	MAF	72.54	349 eP	06 35.50	0.1			eS	44 47.70		
BW06	50.91	70 P	04 09.80 -0.3		1.2s	17.85nm		5.0mb	NCT	0.77	221 iPd	44 34.22	-0.7	
	1.0s	6.33nm	4.5mb	LSF	72.61	349 eP	06 35.90	0.1			eS	44 47.82		
TNP	50.96	80 P	04 09.80 -0.7		1.1s	25.65nm		5.2mb	RDW	0.79	214 ePd	44 34.53	-0.8	
	0.6s	1.94nm	4.2mb	LPL	72.78	346 eP	06 37.70	0.6	RS2	0.80	212 ePd	44 34.55	-0.8	
RSSD	52.36	65 P	04 20.40 -0.7		0.6s	4.50nm		4.7mb	RSO	0.80	212 ePd	44 34.55	-0.8	
	1.4s	19.65nm	4.8mb	LPG	72.80	346 eP	06 37.90	0.6			eS	44 48.21		
GYA	52.82	258 P	04 25.00 0.4		1.1s	14.65nm		5.0mb	RED	0.84	211 iPd	44 34.87	-0.8	
KAF	53.73	338 iP	04 29.90 -0.7	RJF	73.54	349 eP	06 41.40	0.2			eS	44 48.95		
	0.5s	2.30nm	4.4mb	CAF	73.87	349 eP	06 43.90	0.7	SKT	0.86	12 iPd	44 34.82	-1.1	
PV09	54.48	73 P	04 36.70 -0.2		1.0s	14.00nm		5.0mb			eS	44 48.80		
NUR	55.52	338 eP	04 42.20 -1.6	LFF	73.98	350 eP	06 44.20	0.5	SLKM	1.04	127 ePc	44 37.15	-0.7	
NB2	57.01	346 P	04 54.00 -0.6		0.6s	9.00nm		5.0mb	PWA	1.10	61 ePd	44 38.36	-0.2	
	0.8s	15.90nm	5.1mb	HYB	74.17	277 eP	06 44.00	-1.3	NNL	1.14	164 ePc	44 39.30	0.3	
SCH	57.10	34 eP	04 59.00 3.8X	LPO	74.19	349 eP	06 45.50	0.5	PMS	1.14	84 iPc	44 38.58	-0.5	
UPP	57.30	342 iP	04 55.60 -0.9		0.8s	10.75nm		4.9mb	PLRM	1.41	70 ePc	44 40.74	-1.6	
HFS	57.59	345 eP	04 57.00 -1.5	EPF	75.90	350 eP	06 54.90	0.0	CUT	1.49	31 iPd	44 42.45	-0.9	
	0.6s	6.10nm	4.8mb	GBA	77.99	276 Pd	07 06.30	-0.4			eS	45 01.65		
Z	14s	0.86um	3.8MsZx		0.6s	4.60nm		4.7mb	HOM	1.49	175 eP	44 43.36	0.0	
		LR	25 20.00	TOL	79.36	353 eP	07 14.00	0.0			eS	45 04.15		
OBN	57.90	329 P	04 59.00 -1.7	WRA	84.68	211 P	07 41.00	-0.7	GHO	1.57	65 ePc	44 42.98	-1.5	
ANMO	58.62	74 P	05 06.40 0.1		0.9s	6.50nm		4.9mb	SEW	1.60	130 ePc	44 43.09	-1.6	
	0.6s	2.17nm	4.4mb						CNPM	1.65	168 ePd	44 44.43	-1.0	
GUN	61.73	277 P	05 26.96 -1.0								eS	45 05.35		
	0.6s	28.00nm	5.6mb						KNK	1.69	79 iPc	44 44.34	-1.6	
KKN	62.13	277 P	05 29.44 -1.0								eS	45 06.62		
	0.6s	14.00nm	5.3mb						XLV	1.69	177 eP	44 45.28	-0.7	
PKI	62.25	277 P	05 30.22 -1.1						PDB	1.77	221 iPd	44 45.83	-1.1	
GKN	62.26	278 P	05 30.14 -1.1								eS	45 08.56		
DMN	62.36	277 P	05 30.72 -1.3						HUR	2.13	29 eP	44 50.29	-1.5	
CHG	63.03	260 ePc	05 35.80 -0.4						KNIM	2.20	109 ePc	44 49.36	-3.3	
	0.9s	12.18nm	5.1mb						LTJ	2.28	117 iPc	44 51.35	-2.5	
CHTO	63.03	260 P	05 36.00 -0.2						MCNL	2.31	213 ePd	44 52.88	-1.3	
		pP	05 39.30 11km	KEK	1.63	349 ePb	46 39.70	3.0X	SCM	2.31	70 eP	44 53.49	-0.7	
FVM	63.29	60 P	05 36.00 -1.7	AGG	1.89	61 iPc	46 40.09	-0.5	GLI	2.36	94 iPc	44 51.64	-3.2	
	0.9s	27.12nm	5.4mb	KZN	2.50	29 ePn	46 51.50	2.1X	CDD	2.38	202 ePc	44 54.02	-1.2	
KSP	66.19	340 eP	05 56.00 -0.3	VLI	2.58	122 ePn	46 52.00	1.5	MTU	2.40	117 ePc	44 52.98	-2.4	
CLL	66.25	342 eP	05 56.00 -0.7	LIT	2.66	41 iP	46 52.84	1.2	TRF	2.44	17 ePd	44 54.11	-2.0	
	1.4s	23.00nm	5.2mb						SYI	2.55	186 eP	44 55.97	-1.4	
BRG	66.54	342 eP	05 58.40 -0.1						VZW	2.60	89 ePc	44 55.39	-2.8	
	1.4s	14.00nm	5.0mb	ATH	2.77	92 ePg	47 00.00	6.8X	RND	2.69	31 ePd	44 57.39	-2.0	
MOX	67.10	343 eP	06 02.00 -0.1	FNA	2.81	18 ePd	46 53.92	0.1	VLZ	2.71	88 ePc	44 56.86	-2.7	
PRU	67.30	341 eP	06 03.20 -0.2						TOA	2.91	68 eP	45 00.76	-1.6	
MEM	67.84	347 P	06 06.80 0.1						KLU	2.91	80 iPc	44 59.71	-2.7	
GRF	68.09	343 eP	06 08.80 0.5						MCK	2.95	27 eP	45 01.56	-1.4	
	1.0s	14.00nm	5.1mb						TZL	3.23	71 eP	45 04.67	-2.1	
		e	06 12.00 10km	GRG	3.30	30 ePc	47 01.80	1.0	BWN	3.25	19 eP	45 06.25	-0.7	
KHC	68.29	341 iP	06 10.00 0.4						SDG	3.32	62 eP	45 06.60	-1.5	
DOU	68.50	348 Pc	06 10.80 0.0						PAX	3.55	56 eP	45 09.38	-1.8	
ZST	68.61	339 eP	06 12.30 0.8	ORI	3.51	305 P	47 04.30	0.6	WRH	3.78	26 eP	45 11.22	-3.1	
VKA	68.68	339 e(P)	06 21.00 9.0X						DDM	3.87	44 ePd	45 15.04	-0.6	
SRO	68.76	338 eP	06 12.80 0.4	BRT	3.61	321 P	47 04.50	-0.5	GLB	3.92	82 eP	45 13.03	-3.3	
MLR	69.38	332 eP	06 18.00 1.5	SOH	3.64	41 ePd	47 04.84	-0.6	CCB	3.99	26 eP	45 14.19	-3.0	
CDF	69.86	346 eP	06 19.00 -0.3	VAY	3.68	29 ePn	47 01.40	-4.7X	HDA	3.99	33 eP	45 14.55	-2.7	
	1.3s	28.90nm	5.3mb	KNT	3.68	33 ePd	47 05.44	-0.7	RDS	4.08	23 eP	45 15.90	-2.6	
FLN	70.28	351 eP	06 21.40 -0.3	ATN	3.74	272 P	47 05.50	-1.5	MDM	4.18	22 eP	45 16.94	-3.0	
	1.1s	39.05nm	5.5mb	BAI	3.96	320 P	47 09.00	-1.0	FBA	4.21	25 eP	45 17.52	-2.8	
KBA	70.32	341 iPc	06 22.90 0.6	SKO	3.96	13 ePn	47 06.00	-4.1X	CRQM	4.29	91 eP	45 19.56	-2.1	
	1.3s	27.60nm	5.2mb						GLM	4.38	26 ePd	45 19.71	-2.9	
		i	06 33.10 33kmX						TGL	4.44	91 eP	45 20.10	-3.6	
		i	06 43.90	PTJ	8.39	339 eP	48 13.60	1.0	BALM	4.65	87 eP	45 22.43	-4.0	
HAU	70.37	346 eP	06 22.10 -0.3	VRJ	9.14	30 eP	48 22.00	-0.7	INK	10.61	40 eP	46 45.00	-2.8	
	0.9s	9.85nm	4.9mb											
LDF	70.42	351 eP	06 22.30 -0.3											
	1.1s	24.40nm	5.2mb											
BSF	70.49	346 eP	06 22.80 -0.4											
	1.0s	10.00nm	4.9mb											
GRR	70.68	351 eP	06 24.00 -0.1											
	1.1s	46.40nm	5.5mb											

S. D. = 0.8 on 90 of 93 obs.			
APR 19, 1991 03h 46m 07.40±0.88s			
38.117 N ± 9.0km 20.209 E ± 4.7km			
DEPTH = 5.6 ± 4.0 km			
GREECE (364)			
MD 3.9 (THE). ML 3.7 (ATH).			
VLS	0.31	79 iPgd	46 12.00 -1.6
IGT	1.42	4 ePd	46 37.40 3.6X
		eS	46 59.64
KEK	1.63	349 ePb	46 39.70 3.0X
AGG	1.89	61 iPc	46 40.09 -0.5
KZN	2.50	29 ePn	46 51.50 2.1X
VLI	2.58	122 ePn	46 52.00 1.5
LIT	2.66	41 iP	46 52.84 1.2
		eS	47 26.32
ATH	2.77	92 ePg	47 00.00 6.8X
FNA	2.81	18 ePd	46 53.92 0.1
		eS	47 30.60
LCI	2.82	322 P	46 54.10 0.2
		eSn	47 26.40
OHR	3.02	8 iPn	46 57.20 0.4
		Lg	48 33.30

S.D. = 0.8 on 90 of 93 obs.

APR 19, 1991 03h 46m 07.40 ± 0.88s

38.117 N ± 9.0km 20.209 E ± 4.7km

DEPTH = 5.6 ± 4.0 km

GREECE (364)

MD 3.9 (THE). ML 3.7 (ATH).

VLS 0.31 79 iPgD 46 12.00 -1.6

IGT 1.42 4 ePd 46 37.40 3.6X

KEK 1.63 349 ePb 46 39.70 3.0X

AGG 1.89 61 iPc 46 40.09 -0.5

KZN 2.50 29 ePn 46 51.50 2.1X

VLI 2.58 122 ePn 46 52.00 1.5

LIT 2.66 41 iP 46 52.84 1.2

ATH 2.77 92 ePg 47 00.00 6.8X

FNA 2.81 18 ePd 46 53.92 0.1

LCI 2.82 322 P 46 54.10 0.2

OHR 3.02 8 iPn 46 57.20 0.4

GRG 3.30 30 ePc 47 01.80 1.0

TDS 3.39 298 P 47 02.40 0.4

ORI 3.51 305 P 47 04.30 0.6

BRT 3.61 321 P 47 04.50 -0.5

SOH 3.64 41 ePd 47 04.84 -0.6

VAY 3.68 29 ePn 47 01.40 -4.7X

KNT 3.68 33 ePd 47 05.44 -0.7

ATN 3.74 272 P 47 05.50 -1.5

BAI 3.96 320 P 47 09.00 -1.0

SKO 3.96 13 ePn 47 06.00 -4.1X

PTJ 8.39 339 eP 48 13.60 1.0

VRJ 9.14 30 eP 48 22.00 -0.7

S.D. = 1.1 on 17 of 23 obs.

& APR 19, 1991 04h 44m 17.23s

61.13

Felt (III) at Olongapo.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 25C
Centroid Location:
Origin Time 04:51:44.6 0.7
Lat 14.40N 0.08 Lon 120.88E 0.06
Dep 160.9 2.2 Half-duration 1.8
Moment Tensor: Scale 10**16 Nm
Mrr= 8.43 0.49 Mtt=-9.58 0.79
Mff= 1.15 0.72 Mrt=-3.53 0.56
Mrf=-3.91 0.48 Mtf=-1.39 0.66
Principal Axes:
T Val= 10.50 Plg=67 Azm=111
N 0.14 19 254
P -10.64 13 349
Best Double Couple: Mo=1.1*10**17
NP1: Strike=102 Dip=36 Slip= 123
NP2: 243 60 68

OCP 0.92 22 iPd 52 05.00 -2.0
MAN 0.95 21 P 52 08.00 0.8
BAG 2.62 357 ePd- 52 24.40 -0.4
iS 52 55.00
DAV 8.18 144 eP 53 42.00 4.8X
TSM 9.84 196 ePd 54 03.40 4.3X
HKC 10.52 325 iP 54 07.80 -0.1
e 56 02.10
QZH 11.29 350 iPd 54 17.50 -0.4
0.7s 450.00nm 6.1mb
Z 13s 8.30um 3.9MsZ
GZH 11.61 324 P 54 21.60 -0.5
Z 14s 1.50um
N 10s 1.10um
QIZ 11.67 298 iPd 54 23.50 0.5
1.4s 300.00nm 5.6mb
SSE 17.24 1 Pd 55 32.50 0.0
1.0s 74.00nm 5.0mb
Z 12s 0.45um 5.1MsZ
iS 58 40.00
WHN 17.69 342 Pd 55 38.00 0.4
1.8s 650.00nm 5.7mb
E 14s 0.80um
GYA 18.24 316 Pd 55 44.00 0.4
1.2s 150.00nm 5.3mb
N 14s 1.30um
E 14s 1.10um
NJ2 18.27 355 Pd 55 44.00 0.2
1.1s 100.00nm 5.1mb
S 56 32.00
SP 59 03.80
LOE 18.65 284 eP 55 48.00 0.2
NST 20.00 278 eP 56 06.50 4.8X
KMI 20.34 306 Pd 56 07.00 1.6
1.5s 120.00nm 5.1mb
Z 14s 0.70um 4.2MsZ
N 10s 0.30um
E 10s 0.40um
S 59 40.00
KGM 20.80 237 ePc 56 11.60 1.8
SNG 20.82 254 eP 56 11.20 1.3
BDT 21.21 282 eP 56 14.20 0.4
IPM 21.47 247 ePd 56 17.70 1.3
0.6s 40.50nm 5.1mb
KHT 21.47 275 iPd 56 17.10 0.7
CHG 21.49 286 ePd 56 17.50 0.9
1.3s 134.13nm 5.3mb
eS 00 08.00
TIA 22.57 352 Pd 56 27.20 0.2
S 00 19.00
XAN 22.84 334 Pd 56 29.40 -0.2
S 00 24.50
CD2 23.12 320 iPd 56 32.40 0.0
1.0s 500.00nm 6.0mb
Z 13s 1.25um 4.5MsZ
N 11s 1.09um
ePP 57 01.50
PP 57 13.50
iS 00 29.90
TIY 24.96 344 eP 56 49.50 -0.2
Z 14s 0.71um 4.3MsZ
N 12s 0.45um
PP 57 29.00
S 00 57.50
BJI 26.47 352 eP 57 02.50 -0.9

1.0s 27.00nm 4.9mb
Z 24s 0.32um 3.8MsZ
eS 01 24.00
LZH 26.89 329 iPd 57 07.50 0.0
1.6s 540.00nm 6.0mb
N 15s 0.98um
E 15s 0.81um
PP 57 37.00
SP 57 56.60
PP 57 59.00
S 01 31.00
ScP 03 49.50
PcS 04 04.50
ScS 07 39.50
57 20.00 1.4
HHC 28.14 345 P
1.0s 23.00nm 4.9mb
Z 28s 0.90um 4.2MsZ
E 13s 0.40um
BTO 28.32 343 eP 57 19.50 -0.7
eS 01 55.00
SHL 29.51 298 iP 57 30.50 -0.6
KNA 30.39 165 eP 57 37.80 -0.8
GTA 31.49 328 iPd 57 48.60 0.4
0.8s 60.00nm 5.4mb
Z 18s 0.90um 4.5MsZ
E 14s 0.70um
S 02 42.50
SS 03 48.00
ScP 04 03.80
ScS 08 00.00
LSA 31.59 305 Pd 57 49.00 -0.5
PP 59 02.00
iS 02 42.00
MDJ 31.66 12 eP 57 49.00 -0.4
LAT 33.05 126 eP 58 02.48 0.7
MBL 34.73 181 eP 58 15.20 -0.8
PMG 34.91 130 eP 58 17.00 -0.7
GUN 35.33 299 P 58 21.74 0.2
PKI 35.64 298 P 58 23.80 -0.3
KKN 35.80 299 P 58 24.98 -0.4
0.8s 129.00nm 5.6mb
DMN 35.91 298 P 58 26.08 -0.2
WB2 36.09 158 iPd 58 26.30 -1.2
0.6s 50.90nm 5.4mb
iP 59 02.90 167km
eS 03 49.00
GKN 36.41 299 P 58 29.92 -0.5
QIS 38.84 151 iPc 58 50.00 -0.5
0.2s 8.00nm 5.1mb
i 00 58.60
ASPA 39.38 161 iPc 58 54.70 -0.3
0.4s 38.20nm 5.4mb
Z 22s 0.40um 4.2MsZ
iP 59 34.70 186kmX
iPP 59 48.60
iPcP 00 59.80
iS 04 39.90
WARB 40.13 172 eP 59 01.00 -0.1
MEKA 40.20 183 eP 59 01.70 0.1
IRK 40.59 345 eP 59 05.20 0.6
e 59 41.30 165km
e 04 59.70
HYB 40.72 281 iPd 59 07.00 0.9
1.0s 35.00nm 4.9mb
e 59 46.00 180km
WMO 41.16 323 P 59 10.30 0.8
1.0s 30.00nm 4.8mb
Z 14s 0.50um 4.5MsZ
N 12s 0.50um
S 05 11.30
ScS 08 54.50
CTA 41.99 143 iPc 59 16.90 0.5
1.1s 151.90nm 5.5mb
GBA 42.01 275 Pd 59 16.50 -0.2
0.4s 9.60nm 4.7mb
KOD 42.42 270 eP 59 21.00 0.6
BAL 44.29 185 eP 59 34.50 -0.3
FORR 44.93 171 iPd 59 38.80 -1.0
0.6s 106.00nm 5.6mb
SVO 44.99 118 eP 59 41.00 0.4
POO 45.18 282 eP 59 40.50 -1.6
KLB 45.20 184 iPd 59 41.70 -0.2
QLP 46.17 150 eP 59 50.00 0.3
NWA0 46.56 184 iPd 59 52.70 0.0
RKG 47.71 184 eP 00 05.40 3.8X
YAK 48.60 6 eP 00 07.20 -1.0
i 00 46.00 173km

STK 49.61 157 iPc 00 35.40 19.1X
0.8s 11.90nm
iP 01 15.80 181km
ePP 01 32.30
eS 06 48.30
ADE 51.39 161 iPd 00 29.50 -0.3
0.9s 161.34nm 5.7mb
BRS 51.40 143 iPc 00 29.50 -0.4
e 01 08.00 170km
i 01 43.50
QUE 52.01 298 eP 00 33.30 -1.5
eS 07 43.40
BFD 54.68 159 iPd 00 53.10 -0.8
0.8s 26.00nm 5.1mb
DZM 57.26 128 iPd 01 13.10 0.5
ANM 70.75 26 ePc 02 40.30 0.8
BRW 74.65 19 eP 03 03.70 1.5
TTA 74.78 28 ePc 03 04.20 1.0
1.2s 39.20nm 5.0mb
SVW 74.99 30 ePc 03 05.50 1.1
OBN 75.48 324 P 03 06.00 -1.1
1.0s *****nm 8.0mb X
e 03 08.00 6kmX
e 03 46.00
IMA 75.73 25 ePc 03 09.30 0.7
1.2s 34.90nm 5.0mb
RSO 76.43 31 P 03 12.50 -0.1
SLKM 77.67 30 P 03 18.50 -0.7
PMR 78.08 29 ePc 03 21.10 -0.3
0.9s 22.80nm 4.9mb
FBA 78.27 26 P 03 21.50 -0.9
pP 04 04.00 174km
KEV 78.47 339 iP 03 23.00 -0.4
0.6s 10.40nm 4.7mb
SOD 78.97 337 iP 03 25.40 -0.8
DSI 79.01 300 eP 03 28.00 0.9
TOA 79.40 29 ePc 03 29.70 1.1
MBH 79.74 298 eP 03 34.00 2.8X
KAF 80.00 332 iP 03 31.10 -0.6
0.4s 2.80nm 4.3mb
PFH 80.27 72 P 03 36.00 2.0
NUR 81.10 330 eP 03 38.00 0.5
0.6s 10.40nm 4.7mb
BALM 81.40 29 P 03 39.20 0.0
INK 83.02 21 eP 03 47.00 -0.3
pP 04 29.00 169km
MLR 83.61 315 eP 03 48.00 -3.0
UPP 84.66 330 iP 03 54.40 -1.2
i 04 36.90 171km
SIT 85.98 32 eP 04 04.30 2.0
HFS 86.42 331 eP 04 03.00 -1.4
0.5s 6.00nm 4.7mb
DAG 86.56 351 iP 04 04.00 -0.8
VAY 87.03 312 eP 04 06.20 -1.5
NB2 87.20 333 P 04 06.70 -1.6
0.9s 9.10nm 4.7mb
KSP 88.31 322 iPd 04 14.50 0.8
e 04 56.80 168km
BRG 89.69 323 eP 04 18.80 -1.4
1.0s 14.00nm 4.9mb
i 05 12.00 216kmX
e 05 49.80
YKA 92.70 22 eP 04 34.00 0.2
0.6s 4.80nm 4.8mb
RMW 97.49 37 P 04 57.00 0.9
NEW 99.76 35 P 05 07.00 0.6
TNP 105.17 44 PKP 09 40.00 -4.5X
BW06 107.28 36 PKP 09 51.00 2.6
RSSD 109.44 33 PKP 09 51.70 -0.7
ANMO 114.06 41 PKP 10 02.00 0.5
TUL 119.72 34 ePKP 10 11.10 -0.8
0.6s 4.10nm
KIC 122.29 287 PKP 10 17.00 -0.4
TIC 122.45 287 PKP 10 17.00 -0.8
LIC 122.61 287 PKP 10 17.70 -0.3
LPB 171.05 109 PKP 11 32.00 1.9
i 12 55.00
ZOBO 171.10 107 PKP 11 31.50 1.1
1.0s 21.25nm
i 12 54.00
SIV 177.20 142 PKP 11 32.40 0.8
S.D. = 1.0 on 105 of 112 obs.
APR 19, 1991 05h 03m 39.31s
59.502 N 136.440 W
OEPTH = 0.0km
SOUTHEASTERN ALASKA (19)

19d 05h

<AEIC>. ML 3.3 (AEIC).

PNL	1.51	278	iP	04 04.93	-2.8
			eS	04 25.09	
YKU	1.68	273	eP	04 08.84	-1.2
			eS	04 30.17	
SIT	2.52	166	eP	04 19.05	-3.1
			eS	04 52.06	
BALM	3.32	300	eP	04 32.63	-1.1
TGL	3.44	294	eP	04 33.81	-1.5
			eS	05 16.75	
GLB	4.13	301	eP	04 43.88	-1.3
KLU	5.09	297	eP	04 55.02	-3.8
VZW	5.27	292	eP	04 58.21	-3.1
KNK	6.25	293	eP	05 12.53	-2.5
					9 obs. associated

APR 19, 1991 05h 27m 16.66± 1.11s
 11.991 N ± 5.2km 142.187 E ± 5.0km
 DEPTH = 49.6 ± 10.0 km
 5.2mb (13 obs.) 4.4MsZ (4 obs.)
 SOUTH OF MARIANA ISLANDS (210)

PJG	3.06	58	eP	28 04.00	0.3
GUA	3.07	60	eP	28 04.10	0.2
			eS	28 40.00	
DAV	17.09	255	eP	31 19.00	5.3X
BAG	21.40	284	eP	32 03.00	0.4
PMG	21.83	167	eP	32 05.50	-1.1
CHJJ	24.12	354	eP	32 28.60	-0.4
KAKJ	24.18	356	eP	32 28.10	-1.3
MAT	24.71	352 (P)		32 34.00	-0.6
MTMJ	24.80	352	eP	32 35.40	-0.2
NIJJ	25.30	354	P	32 40.20	0.0
WHN	31.70	310	eP	33 39.00	1.1
OIS	32.44	185	iPc	33 43.60	-0.8
WB2	32.66	194	eP	33 45.00	-1.3
			0.5s	7.70nm	4.8mb
BJI	36.16	325	eP	34 16.50	0.3
			1.5s	78.00nm	5.4mb
			20s	0.60um	4.4MsZ
ASPA	36.35	193	eP	34 18.30	0.3
			0.4s	6.50nm	4.9mb
			18s	0.30um	4.1MsZ
GYA	36.35	299	P	34 19.80	1.6
TIY	36.92	319	Pc	34 23.50	0.7
			1.0s	57.00nm	5.5mb
			22s	0.65um	4.4MsZ
XAN	37.40	311	eP	34 26.50	-0.3
HHC	39.35	322	Pd	34 44.50	1.4
			20s	0.60um	4.4MsZ
BTO	40.14	321	P	34 51.00	1.4
CD2	40.15	304	eP	34 50.00	0.2
			1.0s	50.00nm	5.3mb
BRS	40.47	165	i(PKP)	34 52.50	0.2
DZM	41.38	145	iPc	35 01.30	1.4
LZH	42.04	311	iPc	35 06.20	0.9
			1.5s	57.00nm	5.1mb
					PP 35 17.50
					SP 35 24.00
CHG	42.16	285	eP	35 07.00	0.7
STK	43.63	181	iPc	35 37.60	19.6X
			1.1s	3.70nm	
GTA	46.33	314	iPc	35 40.50	0.8
			1.0s	30.00nm	5.2mb
					PP 35 51.00
					SP 35 58.00
					PcP 37 14.60
YAK	50.75	352	eP	36 11.90	-1.6
GUN	54.80	296	P	36 43.98	-0.6
			0.4s	19.00nm	5.5mb
PKI	55.19	295	P	36 46.30	-1.1
KKN	55.32	295	P	36 47.06	-1.1
DMN	55.46	295	P	36 48.38	-0.9
			0.5s	12.00nm	5.2mb
GKN	55.90	296	P	36 51.20	-1.1
WMO	56.37	315	iPc	36 55.50	0.1
			2.0s	40.00nm	5.1mb
SVW	66.29	28	e(P)	38 01.00	-0.9
SLKM	68.66	29	e(P)	38 10.00	-6.7X
QUE	71.39	298	eP	38 33.40	-0.8
INK	76.83	22	ePd	39 40.00	-0.6
YKA	85.47	27	eP	39 49.80	-0.3
			0.4s	3.50nm	4.9mb
PNT	86.28	40	eP	39 54.00	-0.5
MIN	87.01	50	ePc	39 57.80	-0.6
ORV	87.26	50	ePc	39 59.30	-0.1

GCC	87.45	53	e(P)	40 00.90	0.5
MHC	87.66	52	eP	40 01.30	-0.3
PRS	88.10	53	ePc	40 04.10	0.6
NEW	88.15	41	eP	40 03.60	0.0
			0.8s	18.75nm	5.4mb
CMB	88.47	52	ePc	40 05.60	0.3
PRI	88.70	53	eP	40 07.40	0.8
OBN	88.98	326	P	40 06.00	-1.3
			1.0s	*****nm	8.4mb X
				e	40 07.00
FRI	89.24	52	ePc	40 09.00	0.1
TNP	90.87	51	P	40 17.00	0.2
			e	40 26.70	
LRM	91.93	42	eP	40 21.40	-0.2
PEC	92.06	55	eP	40 22.00	-0.1
FFC	94.54	32	eP	40 32.50	-0.5
			1.0s	10.00nm	5.2mb
KIC	142.40	297	(PKP)	46 41.80	-4.9X
LIC	142.71	297	(PKP)	46 42.60	-4.6X
ZOBO	150.32	102	PKP	47 02.50	2.3
			1.0s	15.00nm	
LPB	150.32	102	PKP	47 07.00	7.0X
CCH	152.09	104	PKP	47 10.70	8.2X
SIV	157.09	103	PKP	47 10.70	1.8
					S.D. = 0.9 on 53 of 60 obs.

* APR 19, 1991 05h 33m 16.91± 1.39s
 23.971 N ± 10.3km 121.711 E ± 14.9km
 DEPTH = 35.0 ± 12.1 km
 3.8mb (2 obs.)

TAIWAN (244)					
TWD	0.15	316	iPc	33 23.30	0.0
			eS	33 27.50	
TWC	0.65	11	iPd	33 31.70	2.1
			eS	33 42.20	
TWF1	0.72	212	iPc	33 29.20	-1.5
			eS	33 38.40	
TWQ	0.85	291	ePc	33 34.40	1.8
			eS	33 46.30	
TWZ	1.13	354	ePd	33 39.20	2.8X
TWK	1.32	238	ePc	33 40.10	0.7
			eS	33 57.30	
OZH	3.00	289	Pnc	34 02.80	-0.4
			Sn	34 36.40	
SSE	7.11	356	eP	35 00.20	-1.0
NJ2	8.44	343	Pc	35 18.30	-1.4
WHN	9.26	317	Pc	35 29.50	-1.6
CHTO	21.80	261	eP	38 09.00	1.1
			1.2s	4.86nm	3.8mb
INK	73.24	22	eP	44 46.00	0.0
YKA	82.98	23	eP	45 39.60	0.1
			0.6s	0.60nm	3.9mb
					S.D. = 1.5 on 12 of 13 obs.

* APR 19, 1991 05h 52m 33.46± 2.80s
 36.258 N ± 15.4km 71.150 E ± 10.8km
 DEPTH = 49.2 ± 28.5 km
 4.2mb (6 obs.)

AFGHANISTAN-USSR BORDER REGION (717)					
QUE	7.00	211	eP	54 17.80	1.7
			eS	55 32.40	
NDI	9.12	144	e(P)	54 43.00	-2.3
GKN	14.07	122	P	55 51.94	0.0
DMN	14.64	122	P	55 59.42	-0.1
KKN	14.65	121	P	55 59.16	-0.3
			0.5s	25.00nm	4.9mb
PKI	14.87	122	P	56 02.64	0.1
			0.3s	12.00nm	4.7mb
GUN	14.99	120	P	56 03.86	-0.3
GBA	23.25	164	Pd	57 39.00	1.7
			0.6s	3.10nm	3.9mb
KOD	26.53	166	eP	58 10.50	1.7
HFS	43.33	322	eP	00 32.60	0.6
			0.4s	1.70nm	4.1mb
			Z 16s	0.10um	3.8MsZ X
				LR	20 37.00
NB2	44.65	323	P	00 42.90	0.2
			0.6s	1.80nm	4.0mb
INK	74.12	9	eP	04 07.00	1.2
FBA	74.67	16	P	04 09.00	0.8
KIC	74.89	267	P	04 09.40	-1.8
TIC	74.95	267	P	04 09.80	-1.7
LIC	75.20	267	P	04 11.00	-1.9
YKA	81.48	3	eP	04 46.80	0.5
			0.4s	0.50nm	3.8mb

S.D. = 1.4 on 17 of 17 obs.

* APR 19, 1991 06h 13m 41.40± 1.33s
 23.466 S ± 13.6km 68.599 W ± 13.7km
 DEPTH = 108.0 ± 13.5 km
 4.2mb (1 obs.)

NORTHERN CHILE (123)

ANT	1.68	262	iPc	14 10.80	0.1
			iS	14 30.50	
			i	14 32.20	
CCH	6.48	21	P	15 17.00	1.0
LPB	6.91	4	P	15 23.00	0.9
ZOBO	7.17	4	P	15 24.00	-1.8
ARE	7.48	338	e(P)	15 34.00	4.2X
VAO	19.88	93	eP	18 06.20	-0.4
ANMO	68.30	327	P	24 33.00	0.0
KIC	68.99	73 (P)		24 37.70	0.3
YKA	93.13	340	eP	26 43.90	0.2
			0.6s	0.80nm	4.2mb
					S.D. = 1.2 on 8 of 9 obs.

APR 19, 1991 06h 25m 57.61± 0.50s
 41.499 N ± 5.5km 20.637 E ± 5.0km
 DEPTH = 10.0km (geophysicist)

ALBANIA (391)

ML 3.2 (SKO), 2.6 (TTG). Felt
 (IV) at Debor, Yugoslavia.

OHR	0.41	162	iPgc	26 06.00	0.1
			iSg	26 14.20	
			LR	26 15.00	
SKO	0.76	52	ePg	26 12.00	-0.5
			iSg	26 24.20	
ULC	1.14	295	iPgc	26 18.84	-0.1
			iSg	26 32.42	
PVY	1.20	336	iPgc	26 20.14	0.1
			iSg	26 34.90	
TTG	1.38	313	iPg	26 22.17	-0.7
			iSg	26 39.07	
VAY	1.47	96	ePn	26 24.30	0.2
IVA	1.48	338	iPg	26 24.97	0.7
			iSg	26 42.75	
BDV	1.56	301	iPg	26 25.62	0.2
			iSg	26 44.60	
NKY	1.79	318	iPg	26 29.27	0.4
			iSg	26 50.50	
HCV	1.85	301	iPg	26 29.04	-0.7
			iSg	26 52.19	
PLE	2.05	334	iPnc	26 32.74	0.1
			iSn	26 57.19	
BRY	2.09	313	iPnc	26 33.54	0.3
			iSn	26 58.07	
					S.D. = 0.5 on 12 of 12 obs.

APR 19, 1991 06h 39m 41.52± 0.13s
 16.865 N ± 2.3km 60.592 W ± 2.3km
 DEPTH = 16.5km (5 depth phases)
 5.5mb (59 obs.) 4.9MsZ (18 obs.)

LEEWARD ISLANDS (92)

MD 5.3 (TRN). Felt on Dominica
 and Guadeloupe. Also felt (II)
 on Martinique.

DEG	0.71	219	iPc	39 55.71	0.6
			S	40 06.40	
SFG	0.84	224	iPc	39 57.94	0.7
SEG	0.99	242	iPc	40 01.19	1.4
BPA	1.22	279	iPc	40 04.83	1.0
			S	40 20.30	
BCG	1.25	232	iP	40 04.83	0.6
DOG	1.29	230	iPc	40 05.32	0.6
SSG	1.30	234	iP	40 05.44	0.4
CRG	1.30	232	iP	40 05.45	0.3
TAG	1.31	232	iP	40 05.68	0.4
PAG	1.33	232	iPc	40 05.91	0.5
			S	40 23.10	
MLG	1.34	233	iP	40 06.07	0.6
BTG	1.39	231	eP	40 06.91	0.8
			S	40 25.00	
CPB	1.41	303	eP	40 07.38	1.0
BBL	1.58	213	iPc	40 08.98	0.0
NEV	1.91	278	ePc	40 15.48	1.7
CXM	2.12	195	eP	40 16.58	-0.2
CRM	2.12	188	iPc	40 16.71	-0.1
PCM	2.12	196	eP	40 16.30	-0.5
PML	2.15	195	eP	40 16.80	-0.4

	FID	2.19	194	iPc	40	17.39	-0.4	MWC	53.98	300	eP	55	55.00	LPL	0.9s	45.00nm	5.6mb			
		S			40	42.00						49	06.00	-1.2	62.32	47 eP	50 05.90	0.3		
MVM		2.32	187	iPc	40	19.76	0.2	ISA	54.41	302	eP	49	10.00	-0.3	1.1s	28.10nm	5.3mb			
BIM		2.38	191	iPc	40	20.62	0.2	EDM	54.63	324	ePd	49	10.50	-1.1	MEM	62.32	41 P	50 05.70	0.5	
CPD		5.21	284	P	41	01.00	0.3	TIC	55.19	94	Pd	49	14.62	-1.5	LPG	62.33	47 eP	50 06.20	0.4	
LPR		5.23	287	P	41	00.90	-0.1		0.9s	18.00nm				5.1mb	1.1s	26.85nm	5.3mb			
SJG		5.45	284	iP	41	04.20	0.2	LIC	55.29	94	Pd	49	15.62	-1.3	BSF	62.54	45 eP	50 05.80	-1.1	
BOT		5.67	181	eP	41	11.20	4.1X		0.7s	20.50nm				5.2mb	1.0s	30.00nm	5.4mb			
CLLP		5.84	283	P	41	09.20	-0.2	Z	20s	0.20um				4.2MsZ	62.91	44 eP	50 08.70	-0.6		
LRS		6.13	284	P	41	14.20	0.6	NEW	55.43	317	P	49	16.60	-0.9		1.1s	36.65nm	5.5mb		
TRN		6.23	187	eP	41	16.07	1.1		1.2s	96.97nm				5.7mb	WTS	62.99	40 iPd	50 09.80	0.2	
		eS			42	22.70		FRI	55.51	304	ePc	49	16.40	-1.8		1.0s	63.00nm	5.7mb		
TCE		6.23	191	eP	41	15.58	0.5	KIC	55.53	94	Pd	49	17.42	-1.2	ABH	63.22	42 eP	50 11.44	0.2	
		iS			42	24.55			0.8s	27.00nm				5.3mb	DAG	63.58	10 iPc	50 13.10	-0.1	
MGP		6.31	281	P	41	15.70	-0.4	SYF	55.58	301	eP	49	19.00	0.1		1.0s	49.00nm	5.6mb		
TBH		6.36	184	eP	41	17.63	0.8	CMB	56.13	305	ePc	49	22.40	-0.3	Z	21s	1.43um	5.1MsZ		
TPP		6.56	187	eP	41	20.24	0.5			eSP		49	45.30		GRF	65.59	43 iPd	50 26.60	0.0	
CAR		8.82	225	iP	41	46.00	-5.4X	PRI	56.22	302	eP	49	23.80	0.3		1.2s	45.00nm	5.5mb		
OLLA		9.10	222	eP	41	53.70	-1.5	AKU	56.30	20	iP	49	25.10	1.7	Z	19s	0.50um	4.7MsZ		
TOV		11.38	233	iPc	42	23.60	-3.0X		0.9s	20.17nm				5.2mb	MOX	65.88	42 eP	50 28.00	-0.5	
YHJ		15.21	276	eP	43	20.89	3.5X	LLA	56.47	303	ePc	49	23.30	-1.9		1.8s	38.00nm	5.3mb		
HQJ		15.46	277	eP	43	24.25	3.7X			eSP		49	46.40		Z	21s	1.10um	5.0MsZ		
STH		15.53	277	eP	43	24.48	3.1X	PRS	56.80	303	e(P)	49	26.70	-0.8	NB2	66.59	30 P	50 33.30	0.5	
BMG		15.61	233	iPd	43	20.50	-2.1	MHC	57.07	304	iPd	49	29.70	0.1		1.0s	39.10nm	5.5mb		
BOG		17.96	229	iPc	43	54.00	1.4			ePp		49	47.00	66kmX	CLL	66.78	41 iPd	50 34.20	0.0	
		iS			47	16.00				eSP		49	51.60			1.3s	58.00nm	5.6mb		
UPA		20.04	249	ePc+	44	14.20	-2.6	ORV	57.12	306	ePc	49	29.40	-0.4	KBA	66.95	46 eP	50 35.00	-0.6	
		0.6s	45.33nm			5.0mb				ePp		49	46.90	67kmX		1.3s	43.40nm	5.5mb		
Z		21s	1.18um			4.2MsZ				eSP		49	51.60				ic	50 35.40	1kmX	
YANA		24.47	228	eP	45	01.20	-0.4	PNT	57.28	318	ePc	49	31.00	0.3		i	50 50.70			
CBN		25.87	329	eP	45	14.00	0.0	LPF	57.35	43	eP	49	31.10	-0.1		i	50 53.60			
BLA		26.78	323	P	45	22.20	-0.3		1.3s	65.00nm				5.5mb	KHC	67.11	43 Pd	50 36.10	-0.3	
		e			45	26.10	14km	EPF	57.51	49	eP	49	33.00	0.6	BRG	67.37	41 iPd	50 37.60	-0.4	
RSCP		29.02	315	P	45	42.40	-0.5		1.6s	158.60nm				5.8mb		1.0s	40.00nm	5.5mb		
		pP			45	48.50	21km	GRR	57.55	43	eP	49	32.40	-0.1		i	50 49.60	40kmX		
CBM		30.62	350	P	45	56.00	-1.0		1.1s	65.95nm				5.6mb		i	50 59.20			
NNA		32.86	210	iP	46	14.80	-2.1	BRK	57.60	304	ePc	49	32.80	-0.2		i	51 04.80			
		0.9s	12.60nm			4.8mb		PCC	57.67	304	ePc	49	33.70	0.1	HFS	67.70	31 eP	50 39.10	-0.8	
FVM		33.59	315	P	46	22.00	-1.0	MFF	57.69	45	eP	49	33.70	0.1		0.7s	20.80nm	5.4mb		
		0.7s	20.41nm			5.2mb			1.0s	40.00nm				5.4mb	Z	18s	0.42um	4.7MsZ		
ZOBO		33.75	193	P	46	22.50	-2.7	FLN	57.86	43	eP	49	34.80	0.1		LR	11 15.00			
		1.0s	10.75nm			4.7mb			1.1s	78.15nm				5.7mb	SIT	67.71	325 eP	50 41.30	1.3	
Z		24s	1.59um			4.7MsZ		Z	21s	1.08um				4.9MsZ	PRU	67.74	42 eP	50 40.10	-0.2	
		S			51	34.00			1.3s	115.55nm				5.8mb		1.6s	40.00nm	5.3mb		
		LR			57	08.00		LDF	58.07	43	eP	49	36.30	0.1	Z	18s	0.50um	4.8MsZ		
LPB		34.00	193	P	46	25.00	-2.2		1.2s	89.25nm				5.7mb	INK	68.15	337 iPd	50 41.30	-1.2	
Z		22s	2.59um			4.9MsZ		LPO	58.33	48	eP	49	38.10	0.0		0.9s	63.00nm	5.8mb		
		LR			59	22.00			1.1s	87.90nm				5.7mb	KSP	68.86	41 eP	50 46.60	-0.7	
CCH		34.47	189	P	46	30.00	-1.1	RJF	58.64	47	eP	49	39.90	-0.4		e	51 05.00	69kmX		
TUL		36.53	308	ePd	46	47.40	-0.8		1.1s	73.25nm				5.7mb	ZST	69.46	44 eP	50 50.30	-0.7	
		1.4s	97.80nm			5.5mb			20s	2.10um				5.3MsZ	BUD	70.80	45 eP	50 59.00	-0.1	
Z		19s	0.88um			4.6MsZ		Z	20s	2.10um				5.3MsZ	BALM	71.41	329 P	51 02.90	0.1	
		LR			57	37.70		LSF	58.78	46	eP	49	41.10	-0.1		SPC	71.48	43 eP	51 03.80	0.3
SCH		38.18	354	eP	47	03.00	1.2		1.2s	87.75nm				5.7mb	SKO	73.08	51 iP	51 13.10	0.2	
MEQ		38.29	305	iPc	47	02.60	-0.4	YKA	58.90	334	eP	49	39.50	-2.2		73.15	31 iP	51 13.00	0.1	
PPD		39.71	166	eP	47	14.80	-0.1		0.9s	31.80nm				5.4mb	NUR	0.9s	47.30nm	5.5mb		
		e			47	20.20	18km	CAF	58.98	47	eP	49	42.70	0.0		73.19	331 eP	51 13.90	0.7	
VAO		41.80	161	eP	47	32.40	0.3		1.1s	64.70nm				5.7mb	TOA	73.49	21 iP	51 15.00	0.3	
ANMO		44.59	303	P	47	55.10	0.1	FHC	59.12	308	ePc	49	44.10	0.4	KEV	0.8s	26.40nm	5.3mb		
		0.9s	17.86nm			5.0mb				ePp		50	01.60	67kmX		73.51	24 iP	51 15.20	0.3	
Z		20s	1.38um			4.9MsZ				eSP		50	06.10		FBA	73.70	334 ePd	51 16.20	0.2	
GLD		44.85	310	P	47	57.50	0.5	TCF	59.25	46	eP	49	44.40	-0.1		0.9s	43.90nm	5.5mb		
Z		18s	1.66um			5.0MsZ			1.2s	46.10nm				5.5mb	KAF	73.81	29 eP	51 16.80	0.1	
GOL		44.94	310	P	47	57.50	-0.3	MAF	59.49	46	eP	49	45.90	-0.3		0.5s	22.50nm	5.5mb		
Z		18s	1.17um			4.9MsZ			1.0s	32.50nm				5.4mb	VAY	74.01	51 eP	51 19.00	0.8	
RSSD		45.51	316	P	48	02.50	0.2	PGC	59.64	317	eP	49	46.00	-1.0		74.29	50 iPd	51 21.00	0.9	
		1.7s	54.18nm			5.2mb		BGF	59.73	46	eP	49	47.40	-0.4		74.31	50 iPc	51 22.00	2.0	
Z		20s	2.03um			5.1MsZ			1.2s	52.05nm				5.5mb	PMR	74.64	330 ePd	51 21.60	0.1	
PV09		47.45	307	P	48	17.20	-0.6	PYM	59.74	47	P	49	48.33	0.4		1.1s	39.90nm	5.4mb		
BW06		48.85	312	P	48	27.60	-0.9	LBL	59.85	47	P	49	49.16	0.6	MMB	74.83	51 iPc	51 24.00	0.9	
		1.2s	65.07nm			5.5mb		GRC	59.98	45	P	49	49.58	0.1		75.00	50 eP	51 25.00	0.9	
FFC		49.34	330	iPd	48	31.20	-0.5	AVF	60.10	45	eP	49	50.00	-0.3	SLKM	75.31	329 P	51 24.90	-0.5	
		1.2s	37.00nm			5.3mb			1.1s	59.85nm				5.6mb	RZN	75.54	50 iPd	51 28.00	0.6	
GLA		51.21	299	eP	48	47.00	0.6	SSF	60.24	45	eP	49	50.70	-0.6		75.78	46 iPc	51 30.00	1.4	
LRM		51.71	316	eP	48	50.50	0.2		1.2s	66.95nm				5.6mb	IMA	75.98	335 iPd	51 29.90	0.6	
IFR		52.27	60	iPd	48	55.00	0.4	SMF	60.42	46	eP	49	52.10	-0.4		1.1s	32.30nm	5.3mb		
TPC		52.31	300	eP	48	55.00	0.3		1.2s	86.30nm				5.8mb	KDZ	76.06	50 iP	51 31.00	0.9	
BAR		52.73	298	eP	48	58.00	0.1	LOR	60.50	45	eP	49	52.40	-0.7		76.08	50 iP	51 32.00	1.9	
PLM		52.93	299	eP	49	00.00	0.4		1.1s	73.25nm				5.7mb	BRW	76.12	341 eP	51 31.40	1.6	
GSC		53.03	302	eP	49	01.00	0.9	Z	20s	0.63um				4.8MsZ	VRI	76.26	46 eP	51 31.50	0.4	
PEC		53.21	300	P	49	01.50	0.0	LBF	60.55	45	eP	49	52.70	-0.7		76.55	329 P	51 32.70	0.0	
RVR		53.40	300	eP	49	03.00	0.3		1.1s	42.75nm				5.5mb		pP	51 37.00	14km		
TNP		53.65	305	P	49	04.60	-0.2	DOU	61.36	42	P	49	58.30	-0.5	SVW	77.80	330 ePd	51 39.60	0.2	
		0.8s	11.76nm			4.9mb														

N	20s	0.60um				SKT	1.30	3	iPd	45	10.69	-0.8	eS	17	39.40					
E	18s	1.20um							eS	45	27.91		MRRJ	2.09	330	eP	17	19.20	-0.2	
		i	51	59.00	16km	PWA	1.30	42	ePd	45	11.60	0.1			eS	17	43.00			
		e	52	08.00		PLRM	1.54	53	eP	45	13.76	-0.9	KUSJ	2.99	33	P	17	31.00	-1.1	
		e	52	47.00		PDB	1.54	235	ePc	45	12.81	-1.9			eS	18	03.60			
		e	52	58.00		GHO	1.72	50	ePc	45	16.31	-1.0	YAMJ	3.08	219	eP	17	32.80	-0.7	
ELL	80.50	55	iP	51	56.40	1.8	KNK	1.73	64	ePc	45	16.25	-1.2			eS	18	13.30		
ANM	81.11	335	eP	51	59.00	1.9	CUT	1.85	21	eP	45	18.76	-0.2	ASAJ	3.50	2	eP	17	39.30	0.0
BBTK	81.90	51	iPc	52	03.00	1.1	KNIM	1.99	98	ePc	45	18.10	-2.8	NIIJ	4.32	220	P	17	51.70	0.9
AIA	81.91	182	eP	52	03.60	2.6	LTI	2.02	107	eP	45	18.85	-2.4	KAKJ	4.76	203	P	17	55.80	-1.2
ADI	85.69	57	iPd	52	24.00	2.8	CDD	2.02	210	ePd	45	20.23	-1.2	MAT	5.26	221	eP	18	04.00	-0.1
JVI	86.13	58	iPd	52	26.50	3.1X	SYI	2.12	190	eP	45	21.38	-1.3		0.6s	36.67nm			4.8mb	
MBH	86.39	60	iPd	52	27.80	3.0X	MTU	2.13	108	eP	45	20.58	-2.3	CHJJ	5.32	212	P	18	04.80	0.0
GKN	124.11	38	PKP	58	41.00	-0.6	GLI	2.26	83	eP	45	21.87	-2.9	MTMJ	5.44	224	P	18	07.60	1.0
	0.9s	49.00nm				VZW	2.54	79	eP	45	25.93	-2.7	CHTO	43.06	253	P	24	43.80	2.2	
KKN	124.65	37	PKP	58	41.80	-0.9	KLU	2.92	71	eP	45	31.40	-2.5	IMA	43.21	32	eP	24	44.20	1.7
	0.8s	26.00nm												0.7s	8.20nm				4.6mb	
DMN	124.68	37	PKP	58	42.00	-0.8							FBA	45.66	34	P	25	03.40	1.4	
	0.5s	7.00nm													e		25	20.00		
PKI	124.89	37	PKP	58	42.00	-1.3	% APR 19, 1991 06h 46m 43				75±2.49s		GUN	47.71	273	P	25	18.46	-0.6	
	0.9s	23.00nm					16.752 N ±14.3km		60.680 W ±19.4km				KKN	48.23	273	P	25	22.44	-0.5	
GUN	124.90	37	PKP	58	42.60	-0.8	DEPTH = 33.0km (normal)						PKI	48.24	273	P	25	23.68	0.5	
	0.8s	21.00nm				LEEWARD ISLANDS					(92)		DMN	48.45	273	P	25	26.16	1.4	
GBA	128.67	56	PKPd	58	49.30	-1.1	ML 3.3 (FDF).						GKN	48.61	274	P	25	25.08	-0.7	
	1.0s	14.50nm				DEG	0.57	220	iPc	46	54.75	-0.6	INK	50.84	28	eP	25	42.00	-0.1	
KOD	130.55	60	ePKP	58	54.00	-0.5	S			57	03.30		YKA	60.31	31	eP	26	49.20	-1.2	
CHG	139.23	30	ePKP	59	08.10	-2.2	SFG	0.70	225	iPc	46	56.69	-0.5		0.9s	1.10nm			4.0mb	
		e	02	00.40		SEG	0.86	246	eP	47	00.00	0.5	WRA	60.72	189	P	26	52.00	-1.5	
COO	147.41	239	ePKP	59	27.00	2.9	S			47	14.20			0.9s	1.40nm				4.1mb	
BRS	147.46	245	iPKPc	59	27.00	2.7	BPA	1.16	285	eP	47	03.60	-0.2	FFC	70.26	34	eP	27	54.50	0.0
		i(PP)	59	42.50			S			47	20.00			0.8s	7.00nm				4.6mb	
CN8	147.61	230	iPKPc	59	27.40	3.1X	PAG	1.20	233	ePc	47	04.92	0.6	LRM	71.03	46	eP	28	00.30	0.6
SNG	149.73	39	ePKP	59	33.10	5.0X		S		47	21.70		HFS	71.17	336	eP	27	58.50	-1.4	
RMO	151.16	246	iPKPc	59	35.00	5.0X	BBL	1.44	212	iPc	47	07.93	0.1		0.5s	1.60nm			4.2mb	
		i	59	57.90			S			47	25.80		NB2	71.21	337	P	27	59.00	-1.2	
BFD	151.26	221	ePKP	59	33.00	3.2X	NEV	1.85	282	eP	47	13.70	0.0		0.7s	1.90nm			4.1mb	
IPM	152.00	42	ePKPd	59	38.10	6.5X	CRM	2.00	187	eP	47	16.30	0.4	TNP	73.10	54	P	28	12.50	0.5
	0.9s	54.70nm				FDF	2.06	193	eP	47	16.20	-0.5		S.D. = 1.1 on 28 of 28 obs.						
WB2	165.49	256	ePKP	59	45.90	-1.0		0.1s	1.30nm											
	1.4s	4.70nm					S			47	41.10									
S.D. = 1.0 on 182 of 195 obs.						MVM	2.19	185	eP	47	18.90	0.3								
							S.D. = 0.5 on 10 of 10 obs.													
& APR 19, 1991 06h 44m 48.88s						? APR 19, 1991 06h 53m 09					57±11.52s									
60.690 N 151.692 W						16.827 N ±34.7km		60.392 W ±90.7km												
DEPTH = 68.6km						DEPTH = 33.0km (normal)							LEEWARD ISLANDS						(92)	
KENAI PENINSULA, ALASKA					(14)	ML 2.8 (FDF).							DEG	0.73	220	iPc	30	05.40	-0.9	
<AEIC>													S			30	14.90			
NKA	0.23	76	iPc	45	01.11	1.5	DEG	0.82	231	eP	53	23.96	-0.8	SFG	0.86	225	eP	30	07.54	-0.5
RDT	0.37	252	iPd	44	59.85	-0.8	S			53	32.10		SEG	1.01	243	eP	30	10.65	0.4	
		iS	45	09.26			SEG	1.15	249	eP	53	29.70	0.3	PAG	1.35	232	ePc	30	15.63	0.4
DFR	0.50	259	iPd	45	01.08	-0.8	DOG	1.42	236	eP	53	33.30	0.0		S		30	31.60		
		eS	45	11.21		BPA	1.42	279	eP	53	33.20	-0.1	BBL	1.60	213	ePc	30	18.33	-0.4	
SPU	0.52	340	iPd	45	01.35	-0.7	PAG	1.47	237	eP	53	34.20	0.1	NEV	1.93	278	eP	30	24.10	0.5
		eS	45	12.62			S			53	50.80		CRM	2.13	189	eP	30	26.90	0.5	
REF	0.54	248	iPd	45	01.60	-0.7	BBL	1.66	219	eP	53	37.09	0.2	FDF	2.20	195	eP	30	26.68	-0.7
		eS	45	12.19			S			53	56.80			0.1s	1.50nm					
RDN	0.56	252	iPd	45	01.55	-0.9		S.D. = 0.5 on 6 of 6 obs.												
		eS	45	12.25		? APR 19, 1991 07h 05m 54					95±10.53s		MVM	2.32	188	eP	30	29.45	0.3	
RSO	0.57	247	iPd	45	01.94	-0.8	16.791 N ±31.7km		60.466 W ±83.8km											
		iS	45	12.76		DEPTH = 33.0km (normal)							BIM	2.39	192	eP	30	30.90	0.8	
RS2	0.57	247	iPd	45	02.00	-0.7	LEEWARD ISLANDS				(92)									
		iS	45	12.82		ML 2.6 (FDF).							YKA	58.90	334	eP	39	50.00	-0.3	
RDW	0.59	250	iPd	45	02.07	-0.8								0.9s	0.40nm				3.5mb	
		eS	45	13.40										S.D. = 0.6 on 11 of 11 obs.						
CKL	0.60	328	iPd	45	02.25	-0.6	DEG	0.74	230	eP	06	08.20	-0.8	? APR 19, 1991 08h 00m 04.41±12.20s						
		iS	45	13.44			S			06	17.00		16.820 N ±36.5km		60.503 W ±99.0km					
RED	0.60	243	iPd	45	01.99	-0.9	SEG	1.07	249	eP	06	13.90	0.3	DEPTH = 33.0km (normal)						
		eS	45	12.78		DOG	1.34	236	eP	06	17.92	0.4	LEEWARD ISLANDS						(92)	
CRP	0.62	339	iPd	45	02.77	-0.4	BPA	1.36	281	eP	06	17.70	-0.1	ML 2.8 (FDF).						
		eS	45	14.12		PAG	1.39	237	eP	06	18.20	-0.1								
NCT	0.62	259	eP	45	02.01	-1.1		S		06	35.00		DEG	0.73	227	eP	00	17.57	-0.8	
		eS	45	13.14		BBL	1.59	218	eP	06	21.50	0.3	S			00	27.60			
BGL	0.67	330	iPd	45	03.07	-0.6		S.D. = 0.6 on 6 of 6 obs.					SFG	0.87	230	eP	00	19.80	-0.5	
		eS	45	14.94									BPA	1.32	280	eP	00	26.60	0.0	
NNL	0.68	163	ePc	45	04.09	0.4	APR 19, 1991 07h 16m 46		17±0.62s				DOG	1.33	234	eP	00	27.10	0.3	
SLKM	0.75	103	iPc	45	03.88	-0.6	40.615 N ±5.9km		142.471 E ±8.2km				PAG	1.38	235	eP	00	27.80	0.2	
		eS	45	15.95		DEPTH = 60.8 ± 6.7 km								S		00	45.60			
NCG	0.75	343	iPd	45	04.11	-0.5	4.3mb (7 obs.)						BBL	1.59	216	eP	00	30.90	0.2	
		eS	45	16.16		NEAR EAST COAST OF HONSHU, JAPAN(228)								S		00	50.20			
SUA	0.90	30	ePd	45	06.23	-0.2								S.D. = 0.6 on 6 of 6 obs.						
		eS	45	19.78		AQMJ	1.60	269	eP	17	12.50	0.0	? APR 19, 1991 08h 23m 49.86±11.42s							
HOM	1.04	179	ePc	45	07.78	-0.2							16.819 N ±34.5km		60.416 W ±90.4km					
PMS	1.18	61	ePc	45	09.68	-0.3	OFUJ	1.65	202	iP+	17	14.20	0.9	DEPTH = 33.0km (normal)					(92)	
CNPM	1.19	169	iPd	45	09.25	-0.8														
		eS	45	25.05		HOOJ	1.87	19	eP	17	17.20	0.9								
SEW	1.26	117	eP	45	09.88	-1.0														

19d 08h

ML 4.0 (FDF).						TNP 125.11 72 (PKP) 33 00.00 -0.5						MSU 78.79 310 P 24 52.50 0.2					
DEG	0.80	231	eP	24 04.04	-0.6	INK	136.88	33	ePKP	33 22.00	0.4	GLA	79.68	304	P	24 57.80	0.8
			S	24 13.00		YKA	141.02	46	ePKP	33 21.20	-8.2X	LRM	80.84	317	eP	25 03.50	0.3
SFG	0.94	233	eP	24 06.40	-0.2		0.8s		0.50nm			PLM	81.41	304	eP	25 07.30	1.0
SEG	1.12	249	eP	24 09.74	0.4	BUD	145.11	282	ePKP	33 38.10	1.2		e			25 10.90	11km
			S	24 22.60			S.D. = 1.3	on	12 of 13 obs.			TNP	82.57	309	eP	25 12.90	0.6
BPA	1.40	280	eP	24 13.20	-0.1	-----							e			25 16.00	10km
PAG	1.44	237	eP	24 14.20	0.2	% APR 19, 1991	10h	01m	11.28±1.95s			BONR	83.39	309	eP	25 16.90	0.3
			S	24 30.80			1.060 S ± 9.1km		78.281 W ± 27.5km				e			25 19.10	7km
BBL	1.64	219	eP	24 17.20	0.4	DEPTH =	33.0km		(normol)			ARN	85.82	308	P	25 29.30	0.8
	S.D. = 0.5	on	6 of 6 obs.			ECUADOR			(107)			ORV	86.11	310	P	25 29.80	-0.1
? APR 19, 1991 08h 38m 32.20±4.52s						TUNG	0.39	205	P	01 20.60	0.0	PNT	86.34	320	eP	25 30.00	-0.8
	17.458 N ± 29.0km		61.141 W ± 23.9km			VC1	0.44	343	iPd	01 20.20	-1.2	YKA	86.48	333	eP	25 29.40	-1.8
	DEPTH = 10.0km		(geophysicist)			QUIL	0.71	295	P	01 25.30	0.0		0.8s		3.80nm	4.6mb	
LEEWARD ISLANDS			(92)				S		01 34.80			LBFM	86.66	312	P	25 32.40	-0.4
ML 3.5 (FDF).						OUR	0.92	344	eP	01 29.00	0.8	INK	94.99	338	eP	26 11.00	0.2
BPA	0.80	239	ePc	38 47.73	0.0	YANA	0.98	343	eP	01 29.60	0.4	ASPA	151.92	168	iPKPc	32 37.40	-0.7
			S	38 58.80			S		01 41.70				1.3s		5.00nm		
SEG	1.11	198	eP	38 52.70	-0.2		S.D. = 1.1	on	5 of 5 obs.			WRA	155.61	166	PKP	32 47.00	3.7X
DEG	1.14	176	eP	38 53.00	-0.6	% APR 19, 1991	10h	01m	49.29±0.90s				0.4s		2.30nm		
SFG	1.20	183	eP	38 54.80	0.3		43.128 N ± 11.9km		0.630 W ± 6.7km			WB2	155.62	166	ePKP	32 42.00	-1.3
NEV	1.40	257	iPc	38 57.66	-0.2	DEPTH =	10.0km		(geophysicist)				e		32 51.30		
			S	39 15.10		PYRENEES			(378)				S.D. = 1.2	on	38 of 41 obs.		
DOG	1.49	198	eP	38 59.50	0.5	ESCF	0.06	141	Pg	01 51.57	-0.1	? APR 19, 1991 10h 30m 01.44±0.91s					
PAG	1.51	200	eP	38 59.20	-0.2		Sg	01 53.69					44.718 N ± 8.6km		8.513 E ± 7.9km		
			S	39 19.50		ATE	0.07	232	Pg	01 51.70	0.0		DEPTH = 10.0km		(geophysicist)		
BBL	1.95	190	eP	39 06.10	0.4		Sg	01 53.58				NORTHERN ITALY			(545)		
	S.D. = 0.4	on	8 of 8 obs.			OGE	0.12	70	Pg	01 52.37	0.1	CKI	0.34	210	P	30 08.60	0.2
? APR 19, 1991 09h 05m 37.45±10.90s						MADF	0.14	277	Pg	01 52.54	-0.1		eSg	30 13.10			
	16.776 N ± 33.6km		60.504 W ± 87.6km				Sg	01 55.06				BOB	0.67	85	P	30 14.70	-0.1
	DEPTH = 33.0km		(normol)			ISSF	0.16	231	Pg	01 53.06	0.0		eSg	30 22.80			
LEEWARD ISLANDS			(92)				Sg		01 56.20			DOI	0.93	257	P	30 19.00	-0.3
ML 2.6 (FDF).							S.D. = 0.1	on	5 of 5 obs.			ORO	0.98	338	P	30 20.30	0.1
DEG	0.70	229	eP	05 50.17	-0.8	APR 19, 1991 10h 12m 47.29±0.39s							eSg	30 34.50			
			S	05 59.20			3.887 S ± 7.9km		39.740 W ± 8.4km				S.D. = 0.4	on	4 of 4 obs.		
SEG	1.03	249	eP	05 55.90	0.3	DEPTH =	10.7km		(4 depth phases)			% APR 19, 1991	11h	12m	17.96±0.66s		
BPA	1.32	282	eP	05 59.70	-0.1	4.8mb (9 obs.)							40.466 N ± 7.9km		28.959 E ± 6.0km		
PAG	1.35	237	eP	06 00.40	0.2	BRAZIL			(528)				DEPTH = 10.0km		(geophysicist)		
			S	06 17.50			Felt (VI) in the Iroucuba oreo.					TURKEY			(366)		
BBL	1.56	217	eP	06 03.60	0.4		Also felt at Sobrol.					MD 2.8 (ISK).					
	S.D. = 0.7	on	5 of 5 obs.			SOB1	5.41	192	ePc	14 07.40	-2.6	YLV	0.33	72	ePg	12 24.50	-0.4
? APR 19, 1991 09h 13m 58.71±0.74s							(S)		15 06.10			ISK	0.60	7	ePg	12 30.50	0.4
	54.676 S ± 10.0km		143.338 E ± 34.7km			BMA	19.18	192	(P)	17 17.00	3.2X	HRT	0.65	56	iPg	12 31.00	0.1
	DEPTH = 10.0km		(geophysicist)				eS		20 33.10			BNT	0.80	262	ePg	12 33.40	-0.1
	5.1mb (4 obs.)		4.4MsZ (1 obs.)			VAO	20.25	200	eP	17 28.50	2.8	EDC	0.84	262	iPg	12 34.00	-0.3
WEST OF MACQUARIE ISLAND			(701)				eS		20 55.00				eSg	12 46.00			
CENTROID, MOMENT TENSOR			(HRV)			PPD	21.24	211	eP	17 37.30	1.4	DST	0.90	197	ePg	12 35.50	0.3
Data Used: GDSN							eS		21 09.40				S.D. = 0.4	on	6 of 6 obs.		
L.P.B.: 14S, 25C						SIV	24.18	239	P	18 05.00	0.2	? APR 19, 1991 11h 17m 35.49±1.62s					
Centroid Location:							i		18 15.10		37kmX		33.510 N ± 47.9km		56.838 E ± 23.5km		
Origin Time	09:14: 2.3	1.1				CCH	29.15	241	eP	18 51.00	-0.2		DEPTH = 33.0km		(normal)		
Lot 54.855 0.10	Lon 143.65E	0.14				ZOBO	30.48	244	P	19 03.00	-0.4		4.6mb (5 obs.)				
Dep 15.0 FIX Half-duration 1.5						LPB	30.55	244	P	18 51.00	-12.8X	IRAN			(348)		
Moment Tensor: Scale 10**16 Nm							i		27 49.00			TEH	5.01	298	eP	18 50.00	-0.6
Mrr=-1.55 0.32	Mtt= 2.94 0.43					LIC	36.09	74	Pd	19 51.74	0.4	QUE	9.22	108	eP	19 47.00	-2.3
Mrf=-1.39 0.41	Mrt= 0.00 0.00						0.7s		17.00nm		5.0mb		e(S)	22 04.70			
Mrf= 0.00 0.00	Mtf=-5.07 0.39					TIC	36.21	73	P	19 52.66	0.3		e	22 44.50			
Principal Axes:						KIC	36.40	74	Pd	19 54.58	0.6	GKN	24.47	95	P	22 52.84	-0.1
T Vol= 6.29	Pig= 0	Azm=213					0.7s		29.50nm		5.2mb		0.7s		19.00nm	4.8mb	
N -1.55	90	180				LKO	36.55	68	Pd	19 55.34	0.0	DMN	25.00	96	P	22 59.76	1.7
P -4.74	0	123					0.6s		13.00nm		4.9mb	PKI	25.26	96	P	23 01.74	1.1
Best Double Couple: Mo=5.5*10**16						LHS	54.31	318	P	22 17.00	1.8		0.8s		24.00nm	4.9mb	
NP1: Strike=258 Dip=90 Slip=-180						NA2	54.65	323	P	22 20.90	2.4	GUN	25.54	95	P	23 03.24	0.0
NP2: 348 90 0						RSCP	58.16	317	P	22 45.40	1.6		0.9s		68.00nm	5.2mb	
						SCH	62.65	343	eP	23 13.00	-1.1	CLL	36.29	313	iP	24 39.00	1.4
BFD	17.51	358	eP	18 05.00	0.7	FVM	62.73	317	P	23 12.40	-2.5	CHTO	40.24	101	P	25 11.00	0.8
ADE	19.97	349	eP	18 35.00	1.2		pP		23 17.00		15km	INK	78.20	4	eP	29 32.00	-0.7
COO	24.86	18	eP	19 23.00	0.5	KHC	70.08	34	eP	24 02.00	0.5	FBA	80.04	10	P	29 42.00	0.0
ASPA	31.76	343	eP	20 23.80	-1.3	ZST	71.63	36	eP	24 10.80	-0.1		0.9s		2.00nm	4.1mb	
	0.8s	9.00nm		4.7mb			e		49 35.00		-0.6	YKA	84.08	356	eP	30 02.30	-1.5
Z	21s	0.80um		4.4MsZ		ANMO	73.41	308	P	24 21.30	-0.6		0.9s		1.10nm	4.0mb	
WB2	35.34	345	eP	20 54.80	-1.3		0.8s		7.93nm		4.8mb		S.D. = 1.4	on	11 of 11 obs.		
	0.6s	23.90nm		5.2mb		GOL	74.05	313	P	24 25.00	-0.6	APR 19, 1991 11h 25m 34.55±0.21s					
	e	23 09.10					0.6s		4.12nm		4.6mb		14.883 S ± 6.9km		174.953 W ± 4.3km		
WRA	35.34	345	P	20 54.00	-2.1	RSSD	74.64	318	P	24 27.00	-1.9		DEPTH = 19.5km		(4 depth phases)		
	0.6s	20.90nm		5.2mb		HFS	76.16	24	eP	24 37.00	0.0		5.6mb (34 obs.)		6.0MsZ (33 obs.)		
SPA	35.51	180	iPd	20 56.40	-0.9	FFC	77.60	328	iPd	24 44.60	-0.5	SAMOA ISLANDS REGION			(169)		
	1.0s	20.00nm		4.9mb			0.7s		9.00nm		5.0mb	Ms 5.8 (BRK), 5.8 (PAS).					
	i	21 10.60				BW06	78.00	315	P	24 47.00	-0.9						
NVL	50.17	199 (P)		22 56.00	0.3		0.9s		6.18nm		4.7mb						
CHG	82.41	318	eP	26 23.80	1.7	DAU	78.58	312	P	24 51.00	-0.2						

19d 11h

Mo=1.4*10**18 Nm (PPT).					1.4s 34.88nm					5.3mb					E 20s 6.90um				
CENTROID, MOMENT TENSOR (HRV)					Z 20s 6.03um					5.8Msz					SLKM 77.72 12 eP 37 30.70 -0.7				
Data Used: GDSN					eS 45 22.00										RMW 78.11 34 P 37 35.80 1.9				
L.P.B.: 235, 64C					MTMJ 67.86 320 eP 36 32.50 -1.4										HKC 78.64 297 P 37 46.00 8.8X				
Centroid Location:					SMY 67.99 353 P 36 45.00 10.7X					5.9Msz					HKC 78.64 297 eP 37 32.00 -5.2X				
Origin Time 11:25:37.3 0.2					Z 20s 8.00um					5.9Msz					eS 47 40.00				
Lot 15.01S 0.02 Lon 174.90W 0.02					KUSJ 68.53 329 eP 36 36.90 -0.9					-0.9					NJ2 78.66 308 eP 37 37.00 -0.1				
Dep 15.0 Flx Half-duration 4.2					ASAJ 70.30 329 eP 36 49.60 1.0					1.0					Z 20s 3.60um 5.7Msz				
Moment Tensor: Scale 10**18 Nm					BAG 70.83 294 eP 36 50.00 -2.7					-2.7					N 15s 1.90um				
Mrr=-0.12 0.02 Mtt=-0.07 0.03					SYP 71.69 45 eP 37 07.00 9.5X					9.5X					E 16s 2.50um				
Mff= 0.19 0.03 Mrt= 0.15 0.07					GCC 71.76 42 e(P) 36 57.40 -0.2					-0.2					PP 37 47.00				
Mrf=-0.46 0.07 Mtf= 1.52 0.02					PRS 71.76 43 eP 36 57.90 0.2					0.2					SIT 78.87 21 P 37 45.00 7.3X				
Principal Axes:					PCC 71.78 42 eP 36 57.70 0.0					0.0					Z 18s 11.90um 6.3Msz				
T Vol= 1.62 Plg= 8 Azm=131					SAO 71.96 43 eP 37 06.20 7.3X					7.3X					PMR 78.93 12 eP 37 38.20 0.3				
N -0.04 72 16					BRK 72.08 41 eP 36 59.60 0.1					0.1					1.3s 119.50nm 5.8mb				
P -1.58 16 224					Z 20s 5.00um					5.8Msz					Z 20s 2.00um 5.4Msz				
Best Double Couple:Mo=1.6*10**18					eS 46 26.00					46 26.00					TTA 78.96 9 eP 37 38.10 -0.2				
NP1:Strike=267 Dip=73 Slip= -6					e(ScS) 47 04.00					47 04.00					MSU 79.12 45 P 37 40.80 0.9				
NP2: 358 84 -163					e 49 59.00					49 59.00					ANM 79.54 4 eP 37 42.60 1.4				
					eSS 51 15.00					51 15.00					GZH 79.63 297 P 37 40.00 -2.6				
					eLR 58 23.00					58 23.00					Z 38s 7.70um 5.8Msz				
					iPd 37 00.00 0.4					0.4					CN2 79.73 321 Pc 37 42.00 -0.7				
					583.00nm					6.2mb					1.0s 20.00nm 5.1mb				
					5.00um					5.8Msz					Z 24s 14.50um 6.2Msz				
					3.60um										N 20s 3.00um				
					3.60um										E 20s 4.70um				
					eS 46 25.00					46 25.00					ePP 37 51.00				
					e 46 35.00					46 35.00					eS 47 46.00				
					e 46 50.00					46 50.00					SNY 79.89 318 iPc 37 44.00 0.4				
					eSS 51 00.00					51 00.00					1.8s 54.00nm 5.3mb				
					eLQ 55 16.00					55 16.00					Z 22s 4.20um 5.7Msz				
					eLR 57 40.00					57 40.00					N 16s 2.40um				
					eP 37 00.20 0.2					0.2					SKS 47 54.00				
					eS 37 00.00 -0.3					-0.3					BALM 80.01 15 eP 37 44.20 0.2				
					eS 46 36.00					46 36.00					TOA 80.02 13 eP 37 42.90 -1.1				
					e(ScS) 47 08.00					47 08.00					PNT 80.39 33 eP 37 46.00 -0.2				
					eLR 58 08.00					58 08.00					DAU 80.66 44 P 37 49.80 1.6				
					eP 37 00.60 0.2					0.2					PV09 81.23 46 eP 37 50.50 -0.7				
					eP 37 01.00 0.4					0.4					OIZ 81.32 292 eP 37 50.00 -1.6				
					eP 37 02.50 0.7					0.7					E 23s 8.40um				
					eP 37 04.00 0.5					0.5					III 81.36 68 (P) 37 54.00 1.9				
					ePP 39 42.00					39 42.00					CRX 81.51 67 (P) 37 55.00 2.0				
					eS 46 37.00					46 37.00					ANMO 81.63 51 ePc 37 53.40 0.2				
					ePS 47 06.00					47 06.00					2.0s 661.76nm 6.3mb				
					eScS 47 24.00					47 24.00					Z 20s 10.64um 6.2Msz				
					eLg 56 09.00					56 09.00					TIA 81.73 311 eP 37 54.00 0.6				
					eLR 57 44.00					57 44.00					Z 24s 5.90um 5.9Msz				
					eP 37 04.40 0.7					0.7					N 15s 2.80um				
					eP 37 07.00 2.5X					2.5X					E 20s 4.30um				
					eP 37 08.00 2.6X					2.6X					FBA 82.18 11 eP 37 54.30 -0.8				
					eP 37 05.00 -1.4					-1.4					1.0s 77.60nm 5.7mb				
					ePd 37 06.20 -0.2					-0.2					IMA 82.27 9 eP 37 56.80 1.0				
					eP 37 06.00 -0.8					-0.8					2.8s 368.80nm 6.0mb				
					eP 37 07.00 0.3					0.3					LRM 82.55 39 eP 37 57.60 -0.2				
					ePc 37 07.30 0.3					0.3					BW06 82.90 42 e(P) 37 58.50 -1.2				
					eP 37 07.00 -0.1					-0.1					1.5s 125.86nm 5.8mb				
					ePd 37 07.00 -0.3					-0.3					i 38 04.50 19km				
					ePP 40 05.30					40 05.30					BJI 84.03 314 eP 38 06.00 0.9				
					eS 46 49.00					46 49.00					1.5s 58.00nm 5.6mb				
					e(ScS) 47 17.00					47 17.00					Z 24s 6.03um 5.9Msz				
					eLR 58 24.00					58 24.00					N 16s 2.38um				
					eP 37 07.80 -0.3					-0.3					GOL 84.38 47 P 38 08.40 1.1				
					eP 37 09.90 -0.7					-0.7					1.3s 67.71nm 5.7mb				
					eP 37 11.00 -0.1					-0.1					Z 19s 6.37um 6.0Msz				
					eP 37 13.00 0.8					0.8					GLD 84.51 47 ePc 38 09.50 1.7				
					eP 37 12.00 -0.7					-0.7					1.5s 171.88nm 6.1mb				
					eP 37 14.40 1.3					1.3					AIA 84.97 157 eP 38 10.60 1.2				
					eP 37 15.00 0.7					0.7					IPM 85.40 276 ePc 38 13.20 0.6				
					eP 37 16.00 0.7					0.7					TIY 85.78 311 eP 38 15.00 0.9				
					eP 37 19.00 1.4					1.4					Z 20s 6.80um 6.0Msz				
					20.83nm					5.2mb					N 18s 2.60um				
					eP 37 18.60 -1.1					-1.1					E 18s 3.20um				
					117.42nm					5.7mb					PP 41 30.00				
					e 37 25.50 22km					22km					S 48 44.00				
					Pc 37 24.00 -0.9					-0.9					EDM 85.84 32 eP 38 15.00 1.0				
					7.80um					6.0Msz					GYA 86.48 298 P 38 19.00 1.2				
					1.60um										Z 40s 4.40um 5.6Msz				
					4.60um										N 20s 1.40um				
					SP 37 35.50					37 35.50					E 20s 3.60um				
					SKS 47 28.00					47 28.00					PP 41 38.00				
					eP 37 27.60 -1.1					-1.1					SKS 48 42.00				
					eP 37 26.80 -2.3					-2.3					S 48 50.00				
					P 37 31.00 -0.5					-0.5					SS 54 28.00				
					eP 37 30.50 -1.1					-1.1					SNG 86.48 278 eP 38 22.00 4.1X				
					1100.00nm					6.0mb X					RSSD 87.10 43 eP 38 20.50 -0.1				
					12.00um					5.9Msz					1.8s 111.61nm 5.8mb				
					6.40um										i 38 26.90 20km				

XAN	87.12	306	eP	38	20.70	0.0		N	18s	1.50um				1.7s	154.00nm						
	N	17s	2.10um					E	18s	0.50um					i	45	20.30				
	E	15s	1.30um							i	45	29.00			i	45	36.70				
MEO	87.56	53	e(P)	38	24.30	1.5	SPC	143.59	343	e(PKP)	45	06.70	-3.3X		e	48	42.00				
HHC	87.58	313	eP	38	23.00	0.2				e	45	16.70		BEO	147.42	339	ePKP	45	20.00	3.8X	
	1.4s		37.00nm		5.5mb		MOX	143.94	353	ePKP	45	11.00	0.7	GRC	147.64	3	PKP	45	19.13	2.7X	
	Z	24s	6.60um		6.0MszX			1.8s		50.00nm				LOR	147.70	2	ePKP	45	17.40	0.8	
	N	14s	1.10um					Z	16s	2.10um		6.0MszX			1.7s		194.85nm				
	E	13s	1.30um					N	16s	1.60um				Z	20s		9.25um		6.6Msz		
			PP	38	37.00			E	18s	1.50um				OGA	147.72	352	ePKP	45	19.50	2.6X	
			SKS	48	49.00		BNS	143.97	358	ePKPc	45	06.00	-4.3X	FVI	147.73	350	PKP	45	20.10	3.5X	
MAW	87.80	199	eP	38	23.00	-0.3		1.5s		158.00nm				PTJ	147.75	346	ePKP	45	19.50	2.7X	
	1.0s		28.00nm		5.5mb					i	45	11.80		ZAG	147.82	346	ePKP	45	21.50	4.7X	
	Z	19s	8.00um		6.2Msz		VR1	144.13	334	ePKP	45	08.00	-2.8	SSF	147.89	2	ePKP	45	18.10	1.2	
YAK	88.03	337	eP	38	22.90	-1.4	PRU	144.14	350	PKPc	45	08.20	-2.4		1.7s		286.75nm				
			e	41	53.00			2.0s		74.20nm				LJU	147.93	348	ePKPc	45	22.60	5.6X	
INK	88.13	14	eP	38	25.00	0.3		Z	22s	3.40um		6.1Msz		LBF	147.98	1	ePKP	45	18.20	1.1	
BTO	88.58	313	eP	38	29.00	1.4		N	20s	2.20um					1.4s		130.70nm				
	N	18s	2.70um					E	18s	1.00um				VOY	148.07	348	ePKP	45	22.60	5.2X	
	E	18s	1.60um							e	45	20.70		MFF	148.08	7	ePKP	45	18.70	1.5	
			PP	38	40.00					e	45	24.00			1.8s		189.90nm				
			eSKS	48	57.00		UCC	144.17	1	PKP+	45	12.00	1.4	AVF	148.16	2	ePKP	45	18.70	1.4	
KMI	89.45	296	eP	38	31.50	-0.7	MEM	144.36	359	PKP	45	10.10	-0.8		1.3s		54.15nm				
	2.5s		90.00nm		5.6mb		SNF	144.46	1	PKP	45	10.60	-0.5	CEY	148.24	347	ePKPc	45	23.90	6.3X	
	Z	40s	9.60um		5.9MszX		NAI	144.72	246	iPKP	45	15.00	2.0	VBY	148.28	346	ePKP	45	21.20	3.6X	
	E	20s	4.90um				MLR	144.77	334	ePKPc	45	10.00	-2.0	SMF	148.32	2	ePKP	45	18.80	1.2	
			SP	38	48.50		ISR	144.79	333	ePKPc	45	14.00	2.0		1.5s		73.10nm				
			SS	49	30.00		PSZ	144.84	343	iPKP	45	10.70	-1.3	BGF	148.37	3	ePKP	45	19.20	1.5	
TUL	90.08	53	e(P)	38	38.90	4.2X	DOU	144.88	1	PKP	45	12.60	0.7		1.2s		83.30nm				
	1.4s		38.40nm		5.4mb			Z	19s	1.20um		5.7Msz		TRI	148.41	348	ePKP	45	31.00	13.3X	
	Z	20s	8.83um		6.2Msz					e	45	20.00				eLR	35	38.00			
			LR	07	12.10		GRF	144.92	353	ePKP	45	09.70	-2.3	CTI	148.44	351	PKP	45	21.80	3.8X	
YKA	90.23	24	eP	38	33.10	-1.6		Z	21s	2.80um		6.0Msz		PRNI	148.49	304	ePKP	45	22.00	3.6X	
	1.9s		19.90nm		5.0mb					e	45	14.60		LSF	148.59	5	ePKP	45	19.40	1.3	
CD2	90.26	302	eP	38	36.90	1.2	ABH	145.04	357	ePKP	45	11.98	-0.2		1.6s		192.80nm				
	Z	20s	4.81um		5.9Msz		KHC	145.14	350	iPKP	45	11.20	-1.2	TCF	148.60	4	ePKP	45	19.70	1.6	
	E	18s	5.40um					1.4s		73.00nm				1.5s		117.50nm					
CHG	91.12	289	eP	38	40.00	0.2		Z	22s	3.90um		6.1Msz		MAF	148.69	3	ePKP	45	20.20	2.0	
CHTO	91.12	289	P	38	39.90	0.1		N	21s	2.10um					1.7s		238.95nm				
			e	38	51.80	38kmX		E	21s	1.60um				MBH	148.80	303	ePKP	45	22.00	3.0X	
					0.6					e	45	28.50		AGO	148.89	3	PKP	45	20.30	1.7	
LZH	91.71	307	P	38	43.00	0.6	WET	145.23	351	iPKPc	45	12.00	-0.6	PLDF	148.99	2	PKP	45	24.11	5.3X	
	2.0s		36.00nm		5.4mb			Z	19s	3.00um		6.1Msz		ORO	149.26	356	PKP	45	26.50	7.2X	
FFC	92.50	34	eP	38	43.00	-2.4				i	45	25.00		LPL	149.43	358	ePKP	45	23.00	3.3X	
	2.2s		100.00nm		5.8mb		BBTK	145.28	321	ePKP	45	13.00	0.0		1.2s		50.60nm				
NVL	94.44	182	(P)	39	02.00	7.9X		WLF	145.30	359	PKPc	45	11.70	-0.8	LPG	149.45	358	ePKP	45	23.30	3.5X
			eS	50	10.00			TNR	145.31	336	ePKPd	45	12.00	-0.8		1.3s		68.60nm			
			ePS	52	02.00			ZST	145.32	346	ePKP	45	12.30	-0.4	LSD	149.47	357	PKP	45	27.54	7.7X
			eSS	56	36.00			CMP	145.32	335	ePKP	45	12.00	-0.8	SKO	149.51	335	ePKP	45	22.20	2.6X
FVM	94.79	52	P	39	02.00	5.7X		SRO	145.37	344	iPKP	45	12.60	-0.2			i	45	26.40		
GTA	95.69	309	eP	39	00.00	-0.6		VKA	145.44	347	iPKPd	45	13.50	0.6	RJF	149.53	5	ePKP	45	22.40	2.9X
	Z	22s	11.60um		6.3Msz			2.0s		224.00nm					1.5s		125.35nm				
	E	23s	9.80um					Z	21s	1.60um		5.8Msz		Z	19s		6.75um		6.5Msz		
			SP	39	15.50					i	45	25.00		VAY	149.58	333	ePKP	45	26.00	6.3X	
			PP	42	48.20					i	45	56.90		LBL	149.71	3	PKP	45	23.29	3.5X	
			SKS	49	34.00		BUD	145.48	343	e(PKP)	45	12.00	-1.0	RSP	149.77	357	PKP	45	27.03	7.0X	
IRK	96.07	322	eP	39	10.00	8.1X		BUC	145.56	333	ePKP	45	30.00	16.8X	LFF	149.82	6	ePKP	45	22.90	2.9X
			e	40	49.00	429kmX		DEV	145.64	338	ePKP	45	14.00	0.7		1.8s		241.70nm			
			ePP	42	53.00			FLN	145.91	7	ePKP	45	12.00	-1.7	BNI	149.90	358	PKP	45	27.20	6.9X
			e	47	10.00				1.8s		500.65nm			CAF	149.95	4	ePKP	45	23.70	3.5X	
			eS	49	34.00			Z	19s	4.25um		6.2Msz			1.8s		146.75nm				
			ePS	50	28.00			GWF	145.94	357	PKP	45	12.79	-1.0	BOB	149.98	354	PKP	45	29.70	9.4X
			ePPS	51	22.00			KMR	146.08	349	iPKP+	45	14.30	0.3	RRL	150.02	358	PKP	45	28.87	8.3X
			e	51	49.00					ipPKP	45	26.70		LPO	150.12	6	ePKP	45	23.70	3.3X	
			eSS	56	04.00			LDF	146.12	6	ePKP	45	12.80	-1.2		2.0s		279.90nm			
			e	57	34.00				1.7s		294.10nm			PCP	150.29	355	PKP	45	27.95	7.2X	
			e	58	50.00		GRR	146.24	7	ePKP	45	13.30	-0.9	MME	150.39	352	PKP	45	30.40	9.2X	
RSCP	98.02	55	P	39	20.00	9.0X			2.0s		396.50nm			PZZ	150.42	357	PKP	45	29.18	8.1X	
	Z	20s	7.34um		6.2Msz			FUR	146.42	352	ePKP	45	15.80	1.2	CKI	150.43	355	PKP	45	37.70	16.8X
OBN	133.03	336	ePKP	44	38.00	-12.1X		Z	18s	4.00um		6.2Msz		SFI	150.48	350	PKP	45	29.80	8.9X	
	Z	22s	2.20um		5.8Msz			Uzd	146.42	343	ePKP	45	16.20	1.6	OHR	150.50	335	ePKP	45	15.00	-6.2X
	N	20s	1.10um					BHL	146.50	310	PKP	45	17.00	1.8	PGD	150.55	350	PKP	45	30.50	9.2X
	E	20s	0.40um					WLS	146.51	357	PKP	45	14.81	0.1	ROB	150.59	356	PKP	45	28.77	7.5X
			e	44	52.00			CDf	146.52	357	PKP	45	14.91	0.1	FIN	150.65	355	PKP	45	28.77	7.5X
			i	45	00.00			SRE	146.56	336	ePKP	45	30.00	15.2X	ARV	150.69	348	PKP	45	30.10	8.7X
			ePP	47	08.00			LPF	146.57	7	ePKP	45	14.30	-0.4	FIR	150.72	351	ePKP	45	29.00	7.7X
			ePKS	48	24.00				1.3s		101.10nm			IMI	150.97	356	PKP	45	28.15	6.3X	
			e	50	16.00			BHG	146.62	350	ePKP	45	17.00	2.1X	PTO	151.28	22	ePKP	45	29.00	6.8X
			e	51	17.00				1.2s		36.00nm			CDR	151.30	359	ePKPc	45	31.70	9.5X	
			e	59	12.00			ECH	146.72	357	PKP	45	16.25	1.2	HLW	151.58	306	ePKP	45	29.00	5.9X
			eSS	05	00.00			VITF	146.75	359	PKP	45	16.61	1.6	EPF	151.66	7	ePKP	45	27.00	4.7X
			eSSS	09	44.00		HAU	146.96	358	ePKP	45	15.30	-0.1		1.9s		90.60nm				
KSP	143.00	348	ePKPc	45	05.00	-3.7X			1.3s		79.40nm			TOL	153.85						

19d 11h

eSS 09 10.00
eSSS 14 35.00
AVE 158.46 29 ePKP 45 22.00 -10.1X
i 46 09.50
IFR 159.28 25 iPKP 45 35.00 1.7
i 46 11.00
TIO 160.44 33 iPKP 45 53.50 19.0X
i 46 20.00
S.D. = 1.2 on 167 of 253 obs.

APR 19, 1991 12h 51m 57.27±0.71s
42.070 N ± 7.6km 106.856 W ± 6.9km
DEPTH = 5.0km (geophysicist)
2.9mb (1 obs.)

WYOMING (460)
ML 2.9 (GS).

BW06 2.12 290 eP 52 34.50 0.4
GOL 2.62 154 eP 52 41.00 -0.2
GLD 2.63 151 eP 52 42.00 0.7
RSSD 2.91 44 eP 52 45.00 -0.3
DAU 3.71 245 eP 52 56.70 -0.1
PV09 3.97 207 eP 53 00.00 -0.4
MSU 5.40 231 eP 53 20.50 -0.2
YKA 20.97 350 eP 56 41.00 -2.4X
0.7s 0.40nm 2.9mb
S.D. = 0.5 on 7 of 8 obs.

? APR 19, 1991 13h 24m 03.58±1.76s
44.594 N ± 12.9km 7.234 E ± 19.6km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.4 (GEN).

PZZ 0.13 227 P 24 06.90 0.0
S 24 09.27
STV 0.36 169 P 24 10.78 -0.2
S 24 15.39
ENR 0.39 160 P 24 11.75 0.1
S 24 17.67
RRL 0.46 316 P 24 12.92 0.0
S.D. = 0.2 on 4 of 4 obs.

* APR 19, 1991 13h 24m 52.07±0.63s
20.569 S ± 9.8km 68.801 W ± 9.3km
DEPTH = 106.4km (4 depth phases)
4.4mb (4 obs.)
CHILE-BOLIVIA BORDER REGION (124)

ANT 3.46 205 iP 25 45.70 0.7
iS 26 34.00
CCH 4.05 39 Pc 25 55.00 1.7
LPB 4.07 10 iPc 25 56.00 2.3
ZOBO 4.32 9 iPc 25 58.00 0.6
ARE 4.82 328 iP 26 03.00 -0.9
iS 26 53.50

SIV 8.64 59 iPc 26 53.80 -2.2
NNA 11.50 317 eP 27 35.80 1.4
0.8s 5.22nm 4.3mb

PPD 16.36 98 eP 28 39.60 2.7
e 28 40.50

BMA 23.00 100 eP 29 50.10 1.6
FVM 61.69 341 P 34 59.30 -1.8
pP 35 25.30 105km

TUL 61.71 335 e(P) 35 25.00 23.7X
0.6s 8.40nm

LIC 68.03 74 P 35 41.04 -1.4
TIC 68.22 74 P 35 42.24 -1.4

KIC 68.35 74 Pc 35 43.30 -1.1
LKO 68.96 71 Pc 35 46.88 -1.3

GLD 68.97 331 P 35 48.40 0.4
RSSD 72.01 334 P 36 05.40 -0.9

TNP 73.96 322 eP 36 18.40 0.6
0.8s 3.24nm 4.2mb

SCH 75.10 1 eP 36 22.00 -1.7
pP 36 50.00 109km

ORV 77.44 321 eP 36 37.50 0.3
e 37 05.00 107km

FFC 80.18 341 eP 36 52.00 0.3
1.0s 7.00nm 4.4mb

PNT 82.92 329 eP 37 08.00 1.9
FRB 84.03 0 eP 37 10.00 -1.3

YKA 90.35 341 eP 37 41.00 -0.9
0.9s 5.70nm 4.7mb

FORR 126.36 198 iPKPc 43 51.20 6.9X

0.4s 24.00nm
WARB 131.17 199 ePKP 44 05.50 11.8X
WRA 133.80 211 PKP 43 59.00 0.2
0.9s 2.20nm
MAT 151.57 310 ePKP 44 35.00 6.0X
S.D. = 1.5 on 24 of 28 obs.

APR 19, 1991 14h 29m 42.71±0.20s
44.816 N ± 1.9km 6.812 E ± 2.6km
DEPTH = 10.0km (geophysicist)

FRANCE (538)
ML 2.9 (GEN), 2.8 (LDG), MD 2.3 (STR).

RRL 0.11 349 Pd 29 46.01 0.3
S 29 47.96
BNI 0.26 338 P 29 47.90 -0.3
eSg 29 52.20
PZZ 0.37 146 P 29 50.07 -0.4
S 29 55.76
DOI 0.44 135 P 29 51.50 -0.2
eSg 29 58.00
RSP 0.46 43 Pc 29 52.76 0.7
S 29 59.76
STV 0.68 147 P 29 55.55 -0.7
S 30 05.19

LPG 0.68 356 Pg 29 56.20 -0.3
Sg 30 06.10

LSO 0.69 21 P 29 56.41 -0.1
S 30 06.22

LPL 0.70 355 Pg 29 56.50 -0.2
Sg 30 06.60

ENR 0.73 143 P 29 56.61 -0.6
S 30 06.71

TOUF 0.86 159 Pg 29 59.08 -0.4
ROB 0.92 124 P 30 00.37 0.1
S 30 12.85

AUTN 0.93 152 Pg 30 00.05 -0.6
MVIF 0.95 165 Pg 30 00.92 0.0
Sg 30 14.81

SAOF 0.99 147 Pg 30 01.52 0.1
Sg 30 15.31

AURF 1.00 158 Pg 30 01.89 0.2
SBF 1.05 155 Pg 30 03.10 0.5
Sg 30 17.50

CALN 1.07 177 Pg 30 02.98 0.1
Sg 30 19.21

CKI 1.12 110 P 30 04.00 0.3
eSg 30 19.00

REVF 1.15 159 Pg 30 05.12 0.9
FIN 1.17 121 P 30 04.68 0.1
S 30 19.37

FRF 1.26 185 Pg 30 06.20 0.1
Sg 30 22.50

PCP 1.27 102 P 30 06.63 0.4
S 30 23.25

CDR 1.37 214 ePg 30 08.40 0.6
eSg 30 25.70

LRG 1.40 194 Pg 30 08.60 0.4
Sg 30 27.60

LMR 1.50 188 Pg 30 10.00 1.2
Sg 30 29.80

PGF 2.77 144 Pn 30 26.51 -1.5
SMF 2.77 312 Pn 30 28.60 0.6
Sg 31 08.60

LBF 2.94 319 Pn 30 30.60 0.3
Sg 31 15.40

AVF 3.12 310 Pn 30 33.40 0.5
Sg 31 20.90

LOR 3.20 321 Pn 30 34.20 0.2
Sg 31 21.80

SSF 3.22 315 Pn 30 34.20 -0.1
Sg 31 22.40

BGF 3.28 303 Pn 30 35.30 0.1
Pg 30 44.30

MAF 3.30 297 Pn 30 34.10 -1.4
Sg 31 23.80

CAF 3.38 274 Pn 30 36.00 -0.6
Pg 30 43.50

TCF 3.55 296 Pn 30 38.70 -0.3
Sg 31 33.50

S.D. = 0.6 on 36 of 36 obs.

? APR 19, 1991 15h 00m 01.28±0.90s
44.745 N ± 8.2km 8.496 E ± 7.8km

DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

CKI 0.35 206 P 00 08.60 0.0
eSg 00 13.20

BOB 0.68 88 P 00 14.80 0.0
eSg 00 23.00

DOI 0.92 255 P 00 19.00 0.0
ORO 0.95 338 P 00 19.50 0.0
S.D. = 0.0 on 4 of 4 obs.

? APR 19, 1991 15h 17m 42.85±9.47s
16.643 N ± 27.0km 60.778 W ± 84.6km
DEPTH = 33.0km (normol)

LEEWARD ISLANDS (92)
ML 2.6 (FDF).

DEG 0.42 219 eP 17 52.42 0.0
S 18 02.10

SFG 0.56 226 eP 17 53.10 -1.2
PAG 1.06 235 eP 18 02.29 0.8
S 18 19.00

BPA 1.11 291 eP 18 02.09 0.0
BBL 1.30 211 eP 18 05.23 0.4
S.D. = 1.0 on 5 of 5 obs.

? APR 19, 1991 15h 29m 39.91±1.27s
44.525 N ± 10.3km 7.204 E ± 12.6km
DEPTH = 5.0km (geophysicist)

NORTHERN ITALY (545)
ML 1.4 (GEN).

PZZ 0.08 255 P 29 41.82 0.0
S 29 42.95

STV 0.29 163 P 29 45.94 0.1
ENR 0.34 152 P 29 46.62 -0.1

RRL 0.50 323 P 29 49.89 0.0
S.D. = 0.1 on 4 of 4 obs.

APR 19, 1991 15h 35m 19.26±0.25s
43.546 N ± 2.0km 127.335 W ± 2.6km
DEPTH = 10.0km (geophysicist)
5.0mb (18 obs.) 4.6Msz (1 obs.)

OFF COAST OF OREGON (30)

MPOR 2.89 69 P 36 06.31 0.0
DBO 3.02 97 Pd 36 06.46 -1.6
S 36 45.33

HSO 3.09 89 Pd 36 07.65 -1.4
S 36 49.35

KMOR 3.45 51 Pc 36 13.55 -0.6
S 36 57.37

FHC 3.70 137 eP 36 17.50 -0.3
NLO 3.76 46 P 36 18.71 0.2
S 37 06.42

GT2 3.97 64 Pc 36 22.15 0.6
PGO 3.99 60 P 36 22.35 0.7

BMW 4.13 43 P 36 23.47 -0.3
S 37 15.09

ONR 4.18 36 P 36 24.27 -0.1
S 37 16.26

RVW 4.18 50 P 36 24.68 0.3
VLMM 4.28 60 Pd 36 26.49 0.5
S 37 19.38

LVP 4.32 53 P 36 27.07 0.5
S 37 20.50

VBEM 4.39 68 Pc 36 27.68 0.0
MTMW 4.41 54 P 36 28.17 0.3

FL2 4.42 51 P 36 28.54 0.5
S 37 21.55

CZM 4.48 48 P 36 28.70 -0.1
S 37 26.20

SHW 4.49 52 P 36 29.73 0.8
S 37 26.47

ERK 4.49 50 P 36 29.19 0.2
S 37 25.48

OBH 4.50 32 P 36 28.72 -0.3
HSR 4.51 53 P 36 30.14 0.9

JLK 4.51 53 P 36 29.77 0.5
S 37 24.60

REMW 4.52 52 P 36 30.28 0.8
STD 4.52 52 P 36 29.90 0.5
S 37 25.58

CPW 4.53 39 P 36 29.00 -0.5
S 37 22.28

ESD 4.54 52 P 36 30.44 0.7
CDFW 4.55 54 P 36 30.32 0.5

		S	37	25.19		BONR	8.84	126	eP	37	31.00	0.7			LR	24	40.00			
VFP	4.56	65	P	36	30.03	0.0	PRI	9.00	143	ePd	37	32.30	0.1	KSP	80.81	22	eP	47	35.60	1.4
SOSW	4.57	52	P	36	30.62	0.5	TNP	9.41	122	eP	37	39.00	1.0	CAF	81.07	34	eP	47	42.20	6.5X
LBFM	4.59	117	eP	36	29.80	-0.7	ISA	10.42	136	eP	37	52.00	0.2	PRU	81.08	24	P	47	39.70	4.1X
TDL	4.59	51	P	36	30.70	0.3	CLC	10.76	133	eP	37	58.00	1.6	KHC	81.55	25	eP	47	42.40	4.2X
		S	37	26.63		LRM	10.84	73	ePc	37	56.20	-1.6	BTO	81.59	320	P	47	37.60	-1.0	
APM	4.59	60	P	36	30.89	0.5	SBB	11.52	137	eP	38	06.00	-0.8	CCH	82.49	122	P	47	44.00	0.2
KOSW	4.67	50	P	36	31.79	0.3	GSC	11.57	132	eP	38	09.00	1.5	SPC	83.37	21	eP	47	47.00	-0.9
GMO	4.69	77	P	36	31.07	-0.8	MWC	11.78	139	eP	38	12.00	1.6	SIV	84.63	118	P	47	53.00	-1.3
SMW	4.70	35	P	36	31.46	-0.5	PAS	11.78	140	eP	38	08.00	-2.3	XAN	87.30	316	P	48	03.40	-4.1X
		S	37	28.65		RVR	12.29	138	eP	38	17.00	-0.2	WMO	87.55	335	P	48	08.50	-0.1	
GULW	4.73	58	P	36	32.67	0.2	MSU	12.50	109	eP	38	20.20	0.0		Z	16s	0.20um		4.6mszX	
		S	37	33.13		TPC	12.88	133	eP	38	27.00	1.9				SP	48	19.50		
OOW	4.74	27	P	36	32.46	0.0	BW06	13.01	87	eP	38	26.80	-0.2	LZH	88.09	321	eP	48	10.50	-0.9
LMW	4.74	47	P	36	32.62	0.0	SES	13.05	53	ePc	38	29.90	2.6		1.5s	42.00nm			5.5mb	
CROR	4.78	70	Pc	36	32.25	-0.9			pP	38	36.00		WB2	109.37	261	ePKP	54	00.10	8.6X	
ASR	4.84	55	P	36	34.45	0.4	PLM	13.06	138	eP	38	28.00	0.4		0.5s	3.60nm				
		S	37	33.64		EDM	13.40	39	ePd	38	31.00	-0.8	LSZ	144.93	44	iPKP	54	58.00	-0.6	
MEW	4.93	40	Pd	36	36.00	1.0	BAR	13.70	139	eP	38	37.00	1.0			i	55	04.70		
VIPM	4.94	76	P	36	34.57	-0.8	GLA	14.34	133	eP	38	45.00	0.6			i	55	11.00		
OSD	4.98	30	P	36	35.75	-0.2	RSSD	16.81	80	eP	39	14.70	-1.7			i	55	17.50		
		S	37	33.94				1.6s	157.48nm			4.9mb	PTZ	145.56	39	iPKP	54	58.00	-1.7	
OTR	5.00	24	P	36	36.09	0.0	GOL	16.86	96	eP	39	16.00	-1.0			i	55	04.50		
GHW	5.00	44	P	36	36.39	0.4		0.9s	21.78nm			4.3mb		S.D. = 0.9 on 155 of 170 obs.						
		S	37	36.15		ANMO	18.27	111	eP	39	35.00	0.3		* APR 19, 1991 16h 24m 32.97±0.92s						
LON	5.05	49	Pc	36	37.31	0.4		1.8s	227.27nm			5.0mb		41.461 N ±10.1km 20.664 E ± 9.7km						
		S	37	38.36		FFC	19.89	47	iPc	39	52.90	-0.5		DEPTH = 10.0km (geophysicist)						
GLK	5.06	51	P	36	37.64	0.6		1.7s	350.00nm			5.4mb		ALBANIA (391)						
		S	37	37.50		YKA	20.39	17	eP	39	57.40	-1.2		ML 3.0 (TTG), 2.9 (SKO). Felt						
HDW	5.08	35	P	36	36.90	-0.5		0.9s	19.50nm			4.5mb		(IV) at Debora, Yugoslavia.						
		S	37	37.87		KLU	21.09	335	eP	40	06.00	0.0	OHR	0.36	164	iPgc	24	42.00	1.5	
VGB	5.08	65	eP	36	37.20	-0.2	TOA	21.64	336	eP	40	13.10	1.6			iSg	24	49.80		
RVC	5.09	46	P	36	37.77	0.4	PMR	22.21	332	ePd	40	18.20	1.1	SKO	0.77	48	ePg	24	49.30	1.2
		S	37	37.76			1.4s	114.80nm				5.1mb				iSg	24	59.50		
GMW	5.12	37	Pc	36	37.34	-0.5	PDB	23.03	324	eP	40	26.50	1.3			iSg	24	59.50		
VTHM	5.12	69	P	36	37.24	-0.7	MEO	23.85	102	iPc	40	35.20	1.8	VAY	1.44	95	ePn	24	56.40	-2.7
WPW	5.17	50	P	36	39.01	0.4	FBA	24.29	339	eP	40	38.90	1.6	IVA	1.52	338	iPnc	25	00.71	0.4
		S	37	40.42		SVW	24.35	326	eP	40	38.80	0.8			iSn	25	22.38			
GL2	5.23	60	Pc	36	39.56	0.1	INK	25.03	355	eP	40	44.50	0.0	BDV	1.60	302	iPnc	24	59.94	-1.4
FMW	5.24	48	Pc	36	40.09	0.4	TUL	25.32	97	eP	40	47.10	-0.4			iSn	25	23.46		
		S	37	42.77			1.8s	135.10nm				5.3mb	NKY	1.83	318	iPnc	25	05.54	0.7	
STW	5.27	28	P	36	40.25	0.4			eS	45	21.80				iSn	25	31.69			
		S	37	41.49		TTA	25.54	329	eP	40	50.20	0.8	HCY	1.89	302	iPnd	25	04.54	-1.1	
MIN	5.34	125	eP	36	42.30	1.3	IMA	26.80	336	ePd	41	01.80	0.7	PLE	2.09	334	iPnd	25	09.98	1.4
GSM	5.35	45	Pc	36	41.49	0.3		1.9s	238.40nm			5.6mb			iSn	25	31.51			
		S	37	45.94		FVM	28.34	89	eP	41	14.50	-0.7	BRY	2.13	313	iPnc	25	09.09	-0.1	
SPW	5.37	40	P	36	41.74	0.5	ANM	29.95	328	eP	41	29.50	0.2		S.D. = 1.7 on 9 of 9 obs.					
RMW	5.51	43	Pc	36	43.46	0.0	BRW	31.34	342	eP	41	42.60	1.1		? APR 19, 1991 16h 36m 14.20±9.13s					
		S	37	50.05		JSC	36.63	89	eP	42	26.00	-1.5		15.784 N ±77.7km 98.292 W ±24.2km						
NAC	5.60	53	Pc	36	45.09	0.4	FRB	38.52	38	ePc	42	43.90	1.0		DEPTH = 33.0km (normal)					
YAKW	5.67	56	P	36	45.90	0.3	DAG	52.07	16	eP	44	31.50	0.7		OFF COAST OF GUERRERO, MEXICO (65)					
JBO	5.69	68	P	36	45.32	-0.7	YAK	58.10	327	iP	45	12.60	-2.1	OXX	1.98	49	iP	36	46.29	0.0
PGC	5.77	27	eP	36	44.00	-2.9	KEV	65.45	10	eP	46	03.00	-0.9			iS	37	11.26		
EBG	5.84	53	P	36	48.52	0.5	SOD	67.66	11	iP	46	17.80	-0.2	III	2.81	337	iP	36	58.00	0.0
PATW	5.88	64	P	36	48.28	-0.2	MAT	68.81	301	eP	46	23.00	-2.7			(S)	37	23.30		
ORV	5.92	130	eP	36	50.40	1.3		0.7s	12.33nm			5.2mb	IIT	3.22	360	(P)	36	58.60	-5.3X	
TBM	5.97	50	P	36	50.45	0.6	NB2	70.46	20	P	46	35.50	0.1			iS	37	04.80	0.0	
BRVW	5.98	58	P	36	49.97	0.0		0.9s	5.70nm			4.7mb	IISM	3.30	15	iP	37	04.80	0.0	
MCW	6.01	30	eP	36	50.00	-0.4	HFS	71.86	19	eP	46	43.50	-0.3			iS	37	43.67		
PRW	6.05	61	P	36	50.79	-0.2		0.5s	1.20nm			4.2mb	IIA	3.37	354	eP	37	05.73	0.0	
MDW	6.18	58	P	36	52.60	-0.1		Z	17s	0.12um		4.2mszX		S.D. = 0.0 on 4 of 5 obs.						
RSW	6.19	60	P	36	52.82	-0.1	KAF	72.57	13	eP	46	47.60	-0.3		& APR 19, 1991 18h 02m 06.60s					
BVW	6.20	56	P	36	53.02	0.0	NUR	73.80	14	iP	46	50.90	-4.2X		33.190 N 115.590 W					
VTG	6.21	54	P	36	53.27	0.2	SNY	73.84	313	Pc	46	54.40	-1.2		DEPTH = 1.0km					
GBL	6.36	59	P	36	55.29	0.0		1.2s	23.00nm			5.1mb		SOUTHERN CALIFORNIA (43)						
WAH2	6.36	57	P	36	55.40	0.0	IRK	74.67	330	eP	47	00.50	0.1		<PAS-P>. ML 3.1 (PAS).					
WIW	6.39	60	P	36	55.54	-0.2	CLL	79.45	24	eP	47	29.00	2.0	GLA	0.66	102	iPc	02	19.30	-0.4
MJ2	6.40	59	P	36	55.80	0.0	BGF	80.03	32	eP	47	39.50	9.3X	IKP	0.69	219	eP	02	19.40	-1.0
LOCW	6.43	58	P	36	56.28	0.0	AVF	80.04	32	eP	47	38.30	8.1X	TPC	0.99	337	eP	02	24.60	-1.7
WG3	6.52	65	P	36	56.31	-1.3		0.8s	6.70nm			</								

19d 18h

SOUTHERN ALASKA

(2)

<AEIC>. Felt (V) at Kenai; (IV)
at Anchorage and in parts of the
Kenai Peninsula; (III) at
Chugiak, Kodiak, Moose Pass,
Palmer and Port Graham.

PDB	0.48	245	iPd	19	43.27	-1.0	TGL	5.27	77	ePd	20	39.88	-2.6	CN2	49.32	289	Pc	27	58.60	-2.8	
RED	0.52	33	iPc	19	43.78	-0.9	CCB	5.34	27	ePd	20	40.00	-3.2		1.0s	100.00nm				5.6mb	
RS2	0.56	31	iPc	19	44.30	-0.8	HDA	5.34	31	ePc	20	40.26	-3.1	IIDJ	49.59	273	eP	28	01.60	-2.1	
RSO	0.56	31	iPc	19	44.25	-0.8	RDS	5.42	24	ePd	20	41.16	-3.2	GBTN	49.64	87	eP	28	01.40	-2.6	
RDW	0.56	28	iPc	19	44.27	-0.8	MDM	5.52	23	eP	20	42.41	-3.4			epP	28	33.70	141kmX		
REF	0.59	32	iPc	19	44.50	-0.8	BALM	5.53	74	eP	20	43.31	-2.7	BLA	50.32	83	eP	28	07.30	-1.9	
RDN	0.60	28	iPc	19	44.52	-0.7	FBA	5.56	25	ePd	20	43.70	-2.6		0.5s	18.75nm				5.2mb	
NCT	0.61	19	iPc	19	44.52	-0.7	WRG	5.67	85	ePd	20	46.00	-1.9	TSRJ	50.52	274	eP	28	08.70	-1.9	
AUH	0.63	185	iPd	19	44.64	-0.7	GLM	5.72	26	ePd	20	45.78	-2.8	CVL	50.70	80	eP	28	10.00	-2.0	
AUE	0.63	181	iPd	19	44.43	-0.8	DOT	5.72	46	ePd	20	45.95	-2.6	SNY	51.71	289	eP	28	17.00	-2.6	
AUI	0.66	184	iPd	19	44.61	-0.8	TMW	5.95	51	eP	20	48.71	-3.0		1.0s	37.00nm				5.2mb	
DFR	0.69	28	iPc	19	44.89	-0.9	CTGM	6.02	75	eP	20	50.19	-2.5	IRK	51.98	310	eP	28	19.00	-2.5	
RDT	0.75	38	iPc	19	45.40	-0.8	SDN	6.04	223	eP	20	49.60	-3.2	JSC	52.21	86	eP	28	21.00	-2.4	
		eS		20	01.79		IMA	6.10	359	iPc	20	52.30	-1.6	SOD	52.94	0	iP	28	25.00	-3.3	
HOM	0.92	110	iPd	19	46.91	-0.6	BCPM	6.88	84	eP	21	01.11	-3.2	HHC	58.04	297	iPd	29	03.30	-2.1	
MCNL	0.95	213	iPd	19	46.61	-1.2	YKU	6.89	88	eP	21	02.21	-2.1		1.0s	70.00nm				5.6mb	
XLV	0.98	123	iPd	19	46.90	-1.2	PNL	7.04	87	iPd	21	03.56	-2.8	NB2	58.71	9	P	29	06.10	-3.7	
NNL	1.03	86	iPc	19	48.49	0.0	ANM	7.24	314	eP	21	07.13	-2.0		0.8s	3.60nm				4.4mb	
CDD	1.07	188	iPc	19	47.75	-1.2	HON	7.33	88	iPd	21	07.18	-3.2	BTO	58.93	298	P	29	08.70	-2.9	
BGM	1.13	239	eP	19	48.52	-1.0	FYU	7.54	25	eP	21	09.33	-3.8	NUR	59.82	1	iP	29	23.20	5.9	
CNPM	1.16	113	iPd	19	48.89	-0.9	SIT	9.86	99	ePd	21	42.30	-1.9		0.6s	10.40nm				5.0mb	
		eS		20	07.69			0.9s	430.30nm			6.2mb X		TIY	60.19	294	Pd	29	17.80	-2.4	
BRLK	1.26	99	eP	19	50.20	-0.6	BRW	11.45	354	eP	22	02.30	-2.6		1.0s	30.00nm				5.2mb	
		eS		20	09.40		INK	11.95	38	ePd	22	07.80	-3.7	SSE	61.43	283	iPc	29	26.00	-2.5	
NKA	1.29	53	iPc	19	51.97	0.9		0.5s	109.00nm			5.7mb			1.0s	24.00nm				5.1mb	
CKL	1.31	22	iPc	19	50.92	-0.5	ADK	15.32	248	e(P)	22	55.50	0.8	NJ2	61.78	286	Pd	29	28.00	-2.9	
SPU	1.35	27	iPc	19	51.09	-0.8	YKA	18.61	66	eP	23	31.00	-2.9		1.0s	100.00nm				5.7mb	
		eS		20	12.26			0.5s	98.50nm			5.4mb	EKA	62.60	19	P	29	32.00	-4.0		
BGL	1.36	20	iPc	19	51.67	-0.3	PGC	20.60	110	eP	23	55.00	0.6		0.8s	8.50nm				4.7mb	
CRP	1.41	24	iPc	19	52.10	-0.5	PNT	21.99	104	eP	24	08.00	-0.2	GTA	64.29	305	Pc	29	44.40	-3.1	
SYI	1.47	160	ePc	19	51.58	-1.4		1.0s	38.00nm			4.7mb		1.2s	70.00nm					5.5mb	
CGLM	1.48	26	eP	19	52.77	-0.5	EDM	22.73	89	ePd	24	15.50	0.1			PP	30	18.80			
NCG	1.53	22	iPc	19	53.39	-0.5		0.7s	103.00nm			5.3mb			SP	30	32.60				
SVW	1.59	316	iPd	19	53.70	-0.8	NEW	23.92	103	eP	24	26.80	-0.1	XAN	64.82	295	P	29	46.60	-4.2	
SLKM	1.64	70	ePc	19	53.49	-1.5		1.0s	50.00nm			5.0mb	WMO	65.15	316	iPc	29	50.40	-2.4		
		eS		20	16.20		SES	25.55	93	eP	24	41.00	-1.2		2.0s	50.00nm				5.1mb	
SUA	1.95	40	iPc	19	57.93	-0.9		1.3s	181.00nm			5.5mb	WHN	65.19	288	iPd	29	50.60	-2.5		
SEW	1.96	85	eP	19	57.04	-1.7	LBFM	26.90	120	eP	24	55.50	0.7		1.0s	40.00nm				5.3mb	
SKT	2.18	23	iPc	20	00.52	-1.1			epP	25	24.00	135kmX	LZH	65.38	300	iPc	29	51.20	-3.3		
		eS		20	28.72		FFC	27.60	78	iPd	24	53.80	-6.8		1.5s	130.00nm				5.6mb	
PMS	2.25	54	iPc	20	00.72	-1.7		0.7s	19.00nm			4.9mb			PP	30	25.00				
PWA	2.38	44	iPc	20	02.20	-1.8	LRM	27.91	102	eP	25	03.50	-0.3			SP	30	39.50			
PLRM	2.62	50	iPc	20	04.32	-2.7	BONR	31.26	119	eP	25	34.20	0.5	BRG	69.01	9	e(P)	30	14.10	-2.7	
PMR	2.62	50	iPc	20	04.80	-2.2	BW06	31.55	103	eP	25	35.00	-1.1	MOX	69.05	10	eP	30	15.30	-1.8	
LTJ	2.76	87	ePc	20	07.20	-1.6		1.0s	13.33nm			4.7mb	KSP	69.21	7	eP	30	19.00	1.0		
KNK	2.79	57	iPc	20	06.79	-2.6	ISA	33.11	122	eP	25	49.00	-0.5			ec	30	48.60	119kmX		
GHO	2.80	48	iPc	20	06.98	-2.6			e	26	19.00	138kmX	CD2	69.79	297	eP	30	18.60	-3.3		
KNIM	2.82	80	iPc	20	07.06	-2.7	RSSD	33.30	96	eP	25	50.20	-1.1		0.8s	51.00nm				5.4mb	
CUT	2.84	30	iPc	20	08.34	-1.6		1.0s	85.41nm			5.5mb	KHC	70.72	9	P	30	25.40	-1.9		
MTU	2.86	88	eP	20	08.75	-1.4	CLC	33.36	120	eP	25	51.00	-0.6			e	30	59.00	137kmX		
		eS		20	42.02				epP	26	20.00	133kmX	HAU	71.10	14	eP	30	27.00	-2.5		
SML	3.05	51	eP	20	10.32	-2.4	MSU	33.60	111	eP	25	54.00	0.1		0.9s	8.20nm				4.6mb	
TTA	3.22	338	iPc	20	13.70	-1.3	GSC	34.14	120	eP	25	58.00	-0.3	BSF	71.32	14	eP	30	28.30	-2.7	
GLI	3.22	71	ePc	20	11.45	-3.5	SBP	34.22	122	eP	26	06.00	7.0		1.2s	11.90nm				4.6mb	
HIN	3.44	80	iPc	20	15.36	-2.5	YAK	35.33	307	iP	26	04.80	-3.2	LOR	71.49	16	eP	30	28.90	-3.0	
SCM	3.47	55	iPc	20	15.66	-2.6	TPC	35.48	120	eP	26	11.00	1.3		0.9s	12.30nm				4.7mb	
HUR	3.48	29	ePd	20	16.38	-2.1	GOL	35.94	102	eP	26	13.50	-0.2	MFF	71.53	19	eP	30	29.40	-2.7	
VZW	3.52	69	ePc	20	15.87	-3.1	FRB	37.39	47	eP	26	23.00	-2.3		0.9s	13.10nm				4.7mb	
MID	3.59	96	ePd	20	18.10	-1.7		0.6s	142.00nm			5.9mb	LSF	72.14	18	eP	30	32.60	-3.2		
VLZ	3.64	69	ePc	20	17.78	-2.7	ANMO	39.18	108	eP	26	40.00	-0.8		0.9s	18.00nm				4.9mb	
TRF	3.76	21	ePc	20	20.05	-2.3		1.2s	8.59nm			4.4mb	LBV	71.79	16	eP	30	30.50	-3.2		
CVA	3.82	78	ePc	20	20.18	-2.7	KUSJ	40.39	274	eP	26	46.30	-4.1		0.8s	8.05nm				4.5mb	
KLU	3.94	64	iPc	20	21.83	-2.8	DAG	40.54	15	iPd	26	47.80	-3.4	AVF	71.89	17	eP	30	31.20	-3.0	
RND	4.04	30	iPd	20	23.58	-2.3		0.4s	30.51nm			5.4mb		0.8s	14.10nm					4.8mb	
TOA	4.08	56	iPc	20	24.90	-1.5	ASAJ	40.68	277	eP	26	51.30	-1.5	BGF	72.04	17	eP	30	32.00	-3.1	
SGAM	4.09	79	ePc	20	23.40	-3.0	HOJ	41.63	274	eP	26	58.10	-2.4		0.8s	13.45nm				4.8mb	
MCK	4.30	27	ePd	20	27.07	-2.2	MRRJ	42.70	276	eP	27	06.10	-3.2	SMF	72.10	16	eP	30	32.50	-3.0	
RAGM	4.34	81	ePc	20	27.18	-2.8	MEQ	43.14	101	iPc	27	12.50	-0.5		0.9s	11.45nm				4.6mb	
TZL	4.37	58	ePc	20	27.80	-2.4	SCH	43.74	57	ePd	27	15.50	-2.2		0.9s	13.10nm				4.7mb	
SDG	4.54	53	ePc	20	30.18	-2.4		0.5s	36.00nm			5.3mb	TCF	72.21	18	eP	30	33.10	-3.1		
HMT	4.55	82	eP	20	30.18	-2.5	FVM	44.71	90	eP	27	23.50	-2.0	GYA	72.25	292	P	30	34.20	-2.6	
BWN	4.57	22	eP	20	30.43	-2.6		0.8s	60.61nm			5.3mb	MAF	72.33	17	eP	30	33.80	-3.1		
PAX	4.81	48	ePc	20	34.01	-2.3	OFUJ	44.92	273	P	27	25.20	-1.9		0.9s	5.75nm				4.3mb	
GLB	4.90	69	ePc	20	34.70	-2.8	YAMJ	46.43	273	P	27	37.20	-1.9	KBA	72.74	9	iPc	30	39.40	0.0	
THY	4.98	43	eP	20	36.99	-1.6	CLE	46.49	80	iP	27	38.30	-1.3		0.9s	10.00nm				4.6mb	
NEA	5.01	22	ePd	20	35.49	-3.4															

GKN 0.8s 29.00nm 5.1mb
80.33 310 P 31 20.18 -1.8
1.0s 89.00nm 5.5mb
PKI 80.42 310 P 31 20.60 -2.1
1.0s 49.00nm 5.2mb
DMN 80.50 310 P 31 21.48 -1.5
0.9s 52.00nm 5.3mb
LOE 82.34 291 eP 31 29.40 -3.0
CHG 82.40 294 ePd 31 29.60 -3.1
1.0s 13.00nm 4.7mb
IFR 83.22 26 iP 31 35.50 -1.4
QUE 84.23 326 eP 31 40.40 -1.7
HYB 92.24 311 eP 32 17.50 -2.7
GBA 96.14 311 Pd 32 34.90 -3.2
0.5s 3.80nm 5.1mb
SLR 145.74 357 iPKPc 38 46.00 -2.3
0.8s 14.93nm
192 obs. associated

? APR 19, 1991 18h 44m 27.66±6.06s
44.410 N ±21.9km 6.569 E ±38.3km
DEPTH = 5.0km (geophysicist)
FRANCE (538)
ML 1.6 (GEN).

PZZ 0.39 76 P 44 35.59 0.0
S 44 39.83
RRL 0.53 17 P 44 38.36 0.0
S 44 44.56
STV 0.57 107 P 44 39.20 0.2
S 44 45.69
ENR 0.64 106 P 44 40.28 -0.2
S 44 47.61
S.D. = 0.2 on 4 of 4 obs.

? APR 19, 1991 18h 57m 09.01±3.57s
41.709 N ±14.5km 13.828 E ±25.7km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SDI 0.01 250 P 57 10.60 -0.3
iSg 57 12.80
AZI 0.40 314 P 57 16.10 -1.2
eSg 57 22.50
RMP 0.85 277 P 57 25.80 0.4
eSg 57 36.70
MNS 1.09 309 P 57 30.00 0.5
eSg 57 44.20
ARV 1.90 340 P 57 42.30 0.5
S.D. = 1.0 on 5 of 5 obs.

* APR 19, 1991 19h 28m 48.46±0.86s
30.020 S ±7.0km 68.356 W ±16.5km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTRS 0.97 261 iPd 29 09.00 0.2
RTLL 1.31 184 iPd 29 12.90 0.1
RTCB 1.51 195 iPc 29 14.90 -0.4
eS 29 34.00
ZON 1.55 190 iPc 29 16.00 0.3
eS 29 37.00
CFA 1.59 176 iPd 29 16.40 0.2
eS 29 37.30
RTBS 1.89 210 iPd 29 19.80 -0.2
ZOBO 13.69 1 P 32 00.00 -0.1
S.D. = 0.3 on 7 of 7 obs.

? APR 19, 1991 20h 49m 32.63±7.04s
16.904 N ±25.2km 60.295 W ±53.7km
DEPTH = 14.5 ± 5.7 km
LEEWARD ISLANDS (92)
ML 3.5 (FDF).

DEG 0.94 231 eP 49 50.08 -0.1
S 50 00.80
SEG 1.26 247 eP 49 55.70 0.1
MGG 1.39 225 eP 49 57.40 0.0
BPA 1.50 276 eP 49 59.10 0.0
DOG 1.54 236 eP 49 59.50 -0.1
PAG 1.59 237 eP 50 00.10 -0.3
S 50 17.50
BBL 1.78 220 eP 50 03.20 0.0
S.D. = 0.2 on 7 of 7 obs.

% APR 19, 1991 21h 41m 02.70±0.70s
31.213 S ±12.5km 68.992 W ±13.9km

DEPTH = 90.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.32 149 ePd 41 17.00 0.5
eS 41 28.50
ZON 0.43 141 eP 41 17.00 -0.2
eS 41 29.00
RTLL 0.46 105 iPd 41 17.30 -0.1
S 41 30.40
RTBS 0.60 221 ePd 41 18.30 -0.1
CFA 0.75 122 ePd 41 20.00 0.0
eS 41 35.00
RTRS 1.12 339 iPc 41 24.00 0.0
S.D. = 0.3 on 6 of 6 obs.

APR 19, 1991 21h 48m 35.73±0.10s
6.900 S ±2.7km 129.562 E ±3.4km
DEPTH = 127.3km (geophysicist)
5.9mb (69 obs.)

BANDA SEA (280)

Depth from broadband
displacement seismograms.
FAULT PLANE SOLUTION: P-Waves
NP1: Strike= 40 Dip=72 Slip= 80
NP2: 250 21 118
Principal Axes:
T Plg=62 Azm=295
P 26 138

Comment: The focal mechanism is
poorly controlled and
corresponds to reverse
faulting with a small strike-
slip component. The preferred
fault plane is not determined.

RADIATED ENERGY
No. of sto: 7 Focal mech. C
Energy 5.3±1.7*10**12 Nm
CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
L.P.B.: 21S, 40C
Centroid Location:
Origin Time 21:48:43.0 0.4
Lot 6.69S 0.03 Lon 129.63E 0.03
Dep 138.7 0.8 Half-duration 3.4
Moment Tensor: Scale 10**17 Nm
Mrr= 5.42 0.16 Mtt=-4.31 0.22
Mff=-1.11 0.26 Mrt= 1.88 0.14
Mrf= 6.70 0.17 Mtf=-0.42 0.21
Principal Axes:
T Vol= 9.75 Plg=58 Azm=281
N -3.46 14 34
P -6.29 28 132

Best Double Couple: Mo=8.0*10**17
NP1: Strike=254 Dip=21 Slip= 132
NP2: 30 75 76

AAI 3.47 337 iP 49 33.30 4.1X
KUPT 6.72 241 iPc 50 09.60 -3.7X
KNA 8.83 185 iPd 50 37.80 -4.0X
WB2 13.77 161 iPc 51 40.40 -6.5X
0.3s 363.50nm 6.2mb
BKB2 13.82 293 ePd 51 53.40 6.0X
1.3s 8446.30nm 6.9mb
MNDI 14.02 88 eP 51 41.00 -9.3X
DAV 14.45 344 eP 51 58.00 2.5X
TSM 15.93 314 ePc 52 20.40 6.4X
1.0s 1373.10nm 6.2mb
OIS 16.70 145 eP 52 19.00 -4.6X
eS 55 12.00

TRT 16.81 266 iPd 52 20.20 -4.7X
0.9s 777.60nm 6.0mb
MBL 17.02 213 iPc 52 25.30 -2.1
ASPA 17.18 166 iPd 52 23.90 -5.6X
0.5s 1717.10nm 6.6mb
Z 18s 23.10um 4.7MsZx
iS 55 26.40

LAT 17.32 90 e(P) 52 39.00 7.8X
PMG 17.59 99 iPc 52 35.00 0.5
KKM 18.51 314 ePc 52 46.00 0.8
1.1s 1135.90nm 6.1mb
e 53 07.00
WARB 19.38 188 iPd 52 53.10 -1.0
CTA 20.83 131 iPd- 53 08.50 -0.5
1.0s 470.00nm 5.8mb
iS 56 50.00

CTAO 20.83 131 ePd 53 08.25 -0.8
MEKA 22.24 207 eP 53 22.50 -0.3

RAB 22.66 84 iP- 53 28.00 1.0
0.8s 238.81nm 5.6mb
iS 57 20.00

FORR 23.87 183 iPc 53 57.70 19.2X
0.4s 125.00nm
OLP 24.05 146 iPd 53 39.60 -0.7
iS 58 03.00

BAG 24.81 339 eP 53 47.40 -0.4
2.0s 4482.35nm 6.6mb
eS 57 48.00

COOL 25.13 197 iPd 53 49.80 -0.7
0.4s 71.00nm 5.5mb
eS 58 29.00

GUA 25.39 37 eP 53 53.00 0.0
0.9s 490.76nm 6.0mb
e 54 32.00 198kmX

PJG 25.40 37 eP 53 53.30 0.2
BAL 26.49 205 iPc 54 02.20 -0.8
0.6s 197.00nm 5.9mb
eS 59 04.00

RMO 26.71 139 iPc 54 03.00 -2.0
1.1s 232.00nm 5.7mb
e 54 26.00 105kmX

KLB 26.93 203 iPc 54 06.10 -0.8
0.6s 231.00nm 5.9mb
STK 27.27 157 iPd 54 28.30 18.3X
0.8s 242.80nm

Z 21s 0.10um 3.4MsZx
iPp 54 52.80 113kmX
ePP 55 13.00

KGM 27.65 288 ePd 54 14.80 1.2
0.7s 359.10nm 6.1mb
NWA0 28.32 202 ePc 54 18.60 -0.9
ePcP 56 59.16

CMS 28.80 150 iPc 54 22.70 -1.1
1.0s 116.00nm 5.5mb
i 54 49.20 123kmX

ADE 29.17 164 iPd- 54 26.00 -1.2
0.7s 821.92nm 6.5mb
e 54 40.00 56kmX

RKG 29.42 202 iPd 54 33.80 4.5X
0.6s 168.00nm 5.9mb
BRS 30.01 136 iPc 54 32.50 -2.1
i(pP) 55 18.50 229kmX

e(PP) 55 24.50
i(S) 59 20.50
i(ScP) 05 22.00

SVO 30.03 96 eP 54 34.00 -0.9
HNR 30.18 97 eP 54 35.00 -1.2
IPM 30.68 291 ePc 54 39.20 -1.4
0.8s 364.70nm 6.2mb

OIZ 32.27 323 iPc 54 54.00 -0.4
1.1s 200.00nm 5.8mb
SP 55 36.00

iS 59 54.50
SS 00 42.00
TATO 32.64 346 ePc 54 57.52 -0.1
HKC 32.71 333 iP 54 58.50 0.4

OZH 33.41 342 iPc 55 03.50 -0.7
0.7s 380.00nm 6.3mb
Z 14s 1.70um 4.9MsZx

N 10s 0.78um
SP 55 46.50
iS 00 12.00

SS 00 58.50
RIV 33.43 146 eP 55 06.00 1.7
e 56 20.00 393kmX

i 57 40.60
e 02 41.00
CNB 33.63 150 eP 55 05.00 -1.1
0.2s 42.00nm 5.9mb

i 55 51.00 224kmX
e 06 48.00
GZH 33.76 332 P 55 06.00 -1.3

N 13s 1.80um
E 13s 2.10um
eS 00 17.00

PCT 35.20 308 eP 55 21.00 1.4
LOE 36.60 312 iPc 55 31.20 -0.2
e 01 27.00

NST 36.78 308 iPc 55 36.30 3.4X
KAGJ 37.89 2 P 55 42.70 0.6
BDT 38.57 309 eP 55 47.50 -0.4

				ScP	02	22.00	
				eS	04	22.00	
				SS	05	13.00	
				ScS	06	57.00	
HOOJ	50.62	13		eP	57	24.00	0.4
MDJ	51.28	0	Pc	57	28.20		-0.3
	1.4s	390.00nm					6.1mb
Z	25s	1.00um					4.7Ms z X
				PP	57	58.00	
				SP	58	13.00	
				ScP	02	25.00	
				S	04	37.00	
				SS	05	27.00	
				ScS	07	02.00	
				SS	08	10.00	
KUSJ	51.63	14	eP	57	30.60		-0.6
THZ	51.73	139	eP	57	31.90		-0.2
LSA	51.83	317	P	57	33.10		-0.4
	3.0s	910.00nm					6.1mb
				PP	58	03.50	
				iS	04	41.00	
				ScS	07	05.00	
ASAJ	52.14	12	eP	57	35.10		0.1
KHZ	52.46	140	P	57	36.80		-0.7
	0.8s	204.00nm					6.1mb
MNG	52.90	137	P	57	39.50		-1.3
PGZ	53.44	136	P	57	43.50		-1.2
	0.7s	87.00nm					5.8mb
HBZ	53.66	132	eP	57	45.90		-0.4
	0.8s	231.00nm					6.2mb
GTA	53.68	332	iPc	57	46.20		-0.4
	0.8s	130.00nm					5.9mb
Z	21s	2.40um					5.2Ms z
E	12s	0.80um					
				SP	58	26.00	
				PP	59	48.00	
				ScP	02	37.50	
				S	05	06.60	
				SS	05	54.00	
				ScS	07	21.40	
				SS	08	51.00	
GUN	54.56	311	P	57	59.44		5.9X
	0.5s	732.00nm					6.9mb
KOD	54.60	288	iPc	57	52.30		-1.6
	0.6s	268.00nm					6.3mb
				eS	06	10.00	
PKI	54.73	311	P	57	53.26		-1.5
KKN	54.94	311	P	57	55.12		-1.0
DMN	54.98	311	P	57	55.62		-0.8
GKN	55.54	311	P	57	59.44		-0.9
GBA	55.61	292	Pc	57	58.40		-2.4
	0.5s	103.10nm					6.0mb
HYB	55.88	296	iPc	58	01.00		-1.8
	0.8s	596.10nm					6.6mb
				e	02	46.00	
HIA	56.59	352	ePc	58	06.91		-0.4
			ePP	58	37.70		130kmX
			esPd	58	50.77		
			iS	05	49.32		
			iSs	06	38.70		
			eScS	07	42.44		
DRV	60.10	175	P	58	31.10		-0.3
			S	06	45.00		
CSY	60.74	189	iPc	58	36.70		0.9
			i	03	08.20		
BOM	61.51	296	iPd	58	40.70		-1.0
			iS	07	30.00		
NDI	61.58	308	iPc	58	40.00		-2.1
	0.8s	261.19nm					6.3mb
IRK	62.76	343	iP	58	49.00		-0.5
			ePcP	59	12.20		
			eP	59	35.00		198kmX
WMO	63.07	327	iPc	58	51.74		0.0
	1.0s	300.00nm					6.2mb
Z	20s	1.10um					5.0Ms z
				esPd</			

			S	08 08.00		SALJ	96.89 301 P	01 53.40	-0.7			e	08 28.00	
YAK	68.71	0	iP	59 26.70 -0.4		MKRJ	96.90 301 Pc	01 53.02	-1.1			e	17 56.00	
			iPcP	59 42.00		HRI	96.93 303 eP	01 56.00	1.8	EDM	111.54 35 iPKPd	06 56.50	0.0	
			iP	00 03.00 150kmX		LISJ	97.01 301 P	01 54.18	-0.3		0.8s	70.00nm		
			ePP	02 09.00		BHL	97.04 303 P	01 55.00	0.3	CLL	111.81 323 ePdiff	03 01.00	0.9	
			ePPP	03 51.00		SLR	97.10 243 iPc	01 56.00	0.8		1.8s	24.00nm		
			iS	08 19.00			1.0s	40.00nm	5.9mb	CLL	111.81 323 iPKP	06 57.10	0.1	
			iScS	09 09.00			i	05 54.00			0.7s	26.00nm		
			ePS	09 29.00		KVT	97.13 310 eP	01 54.80	-0.1	ISA	111.82 54 ePKP	06 58.00	0.3	
			esS	09 55.00		BADA	97.25 298 ePc	01 56.70	1.1	VBY	111.85 316 iPKPd	06 58.00	0.7	
			iSS	13 22.00		ATZ	97.29 302 eP	01 58.00	2.2		i	07 46.90		
			iSSS	16 40.00		OBN	97.31 325 iP	01 54.00	-1.3	KHC	112.07 320 iPKP	06 58.00	0.3	
QUE	70.38	305	iPc	59 38.00 -0.3			1.0s	105.00nm	6.3mb	TDS	112.22 310 PKP	06 58.40	0.2	
	0.9s			172.69nm	5.9mb	Z	24s	1.10um	5.3MszX	LJU	112.22 317 ePKP	06 58.20	0.2	
			ePP	59 51.00		N	26s	0.60um			e	07 47.00		
			eS	08 36.90		E	24s	1.10um		PAS	112.25 56 ePKP	07 01.00	2.6X	
SMY	70.39	27	eP	59 39.10 1.5				02 10.50	57kmX	CEY	112.37 317 ePKPd	06 58.50	0.2	
SBA	73.49	172	iP-	59 56.10 0.5				02 35.00		SBB	112.47 55 ePKP	07 00.00	1.1	
			iS	09 12.80				02 45.00		RIY	112.49 316 iPKPd	06 58.00	-0.5	
ADK	74.32	31	eP	00 01.60 0.8				04 40.00		CLC	112.51 54 ePKP	06 59.00	0.0	
MAW	74.88	201	iP	00 04.40 0.6				ePP	05 52.00	VOY	112.66 317 iPKPd	06 58.80	-0.2	
	0.9s			168.00nm	5.8mb			e	06 00.00			e	07 49.40	
MAIO	78.28	309	iPc+	00 24.00 0.6				i	06 40.00	KBA	112.76 318 iPKPd	06 58.40	-0.8	
	0.8s			84.19nm	5.6mb			iSKS	12 18.00			0.6s	20.30nm	
			e	10 08.00				iS	13 22.00			i	07 01.70	
PMO	81.07	104	iP	00 40.50 2.0				ePS	15 16.00			i	07 48.10	
	0.8s			40.00nm	5.2mb			e	16 00.00	MOX	112.85 322 ePKP	06 59.00	-0.1	
			eP	01 13.00 128kmX				eSS	20 16.00	BHG	112.90 319 iPKPd	06 59.10	-0.2	
VAH	81.30	104	iP	00 41.60 1.9		RMN	97.70 300 eP	01 59.00	1.2			0.7s	37.00nm	
	0.8s			30.00nm	5.1mb	BUL	97.84 249 iPd	01 59.00	0.4	GSC	113.22 55 ePKP	07 01.00	0.6	
			eP	01 14.00 127kmX				i	06 56.90	FVI	113.26 318 PKP	06 59.50	-0.4	
TPT	81.34	104	iP	00 42.00 2.1		LSZ	99.07 253 IPd	02 04.00	-0.3	GRF	113.38 321 ePKP	06 59.90	-0.3	
	0.8s			40.00nm	5.2mb			i	02 15.50	Z	20s	0.20um	4.7Msz	
			eP	01 14.00 126kmX				i	02 20.50			e	07 57.70	
RUV	81.55	104	iP	00 43.00 2.0				i	02 54.00	BAR	113.68 57 ePKP	07 02.00	0.7	
	0.8s			30.00nm	5.1mb	BBTK	99.60 309 iPd	02 07.00	0.8	SES	113.80 38 ePKP	07 01.00	0.0	
			eP	01 15.00 126kmX		KEV	100.78 340 ePdiff	02 10.00	-0.7		0.4s	24.00nm		
SHI	82.23	301	iPc	00 44.00 -0.6		SOD	101.31 337 iPdiff	02 12.30	-0.8	FUR	113.81 320 iPKPc	07 00.70	-0.4	
SPA	83.15	180	iPc	00 41.80 -6.8X		KMZ	101.63 255 iPdiff	02 16.00	0.1		0.7s	114.00nm		
	1.0s			250.00nm	6.0mb	KAF	102.26 332 iPdiff	02 16.10	-1.3	ARV	113.93 315 PKP	07 01.50	0.0	
DHR	83.63	297	iPc	00 53.00 1.5			0.7s	15.50nm	5.9mb	TPC	114.00 56 ePKP	07 03.00	1.0	
SDN	84.46	33	eP	00 56.00 1.0		CFR	102.90 315 ePdiff	02 22.50	1.9	CTI	114.16 318 PKP	07 01.60	-0.4	
	0.8s			329.40nm	6.3mb	NUR	103.30 331 ePdiff	02 19.90	-2.2	RSM	114.17 315 PKP	07 02.40	0.6	
ANM	85.81	23	ePc	01 02.70 1.0		VR1	103.86 315 ePdiff	02 26.00	1.1	LRM	114.28 43 ePKP	07 02.40	0.0	
RYD	86.49	295	iPc	01 06.60 0.7		ISR	104.04 315 ePdiff	02 28.00	2.2	OGA	114.35 319 iPKPd	07 02.50	0.1	
KER	87.66	305	ePc	01 11.50 0.0		MLR	104.43 315 ePdiff	02 30.00	2.3		0.7s	59.00nm		
KMSA	87.78	291	ePc	01 12.70 0.6		SPC	107.79 319 ePdiff	02 42.60	0.0	MNS	114.38 313 PKP	07 01.60	-0.8	
ATA	87.80	282	eP+	01 14.32 2.1				e	06 06.80	SFI	114.59 315 PKPd	07 03.30	0.7	
TDD	88.14	282	eP+	01 15.99 2.1				i	07 08.80	PGD	114.69 315 PKP	07 03.10	0.0	
ARO	88.16	282	eP+	01 15.99 1.9		YKA	107.85 26 ePdiff	02 41.90	-0.3	WIT	114.97 326 ePKP	07 03.50	0.5	
SGH	88.36	282	eP+	01 17.15 2.1			0.6s	1.40nm	5.3mb	GLA	115.16 57 ePKP	07 05.00	0.8	
DAF	88.48	282	eP+	01 17.68 2.1		YKA	107.85 26 ePKP	06 48.50	-0.7	WTS	115.21 325 ePKP	07 04.00	0.5	
NPA	88.53	255	iPc	01 20.90 5.1X			0.7s	7.70nm			0.8s	22.00nm		
	1.0s			310.00nm	6.3mb	PSZ	108.25 318 ePKP	07 00.30	9.8X	MME	115.32 316 PKP	07 03.90	-0.5	
HLD	88.57	282	eP+	01 18.15 2.2		BEO	108.37 315 ePKP	06 46.50	-4.2X	ERC	115.39 309 PKP	07 04.50	0.0	
SVW	88.74	28	ePc	01 17.20 1.3		AP0	108.43 332 ePKP	06 49.50	-0.9	BDI	115.43 316 PKP	07 02.60	-1.8	
TAB	88.91	308	iPc	01 18.70 1.3			0.6s	5.80nm		GWf	115.84 322 PKP	07 05.07	0.1	
			e	11 35.00		HFS	108.67 332 ePdiff	02 44.70	-1.2	FEL	115.98 320 ePKP	07 04.70	-0.7	
TTA	89.09	26	ePc	01 18.40 0.8			0.5s	2.80nm	5.7mb	BOB	116.02 317 PKP	07 05.40	-0.1	
	0.8s			44.50nm	5.6mb	PNT	108.73 40 ePKP	06 52.00	0.7	ENN	116.20 324 ePKP	07 06.00	0.5	
IMA	90.93	23	ePc	01 26.50 0.4			0.8s	19.00nm			0.7s	37.00nm		
BRW	91.32	18	ePc	01 28.60 1.0		NB2	109.49 333 Pdiff	02 48.20	-1.4			e	08 13.00	
AAE	91.85	279	eP	01 33.50 1.9			0.9s	12.00nm		WLS	116.20 321 PKP	07 05.13	-0.5	
PMR	91.89	28	ePc	01 30.20 -0.2		KSP	109.94 322 ePdiff	02 52.50	0.7	MEM	116.21 324 iPKPd	07 05.66	0.2	
	0.8s			28.30nm	5.5mb		0.7s	21.00nm		CDF	116.25 321 PKP	07 05.21	-0.6	
NVL	92.32	197	iP	01 33.00 0.7				e	05 58.70	ECH	116.40 321 PKP	07 05.32	-0.7	
			iPcP	01 34.00 144kmX				i	06 53.80	BBS	116.44 320 PKP	07 05.45	-0.7	
			e	02 10.00				e	07 10.80	MOF	116.54 321 PKP	07 05.85	-0.5	
			eS	11 49.00		ZST	110.03 319 e(PKP)	06 37.80	-16.0X	PCP	116.70 317 PKP	07 05.84	-0.9	
			ePS	12 26.00				i	06 53.70	ORO	116.74 318 PKPd	07 06.20	-0.7	
NAI	92.59	268	iP	01 37.00 2.1				e	07 21.70	BSF	116.76 321 PKP	07 06.47	-0.4	
COL	93.08	25	ePc	01 34.45 -1.4		VKA	110.52 319 iPKPd	06 55.20	0.5	LOMF	116.91 320 PKP	07 06.75	-0.3	
			eSP	02 18.31			3.5s	392.00nm		PGF	116.97 314 ePKP	07 06.90	-0.5	
			eS	12 24.71				e	07 24.00		1.4s	104.55nm		
FBA	93.08	25	ePc	01 35.00 -0.8				i	07 36.50	HAU	116.98 321 ePKP	07 06.50	-0.6	
	0.4s			10.80nm	5.5mb	PRU	111.24 321 ePdiff	02 59.00	1.4		0.9s	39.30nm		
TOA	93.36	28	ePc	01 38.20 0.9			Z	22s	0.50um	FIN	117.03 316 PKP	07 06.45	-0.9	
CSTJ	95.99	301	Pc	01 49.47 -0.5				e	06 21.50	FFC	117.09 31 iPKPd	07 07.10	0.0	
PTZ	96.23	255	iP	01 50.00 -1.4		PRU	111.24 321 PKP	06 56.00	0.0		0.7s	18.00nm		
			i	02 18.00 105kmX			0.8s	12.40nm		UCC	117.09 324 PKP	07 07.50	0.3	
			i	02 24.50		PTJ	111.29 317 ePKP	06 56.10	-0.3	AKU	117.13 346 iPKP	07 08.70	1.9	
			i	02 39.00		ZAG	111.29 317 ePKP	06 57.50	1.3		0.9s	23.53nm		
SNA	96.45	195	e(P)	01 52.50 1.2		BRG	111.36 322 ePdiff	02 58.80	0.7	VITF	117.13 321 PKP	07 07.26	0.0	
	1.0s			40.00nm	5.8mb	BRG	111.36 322 iPKP	06 56.20	0.0	ROB	117.23 317 PKP	07 06.86	-0.9	
JARJ	96.69	302	P	01 52.28 -0.9				i	07 31.10	DOU	117.24 324 PKPd	07 08.00	0.5	
SHMJ	96.87	302	P	01 55.43 1.6				e	08 13.20		0.7s	43.30nm		
KFNJ	96.89	301	P	01 53.67 -0.2										

PMR	1.0s	20.00nm	4.8mb	SMF	143.85	340 ePKP	21	19.30	-1.7	VTG	1.62	4 P	20	56.88	-0.2
	82.10	19 ePc	14 08.70		0.9s	27.85nm				JLK	1.62	300 P	20	57.21	-0.1
	0.9s	33.20nm	5.1mb	AVF	143.88	341 ePKP	21	19.50	-1.5	ESD	1.65	302 P	20	57.73	0.1
TOA	83.45	20 ePc	14 16.30		1.1s	36.65nm				SOSW	1.66	303 P	20	57.20	-0.6
BALM	84.06	22 ePc	14 18.00	RSP	143.89	336 PKP	21	20.15	-1.1	WPW	1.67	325 P	20	57.66	-0.3
IMA	84.21	15 ePc	14 19.70	LPF	143.93	347 ePKP	21	19.60	-1.4	SHW	1.70	301 P	20	58.40	0.0
	1.0s	28.30nm	5.0mb		0.5s	27.70nm				TDL	1.77	305 P	20	59.32	-0.1
FBA	84.93	18 P	14 22.00	BNI	144.20	336 PKP	21	22.30	0.5	ERK	1.82	303 P	20	59.55	-0.5
		pP	15 14.60	BGF	144.25	341 ePKP	21	20.70	-1.0	KOSW	1.82	309 P	20	59.12	-0.9
GUN	88.62	299 P	14 41.02	FIN	144.26	334 PKP	21	19.63	-2.2	LON	1.83	321 P	21	00.35	0.2
PKI	88.93	299 PKP	14 42.06	RRL	144.27	336 PKP	21	21.89	-0.2	TBM	1.85	350 P	21	00.42	-0.2
KKN	89.09	299 P	14 42.96	ROB	144.33	334 PKP	21	20.35	-1.6	FMW	1.91	327 P	21	01.03	-0.5
DMN	89.20	298 PKP	14 43.70	PZZ	144.48	335 PKP	21	21.07	-1.2	EPH	2.04	10 P	21	03.29	0.0
PNT	89.27	39 eP	14 44.00	ENR	144.58	335 PKP	21	21.07	-1.3	RVC	2.04	322 P	21	04.16	0.8
GKN	89.70	299 P	14 45.18	STV	144.60	335 PKP	21	21.07	-1.4	GSM	2.19	329 P	21	06.66	1.2
HYB	92.62	287 eP	14 59.00	MAF	144.63	341 ePKP	21	22.40	0.1	KMOR	2.38	278 P	21	08.63	0.5
GBA	92.83	283 Pc	14 59.20		0.9s	54.85nm				50 obs. associated					
	0.8s	3.80nm	4.5mb	IMI	144.64	334 PKP	21	20.35	-2.1	-----					
YKA	96.23	27 eP	15 13.50	TCF	144.68	342 ePKP	21	22.30	-0.1	& APR 20, 1991 01h 36m 12.40s					
	0.7s	1.60nm	4.4mb	SSB	144.81	339 PKP	21	23.40	0.7	34.540 N 118.660 W					
DAG	116.37	2 ePKP	20 28.00	LSF	144.92	343 ePKP	21	22.90	0.1	DEPTH = 13.0km					
FRB	116.56	24 ePKP	20 29.00	MFF	145.06	345 ePKP	21	23.60	0.6	SOUTHERN CALIFORNIA (43)					
LPB	117.87	117 ePKP	20 35.00	CDR	145.71	336 ePKPc	21	26.10	1.9	<PAS> ML 3.1 (PAS).					
ZOBO	117.96	117 PKP	20 34.00	RJF	145.78	342 ePKP	21	25.90	1.6	-----					
SOD	120.04	344 iPKP	20 35.60		0.9s	27.85nm				MWC	0.59	122 eP	36	23.30	-0.9
OBN	123.38	328 PKP	20 43.20	CAF	145.95	341 ePKP	21	26.80	2.2	SBB	0.70	78 eP	36	25.00	-1.1
	1.2s	*****nm		LFF	146.34	343 ePKP	21	27.60	2.4	CIS	1.15	169 eP	36	32.00	-1.7
KAF	123.77	339 ePKP	20 43.00		0.6s	34.25nm				BCH	1.34	299 eP	36	36.20	-0.6
	0.5s	12.20nm		LPO	146.44	342 ePKP	21	27.90	2.5	PEC	1.40	117 eP	36	35.90	-1.7
SIV	124.13	120 PKP	20 45.40		0.8s	40.30nm				PLM	1.91	128 eP	36	43.00	-2.1
NUR	125.45	338 iPKP	20 47.00	EPF	148.20	342 ePKP	21	33.40	5.1X	6 obs. associated					
	0.8s	45.50nm			1.0s	54.00nm				-----					
BUL	127.49	232 iPKPd	20 52.30	CAI	148.86	128 ePKP	21	34.40	4.3X	% APR 20, 1991 02h 52m 24.29±0.82s					
NB2	129.15	345 PKP	20 53.20	TOL	152.34	345 iPKPd	21	43.50	8.9X	33.476 S ±13.9km 70.927 W ±14.7km					
	0.9s	10.90nm			1.2s	93.75nm				DEPTH = 70.0km (geophysicist)					
HFS	129.26	343 ePKP	20 53.20	KIC	169.55	230 PKP	21	53.70	0.7	CHILE-ARGENTINA BORDER REGION (127)					
	0.9s	16.20nm		LIC	169.67	228 PKP	21	53.80	0.7	TACH	0.18	183 iPd	52	36.50	1.4
MML	132.07	302 ePKP	21 03.00	LKO	172.05	243 PKP	21	54.84	0.6			iS	52	47.50	
DSI	132.28	301 ePKP	21 03.00		0.9s	24.00nm				SAN	0.22	84 iPc	52	35.30	0.1
PRNI	132.83	299 ePKP	21 05.00	S.D. = 1.4 on 120 of 133 obs.								iS	52	44.00	
MLR	134.09	322 ePKP	21 04.00	-----						PCH	0.37	113 iPc	52	35.20	-1.1
BRG	136.62	335 ePKP	21 09.00	& APR 20, 1991 01h 20m 28.86s								iS	52	44.80	
	1.2s	19.00nm		45.345 N 120.138 W						ROCH	0.51	352 iP	52	37.50	-0.1
CLL	136.65	337 iPKPd	21 10.70	DEPTH = 13.3km								iS	52	48.50	
PRU	137.05	334 ePKP	21 10.00	WASHINGTON-OREGON BORDER REGION (28)						LCCH	0.54	270 iP	52	37.00	-0.6
	0.8s	9.70nm		<SEA> CL 2.8 (SEA).								iS	52	47.50	
KHC	138.11	334 PKPd	21 12.00	JBO	0.24	61 Pc	20	34.12	-0.2	JACH	0.84	20 eP	52	41.50	0.3
WTS	138.22	342 ePKP	21 12.00			S	20	38.29				iS	52	55.00	
	1.0s	20.00nm		VTHM	0.34	241 Pc	20	35.62	-0.5	S.D. = 1.1 on 6 of 6 obs.					
ENN	139.57	342 ePKP	21 16.50			S	20	41.70		-----					
	1.0s	20.00nm		VGB	0.48	291 Pd	20	38.30	-0.4	APR 20, 1991 04h 07m 20.75±0.69s					
MEM	139.68	341 PKP	21 16.90			S	20	44.94		41.555 N ±7.3km 20.619 E ±6.6km					
KBA	139.76	332 ePKP	21 10.00	PATW	0.60	26 P	20	40.66	0.0	DEPTH = 5.0km (geophysicist)					
	0.6s	4.60nm				S	20	49.36		ALBANIA (391)					
		i	21 16.60	CROR	0.70	239 Pc	20	42.17	-0.3	ML 3.1 (SKO), 2.9 (TTG). Felt					
LJU	139.96	330 e(PKP)	21 14.50			S	20	52.61		(IV) at Debar, Yugoslavia.					
VBY	139.99	329 e(PKP)	21 16.00	GL2	0.78	322 ePd	20	43.27	-0.5	OHR	0.46	163 iPgc	07	29.80	-0.3
		i	21 18.10	VIPM	0.90	202 P	20	45.28	-0.7			iSg	07	37.30	
VOY	140.28	331 e(PKP)	21 12.00	VFP	0.94	269 P	20	46.17	-0.4	SKO	0.74	56 ePg	07	35.00	-0.6
		e	21 17.50	VBEM	1.06	255 Pc	20	48.34	-0.4			iSg	07	46.90	
DOU	140.56	342 PKPc	21 19.00	GMO	1.08	213 P	20	48.85	-0.1	PVY	1.14	335 iPgc	07	41.80	-0.9
ARV	142.58	329 PKP	21 16.90	RSW	1.11	20 P	20	48.68	-0.8			iSg	08	00.67	
SFI	142.81	330 PKP	21 17.50	WG3	1.13	52 P	20	48.60	-1.1	TTG	1.34	311 iPgc	07	44.45	-1.4
PGD	142.91	330 PKP	21 17.20	BRVW	1.15	5 P	20	49.25	-0.8			iSg	08	04.94	
FLN	143.12	346 ePKP	21 17.00	APM	1.15	290 P	20	49.74	-0.4	IVA	1.42	338 iPgd	07	48.40	1.1
	0.9s	22.95nm		GULW	1.18	300 P	20	50.05	-0.5			iSg	08	08.47	
MME	143.15	331 PKP	21 18.60	YAKW	1.21	347 P	20	50.13	-0.9	VAY	1.49	98 ePn	07	48.60	0.5
FIR	143.21	330 ePKP	21 18.00	MXC	1.24	355 P	20	50.69	-0.9	BDV	1.52	299 iPgc	07	48.14	-0.5
ORO	143.21	335 PKP	21 17.70	WIW	1.24	28 P	20	50.42	-1.1			iSg	08	11.09	
BOB	143.28	333 PKP	21 18.30	MDW	1.30	12 P	20	51.45	-1.1	NKY	1.74	317 iPnd	07	53.29	1.4
LOR	143.30	341 ePKP	21 17.50	ASR	1.30	309 P	20	51.79	-0.9			iSn	08	19.02	
	0.9s	17.20nm		MJ2	1.33	24 P	20	51.72	-1.3	HCY	1.81	300 iPnc	07	52.59	-0.3
PDCR	143.45	133 ePKP	21 19.40	GBL	1.34	20 P	20	52.04	-1.1			iSn	08	20.00	
LBF	143.51	341 ePKP	21 18.30	VLMM	1.35	279 P	20	54.30	0.9	BRY	2.05	312 iPnd	07	57.39	1.0
GRR	143.56	347 ePKP	21 18.20	LNOR	1.40	67 P	20	52.69	-1.4			iSn	08	26.62	
	0.6s	14.45nm		LOCW	1.46	19 P	20	53.86	-0.9	S.D. = 1.1 on 10 of 10 obs.					
SSF	143.59	341 ePKP	21 18.70	NAC	1.47	341 P	20	53.74	-1.3	-----					
	0.8s	21.50nm		BVW	1.48	7 P	20	54.52	-0.6	* APR 20, 1991 04h 47m 00.94±0.93s					
LSD	143.67	336 PKP	21 20.35	ET3	1.49	34 P	20	54.02	-1.2	23.305 N ±17.9km 44.777 W ±14.3km					
RSL	143.69	337 PKP	21 19.62	GT2	1.52	264 P	20	55.81	0.1	DEPTH = 10.0km (geophysicist)					
LPL	143.79	337 ePKP	21 19.90	CDFW	1.54	301 P	20	55.83	-0.3	4.6mb (4 obs.)					
	1.0s	21.00nm		CRF	1.57	19 P	20	55.30	-1.1	NORTH ATLANTIC RIDGE (403)					
LPG	143.80	337 ePKP	21 20.00	EBG	1.59	349 P	20	56.35	-0.5	FVM	41.50	301 P	54	50.20	0.3
	1.0s	25.00nm		GLK	1.59	320 P	20	56.28	-0.6	FRB	43.40	345 eP	55	06.00	0.9
PCP	143.85	334 PKP	21 17.69	MTMW	1.61	296 P	20	56.41	-0.6						

20d 04h

ZOBO 45.48 212 P 55 23.00 0.0
 Z 24s 0.13um 3.8mszX
 LR 10 00.00
 LPB 45.69 212 eP 55 29.00 4.5X
 FFC 52.46 322 eP 56 15.00 -0.9
 0.8s 8.00nm 4.7mb
 GOL 53.23 303 (P) 56 22.40 0.2
 NB2 53.56 30 P 56 25.30 1.3
 0.9s 4.80nm 4.5mb
 TDS 53.64 57 P 56 25.80 1.0
 HFS 54.47 32 eP 56 29.30 -1.3
 1.2s 20.40nm 5.0mb
 YKA 60.29 330 eP 57 10.30 -1.4
 1.2s 2.80nm 4.3mb
 MLR 60.45 50 eP 57 12.00 -1.3
 FBA 74.49 334 P 58 42.20 1.2
 S.D. = 1.2 on 11 of 12 obs.

? APR 20, 1991 05h 36m 41.33±2.65s
 6.871 S ±16.5km 129.434 E ±26.3km
 DEPTH = 166.0 ± 29.7 km
 4.9mb (6 obs.)
 BANDA SEA (280)

MTN 6.17 164 iPd 38 12.80 1.5
 KNA 8.85 184 iPd 38 46.70 -0.2
 iS 40 19.00
 WB2 13.84 160 iPd 39 49.70 -2.1
 0.3s 21.50nm 5.0mb
 iS 42 14.10
 MBL 16.97 212 eP 40 29.50 -1.0
 eS 43 30.00
 ASPA 17.24 166 eP 40 33.60 -0.2
 0.5s 109.40nm 5.5mb
 eS 43 38.30
 WARB 19.39 188 iPd 40 58.40 1.6
 0.3s 6.00nm 4.5mb
 FORR 23.89 183 eP 41 41.50 0.5
 CHG 39.43 311 eP 43 58.20 1.3
 GUN 54.45 311 P 45 54.26 0.0
 PKI 54.62 311 P 45 55.08 -0.4
 0.5s 5.00nm 4.5mb
 KKN 54.83 311 P 45 55.40 -1.5
 0.3s 5.00nm 4.7mb
 DMN 54.86 311 P 45 57.92 0.7
 GKN 55.42 311 P 46 00.92 -0.2
 0.3s 14.00nm 5.3mb
 S.D. = 1.3 on 13 of 13 obs.

& APR 20, 1991 06h 30m 07.00s
 64.012 N 138.978 W
 DEPTH = 5.0km (geophysicist)
 SOUTHERN YUKON TERRITORY, CANADA (18)
 <PGC>. ML 3.4 (PGC), 2.9 (AEIC).

DWY 0.20 282 Pg 30 10.00 -1.2
 DOT 2.28 263 eP 30 45.42 -0.5
 S 31 15.94
 PAX 3.09 253 eP 30 56.35 -1.1
 S 31 36.82
 CTGM 3.25 201 iP 30 59.00 -0.7
 HYT 3.27 167 Pn 30 58.60 -1.5
 Pg 31 07.30
 Sg 31 48.50
 SDG 3.32 246 eP 31 00.69 0.0
 S 31 41.43
 BALM 3.37 209 eP 31 00.17 -1.3
 GLB 3.41 223 eP 31 01.18 -0.7
 HDA 3.51 280 eP 31 02.21 -1.1
 TGL 3.73 210 iP 31 06.16 -0.4
 GLM 3.77 289 eP 31 06.04 -1.0
 CROM 3.80 213 eP 31 07.09 -0.5
 CCB 3.89 283 eP 31 06.78 -2.0
 WRH 4.00 281 eP 31 08.32 -2.0
 KLU 4.07 235 eP 31 11.26 -0.1
 MDM 4.11 287 eP 31 10.25 -1.6
 PNL 4.36 183 eP 31 14.15 -1.3
 VLZ 4.46 233 eP 31 16.59 -0.2
 GLI 4.91 234 iP 31 22.16 -1.0
 19 obs. associated

? APR 20, 1991 06h 39m 17.97±1.46s
 24.043 N ± 9.5km 121.685 E ±18.4km
 DEPTH = 10.0km (geophysicist)
 TAIWAN (244)
 TWD 0.09 294 iPd 39 20.20 -0.3

TWC 0.58 15 eS 39 21.50
 eP 39 29.20 -0.5
 eS 39 37.80
 TWF1 0.77 207 ePd 39 33.20 0.1
 TWZ 1.05 355 ePc 39 38.60 0.8
 S.D. = 1.0 on 4 of 4 obs.

& APR 20, 1991 08h 47m 57.15s
 60.727 N 151.914 W
 DEPTH = 83.7km
 KENAI PENINSULA, ALASKA (14)
 <AEIC>.

RDT 0.29 238 iPd 48 09.36 -0.7
 iS 48 19.64
 NKA 0.33 87 iPd 48 11.68 1.5
 DFR 0.40 251 iPd 48 10.07 -0.7
 REF 0.46 239 iPd 48 10.66 -0.7
 SPU 0.46 352 iPd 48 10.59 -0.6
 iS 48 21.74
 RDN 0.47 243 iPd 48 10.51 -0.9
 RSO 0.49 238 iPd 48 10.99 -0.6
 iS 48 22.11
 RS2 0.49 238 iPd 48 11.02 -0.6
 RDW 0.51 241 iPd 48 11.03 -0.7
 CKL 0.51 336 iPd 48 11.10 -0.6
 RED 0.52 234 iPd 48 11.04 -0.7
 iS 48 22.41
 NCT 0.53 252 iPd 48 11.02 -0.8
 iS 48 22.04
 CRP 0.55 348 ePd 48 11.73 -0.4
 BGL 0.59 337 iPd 48 11.73 -0.6
 S 48 23.45
 NCG 0.69 350 iPd 48 12.79 -0.6
 S 48 25.53
 >NNL 0.75 156 ePc 48 14.23 0.4
 SLKM 0.86 104 iPd 48 14.30 -0.8
 iS 48 28.18
 SUA 0.93 37 iPd 48 15.86 -0.2
 HOM 1.08 173 ePd 48 17.35 -0.3
 S 48 33.17
 BRLK 1.09 152 eP 48 17.00 -0.9
 eS 48 32.52
 CNPM 1.25 164 iPd 48 18.89 -0.9
 eS 48 35.97
 PMS 1.26 65 iPd 48 19.54 -0.4
 SKT 1.27 8 iPd 48 19.18 -0.9
 eS 48 37.01
 XLV 1.28 176 iPd 48 19.08 -1.1
 S 48 36.60
 PWA 1.35 46 ePd 48 20.54 -0.5
 SEW 1.37 116 ePd 48 19.53 -1.8
 PDB 1.48 231 iPd 48 21.27 -1.4
 eS 48 40.01
 AUE 1.56 209 ePd 48 22.75 -1.0
 AUH 1.57 210 eP 48 23.07 -0.9
 AUI 1.59 209 ePd 48 23.43 -0.8
 eS 48 43.66
 PLRM 1.60 56 ePd 48 22.93 -1.4
 PMR 1.60 56 ePd 48 23.50 -0.9
 GH0 1.79 53 iPd 48 25.52 -1.4
 eS 48 47.79
 KNK 1.82 66 iPd 48 25.78 -1.5
 SVW 1.85 284 iPd 48 26.30 -1.4
 CUT 1.86 24 ePd 48 26.98 -0.8
 S 48 50.79
 CDD 2.00 207 ePd 48 28.38 -1.4
 KNIM 2.10 99 iPd 48 28.04 -3.0
 LTI 2.13 107 iPd 48 28.74 -2.7
 SYI 2.14 187 eP 48 30.03 -1.5
 MTU 2.24 107 iPd 48 30.53 -2.5
 GLI 2.37 84 iPd 48 31.43 -3.3
 SCM 2.48 61 ePd 48 34.46 -1.8
 HUR 2.50 25 eP 48 36.24 -0.3
 VZW 2.64 80 ePd 48 35.66 -2.9
 VLZ 2.76 79 ePd 48 37.43 -2.6
 TRF 2.84 15 eP 48 39.69 -1.7
 TTA 2.94 320 eP 48 41.30 -1.4
 KLU 3.01 73 iPd 48 41.09 -2.5
 RND 3.05 27 eP 48 42.66 -1.5
 TOA 3.09 61 eP 48 43.60 -1.1
 MCK 3.32 24 eP 48 46.76 -1.1
 TZL 3.39 64 eP 48 46.84 -2.0
 SDG 3.54 57 eP 48 49.43 -1.4
 BWN 3.64 17 eP 48 50.99 -1.3
 PAX 3.79 51 eP 48 52.98 -1.5
 GLB 4.00 76 ePd 48 54.13 -3.2

NEA 4.08 17 eP 48 56.24 -2.2
 WRH 4.15 24 eP 48 57.12 -2.3
 DDM 4.17 40 eP 48 59.75 -0.1
 CROM 4.31 86 eP 48 58.03 -3.8
 HDA 4.35 30 ePd 49 00.31 -1.9
 CCB 4.37 24 eP 48 59.95 -2.4
 TGL 4.46 86 eP 48 59.95 -3.9
 RDS 4.46 21 eP 49 02.44 -1.4
 WAX 4.48 90 ePd 48 59.62 -4.4
 MDM 4.57 20 eP 49 02.32 -3.0
 FBA 4.59 22 ePd 49 04.30 -1.3
 BALM 4.69 82 ePd 49 03.25 -3.7
 GLM 4.75 24 ePd 49 05.76 -2.1
 WRG 4.95 94 ePd 49 08.77 -1.8
 CTGM 5.18 83 eP 49 11.40 -2.5
 IMA 5.42 352 ePd 49 15.40 -1.8
 PNL 6.33 94 eP 49 26.55 -3.2

74 obs. associated
 ? APR 20, 1991 08h 51m 04.40±1.17s
 33.226 N ±16.5km 135.021 E ±18.6km
 DEPTH = 424.4 ± 11.2 km
 4.1mb (3 obs.)
 NEAR S. COAST OF SOUTHERN HONSHU (233)

MAT 4.22 37 iPd 52 20.70 0.1
 iS 53 17.90
 WRA 52.87 181 P 59 41.00 0.2
 0.9s 0.60nm 2.9mb X
 FBA 55.07 30 P 59 56.00 -0.1
 GBA 55.64 264 P 00 00.00 -0.7
 YKA 69.66 28 eP 01 30.20 -0.8
 0.9s 1.90nm 3.7mb
 PNT 74.51 41 eP 01 59.00 -0.3
 0.7s 4.00nm 4.2mb
 SES 78.38 37 eP 02 21.00 0.4
 FFC 79.67 30 eP 02 27.00 -0.1
 0.7s 5.00nm 4.3mb
 TNP 82.35 49 P 02 41.70 0.1
 ROB 89.08 325 P 03 15.10 1.2
 S.D. = 0.7 on 10 of 10 obs.

? APR 20, 1991 08h 53m 40.27±0.82s
 85.560 N ±11.7km 33.739 E ±22.8km
 DEPTH = 10.0km (geophysicist)
 3.8mb (2 obs.)
 NORTH OF SVALBARD (641)

SOD 18.34 189 eP 57 56.00 0.2
 NB2 25.05 206 P 59 06.00 0.5
 0.8s 4.20nm 4.2mb
 FBA 29.72 1 P 59 50.00 2.0
 YKA 31.55 332 eP 00 02.10 -2.0
 0.8s 0.50nm 3.5mb
 LRM 48.14 329 eP 02 22.20 0.2
 GKN 59.40 127 P 03 48.18 3.3X
 GUN 59.57 126 P 03 54.10 7.8X
 KKN 59.65 126 P 03 50.04 3.3X
 DMN 59.82 127 P 03 47.06 -0.9
 PKI 59.87 126 P 03 48.36 -0.1
 S.D. = 1.5 on 7 of 10 obs.

% APR 20, 1991 09h 14m 09.33±0.57s
 37.561 N ± 5.4km 2.339 W ± 4.9km
 DEPTH = 10.0km (geophysicist)
 SPAIN (377)
 mbLg 3.3 (MDD).

ENIJ 0.60 170 eP 14 20.92 -0.5
 eS 14 30.30
 EALH 0.79 68 eP 14 25.69 1.0
 eS 14 35.10
 AFC 1.01 253 eP 14 28.53 0.0
 eS 14 44.40
 ECOG 1.02 254 eP 14 30.02 1.4
 eS 14 44.70
 EVIA 1.08 353 eP 14 30.29 0.5
 eS 14 43.50
 EBAN 1.29 298 iP 14 33.57 0.3
 eS 14 50.70
 MAL 1.85 244 ePn 14 46.00 4.6X
 iSg 15 10.50
 ECHE 2.29 28 eP 14 46.43 -1.4
 eS 15 14.50
 EH0R 2.32 277 eP 14 48.00 -0.2
 eS 15 16.60
 TOL 2.67 331 ePg 15 01.50 8.3X

ETOR 3.26 4 eSg 15 36.00
eP 15 01.72 0.1
eS 15 39.30
GUD 3.39 336 eP 15 12.20 8.8X
eS 15 51.10
EVAL 3.50 272 eP 15 04.08 -0.8
eS 15 44.90
EPLA 3.84 312 eP 15 09.15 -0.7
EROO 3.89 32 eP 15 10.46 0.0
ECRI 5.04 359 eP 15 27.06 0.2

S.D. = 0.8 on 13 of 16 obs.

% APR 20, 1991 10h 13m 33.58±0.85s
39.650 N ± 6.9km 29.509 E ± 8.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

DST 0.68 267 iPg 13 46.00 -1.1
eSg 13 56.50
IZI 0.69 358 iPg 13 46.30 -0.9
ALT 0.75 142 ePg 13 48.50 0.1
YLV 0.92 354 iPn 13 50.70 -0.5
HRT 1.18 6 ePn 13 55.70 0.1
BNT 1.41 301 ePn 14 00.60 1.3
EDC 1.44 299 ePn 14 00.00 0.3
ISK 1.46 346 ePn 14 00.70 0.8

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

% APR 20, 1991 10h 16m 35.67±0.76s
39.616 N ± 6.3km 29.461 E ± 7.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

DST 0.64 269 iPg 16 48.00 -0.6
eSg 16 59.00
IZI 0.72 1 iPg 16 49.20 -0.7
ALT 0.75 138 ePg 16 50.50 0.0
YLV 0.95 356 iPn 16 53.20 -0.6
HRT 1.21 7 ePn 16 58.70 0.4
BNT 1.40 302 ePn 17 01.60 0.4
EDC 1.43 301 ePn 17 02.00 0.4
ISK 1.48 348 ePn 17 03.00 0.7

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

APR 20, 1991 10h 23m 48.78±1.05s
42.892 N ± 5.7km 2.999 W ± 11.5km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 3.0 (MDD).

ECRI 0.46 128 iP 23 57.90 -0.2
eS 24 04.00
ETOR 2.19 161 eP 24 26.00 0.2
eS 24 53.20
GUD 2.41 201 eP 24 29.00 0.0
eS 24 59.00
EPF 2.46 86 Pn 24 31.10 1.5
Sn 25 00.50
TOL 3.11 195 ePg 24 51.00 12.2X
eSg 25 27.00
EROO 3.28 128 eP 24 40.50 -0.7
LFF 3.39 52 Pn 24 44.00 1.2
LPO 3.52 58 Pn 24 45.50 0.9
EPLA 3.65 220 eP 24 58.00 11.4X
RJF 4.05 52 Pn 24 52.20 0.1
Sn 25 37.90
CAF 4.19 59 Pn 24 54.10 0.0
Sn 25 41.00
MFF 4.23 28 Pn 24 56.20 1.5
LSF 4.66 42 Pn 25 00.70 -0.2
TCF 5.04 46 Pn 25 05.50 -0.7
MAF 5.19 48 Pn 25 06.90 -1.4
Sn 26 04.20
BGF 5.55 47 Pn 25 12.20 -1.2
SSF 6.22 46 Pn 25 21.60 -1.2

S.D. = 1.0 on 15 of 17 obs.

& APR 20, 1991 12h 56m 51.05s
38.049 N 112.728 W
DEPTH = 2.8km
4.0mb (2 obs.)
UTAH (478)
<SLC-P>. ML 3.8 (SLC). Felt (IV)
at Minersville; (III) at
Elsinore and Paragonah; (II) at

Hatch.

MSU 0.64 43 iPd 57 03.60 -0.2
DLM 1.65 255 eP 57 20.40 -0.9
SRG 1.86 266 eP 57 20.50 -3.7
PRN 1.95 252 eP 57 24.70 -0.9
DUG 2.14 358 eP 57 27.20 -1.2
WRN 2.26 269 eP 57 28.80 -1.3
SHRG 2.47 232 eP 57 32.70 -0.4
DAU 2.62 25 eP 57 35.60 0.2
PV09 2.86 80 eP 57 38.70 -0.1
TNP 3.54 272 eP 57 46.80 -1.5
KVN 4.33 285 eP 57 58.00 -1.5
BONR 4.40 270 eP 57 59.10 -1.6
GLA 5.27 200 eP 58 12.70 0.0
BW06 5.31 26 eP 58 13.00 -0.4
PEC 5.49 222 eP 58 14.30 -1.5
FRI 5.65 261 eP 58 16.70 -1.3
iPb 58 35.80
iSb 59 48.00
ANMO 5.92 120 eP 58 20.40 -1.6
ALO 5.93 120 eP 58 20.00 -2.1
GOL 5.97 72 eP 58 22.50 -0.3
CMB 6.04 272 eP 58 26.50 2.9
ePb 58 41.80
GLD 6.10 71 eP 58 24.00 -0.5
LLA 6.70 260 eP 58 54.60 21.7
ORV 7.01 285 eP 58 37.50 0.3
ARN 7.02 267 eP 58 36.50 -0.8
MIN 7.27 291 eP 58 39.50 -1.4
LRM 7.77 1 eP 59 03.90 15.9
LBFM 7.79 298 eP 58 48.00 -0.4
RSSD 8.93 45 eP 59 02.00 -2.2
MEO 11.85 102 e(P) 59 45.50 1.5
YKA 24.50 358 eP 02 11.40 -1.0
0.8s 1.30nm 3.6mb
FBA 33.82 334 eP 03 35.50 -0.8
0.8s 3.02nm 4.3mb
IMA 36.52 333 eP 03 59.00 -0.4
32 obs. associated

% APR 20, 1991 13h 13m 26.83±0.95s
42.050 N ± 6.8km 12.814 E ± 9.6km
DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)

RMP 0.25 199 P 13 32.50 0.3
eSg 13 39.00
MNS 0.35 343 P 13 33.00 -1.0
eSg 13 39.50
AQU 0.53 55 P 13 38.00 0.4
eSg 13 45.50
SDI 0.82 114 P 13 42.10 -0.7
eSg 13 54.50
ARV 1.45 4 P 13 54.20 1.1

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

APR 20, 1991 13h 47m 51.18±0.47s
43.842 N ± 4.4km 13.658 E ± 5.2km
DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)
ML 3.1 (KBA).

ARV 0.62 237 P 48 02.80 -0.9
eSn 48 12.00
CRE 1.26 261 P 48 15.90 1.3
SFI 1.31 274 P 48 16.00 0.7
eSn 48 34.80
PGD 1.40 272 P 48 17.20 0.3
eSn 48 36.20
AQU 1.50 187 P 48 18.10 -0.1
RIY 1.59 19 ePn 48 18.80 -0.6
iSn 48 40.70
MNS 1.62 207 P 48 19.40 -0.5
eSn 48 40.70
TRI 1.87 2 P 48 22.00 -1.4
eSn 48 46.40
CEY 1.97 16 ePn 48 25.40 0.4
eSn 48 50.00
VBY 2.02 34 ePnc 48 26.80 1.2
iPg 48 30.50
iSn 48 53.40
iSb 48 56.40
iSg 48 57.80
HVAR 2.14 107 i(Pn) 48 27.70 0.4
SDI 2.14 177 P 48 26.80 -0.6
eSn 48 50.00

MME 2.16 280 P 48 29.10 1.1
VOY 2.20 4 ePn 48 29.60 1.3
ePg 48 35.20
eSg 48 55.90
LJU 2.29 15 ePn 48 30.00 0.5
eSn 48 58.00
eSg 49 06.00
CTI 2.63 328 P 48 33.40 -1.0
eSn 49 03.60
PTJ 2.63 38 ePn 48 35.30 0.8
eSn 49 08.20
FVI 2.82 348 P 48 35.60 -1.5
KBA 3.24 356 iPnc 48 42.00 -1.3
iPg 48 52.30
iSg 49 37.50

S.D. = 1.0 on 19 of 19 obs.

& APR 20, 1991 13h 53m 11.35s
61.544 N 149.978 W
DEPTH = 37.4km
SOUTHERN ALASKA (2)
<AEIC>. ML 2.7 (AEIC).

PWA 0.12 24 iPd 53 18.27 0.5
iS 53 22.70
PMS 0.36 146 ePc 53 20.31 0.1
SUA 0.38 258 iPd 53 20.91 0.4
eS 53 28.94
PLRM 0.41 83 iPd 53 19.93 -0.8
eS 53 27.87
GHO 0.55 65 iPd 53 21.72 -1.1
eS 53 31.04
KNK 0.74 100 iPc 53 24.33 -1.1
eS 53 35.66
SML 0.83 71 eP 53 25.13 -1.5
SKT 0.86 301 iPc 53 26.16 -0.9
eS 53 38.49
CUT 0.87 351 iPc 53 26.14 -1.1
NKA 1.01 218 ePd 53 29.81 0.6
SLKM 1.05 187 ePc 53 28.38 -1.4
NCG 1.06 263 ePc 53 29.71 -0.2
SPU 1.06 251 iPc 53 29.42 -0.6
CRP 1.08 256 eP 53 30.41 0.0
S 53 44.76
CKL 1.19 254 ePc 53 31.07 -0.8
BGL 1.19 257 eP 53 31.62 -0.3
SCM 1.30 76 ePd 53 31.75 -1.6
HUR 1.45 6 iPc 53 34.27 -1.2
eS 53 52.61
SEW 1.47 170 eP 53 33.52 -2.2
RDT 1.53 232 iPc 53 35.39 -1.3
eS 53 55.81
GLI 1.55 114 iPc 53 34.49 -2.4
KNIM 1.62 137 ePc 53 34.71 -3.3
DFR 1.63 235 iPc 53 36.87 -1.3
eS 53 58.37
NNL 1.64 204 ePc 53 37.71 -0.5
REF 1.70 233 ePc 53 37.90 -1.3
RDN 1.70 234 ePc 53 37.76 -1.5
VZW 1.72 105 ePc 53 37.37 -2.1
eS 53 59.00
RSO 1.73 232 ePc 53 38.39 -1.4
RS2 1.73 233 ePc 53 38.51 -1.3
NCT 1.74 237 ePc 53 38.63 -1.2
eS 54 01.03
RDW 1.74 234 ePc 53 38.60 -1.3
eS 54 02.35
RED 1.77 232 ePc 53 38.75 -1.4
eS 54 01.23
VLZ 1.81 102 eP 53 37.85 -2.7
LTI 1.83 144 eP 53 37.56 -3.4
TOA 1.89 71 eP 53 40.99 -0.9
TRF 1.92 356 ePc 53 40.53 -1.9
MTU 1.93 143 ePc 53 39.28 -3.2
RND 1.94 15 ePc 53 40.72 -1.9
KLU 1.95 90 ePc 53 40.30 -2.4
CNPM 2.12 198 ePc 53 42.80 -2.3
TZL 2.22 75 eP 53 45.03 -1.5
MCK 2.25 12 eP 53 44.88 -2.1
SDG 2.31 63 eP 53 47.05 -0.8
PAX 2.55 54 eP 53 50.71 -0.6
BWN 2.65 5 eP 53 50.44 -2.1
PDB 2.72 232 eP 53 51.18 -2.4
DDM 2.94 38 eP 53 57.05 0.1
GLB 2.96 89 eP 53 54.14 -3.0
WRH 3.06 16 eP 53 55.44 -3.0
NEA 3.07 7 eP 53 55.19 -3.4

20d 13h

TTA	3.15	299	iPc	53	57.38	-2.4
SYI	3.18	203	ePc	53	58.71	-1.4
HDA	3.19	24	eP	53	57.70	-2.5
CCB	3.27	17	eP	53	58.66	-2.7
RDS	3.40	13	eP	53	59.94	-3.3
CROM	3.41	100	eP	54	00.96	-2.6
FBA	3.51	15	eP	54	01.69	-3.1
MDM	3.52	12	eP	54	01.96	-3.0
TGL	3.55	100	eP	54	02.70	-2.9
GLM	3.65	18	eP	54	04.05	-2.8
BALM	3.72	95	eP	54	05.85	-2.1

61 obs. associated

? APR 20, 1991 13h 55m 18.55± 2.48s
23.870 S ±19.2km 179.966 W ±17.8km
DEPTH = 615.4 ± 31.3 km
5.1mb (7 obs.)

SOUTH OF FIJI ISLANDS (171)

DZM	12.65	275	iPc	58	03.10	-0.5
WLZ	14.44	194	eP	58	22.20	1.5
NOZ	14.80	186	eP	58	24.30	0.1
PGZ	17.00	190	eP	58	43.40	-1.8
MNG	17.13	192	eP	58	45.20	-1.4
	0.2s		21.00nm			5.2mb
THZ	18.81	197	eP	59	03.50	1.3
KHZ	19.27	195	P	59	06.60	0.3
LTZ	19.93	197	P	59	11.80	-0.6
MHZ	22.88	200	eP	59	39.40	0.2
RMO	28.39	258	iPc	00	28.20	0.8
PMG	34.52	289	eP	01	18.00	-1.0
STK	34.77	248	iPd	01	42.80	21.9X
	0.9s		6.50nm			
QIS	37.49	267	iPd	01	43.50	0.1
ASPA	42.07	261	eP	02	20.10	0.0
	0.6s		37.50nm			5.1mb
			iScP	07	03.50	
			eS	07	55.70	
WB2	42.43	266	iPc	02	22.90	0.0
	0.5s		70.10nm			5.4mb
WRA	42.44	266	P	02	22.00	-1.0
	0.5s		49.00nm			5.3mb
FORR	46.31	249	iPd	02	53.30	0.7
	0.3s		23.00nm			5.2mb
WARB	48.15	256	iPd	03	07.30	0.7
KNA	48.69	270	iPd	03	11.10	0.4
	0.2s		8.00nm			4.9mb
MBL	55.32	260	iPd	03	59.00	1.0
	0.5s		11.00nm			4.4mb
TNP	85.20	45	P	06	54.80	2.2
HFS	142.52	349	ePKP	13	40.50	-2.9
	0.3s		1.90nm			

S.D. = 1.3 on 21 of 22 obs.

? APR 20, 1991 14h 29m 00.72± 0.96s
39.335 N ±19.2km 144.835 E ±19.0km
DEPTH = 33.0km (normal)
4.3mb (4 obs.)

OFF EAST COAST OF HONSHU, JAPAN (229)

MAT	5.93	244	iPc	30	28.40	-0.2
	1.3s		42.31nm			4.9mb
			eS	31	34.00	
WRA	59.78	191	P	39	05.00	0.1
	1.2s		1.80nm			4.1mb
YKA	60.45	32	eP	39	08.80	-0.3
	0.6s		0.10nm			3.1mb X
GBA	64.07	267	Pd	39	34.00	0.2
	1.0s		3.90nm			4.5mb
NB2	73.08	338	P	40	29.30	0.2
	0.9s		2.30nm			4.2mb

S.D. = 0.3 on 5 of 5 obs.

% APR 20, 1991 15h 06m 16.12± 0.67s
31.237 S ±12.7km 68.896 W ±13.9km
DEPTH = 90.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.26	162	iPd	06	29.90	0.2
			eS	06	42.90	
ZON	0.36	149	iPd	06	30.50	0.3
			eS	06	42.50	
RTLL	0.38	104	iPc	06	30.00	-0.3
RTBS	0.64	228	iPd	06	32.00	-0.2
CFA	0.67	123	iPd	06	32.50	-0.1
			eS	06	46.10	
RTRS	1.17	335	iPd	06	38.10	0.0

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

? APR 20, 1991 16h 00m 09.77± 1.50s
37.767 N ±14.3km 14.962 E ± 9.3km
DEPTH = 10.0km (geophysicist)

SICILY (398)

MNO	0.27	308	P	00	15.70	0.2
			eSg	00	21.00	
ATN	0.56	45	P	00	21.10	0.0
			eSg	00	28.60	
GIB	0.77	287	P	00	24.60	-0.3
			eSg	00	35.80	
FAI	1.13	245	P	00	31.10	0.1

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

APR 20, 1991 17h 08m 20.24± 0.47s
36.416 N ±10.1km 70.912 E ± 8.0km
DEPTH = 33.0km (normal)
4.1mb (2 obs.)

HINDU KUSH REGION (718)

About 100 houses damaged in
Badokhsnon Province,
Afghanistan. Also felt at Kabul,
Afghanistan.

MAIO	9.21	273	ePn	10	34.00	0.1
			eSn	12	06.00	
NDI	9.37	144	iPd	10	37.00	1.1
	0.5s		24.65nm			5.7mb X
			iS	12	16.00	

GKN	14.32	122	P	11	42.52	-0.2
DMN	14.89	122	P	11	50.66	0.4
KKN	14.89	121	P	11	49.94	-0.4
PKI	15.12	122	P	11	52.88	-0.5
GUN	15.24	120	P	11	55.44	0.5
HYB	20.10	158	eP	12	53.00	-1.0
GBA	23.46	164	Pd	13	27.70	0.1
	0.5s		3.10nm			4.1mb
HFS	43.09	322	eP	16	18.70	0.2
	0.4s		1.40nm			4.1mb
NB2	44.40	323	P	16	29.20	0.0
	0.4s		0.50nm			3.7mb X
YKA	81.33	3	eP	20	34.20	-0.1
	0.6s		0.40nm			3.6mb X

S.D. = 0.6 on 12 of 12 obs.

% APR 20, 1991 17h 29m 51.05± 0.70s
40.147 N ± 8.0km 28.868 E ± 4.9km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

KCT	0.40	285	iPg	29	59.00	-0.3
IZI	0.50	68	iPg	30	01.40	0.2
			eSg	30	08.40	
YLV	0.57	42	iPg	30	02.40	-0.2
DST	0.57	199	ePg	30	02.60	-0.1
			eSg	30	10.90	
BNT	0.76	286	ePg	30	05.30	-0.5
HRT	0.91	42	ePg	30	08.50	0.0
KGT	1.24	285	ePn	30	15.00	1.0

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

APR 20, 1991 18h 14m 00.25± 0.34s
44.961 N ± 2.9km 6.979 E ± 3.8km
DEPTH = 10.0km (geophysicist)

FRANCE (538)

ML 2.2 (GEN).

RRL	0.14	253	Pd	14	03.87	0.0
			S	14	05.82	
BNI	0.23	293	P	14	05.40	0.1
			eSg	14	08.80	
RSP	0.27	46	Pd	14	06.32	0.3
			S	14	10.13	
PZZ	0.46	169	P	14	09.72	0.0
			S	14	15.59	
DOI	0.50	157	P	14	10.10	-0.2
			eSg	14	16.10	
LSD	0.51	14	Pc	14	10.42	-0.3
			S	14	17.02	
LPG	0.56	343	Pg	14	11.40	-0.4
			Sg	14	18.50	
LPL	0.58	343	Pg	14	11.80	-0.4
			Sg	14	19.20	

STV	0.76	161	P	14	14.99	-0.1
			S	14	24.30	
ENR	0.80	157	Pc	14	15.52	-0.3
			S	14	25.52	
ROB	0.92	136	P	14	17.82	-0.1
			S	14	30.25	
FIN	1.16	130	Pg	14	21.92	0.0
PCP	1.19	110	Pg	14	23.20	0.7
BGF	3.30	300	Pn	14	53.90	0.8

S.D. = 0.4 on 14 of 14 obs.

? APR 20, 1991 18h 44m 50.00± 4.52s
44.430 N ±15.8km 6.555 E ±31.6km
DEPTH = 10.0km (geophysicist)

FRANCE (538)

PZZ	0.40	79	P	44	58.30	0.1
			S	45	02.50	
RRL	0.52	18	P	45	00.53	0.0
			S	45	07.22	
STV	0.58	108	P	45	01.99	0.1
			S	45	08.35	
ENR	0.65	108	P	45	03.21	0.1
			S	45	10.34	
ROB	0.95	98	P	45	07.83	-0.4

S.D. = 0.3 on 5 of 5 obs.

& APR 20, 1991 19h 41m 53.40s
37.427 N 121.700 W
DEPTH = 5.0km

4.1mb (4 obs.)

CENTRAL CALIFORNIA (39)

<BRK>. ML 4.2 (BRK).
Mo=7.3+10+15 Nm (BRK). Felt (V)
at Mount Hamilton and (IV) at
San Jose. Felt in San Mateo and
Santa Clara Counties.

MHC	0.10	151	iP	41	55.60	0.0
ARN	0.15	120	iPd	41	56.40	-0.2
GCC	0.46	211	iPd	42	02.30	-0.4
PCC	0.55	278	iPd	42	03.68	-0.7
BKS	0.62	317	iPc	42	05.40	-0.4
BRK	0.63	315	iPc	42	05.40	-0.6
			iS	42	14.50	
ZSP	0.68	320	iPc	42	06.68	-0.3
SAO	0.69	163	iPc	42	06.82	-0.4
			eS	42	16.80	

S.D. = 0.6 on 12 of 12 obs.

% APR 20, 1991 17h 29m 51.05± 0.70s
40.147 N ± 8.0km 28.868 E ± 4.9km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

KCT	0.40	285	iPg	29	59.00	-0.3
IZI	0.50	68	iPg	30	01.40	0.2
			eSg	30	08.40	
YLV	0.57	42	iPg	30	02.40	-0.2
DST	0.57	199	ePg	30	02.60	-0.1
			eSg	30	10.90	
BNT	0.76	286	ePg	30	05.30	-0.5
HRT	0.91	42	ePg	30	08.50	0.0
KGT	1.24	285	ePn	30	15.00	1.0

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

APR 20, 1991 18h 14m 00.25± 0.34s
44.961 N ± 2.9km 6.979 E ± 3.8km
DEPTH = 10.0km (geophysicist)

FRANCE (538)

ML 2.2 (GEN).

RRL	0.14	253	Pd	14	03.87	0.0
			S	14	05.82	
BNI	0.23	293	P	14	05.40	0.1
			eSg	14	08.80	
RSP	0.27	46	Pd	14	06.32	0.3
			S	14	10.13	
PZZ	0.46	169	P	14	09.72	0.0
			S	14	15.59	
DOI	0.50	157	P	14	10.10	-0.2
			eSg	14	16.10	
LSD	0.51	14	Pc	14	10.42	-0.3
			S	14	17.02	
LPG	0.56	343	Pg	14	11.40	-0.4
			Sg	14	18.50	
LPL	0.58	343	Pg	14	11.80	-0.4
			Sg	14	19.20	

S.D. =

AUI	0.08	75	iPc	18 40.15	0.9	DOT	6.29	42	eP	19 55.41	-2.1	GUN	93.65	298	P	58 59.28	-0.5	
AUH	0.08	54	iPc	18 51.32		CTGM	6.34	70	eP	19 56.29	-1.9		0.6s	15.00nm			5.6mb X	
			eS	18 40.39	1.0	GLM	6.39	24	eP	19 55.15	-3.6	PKI	93.93	298	P	59 00.76	-0.3	
AUE	0.11	67	iPc	18 40.31	1.1	TMW	6.49	47	eP	19 58.40	-1.7	KKN	94.11	298	P	59 01.62	-0.1	
CDD	0.39	185	iPc	18 41.05	-0.8	IMA	6.78	360	ePd	20 02.30	-1.9	DMN	94.20	298	P	59 02.50	0.3	
MCNL	0.41	252	iPc	18 41.26	-0.7	YKU	7.07	82	eP	20 05.83	-2.2		0.6s	15.00nm			5.6mb X	
			eS	18 52.37		PNL	7.23	81	ePc	20 07.26	-3.0	GKN	94.72	298	P	59 04.92	0.5	
PDB	0.57	327	iPd	18 42.19	-0.8	ANM	7.65	318	eP	20 15.33	-0.7		S.D. = 0.5	on	9 of	9 obs.		
			iS	18 54.87		SIT	9.90	95	eP	20 44.20	-2.1	%	APR 20, 1991	23h 03m	38.20±	1.87s		
SYI	0.94	138	iPc	18 45.08	-1.2	YKA	19.01	64	eP	22 37.90	-3.3		15.544 N ± 6.7km	60.537 W ± 19.2km				
XLV	0.96	81	iPc	18 45.61	-1.0	FRB	37.94	46	eP	25 31.00	-2.5		DEPTH = 22.9 ± 7.5 km					
			eS	19 01.34			81 obs. associated					LEEWARD ISLANDS				(92)		
HOM	1.05	70	iPc	18 46.76	-0.7							ML 2.5 (FDF).						
			eS	19 02.44		%	APR 20, 1991	22h 18m	59.11±	0.62s		BBL	0.91	269	eP	03 55.10	-0.1	
RED	1.18	20	iPd	18 48.05	-1.0		16.183 N ± 4.7km	61.497 W ± 6.3km					S		S	04 03.40		
			iS	19 05.29		DOG	0.19	218	iPc	19 03.66	0.3	DEG	0.92	327	eP	03 55.21	-0.1	
CNPM	1.22	79	iPc	18 48.24	-1.2		DEPTH = 10.0km (geophysicist)						S		S	04 03.80		
			eS	19 06.09		SEG	0.22	358	eP	19 04.51	0.7		S		S	04 03.80	0.0	
RS2	1.22	19	iPd	18 48.75	-1.0		LEEWARD ISLANDS					MVM	1.04	199	iPd	03 57.37	0.0	
RSO	1.22	19	iPd	18 48.75	-0.9		ML 1.6 (FDF).						S		S	04 09.30		
RDW	1.23	18	iPd	18 48.83	-1.0	PAG	0.23	229	iP	19 04.16	0.0		S		S	04 10.60		
REF	1.26	20	iPd	18 49.08	-1.0							BIM	1.14	207	eP	03 58.88	0.0	
RDN	1.27	18	iPd	18 49.23	-0.9	MGG	0.32	147	iP	19 06.21	0.6		S		S	04 13.20		
			iS	19 07.27		DEG	0.44	73	eP	19 07.80	-0.3	DOG	1.15	295	eP	03 59.26	0.3	
NCT	1.29	14	iPd	18 49.40	-1.0	BBL	0.66	178	eP	19 11.50	-0.7		S		S	04 13.00		
			eS	19 07.68		BPA	0.92	338	eP	19 16.20	-0.6	PAG	1.20	294	eP	03 59.50	-0.2	
DFR	1.36	19	iPd	18 50.17	-1.0		S.D. = 0.7	on	7 of	7 obs.			S		S	04 14.10		
NNL	1.37	57	ePc	18 50.77	-0.4							SEG	1.26	313	eP	04 00.60	0.1	
RDT	1.39	25	iPd	18 50.31	-1.2		APR 20, 1991	22h 42m	44.25±	0.35s			S.D. = 0.2	on	8 of	8 obs.		
			eS	19 09.13			44.399 N ± 2.8km	7.296 E ± 3.0km				* APR 21, 1991	00h 00m	47.82±	0.97s			
BRLK	1.44	71	iPc	18 50.60	-1.5		DEPTH = 13.2 ± 3.6 km						15.015 S ± 8.3km	167.317 E ± 10.3km				
			eS	19 09.56			NORTHERN ITALY						DEPTH = 141.0 ± 8.6 km					
NKA	1.85	38	ePd	18 57.51	0.4		ML 2.1 (GEN). MD 1.7 (STR).						4.4mb (2 obs.)				(186)	
CKL	1.99	18	iPd	18 57.95	-1.1	DOI	0.11	341	P	42 48.00	0.4							
SPU	2.02	21	iPd	18 58.08	-1.3		eSg					BKM	2.78	161	iP	01 33.50	0.9	
			eS	19 23.64		STV	0.16	173	P	42 50.50			iS		iS	02 09.50		
BGL	2.04	16	iPd	18 58.88	-0.8		S					PVC	2.87	161	iPc	01 34.00	0.2	
SVW	2.07	331	iPd	18 59.20	-0.8	PZZ	0.18	307	P	42 48.70	0.1		iS		iS	02 12.00		
SLKM	2.07	53	eP	18 58.69	-1.3		S					DZM	7.07	187	iPd	02 28.30	-1.8	
			eS	19 23.49		ENR	0.19	153	P	42 48.95	0.1		iS		iS	03 47.00		
CRP	2.08	19	eP	18 59.25	-1.1		S					SVO	9.37	308	eP	03 01.00	0.2	
NCG	2.21	18	iPd	19 00.92	-1.0	TOUF	0.39	185	Pg	42 52.57	0.1		eS		eS	04 45.00		
SEW	2.24	68	eP	19 00.22	-1.9	AUTN	0.41	167	Pg	42 52.92	0.0		e		e	05 19.00	0.0	
SUA	2.57	32	ePd	19 05.42	-1.3		Sg					COO	20.99	220	eP	05 23.00	1.6	
			S	19 37.09		ROB	0.42	104	P	42 53.28	0.2		e		e	05 41.50		
PMS	2.78	44	ePd	19 07.87	-1.6	SAOF	0.45	156	Pg	42 53.53	0.0		eP		eP	05 59.90	0.5	
SKT	2.86	20	ePd	19 08.76	-1.7	AURF	0.51	177	Pg	42 54.57	-0.1		e		e	06 13.40	-0.2	
			S	19 43.15			Sg					MNG	26.48	166	eP	06 13.40	-0.2	
PWA	2.97	36	ePd	19 10.33	-1.6	MVIF	0.51	192	Pg	42 54.57	-0.1		0.3s	10.00nm			4.9mb	
LTI	2.99	73	ePc	19 10.10	-2.1	RRL	0.64	325	P	42 56.83	0.0		26.68	165	eP	06 14.70	-0.7	
			eS	19 43.62			Sg					STK	28.85	230	iPd	06 55.60	20.5X	
MTU	3.08	75	iPc	19 11.63	-1.8	FIN	0.68	106	P	42 57.60	0.1		0.4s	6.20nm				
KNIM	3.13	68	eP	19 10.96	-3.1	CALN	0.71	205	Pg	42 58.40	0.3	ASPA	32.62	250	eP	07 07.20	-1.1	
PLRM	3.17	42	ePd	19 12.02	-2.6	RSP	0.75	358	P	42 58.84	0.1		82.29	343	eP	12 53.60	-0.8	
PMR	3.17	42	ePd	19 12.70	-2.0	PCP	0.91	81	P	43 01.70	0.4	YAK	97.78	27	eP	14 05.90	-1.7	
KNK	3.30	48	ePd	19 13.94	-2.5	FRF	0.96	209	Pg	43 02.90	0.7		0.5s	0.20nm			3.9mb	
GHO	3.37	41	ePd	19 14.78	-2.7		Sg					APD	130.61	343	ePKP	19 42.40	-0.7	
CUT	3.50	26	eP	19 17.14	-1.9	LRG	1.16	216	Pg	43 05.80	0.2		0.4s	1.20nm				
GLI	3.61	61	ePc	19 17.24	-3.3	LMR	1.21	208	Pg	43 06.50	0.1		142.86	338	ePKP	20 04.10	-2.2	
MID	3.71	85	eP	19 20.10	-1.8		Sg						0.8s	2.70nm				
TTA	3.82	343	iPd	19 22.10	-1.4		Sg					HAU	143.53	338	ePKP	20 06.20	-1.1	
VZW	3.92	60	ePc	19 22.31	-2.6		Sg						0.6s	2.70nm				
SCM	3.99	48	iPc	19 23.37	-2.5		Sg					SFI	144.41	329	PKP	20 11.10	2.2X	
VLZ	4.05	60	eP	19 24.02	-2.5		Sg					PGD	144.51	329	PKP	20 09.20	-0.1	
HUR	4.14	26	eP	19 26.26	-1.6		Sg					MME	144.77	330	PKP	20 10.00	0.2	
KLU	4.38	57	ePd	19 28.50	-2.7		Sg					FIR	144.81	329	ePKP	20 09.00	-0.5	
TRF	4.44	19	eP	19 30.03	-2.1		Sg					ORO	144.87	335	PKP	20 09.00	-0.8	
TOA	4.59	49	iPc	19 32.50	-1.6		Sg					FLN	144.88	346	iPKPd	20 09.00	-0.5	
RND	4.69	27	ePd	19 32.79	-2.7		Sg						0.5s	9.50nm				
TZL	4.85	52	eP	19 34.84	-2.8		Sg					BOB	144.92	332	PKP	20 10.00	0.1	
MCK	4.96	25	eP	19 36.63	-2.5		Sg					BDI	144.92	330	PKP	20 08.50	-1.4	
SDG	5.07	47	ePd	19 37.82	-2.9		Sg					LDF	144.95	345	iPKPd	20 09.20	-0.5	
BWN	5.25	20	ePc	19 40.69	-2.4		Sg						0.5s	4.38nm				
GLB	5.29	62	ePc	19 40.74	-3.0	? APR 20, 1991	22h 45m	50.53±	5.42s				145.02	340	ePKP	20 10.00	0.1	
PAX	5.37	43	eP	19 42.22	-2.7		19.348 S ± 14.6km	169.722 E ± 62.6km					0.7s	10.45nm				
CROM	5.43	70	eP	19 42.87	-2.9		DEPTH = 81.7 ± 23.6 km					MNS	145.07	326	PKP	20 09.50	-0.6	
TGL	5.58	70	eP	19 44.75	-3.0		4.6mb (1 obs.)					LBF	145.23	340	iPKPd	20 10.60	0.3	
NEA	5.69	20	eP	19 45.78	-3.4		VANUATU ISLANDS						0.6s	8.10nm				
WRH	5.79	24	eP	19 46.91	-3.6	PVC	2.09	320	iPd	46 24.80	0.6		145.32	340	iPKPd	20 11.10	0.7	
DDM	5.80	36	eP	19 49.63	-1.2		iS						0.6s	30.20nm				
BALM	5.87	68	ePc	19 48.88	-2.8	BKM	2.18	320	iPc	46 24.90	-0.6		GRR	145.32	346	iPKPd	20 10.80	0.5
HDA	5.99	29	eP	19 49.58	-3.7		iS						0.5s	16.05nm				
CCB	6.00	24	ePd	19 49.49	-3.9	DZM	4.09	228	iPc	46 52.10	0.0		LSO	145.35	335	PKP	20 11.74	0.9
RDS	6.09	22	eP	19 51.54	-3.1		iS											
MDM	6.19	22	iPc	19 52.73	-3.4	ASPA	33.55	256	eP	52 24.80	0.0							
FBA	6.23	23	eP	19 53.40	-3.1		0.5s	4.80nm										

21d 00h

RSL 145.37 336 PKP 20 11.19 0.5
 LPG 145.48 336 ePKP 20 12.20 1.1
 0.6s 15.35nm
 PCP 145.49 333 PKP 20 11.33 0.5
 RSP 145.56 335 PKP 20 10.92 -0.1
 SMF 145.57 340 ePKP 20 11.60 0.8
 0.9s 11.45nm
 AVF 145.61 340 ePKP 20 11.70 0.9
 0.7s 4.40nm
 LPF 145.70 346 iPKPd 20 12.10 1.2
 0.5s 13.10nm
 BNI 145.88 335 PKP 20 16.00 4.4X
 FIN 145.90 333 PKP 20 11.84 0.3
 RRL 145.94 335 PKP 20 13.18 1.4
 BGF 145.97 341 iPKPd 20 13.00 1.5
 0.5s 13.50nm
 ROB 145.99 333 PKP 20 12.25 0.6
 PZZ 146.15 334 PKP 20 11.74 -0.3
 ENR 146.23 334 PKP 20 12.05 -0.1
 STV 146.26 334 PKP 20 12.05 -0.1
 MAF 146.36 341 ePKP 20 14.30 2.2X
 0.6s 5.85nm
 TCF 146.42 341 iPKPd 20 14.20 1.9X
 0.5s 4.35nm
 MFF 146.81 344 iPKPd 20 15.30 2.5X
 0.5s 11.65nm
 RJF 147.51 341 ePKP 20 17.40 3.4X
 0.6s 6.30nm
 CAF 147.68 340 ePKP 20 18.20 3.9X
 0.7s 4.40nm
 LFF 148.08 342 ePKP 20 19.10 4.2X
 0.6s 9.00nm
 LPO 148.17 341 iPKPd 20 19.40 4.3X
 0.6s 7.20nm
 EPF 149.93 341 ePKP 20 24.20 6.3X
 S.D. = 0.9 on 43 of 54 obs.

* APR 21, 1991 00h 26m 09.43 ± 0.90s
 22.011 N ± 10.9km 144.888 E ± 18.7km
 DEPTH = 33.0km (normol)
 4.9mb (8 obs.) 4.0msz (1 obs.)
 VOLCANO ISLANDS REGION (213)

MAT 15.60 340 (P) 29 49.00 0.5
 (S) 33 06.00
 SSE 23.01 298 eP 31 15.00 2.5X
 1.2s 17.00nm 4.4mb
 Z 20s 0.50um 4.0msz
 pP 31 26.20 4.4kmX
 eS 35 16.00
 LZH 38.24 301 e(P) 33 26.50 -1.9
 2.0s 25.00nm 4.7mb
 YAK 41.32 349 eP 33 54.60 1.3
 WB2 42.95 195 iPc 34 07.50 0.4
 0.5s 12.60nm 4.9mb
 ASPA 46.64 194 iPc 34 36.80 0.1
 0.6s 9.30nm 4.9mb
 GUN 53.39 289 P 35 30.06 1.3
 0.4s 10.00nm 5.1mb
 PKI 53.85 289 P 35 31.50 -0.6
 KKN 53.93 289 P 35 33.04 0.5
 DMN 54.11 289 P 35 34.62 0.7
 GKN 54.47 289 P 35 35.90 -0.5
 YKA 75.44 28 eP 37 51.00 -0.5
 0.6s 0.60nm 3.8mb X
 HFS 89.04 338 eP 39 01.10 -1.2
 0.6s 1.00nm 4.3mb
 ANMO 91.80 51 eP 39 23.10 7.3X
 1.0s 8.75nm 5.1mb
 FVM 100.89 41 ePd iff 39 51.00 -5.8X
 0.8s 11.36nm 5.5mb
 ZOBO 148.34 85 PKP 45 57.00 5.1X
 LPB 148.43 86 PKP 45 55.00 3.2X
 S.D. = 1.1 on 12 of 17 obs.

APR 21, 1991 00h 34m 48.70 ± 1.00s
 16.118 N ± 8.8km 98.211 W ± 7.1km
 DEPTH = 29.7 ± 5.2 km
 4.7mb (18 obs.) 4.1msz (1 obs.)
 NEAR COAST OF GUERRERO, MEXICO (58)

OXX 1.72 56 iP 35 17.89 0.7
 iS 35 36.96
 III 2.55 332 iP 35 28.50 -0.6
 (S) 36 04.16
 IIT 2.89 358 iP 35 33.50 -0.4
 (S) 36 08.00

PUE 2.91 0 (P) 35 38.00 3.8X
 (S) 36 17.00
 PPM 2.96 352 (P) 36 04.14 29.0X
 IISM 2.96 15 iP 35 34.37 -0.4
 (S) 36 05.30
 IIA 3.04 352 (P) 35 42.34 6.4X
 (S) 36 20.52
 UNM 3.33 344 (P) 35 45.30 5.1X
 (S) 36 28.00
 MRX 4.56 322 eP 36 02.68 5.3X
 (S) 36 55.00
 SCX 5.39 83 (P) 36 29.45 20.3X
 TPX 5.86 101 (P) 36 11.00 -4.9X
 MEO 18.59 359 e(P) 39 05.00 -0.7
 TUL 19.83 6 eP 39 16.20 -3.8X
 0.8s 15.50nm 4.4mb

RSCP 22.45 28 iP 39 49.00 2.3
 1.0s 32.54nm 4.7mb
 GLA 22.59 321 eP 39 49.00 0.9
 PLM 24.04 319 eP 40 04.00 1.5
 TPC 24.05 321 eP 40 04.00 1.7
 GOL 24.31 346 iP 40 05.90 0.8
 0.8s 36.31nm 5.0mb
 PEC 24.59 320 eP 40 08.80 1.3
 GSC 25.33 322 eP 40 15.00 0.4
 SBB 25.52 320 eP 40 18.00 1.5
 ISA 26.57 321 eP 40 26.00 -0.1
 TNP 27.55 326 eP 40 35.50 0.3
 0.8s 1.76nm 3.8mb
 BW06 28.29 342 eP 40 41.00 -0.9
 1.0s 6.25nm 4.3mb
 LRM 31.93 341 eP 41 14.50 0.3
 LBFM 32.40 326 eP 41 18.00 -0.3
 NEW 35.62 338 eP 41 45.00 -0.8
 SES 35.73 346 eP 41 46.00 -0.7
 PNT 37.42 337 eP 42 01.00 0.1
 FFC 38.64 357 iPc 42 10.00 -1.0
 0.7s 10.00nm 4.7mb

ZOBO 43.78 136 P 42 55.00 0.6
 LPB 43.99 136 P 42 51.00 -4.9X
 SCH 45.60 25 eP 43 07.00 -0.9
 YKA 47.74 350 eP 43 22.60 -2.0
 0.9s 2.30nm 4.2mb

SIV 48.59 129 P 43 30.60 -1.3
 FRB 51.79 16 eP 43 55.00 -0.6
 INK 56.79 345 ePc 44 31.00 -1.2
 RSO 58.94 332 iP 44 46.80 -0.9
 FBA 58.98 338 eP 44 47.00 -0.6
 0.8s 6.55nm 4.8mb
 SVW 60.49 332 iP 44 57.10 -1.0
 0.9s 31.67nm 5.4mb
 FLN 83.03 41 eP 47 12.50 -0.1
 LSF 85.08 43 eP 47 23.30 0.2
 1.3s 14.45nm 5.0mb
 NB2 85.10 27 P 47 23.80 0.9
 1.0s 3.40nm 4.5mb
 EPF 85.25 47 eP 47 25.90 1.8
 TCF 85.51 43 eP 47 25.60 0.3
 1.0s 6.00nm 4.8mb
 BGF 85.84 43 eP 47 27.10 0.2
 1.0s 8.00nm 4.9mb
 AVF 86.10 42 eP 47 28.20 0.1
 0.9s 3.30nm 4.6mb
 SSF 86.11 42 eP 47 28.00 -0.2
 0.9s 4.90nm 4.7mb
 LOR 86.26 42 eP 47 29.00 0.0
 0.9s 8.20nm 5.0mb

Z 21s 0.00um 4.1msz
 LBF 86.44 42 eP 47 29.70 -0.1
 1.2s 13.40nm 5.0mb
 SMF 86.46 42 eP 47 29.90 0.0
 HFS 86.60 28 eP 47 30.30 0.0
 0.5s 0.50nm 4.0mb
 WB2 130.03 257 ePKP 53 57.70 -0.4
 0.5s 9.10nm
 WRA 130.04 257 PKP 53 57.00 -1.1
 0.6s 5.80nm
 HYB 146.53 6 ePKPd 54 28.50 0.3
 1.0s 30.00nm
 GBA 150.16 9 PKPd 54 38.60 4.8X
 0.6s 5.10nm
 S.D. = 0.9 on 46 of 56 obs.

? APR 21, 1991 00h 38m 23.84 ± 1.92s
 5.695 S ± 27.9km 148.626 E ± 26.6km
 DEPTH = 86.6 ± 26.1 km
 4.6mb (2 obs.)

NEW BRITAIN REGION (192)

RAB 3.83 67 iPd 39 21.70 0.0
 0.7s 1424.66nm
 PMG 3.97 201 eP 39 23.60 0.0
 MTN 18.66 246 eP 42 38.00 0.1
 WB2 19.83 223 iPc 42 49.60 -0.7
 0.7s 26.70nm 4.7mb
 eS 46 26.60
 ASPA 22.81 217 eP 43 20.70 0.6
 0.6s 15.30nm 4.6mb
 Z 22s 0.20um 3.5mszX
 eS 47 22.70
 WARB 29.26 223 eP 44 20.00 0.0
 S.D. = 0.7 on 6 of 6 obs.

& APR 21, 1991 00h 44m 16.00s
 50.458 N 129.976 W
 DEPTH = 10.0km (geophysicist)
 3.9mb (4 obs.)

VANCOUVER ISLAND REGION (25)
<PGC>

PHC 1.64 80 Pc 44 44.83 -0.1
 S 45 06.03
 EDB 1.93 107 P 44 48.04 -1.1
 BBB 2.09 33 Pd 44 50.60 -0.8
 S 45 17.00
 ETB 2.47 115 P 44 56.34 -0.6
 GDR 2.63 103 P 44 58.36 -0.8
 CBB 2.99 96 Pc 45 04.32 0.0
 BTB 3.04 107 Pc 45 04.44 -0.7
 S 45 41.10
 OZB 3.27 116 P 45 07.62 -0.8
 MGB 3.73 111 P 45 14.19 -0.7
 SHB 4.03 100 P 45 18.74 -0.4
 PFB 4.07 116 P 45 19.17 -0.5
 PGC 4.62 111 eP 45 28.00 0.6
 STW 4.73 117 P 45 29.59 0.6
 MCW 4.98 108 P 45 33.55 1.0
 OHW 5.31 111 P 45 38.31 1.1
 HDW 5.35 119 P 45 38.90 1.0
 MBW 5.51 105 P 45 40.32 0.1
 PGW 5.51 116 P 45 41.82 1.8
 JCW 5.73 110 P 45 43.25 0.1
 RPW 5.87 107 P 45 45.62 0.4
 BMW 6.00 129 P 45 49.45 2.5
 HTW 6.01 113 P 45 47.61 0.6
 RMW 6.16 116 P 45 50.34 1.1
 GSM 6.31 118 P 45 52.37 1.0
 LMW 6.35 124 P 45 54.97 2.9
 RVC 6.36 121 P 45 53.29 1.2
 CZM 6.39 126 P 45 55.24 2.7
 RVW 6.47 129 P 45 56.22 2.7
 FMW 6.53 120 P 45 55.46 0.8
 KOSW 6.54 125 P 45 56.80 2.2
 LON 6.56 121 P 45 56.14 1.2
 ERK 6.57 126 P 45 56.91 1.9
 TDL 6.60 126 P 45 57.69 2.2
 FL2 6.63 127 P 45 58.19 2.2
 LVP 6.69 128 P 45 58.44 1.6
 SHW 6.69 127 P 45 58.74 1.9
 SOSW 6.72 126 P 45 59.31 2.1
 ESD 6.74 126 P 45 59.93 2.5
 WPW 6.74 121 P 45 58.91 1.4
 NLW 6.74 107 P 45 57.61 0.1
 JLK 6.77 127 P 45 59.99 2.1
 PNT 6.79 96 P 45 58.00 -0.1
 MTMW 6.82 128 P 46 01.40 2.8
 ETW 6.95 111 P 46 00.82 0.3
 TBM 7.01 114 P 46 02.64 1.4
 CBSW 7.04 108 P 46 02.62 1.0
 ASR 7.06 124 P 46 03.73 1.8
 NAC 7.12 118 P 46 03.90 1.2
 DHW2 7.13 106 P 46 03.11 0.3
 WTV 7.14 109 P 46 03.21 0.2
 EBG 7.17 116 P 46 04.32 0.9
 VTG 7.48 114 P 46 08.16 0.5
 MXC 7.51 117 P 46 09.16 1.0
 EPH 7.51 110 P 46 07.98 -0.2
 GL2 7.59 123 P 46 14.86 5.5
 MDW 7.79 116 P 46 12.01 -0.1
 RC1 7.81 113 P 46 11.95 -0.4
 WAH2 7.83 114 P 46 12.50 -0.1
 CRF 7.90 113 P 46 12.88 -0.7
 NEW 8.68 100 eP 46 24.00 -0.5
 SES 12.08 83 eP 47 12.00 1.0

21d 00h

LRM 12.58 105 eP 47 18.20 0.2
YKA 14.69 29 eP 47 43.00 -2.4
0.6s 1.70nm 3.8mb
BW06 15.96 111 eP 48 05 20 2.9
1.0s 10.00nm 3.9mb
FBA 17.23 334 eP 48 23.50 5.6
FFC 17.48 65 eP 48 20.00 -1.1
1.0s 13.00nm 4.0mb
INK 17.99 356 eP 48 27.00 -0.3
RSSD 18.65 100 eP 48 38.50 2.6
1.2s 8.75nm 3.8mb
IMA 19.80 331 eP 48 49.50 0.4
ANMO 23.07 123 eP 49 24.70 2.0
70 obs. associated

% APR 21, 1991 00h 50m 54.72±3.15s
40.403 N ± 7.9km 27.801 E ± 28.4km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.7 (ISK).

EDC 0.07 140 iPg 50 57.00 -0.1
iSg 51 00.00
BNT 0.10 117 iPg 50 57.70 0.2
CTT 0.88 32 iPg 51 11.70 0.0
DST 1.02 141 ePn 51 14.00 0.0
YLV 1.21 82 iPn 51 17.20 -0.1
HRT 1.48 73 ePn 51 18.00 -3.5X
S.D. = 0.2 on 5 of 6 obs.

% APR 21, 1991 00h 54m 49.74s
63.113 N 150.447 W
DEPTH = 110.4km

CENTRAL ALASKA (1)
<AEIC>.

TRF 0.35 12 iP 55 06.00 -0.2
eS 55 18.34
HUR 0.39 110 eP 55 06.00 -0.2
eS 55 18.42
CUT 0.72 173 eP 55 08.35 -0.1
RND 0.78 67 eP 55 08.75 -0.4
MCK 0.92 47 eP 55 10.15 -0.3
BWN 1.15 22 iP 55 12.65 -0.2
SKT 1.24 204 iP 55 13.28 -0.7
eS 55 31.78
PWA 1.49 170 eP 55 16.81 0.0
GHO 1.52 152 iP 55 17.21 -0.1
NEA 1.59 22 iP 55 16.84 -1.2
PLRM 1.65 158 eP 55 18.40 -0.3
SUA 1.66 185 eP 55 18.78 -0.3
WRH 1.72 36 iP 55 18.69 -0.9
NCG 1.89 206 eP 55 21.22 -0.7
PMS 1.92 167 eP 55 22.02 -0.2
eS 55 45.83
CCB 1.93 36 iP 55 21.26 -1.1
SCM 1.94 130 eP 55 21.96 -0.5
KNK 1.94 150 eP 55 21.94 -0.6
RDS 2.00 30 eP 55 22.14 -1.1
HDA 2.02 49 eP 55 22.52 -1.0
BGL 2.07 207 eP 55 24.30 0.1
SPU 2.08 202 eP 55 24.16 -0.2
MDM 2.09 27 iP 55 23.31 -1.2
CKL 2.12 206 eP 55 24.27 -0.6
FBA 2.14 32 eP 55 23.90 -1.1
TOA 2.22 115 eP 55 25.67 -0.5
PAX 2.27 91 eP 55 26.49 -0.4
GLM 2.31 34 iP 55 26.45 -0.9
SDG 2.33 102 eP 55 27.01 -0.5
SLKM 2.62 178 eP 55 30.63 -0.7
KLU 2.67 126 eP 55 30.82 -1.3
RDT 2.71 201 eP 55 33.15 0.5
GLI 2.74 143 eP 55 31.04 -2.0
DFR 2.74 204 eP 55 33.14 0.0
DOT 2.92 77 eP 55 34.37 -1.1
SEW 3.06 171 eP 55 36.08 -1.1
KNIM 3.06 154 eP 55 35.16 -2.1
LTI 3.32 157 eP 55 38.75 -2.1
GLB 3.53 115 eP 55 42.39 -1.2
CNPM 3.62 186 eP 55 43.93 -1.0
40 obs. associated

% APR 21, 1991 01h 10m 14.77±2.63s
31.601 S ± 8.8km 68.230 W ± 20.5km
DEPTH = 10.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

CFA 0.01 233 iPc 10 16.30 -0.4
eS 10 29.00
RTLL 0.34 323 iPc 10 22.00 0.2
ZON 0.39 278 iPd 10 22.20 -0.5
RTCB 0.50 283 ePd 10 24.90 0.0
eS 10 35.10
RTBS 1.04 266 ePd 10 33.70 -0.8
MDZ 1.38 202 eP 10 37.00 -3.1X
RTRS 1.78 323 iPd 10 48.60 2.9X
(S) 11 17.00
JACH 2.28 241 iPd 10 54.60 1.5
iS 11 27.50
PEL 2.58 233 iPc 10 57.60 0.2
iS 11 33.00
ROCH 2.72 239 iP 11 01.00 1.4
iS 11 37.50
i 11 39.90
SAN 2.76 227 eP 11 00.50 0.6
iS 11 37.00
PCH 2.79 223 eP 11 01.00 0.7
iS 11 38.50
i 11 40.50
TACH 3.07 227 iP 11 04.10 -0.1
iS 11 44.00
LCCH 3.38 236 eP 11 08.50 -0.2
i 11 52.00
LNV 3.56 228 eP 11 09.00 -2.2
i 11 57.10
S.D. = 1.0 on 13 of 15 obs.

APR 21, 1991 01h 26m 01.96±0.26s
44.568 N ± 2.1km 7.289 E ± 2.9km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.5 (GEN), 2.5 (LDG).

DOI 0.07 206 P 26 05.00 0.6
eSg 26 06.20
PZZ 0.15 245 P 26 05.53 0.0
S 26 07.38
STV 0.32 176 P 26 08.61 -0.1
S 26 12.71
ENR 0.35 165 P 26 09.17 -0.1
S 26 13.69
ROB 0.50 123 P 26 12.40 0.3
S 26 18.84
RRL 0.50 315 P 26 12.09 -0.1
S 26 18.24
TOUF 0.55 183 Pg 26 13.27 -0.1
AUTN 0.58 170 Pg 26 12.90 -1.0
Sg 26 20.25
RSP 0.58 358 P 26 13.22 -0.7
S 26 21.46
SAOF 0.61 162 Pg 26 13.98 -0.3
Sg 26 22.09
BNI 0.65 318 P 26 15.00 -0.1
eSg 26 23.00
MVIF 0.68 188 Pg 26 15.33 -0.2
Sg 26 24.25
AURF 0.68 178 Pg 26 15.18 -0.3
Sg 26 24.60
CKI 0.72 101 P 26 16.50 0.3
FIN 0.75 118 P 26 16.71 0.0
S 26 26.35
CALN 0.86 200 Pg 26 17.91 -0.8
LSD 0.90 354 P 26 19.37 0.1
S 26 30.99
PCP 0.90 91 P 26 19.58 0.4
S 26 31.53
LPG 1.01 338 Pg 26 21.60 0.4
Sg 26 33.80
LPL 1.03 338 Pg 26 21.80 0.3
Sg 26 34.00
FRF 1.11 205 Pg 26 23.30 0.6
Sg 26 36.20
LRG 1.30 211 Pg 26 26.20 0.2
Sg 26 42.20
LMR 1.36 205 Pg 26 27.10 0.2
Sg 26 43.90
CDR 1.41 231 eP 26 29.10 1.4
e 26 46.10
BGF 3.70 304 Pn 26 59.50 -0.9
S.D. = 0.5 on 25 of 25 obs.

% APR 21, 1991 01h 42m 59.47±0.82s
37.734 N ± 8.0km 14.933 E ± 6.5km
DEPTH = 23.6 ± 9.9 km

SICILY (398)
MNO 0.27 316 P 43 05.70 -0.5
eSn 43 09.90
ATN 0.60 44 P 43 10.80 -0.4
eSn 43 20.20
MEU 0.63 180 P 43 11.50 -0.4
eSn 43 21.30
MSI 0.68 46 P 43 14.50 1.9
GIB 0.76 290 P 43 13.70 -0.3
eSn 43 25.60
MCT 1.04 265 P 43 18.80 0.1
FAI 1.10 246 P 43 17.90 -1.5
eSn 43 32.70
USI 1.69 306 P 43 26.60 -1.2
CVT 1.70 269 P 43 28.50 0.5
ERC 1.88 280 P 43 29.90 -0.8
TDS 2.21 29 P 43 33.80 -1.6
S.D. = 1.2 on 11 of 11 obs.

APR 21, 1991 01h 43m 15.38±0.41s
73.027 N ± 5.9km 5.210 E ± 9.9km
DEPTH = 10.0km (geophysicist)
4.5mb (23 obs.) 3.4Msz (4 obs.)
GREENLAND SEA (640)

TRO 5.56 121 eP 44 37.00 -3.1X
LOF 5.64 146 eP 44 37.78 -3.5X
KTK1 7.10 116 eP 44 59.00 -2.8X
DAG 7.25 312 eP 45 03.70 -0.1
NSS 8.87 161 iPd 45 23.22 -3.2X
SOD 9.17 117 iP 45 27.40 -3.1X
i 45 35.20
MOL 10.54 174 iPd 45 45.03 -4.4X
HFS 13.36 161 eP 46 23.20 -4.1X
0.3s 2.60nm 4.8mb
Z 16s 0.35um 3.5Msz
LR 50 02.00
KAF 13.47 133 iP 46 25.30 -3.5X
0.3s 1.00nm 4.3mb
NUR 14.60 139 iP 46 38.90 -4.6X
0.7s 17.40nm 4.8mb
i 05 05.80
EKA 18.10 196 P 47 33.00 4.9X
1.0s 9.50nm 3.9mb
WTS 21.12 177 eP 48 04.00 1.9
1.0s 13.00nm 4.3mb
CLL 22.06 167 eP 48 11.00 -0.5
1.7s 41.00nm 4.6mb
OBN 22.13 127 P 48 10.40 -1.7
1.4s *****nm 8.0mb X
Z 20s 0.30um 3.7Msz
ENN 22.34 179 eP 48 15.00 0.7
1.1s 25.00nm 4.6mb
MEM 22.50 179 P 48 17.60 1.7
e 48 26.60
BRG 22.56 165 eP 48 16.20 -0.3
1.4s 24.00nm 4.5mb
e 48 26.00
SNF 22.60 182 P 48 17.50 0.6
MOX 22.64 169 eP 48 18.80 1.5
1.5s 48.00nm 4.8mb
KSP 22.78 162 ePc 48 18.40 -0.3
DOU 23.02 181 P 48 20.20 -0.8
PRU 23.48 165 P 48 26.00 0.5
2.0s 50.80nm 4.7mb
e 48 34.00
GRF 23.57 170 eP 48 27.90 1.5
1.5s 22.00nm 4.5mb
Z 22s 0.06um 3.0Msz
e 48 33.50
e 48 37.70
KRA 23.95 156 ePd 48 31.00 1.0
e 48 41.50
KHC 24.27 167 P 48 34.50 1.3
LDF 24.63 189 eP 48 37.70 1.0
1.5s 36.55nm 4.8mb
SPC 24.84 156 eP 48 39.60 0.7
HAU 25.11 178 eP 48 41.30 0.0
1.1s 7.35nm 4.3mb
Z 22s 0.13um 3.4Msz
LPF 25.24 190 eP 48 40.80 -1.6
1.2s 23.80nm 4.8mb
BSF 25.29 178 eP 48 42.80 -0.3
ZST 25.48 161 iP 48 45.40 0.6
LOR 25.85 182 eP 48 47.40 -0.8
0.8s 5.35nm 4.3mb

21d 01h

Z	22s	0.13um	3.4Msz	1.4s	17.45nm	4.6mb	AVF	26.46 184 eP	16 36.50	0.9	
SRO	25.98 160 eP	48 49.70	0.3	AVF	26.42 184 eP	07 14.80	0.5	BGF	26.71 185 eP	16 36.90	-1.0
SSF	26.06 183 eP	48 49.30	-0.9	SMF	26.56 183 eP	07 14.80	-0.8		1.0s 10.00nm	4.5mb	
	1.6s 24.90nm	4.7mb			1.3s 12.65nm	4.4mb		TCF	27.00 186 eP	16 39.10	-1.4
LBF	26.13 182 eP	48 50.20	-0.7	CMP	29.29 152 ePc	07 42.00	1.6		0.7s 2.20nm	4.0mb	
	1.3s 14.45nm	4.5mb		INK	36.37 336 eP	08 41.00	-0.5	LSF	27.06 187 eP	16 39.60	-1.4
AVF	26.34 183 eP	48 52.10	-0.6	YKA	38.91 320 eP	09 01.80	-1.1		0.7s 2.75nm	4.1mb	
	1.5s 15.65nm	4.5mb			1.1s 2.00nm	3.7mb		LPG	27.73 179 eP	16 52.60	5.1X
SMF	26.47 182 eP	48 52.50	-1.5	YAK	39.98 38 eP	09 12.30	0.5	INK	36.36 336 eP	18 03.00	0.6
BGF	26.58 184 eP	48 54.10	-0.8	IRK	43.29 62 eP	09 41.00	2.0	YKA	38.92 321 eP	18 24.10	0.2
	0.9s 8.20nm	4.4mb		SES	49.45 311 eP	10 20.00	0.2		1.1s 2.60nm	3.8mb	
FRB	26.79 289 eP	49 01.00	4.4X	LRM	54.08 310 eP	11 02.40	-0.5	YAK	39.91 38 eP	18 31.60	-0.5
TCF	26.86 185 eP	48 54.90	-2.6X	BW06	56.30 307 eP	11 10.20	-1.0	FBA	41.12 343 eP	18 50.00	8.0X
	1.2s 8.95nm	4.3mb			1.1s 12.50nm	4.9mb			1.0s 5.00nm	4.2mb	
LSF	26.92 186 eP	48 56.40	-1.6	GKN	60.21 92 P	11 47.20	0.7	SES	49.47 311 eP	19 50.00	1.1
LPL	27.61 178 eP	49 03.30	-1.3	KKN	60.60 91 P	11 49.20	0.0	LRM	54.10 311 eP	20 23.90	-0.1
VR1	28.98 148 eP	49 16.00	-0.7	GUN	60.66 91 P	11 50.60	0.8	GKN	60.15 92 P	21 00.00	-7.0X
	e	07 38.00			S.D. = 1.2 on 34 of 37 obs.				S.D. = 1.1 on 34 of 43 obs.		
MLR	29.23 149 eP	49 23.00	3.9X		APR 21, 1991 02h 10m 57.10 ± 0.45s			? APR 21, 1991 02h 30m 46.63 ± 10.01s			
	e	17 17.00			73.141 N ± 6.4km	6.054 E ± 7.9km			16.876 N ± 59.1km	60.168 W ± 63.2km	
INK	36.36 336 eP	50 20.50	-0.2		DEPTH = 10.0km (geophysicist)				DEPTH = 14.2 ± 7.5 km		
YKA	38.85 320 eP	50 41.20	-0.4		4.4mb (18 obs.) 3.5Msz (4 obs.)				LEEWARD ISLANDS	(92)	
	1.0s 2.50nm	3.9mb			GREENLAND SEA	(640)			ML 2.5 (FDF).		
YAK	40.15 37 iP	50 52.10	-0.3	TRO	5.42 124 eP	12 19.47	-0.3	DEG	1.02 237 eP	31 05.60	0.0
FFC	43.26 306 eP	51 19.00	1.1	LOF	5.61 150 eP	12 20.86	-1.7		S	31 14.10	
	1.2s 12.00nm	4.5mb			eS	13 14.63		SEG	1.37 250 eP	31 11.10	-0.1
MAIO	45.42 113 eP	51 36.00	0.3	KTK1	6.94 118 eP	12 41.15	0.0	MGG	1.46 229 eP	31 12.50	0.1
	e	53 18.00		DAG	7.36 311 eP	12 45.00	-2.0	PAG	1.68 240 eP	31 15.80	0.1
SES	49.36 311 eP	52 07.00	0.7	NSS	8.91 163 eP	13 06.44	-2.2	BBL	1.84 223 eP	31 18.00	-0.1
LRM	53.99 310 eP	52 42.00	0.6		eS	14 30.03			S.D. = 0.1 on 5 of 5 obs.		
BW06	56.20 306 eP	52 56.80	-0.8	SOD	9.00 120 iP	13 10.60	0.7		APR 21, 1991 02h 53m 22.88 ± 0.92s		
	1.1s 16.37nm	5.0mb		MOL	10.64 176 eP	13 27.23	-5.2X		23.502 S ± 14.9km	66.838 W ± 12.8km	
S.D. = 1.0 on 39 of 52 obs.				KAF	13.38 135 iP	14 07.10	-2.1		DEPTH = 218.2 ± 13.8 km		
APR 21, 1991 02h 01m 36.20 ± 0.42s				HFS	13.39 163 eP	14 05.80	-3.6X		4.0mb (1 obs.)		
73.102 N ± 6.2km	5.831 E ± 8.1km				0.3s 1.50nm	4.5mb			JUJUY PROVINCE, ARGENTINA	(128)	
DEPTH = 10.0km (geophysicist)				Z	17s 0.54um	5.5Msz		SLA	1.73 135 e(P)	54 01.00	0.3
4.5mb (14 obs.) 3.5Msz (3 obs.)				NUR	14.53 141 iP	14 21.50	-2.8X		S	54 30.00	
GREENLAND SEA					e	14 27.00		ANT	3.29 266 iPd	54 17.00	-0.2
TRO	5.45 123 eP	02 58.00	-1.3	WTS	21.23 179 eP	15 45.00	0.1		iS	54 55.50	
DAG	7.34 311 eP	03 26.00	0.2		1.1s 13.00nm	4.2mb		LPB	7.03 350 P	55 05.20	0.4
SOD	9.04 119 iP	03 47.50	-2.1	OBN	22.00 129 P	15 53.00	0.4		S	56 26.00	
HFS	13.37 163 eP	04 44.00	-4.3X		1.2s *****nm	7.8mb X		ZOBO	7.30 350 Pd	55 07.70	-0.7
	0.3s 2.10nm	4.7mb		Z	20s 0.50um	3.9Msz			S	56 19.00	
Z	16s 0.50um	4.4Msz		CLL	22.12 168 eP	15 54.00	0.2	SIV	9.23 37 P	55 29.00	-4.0X
	LR	08 28.00			1.6s 29.00nm	4.5mb		PPD	14.40 87 eP	56 39.50	1.2
KAF	13.39 135 eP	04 46.80	-1.7	ENN	22.46 180 eP	15 57.00	-0.2	VAO	18.27 92 eP	57 21.00	-1.9
NUR	14.54 141 eP	04 53.60	-9.9X		1.0s 19.00nm	4.5mb		YKA	93.71 340 eP	06 16.10	0.9
OBN	22.03 128 P	06 31.00	-1.0	BRG	22.61 167 eP	15 58.80	0.1		0.6s 0.70nm	4.0mb	
	1.4s *****nm	8.0mb X			1.6s 30.00nm	4.5mb			S.D. = 1.5 on 7 of 8 obs.		
Z	20s 0.50um	3.9Msz		MOX	22.71 171 eP	16 00.00	0.3		APR 21, 1991 03h 06m 28.25 ± 0.70s		
CLL	22.09 168 eP	06 30.00	-2.7		1.4s 23.00nm	4.5mb			43.037 N ± 8.9km	0.443 W ± 4.8km	
	1.6s 29.00nm	4.5mb		KSP	22.82 163 eP	16 00.50	-0.3		DEPTH = 10.0km (geophysicist)		
ENN	22.42 180 eP	06 35.50	-0.4		e	16 00.00			PYRENEES	(378)	
	1.2s 23.00nm	4.5mb		ABH	23.35 178 eP	16 05.67	-0.3		MD 1.0 (STR).		
BRG	22.59 167 eP	06 37.50	-0.1	PRU	23.53 166 P	16 08.50	0.8	JAU	0.05 89 Pg	06 30.10	-0.5
	1.6s 28.00nm	4.5mb			1.8s 31.30nm	4.6mb			Sg	06 31.77	
MOX	22.68 170 eP	06 39.00	0.5		Z	16s 0.20um	3.7MszX	ESCF	0.10 293 Pg	06 30.66	-0.4
	1.4s 31.00nm	4.6mb		GRF	23.64 172 eP	16 10.40	1.6		Sg	06 33.11	
KSP	22.80 163 eP	06 39.60	-0.1		1.6s 30.00nm	4.6mb		OGE	0.13 351 Pg	06 30.46	-1.0
ABH	23.32 177 eP	06 45.96	1.2		Z	22s 0.08um	3.1Msz	LHE	0.18 227 Pg	06 32.83	0.5
PRU	23.51 166 eP	06 48.00	1.4		e	16 15.70		ATE	0.20 285 Pg	06 32.31	-0.3
	1.4s 20.00nm	4.5mb		KRA	23.96 158 ePd	16 13.80	2.0		Sg	06 36.33	
Z	16s 0.30um	3.8MszX			e	16 20.20		ATE	0.20 285 Pg	06 33.15	0.6
	e	06 57.90			e	16 18.90			Sg	06 35.87	
GRF	23.61 171 eP	06 49.00	1.4	KHC	24.32 168 P	16 18.80	3.3X	MADF	0.30 292 Pg	06 34.24	-0.2
	1.6s 34.00nm	4.7mb		LDF	24.79 190 eP	16 29.40	9.5X		Sg	06 39.18	
Z	22s 0.09um	3.2Msz		SPC	24.84 157 eP	16 21.00	0.3	EPF	0.57 90 Pg	06 39.40	-0.5
	e	06 54.80		HAU	25.22 180 eP	16 24.20	0.1		Sg	06 46.40	
KRA	23.94 157 eP	06 52.50	1.7		0.9s 6.55nm	4.3mb		LPO	2.02 35 Pg	07 04.70	1.9
	e	06 57.10			Z	22s 0.17um	3.5Msz		Sg	07 29.70	
KHC	24.30 168 iPc	06 57.40	3.1X	LPF	25.40 191 eP	16 30.30	4.7X	LFF	2.09 24 Pg	07 06.40	2.7X
SPC	24.83 157 eP	07 00.70	1.0		1.1s 12.20nm	4.5mb			Sg	07 31.90	
HAU	25.18 179 eP	07 02.40	-0.4	BSF	25.40 179 eP	16 25.60	-0.2		S.D. = 1.0 on 9 of 10 obs.		
	1.2s 8.95nm	4.3mb		ZST	25.52 163 eP	16 27.70	0.9		APR 21, 1991 03h 09m 22.40 ± 0.50s		
Z	22s 0.15um	3.5Msz		LOR	25.98 183 eP	16 31.90	0.8		20.057 N ± 12.6km	70.245 W ± 10.6km	
BSF	25.36 178 eP	07 05.60	1.0		0.8s 4.05nm	4.2mb			DEPTH = 33.0km (normal)		
	1.2s 11.90nm	4.5mb			Z	22s 0.15um	3.5Msz		4.2mb (9 obs.) 3.5Msz (1 obs.)		
ZST	25.50 162 eP	07 06.40	0.7	SRO	26.00 161 eP	16 32.90	1.6		DOMINICAN REPUBLIC REGION	(88)	
SRO	25.99 161 eP	07 11.30	1.0	LBF	26.26 183 eP	16 34.70	0.9		Felt at Puerto Plata.		
SSF	26.15 184 eP	07 10.40	-1.4		1.0s 7.00nm	4.3mb					
	1.4s 17.45nm	4.6mb									
LBF	26.22 183 eP	07 11.10	-1.4								

21d 03h

MGP 3.61 124 P 10 18.00 0.5
 LRS 3.66 118 P 10 17.70 -0.4
 SJG 4.33 116 i P 10 27.20 -0.5
 LPR 4.49 112 P 10 29.70 -0.2
 CPD 4.56 115 P 10 30.20 -0.7
 HBF 15.69 327 P 13 04.40 1.8
 LHS 17.14 329 P 13 19.30 -1.7
 JSC 17.20 328 P 13 21.00 -0.8
 BLA 19.26 335 P 13 47.50 0.4
 0.7s 5.56nm 3.9mb
 TKL 19.58 325 P 13 54.90 4.2X
 RSCP 20.53 322 P 14 02.50 1.8
 0.7s 6.92nm 4.1mb
 TBR 21.29 352 P 14 08.50 0.2
 PWLA 21.64 317 P 14 11.20 -0.7
 TUL 27.42 311 e(P) 15 05.40 -1.7
 1.4s 17.40nm 4.5mb
 Z 18s 0.13um 3.5msz

MEO 29.00 306 e(P) 15 20.50 -0.9
 ANMO 35.16 303 P 16 14.10 -1.4
 1.0s 7.25nm 4.6mb
 GOL 35.89 311 P 16 21.70 -0.1
 0.8s 2.98nm 4.3mb
 ZOBO 36.16 177 eP 16 26.00 1.5
 LPB 36.42 177 eP 16 17.00 -9.5X
 RSSD 36.95 318 P 16 32.30 1.8
 0.7s 1.21nm 3.9mb
 DAU 40.38 309 P 16 58.00 -1.3
 MSU 40.53 306 P 17 01.50 1.0
 FRB 43.68 1 eP 17 27.00 1.6
 TNP 44.31 304 P 17 31.40 0.1
 0.9s 3.26nm 4.2mb
 PPD 45.74 155 (P) 17 38.00 -4.5X
 NEW 46.92 318 P 17 51.60 -0.1
 1.1s 6.17nm 4.5mb
 YKA 52.12 336 eP 18 31.20 -0.2
 0.8s 0.90nm 3.8mb
 S.D. = 1.2 on 24 of 27 obs.

% APR 21, 1991 03h 12m 19.34± 0.95s
 37.724 N ± 7.4km 15.013 E ± 7.6km
 DEPTH = 10.0km (geophysicist)
 SICILY (398)

MNO 0.33 310 P 12 26.00 -0.2
 eSg 12 30.70
 ATN 0.56 39 P 12 31.00 0.2
 eSg 12 40.90
 MEU 0.62 186 P 12 31.60 -0.4
 eSg 12 41.10
 GIB 0.82 289 P 12 34.50 -0.9
 eSg 12 48.70
 MCT 1.10 266 P 12 41.10 1.0
 FAI 1.15 248 P 12 41.10 0.2
 S.D. = 0.8 on 6 of 6 obs.

& APR 21, 1991 03h 26m 27.80s
 33.860 N 118.180 W
 DEPTH = 7.0km
 SOUTHERN CALIFORNIA (43)
 <PAS>P>. ML 2.2 (PAS). Felt at
 Bellflower.

MWC 0.38 16 ePd 26 35.40 -0.1
 CIS 0.49 202 iPd 26 36.80 -0.8
 PEC 0.85 88 eP 26 42.60 -1.9
 PLM 1.21 114 eP 26 48.50 -2.3
 4 obs. associated

? APR 21, 1991 04h 12m 00.94± 1.83s
 36.560 N ± 63.9km 71.399 E ± 57.9km
 DEPTH = 33.0km (normol)
 3.9mb (4 obs.)
 AFGHANISTAN-USSR BORDER REGION (717)

GKN 14.07 124 P 15 20.52 0.4
 0.5s 19.00nm 5.1mb X
 DMN 14.64 124 P 15 28.92 1.2
 KKN 14.64 123 P 15 27.12 -0.6
 PKI 14.87 123 P 15 30.94 0.2
 0.4s 8.00nm 4.4mb
 GUN 14.97 121 P 15 30.88 -1.3
 HFS 43.22 322 eP 20 00.60 0.4
 0.5s 1.00nm 3.8mb
 NB2 44.53 323 P 20 10.30 -0.6
 0.7s 1.50nm 4.0mb

YKA 81.17 3 eP 24 14.50 0.4
 0.5s 0.30nm 3.6mb
 S.D. = 0.9 on 8 of 8 obs.

? APR 21, 1991 05h 01m 43.69± 1.36s
 45.971 N ± 20.7km 150.811 E ± 22.5km
 DEPTH = 33.0km (normol)
 4.5mb (7 obs.)

KURIL ISLANDS (221)

KUSJ 5.22 239 P 03 01.90 0.4
 eS 03 54.30
 ASAJ 6.08 255 eP 03 18.10 4.5X
 HOOJ 6.49 239 P 03 21.20 1.9
 eS 04 27.00
 MRRJ 7.84 247 eP 03 42.20 3.9X
 YAK 20.14 330 iP 06 23.60 6.2X
 e 09 58.00

YKA 52.50 36 eP 10 59.70 4.5X
 0.6s 0.50nm 3.7mb
 GUN 53.47 274 P 11 03.70 0.4
 KKN 53.96 274 P 11 06.42 -0.3
 0.6s 6.00nm 4.8mb
 PKI 54.01 274 P 11 05.80 -1.4
 0.6s 5.00nm 4.7mb
 DMN 54.20 274 P 11 07.76 -0.8
 0.6s 9.00nm 4.9mb
 GKN 54.28 275 P 11 07.94 -1.1
 0.5s 12.00nm 5.1mb
 FRB 66.29 18 eP 12 32.00 1.7
 WRA 67.28 197 P 12 36.00 -1.1
 0.8s 1.00nm 4.0mb
 N82 68.44 340 P 12 44.30 0.3
 0.7s 1.00nm 4.0mb
 S.D. = 1.3 on 10 of 14 obs.

APR 21, 1991 06h 57m 24.39± 0.61s
 23.179 N ± 8.5km 95.813 E ± 6.8km
 DEPTH = 33.0km (normol)
 4.1mb (3 obs.)

BURMA (296)

CHG 5.24 145 ePn 58 41.50 -1.0
 iPg 59 00.00
 iSg 00 06.30
 KMI 6.62 72 ePn 59 05.50 3.4X
 Pg 59 25.50
 BDT 6.62 153 ePn 59 01.00 -0.9
 LSA 7.72 328 Pn 59 18.70 0.9
 KHT 8.75 162 ePg 00 07.20 35.5X
 eSg 02 05.30
 GUN 10.13 300 P 59 49.60 -1.4
 PKI 10.37 297 P 59 53.40 -0.9
 0.6s 31.00nm 5.7mb X
 GYA 10.38 69 eP 59 55.80 1.5
 CD2 10.46 41 eP 59 54.40 -0.8

Z 13s 0.73um
 KKN 10.56 298 P 59 55.80 -1.0
 DMN 10.64 297 P 59 57.20 -0.7
 GKN 11.17 298 P 00 02.50 -2.6X
 XAN 15.78 44 eP 01 07.00 1.2
 HYB 17.17 254 eP 01 29.00 5.5X
 NDI 17.60 292 eP 01 31.00 2.3
 GBA 19.85 245 Pd 01 57.80 2.2
 0.7s 3.80nm 3.8mb
 TIY 20.33 41 Pc 01 59.30 -1.3
 Z 14s 0.60um 4.1mszX
 N 11s 0.35um
 BTO 21.10 31 eP 02 05.00 -3.4X
 N 11s 0.20um
 E 11s 0.30um

WMO 21.65 344 P 02 13.40 -0.6
 1.0s 20.00nm 4.5mb
 PP 02 19.00
 KOD 21.75 237 eP 02 19.00 3.6X
 BJI 24.06 41 eP 02 44.50 7.0X
 WRA 57.01 136 P 07 10.00 0.5
 0.6s 1.20nm 4.1mb
 MLR 59.94 310 eP 07 33.00 3.1X
 S.D. = 1.4 on 15 of 23 obs.

% APR 21, 1991 07h 14m 09.83± 1.53s
 40.093 N ± 9.5km 29.349 E ± 11.1km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.6 (ISK).

IZI 0.26 21 iPg 14 15.80 0.4
 eSg 14 19.40
 YLV 0.47 2 iPg 14 19.00 -0.5
 DST 0.74 229 ePg 14 24.00 -0.3
 eSg 14 33.20
 BNT 1.12 284 ePn 14 31.00 0.1
 EDC 1.17 283 ePn 14 31.50 -0.1
 CTT 1.26 327 ePn 14 33.00 -0.3
 KGT 1.61 284 ePn 14 39.00 0.7
 S.D. = 0.5 on 7 of 7 obs.

? APR 21, 1991 07h 42m 29.68± 6.53s
 16.905 N ± 21.3km 60.191 W ± 50.4km
 DEPTH = 10.0km (geophysicist)
 LEEWARD ISLANDS (92)
 ML 3.2 (FDF).

DEG 1.02 235 eP 42 48.93 -0.1
 S 42 59.20
 SEG 1.36 249 eP 42 54.68 0.1
 S 43 10.00
 MGG 1.46 228 eP 42 56.13 0.1
 BPA 1.60 275 eP 42 58.04 -0.1
 DOG 1.62 238 eP 42 58.50 0.1
 PAG 1.67 239 eP 42 59.18 0.0
 S 43 16.50
 BBL 1.85 222 eP 43 01.61 -0.1
 S.D. = 0.1 on 7 of 7 obs.

? APR 21, 1991 07h 48m 21.03± 1.01s
 39.108 N ± 9.6km 27.590 E ± 15.1km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.5 (ISK).

IZM 0.75 200 ePg 48 35.90 0.1
 eSg 48 46.90
 DST 0.95 58 ePn 48 38.70 -0.4
 KCT 1.28 27 ePn 48 45.50 0.7
 KGT 1.36 351 iPn 48 45.60 -0.4
 S.D. = 0.9 on 4 of 4 obs.

% APR 21, 1991 08h 03m 32.94± 0.94s
 36.976 N ± 8.7km 29.477 E ± 7.1km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.4 (ISK).

ELL 0.41 123 iPg 03 41.40 0.0
 iSg 03 49.40
 YER 0.97 280 iPn 03 51.40 0.0
 BCK 1.01 61 iPn 03 52.10 0.0
 KHL 1.35 2 iPn 03 57.50 -0.3
 ALT 2.13 13 ePn 04 09.50 0.3
 S.D. = 0.3 on 5 of 5 obs.

? APR 21, 1991 08h 11m 16.94± 1.04s
 37.703 N ± 8.3km 14.905 E ± 9.9km
 DEPTH = 10.0km (geophysicist)
 SICILY (398)

MNO 0.28 324 Pc 11 23.80 0.9
 eSg 11 28.00
 MEU 0.60 178 P 11 29.40 0.3
 eSg 11 38.90
 ATN 0.64 44 P 11 29.40 -0.3
 eSg 11 37.90
 GIB 0.75 293 P 11 30.90 -0.8
 eSg 11 43.90
 S.D. = 1.2 on 4 of 4 obs.

APR 21, 1991 08h 51m 55.74± 0.43s
 37.972 N ± 3.7km 19.952 E ± 2.0km
 DEPTH = 39.8 ± 4.7 km
 4.7mb (36 obs.)
 IONIAN SEA (399)
 MD 4.8 (TTG), 4.5 (THE).

SRN 1.91 1 iPd 52 22.20 -4.2X
 AGG 2.14 60 eP 52 32.10 2.3
 LSK 2.23 13 iPnc 52 33.60 2.4
 VLI 2.69 117 ePn 52 38.20 0.7
 KZN 2.73 31 ePn 52 40.00 1.8
 KBN 2.73 14 iPnc 52 39.40 1.3
 LIT 2.90 42 eP 52 42.50 1.9
 ATH 2.98 89 ePn 52 42.00 0.4
 FNA 3.02 21 eP 52 44.20 2.0

21d 08h

OHR	3.20	12	iPnc	52 48.20	3.3X	COZ	8.04	23	ePd	53 55.00	1.9	KSP	13.13	350	eP	55 01.00	-1.0
			iSg	53 26.20		HRT	8.04	66	iP	53 52.40	-0.6				e	55 08.80	
TDS	3.29	302	P	52 47.00	0.9	RSM	8.22	319	P	53 55.30	-0.1	FEL	13.19	322	eP	55 02.19	-0.8
			eSn	53 27.00		CMP	8.22	26	eP	53 55.00	-0.5	GRF	13.29	335	eP	55 02.80	-1.3
TIR	3.37	359	iPnc	52 48.60	1.4	CRE	8.29	315	P	53 57.50	1.1		1.6s		17.00nm		4.7mb
MSI	3.48	275	P	52 48.60	-0.1	VBY	8.30	337	ePnd	53 55.60	-0.9	Z	18s		0.30um		5.9MszX
THE	3.54	40	eP	52 50.20	0.6	GPA	8.38	71	eP	53 58.00	0.4				e	55 08.50	
			eS	53 30.20		ZAG	8.38	341	iPn	53 55.00	-2.5X	BRG	13.59	344	eP	55 06.00	-2.0
ATN	3.55	274	P	52 50.10	0.3				iSn	55 29.00					e	55 12.40	
BRT	3.60	325	P	52 51.40	1.0	BCK	8.45	90	iP	54 03.10	4.5X				i	55 13.60	
			iSn	53 36.00		RIY	8.46	332	ePn	53 57.80	-0.8				e	55 19.80	
LACI	3.66	357	iPnc	52 52.50	1.1	PTJ	8.46	341	iPnc	53 56.70	-2.1				i	55 20.00	
PHP	3.73	6	iPnc	52 53.10	0.8				e	55 30.50					i	55 33.10	
VAY	3.91	30	iPnc	52 59.00	4.1X	SFI	8.53	317	P	54 00.50	0.8				e	56 17.00	
			iPg	53 05.30		PGD	8.58	316	P	54 00.00	-0.5				e	56 44.10	
			i	53 14.20		ISR	8.70	33	ePd	54 03.00	1.0				e	57 55.40	
			iSn	53 31.00		MLR	8.74	29	iPc	54 02.00	-0.7	BSF	13.77	320	eP	55 09.90	-0.7
			iSb	53 59.50		FIR	8.77	314	eP	54 15.00	12.0X		0.6s		10.80nm		4.8mb
			iSg	54 06.30		CEY	8.79	334	ePn	54 03.00	-0.2	CDF	13.92	323	eP	55 12.20	-0.3
KNT	3.92	35	eP	52 55.80	0.8				eSn	54 39.00		MOX	13.99	338	eP	55 13.20	-0.2
			eS	53 39.80		TRI	9.00	331	ePn	54 04.80	-1.3		0.7s		25.00nm		5.1mb
BAI	3.95	324	P	52 56.00	0.6				iSn	55 43.80		Z	10s		1.00um		4.7Msz
ULC	4.02	353	iPnd	52 56.35	-0.2	LJU	9.01	335	ePn	54 05.50	-0.8	N	16s		1.20um		
			iSn	53 44.13					eSn	55 45.00		E	16s		1.50um		
MEU	4.08	259	Pd	52 56.30	-1.2	VOY	9.23	333	ePn	54 07.90	-1.5	HAU	14.11	320	eP	55 14.90	0.0
			eSn	53 43.60					eSn	55 46.30			0.5s		11.65nm		4.8mb
KKS	4.11	5	ePn	52 59.40	1.7	MME	9.35	315	P	54 09.00	-2.2	CLL	14.21	342	eP	55 22.00	5.8X
MNO	4.16	271	Pc	52 58.80	0.2	VR1	9.36	30	ePc	54 13.50	2.3		1.4s		26.00nm		4.7mb
SRS	4.22	41	eP	52 59.60	0.4	CFR	9.47	38	eP	54 10.00	-2.5X				e	55 32.00	
BCI	4.39	1	iPnd	53 02.30	0.7	BUD	9.53	356	iPn	54 13.00	-0.4				eS	58 15.00	
BDV	4.39	349	iPnd	53 01.01	-0.7	SRO	9.91	354	eP	54 16.60	-2.0	LBF	14.81	313	eP	55 29.00	4.9X
			iSn	53 52.35					i	54 25.20		LOR	15.03	313	eP	55 29.10	2.1
TTG	4.48	353	iPnd	53 02.85	-0.2				i	56 28.20			1.1s		17.10nm		4.2mb
			iSn	53 55.38		PSZ	9.94	360	iP	54 17.50	-1.7	Z	20s		0.35um		
KKB	4.57	31	iP	53 05.00	0.7	FVI	10.12	331	P	54 19.90	-1.5	CAF	15.09	303	eP	55 32.90	5.1X
HCY	4.61	346	iPnd	53 03.91	-0.9	BBTK	10.16	75	eP	54 24.00	1.8		1.2s		23.80nm		4.3mb
			iSn	53 56.18		CTI	10.16	325	P	54 20.40	-1.7	SSF	15.13	312	eP	55 30.40	2.2
PVY	4.62	0	iPnc	53 05.81	0.8	KBA	10.32	334	eP	54 23.00	-1.4		0.9s		9.00nm		4.0mb
			iSn	53 59.40					i	54 24.50		BGF	15.27	310	eP	55 34.40	4.3X
MMB	4.64	38	iPc	53 05.00	-0.3				iPP	54 31.00			1.1s		19.55nm		4.3mb
GIB	4.68	272	P	53 06.20	0.3				iS	56 03.40		MAF	15.29	308	eP	55 30.90	0.5
NKY	4.89	352	iPnd	53 08.45	-0.4				i	56 17.10			1.4s		26.15nm		4.3mb
			iSn	54 04.38					iSS	56 20.40		EROQ	15.37	287	eP	55 37.00	5.5X
IVA	4.89	360	iPnc	53 09.68	0.8	SAL	10.37	320	P	54 24.00	-1.0	TCF	15.54	308	eP	55 37.80	4.2X
			iSn	54 06.95		BOB	10.41	314	P	54 25.20	-0.3		1.0s		9.00nm		3.9mb
MCT	5.02	268	P	53 09.30	-1.4	ZST	10.43	349	eP	54 25.20	-0.5	RJF	15.59	304	eP	55 37.00	2.8X
FAI	5.03	264	Pd	53 10.80	0.1				e	54 30.60			1.2s		23.80nm		4.3mb
BRY	5.04	348	iPnd	53 09.98	-1.0				i	54 38.20		Z	20s		0.45um		5.9Msz
			iSn	54 06.35					e	55 35.20		BNS	15.84	329	iPd	55 46.80	9.5X
PRK	5.11	74	ePn	53 12.50	0.7				e	57 56.30			1.3s		69.00nm		4.6mb
VTs	5.24	27	iPc	53 15.00	1.2	VKA	10.62	347	iPc	54 24.90	-3.5X				i	55 49.60	
NPS	5.29	119	ePn	53 15.00	0.5				iPP	54 35.10		LSF	15.95	307	eP	55 44.10	5.3X
RDO	5.36	52	ePn	53 14.50	-0.8				i	56 20.20			1.2s		23.80nm		4.2mb
PLE	5.37	356	iPnd	53 15.55	0.0				i	56 21.40		LFF	15.98	302	eP	55 40.50	1.4
			iSn	54 17.03					LR	00 15.00			1.2s		17.85nm		4.1mb
USI	5.38	280	P	53 14.10	-1.5	KMR	10.94	339	iP+	54 32.20	-0.5	MEM	16.07	326	iP	55 47.20	7.0X
PLD	5.51	40	iPc	53 18.00	0.6				i	56 39.60		ENN	16.22	327	eP	55 49.00	6.9X
ALN	5.55	56	eP	53 17.50	-0.5	BHG	11.03	334	iPc	54 35.30	1.3		1.2s		104.00nm		4.8mb
PGB	5.59	34	iPc	53 19.00	0.3	OGA	11.06	326	eP	54 42.70	8.1X	DOU	16.36	323	P	55 49.10	5.2X
DUI	5.61	313	P	53 19.80	0.9	SPC	11.22	1	eP	54 36.10	-0.5				S	59 02.00	
IZM	5.78	84	eP	53 20.40	-0.9	OSS	11.33	323	ePd	54 39.10	0.9	ECHE	16.39	282	eP	55 49.00	4.5X
HVAR	5.84	334	iPn	53 20.40	-1.8	VDL	11.51	321	ePc	54 40.80	0.1	SNF	16.78	323	P	55 54.40	5.2X
			i(Sn)	54 26.40		FUR	11.99	331	eP	54 46.90	0.0	WTS	16.78	331	eP	56 00.00	10.8X
DIM	5.91	45	iPc	53 23.00	-0.1	LLS	12.01	321	ePd	54 47.90	0.5		1.5s		87.00nm		
KGT	6.22	64	eP	53 26.60	-0.9	MMK	12.02	316	ePd	54 50.50	3.0X	UCC	16.94	324	eP	56 03.00	11.8X
AZI	6.41	311	P	53 29.20	-0.9	KHC	12.07	340	iP	54 46.00	-2.0	MFF	17.16	307	eP	55 55.50	1.5
EDC	6.59	66	iP	53 32.00	-0.7		N	14s		2.30um			1.3s		57.75nm		4.5mb
BNT	6.63	66	iP	53 32.80	-0.5		E	14s		2.30um		ETOR	17.24	286	eP	55 57.00	1.8
PVL	6.65	36	iPc	53 32.00	-1.4				e	54 51.80		DBN	17.52	328	eP	56 14.00	15.6X
YER	6.67	95	eP	53 36.00	2.1				e	55 00.50					eS	59 28.00	
JMB	6.77	46	iPc	54 34.00	58.8X	KRA	12.08	360	eP	54 50.90	-1.2	EVIA	17.63	279	eP	56 00.50	0.4
8EO	6.85	3	ePn	53 33.50	-2.8				e	54 50.90		ECRI	17.74	292	eP	56 03.00	1.7
			iPg	54 08.50		WET	12.28	338	eP	54 49.90	-0.9	LDF	18.01	313	eP	56 07.10	2.6X
			iSg	55 49.50		DIX	12.34	315	ePd	54 54.10	2.2		1.1s		19.55nm		4.2mb
KCT	6.92	68	iP	53 36.40	-0.9	LPG	12.39	312	eP	54 58.00	5.4X	LPF	18.30	310	eP	56 07.40	-0.7
DST	6.97	74	eP	53 37.00	-1.1	LPL	12.41	312	eP	54 57.90	5.1X	FLN	18.30	313	eP	56 08.70	0.6
MNS	7.10	311	P	53 39.70	-0.1	HLW	12.44	127	eP	54 47.50	-5.5X	Z	22s		0.38um		
SRE	7.12	19	eP	54 00.00	20.0X				eS	56 53.00		GRR	18.35	311	eP	56 09.80	1.1
DMK	7.13	55	iP	53 39.00	-1.2	EMS	12.61	314	ePc	54 58.00	2.7X	AFC	18.62	275	eP	56 11.00	-1.4
CTT	7.28	62	eP	53 41.00	-1.3	PRU	12.62	344	Pd	54 54.00	-1.3	EBAN	18.69	278	eP	56 10.70	-2.2
KHL	7.55	84	eP	53 46.00	-0.2		1.0s			30.40nm		TOL	18.76	283	eP	56 14.00	0.1
ARV	7.67	318	Pc	53 47.70	0.0		N	12s		1.10um		GUD	18.83	286	iPc	56 15.50	0.6
ITU	7.67	63	iPc	53 45.00	-2.8		E	12s		2.20um		MUD	19.85	342	iPc	56 34.00	8.1X
BZS	7.74	9	eP	53 16.50	-32.2X				e	55 01.50			1.2s		21.00nm		4.3mb
YLV	7.75	68	iP	53 47.40	-1.6				e	55 07.60		EHOR	19.88	277	eP	56 24.00	-2.4
ELL	8.02	96	iP	53 54.90	2.1				S	57 42.00		EPLA	20.31	284	eP	56 31.00	0.0
ALT	8.04	79	eP	53 52.50	-0.5	SLE	12.89	323	ePd	54 59.80							

0.9s *****nm		8.1mb X		MD 2.8 (ISK).				TOA		3.81 57 iPc		25 22.30 -1.5		
Z	12s	1.50um	4.6MsZx		DST 0.67 265 ePg				02 01.70 -0.7		SGAM 3.88 82 eP		25 22.51 -2.2	
N	12s	1.10um			eSg 02 12.20						MCK 4.01 27 ePc		25 24.90 -1.7	
E	12s	0.90um			IZI 0.67 359 iPg				02 02.30 -0.2		TZL 4.10 60 ePc		25 25.30 -2.4	
ePP 56 54.00				ALT 0.78 142 ePg				02 04.50 0.1		RAGM 4.14 84 ePc		25 26.24 -2.1		
ePPP 57 14.00				YLV 0.90 354 iPn				02 06.40 0.0		SDG 4.27 54 ePc		25 27.75 -2.2		
eS 00 14.00				HRT 1.16 7 ePn				02 10.60 -0.2		BWN 4.30 21 eP		25 28.22 -2.2		
TAB	20.76	82 eP	56 32.00	-3.8X	BNT 1.39 300 ePn				02 15.30 0.8		HMT 4.35 85 eP		25 28.96 -2.1	
IFR	20.81	265 iPd	56 38.00	1.6	EDC 1.42 299 ePn				02 15.00 0.0		PAX 4.53 49 iPc		25 31.34 -2.3	
i 56 42.00				KGT 1.85 296 iPn				02 21.40 0.2		GLB 4.66 71 ePc		25 32.22 -3.1		
EVAL 21.09 277 eP		56 37.00	-1.9	S.D. = 0.5 on 8 of 8 obs.						THY 4.70 44 eP		25 33.87 -2.0		
ERUA 21.13 291 eP		56 40.00	0.7	& APR 21, 1991 09h 24m 25.82s						NEA 4.74 21 eP		25 33.64 -2.7		
UPP 21.96 357 iP		56 47.90	0.5	60.217 N 152.993 W						WRH 4.84 26 iPc		25 35.17 -2.5		
iS 00 46.00				DEPTH = 128.7km						CROM 4.90 79 ePc		25 36.81 -1.9		
HFS	22.54	352 eP	56 54.70	1.5	3.8mb (2 obs.)						DDM 4.91 40 iPc		25 37.87 -0.8	
0.6s 39.10nm		5.0mb		SOUTHERN ALASKA				(2)		WAX 5.05 83 eP		25 37.51 -3.0		
Z 15s 0.27um		3.8MsZx		<AEIC>.						CCB 5.06 26 iPc		25 37.84 -2.7		
LR 04 56.00				RED 0.23 28 iPc				24 43.11 0.8		TGL 5.06 79 ePc		25 38.65 -2.1		
NUR	22.75	6 iP	56 55.30	0.0	RS2 0.27 25 iPc				24 43.47 0.9		HDA 5.06 31 iPc		25 38.20 -2.4	
0.7s 33.40nm		4.9mb		RSO 0.27 26 iPc				24 43.44 0.8		RDS 5.14 24 ePc		25 39.25 -2.5		
i 57 07.80				RDW 0.28 19 iPc				24 43.44 0.8		MDM 5.24 23 eP		25 40.27 -2.9		
EKA	23.34	326 Pc	57 03.30	2.3	REF 0.31 28 iPc				24 43.51 0.8		FBA 5.28 25 iPc		25 41.60 -2.0	
0.9s 21.00nm		4.6mb		RDN 0.32 21 iPc				24 43.47 0.8		BALM 5.31 76 eP		25 41.23 -2.9		
N82	23.73	349 P	57 07.00	2.1	NCT 0.35 5 iPc				24 43.66 0.9		GLM 5.44 26 ePc		25 43.12 -2.7	
0.6s 24.00nm		4.9mb		DFR 0.41 22 iPc				24 43.62 -1.0		DOT 5.44 47 ePc		25 42.91 -3.0		
KAF	24.49	7 iP	57 13.20	1.1	RDT 0.46 39 iPc				24 44.08 -0.8		WRG 5.48 87 eP		25 45.44 -1.0	
0.6s 28.10nm		5.0mb		PDB 0.74 235 ePc				24 45.56 -1.1		TMW 5.68 52 eP		25 46.57 -2.5		
SOD	29.69	5 iP	58 01.30	1.6	HOM 0.88 129 iPd				24 47.27 -0.5		CTGM 5.80 78 iPc		25 49.18 -1.7	
i 58 07.10				AUE 0.88 193 ePd				24 46.84 -0.9		IMA 5.88 357 ePc		25 50.00 -2.0		
LKO	36.46	226 Pd	58 59.20	0.3	AUH 0.89 195 ePd				24 47.16 -0.8		BCPM 6.69 86 eP		26 01.11 -1.8	
1.0s 17.50nm		4.9mb		AUI 0.91 194 eP				24 47.02 -1.0		PNL 6.85 89 ePc		26 02.58 -2.5		
KIC	38.64	222 Pd	59 17.60	0.5	XLV 1.00 139 iPd				24 47.81 -1.1		HON 7.16 90 ePc		26 06.34 -2.8	
LIC	38.90	222 P	59 20.10	0.8	eS 25 02.66						ANM 7.21 312 eP		26 08.13 -1.8	
NDI	48.08	83 eP	00 33.00	-0.4	NKA 1.02 58 iPc				24 49.80 0.8		FYU 7.26 25 eP		26 06.56 -4.0	
GDH	49.27	333 ePd	00 44.00	2.0	CKL 1.03 18 iPc				24 48.72 -0.6		INK 11.66 38 P		27 06.00 -3.1	
0.8s 26.87nm		5.3mb		SPU 1.07 25 iPc				24 48.79 -0.9		0.2s 1.20nm		4.2mb		
i 00 51.00				BGL 1.09 15 iPc				24 49.45 -0.5		YKA 18.36 66 eP		28 29.70 -3.1		
WMO	50.25	61 P	00 50.00	0.0	CNPM 1.13 127 iPd				24 49.30 -0.9		0.8s 2.10nm		3.5mb	
GKN	54.20	80 P	01 18.40	-1.4	iS 25 07.64						FRB 37.10 47 eP		31 28.00 3.4	
0.5s 10.00nm		5.1mb		CRP 1.13 21 iPc				24 49.76 -0.6		92 obs. associated				
DMN	54.75	80 P	01 22.60	-1.4	BRLK 1.15 112 eP				24 49.52 -0.9		& APR 21, 1991 09h 43m 57.65s			
KKN	54.80	80 P	01 22.80	-1.5	eS 25 07.16						60.042 N 153.508 W			
0.6s 11.00nm		5.1mb		MCNL 1.24 214 ePc				24 50.14 -1.2		DEPTH = 156.8km				
HYB	54.87	95 eP	01 23.00	-1.7	NCG 1.26 19 iPc				24 50.94 -0.7		SOUTHERN ALASKA		(2)	
PKI	55.01	80 P	01 24.40	-1.6	CDD 1.33 195 iPd				24 50.95 -1.4		<AEIC>.			
GUN	55.21	80 P	01 26.00	-1.5	SLKM 1.41 77 iPc				24 51.74 -1.4		PDB 0.43 234 ePc		44 18.66 0.6	
FRB	56.08	328 eP	01 34.00	1.2	SVW 1.57 306 iPd				24 54.20 -0.9		eS 44 35.18			
GBA	56.20	99 Pd	01 31.00	-3.2X	SYI 1.64 169 ePd				24 54.25 -1.5		RED 0.53 44 ePc		44 19.32 -0.9	
0.7s 3.10nm		4.4mb		eS 25 16.86						eS 44 36.20				
SCH	58.29	317 eP	01 49.00	0.4	SUA 1.67 40 iPc				24 55.32 -0.9		RDW 0.56 38 ePc		44 19.74 -0.8	
GTA	60.32	61 eP	02 02.00	-0.9	SEW 1.78 92 ePd				24 56.13 -1.2		eS 44 36.57			
0.8s 10.00nm		5.0mb		SKT 1.91 21 iPc				24 57.87 -1.2		RSO 0.56 41 iPc		44 19.74 -0.9		
LZH	64.70	63 eP	02 30.00	-2.2	PMS 1.98 57 iPc				24 58.19 -1.7		eS 44 36.45			
1.5s 23.00nm		5.0mb		PWA 2.09 45 iPc				24 59.59 -1.7		NCT 0.60 29 ePc		44 19.89 -0.8		
YAK	65.53	29 iP	02 37.60	0.7	PLRM 2.34 52 iPc				25 01.70 -2.7		eS 44 36.87			
e 03 05.00				PMR 2.34 52 iPc				25 02.10 -2.3		RDN 0.60 38 iPc		44 19.96 -0.8		
e 03 19.00				GHO 2.52 50 iPc				25 04.39 -2.5		REF 0.60 42 iPc		44 19.93 -0.9		
e 11 20.00				KNM 2.62 85 ePc				25 04.98 -3.1		DFR 0.69 36 iPc		44 20.20 -1.0		
CD2	67.27	68 P	02 48.80	0.3	MTU 2.68 93 ePc				25 07.10 -1.8		eS 44 38.64			
HHC	67.52	55 P	02 50.60	0.5	SML 2.77 53 eP				25 07.97 -2.1		RDT 0.77 45 iPc		44 20.74 -0.9	
XAN	69.32	63 eP	03 01.10	-0.1	GLI 2.99 75 eP				25 09.39 -3.5		MCNL 0.96 206 ePd		44 22.06 -0.9	
TIY	69.75	58 Pd	03 04.00	0.1	TTA 3.08 333 ePd				25 12.90 -1.3		HOM 1.02 111 eP		44 22.92 -0.5	
BJI	70.92	54 eP	03 11.00	0.2	SCM 3.20 57 ePc				25 13.10 -2.6		eS 44 41.74			
BRW	71.00	359 eP	03 19.90	9.2X	HUR 3.20 29 eP				25 13.80 -1.9		NNL 1.11 89 eP		44 24.41 0.1	
GYA	71.81	70 P	03 16.40	-0.1	HIN 3.24 84 eP				25 13.64 -2.5		CDD 1.12 184 iPd		44 23.30 -1.1	
INK	72.19	350 eP	03 19.50	1.6	VLZ 3.40 71 ePc				25 15.34 -3.0		eS 44 44.10			
YKA	73.43	340 eP	03 26.60	1.3	MID 3.45 100 ePc				25 16.85 -2.1		CNPM 1.26 113 ePd		44 24.73 -1.0	
0.8s 4.10nm		4.5mb		TRF 3.49 20 ePc				25 17.49 -2.2		eS 44 44.74				
CN2	74.35	46 Pc	03 31.40	0.4	CVA 3.61 82 ePc				25 19.19 -1.9		CKL 1.29 26 iPc		44 25.43 -0.7	
SNY	74.46	49 eP	03 31.00	-0.6	KLU 3.69 67 iPc				25 19.30 -3.0		eS 44 46.70			
FFC	75.13	329 eP	03 38.00	2.8X	RND 3.75 30 ePc				25 20.57 -2.6		NKA 1.33 57 ePc		44 26.64 0.4	
0.7s 5.00nm		4.6mb		SUA 1.67 40 iPc				24 55.32 -0.9		BGL 1.34 24 iPc		44 26.10 -0.5		
IMA	76.17	357 eP	03 44.70	3.6X	SEW 1.78 92 ePd				24 56.13 -1.2		SPU 1.35 31 iPc		44 25.51 -1.1	
0.7s 2.60nm		4.3mb		SKT 1.91 21 iPc				24 57.87 -1.2		CRP 1.40 28 ePc		44 26.44 -0.8		
FBA	77.01	355 eP	03 52.10	6.5X	PMS 1.98 57 iPc				24 58.19 -1.7		NCG 1.52 25 ePc		44 27.63 -0.7	
ANM	77.71	2 eP	03 52.90	3.4X	PWA 2.09 45 iPc				24 59.59 -1.7		SYI 1.55 158 eP		44 26.95 -1.5	
SES	82.01	331 eP	04 21.00	8.2X	PLRM 2.34 52 iPc				25 01.70 -2.7		SLKM 1.70 73 eP		44 28.76 -1.5	
TUL	85.46	313 eP	04 32.70	2.1	PMR 2.34 52 iPc				25 02.10 -2.3		eS 44 51.94			
1.2s 16.30nm		5.1mb		GHO 2.52 50 iPc				25 04.39 -2.5		RDN 0.60 38 iPc		44 19.96 -0.8		
PNT	86.01	335 eP	04 37.00	3.9X	KNM 2.62 85 ePc				25 04.98 -3.1		REF 0.60 42 iPc		44 19.93 -0.9	
LRM	86.26	329 eP	04 38.00	3.3X	MTU 2.68 93 ePc				25 07.10 -1.8		DFR 0.69 36 iPc		44 20.20 -1.0	
S.D. = 1.2 on 173 of 219 obs.				SML 2.77 53 eP				25 07.97 -2.1		eS 44 38.64				
% APR 21, 1991 09h 01m 49.14 ± 0.72s				GLI 2.99 75 eP				25 09.39 -3.5		RDT 0.77 45 iPc		44 20.74 -0.9		
39.669 N ± 6.0km 29.488 E ± 6.6km				TTA 3.08 333 ePd				25 12.90 -1.3		MCNL 0.96 206 ePd		44 22.06 -0.9		
DEPTH = 10.0km (geophysicist)				SCM 3.20 57 ePc				25 13.10 -2.6		HOM 1.02 111 eP		44 22.92 -0.5		
TURKEY (366)				HUR 3.20 29 eP				25 13.80 -1.9		eS 44 41.74				
				HIN 3.24 84 eP				25 13.64 -2.5		NNL 1.11 89 eP		44 24.41 0.1		
				VLZ 3.40 71 ePc				25 15.34 -3.0		CDD 1.12 184 iPd		44 23.30 -1.1		
				MID 3.45 100 ePc				25 16.85 -2.1		CNPM 1.26 113 ePd		44 24.73 -1.0		
				TRF 3.49 20 ePc				25 17.49 -2.2		eS 44 44.74				
				CVA 3.61 82 ePc				25 19.19 -1.9		CKL 1.29 26 iPc		44 25.43 -0.7		
				KLU 3.69 67 iPc				25 19.30 -3.0		NKA 1.33 57 ePc		44 26.64 0.4		
				RND 3.75 30 ePc				25 20.57 -2.6		BGL 1.34 24 iPc		44 26.10 -0.5		

21d 09h

PMS 2.29 56 ePc 44 35.00 -2.0
 eS 45 04.26
 PWA 2.40 46 eP 44 36.32 -2.0
 GH0 2.83 50 ePc 44 40.93 -2.8
 S 45 14.85
 LTI 2.84 88 iPc 44 42.25 -1.5
 CUT 2.84 32 eP 44 41.94 -1.8
 KNIM 2.90 81 iPc 44 42.47 -2.0
 S 45 15.46
 VZW 3.58 70 eP 44 51.80 -1.5
 VLZ 3.70 70 eP 44 52.93 -1.9
 KLU 4.00 65 ePd 44 56.22 -2.5
 GLB 4.96 69 ePc 45 09.70 -1.8
 BALM 5.60 75 ePc 45 18.30 -1.7

37 obs. associated

APR 21, 1991 09h 49m 14.66 ± 0.39s
 45.092 N ± 3.1km 6.968 E ± 4.1km
 DEPTH = 10.0km (geophysicist)

FRANCE (538)

ML 2.3 (GEN).

BNI 0.21 259 Pc 49 19.60 0.3
 eSg 49 22.50
 RSP 0.21 74 P 49 19.47 0.1
 S 49 22.34
 RRL 0.22 217 P 49 19.67 0.2
 S 49 22.54
 LSD 0.39 20 P 49 22.23 -0.5
 S 49 26.95
 LPG 0.43 339 Pg 49 23.50 -0.1
 Sg 49 28.70
 LPL 0.46 339 Pg 49 23.80 -0.2
 Sg 49 29.20
 PZZ 0.60 171 P 49 26.23 -0.6
 S 49 34.33
 DOI 0.62 161 P 49 26.80 -0.4
 eSg 49 34.50
 STV 0.89 163 P 49 31.26 -0.5
 S 49 42.74
 ENR 0.92 159 P 49 31.81 -0.6
 S 49 43.74
 ROB 1.02 141 Pg 49 35.26 1.2
 PCP 1.25 116 Pg 49 38.43 0.5
 BGF 3.23 298 Pn 50 06.90 0.5

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

APR 21, 1991 09h 57m 25.04 ± 0.69s
 30.262 S ± 5.7km 69.193 W ± 10.9km
 DEPTH = 39.5 ± 12.8 km
 3.8mb (1 obs.)

CHILE-ARGENTINA BORDER REGION (127)

ZON 1.35 161 iPd 57 48.20 0.3
 MDZ 2.63 174 iP 58 07.70 1.6
 iS 58 24.90
 JACH 2.69 206 iPd 58 08.50 1.5
 i 58 39.50
 ROCH 3.12 209 iP 58 13.00 -0.1
 i 58 51.50
 iS 58 55.00
 PEL 3.14 203 iPd 58 13.50 0.2
 iS 58 53.00
 SAN 3.42 201 ePd 58 17.50 0.2
 i 58 57.00
 IHA 3.46 217 eP 58 17.00 -0.7
 iS 59 08.10
 PCH 3.53 198 iPd 58 19.20 0.3
 iS 59 04.40
 TACH 3.69 203 iPc 58 20.20 -0.9
 iS 59 07.50
 iS 59 15.00
 LCCH 3.79 212 iP 58 21.70 -0.8
 iS 59 07.00
 LNV 4.14 206 iP 58 25.60 -1.8
 i 59 06.50
 i 59 22.50
 SLA 6.42 32 e(P) 59 01.00 1.3
 ANT 6.62 350 e(P) 59 01.50 -0.9
 LPB 13.70 4 eP 00 40.00 0.6
 ARE 13.90 351 eP 00 43.00 1.1
 ZOBO 13.96 4 P 00 42.00 -1.0

Z 22s 0.17um

SIV 16.04 29 P 01 08.00 -1.4
 PPD 18.01 67 eP 01 38.40 4.3X
 e 01 46.90

VAO 21.12 75 eP 02 08.00 -0.8
 e 02 15.50
 ACX 55.39 324 (P) 06 38.00 -19.7X
 KIC 71.60 71 (P) 08 43.20 -1.5
 LKO 72.74 68 P 08 59.04 7.6X
 GLA 76.35 322 eP 08 59.00 -12.9X
 BAR 77.07 320 eP 09 08.00 -7.9X
 TPC 77.81 322 eP 09 14.00 -6.0X
 SBB 79.21 321 eP 09 28.00 0.3
 ISA 80.29 321 eP 09 39.00 5.6X
 YKA 99.33 340 eP 11 05.90 2.3
 0.6s 0.20nm 3.8mb
 S.D. = 1.2 on 21 of 28 obs.

APR 21, 1991 10h 04m 08.66 ± 1.64s
 16.645 N ± 13.3km 98.870 W ± 7.5km
 DEPTH = 47.9 ± 9.4 km
 4.7mb (22 obs.) 4.2Msz (2 obs.)
 NEAR COAST OF GUERRERO, MEXICO (58)
 Felt at Acapulco.

III 1.81 342 eP 04 37.33 -0.8
 iS 04 55.00
 OXX 2.10 78 iP 04 42.62 0.4
 iS 05 17.20
 IIT 2.42 13 iP 04 46.46 -0.4
 iS 05 22.00
 PUE 2.47 15 (P) 04 51.00 3.5X
 (S) 05 24.00
 IIA 2.50 5 iP 04 47.71 0.1
 UNM 2.69 354 (P) 04 51.20 0.5
 (S) 05 32.80
 IISM 2.73 31 iP 04 51.04 0.0
 (S) 05 31.00
 MRX 3.76 324 (P) 05 04.87 -0.7
 (S) 05 46.78
 CGX 5.32 306 (P) 05 36.70 8.9X
 SCX 5.98 88 (P) 06 03.00 26.1X
 TUL 19.38 8 iPc 08 30.00 -3.5X
 1.0s 35.60nm 4.6mb
 Z 18s 0.32um 4.7MszX

ANMO 19.45 341 P 08 33.30 -1.2
 1.2s 11.72nm 4.0mb
 RSCP 22.29 30 eP 09 04.60 1.3
 FVM 22.52 18 P 09 06.00 0.5
 PLM 23.23 319 eP 09 15.00 2.3
 PV09 23.56 340 P 09 16.10 0.1
 GOL 23.66 347 P 09 17.80 0.9
 0.8s 7.44nm 4.2mb
 GLD 23.68 348 P 09 19.00 2.0
 1.0s 14.00nm 4.4mb
 PEC 23.78 320 P 09 19.00 1.2
 BLA 26.18 35 P 09 40.90 0.3
 0.7s 15.00nm 4.7mb
 TNP 26.76 327 P 09 46.30 0.2
 0.9s 5.86nm 4.2mb
 BW06 27.60 343 P 09 53.00 -0.7
 1.3s 32.79nm 4.8mb
 RSSD 27.74 352 P 09 54.70 -0.2
 1.2s 12.76nm 4.4mb
 LRM 31.23 342 eP 10 26.70 0.6
 e 10 33.90
 NEW 34.90 339 P 11 04.50 6.8X
 1.1s 11.11nm 4.7mb
 SES 35.07 346 eP 11 06.00 6.9X
 PNT 36.69 337 eP 11 12.00 -0.7
 0.9s 10.00nm 4.7mb
 FFC 38.08 357 ePc 11 23.70 -0.6
 1.1s 28.00nm 5.1mb
 SCH 45.39 26 eP 12 24.00 -0.2
 YKA 47.11 350 eP 12 35.80 -1.8
 1.1s 5.70nm 4.4mb
 FRB 51.47 17 eP 13 11.00 0.0
 INK 56.12 345 eP 13 44.00 -1.2
 FBA 58.25 338 P 14 00.00 -0.4
 1.0s 8.50nm 4.8mb
 LFF 85.02 45 eP 16 40.50 0.1
 1.1s 14.65nm 5.0mb
 EPF 85.35 47 eP 16 43.60 1.4
 1.1s 9.75nm 4.9mb
 RJF 85.43 44 eP 16 42.10 -0.4
 1.1s 14.65nm 5.1mb
 Z 22s 0.10um 4.2Msz
 TCF 85.56 43 eP 16 42.90 -0.3
 1.0s 8.00nm 4.9mb

MAF 85.82 43 eP 16 44.10 -0.3
 0.8s 4.05nm 4.7mb
 BGF 85.89 43 eP 16 44.20 -0.6
 0.8s 4.05nm 4.7mb
 AVF 86.14 42 eP 16 46.20 0.2
 SSF 86.14 42 eP 16 45.30 -0.7
 1.0s 4.00nm 4.6mb
 LOR 86.30 42 eP 16 46.30 -0.5
 1.1s 9.75nm 4.9mb
 Z 22s 0.10um 4.2Msz
 LBF 86.47 42 eP 16 47.00 -0.7
 1.0s 6.00nm 4.8mb
 WRA 129.54 258 PKP 23 15.00 0.3
 1.2s 1.70nm
 HYB 146.06 4 ePKPd 23 45.00 0.0
 GBA 149.72 7 PKPd 23 55.60 4.9X
 0.2s 1.80nm
 S.D. = 0.9 on 39 of 46 obs.

& APR 21, 1991 10h 27m 21.05s
 58.443 N 154.228 W

DEPTH = 85.9km
 ALASKA PENINSULA (12)
 <AEIC>

CDD 0.58 32 iP 27 35.51 -0.8
 eS 27 47.05
 MCNL 0.75 356 iP 27 37.12 -0.8
 eS 27 49.53
 SYI 0.98 79 eP 27 39.70 -0.7
 eS 27 54.05
 AUI 0.99 25 eP 27 39.69 -0.9
 eS 27 54.71
 AUH 1.01 23 eP 27 40.34 -0.6
 AUE 1.02 25 eP 27 40.50 -0.4
 PDB 1.35 1 iP 27 43.95 -1.1
 eS 28 01.45
 HOM 1.81 47 eP 27 50.21 -0.8
 eS 28 12.67
 CNPM 1.89 54 eP 27 50.76 -1.5
 eS 28 13.26
 RED 2.12 20 eP 27 54.05 -1.3
 RS2 2.16 20 eP 27 54.86 -1.2
 RSO 2.16 20 eP 27 54.78 -1.3
 RDW 2.17 19 eP 27 54.87 -1.3
 REF 2.20 20 eP 27 55.16 -1.3
 NNL 2.20 42 eP 27 55.59 -0.8
 RDN 2.21 19 eP 27 55.45 -1.2
 NCT 2.23 17 eP 27 55.60 -1.2
 DFR 2.29 19 iP 27 56.47 -1.3
 RDT 2.33 23 eP 27 56.51 -1.7
 NKA 2.76 32 eP 28 03.91 -0.1
 SLKM 2.91 43 eP 28 03.92 -2.2
 CKL 2.92 18 eP 28 04.80 -1.6
 SPU 2.96 21 eP 28 04.94 -1.9
 SEW 2.96 54 eP 28 03.66 -3.1
 BGL 2.98 17 eP 28 05.94 -1.2
 CRP 3.02 19 eP 28 06.21 -1.6
 NCG 3.15 18 eP 28 07.91 -1.6
 SUA 3.50 29 eP 28 12.61 -1.8
 LTI 3.64 61 eP 28 13.58 -2.7
 PMS 3.67 38 eP 28 14.24 -2.3
 MTU 3.72 63 eP 28 14.63 -2.6
 SKT 3.80 20 eP 28 16.14 -2.2
 KNIM 3.83 57 eP 28 15.71 -3.1
 PWA 3.89 32 eP 28 17.29 -2.3
 PLRM 4.06 37 eP 28 18.83 -3.2
 KNK 4.16 42 eP 28 20.34 -3.1
 GH0 4.27 36 eP 28 21.70 -3.3
 GLI 4.37 53 eP 28 22.04 -4.3
 CUT 4.43 25 eP 28 24.65 -2.6
 VZW 4.68 53 eP 28 27.34 -3.4
 VLZ 4.81 53 eP 28 28.88 -3.6
 KLU 5.17 50 eP 28 34.17 -3.4
 GLB 6.04 56 eP 28 46.18 -3.4

43 obs. associated

* APR 21, 1991 10h 57m 42.32 ± 1.79s
 37.036 N ± 5.8km 13.833 W ± 16.3km
 DEPTH = 33.0km (normal)
 NORTH ATLANTIC OCEAN (402)
 mbLg 3.4 (MDD).

LIS 4.07 64 iPd 58 44.90 1.1
 iS 59 25.80
 EVAL 5.67 82 eP 59 07.50 1.0
 eS 00 02.80

AVE	6.44	123	iPn	59 17.20	-0.2			e	25 04.90		PP	26 06.00			
			iSn	00 23.00				e	27 16.90		ScP	31 09.50			
EZAM	6.47	36	eP	59 18.00	0.3			i	33 33.90		S	32 02.00			
			eS	00 23.00		KNA	18.58 231	iPc	21 57.50	-0.8	SS	35 15.00			
EPLA	6.79	61	eP	59 22.50	0.3			eS	25 17.00		IPM	43.62 281	ePc	25 43.30	0.8
			eS	00 29.50		KUPT	20.80 253	ePc	22 19.30	-2.0	WHN	44.69 323	Pc	25 53.00	2.3
EHOR	6.88	81	eP	59 23.40	0.0	ASPA	21.41 206	iPd	22 27.10	-0.3		1.0s	100.00nm		5.6mb
			eS	00 32.30			0.6s	235.00nm		5.7mb		S	32 25.00		
STS	7.11	33	eP	59 26.40	-0.3	Z	17s	3.00um		4.7MszX	AOMJ	44.83 356	eP	26 11.40	19.7X
			eS	00 38.00				iS	26 15.70		NGZ	45.07 145	P	25 56.00	2.1
ERUA	7.43	42	eP	59 31.20	0.1	DAV	21.44 302	eP	22 33.50	5.8X		e	26 21.40		
			eS	00 46.00		QLP	22.08 179	eP	22 35.00	1.0		e	26 33.10		
IFR	7.94	114	iPn	59 38.00	-0.5	RMQ	22.50 168	iPd	22 38.80	0.8	MSZ	45.38 156	eP	25 58.20	2.2
			iSn	00 57.00			0.8s	333.00nm		5.7mb	THZ	45.42 149	P	25 57.10	0.7
EMON	8.10	36	eP	59 40.50	0.0			i	22 46.80		TCW	45.74 148	P	25 59.30	0.4
TIO	8.18	136	iPn	59 42.00	0.2			e	26 30.00		LTZ	45.85 151	P	26 00.10	0.2
			iSn	01 06.00		BRS	24.44 160	iPc	22 57.00	0.1	PUZ	45.95 142	P	26 01.30	0.6
TOL	8.18	67	ePn	59 41.00	-0.8			i(pP)	23 38.00	213kmX		e	26 27.10		
			eSn	01 06.50				e	26 35.00		MNG	45.98 146	P	26 01.20	0.3
ECOG	8.20	85	eP	59 42.80	0.7			e(S)	27 30.00			0.6s	73.00nm		5.7mb
AFC	8.22	85	eP	59 42.40	0.0			i(ScP)	30 05.00		MRW	45.98 147	P	26 00.70	-0.1
			eS	01 06.00		CMS	27.03 176	iPc	23 21.00	0.3	WEL	46.05 147	P	26 02.00	0.6
GUD	8.37	62	eP	59 43.90	-0.5		0.9s	67.00nm		5.2mb		1.0s	*****nm		8.0mb X
			eS	01 09.00				i	23 35.00		CAW	46.09 147	P	26 01.60	-0.1
EVIA	9.11	76	eP	59 53.80	-0.8			i	30 14.00		WDW	46.16 147	P	26 02.00	-0.2
			eS	01 25.50		TSM	27.06 288	eP	23 34.00	12.8X	KHZ	46.22 149	P	26 02.40	-0.2
ETOR	9.92	64	eP	00 05.10	-0.7	COO	27.16 165	iPc	23 22.40	0.4	MTW	46.36 147	P	26 03.50	-0.3
			eS	01 45.50			1.0s	93.00nm		5.3mb	PGZ	46.42 146	eP	26 03.60	-0.7
EPF	12.40	57	Pn	00 39.80	0.5			e	30 12.60		BLW	46.49 147	P	26 04.70	-0.2
			Sn	02 46.80		WARB	27.19 215	eP	23 22.00	-0.2	HOOJ	46.54 360	P	26 05.60	0.4
LFF	13.53	50	Pn	00 54.80	0.5		0.4s	71.00nm		5.6mb	LOE	46.81 299	eP	26 04.50	-3.2X
LPO	13.68	51	Pn	00 55.20	-1.1	STK	27.43 184	iPc	23 44.40	20.1X	GYA	47.22 313	P	26 12.60	1.6
RJF	14.19	50	Pn	01 02.20	-0.7		0.7s	45.40nm				PP	26 38.00		
CAF	14.35	52	Pn	01 03.90	-1.1			i	30 35.20			S	33 00.00		
TCF	15.12	47	Pn	01 14.70	-0.3			e	32 55.70		KUSJ	47.26	1 P	26 10.40	-0.5
MAF	15.29	48	Pn	01 16.90	-0.4	DZM	28.14 131	iPc	23 28.80	-2.1	TIA	47.46 331	Pc	26 12.40	-0.2
BGF	15.63	47	Pn	01 22.40	0.7	MBL	28.62 232	iPd	23 34.90	-0.2		0.8s	100.00nm		5.7mb
AVF	16.05	47	Pn	01 27.40	0.4		0.6s	107.00nm		5.7mb		PP	26 37.50		
SSF	16.28	47	Pn	01 31.00	1.0	FORR	30.19 208	iPd	23 48.00	-1.0		S	33 00.00		
LOR	16.60	46	Pn	01 34.40	0.4		0.3s	111.00nm		6.1mb	NST	47.57 296	eP	26 19.50	5.8X
	S.D. = 0.7	on	28 of 28 obs.			ADE	30.79 188	eP	23 55.00	0.7	DL2	47.69 337	Pc	26 15.00	0.7
							1.3s	523.08nm		6.1mb		PP	26 40.50		
APR 21, 1991 11h 17m 46.26 ± 0.67s						BAG	30.87 313	eP	23 54.50	-0.8		S	33 04.00		
4.380 S ± 2.4km 143.774 E ± 3.3km						CNB	31.21 171	iPc	23 59.00	0.9	ASAJ	48.29 359	eP	26 19.00	0.2
DEPTH = 102.6 ± 6.2 km						BFD	32.66 182	iPd	24 10.90	0.4	SNY	49.53 340	iPc	26 28.20	-0.2
5.6mb (39 obs.)							0.6s	99.00nm		5.8mb		0.8s	100.00nm		5.8mb
PAPUA NEW GUINEA (202)						MEKA	32.73 225	iPc	24 11.70	0.4		PP	26 55.30		
CENTROID, MOMENT TENSOR (HRV)						TOO	33.07 178	eP	24 15.00	0.8		S	33 29.00		
Data Used: GDSN							0.2s	77.00nm		6.2mb		SS	34 12.50		
L.P.B.: 20S, 41C						KLB	36.46 219	iPd	24 42.90	-0.2	CHG	49.80 299	eP	26 31.50	0.6
Centroid Location:							0.6s	73.00nm		5.8mb		0.8s	9.89nm		4.9mb
Origin Time 11:17:51.7 0.3						BAL	36.49 221	iPd	24 53.50	10.2X	MDJ	50.41 347	eP	26 34.50	-0.6
Lat 4.53S 0.04 Lon 143.59E 0.03							0.5s	70.00nm				0.7s	40.00nm		5.5mb
Dep 100.2 2.8 Half-duration 2.0						NWAO	37.70 218	eP	24 54.00	0.6	XAN	50.42 322	Pc	26 35.30	-0.1
Moment Tensor: Scale 10**17 Nm						Z	20s	1.00um		4.6Msz		S	33 41.00		
Mrr= 0.62 0.05 Mtt=-0.62 0.08						MUN	37.70 220	eP	24 53.30	-0.2	CN2	50.72 343	Pc	26 36.00	-1.5
Mff= 0.00 0.09 Mrt= 1.62 0.05						OZH	38.06 321	iPc	24 57.50	1.0		5.0s	300.00nm		5.6mb X
Mrf=-0.73 0.05 Mtf= 0.11 0.06							0.8s	100.00nm		5.8mb		PP	27 02.00		
Principal Axes:								SP	25 25.00			SP	27 15.00		
T Vol= 1.90 Plg=54 Azm= 29								S	30 42.00			ePP	28 36.00		
N -0.02 5 293						TAU	38.50 176	iPc	25 01.80	1.8		eS	33 43.00		
P -1.88 35 199						WKYJ	39.16 349	eP	25 05.10	-0.6		eSS	34 30.00		
Best Double Couple:Mo=1.9*10**17						TKSJ	39.25 347	eP	25 05.20	-1.1	BJI	50.96 333	eP	26 39.00	-0.3
NPl:Strike=267 Dip=11 Slip= 64						HKC	39.26 314	eP	25 08.60	2.0		0.9s	56.00nm		5.6mb
NP2: 113 80 95						IIDJ	40.03 353	P	25 12.10	-0.7	Z	20s	0.30um		4.3Msz
						SHNJ	40.12 344	eP	25 14.10	0.6		ePP	27 05.00		
MNDI 1.77 184 iP 18 10.50 -6.1X						GZH	40.35 314	P	25 17.50	2.0		eS	33 48.00		
PMG 6.02 146 iPc 19 12.00 -2.4								eS	31 12.00		TIY	51.01 328	iPd	26 40.00	0.2
RAB 8.37 89 eP 19 48.00 1.4						TSRJ	40.37 350	P	25 15.10	-0.4	Z	20s	0.63um		4.6Msz
						CHJJ	40.46 354	eP	25 15.40	-0.9	N	14s	0.26um		
MTN 15.06 235 iPd 21 18.20 3.3X						YONJ	40.53 347	P	25 17.20	0.3		PP	27 06.00		
						OIZ	40.70 306	eP	25 20.70	2.2		SP	27 18.00		
						MAT	41.04 353	iPc	25 19.40	-1.6		S	33 52.00		
CTA 15.80 171 iPc 21 25.00 0.8							0.9s	21.01nm		5.0mb	CD2	51.86 315	P	26 46.40	0.0
								eS	31 21.00			0.7s	100.00nm		5.9mb
						MTMJ	41.13 353	eP	25 20.40	-1.5		PP	27 12.40		
VSG 16.55 108 eP 21 32.00 -1.6						SSE	41.34 330	Pc	25 24.00	0.5		S	34 02.00		
OIS 16.58 194 eP 21 32.00 -2.0							0.9s	180.00nm		5.9mb	HHC	53.80 330	P	27 00.00	-0.6
							Z	20s	0.50um	4.4Msz		1.0s	100.00nm		5.8mb
SVO 16.62 107 P 21 35.00 0.6							N	14s	0.40um			PP	27 27.00		
HNR 16.82 108 eP 21 37.00 0.1								PP	25 49.00			S	34 28.00		
GUA 17.84 4 eP 21 50.80 1.4								S	31 32.00		BTO	54.40 329	P	27 05.00	0.0
												PP	27 31.00		
						NIJ	41.64 354	P	25 25.70	-0.2		S	34 37.00		
PJG 17.88 3 eP 21 50.70 0.7						YAMJ	42.48 356	P	25 33.00	0.2		PP	27 09.50	0.6	
WB2 17.99 210 iPc 21 49.20 -2.1						OFUJ	43.29 358	eP	25 39.30	0.0	LZH	54.91 321	Pc	27 09.50	0.6
						NJ2	43.29 329	Pc	25 41.00	1.5		1.2s	65.00nm		5.5mb
							1.0s	100.00nm		5.6mb		PP	27 35.00		

							KHC	118.68	325 ePKP	36 23.50 -0.4	ESCF	0.19	256 Pg	29 49.01 -0.1
							MOX	118.99	327 ePKP	36 25.00 0.6			Sg	29 51.44
							GRF	119.71	327 ePKP	36 26.50 0.7	ATE	0.28	262 Pg	29 50.74 0.0
							Z	19s	0.10um	4.5msz			Sg	29 54.58
GTA	59.46	321 P	27 41.00 0.1				ABH	121.58	328 ePKP	36 28.94 -0.5	LHE	0.30	226 Pg	29 50.92 -0.3
	1.0s	20.00nm	5.2mb				MEM	121.93	330 PKP	36 29.70 -0.2			Sg	29 54.45
	Z	18s	0.20um	4.3msz			CDF	122.58	327 ePKP	36 30.20 -1.2	ISSF	0.36	254 Pg	29 52.30 0.0
								0.9s	6.55nm				Sg	29 57.26
							EKA	122.67	338 PKP	36 31.00 -0.2	MADF	0.36	273 Pg	29 52.58 0.2
								0.9s	6.90nm				Sg	29 58.52
							SNF	122.85	330 PKP	36 31.60 -0.1	ELYF	0.49	275 Pg	29 54.95 0.1
							DOU	122.96	330 PKP	36 32.00 0.0			Sg	30 02.31
							BSF	123.18	327 ePKP	36 31.80 -0.9	EPF	0.50	101 Pg	29 55.40 0.5
LSA	60.71	308 eP	27 48.50 -1.4					0.9s	14.75nm				Sg	30 04.20
							HAU	123.32	327 ePKP	36 32.20 -0.6	BOH	0.50	268 Pg	29 55.12 0.0
								0.8s	10.75nm				Sg	30 01.90
SMY	62.41	20 eP	28 01.10 0.8				SCH	123.98	21 ePKP	36 34.00 0.1	LPO	1.90	35 Pg	30 22.50 4.9x
GUN	64.30	304 P	28 13.80 0.1				LPL	124.54	324 ePKP	36 35.00 -0.5			Sg	30 48.70
PKI	64.57	303 P	28 15.30 -0.1				LOR	125.11	328 ePKP	36 35.60 -0.7	LFF	1.97	23 Pg	30 23.80 5.2x
KKN	64.76	303 P	28 16.50 0.0					1.2s	8.95nm				Sg	30 50.90
DMN	64.84	303 P	28 17.30 0.2				Z	22s	0.08um	4.3msz			Pg	30 33.50 7.4x
ADK	65.35	26 eP	28 20.00 0.5				LBF	125.22	327 ePKP	36 35.80 -0.8	CAF	2.49	43 Pg	31 06.60
GKN	65.36	303 P	28 20.20 -0.1					0.9s	8.20nm		RJF	2.55	31 Pn	30 27.20 0.3
IRK	65.59	335 eP	28 21.50 0.4				SSF	125.42	328 ePKP	36 36.40 -0.5			Pg	30 33.90
		e	28 49.00					0.8s	9.40nm				Sg	31 07.80
KOD	67.60	283 eP	28 36.20 1.3				SMF	125.50	327 ePKP	36 36.50 -0.6	LSF	3.39	22 Pn	30 37.70 -1.2
HYB	67.89	291 eP	28 35.00 -1.3					0.9s	9.85nm				Pg	30 50.00
GBA	68.20	286 Pc	28 37.70 -0.5				AVF	125.67	327 ePKP	36 36.50 -0.9			Sg	31 33.20
	0.9s	13.90nm	4.9mb					0.9s	4.90nm		MFF	3.48	2 Pg	30 51.40 11.3x
WMO	69.49	320 P	28 46.00 0.3				BGF	126.09	327 ePKP	36 37.70 -0.6			Sg	31 35.30
	1.0s	100.00nm	5.6mb					0.9s	13.10nm		TCF	3.64	29 Pg	30 54.30 11.8x
							LDF	126.27	331 ePKP	36 38.60 0.1			Sg	31 42.10
								0.9s	9.85nm		MAF	3.72	33 Pn	30 44.20 0.6
POO	72.50	291 eP	29 01.00 -3.2x				FLN	126.33	331 ePKP	36 38.00 -0.6			Pg	30 57.20
SBA	74.42	175 iP	29 16.00 1.7					0.9s	13.10nm		BGF	4.11	32 Pn	31 48.60 -0.4
SDN	75.02	29 eP	29 18.00 0.0				MAF	126.45	327 ePKP	36 38.60 -0.4			Pg	31 03.00
	0.7s	171.60nm	6.0mb				TCF	126.60	328 ePKP	36 38.90 -0.4			Sg	31 56.40
ANM	78.26	20 ePc	29 36.70 0.7					0.9s	12.30nm				Sg	31 56.40
SVW	80.13	25 eP	29 47.30 1.1				GRR	126.77	331 ePKP	36 38.90 -0.5				
TTA	80.84	24 eP	29 50.30 0.3					0.9s	13.10nm					
QUE	80.86	301 eP	29 51.20 0.3				LSF	126.99	328 ePKP	36 39.40 -0.6				
		e	30 18.40					0.8s	6.05nm					
RSO	81.10	27 P	29 51.10 -0.4				LPF	127.10	331 ePKP	36 39.60 -0.5				
SLKM	82.26	27 P	29 56.20 -1.1					0.8s	16.10nm					
PMR	83.17	26 ePc	30 01.30 -0.6				RJF	127.60	327 ePKP	36 41.00 -0.2				
	0.9s	42.40nm	5.4mb				MFF	127.63	329 ePKP	36 41.60 0.4				
IMA	83.21	21 ePc	30 02.60 0.3					0.9s	4.90nm					
	1.2s	36.30nm	5.2mb				LPO	128.18	327 ePKP	36 42.10 -0.2				
TOA	84.66	26 eP	30 10.00 0.5					0.9s	9.85nm					
BRW	84.75	16 eP	30 10.10 0.4				LFF	128.26	327 ePKP	36 42.50 0.1				
FBA	84.97	23 ePc	30 09.50 -1.4				LNV	129.44	142 ePKP	36 45.50 0.5				
	1.1s	58.60nm	5.4mb				PEL	130.43	141 ePKPd	36 47.00 0.0				
SPA	85.65	180 iPc	30 24.10 9.6x				LPB	142.26	124 PKP	37 05.00 -4.9x				
	0.9s	55.45nm	5.5mb				ZOBO	142.37	124 PKP	37 05.20 -5.1x				
		i	30 39.90				CCH	143.39	127 PKP	37 09.40 -2.2x				
BALM	86.07	28 P	30 15.80 -0.8					i	37 39.90					
INK	91.34	22 eP	30 40.00 -1.2				SIV	148.16	130 PKP	37 18.80 -0.4				
		pP	31 09.00 110kmX				KIC	148.59	275 PKPc	37 23.80 3.8x				
WDC	95.62	50 eP	31 02.50 1.0				TIC	148.86	276 PKPc	37 24.48 4.1x				
BRK	95.79	53 eP	31 02.30 0.0					0.7s	63.00nm					
BKS	95.81	53 eP	31 02.40 -0.1				LIC	148.88	275 PKPc	37 24.60 4.2x				
	0.8s	31.00nm	5.9mb				LKO	149.17	281 PKP	37 21.20 0.3				
GCC	95.99	53 eP	31 03.80 0.6				PPD	149.88	151 ePKP	37 21.90 0.2				
MHC	96.28	53 eP	31 05.30 0.6					e	37 26.70					
MIN	96.33	50 eP	31 04.20 -0.8					e	37 33.50					
PRS	96.48	54 eP	31 05.80 0.3					e	37 56.70					
PR1	97.05	54 eP	31 04.80 -3.4x				VAO	150.83	159 ePKP	37 24.40 1.2				
CMB	97.28	52 eP	31 08.70 -0.4					e	37 29.70					
PNT	97.61	41 eP	31 10.00 -0.3					e	37 51.80					
FRI	97.82	53 eP	31 11.50 0.0					e	37 57.80					
YKA	99.23	27 eP	31 16.00 -1.3				BMA	152.00	164 ePKP	37 32.20 7.3x				
	0.8s	2.40nm	4.9mb					e	37 42.00					
NEW	99.32	42 P	31 18.70 0.6				PDCR	162.95	170 ePKP	37 38.80 0.7				
	0.9s	10.09nm	5.4mb					e	38 08.60					
SES	103.03	39 ePd iff	31 34.00 -0.7											
BW06	105.18	47 Pd iff	31 44.30 -0.4											
BUL	111.86	246 iPKPd	36 11.90 0.0											
HFS	112.77	335 ePKP	36 10.50 -1.7											
	0.5s	0.80nm												
FRB	116.28	15 ePKP	36 18.00 -0.8											
KSP	116.32	326 ePKP	36 19.40 0.1											
		e	36 50.50											
BRG	117.60	327 iPKP	36 22.00 0.2											
		i	36 51.00											
PRU	117.71	326 ePKP	36 22.00 0.0											
CLL	117.89	327 iPKPc	36 22.30 0.0											
	1.1s	16.00nm												
					</									

• APR 21, 1991 16h 06m 13.77 \pm 2.61s
6.946 S \pm 17.3km 129.592 E \pm 14.1km
DEPTH = 116.8 \pm 25.5 km
4.3mb (1 obs.)

BANDA	SEA				(280)
MTN	6.06	166	eP	07 43.10	0.8
			eS	08 44.00	
KUPT	6.72	241	eP	07 51.40	0.0
			eS	09 01.00	
KNA	8.79	185	iPc	08 18.40	-1.1
			eS	09 49.00	
WB2	13.72	161	iPd	09 21.50	-3.2X
	0.5s	19.90nm			4.7mb X
			eS	11 42.80	
QIS	16.65	145	eP	10 02.00	0.4
			eS	12 51.00	
MBL	16.99	213	eP	10 06.50	0.7
			eS	13 01.00	
ASPA	17.13	166	eP	10 06.50	-1.0
	0.5s	10.00nm			4.3mb
			eS	13 07.90	
WARB	19.34	188	eP	10 33.00	0.4
GUN	54.61	311	P	15 32.80	-0.3
GKN	55.59	311	P	15 40.00	0.1
ZOBO	151.03	143	PKP	25 47.00	-3.0X
S.D. = 0.9 on 9 of 11 obs.					

RTBS	0.25	210	iPd	25	19.10	-0.1
ZON	0.55	101	iPd	24	20.20	-60.3X
RTLL	0.72	81	iPc	25	20.90	-0.9
CFA	0.93	100	iPd	25	23.00	-0.6
			eS	25	38.20	
RTRS	1.28	354	iPc	25	27.80	0.8
			S	25	46.30	
MDZ	1.49	165	iP	25	30.60	1.1
			iS	25	47.40	
JACH	1.65	221	iPd	25	32.50	1.0
			iS	25	55.50	
PEL	2.06	214	iPd	25	37.00	0.5
			iS	26	04.00	
ROCH	2.10	223	iP	25	37.20	0.0
			iS	26	04.20	
SAN	2.31	209	iPd	25	40.30	0.7
			iS	26	09.40	
PCH	2.40	205	iPd	25	41.50	0.6
			iS	26	13.50	
IHA	2.53	231	eP	25	41.50	-1.0
			iS	26	10.50	
LCCH	2.79	223	iPd	25	45.00	-0.8
			iS	26	19.00	
LNV	3.07	215	iPc	25	48.10	-1.5
			iS	26	24.50	
CCH	14.29	12	(P)	28	24.00	4.3X
LPB	14.88	5	eP	28	27.00	-0.4
ZOBO	15.14	4	P	28	31.00	0.2
SIV	17.12	28	(P)	28	55.00	0.3

S.D. = 0.9 on 16 of 18 obs.

SOUTHWESTERN RYUKYU ISLANDS						(246)
TWC	1.80	261	iPc	28	39.10	0.3
			eS	29	00.80	
TWZ	2.03	276	ePc	28	42.60	0.9
TWD	2.18	248	iPc	28	43.00	-0.6
			eS	29	08.20	
TWF1	2.77	236	iPc	28	50.60	-0.8
TWQ	2.78	257	iPc	28	51.90	0.4
			eS	29	24.10	
TWK	3.45	242	ePc	29	00.30	-0.3
ASPA	49.28	168	iPc	36	47.30	0.6
	0.3s		7.80nm			5.1mb
WARB	50.87	177	eP	36	59.00	0.3
YKA	81.36	24	eP	40	11.60	-0.7
	0.6s		0.30nm			3.3mb
S. D. = 0.8 on 9 of 9 obs.						

FRO	0.39	95	iPc	49	16.08	0.0
			eS	49	21.08	
FOO	0.51	112	iP	49	18.30	0.0
			eS	49	24.86	
SUE	0.81	155	eP	49	24.15	0.4X
			eS	49	35.78	
HYA	1.20	121	eP	49	27.22	-3.1X
			eS	49	42.35	
ASK	1.42	157	iP	49	34.43	0.6
			eSg	49	53.39	
EGD	1.63	159	eP	49	36.24	-0.5
			eSg	49	59.77	
MOL	1.81	63	eP	49	34.97	-4.5X
			eSg	49	56.31	
KMY	2.65	167	eP	49	50.56	-1.0X
			eSg	50	31.46	
S.D. = 0.8 on 4 of 8 obs.						

NNA	5.99	178	iP	12	31.00	-1.0
	0.7s	27.40nm	eS	13	38.50	5.0mb X
PT10	6.08	180	eP	12	33.50	0.3
			iS	13	39.50	
ARE	11.76	153	e(P)	14	09.00	17.0X
ZOBO	13.45	140	P	14	13.00	-1.8
Z	20s	2.22um	LR	19	28.00	
LPB	13.66	141	P	14	18.00	0.5
Z	18s	3.44um	i	14	28.00	
			LR	20	12.00	
CCH	15.55	138	P	14	48.10	6.0X
SIV	18.54	124	P	15	17.80	-1.6
PEL	27.68	169	iPd	16	50.50	0.1
LNV	28.34	170	eP	16	55.00	-1.2
PDCR	37.93	103	eP	18	32.00	12.3X
RSCP	42.11	350	P	18	54.20	0.2
TUL	45.23	338	eP	19	18.20	-1.0
	1.8s	54.00nm				5.2mb
Z	22s	0.10um	LR	33	28.10	3.7msz
FVM	45.46	345	eP	19	20.00	-1.0
	1.2s	16.18nm				4.8mb
ALO	49.24	328	eP	19	51.00	0.1
	1.3s	17.31nm				4.9mb
ANMO	49.25	328	P	19	51.40	0.5
	1.0s	11.25nm				4.9mb
GOL	52.43	332	P	20	13.00	-2.2
TPC	54.30	320	eP	20	29.00	0.2
RSSD	55.48	337	P	20	38.00	0.5

DAG	88.84 0.8 s	11 iPc 9.70nm	23 55.80 30 31.00	1.0 5.2mb
WRA	139.83 0.9 s	229 PKP 2.90nm	30 31.00 30 43.50	0.3
BTO	144.94	351 ePKP	30 38.00	-1.1
GTA	146.57	4 ePKP	30 43.40	1.5
KNA	146.58 0.8 s	229 ePKP 27.00nm	30 43.50	1.2
NDI	146.75	44 ePKP	30 46.00	3.7X
TIY	147.24	346 ePKP	30 45.00	2.0
SSE	149.72	328 PKP	30 51.50	4.6X
LZH	150.00	359 ePKP pPKP	30 53.00 31 02.50	5.5X
XAN	151.52	350 PKP sPKP	30 56.00 31 06.50	6.4X
S.D. = 1.1 on 40 of 48 obs.				

DST	0.70	46	iPg	28	55.10	-0.4
IZM	0.91	218	iPg	28	59.20	0.1
			iSg	29	12.70	
KCT	1.16	15	ePn	29	04.10	0.7
KGT	1.42	339	ePn	29	07.00	-0.5
IZI	1.68	43	ePn	29	14.00	2.8X
S.D.	= 1.0	on	4 of	5 obs.		

ELL	0.39	119	iPg	10	25.90	-0.1
			iSg	10	34.40	
YER	0.98	282	iPn	10	36.80	0.1
BCK	1.02	59	iPn	10	37.70	0.3
KHL	1.38	1	ePn	10	43.00	-0.3
S. D. = 0.5 on 4 of 4 obs.						

MD 3.8 (ISK).					
ELL	0.45	117	iPg	12 41.90	-0.1
			iSg	12 46.90	
YER	0.92	282	iPg	12 50.80	0.3
			iSg	13 04.80	
BCK	1.07	61	iPn	12 52.20	-0.8
KHL	1.37	4	iPn	12 57.20	-0.8
ALT	2.17	14	ePn	13 11.50	1.9
DST	2.72	347	ePn	13 16.00	-1.4
YLV	3.61	360	ePn	13 37.00	7.0X
EYL	3.65	9	ePn	13 41.00	10.3X
BBTK	3.90	41	eP	13 35.00	0.8
S. D. = 1.4 on 7 of 9 obs.					

STATION	Wavelength (nm)	Flux (10 ⁻¹⁶ W m ⁻² nm ⁻¹)	Flux Density (10 ⁻¹⁶ W m ⁻² nm ⁻¹ Å ⁻¹)	Flux Density (10 ⁻¹⁶ W m ⁻² nm ⁻¹ Å ⁻¹)	Flux Density (10 ⁻¹⁶ W m ⁻² nm ⁻¹ Å ⁻¹)	
MTN	6.25	178	eP	21	36.00	1.3
			eS	22	33.00	
KNA	9.37	193	eP	22	17.00	-1.2
			eS	23	49.00	
WB2	13.72	166	iPc	23	13.60	-3.4 X
	0.2 s	7.20 nm			5.2 mb X	
			eS	25	26.90	
QIS	16.27	150	eP	23	50.00	-0.2
			eS	26	32.00	
ASPA	17.25	171	eP	24	02.20	-0.3
			eS	26	51.60	
MBL	18.04	215	eP	24	12.70	0.4
	S.D. = 1.3	on	5 of	6 obs.		

? APR 21, 1991 20h 44m 56.82± 0.98s
37.100 N ± 9.5km 29.440 E ± 7.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.5 (ISK).

ELL 0.51 133 iPg 45 06.90 -0.4
YER 0.93 273 iPg 45 14.80 0.3
iSg 45 28.00
BCK 0.98 68 iPn 45 16.20 0.6
KHL 1.22 3 iPn 45 19.10 -0.5
S.D. = 0.9 on 4 of 4 obs.

* APR 21, 1991 21h 09m 47.01± 1.15s
35.515 N ±10.2km 21.963 E ± 8.1km
DEPTH = 10.0km (geophysicist)
4.0mb (5 obs.)
MEDITERRANEAN SEA (400)
MD 4.5 (ATH).

VLI 1.44 33 ePn 10 14.00 0.9
ATH 2.83 29 ePn 10 34.00 1.0
VLS 2.88 338 ePn 10 18.70 -15.0X
NPS 2.99 94 ePn 10 35.60 0.2
AGG 3.51 5 eP 10 45.50 2.7X
eS 11 26.22
IGT 4.21 343 eP 10 53.40 0.7
LIT 4.60 5 eP 10 59.30 1.1
PAIG 4.61 17 eP 10 58.60 0.3
THE 5.17 8 eP 11 05.56 -0.7
FNA 5.28 355 eP 11 08.16 0.3
SOH 5.41 11 eP 11 09.80 0.1
GRG 5.44 4 eP 11 09.90 -0.3
OHR 5.66 351 eP 11 13.30 0.0

0.6s 51.00nm 5.4mb X
KNT 5.69 7 eP 11 13.60 0.0
SRS 5.74 12 eP 11 13.70 -0.6
MMB 6.22 12 iPc 11 21.00 -0.1
KKB 6.40 8 iP 11 23.00 -0.7
SKO 6.46 357 iP 11 23.40 -1.1
KDZ 6.70 23 iPc 11 27.00 -0.8
DOU 19.29 324 P 14 15.80 1.2

0.7s 10.00nm 4.2mb
HFS 25.21 350 eP 15 12.20 -1.9
0.4s 1.70nm 4.1mb
Z 16s 0.05um 3.1MszX
LR 25 28.00

EKA 26.28 327 P 15 25.00 1.0
0.5s 2.90nm 4.2mb
NB2 26.45 348 PKP 15 25.80 0.1
0.7s 1.50nm 3.8mb
YKA 76.28 341 eP 21 36.10 -1.1
0.7s 0.20nm 3.3mb
S.D. = 0.9 on 22 of 24 obs.

* APR 21, 1991 21h 23m 39.99± 1.27s
37.741 N ±14.3km 72.137 E ±12.0km
DEPTH = 33.0km (normal)
3.8mb (1 obs.)
TAJIK SSR (715)

QUE 8.68 211 eP 25 45.70 -0.7
eS 27 13.60
NDI 9.98 153 eP 26 06.00 1.8
eS 27 43.00

GKN 14.29 129 P 27 02.20 0.1
KKN 14.84 128 P 27 08.80 -0.6
DMN 14.86 129 P 27 10.30 0.6
PKI 15.08 128 P 27 11.90 -0.7
GUN 15.13 126 P 27 12.40 -0.9
YKA 79.96 3 eP 35 47.20 0.4
0.6s 0.60nm 3.8mb
S.D. = 1.1 on 8 of 8 obs.

APR 21, 1991 23h 12m 22.54± 0.13s
18.287 S ± 3.2km 46.416 E ± 3.4km
DEPTH = 18.6km (geophysicist)
5.8mb (94 obs.) 5.3Msz (18 obs.)
MALAGASAY REPUBLIC (583)

Felt at Antananarivo. Depth from
broadband displacement
seismograms.

FAULT PLANE SOLUTION: P-Waves
NP1:Strike=210 Dip=60 Slip=-90
NP2: 30 30 -90
Principal Axes:

T Plg=15 Azm=300
P 75 120
Comment: The focal mechanism is
poorly controlled and
corresponds to normal
faulting. The preferred fault
plane is NP1.

RADIATED ENERGY
No. of sto: 6 Focal mech. M
Energy 1.1±0.3*10**13 Nm

MOMENT TENSOR SOLUTION
Dep 16 No. of sto: 9
Moment Tensor; Scale 10**17 Nm
Mrr=-2.26 Mtt= 0.39
Mff= 1.87 Mrt= 0.42
Mrf= 0.24 Mtf= 1.17

Principal axes:
T Vol= 2.55 Plg= 5 Azm=299
N -0.23 7 30
P -2.33 82 174

Best Double Couple:Mo=2.4*10**17
NP1:Strike= 22 Dip=41 Slip=-101
NP2: 216 50 -81

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN

L.P.B.: 19S, 38C
Centroid Location:
Origin Time 23:12:28.7 0.3

Lat 18.51S 0.04 Lon 46.42E 0.04
Dep 15.0 FIX Half-duration 2.5

Moment Tensor; Scale 10**17 Nm
Mrr=-2.07 0.06 Mtt= 0.13 0.09
Mff= 1.94 0.08 Mrt= 1.28 0.20
Mrf= 0.69 0.26 Mtf=-0.41 0.06

Principal Axes:
T Vol= 2.08 Plg= 7 Azm=263
N 0.71 25 356
P -2.79 63 158

Best Double Couple:Mo=2.4*10**17
NP1:Strike=327 Dip=44 Slip=-128
NP2: 194 57 -59

NPA 7.56 294 iPc 14 03.00 -11.6X
SONG 13.32 280 eP 15 30.40 -3.0X
eS 18 08.60

PTZ 15.02 283 iPd 15 48.00 -7.7X
i 15 59.50
i 18 02.50
i 18 41.00
iS 19 00.00

BUL 16.92 261 iPc 16 16.10 -4.0X
iP 16 26.50
i 19 24.10
i 27 19.00
i 16 24.00 -6.0X
i 16 42.00
i 16 59.00
i 19 43.00
i 20 58.50

LSZ 17.71 277 iPd 16 24.00 -6.0X
i 16 42.00
i 16 59.00
i 19 43.00
i 20 58.50
SLR 18.36 243 iPd 16 35.00 -3.1X
0.6s 23.33nm 4.5mb X
Z 17s 14.97um

KMZ 20.37 281 iPc 16 46.00
i 16 58.00 -3.1X
i 17 05.00 26kmX
i 17 12.00
i 21 18.00
i 22 25.50

AAE 28.17 344 eP 18 18.30 1.9
GBR 29.51 352 ePd 18 29.16 1.0
ATA 29.72 354 ePd 18 31.36 1.4
SGH 29.77 353 ePd 18 31.86 1.4
ARO 29.83 353 ePd 18 32.50 1.4
MKL 29.98 354 ePd 18 33.36 1.1
TDD 30.10 353 ePd 18 34.52 1.2
PAF 36.44 154 e(P) 19 08.00 -19.9X
e(S) 25 00.00

KMSA 38.46 357 ePd 19 48.30 3.0X
KOD 41.74 50 eP 20 14.00 1.2
eS 25 36.00

RYD 42.75 0 iPd 20 23.00 2.5
GBA 44.04 46 Pd 20 31.30 0.2
0.8s 63.70nm 5.5mb

DHR 44.47 5 ePd 20 36.90 2.5
BOM 45.14 36 iPc 20 41.00 1.1
eS 27 24.50

WAJH 45.22 347 ePd 20 42.30 1.8
POO 45.45 38 iPd 20 40.70 -1.8
1.1s 111.39nm 5.7mb

SHI 48.01 7 iPd 21 03.00 0.3
HQL 48.53 347 ePd 21 08.90 2.4
PRNI 49.58 347 eP 21 16.00 1.4

CSTJ 50.01 349 Pd 21 18.09 0.2

HLW 50.02 343 ePd 21 18.50 0.6
QTRJ 50.30 348 P 21 19.16 -1.0
MAW 50.41 172 iPc 21 19.80 -0.7

0.9s 33.00nm 5.3mb
MDSJ 50.58 349 Pd 21 21.65 -0.6
MKRJ 50.62 348 Pd 21 21.38 -1.2

MASJ 50.78 348 Pd 21 22.78 -1.0
SALJ 51.06 348 Pd 21 24.95 -0.9
JARJ 51.23 349 Pd 21 26.29 -0.9

BURJ 51.26 348 Pd 21 26.33 -1.1
ATZ 51.92 348 iPd 21 33.80 1.4
QUE 52.10 23 iPd 21 34.40 0.5

1.2s 2250.00nm 7.0mb X
HRI 52.27 349 eP 21 36.00 0.9
KER 52.35 1 iPc 21 43.60 7.9X

BHL 52.90 349 P 21 40.00 0.2
TEH 53.93 5 ePc 21 48.00 0.7
NDI 55.38 33 iPd 21 58.00 0.1

0.8s 85.82nm 5.8mb
MAIO 55.68 13 iPd 22 00.50 0.4
e 30 04.00

TAB 56.05 360 iPd 22 03.70 1.0
KIC 56.08 291 Pd 22 02.14 -1.1
1.1s 93.50nm 5.7mb

LIC 56.28 291 Pd 22 03.20 -1.4
1.2s 83.50nm 5.7mb
Z 19s 4.50um 5.6Msz

NVL 56.39 193 iPc 22 02.50 -2.2
i 22 08.00 18kmX
i 22 33.00
i 23 07.00
e 24 20.00

TIC 56.46 291 Pd 22 04.90 -1.1
1.0s 135.50nm 5.9mb
NPS 56.80 340 eP 22 08.50 0.5

ELL 56.91 344 iP 22 10.90 1.9
BCK 57.42 345 iP 22 12.70 0.2
YER 57.71 343 iP 22 15.80 1.3

LKO 58.30 294 Pd 22 17.88 -1.1
1.0s 108.50nm 5.9mb
IPM 58.41 73 ePd 22 19.50 -0.3

1.4s 142.80nm 5.8mb
KHL 58.50 344 eP 22 19.00 -1.0
VLI 59.03 338 eP 22 22.30 -1.3

GKN 59.05 40 Pd 22 23.60 -0.5
DMN 59.05 40 Pd 22 23.70 -0.5
ALT 59.05 345 iP 22 23.50 -0.4

IZM 59.18 343 iP 22 25.30 0.6
PKI 59.21 41 Pd 22 24.50 -0.9
KKN 59.28 40 Pd 22 25.00 -0.8

GUN 59.74 41 Pd 22 28.50 -0.6
KVT 59.84 351 eP 22 30.00 0.8
ATH 59.89 339 eP 22 30.00 0.5

DST 59.94 344 iP 22 30.20 0.3
PRK 60.25 342 eP 22 32.50 0.5
EYL 60.47 346 iP 22 33.80 0.2

KCT 60.62 344 eP 22 33.40 -1.1
YLV 60.66 345 eP 22 32.40 -2.5
HRT 60.83 345 iP 22 35.80 -0.2

EDC 60.84 344 iP 22 34.00 -1.9
GBZT 60.85 345 eP 22 35.70 -0.3
KHT 61.02 61 iPd 22 36.50 -1.1

KGT 61.08 343 iP 22 37.90 0.3
VLS 61.18 337 eP 22 37.20 -1.1
ISK 61.21 345 iP 22 38.00 -0.4

ITU 61.26 345 iPc 22 38.00 -0.8
AGG 61.31 339 ePd 22 38.00 -0.4
CTT 61.44 345 iP 22 39.30 -0.8

PAIG 61.67 340 iPc 22 41.04 -0.6
ALN 61.85 343 ePd 22 42.48 -0.3
RDO 62.22 342 eP 22 45.00 -0.3

IGT 62.47 337 ePd 22 47.16 0.2
THE 62.54 340 ePd 22 47.20 -0.2
SOH 62.59 340 ePc 22 47.08 -0.7

KZN 62.65 339 eP 22 47.00 -1.3
NST 62.75 61 iPd 22 53.50 4.3X
SRS 62.78 341 iPc 22 47.80 -1.2

LSK 62.92 338 eP 22 44.60 -5.4X
GRG 63.02 340 ePd 22 50.24 -0.4
KNT 63.04 340 ePd 22 50.36 -0.4

DIM 63.06 343 iPd 22 51.00 0.2
JMB 63.16 344 iPd 22 52.00 0.5
FNA 63.21 339 iPd 22 51.38 -0.5

VAY 63.29 340 iPc 22 51.70 -0.7
1.0s 130.00nm 6.0mb
PLD 63.35 342 iPd 22 53.00 -19.7X

CHG 63.41 57 ePd 22 53.00 -0.6

LOR	75.63	332	iPd	24	08.00	0.0				e	25	19.10			1.0s	60.00nm		6.0mb				
	1.0s		60.00nm			5.6mb	WRA	82.06	108	P	24	43.00	-0.6		SNY	92.83	47	iPc	25	35.40	0.2	
SSF	75.63	331	iPd	24	07.80	-0.3		0.9s		72.90nm			5.7mb			1.4s	100.00nm		6.0mb			
	1.0s		24.00nm			5.2mb	WB2	82.07	108	iPc	24	43.30	-0.4				PP	25	41.60			
TCF	75.66	330	iPd	24	09.00	0.7		1.0s		86.10nm			5.8mb		CN2	94.83	46	P	25	43.50	-0.9	
EPLA	75.88	321	iPd	24	09.70	0.0	HFS	82.53	344	eP	24	44.40	-0.7		Z	16s		2.00um		5.7MszX		
LSF	75.96	330	eP	24	10.50	0.6		1.1s		120.40nm			5.9mb				ePP	25	49.00			
GRC	76.00	331	P	24	10.39	0.3	Z	17s		0.38um			4.8MszX				ePP	29	38.00			
GTA	76.01	40	iPd	24	11.00	0.4				LR	59	00.00					eS	36	58.00			
	1.4s		170.00nm			5.9mb	BTO	83.14	43	iPd	24	50.00	1.2		MDJ	97.91	46	eP	25	57.00	-1.4	
Z	18s		1.90um			5.4Msz				PP	24	56.00			SIV	100.91	249	Pdiff	26	12.40	-0.3	
E	17s		1.50um							eS	35	12.00			ZOBO	106.99	246	Pdiff	26	42.00	1.6	
			PP	24	17.40					83.32	47	Pd	24	50.40	0.6	FRB	117.24	333	ePKPc	31	06.40	-1.3
			S	33	54.00					1.4s		90.00nm		5.8mb	BRW	125.23	9	ePKP	31	23.30	0.5	
			SS	34	04.00					N	13s		0.44um			UPA	126.83	268	iPKPd	31	27.50	-0.1
			SSKs	34	13.00					E	16s		0.95um				1.0s		42.00nm			
			SS	38	48.00		BMA	83.63	248	eP	24	52.30	0.6		ANM	129.05	17	ePKP	31	31.20	0.8	
BRN	76.09	340	ePd	24	11.50	1.0	ECP	83.79	330	iPd	24	52.20	0.5		BLA	129.98	303	PKP	31	32.40	-0.7	
WLF	76.46	334	iPd	24	12.70	0.1		0.9s		133.00nm			6.2mb		INK	130.00	360	ePKP	31	28.50	-3.6X	
			i	24	18.05	17kmX	BFD	83.88	127	iPc	24	54.00	1.3			1.3s		55.00nm				
LZH	76.62	45	ePd	24	13.76	-0.3		1.0s		109.00nm			6.0mb		NAV	130.27	304	PKP	31	32.70	-0.9	
	2.0s		270.00nm			6.0mb	NB2	83.95	344	P	24	52.20	-0.3		IMA	130.45	11	ePKP	31	33.50	0.3	
N	13s		0.32um					1.1s		176.00nm			6.2mb		LHS	130.58	300	PKP	31	32.40	-1.8	
E	13s		0.41um				ETA	84.06	331	eP	24	53.70	0.7		JSC	130.97	300	PKP	31	34.00	-1.0	
			ePPc	24	19.72	19kmX	ECB	84.11	330	P	24	54.20	0.9		FBA	132.45	8	ePKP	31	36.10	-0.7	
			PcP	24	21.87		HHC	84.28	44	iPd	24	56.50	1.9		TTA	132.78	14	PKP	31	32.90	-4.7X	
			SP	24	27.00			1.0s		200.00nm			6.3mb		GBTN	133.22	302	PKP	31	38.50	-0.7	
			PP	27	09.00			Z	20s		1.00um		5.2Msz		YKA	133.90	348	ePKP	31	22.10	-17.5X	
			eS	34	00.00					SKS	35	09.00				1.0s		0.70nm				
			SKS	34	19.00					S	35	23.00			SVW	134.46	15	ePKP	31	41.30	0.5	
MFF	77.02	329	iPd	24	16.50	0.6	EKA	84.49	334	Pc	24	56.00	0.8		TOA	135.35	8	PKP	31	43.20	0.7	
	1.0s		44.00nm			5.5mb		1.1s		35.80nm		5.5mb		PMR	135.37	11	PKP	31	43.30	0.9		
MEM	77.26	335	iPd	24	17.38	0.3	SOB1	84.63	262	(P)	24	58.00	1.2		Z	19s		0.69um		5.4Msz		
			ic	24	23.56	20kmX	ESY	84.67	335	ePc	24	56.90	0.8		PDB	135.96	15	PKP	31	41.10	-2.6X	
ENN	77.41	335	iPd	24	17.70	-0.2		1.1s		110.00nm			6.0mb		KLU	135.97	8	PKP	31	38.70	-5.0X	
	1.0s		99.00nm			5.8mb	EBL	84.74	334	ePc	24	57.60	1.1		FFC	136.34	334	ePKP	31	42.00	-2.5X	
			e	24	23.50	19kmX		1.1s		93.00nm			5.9mb			1.0s		17.00nm				
DOU	77.44	334	P	24	18.70	0.6	EDI	84.90	335	ePc	24	58.30	1.1		FVM	137.63	307	PKP	31	46.80	-0.8	
	1.3s		221.40nm			6.1mb		1.3s		82.00nm			5.8mb		EDM	141.74	340	ePKP	31	49.00	-5.6X	
SNF	77.89	334	Pd	24	21.00	0.5	EBH	85.26	335	ePc	24	59.80	0.8		SES	143.25	336	ePKPc	31	53.10	-4.1X	
ERUA	77.96	322	eP	24	21.10	-0.1		1.0s		96.00nm			6.0mb			1.3s		138.00nm				
WTS	78.02	336	eP	24	21.00	-0.2	EDU	85.26	335	ePc	24	59.70	0.7		PMO	144.04	156	iPKP	31	59.40	0.0	
	1.0s		44.00nm			5.5mb		1.0s		76.00nm			5.9mb			1.0s		40.00nm				
			e	26	04.00	467kmX	TAU	85.44	134	eP	25	08.00	7.6X		RUV	144.06	157	iPKP	32	01.30	1.8	
PTO	78.05	321	ePKP	24	22.50	0.9	NJ2	85.48	54	Pd	25	01.00	0.3			1.0s		25.00nm				
UCC	78.07	334	Pc	24	22.30	0.8		1.4s		100.00nm			5.8mb		TPT	144.16	156	iPKP	31	59.70	0.0	
KNA	78.12	103	iPd	24	22.20	-0.3	Z	22s		0.60um			4.9Msz			1.0s		55.00nm				
	0.9s		202.00nm			6.2mb				PP	25	06.50			RSSD	144.26	323	PKP	31	58.30	-1.1	
SBA	78.28	169	iPd	24	23.00	0.6				S	35	36.00			Z	20s		1.13um		5.6Msz		
LDF	78.42	331	iPd	24	24.00	0.5	RGS	85.81	344	eP	25	02.00	0.4		MEO	144.86	305	ePKP	31	59.50	-0.9	
	1.2s		166.60nm			6.0mb	TIA	85.96	50	Pd	25	03.40	0.4		OXX	144.90	274	iPKP	32	00.82	-0.4	
LPF	78.46	330	iPd	24	24.20	0.5		1.2s		100.00nm			5.9mb		IISM	145.72	277	iPKP	32	03.17	0.9	
	1.0s		114.00nm			5.9mb	Z	20s		1.20um			5.3Msz		IIT	146.60	277	ePKP	32	04.89	0.8	
GRR	78.63	330	iPd	24	25.00	0.4	N	20s		1.50um					IIA	146.94	277	ePKP	32	05.32	1.1	
	1.0s		60.00nm			5.6mb	E	20s		1.20um					PNT	147.06	343	ePKPd	32	03.00	-0.6	
FLN	78.71	330	iPd	24	25.50	0.4				PP	25	09.80				1.0s		187.00nm				
	1.0s		90.00nm			5.8mb				S	35	35.00					pP	32	12.00			
EMON	78.72	323	eP	24	25.90	0.6	TOO	85.97	128	iPc	25	05.30	2.1		LRM	147.42	332	ePKP	32	05.10	0.5	
EZAM	78.72	322	eP	24	25.90	0.6		0.9s		129.00nm			6.1mb		GLD	147.48	317	PKP	32	05.50	0.7	
WIT	78.72	337	eP	24	26.00	0.9				i	25	11.60	20kmX		Z	19s		0.95um		5.6Msz		
XAN	79.02	49	iPd	24	27.00	-0.2	VAO	86.01	247	eP	25	05.00	1.3		GOL	147.60	317	PKP	32	03.30	-1.8	
	1.4s		200.00nm			6.0mb				iP	25	11.00	19kmX		Z	20s		0.75um		5.5Msz		
STS	79.08	322	eP	24	28.30	1.0				e	25	14.60			III	147.64	276	(PKP)	32	04.91	-0.7	
COP	79.10	341	iPc	24	27.70	0.7				e	25	18.10			DPW	147.93	340	PKP	32	05.10	0.0	
	1.1s		167.09nm			6.0mb				e	25	31.60			PGC	148.62	347	ePKP	32	10.00	4.0X	
			i	24	34.00	20kmX	QIS	86.60	110	eP	25	06.40	-0.1			1.2s		143.00nm				
NUR	80.47	349	iP	24	34.00	-0.3	SOD	86.65	352	iP	25	05.40	-0.3		RMW	149.34	344	PKP	32	06.60	-0.8	
	1.2s		141.60nm			5.9mb	SSE	86.92	56	Pc	25	08.00	0.3		MRX	149.36	278	iPKP	32	13.01	5.0X	
ASPA	80.64	112	iPd	24	36.20	0.0		1.4s		100.00nm			5.9mb		PTI	149.61	328	PKP	32	08.60	0.6	
	1.2s		133.70nm			5.8mb	Z	20s		1.10um			5.3Msz		SHW	150.63	344	PKP	32	09.90	0.5	
BAG	80.72	69	eP	24	36.00	-0.8	E	18s		0.90um					DAU	150.75	324	PKP	32	10.60	0.6	
MUD	80.77	340	iPc	24	36.80	0.8				SP	25	14.00			ANMO	150.75	310	PKP	32	07.00	-3.0X	
	1.4s		126.00nm			5.7mb				eSKS	35	33.00			Z	20s		0.53um		5.3Msz		
			i	24	43.00	20kmX				S	35	48.00			ALO	150.75	310	ePKP	32	10.00	0.0	
UPP	81.32	346	iP	24	38.40	-0.4	BJI	86.99	46	eP	25	08.50	0.6		Z	20s		0.71um		5.5Msz		
WHN	81.36	54	iPd	24	40.80	1.1		1.6s		110.00nm			5.8mb		MSU	152.54	322	PKP	32	13.00	0.4	
	1.5s		100.00nm			5.6mb				ePP	28	34.00			LBFM	154.93	339	PKP	32	16.50	0.8	
Z	20s		0.80um			5.1Msz				eS	35	46.00			TNP	155.64	327	PKP	32	17.40	0.6	
E	18s		1.30um							iPc	25	15.00	0.4		MIN	155.71	337	ePKP	3			

21d 23h

FRI	157.73	330	ePKP	32 19.50	0.3
TPC	157.79	319	ePKP	32 22.00	2.5x
			e	33 53.00	
ISA	158.12	325	ePKPd	32 21.56	1.7
			iPKPab32	54.99	
			epP'ab33	00.79	
ARN	158.26	333	PKP	32 20.70	0.8
MHC	158.31	333	ePKP	32 21.50	1.4
SBB	158.47	322	ePKP	32 21.00	0.7
			e	32 56.00	
LLA	158.61	331	ePKP	32 21.50	1.2
PEC	158.62	320	PKP	32 21.80	1.4
RVR	158.68	320	ePKP	32 19.00	-1.4
			e	32 56.00	
PLM	158.79	318	ePKP	32 23.00	2.2
			e	32 57.00	
PR1	158.87	330	ePKP	32 22.80	2.1
MWC	158.93	322	ePKP	32 19.00	-1.9
			e	32 58.00	
PRS	159.04	331	ePKP	32 22.00	1.3
BAR	159.10	317	ePKP	32 22.00	1.0
			e	32 58.00	
BCH	159.33	327	PKP	32 23.10	1.9
SYP	159.79	326	ePKP	32 24.00	2.2
			e	33 03.00	

S.D. = 0.9 on 381 of 412 obs.

? APR 22, 1991 00h 31m 39.27±11.68s
 43.026 N ±88.7km 18.677 E ±12.2km
 DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)

BRY	0.16	218	iPgd	31 43.02	0.0
			iSg	31 45.52	
NKY	0.32	132	iPgc	31 46.15	0.2
			iSg	31 51.49	
Hcy	0.59	193	iPgd	31 51.35	0.1
			iSg	32 01.90	
TTG	0.74	144	iPgc	31 53.37	-0.3
			iSg	32 04.19	

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

* APR 22, 1991 00h 36m 20.86±2.46s
 37.273 N ±17.6km 20.982 E ±18.5km
 DEPTH = 10.0km (geophysicist)

IONIAN SEA (399)
MD 3.7 (ATH).

VLS	0.96	341	ePb	36 38.20	-0.8
VLI	1.66	109	ePb	36 50.00	-0.1
AGG	2.04	31	eP	36 57.80	2.1
IGT	2.31	347	eP	37 00.80	1.2
KZN	3.09	11	ePn	37 10.80	0.2
PAIG	3.39	38	eP	37 13.90	-0.9
FNA	3.52	5	eP	37 16.80	0.1
			eS	37 59.80	
GRG	3.84	16	eP	37 20.10	-1.2
SOH	4.00	27	eP	37 23.40	-0.1
KNT	4.16	20	eP	37 25.40	-0.4

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

APR 22, 1991 00h 38m 49.63±0.77s
 43.004 N ±7.0km 18.698 E ±5.0km
 DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)
ML 2.2 (TTG).

BRY	0.15	228	iPgd	38 52.86	-0.4
			iSg	38 55.93	
NKY	0.29	131	iPgc	38 55.88	0.1
			iSg	39 01.15	
Hcy	0.58	195	iPgc	39 00.85	-0.4
			iSg	39 11.93	
PLE	0.60	57	iPgc	39 01.33	-0.6
			iSg	39 10.63	
TTG	0.71	144	iPgc	39 02.60	-1.0
			iSg	39 15.63	
BDV	0.73	172	iPgd	39 04.78	0.9
			iSg	39 16.91	
IVA	0.89	98	iPgc	39 07.00	0.2
			iSg	39 21.60	
PVY	1.02	113	iPgd	39 09.76	0.7
			iSg	39 25.58	
HVAR	1.66	277	ePn	39 19.40	0.5
			iSn	39 43.90	

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

& APR 22, 1991 01h 01m 20.27s
 37.941 N 80.207 W
 DEPTH = 14.7km
 WEST VIRGINIA (491)
 <BLA>. mBLg 3.5 (BLA). Felt (IV)
 at Auto and (III) at Caldwell.

VWV	0.50	197	Pc	01 29.70	-0.5
			S	01 36.25	
HWV	0.61	235	Pc	01 31.87	-0.3
			S	01 39.06	
BLA	0.75	193	eP	01 34.37	-0.1
			eS	01 43.87	
NAV	0.78	217	iPc	01 34.60	-0.4
			eS	01 44.56	
PWV	0.90	228	iPc	01 37.00	-0.1
			eS	01 49.19	
WMV	1.03	216	eP	01 38.70	-0.7
			eS	01 52.30	
CVL	1.38	88	eP	01 45.25	0.3
FRV	1.64	116	eP	01 49.84	1.1
GHV	1.67	94	eP	01 50.26	1.2
NA12	1.84	88	eP	01 53.29	1.7
NA2	1.95	84	eP	01 54.98	1.8
CBN	2.25	82	eP	02 00.00	2.5
			eS	02 29.00	
CNV	2.25	82	eP	01 59.88	2.4
PBV	2.33	113	eP	02 01.36	2.7
LHS	3.49	188	eP	02 15.10	0.0
TKL	3.66	233	eP	02 17.40	-0.1
CLE	3.69	344	iP	02 25.30	7.4
GBTN	3.93	236	eP	02 21.60	0.2
PRM	4.23	205	eP	02 25.50	-0.1
RSCP	4.90	243	eP	02 35.20	0.1
DLA	5.02	348	P	02 46.60	9.8
LDN	5.15	352	P	02 50.50	11.9
ELF	5.31	351	P	02 54.60	13.6

23 obs. associated

& APR 22, 1991 01h 07m 06.27s
 60.454 N 153.733 W
 DEPTH = 15.4km
 SOUTHERN ALASKA (2)
 <AEIC>. ML 2.6 (AEIC).

NCT	0.41	74	iPc	07 14.25	-0.5
RDW	0.46	86	iPc	07 15.33	-0.3
			eS	07 21.93	
RED	0.48	94	iPc	07 15.59	-0.3
			eS	07 22.66	
RDN	0.48	82	iPc	07 15.85	-0.2
RS2	0.48	89	iPc	07 15.79	-0.3
			eS	07 23.01	
RSO	0.49	89	ePc	07 15.78	-0.3
			eS	07 23.01	
REF	0.51	86	iPc	07 16.17	-0.4
DFR	0.54	75	iPc	07 16.35	-0.5
RDT	0.67	79	iPc	07 18.67	-0.5
PDB	0.71	199	iPc	07 19.26	-0.5
			eS	07 28.91	
CKL	1.01	42	iPc	07 23.90	-1.1
BGL	1.04	38	ePc	07 24.38	-1.2
			S	07 38.41	
SPU	1.10	48	iPc	07 25.70	-0.8
AUH	1.10	172	eP	07 25.98	-0.6
AUE	1.11	170	eP	07 26.24	-0.4
CRP	1.12	43	ePc	07 26.34	-0.6
			eS	07 40.95	
AUI	1.13	172	eP	07 26.14	-0.9
SVW	1.14	306	iPd	07 25.76	-1.3
			eS	07 39.80	
NCG	1.23	38	eP	07 27.67	-1.0
NKA	1.26	76	eP	07 30.73	1.6
NNL	1.28	108	eP	07 31.23	1.7
MCNL	1.31	194	ePd	07 29.77	-0.1
			eS	07 47.13	
CDD	1.53	178	ePc	07 34.05	1.0
CNPM	1.56	125	ePd	07 34.31	0.8
SLKM	1.74	87	eP	07 36.70	0.6
SKT	1.87	34	ePc	07 38.70	0.8
SEW	2.16	97	eP	07 43.29	1.1
PMS	2.19	67	eP	07 44.00	1.4

28 obs. associated

APR 22, 1991 01h 08m 55.71±0.42s
 41.717 N ±4.0km 20.073 E ±3.6km

DEPTH = 5.0km (geophysicist)
 ALBANIA (391)
 ML 3.0 (TTG). Felt (IV) in the
 Debar, Yugoslavia area.

PHP	0.28	96	iPgd	09 01.00	-0.3
LACI	0.28	254	iPgd	09 02.00	0.5
TIR	0.40	203	iPgc	09 04.00	0.2
KKS	0.44	35	iPg	09 04.60	0.1
ULC	0.66	292	iPgd	09 08.70	-0.3
			iSg	09 19.65	
OHR	0.81	138	iPg	09 10.40	-1.6
			iSg	09 23.10	
PVY	0.88	355	iPgd	09 12.85	-0.3
			iSg	09 26.94	
TTG	0.93	320	iPgd	09 13.79	-0.2
			iSg	09 29.64	
SKO	1.05	76	iPg	09 18.00	2.0
			iSg	09 29.50	
BDV	1.09	302	iPgd	09 16.20	-0.4
			iSg	09 34.42	
IVA	1.16	354	iPgc	09 17.77	-0.2
			iSg	09 36.40	
NKY	1.36	324	iPgd	09 21.37	0.1
			iSg	09 43.49	
Hcy	1.38	302	iPgc	09 21.32	-0.3
			iSg	09 43.84	
LSK	1.62	166	ePn	09 26.00	1.0
BRY	1.64	317	iPnd	09 25.94	0.5
			iSn	09 52.25	
PLE	1.69	343	iPnc	09 28.17	2.1x
			iSn	09 53.12	
VAY	1.92	101	ePn	09 28.40	-0.9

S.D. = 0.9 on 16 of 17 obs.

& APR 22, 1991 01h 14m 13.96s
 63.486 N 151.176 W
 DEPTH = 10.2km
 CENTRAL ALASKA (1)
 <AEIC>. ML 3.7 (PMR). 3.6
 (AEIC).

TRF	0.40	95	iPd	14 22.13	-0.1
HUR	0.86	126	iPd	14 30.07	-0.5
			eS	14 43.16	
BWN	1.02	47	iPc	14 34.60	1.3
			eS	14 48.83	
MCK	1.03	75	ePc	14 33.26	-0.2
			eS	14 47.97	
RND	1.05	93	ePc	14 33.57	-0.2
CUT	1.16	159	iPd	14 35.51	-0.1
NEA	1.43	39	iPc	14 38.82	-1.1
			eS	14 59.87	
SKT	1.52	186	ePd	14 41.09	-0.1
			eS	15 01.51	
WRH	1.68	53	iPc	14 42.46	-1.1
			eS	15 06.46	
CCB	1.89	50	iPc	14 45.21	-1.2
			iS	15 13.36	
RDS	1.89	43	ePc	14 45.37	-1.2
			eS	15 11.92	
PWA	1.94	161	ePd	14 47.44	0.2
MDM	1.96	40	iPc	14 46.37	-1.2
GHO	2.01	148	ePd	14 47.86	-0.5
			eS		

IMA 2.81 339 ePc 14 59.40 -0.4
 RDT 2.98 192 eP 15 02.04 -0.1
 DFR 2.99 194 eP 15 02.42 0.1
 TZL 3.01 116 eP 15 02.79 0.2
 SLKM 3.02 171 eP 15 02.85 0.1
 NCT 3.05 197 eP 15 03.61 0.5
 RDN 3.08 195 eP 15 03.89 0.3
 REF 3.09 194 eP 15 04.38 0.5
 RDW 3.11 195 eP 15 04.18 0.1
 RS2 3.12 195 eP 15 04.79 0.5
 RSO 3.13 194 eP 15 04.76 0.4
 KLU 3.15 127 ePd 15 04.84 0.2
 SVW 3.16 223 eP 15 05.50 0.8
 RED 3.17 194 eP 15 05.70 0.8
 DOT 3.19 84 eP 15 04.60 -0.5
 GLI 3.24 142 ePd 15 06.21 0.4
 VZW 3.26 136 ePd 15 06.38 0.3
 eS 15 47.01
 VLZ 3.27 134 eP 15 06.14 -0.1
 KNIM 3.54 151 ePd 15 09.36 -0.7
 TMW 3.68 89 eP 15 12.44 0.3
 LTI 3.80 154 eP 15 13.06 -0.7
 CNPM 3.97 180 eP 15 16.50 0.3
 PDB 3.98 203 eP 15 15.36 -0.9
 GLB 3.99 118 ePd 15 17.28 0.8
 FYU 3.99 37 eP 15 15.87 -0.5
 CRQM 4.66 122 eP 15 26.43 0.3
 CDD 4.73 196 eP 15 27.24 0.3
 TGL 4.78 121 eP 15 27.41 -0.4
 BALM 4.80 117 ePc 15 27.86 -0.2
 CTGM 5.25 114 eP 15 35.16 0.7
 INK 8.67 48 P 16 19.00 -3.2

0.3s 1.10nm 4.6mb X
 SDN 9.44 214 P 16 32.30 -0.5
 SIT 10.15 122 P 16 40.90 -1.7
 YKA 16.50 77 eP 18 08.70 2.1
 0.6s 0.40nm 2.7mb X
 68 obs. associated

? APR 22, 1991 01h 19m 25.90±0.98s
 37.060 N ± 9.6km 29.424 E ± 7.6km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 3.7 (ISK).

ELL 0.50 129 iPg 19 35.80 -0.2
 eSg 19 44.80
 YER 0.92 275 iPn 19 43.60 0.1
 BCK 1.01 66 iPn 19 45.50 0.4
 KHL 1.26 4 iPn 19 49.10 -0.3
 BBTK 3.82 42 eP 20 30.00 3.9X
 S.D. = 0.6 on 4 of 5 obs.

APR 22, 1991 01h 20m 26.18±1.11s
 34.374 N ± 8.2km 27.528 E ± 5.9km
 DEPTH = 26.9 ± 9.0 km
 4.1mb (10 obs.)

EASTERN MEDITERRANEAN SEA (371)

NPS 1.81 300 ePn 21 01.60 5.6X
 YER 2.82 12 ePn 21 11.60 1.1
 ELL 3.06 39 iPn 21 14.30 0.3
 BCK 3.96 38 iPn 21 27.50 0.9
 PPCY 4.00 81 eP 21 27.00 -0.2
 IZM 4.02 357 ePn 21 35.00 7.5X
 KHL 4.26 22 ePn 21 31.00 0.1
 VLI 4.41 303 ePn 21 35.50 2.4
 CSS 4.82 81 eP 21 38.00 -0.8
 eSn 22 30.50
 DST 5.29 9 ePn 21 45.00 -0.6
 HLW 5.54 143 ePnd 21 51.80 2.7
 eSn 22 52.00
 ADI 6.54 99 iP 22 03.60 0.4
 ZNT 6.63 107 iP 22 04.10 -0.3
 eS 23 12.00
 ATZ 6.64 101 eP 22 05.00 0.4
 eS 23 13.00
 BHL 6.75 92 Pn 22 08.50 2.3
 Sn 23 12.00

VLS 6.77 306 ePn 22 05.00 -1.3
 JVI 7.00 108 iP 22 09.50 -0.1
 THE 7.22 331 ePc 22 14.12 1.5
 KFNJ 7.28 108 P 22 13.50 0.1
 MKRJ 7.38 110 P 22 15.00 0.1
 SRS 7.42 336 ePc 22 16.84 1.5
 KNT 7.70 333 iPd 22 20.92 1.5
 IGT 7.72 314 ePd 22 18.64 -1.0

GRG 7.72 330 iPd 22 21.22 1.5
 MBH 7.74 124 eP 22 20.00 0.0
 SHWJ 7.83 118 P 22 21.30 0.0
 FNA 8.05 324 ePc 22 26.68 2.4
 GAZ 8.35 68 ePn 22 25.00 -3.4
 CSTJ 8.36 110 P 22 28.40 -0.2
 HITJ 8.43 121 P 22 25.70 -4.0
 TDS 10.38 304 P 22 54.90 -1.5
 eSn 24 35.90
 ATN 10.45 295 P 22 56.30 -1.0
 ORI 10.50 306 P 22 56.40 -1.6
 MEU 10.60 288 P 22 58.50 -0.9
 MLR 11.17 354 eP 23 31.00 23.7X
 KBA 16.60 324 iPc 24 17.90 -0.7
 0.9s 10.30nm 3.9mb

KHC 18.00 329 P 24 35.00 -1.0
 PRU 18.29 332 eP 24 38.00 -1.5
 KSP 18.38 337 eP 24 39.50 -1.2
 LPG 19.36 311 eP 24 51.80 -1.1
 0.6s 3.60nm 3.8mb
 GRF 19.45 327 eP 24 51.00 -2.6
 RSL 19.53 312 P 24 53.79 -0.9
 CLL 19.93 333 eP 24 59.00 0.3
 MOX 19.98 329 P 25 02.00 2.8X
 OBN 21.67 14 eP 25 22.00 5.6X
 MEM 22.57 322 P 25 25.90 0.5
 ENN 22.71 323 eP 25 29.00 2.3
 1.0s 20.00nm 4.6mb
 DOU 23.00 320 P 25 31.70 2.1
 WTS 23.07 326 eP 25 08.00 -22.2X
 0.8s 7.00nm
 MFF 24.20 309 eP 25 42.70 1.4
 0.6s 3.60nm 4.1mb
 LDF 24.95 313 eP 25 49.10 0.6
 FLN 25.23 313 eP 25 51.90 0.7
 0.4s 3.45nm 4.3mb
 Z 21s 0.10um 3.3msz

LPF 25.29 311 eP 25 52.40 0.7
 0.6s 5.40nm 4.3mb
 GRR 25.31 312 eP 25 52.50 0.5
 0.6s 7.20nm 4.5mb
 HFS 27.31 345 eP 26 07.50 -2.8
 0.7s 2.20nm 3.9mb
 e 26 17.70
 NB2 28.68 343 P 26 20.20 -2.5
 0.6s 0.60nm 3.5mb
 KIC 40.80 234 (P) 28 11.30 4.3X
 GKN 48.73 81 P 29 11.80 1.1
 DMN 49.26 81 P 29 14.80 -0.1
 KKN 49.33 81 P 29 16.40 1.0
 GUN 49.78 81 P 29 20.00 1.0
 YKA 78.78 343 eP 32 27.50 -0.1
 0.8s 0.50nm 3.6mb
 S.D. = 1.5 on 55 of 62 obs.

* APR 22, 1991 01h 34m 30.29±1.79s
 36.579 N ± 16.5km 71.383 E ± 9.9km
 DEPTH = 69.1 ± 21.9 km
 4.3mb (8 obs.)

AFGHANISTAN-USSR BORDER REGION (717)

MAIO 9.58 272 eP 36 48.00 0.0
 eS 38 29.00
 GKN 14.09 124 P 37 48.40 0.4
 0.5s 24.00nm 4.9mb
 DMN 14.66 124 P 37 56.00 0.4
 0.4s 13.00nm 4.6mb
 KKN 14.66 123 P 37 54.60 -0.9
 0.5s 20.00nm 4.7mb
 GUN 14.99 121 P 38 00.00 0.1
 0.4s 17.00nm 4.6mb
 GBA 23.51 165 Pc 39 34.80 0.0
 0.8s 4.50nm 4.0mb
 HFS 43.19 322 eP 42 25.50 -0.1
 0.6s 1.10nm 3.8mb
 e 42 30.50
 e 42 53.00
 NB2 44.50 323 P 42 36.30 0.0
 0.5s 0.80nm 3.8mb
 YKA 81.15 3 eP 46 39.20 0.1
 0.5s 0.20nm 3.3mb
 S.D. = 0.5 on 9 of 9 obs.

* APR 22, 1991 02h 47m 24.99±0.82s
 39.578 N ± 6.0km 29.418 E ± 7.5km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 3.1 (ISK).

DST 0.61 273 iPg 47 35.70 -1.7
 IZI 0.76 3 iPg 47 39.50 -0.4
 YLV 0.99 358 iPg 47 43.00 -0.8
 eSg 47 56.50
 KCT 1.06 310 iPg 47 45.00 0.1
 iSg 47 58.00
 EYL 1.14 30 iPn 47 46.00 -0.4
 KHL 1.26 176 ePn 47 48.60 0.2
 HRT 1.26 9 iPn 47 48.00 -0.4
 BNT 1.39 304 ePn 47 51.00 0.6
 EDC 1.42 303 ePn 47 51.50 0.7
 ISK 1.51 350 iPn 47 53.00 0.9
 CTT 1.74 335 iPn 47 56.50 1.1
 DMK 2.57 331 ePn 48 11.30 3.9X
 S.D. = 0.9 on 11 of 12 obs.

APR 22, 1991 03h 00m 05.54±0.64s
 36.754 N ± 9.1km 4.930 W ± 4.8km
 DEPTH = 33.0km (normal)
 STRAIT OF GIBRALTAR (385)
 mbLg 3.1 (MDD).

LIJA 0.41 291 eP 00 15.50 0.6
 MAL 0.42 94 iPnc 00 15.00 0.1
 iSg 00 21.50
 EJIF 0.53 235 iP 00 17.21 0.6
 eS 00 22.80
 ALJ 0.55 262 eP 00 20.00 3.1X
 GIBL 0.82 275 eP 00 20.00 -0.7
 CNIL 0.98 247 eP 00 35.00 12.0X
 EHOR 1.10 347 ePg 00 25.60 1.0
 eSg 00 42.10
 ECOG 1.21 64 ePn 00 26.50 0.2
 eSn 00 43.80
 AFC 1.22 65 ePn 00 27.20 0.7
 eSn 00 44.00
 EVAL 1.67 300 iPnc 00 32.20 -0.7
 eSn 00 53.30
 EBAN 1.68 33 ePn 00 35.70 2.7X
 eSn 00 54.80
 ENIJ 2.19 84 ePn 00 39.20 -1.2
 EPLA 3.43 345 ePn 00 57.30 -0.7
 eSn 01 36.70
 S.D. = 0.9 on 10 of 13 obs.

* APR 22, 1991 03h 34m 23.37±0.68s
 45.090 N ± 4.8km 6.982 E ± 7.3km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 1.7 (GEN).

RSP 0.20 72 P 34 28.30 0.4
 S 34 31.31
 RRL 0.22 220 P 34 28.70 0.4
 S 34 31.93
 LSD 0.39 18 P 34 31.21 -0.2
 S 34 36.24
 LPG 0.44 338 Pg 34 32.40 0.0
 Sg 34 37.70
 LPL 0.46 338 Pg 34 32.70 -0.1
 Sg 34 38.10
 PZZ 0.59 172 P 34 34.89 -0.5
 S 34 43.11
 S.D. = 0.5 on 6 of 6 obs.

* APR 22, 1991 04h 26m 33.71±0.60s
 1.043 S ± 11.6km 127.229 E ± 20.3km
 DEPTH = 33.0km (normal)
 5.0mb (5 obs.)

HALMAHERA (267)

MBL 21.26 199 eP 31 18.70 -0.8
 QIS 22.86 149 iPd 31 35.40 0.0
 0.8s 40.00nm 5.0mb
 e 35 42.00
 ASPA 23.40 164 iPc 31 39.90 -0.8
 0.7s 32.30nm 4.9mb
 eS 35 48.40
 STK 33.54 158 eP 33 32.30 19.7X
 0.7s 10.10nm
 i 33 38.00
 ADE 35.41 164 iPc 33 29.20 0.5
 1.0s 70.00nm 5.5mb
 BFD 38.64 160 eP 33 56.60 0.8

22d 04h

BJI	42.12	347	eP	34	03.00	-0.9
LZH	42.88	332	Pc	34	31.50	0.5
	1.5s	57.00nm			5.1mb	
		pP	34	39.50	27kmX	
GUN	49.02	309	P	35	19.60	-0.5
PKI	49.22	309	P	35	22.20	0.6
KKN	49.43	309	P	35	23.00	-0.1
DMN	49.48	308	P	35	24.40	0.9
GKN	50.03	309	P	35	28.40	0.8
HYB	51.32	293	eP	35	57.00	19.6X
GAR	65.54	314	eP	37	15.00	-1.6
SPA	88.96	180	iPc	39	27.00	0.7
	1.0s	10.00nm			5.1mb	
ANT	150.01	146	e(PK)	46	35.00	16.9X
S.D. = 0.9 on 14 of 17 obs.						

APR 22, 1991 06h 25m 15.79±0.91s
 31.647 S ± 6.7km 68.280 W ± 12.0km
 DEPTH = 10.0km (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.05	41	iPc	25	17.70	-0.3
			S	25	21.50	
RTLL	0.36	333	iPc	25	22.00	-1.1
MDZ	1.32	201	eP	25	39.60	-0.7
			iS	25	59.80	
RTRS	1.79	325	iPd	25	47.00	0.1
			S	26	11.90	
JACH	2.22	242	iPc	25	56.20	3.0X
			iS	26	28.50	
PEL	2.52	233	eP	25	58.50	1.0
			iS	26	37.50	
PCH	2.73	223	iPd	26	03.00	2.5X
			iS	26	43.00	
LCCH	3.32	236	iPc	26	10.00	1.1
LNV	3.50	228	iPd	26	10.00	-1.3
			i	27	06.00	
LPB	15.05	1	eP	28	52.00	1.4
ZOBO	15.31	1	eP	28	54.00	-0.2
S.D. = 1.1 on 9 of 11 obs.						

& APR 22, 1991 06h 35m 48.30s
 61.787 N 151.233 W
 DEPTH = 72.9km
 SOUTHERN ALASKA (2)
 <AEIC>.

SKT	0.24	324	iPd	35	58.91	-0.7
			S	36	06.71	
SUA	0.40	144	iPc	36	00.65	-0.2
			eS	36	10.48	
NCG	0.59	229	iPd	36	01.80	-0.7
			S	36	13.47	
PWA	0.66	101	iPc	36	02.85	-0.3
			S	36	14.47	
CRP	0.68	221	iPd	36	03.04	-0.6
			eS	36	15.14	
SPU	0.72	213	iPd	36	03.16	-0.8
			eS	36	15.34	
BGL	0.76	227	iPd	36	03.80	-0.7
CUT	0.77	36	iPc	36	03.70	-0.7
CKL	0.80	222	iPd	36	04.00	-0.8
PMS	0.97	123	ePc	36	06.34	-0.5
			eS	36	20.31	
PLRM	1.02	100	iPc	36	06.43	-1.0
			eS	36	21.32	
NKA	1.05	180	ePc	36	09.35	1.6
GHO	1.10	90	eP	36	07.71	-0.8
			eS	36	22.75	
RDT	1.34	206	iPd	36	10.95	-0.8
SLKM	1.37	159	ePd	36	11.47	-0.6
KNK	1.38	105	ePc	36	11.08	-1.1
			iS	36	29.61	
DFR	1.39	211	iPd	36	11.62	-0.8
			S	36	29.92	
HUR	1.41	31	ePd	36	11.36	-1.2
			eS	36	29.70	
RDN	1.48	211	iPd	36	12.83	-0.8
NCT	1.48	215	iPd	36	13.09	-0.5
REF	1.48	209	iPd	36	13.16	-0.6
RDW	1.52	211	iPd	36	13.66	-0.5
			S	36	33.54	
RS2	1.52	210	eP	36	13.45	-0.8
RSD	1.52	210	ePd	36	13.67	-0.6
RED	1.56	209	ePd	36	14.10	-0.6
			S	36	34.29	

TRF	1.73	14	ePd	36	15.71	-1.3
SCM	1.85	87	ePc	36	17.20	-1.5
SEW	1.90	152	eP	36	19.37	0.2
RND	1.96	33	eP	36	18.52	-1.6
GLI	2.19	113	ePc	36	20.47	-2.8
SVW	2.22	254	ePd	36	22.02	-1.6
			eS	36	48.22	
KNIM	2.23	129	eP	36	20.79	-3.0
CNPM	2.27	180	eP	36	23.77	-0.6
LTJ	2.41	135	eP	36	23.59	-2.6
TOA	2.41	80	eP	36	25.13	-1.2
VLZ	2.44	103	eP	36	23.94	-2.7
KLU	2.55	94	ePd	36	25.92	-2.4
TZL	2.76	82	eP	36	29.32	-1.8
SDG	2.77	72	eP	36	29.93	-1.4
PAX	2.94	64	ePd	36	32.03	-1.6
NEA	2.97	18	eP	36	31.24	-2.8
WRH	3.05	27	eP	36	32.59	-2.6
CCB	3.26	27	ePd	36	35.53	-2.6
MDM	3.46	22	eP	36	38.06	-2.8
GLB	3.56	92	eP	36	39.77	-2.6
GLM	3.65	27	eP	36	40.88	-2.7
CROM	4.04	101	eP	36	46.27	-3.0

47 obs. associated
 ? APR 22, 1991 06h 37m 50.18±4.57s
 33.159 S ± 12.1km 72.244 W ± 32.1km
 DEPTH = 10.0km (geophysicist)
 OFF COAST OF CENTRAL CHILE (134)

IHA	0.52	75	iPc	38	01.40	0.6
			iS	38	06.30	
LCCH	0.65	119	iPd	38	03.50	0.4
			iS	38	10.00	
ROCH	1.05	80	iPd	38	09.90	-0.3
			iS	38	21.50	
LNV	1.06	139	iPd	38	10.50	0.4
			iS	38	22.50	
TACH	1.20	115	iPd	38	12.10	-0.4
			iS	38	25.00	
PEL	1.31	90	iPd	38	14.10	-0.3
			iS	38	28.50	
SAN	1.36	103	eP	38	15.00	-0.2
			i	38	31.00	
JACH	1.47	72	iPd	38	17.00	0.2
			iS	38	34.00	
PCH	1.52	108	iPd	38	17.00	-0.5
			iS	38	36.00	
MDZ	2.86	85	iP	38	42.30	5.5X
S.D. = 0.5 on 9 of 10 obs.						

& APR 22, 1991 06h 40m 01.20s
 44.663 N 112.587 W
 DEPTH = 6.1km
 EASTERN IDAHO (457)
 <BUT>. ML 3.4 (BUT).

MCMT	0.25	312	iPc	40	06.20	-0.2
LTMT	0.37	112	iPc	40	08.30	-0.4
BGMT	0.69	34	iPc	40	14.10	-0.9
HPI	1.02	201	iP	40	19.30	-1.8
HBMT	1.13	359	ePn	40	22.50	-0.4
LRM	1.16	5	iPnc	40	22.60	-0.9
BUT	1.35	1	ePn	40	26.10	-0.6
			eSn	40	44.40	
MEMT	1.48	50	ePn	40	28.20	-0.4
SXM	1.78	33	ePn	40	32.30	-0.5
HRV	2.12	14	ePn	40	36.60	-1.1
BW06	2.89	130	eP	40	52.00	3.1
11 obs. associated						

APR 22, 1991 06h 48m 07.56±0.79s
 40.811 N ± 5.7km 27.940 E ± 7.7km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.6 (ISK).

BNT	0.45	182	iPg	48	16.90	0.1
EDC	0.47	187	ePg	48	16.50	-0.6
KGT	0.60	234	iPg	48	19.90	0.2
DMK	1.02	352	iPg	48	26.80	0.0
			iSg	48	39.80	
YLV	1.12	102	ePn	48	28.40	-0.2
DST	1.31	156	ePn	48	32.40	0.5
S.D. = 0.5 on 6 of 6 obs.						

? APR 22, 1991 07h 10m 30.17±0.95s

44.567 N ± 11.0km 17.406 E ± 9.7km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)
 ML 2.3 (LJU).

HVAR	1.55	207	iPn	10	58.00	0.1
			iSn	11	21.40	
PTJ	1.68	323	iPnd	11	00.30	0.5
			eSn	11	27.10	
VBY	1.79	302	ePnc	11	05.30	4.0X
			iSn	11	31.00	
UZD	2.19	22	ePn	11	12.90	5.8X
BEO	2.19	82	ePn	11	07.00	-0.1
			iSn	11	31.00	
RIY	2.28	291	i(Pn)	11	11.60	3.2X
CEY	2.41	300	ePn	11	09.80	-0.5
			eSg	11	46.50	
			e	11	51.00	
LJU	2.51	307	ePn	11	25.50	13.9X
			eSn	11	56.50	
TRI	2.82	295	eP	12	03.70	47.6X
VOY	2.88	302	e(Pn)	11	24.90	7.9X
			eSn	11	58.40	
BZS	3.16	69	ePc	11	15.50	-5.4X
ZST	3.64	357	eP	12	31.40	63.7X
			e	12	55.40	
S.D. = 0.7 on 4 of 12 obs.						

APR 22, 1991 08h 48m 29.99±0.24s
 30.080 N ± 5.3km 79.720 E ± 3.8km
 DEPTH = 33.0km (normol)
 4.6mb (20 obs.)
 TIBET-INDIA BORDER REGION (305)

NDI	2.59	238	eP	49	11.50	1.0
GKN	4.78	114	P	49	41.60	0.0
DMN	5.33	116	P	49	48.98	-0.6
KKN	5.38	114	P	49	49.62	-0.6
PKI	5.58	115	P	49	52.10	-1.1
GUN	5.81	110	P	49	55.64	-0.9
LSA	9.93	89	iPd	50	54.00	0.1
QUE	11.06	274	eP	51	10.10	1.0
			eS	53	08.10	
GAR	11.79	321	eP	51	15.00	-4.0X
HYB	12.65	185	ePc	51	24.30	-6.1X
	0.8s	34.60nm			5.5mb	
			eS	53	37.00	
POO	12.68	206	eP	51	23.00	-7.8X
			iS	53	34.60	

LDF 61.68 312 eP 58 46.30 -0.6
0.5s 3.65nm 4.8mb
LPO 61.81 308 eP 58 47.60 -0.3
0.5s 2.90nm 4.7mb
LFF 62.05 308 eP 58 49.30 -0.1
0.5s 2.90nm 4.7mb
MFF 62.20 310 eP 58 49.80 -0.7
0.5s 2.90nm 4.7mb
LPF 62.41 312 eP 58 51.90 0.1
0.5s 1.45nm 4.4mb
INK 78.85 12 ePc 00 30.90 0.1
KIC 82.07 273 P 00 49.20 0.3
TIC 82.17 273 P 00 49.80 0.4
LIC 82.38 273 P 00 51.00 0.5
FRB 83.18 346 eP 00 54.00 0.3
YKA 87.04 7 eP 01 12.30 -0.7
0.5s 0.80nm 4.2mb
ZOBO 147.53 288 PKP 08 13.00 2.1
LPB 147.64 287 ePKP 08 06.00 -4.9X
S.D. = 0.8 on 42 of 46 obs.

APR 22, 1991 10h 01m 54.06 ± 0.41s
49.152 N ± 3.4km 6.868 E ± 5.1km
DEPTH = 10.0km (geophysicist)

GERMANY (543)
MD 3.0 (STR), 2.7 (UCC).

GWF 0.53 109 Pg 02 04.35 -0.4
RUP 0.56 13 ePg 02 05.09 -0.5
WLF 0.69 318 iPd 02 07.80 0.0
iS 02 17.36
CDF 0.79 160 Pg 02 08.87 -0.6
WLS 0.81 156 Pg 02 09.33 -0.4
Sg 02 22.79
ECH 0.96 168 Pg 02 12.19 -0.1
Sg 02 27.18
VITF 1.10 212 Pg 02 14.35 -0.4
Sg 02 29.63
MOF 1.31 172 Pg 02 18.76 0.3
BSF 1.32 182 Pg 02 18.89 0.3
TNS 1.48 43 ePnd 02 20.10 -0.8
FEL 1.49 149 Pg 02 22.40 1.5
MEM 1.56 339 iP 02 28.70 6.9X
ENN 1.73 340 iPn 02 25.50 1.2
0.4s 50.00nm
DOU 1.75 303 P 02 24.30 -0.4
i 02 27.30
LOMF 1.80 181 Pn 02 24.87 -0.6
SNF 2.16 310 iPc 02 38.00 7.5X
GRF 2.89 78 ePg 02 50.00 9.0X
eSg 03 33.00
KBA 4.81 113 iPnc 03 09.10 0.7
0.3s 6.00nm
i 03 10.20
e 03 25.00
i 03 27.80
e 04 05.00
S.D. = 0.7 on 15 of 18 obs.

APR 22, 1991 11h 03m 10.05 ± 0.81s
0.297 S ± 5.8km 78.893 W ± 8.8km
DEPTH = 28.3 ± 7.0 km
4.7mb (9 obs.)

ECUADOR (107)
Felt (V) at Santo Domingo de los
Colorados.

YANA 0.37 61 iPd 03 18.50 -0.3
QTO 0.37 76 iP+ 03 18.60 -0.2
iS 03 24.80
QUR 0.39 71 iPd 03 18.70 -0.3
QUIL 0.46 184 P 03 19.00 -1.1
VC1 0.59 125 iP+ 03 23.60 1.3
COTA 0.84 41 iPd 03 26.60 0.2
S 03 39.60
CAYA 0.98 68 iPd 03 18.60 -9.8X
TUNG 1.20 158 iP+ 03 32.60 1.3
ANGL 1.35 94 P 03 37.00 3.4X
UPA 9.24 356 eP 05 35.10 10.6X
LR 07 50.00
ZOBO 19.10 147 P 07 34.00 0.0
Z 20s 0.76um
S 12 28.00
LR 15 48.00
LPB 19.33 147 eP 07 22.00 -14.7X
Z 20s 1.42um

LR 16 16.00
SIV 23.50 132 eP 08 15.00 -3.7X
i 08 20.50
RSCP 36.25 351 P 10 13.00 0.2
TUL 39.31 338 e(P) 10 40.60 2.2
1.0s 13.40nm 4.6mb
FVM 39.55 346 P 10 41.50 1.1
0.9s 16.95nm 4.8mb
ALQ 43.50 326 ePc 11 13.20 0.1
1.0s 15.50nm 4.7mb
ANMO 43.51 326 P 11 13.70 0.6
0.8s 13.06nm 4.8mb
GOL 46.58 332 P 11 38.60 0.9
RSSD 49.58 336 P 12 00.50 -0.5
0.7s 6.06nm 4.7mb
TNP 51.98 322 P 12 19.20 -0.1
0.8s 4.71nm 4.5mb
ORV 55.55 321 P 12 45.40 0.1
SES 57.46 336 eP 12 58.00 -0.8
FFC 58.03 344 eP 13 05.00 2.3X
0.7s 5.00nm 4.7mb
NEW 58.60 331 P 13 05.50 -1.3
PNT 60.52 331 eP 13 20.00 0.0
0.8s 10.00nm 5.0mb
YKA 68.13 343 eP 14 06.60 -2.8X
0.9s 1.70nm 4.2mb
LIC 74.00 83 P 14 44.40 -1.2
KIC 74.29 83 P 14 46.20 -1.1
INK 77.85 342 eP 15 05.00 -1.3
S.D. = 1.0 on 23 of 30 obs.

APR 22, 1991 11h 11m 59.72 ± 1.39s
13.004 N ± 16.1km 94.032 E ± 7.8km
DEPTH = 33.0km (normal)
4.2mb (2 obs.)

ANDAMAN ISLANDS REGION (703)

KHT 4.77 68 iPc 13 11.20 0.1
CHG 7.46 39 eP 13 53.80 4.7X
HYB 15.57 288 eP 15 42.50 4.0X
GBA 16.16 274 Pc 15 46.10 0.0
1.0s 10.80nm 3.9mb
PKI 16.59 332 P 15 51.40 -0.4
GUN 16.67 334 P 15 53.00 0.1
DMN 16.76 331 P 15 53.80 -0.1
KKN 16.83 332 P 15 54.40 -0.3
GKN 17.31 331 P 16 01.40 0.7
LZH 24.62 19 eP 17 18.50 -0.1
1.5s 20.00nm 4.5mb
S.D. = 0.4 on 8 of 10 obs.

APR 22, 1991 12h 00m 15.91 ± 3.54s
24.536 S ± 23.2km 179.915 W ± 34.8km
DEPTH = 534.4 ± 28.2 km
5.0mb (8 obs.)

SOUTH OF FIJI ISLANDS (171)

DZM 12.77 278 iPd 03 03.90 0.8
MNG 16.49 192 eP 03 38.90 -1.1
THZ 18.19 197 P 03 57.60 1.1
KHZ 18.64 195 eP 04 00.80 0.1
LTZ 19.31 198 eP 04 06.40 -0.8
RMO 28.31 259 iPd 05 28.00 -0.1
CMS 30.94 249 iPd 05 51.30 0.7
0.2s 14.00nm 5.2mb
CTA 31.56 271 iPd 05 56.10 0.1
0.6s 72.00nm 5.4mb
TOO 32.17 238 iPc 06 02.40 1.4
BFD 34.38 240 eP 06 20.00 0.4
STK 34.57 249 iPd 06 42.10 21.0X
0.7s 12.40nm
PMG 34.78 290 eP 06 21.50 -1.5
ADE 37.17 244 eP 06 43.30 0.7
0.6s 40.00nm 5.2mb
ASPA 42.01 261 iPd 07 21.90 0.0
0.4s 22.80nm 5.1mb
MTN 47.58 275 eP 08 03.80 -1.2
WARB 48.03 256 iPd 08 07.90 -0.5
0.3s 15.00nm 5.0mb
KLB 54.81 248 iPd 08 57.00 -0.5
0.4s 10.00nm 4.5mb
MBL 55.25 261 iPd 08 59.80 -0.9
0.4s 14.00nm 4.6mb
BAL 55.87 249 eP 09 04.10 -0.8
0.4s 17.00nm 4.7mb
MUN 56.05 247 eP 09 05.80 -0.3
CHG 89.97 291 eP 12 21.80 2.4

NB2 142.72 351 PKP 18 45.60 -3.5X
0.8s 2.10nm
HFS 143.18 349 ePKP 18 46.80 -3.0X
0.4s 9.80nm
e 19 04.10
HRI 147.72 294 iPKPd 19 03.60 5.3X
JVI 148.17 291 iPKPd 19 04.90 5.9X
RMN 148.88 289 iPKPd 19 06.30 6.1X
KSP 150.91 339 iPKPd 19 09.40 6.9X
CLL 151.48 343 iPKP 19 10.80 7.5X
S.D. = 1.1 on 20 of 28 obs.

? APR 22, 1991 12h 01m 05.08 ± 0.95s
41.021 N ± 10.1km 22.315 E ± 8.0km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.5 (SKO).

GRG 0.09 134 iPc 01 07.70 0.0
eS 01 09.90
VAY 0.36 33 iPg 01 12.40 0.0
iSg 01 17.60
KNT 0.46 72 iPd 01 14.53 0.0
eS 01 20.54
FNA 0.75 252 ePd 01 19.82 0.0
eS 01 30.14
S.D. = 0.0 on 4 of 4 obs.

APR 22, 1991 12h 41m 41.36 ± 0.90s
35.419 N ± 9.2km 110.368 E ± 12.7km
DEPTH = 33.0km (normal)
EASTERN CHINA (664)
ML 3.8 (BJI).

TIY 2.83 35 Pg 42 25.20 -0.1
LZH 5.35 279 ePg 43 18.00 16.9X
Sg 44 28.00
HMC 5.50 9 ePn 43 03.40 0.2
Pg 43 16.20
TIA 5.55 80 ePg 43 14.50 10.7X
WHN 5.90 144 iPg 43 29.00 20.2X
CD2 7.14 233 Pn 43 26.40 0.3
GTA 9.29 299 eP 43 56.00 -0.2
GYA 9.48 201 P 43 58.60 -0.2
S.D. = 0.3 on 5 of 8 obs.

APR 22, 1991 12h 56m 07.56 ± 0.63s
43.193 N ± 6.4km 26.035 E ± 6.4km
DEPTH = 10.0km (geophysicist)
BULGARIA (359)

PVL 0.51 273 iPg 56 17.00 -1.0
iSg 56 27.00
JMB 0.83 151 iPg 56 23.00 -0.6
BUC 1.22 2 eP 57 28.00 57.7X
PGB 1.52 246 eP 56 36.00 1.2
iS 56 57.00
KDZ 1.61 197 iPc 56 37.00 0.9
iS 57 00.00
PSN 1.64 72 eP 56 36.00 -0.5
RZN 1.79 213 iP 56 39.00 0.1
iS 57 05.00
DMK 1.87 137 iPn 56 39.80 -0.1
MLR 2.30 358 ePc 56 45.00 -1.2
MMB 2.34 228 ePg 56 52.00 5.2X
iSg 57 26.00
CFR 2.51 37 iPd 56 59.00 10.0X
KKB 2.55 240 eP 56 49.00 -0.7
iSg 57 34.00
CVO 2.63 2 eP 56 55.00 4.2X
VRI 2.72 10 eP 56 54.00 1.9
SKO 3.61 252 ePn 57 21.00 16.4X
S.D. = 1.2 on 10 of 15 obs.

? APR 22, 1991 13h 20m 11.79 ± 1.37s
4.887 S ± 17.0km 149.230 E ± 16.9km
DEPTH = 626.6 ± 17.2 km
4.8mb (4 obs.)
BISMARCK SEA (203)

PMG 4.94 205 iPd 21 46.20 -0.1
CTA 15.38 191 iPd 23 25.10 1.9X
0.8s 74.63nm 5.0mb
OIS 18.17 210 iPd 23 49.90 0.5
ASPA 23.81 217 iPd 24 39.90 -0.5
0.5s 36.90nm 5.3mb
eS 28 13.50

22d 13h

DZM 23.87 137 iPc 24 40.90 0.0
 STK 27.79 194 iPd 25 34.40 19.4X
 0.5s 5.00nm
 WARB 30.25 223 eP 25 36.00 -0.1
 0.3s 4.00nm 4.5mb
 GUN 69.14 302 P 30 19.76 0.2
 0.5s 12.00nm 4.7mb
 PKI 69.43 302 P 30 21.08 -0.2
 KKN 69.61 302 P 30 22.24 0.1
 S.D. = 0.4 on 8 of 10 obs.

* APR 22, 1991 13h 41m 18.87±2.14s
 45.970 N ±12.3km 7.991 E ±16.7km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 MD 2.9 (STR).

ORO 0.35 181 P 41 15.00 -11.0X
 eSg 41 37.00
 LPG 0.99 242 Pg 41 37.70 -0.1
 LPL 0.99 243 Pg 41 37.80 0.0
 Sg 41 52.60
 BNI 1.30 226 P 41 27.00 -16.1X
 eSg 41 59.00
 BBS 1.53 348 Pn 41 46.19 -0.1
 Sg 42 08.57
 LOMF 1.60 330 Pn 41 45.66 -1.6
 FEL 1.91 0 Pn 41 52.78 0.9
 MOF 1.97 343 Pn 41 51.98 -0.8
 Sg 42 20.39
 BSF 2.04 337 Pn 41 54.20 0.5
 WLS 2.48 350 Pn 42 00.00 0.0
 SMF 2.95 285 Pn 42 07.20 0.5
 LOR 3.13 296 Pn 42 10.10 -0.9
 Sg 42 57.00
 SSF 3.28 291 Pn 42 12.50 1.1
 AVF 3.31 286 Pn 42 11.80 0.0
 BGF 3.62 281 Pn 42 15.60 -0.5
 MAF 3.78 276 Pn 42 17.80 -0.7
 TCF 4.03 277 Pn 42 22.10 0.1
 LSF 4.50 276 Pn 42 28.30 -0.4
 DOU 4.72 332 Pd 42 24.00 -7.7X
 S.D. = 0.8 on 16 of 19 obs.

APR 22, 1991 14h 38m 24.55±0.75s
 38.844 N ±5.5km 27.488 E ±10.6km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.3 (ISK).

IZM 0.48 202 iPg 38 34.50 0.2
 eSg 38 42.00
 DST 1.17 49 iPn 38 46.00 -0.4
 EDC 1.53 11 iPn 38 52.50 0.6
 BNT 1.55 12 ePn 38 53.10 0.9
 KHL 1.68 107 iPn 38 54.00 -0.2
 YER 1.82 160 ePn 38 56.00 -0.2
 IZI 2.14 45 ePn 39 01.00 0.2
 YLV 2.25 40 ePn 39 03.00 0.5
 EYL 2.68 49 ePn 39 14.10 5.4X
 DMK 2.98 4 ePn 39 11.00 -1.7
 S.D. = 0.9 on 9 of 10 obs.

* APR 22, 1991 14h 52m 06.67±0.86s
 38.753 N ±7.7km 27.612 E ±11.0km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.2 (ISK).

IZM 0.45 218 iPg 52 15.50 -0.3
 eSg 52 23.00
 DST 1.16 43 iPn 52 27.30 -1.1
 KHL 1.56 105 ePn 52 34.30 -0.3
 BNT 1.62 8 ePn 52 35.50 0.2
 YER 1.70 162 ePn 52 37.00 0.4
 IZI 2.14 42 ePn 52 44.00 1.1
 YLV 2.26 36 ePn 52 47.10 2.3X
 EYL 2.67 47 ePn 52 53.00 2.4X
 S.D. = 0.9 on 6 of 8 obs.

* APR 22, 1991 18h 07m 54.73±0.89s
 18.383 S ±10.6km 178.090 W ±12.3km
 DEPTH = 574.6 ±10.5 km
 4.6mb (6 obs.)
 FIJI ISLANDS REGION (181)

VUN 3.30 276 iP 09 14.90 0.8

SGE 3.88 281 iPd 09 19.00 0.9
 DZM 14.97 253 iPc 11 02.90 -0.2
 NOZ 20.44 189 eP 11 55.30 0.5
 THZ 24.54 196 eP 12 31.00 -0.8
 LTZ 25.66 197 eP 12 39.10 -2.5
 BRS 28.24 246 iPd 13 04.50 0.2
 RMQ 31.62 249 iPc 13 32.50 -0.6
 TOO 37.11 231 iPd 14 19.80 1.2
 TAU 38.09 223 eP 14 27.00 0.5
 ASPA 44.96 255 iPc 15 20.70 -0.5
 0.6s 78.80nm 5.4mb

FORR 50.05 245 iPc 15 48.20 -11.1X
 WARB 51.41 251 iPc 16 08.80 -0.6
 MBL 58.16 256 iPc 16 55.40 -1.2
 OFUJ 68.45 327 P 18 00.30 -1.2
 MAT 68.47 323 iPd 18 00.20 -1.6
 YAMJ 68.63 326 P 18 01.90 -0.8
 PRS 76.36 44 eP 18 46.90 0.1
 PRI 76.72 44 ePc 18 43.70 -5.2X
 MHC 76.76 43 eP 18 48.10 -1.1
 FRI 77.83 44 ePc 18 55.10 0.4
 CMB 77.98 43 ePc 18 55.90 0.3
 WDC 78.11 40 ePc 18 56.60 0.5
 ORV 78.15 41 ePc 18 56.50 0.1
 MDJ 78.75 325 eP 18 57.00 -2.4
 CN2 80.58 322 eP 19 10.40 1.5
 SVW 81.25 11 eP 19 11.60 -0.4
 TTA 82.88 10 eP 19 20.40 0.2
 PMR 82.99 13 eP 19 20.30 -0.4
 0.3s 5.30nm 4.5mb

ANM 83.26 5 eP 19 25.70 3.7X
 TOA 84.12 14 eP 19 26.50 0.1
 PNT 84.96 34 eP 19 30.00 -0.6
 0.8s 16.00nm 4.7mb
 TIY 85.81 312 eP 19 36.00 0.9
 ALO 86.15 51 eP 19 36.00 -1.0
 1.0s 4.25nm 4.1mb
 IMA 86.18 10 eP 19 36.10 -0.2
 FBA 86.20 12 eP 19 35.40 -0.9
 0.6s 9.30nm 4.7mb

XAN 86.79 307 Pc 19 40.90 1.1
 INK 92.26 15 ePd 20 03.20 -1.1
 YKA 94.63 25 eP 20 13.80 -1.4
 0.6s 1.20nm 4.3mb
 KSP 145.65 344 iPKPd 26 30.40 1.1
 0.7s 24.00nm
 SPC 145.89 338 ePKP 26 31.50 1.5
 CLL 145.99 348 iPKPd 26 31.40 1.6
 0.8s 26.00nm
 WTS 146.24 355 ePKP 26 32.00 1.9
 1.0s 25.00nm

PRU 146.88 345 PKPd 26 33.80 2.5X
 e 26 37.00
 MOX 146.89 349 e(PKP) 26 34.00 2.7X
 ENN 147.53 355 ePKP 26 36.00 3.7X
 0.9s 15.00nm
 SRO 147.73 339 ePKP 26 32.70 0.0
 ZST 147.79 341 ePKP 26 36.60 3.8X
 GRF 147.88 349 ePKP 26 36.90 4.0X
 e 26 41.50
 KHC 147.91 346 PKP 26 36.80 3.8X
 ABH 148.25 353 ePKP 26 37.11 3.6X
 FLN 149.64 3 ePKP 26 40.90 5.3X
 CDF 149.73 353 ePKP 26 41.00 5.1X
 0.6s 5.40nm
 LDF 149.82 3 ePKP 26 40.50 4.6X
 0.7s 4.40nm

KBA 149.88 344 iPKPd 26 40.40 4.1
 0.8s 4.50nm
 i 26 49.50
 GRR 149.99 4 ePKP 26 41.70 5.6X
 HAU 150.23 354 ePKP 26 42.40 5.8X
 0.6s 4.50nm
 LPF 150.33 4 ePKP 26 42.50 5.9X
 0.7s 11.00nm
 BSF 150.36 353 ePKP 26 42.40 5.5X
 0.6s 5.40nm

LOR 151.15 357 ePKP 26 44.60 6.7X
 0.7s 5.50nm
 SSF 151.37 358 ePKP 26 45.10 6.9X
 0.8s 6.05nm
 LBF 151.43 357 ePKP 26 45.00 6.6X
 1.0s 10.00nm
 AVF 151.65 358 ePKP 26 45.20 6.6X
 0.6s 1.80nm
 MFF 151.81 3 ePKP 26 45.90 7.0X
 0.7s 5.50nm

BGF 151.89 359 ePKP 26 46.20 7.2X
 TCF 152.17 360 ePKP 26 45.90 6.5X
 0.8s 2.70nm
 LSF 152.21 1 ePKP 26 46.40 6.9X
 0.8s 4.05nm
 S.D. = 1.3 on 42 of 67 obs.

* APR 22, 1991 18h 17m 33.68±1.49s
 35.632 N ±13.4km 33.459 E ±12.3km
 DEPTH = 10.0km (geophysicist)
 CYPRUS (372)
 ML 3.5 (CSS).

CSS 0.68 189 ePd 17 46.20 -0.9
 eSg 17 53.50
 FAM 0.77 145 eP 17 51.60 2.8X
 PPCY 1.18 231 eP 17 56.00 0.4
 ELL 3.08 292 iP 18 29.80 6.4X
 GAZ 3.39 62 ePn 18 27.50 -0.2
 KFNJ 4.19 153 P 18 40.20 1.2
 MKRJ 4.46 155 P 18 42.50 -0.4
 S.D. = 1.2 on 5 of 7 obs.

? APR 22, 1991 18h 20m 33.45±5.52s
 44.429 N ±17.4km 6.487 E ±37.9km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 1.5 (GEN).

PZZ 0.45 80 P 20 42.58 0.0
 S 20 46.58
 RRL 0.54 23 P 20 44.33 0.0
 S 20 49.97
 STV 0.63 107 P 20 45.86 -0.3
 S 20 52.73
 ENR 0.70 106 P 20 47.61 0.3
 S.D. = 0.4 on 4 of 4 obs.

& APR 22, 1991 19h 02m 26.60s
 38.833 N 122.832 W
 DEPTH = 5.0km (geophysicist)
 NORTHERN CALIFORNIA (36)
 <BRK>. ML 3.4 (BRK). Felt (V) at
 Loch Lomond and (IV) at Cobb.
 Also felt strongly at The
 Geysers.

NWRM 0.38 187 eP 02 33.70 -0.5
 ZSP 1.00 153 iPd 02 45.15 -0.8
 i 02 55.15
 iS 02 59.90
 BRK 1.06 155 iPd 02 46.20 -0.8
 iS 03 00.50
 ORV 1.26 55 eP 02 48.50 -2.0
 PCC 1.38 165 ePc 02 50.31 -2.1
 iS 03 10.40
 WDC 1.76 7 e(P) 02 58.50 0.6
 i 03 04.00
 MHC 1.76 147 e(P) 02 55.40 -2.7
 ARN 1.80 145 eP 02 56.40 -2.2
 GCC 1.92 160 ePc 02 57.20 -3.0
 CMB 2.08 112 eP 03 00.00 -2.6
 SAO 2.34 152 ePc 03 03.60 -2.7
 LBFM 2.61 16 e(P) 03 13.00 2.6
 FRI 3.08 126 eP 03 15.90 -0.9
 13 obs. associated

* APR 22, 1991 19h 11m 58.42±1.96s
 16.207 N ±9.7km 61.183 W ±16.4km
 DEPTH = 49.1 ±20.5 km
 LEEWARD ISLANDS (92)
 ML 2.6 (FDF).

SFG 0.05 344 eP 12 06.79 -0.2
 DEG 0.16 48 iPd 12 06.07 -0.4
 S 12 15.00
 MGG 0.31 204 eP 12 07.74 0.1
 SEG 0.37 302 eP 12 09.44 1.3
 PAG 0.51 250 eP 12 10.10 0.2
 S 12 21.70
 BBL 0.74 203 eP 12 11.20 -1.5
 S 12 23.00
 BPA 1.06 322 iPd 12 16.47 -0.6
 S 12 32.10
 FDF 1.47 179 eP 12 24.20 1.3
 S 12 36.20
 S.D. = 1.3 on 8 of 8 obs.

* APR 22, 1991 19h 16m 01.40 ± 0.61s
36.818 N ± 9.3km 73.169 E ± 8.7km
DEPTH = 33.0km (normal)
3.7mb (2 obs.)

NORTHWESTERN KASHMIR (720)

QUE 8.41 220 eP 18 04.20 0.2
NDI 8.80 156 e(P) 18 16.00 6.7X
GKN 13.07 129 P 19 08.32 0.8
KKN 13.63 128 P 19 14.96 0.1
DMN 13.64 129 P 19 15.24 0.1
PKI 13.86 128 P 19 17.46 -0.6
GUN 13.93 126 P 19 18.28 -0.7
HFS 43.90 322 eP 24 05.50 -0.7
0.6s 0.80nm 3.7mb
INK 73.30 10 eP 27 31.50 0.6
YKA 80.83 4 eP 28 13.00 0.2
0.7s 0.70nm 3.8mb
S.D. = 0.6 on 9 of 10 obs.

* APR 22, 1991 19h 18m 43.52 ± 2.75s
11.485 S ± 12.3km 166.194 E ± 23.1km
DEPTH = 63.2 ± 17.7 km
5.1mb (3 obs.)

SANTA CRUZ ISLANDS (184)

HNR 6.47 288 eP 20 18.00 -0.4
eS 21 31.00
SVO 6.69 290 eP 20 22.00 0.6
eS 21 37.00
DZM 10.53 179 iPc 21 13.90 -0.4
iS 23 23.60
BRS 20.23 217 iPc 23 18.00 1.9
RMO 22.20 225 eP 23 36.00 0.1
CMS 27.39 220 iPd 24 24.90 -0.1
e 24 38.00
STK 30.44 224 eP 25 12.00 19.7X
0.8s 3.80nm
ASPA 33.00 244 iPc 25 12.90 -2.0
0.8s 8.90nm 4.6mb
CHG 72.80 294 eP 30 08.00 0.3
GUN 86.91 299 P 31 24.00 0.4
PKI 87.23 299 P 31 24.80 -0.3
KKN 87.40 299 P 31 25.80 0.0
DMN 87.50 299 P 31 26.80 0.5
1.0s 28.00nm 5.4mb
GKN 88.00 299 P 31 28.20 -0.4
1.0s 18.00nm 5.2mb
S.D. = 1.0 on 13 of 14 obs.

APR 22, 1991 20h 37m 57.65 ± 0.39s
38.974 N ± 3.7km 28.798 E ± 5.0km
DEPTH = 3.9 ± 3.3 km

TURKEY (366)
MD 3.6 (ISK). Felt at Demirci.

DST 0.64 348 iPg 38 10.40 -0.1
KHL 0.86 139 iPg 38 14.90 0.0
iSg 38 26.40
ALT 1.03 85 iPn 38 17.90 0.2
IZM 1.33 245 iPn 38 23.00 0.1
IZI 1.46 21 iPn 38 25.00 0.1
BNT 1.54 334 iPn 38 25.40 -0.5
EDC 1.55 333 iPn 38 25.50 -0.6
YLV 1.65 15 iPn 38 26.50 -1.1
GPA 1.76 41 iPn 38 29.50 0.4
GBZT 1.88 15 ePn 38 33.60 2.8X
eSg 38 58.80
YER 1.88 193 iPn 38 30.50 -0.4
EYL 1.90 33 ePn 38 31.00 -0.3
HRT 1.96 20 ePn 38 31.00 -1.1
BCK 2.07 136 iPn 38 34.00 0.4
EZN 2.10 295 ePn 38 33.70 -0.3
ISK 2.10 5 ePn 38 34.00 0.0
ITU 2.14 4 ePn 38 37.00 2.5
iSg 39 05.00
ELL 2.39 158 ePn 38 38.00 -0.3
DMK 2.95 345 ePn 38 46.00 -0.2
BBTK 3.19 73 eP 38 59.00 9.3X
iS 39 46.00
KDZ 3.72 317 iPd 38 58.00 0.9
iS 39 38.00
RZN 4.13 312 eP 39 03.00 -0.1
iS 40 07.00
MMB 4.68 306 eP 39 11.00 0.3
PVL 4.98 329 eP 39 11.00 -4.0X

PGB 5.01 317 eP 39 14.00 -1.5
KKB 5.23 305 eP 39 20.00 1.4
MLR 6.85 343 eP 39 44.00 2.6X
S.D. = 0.9 on 23 of 27 obs.

% APR 22, 1991 20h 57m 38.70 ± 1.72s
38.911 N ± 11.8km 28.563 E ± 15.1km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 3.0 (ISK). Felt at Demirci.

DST 0.70 4 iPg 57 51.70 -0.8
iSg 58 00.00
KHL 0.95 128 ePg 57 57.00 0.1
eSg 58 09.00
ALT 1.21 83 ePn 58 00.90 -0.5
KCT 1.35 353 ePn 58 03.40 -0.1
BNT 1.53 341 ePn 58 06.00 0.0
IZI 1.59 26 ePn 58 08.00 1.0
YLV 1.77 20 iPn 58 09.90 0.3
S.D. = 0.7 on 7 of 7 obs.

% APR 22, 1991 21h 02m 40.98 ± 0.44s
38.995 N ± 3.7km 28.789 E ± 4.9km
DEPTH = 5.0km (geophysicist)

TURKEY (366)

MD 3.0 (ISK). Felt at Demirci.

DST 0.62 348 iPg 02 53.00 -0.4
eSg 03 01.70
KHL 0.88 139 iPg 02 57.90 -0.6
iSg 03 09.90
ALT 1.03 86 ePg 03 00.90 -0.1
eSg 03 14.90
KCT 1.30 345 ePn 03 05.80 0.4
IZM 1.34 244 ePn 03 06.00 -0.1
IZI 1.44 21 ePn 03 07.90 0.1
BNT 1.52 334 ePn 03 08.40 -0.4
EDC 1.53 332 ePn 03 09.00 0.1
YLV 1.63 16 ePn 03 10.40 -0.1
EYL 1.89 33 ePn 03 15.00 0.7
YER 1.90 192 ePn 03 15.00 0.6
HRT 1.95 20 ePn 03 15.00 0.0
S.D. = 0.4 on 12 of 12 obs.

* APR 22, 1991 21h 40m 30.57 ± 0.57s
49.315 N ± 14.0km 28.459 W ± 6.3km
DEPTH = 10.0km (geophysicist)
4.5mb (12 obs.) 4.0Msz (1 obs.)

NORTH ATLANTIC RIDGE (403)

TOL 19.70 109 eP 45 03.00 0.1
TCF 20.75 87 eP 45 13.20 -0.6
1.0s 11.00nm 4.2mb
MAF 21.01 87 eP 45 16.00 -0.4
1.6s 37.30nm 4.5mb
BGF 21.08 86 eP 45 16.40 -0.7
1.3s 54.15nm 4.8mb
CAF 21.15 90 eP 45 17.50 -0.4
1.7s 55.15nm 4.7mb
DOU 21.30 75 P 45 25.70 6.4X
AVF 21.33 85 eP 45 19.00 -0.6
1.1s 19.55nm 4.4mb
SSF 21.35 84 eP 45 19.30 -0.5
1.2s 17.85nm 4.3mb
LOR 21.51 83 eP 45 21.00 -0.5
1.5s 39.15nm 4.6mb
Z 20s 0.60um 4.0Msz
LBF 21.68 84 eP 45 22.80 -0.4
1.4s 32.65nm 4.5mb
SMF 21.70 85 eP 45 23.10 -0.3
1.3s 27.10nm 4.5mb
MEM 22.10 73 P 45 27.50 0.3
ABH 23.21 75 eP 45 46.97 8.7X
GRF 25.57 74 eP 46 02.00 1.0
FRB 25.85 319 eP 46 05.00 1.6
CLL 26.30 70 eP 46 05.00 -2.8X
DAG 27.82 5 ePd 46 21.50 0.1
ZST 29.71 75 eP 46 36.00 -2.7X
SPC 31.35 71 eP 46 58.60 5.2X
FFC 43.65 306 iPd 48 36.60 0.1
0.8s 9.00nm 4.6mb
YKA 46.36 320 eP 48 56.40 -1.7
1.1s 5.40nm 4.5mb
INK 50.30 332 eP 49 27.50 -1.1
SES 50.58 305 eP 49 31.00 -0.1
ALO 57.12 287 eP 50 18.00 -1.7

1.0s 2.50nm 4.2mb
ZOBO 74.14 220 P 52 10.50 1.0
GKN 82.75 55 P 52 57.00 0.8
KKN 83.27 55 P 52 59.80 0.9
DMN 83.32 55 P 53 00.40 1.2
GUN 83.49 54 P 53 01.40 1.2
PKI 83.51 55 P 53 01.00 0.7
S.D. = 0.9 on 25 of 30 obs.

? APR 22, 1991 21h 41m 39.46 ± 2.09s
5.477 S ± 18.4km 128.859 E ± 26.4km
DEPTH = 276.7 ± 22.1 km
4.7mb (3 obs.)

BANDA SEA (280)

MTN 7.66 163 eP 43 30.00 0.7
0.3s 228.00nm 5.7mb X
KNA 10.21 181 eP 44 00.50 -0.8
eS 45 50.00
OIS 18.27 146 eP 45 35.00 -0.4
i 45 39.00
eS 48 52.00
ASPA 18.73 165 iPd 45 40.00 0.0
0.4s 83.10nm 5.5mb
WARB 20.70 186 eP 46 00.20 0.6
GUN 53.10 311 P 50 31.80 0.1
0.6s 14.00nm 4.6mb
PKI 53.28 310 P 50 32.60 -0.4
KKN 53.49 311 P 50 34.40 0.0
DMN 53.53 310 P 50 34.80 0.1
GKN 54.09 310 P 50 38.60 0.0
0.4s 7.00nm 4.5mb
ACX 131.01 72 (PKP) 00 30.52 9.8X
S.D. = 0.5 on 10 of 11 obs.

APR 22, 1991 21h 56m 51.82 ± 0.12s
9.685 N ± 2.3km 83.073 W ± 2.0km
DEPTH = 10.0km (geophysicist)
6.3mb (63 obs.) 7.6Msz (25 obs.)

COSTA RICA (78)

Ms 7.4 (BRK), 6.9 (PAS).
M=4.0*10**20 Nm (PPT). Forty-seven people killed, 109 injured, 7,439 homeless and severe damage (IX) in the Limon-Pandora area. Intensity X was observed in some zones of liquefaction within the epicentral area. Some damage (VI) also occurred in the Son Jose-Alojuelo area and landslides blocked roads between Limon and central Costa Rica. Twenty-eight people killed, 454 injured, 2,400 homeless and 866 buildings destroyed (VII-VIII) in the Guabito-Almirante-Bocas del Toro area, Panama. Slight damage (VI) also occurred at David and Puerto Armuelles, Panama. Felt (IV) at Colon and (III) at Panama City. Felt (III) in eastern El Salvador and (II) at San Salvador. Also felt in Nicaragua and Honduras and on San Andres Island, Colombia. Maximum uplift of 1.4 meters was observed near Limon and sandblows and liquefaction caused subsidence of soils in the Bocas del Toro area. Ground cracks also occurred in the epicentral area. A 2-meter tsunami with maximum runup of 300 meters was observed in the Cahuita-Puerto Viejo area, Costa Rica. Tsunamis were also reported on Bastimentos, Carenero and Colon Islands and at Portobelo, Panama. The maximum amplitude of the tsunami in Panama was about 0.6 m. A 7-cm tsunami (peak-to-trough) was recorded on the tide gauge at Cristobal, Panama. Damage in Costa Rica estimated to be about 43 million U.S. dollars.

22d 21h

FAULT PLANE SOLUTION: P-Waves
 NP1:Strike=292 Dip=80 Slip= 121
 NP2: 38 32 19
 Principal Axes:
 T Plg=46 Azm=234
 P 28 358

Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting with a large strike-slip component. The preferred fault plane is not determined.

RADIATED ENERGY
 No. of sta: 12 Focal mech. F
 Energy 3.2±0.7*10**15 Nm

MOMENT TENSOR SOLUTION
 Dep 34 No. of sta: 16
 Moment Tensor: Scale 10**20 Nm
 Mrr= 0.55 Mtt=-0.75
 Mff= 0.20 Mrt=-0.84
 Mrf= 0.36 Mtf= 0.14

Principal axes:
 T Vol= 1.05 Plg=61 Azm=218
 N 0.18 11 108
 P -1.22 27 13

Best Double Couple:Mo=1.1*10**20
 NP1:Strike= 78 Dip=20 Slip= 58
 NP2: 292 73 101

CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 3S, 9C M.W.: 24S, 69C

Centroid Location:
 Origin Time 21:57:12.3 0.2
 Lat 10.10N 0.01 Lon 82.77W 0.02

Dep 15.0 BDY Half-duration 30.0
 Moment Tensor: Scale 10**20 Nm
 Mrr= 2.14 0.01 Mtt=-1.70 0.01
 Mff=-0.43 0.01 Mrt=-1.41 0.11
 Mrf= 1.99 0.14 Mtf= 1.07 0.01

Principal Axes:
 T Vol= 3.34 Plg=63 Azm=249
 N -0.06 13 133
 P -3.27 23 37

Best Double Couple:Mo=3.3*10**20
 NP1:Strike=103 Dip=25 Slip= 58
 NP2: 318 69 104

LIO 0.32 7 iPd 56 59.80 1.3
 TIG 0.68 199 iPd 57 04.60 -0.8
 BUS 0.69 259 iPd 57 04.20 -1.5
 CDM 0.70 259 iPd 57 04.50 -1.4
 CTCR 0.84 158 ePc 57 07.40 -0.8
 IRZ2 0.86 289 iPc 57 07.70 -0.9
 OCM 0.90 283 iPd 57 08.20 -1.0
 LCR2 0.92 274 iPd 57 08.20 -1.3
 SJS 1.00 285 iPc 57 10.10 -0.8
 ACR 1.03 185 iPd 57 10.20 -1.1
 OPS 1.08 255 iPd 57 11.00 -1.2
 HDC2 1.09 288 iPd 57 11.90 -0.6
 PBC 1.26 178 iPd 57 13.70 -1.5
 POA2 1.26 293 iPc 57 15.00 -0.4
 SRA 1.41 286 iPc 57 16.90 -0.8
 EPA 1.53 281 iPd 57 18.80 -0.4
 JTS 1.95 288 iPc 57 25.50 0.2
 CAO 2.00 271 ePc 57 25.30 -0.8
 JUD 2.48 281 ePc 57 33.00 0.0
 RIN3 2.52 296 ePc 57 32.90 -0.7
 ECO 3.35 95 iPd 57 43.50 -1.8
 S 58 36.50
 UPA 3.56 101 iPd- 57 46.40 -1.9
 S 58 26.40
 SJAS 7.16 304 iPd 58 42.00 2.7X
 NANS 7.47 303 eP 58 45.00 1.4
 TME 7.51 306 eP 58 46.20 2.1
 CUSS 7.93 303 eP 58 54.70 4.7X
 HOBC 8.68 127 eP 59 00.94 0.3
 ANCC 8.69 134 eP 58 59.15 -1.5
 TER 8.75 302 P 59 01.00 -0.4
 PCG 8.76 303 P 59 01.00 -0.8
 CGG 8.77 304 P 59 05.50 3.7X
 BUGC 8.88 130 eP 59 04.87 1.5
 HOOC 8.89 134 eP 59 04.67 1.1
 JAT 9.56 300 P 59 15.00 2.5
 SILC 9.65 136 eP 59 15.26 1.1
 GCM 9.69 10 eP 59 10.20 -4.1X
 SPJ 9.84 32 eP 59 15.59 -1.0
 PCJ 9.85 35 eP 59 14.61 -2.0

PURC 9.90 137 ePc 59 19.00 1.3
 CUMC 10.09 149 eP 59 21.16 0.7
 FUD 10.16 114 iP 59 19.00 -2.1
 PSO 10.19 146 eP 59 23.00 1.4
 BMG 10.23 104 eP 59 23.00 1.1
 BOG 10.25 119 iPd 59 26.00 3.5X
 HOJ 10.30 36 eP 59 22.79 0.1
 SBG 10.31 303 P 59 24.00 0.8
 BBJ 10.32 32 P 59 16.50 -6.6X
 STH 10.32 35 eP 59 21.31 -1.7
 S 01 12.11
 YHJ 10.36 37 eP 59 23.64 0.0
 YHJ 10.36 37 eP 59 23.16 -0.5
 TPX 10.37 301 (P) 59 24.36 0.7
 COTA 10.42 153 P 59 26.00 1.1
 YANA 10.72 155 eP 59 29.30 0.4
 OUR 10.79 155 eP 59 30.50 0.7
 CAYA 10.80 152 iPnd 59 31.30 1.1
 QTO 10.82 155 P 59 31.50 1.2
 OUIL 11.16 158 P 59 38.20 3.2X
 VC1 11.26 155 iP+ 59 38.00 1.6
 ANGL 11.42 151 P 59 31.00 -7.6X
 SCX 11.65 308 (P) 59 47.56 6.4X
 UAV 11.83 94 eP 59 44.80 1.0
 S 01 28.60
 TUNG 11.95 157 eP 59 51.00 5.3X
 SDV 12.30 93 eP 59 47.50 -2.7X
 TOV 13.09 88 eP 00 03.40 2.8X
 CEOS 14.56 91 iP 00 15.70 -4.3X
 MORO 14.57 84 eP 00 19.60 -0.6
 OXX 15.17 300 (P) 00 29.91 1.8
 OLLA 16.03 87 iP 00 36.70 -2.5X
 IISM 16.65 305 (P) 00 47.18 0.3
 IIT 17.42 304 (P) 00 59.95 3.0X
 PPM 17.71 303 (P) 01 02.39 1.6
 IIA 17.77 304 (P) 01 03.22 2.2
 LRS 17.91 60 P 01 01.00 -1.8
 III 18.09 300 (P) 01 07.73 2.5
 SJG 18.43 61 eP 01 07.00 -2.2X
 CPD 18.60 62 P 01 10.00 -1.3
 CUM 18.63 86 iP 01 12.50 0.9
 S 01 27.00
 S 04 40.00
 LPR 18.75 61 P 01 12.00 -1.2
 MRX 20.14 302 iPd 01 31.83 2.8X
 TCE 21.01 85 eP 01 41.91 3.8X
 TPP 21.30 86 eP 01 41.55 0.5
 TRN 21.35 86 eP 01 41.72 0.2
 MGH 21.46 69 eP 01 48.17 5.4X
 TBH 21.68 86 eP 01 47.12 2.2
 PAG 21.78 71 eP 01 46.07 0.1
 S 22 00.00
 S 34 00.00
 BBL 21.85 72 eP 01 45.54 -1.1
 MDN 21.88 73 eP 01 49.56 2.7X
 DPMT 21.88 73 eP 01 49.48 2.6X
 BPA 21.89 68 eP 01 48.98 2.0
 BPA 21.89 68 eP 01 45.43 -1.6
 DBCT 21.91 73 eP 01 49.56 2.3
 TPR 21.98 84 eP 01 49.20 1.3
 FDF 22.00 75 eP 01 49.00 0.8
 S 04 32.00
 SEG 22.03 70 eP 01 50.65 2.2
 AGX 22.09 306 (P) 01 55.22 6.3X
 MGG 22.09 71 eP 01 52.67 3.7X
 DEG 22.43 71 eP 01 55.02 2.6X
 PT10 22.45 164 eP 01 55.50 2.9X
 HBF 23.27 6 P 02 02.20 1.7
 SGS 23.51 5 P 02 04.60 1.8
 PRM 24.29 1 P 02 11.10 0.7
 JSC 24.53 4 P 02 12.80 0.1
 LHS 24.77 4 P 02 14.70 -0.3
 RSCP 25.90 355 P 02 24.00 -1.7
 MZX 26.06 304 (P) 02 30.86 3.5X
 BLA 27.51 5 ePc 02 40.90 0.4
 S 1.5s 2210.53nm 6.7mb
 ARE 28.39 156 iPc 02 52.00 3.0X
 S 0.6s 26.67nm 5.2mb X
 S 07 40.00
 S 22 02.00
 TUL 28.56 338 ePd 02 48.30 -1.6
 S 1.2s 760.40nm 6.4mb
 Z 22s 828.01um 7.3msz
 N 22s 462.57um
 E 22s 381.91um
 S 08 16.50
 LR 10 39.40

CBN 28.86 9 eP 02 55.00 2.4
 FVM 28.94 348 iP 02 55.50 2.1
 S 1.0s 400.00nm 6.2mb
 CCM 29.19 347 ePd 02 58.93 3.3X
 S 03 06.21
 S 03 10.85
 S 07 50.11
 S 09 53.26
 SLM 29.53 349 P 03 00.00 1.3
 Z 18s 452.76um 7.1msz
 ZOBO 29.73 150 ePc 03 02.66 1.3
 S 03 19.87
 LPB 29.97 150 eP 03 03.00 -0.3
 S 1.0s 370.00nm 6.2mb
 SCP 31.33 8 eP 03 15.28 0.7
 S 03 23.23
 S 03 30.01
 CLE 31.71 2 iP 03 18.60 0.7
 LVNJ 31.86 12 P 03 19.90 0.7
 GMTN 32.05 13 eP 03 22.50 1.6
 PNJ 32.08 13 iP 03 23.10 1.9
 S 04 17.10
 S 06 04.00
 S 08 21.90
 LR 11 25.40
 S (ScS) 15 02.00
 TXNY 32.33 13 iP 03 26.40 3.0X
 WVLY 32.90 6 P 03 27.80 -0.5
 ALO 32.99 323 ePc+ 03 28.00 -1.4
 S 1.4s 377.91nm 6.1mb
 Z 20s 407.80um 7.1msz
 S 03 39.00
 S 04 50.00
 ANMO 32.99 323 ePc 03 28.93 -0.5
 S 2.0s 1250.00nm 6.5mb
 S 03 37.54
 S 08 56.26
 S 10 30.64
 DLA 33.07 2 P 03 28.60 -1.1
 LDN 33.27 3 P 03 29.00 -2.5
 ELF 33.41 2 P 03 30.20 -2.5X
 SIV 33.54 139 P 03 31.00 -3.2X
 ANT 35.42 160 iPc+ 03 52.00 1.8
 GLD 35.86 330 e(P) 03 53.80 -0.2
 Z 18s 648.57um 7.4msz
 S 04 01.90
 GOL 35.89 330 P 03 54.00 -0.4
 PV09 37.01 325 P 03 45.70 -18.1X
 GLA 37.36 313 eP 04 09.00 2.4
 EMM 37.43 18 P 04 10.00 3.1X
 SLA 38.26 154 e(P) 04 16.50 2.2
 BAR 38.52 311 eP 04 17.00 0.7
 TPC 38.78 314 eP 04 21.00 2.5X
 MSU 38.79 322 P 04 19.10 0.4
 RSSD 38.83 336 ePd 04 17.20 -1.8
 PLM 38.99 312 eP 04 23.00 2.6X
 CBM 39.24 16 P 04 23.90 1.8
 PEC 39.47 313 e(P) 04 26.00 1.8
 S 04 31.20
 S 05 35.60
 RVR 39.67 313 eP 04 28.00 2.1
 GSC 39.93 315 ePc 04 28.59 0.5
 S 04 36.53
 S 10 37.07
 MWC 40.28 313 eP 04 35.00 3.9X
 BW06 40.28 329 P 04 33.00 1.9
 Z 18s 743.90um 7.6msz
 PAS 40.33 313 ePc 04 31.91 0.7
 S 04 40.19
 S 05 18.00
 S 05 58.00
 S 06 23.00
 S 07 20.00
 S 07 15.00
 S 10 24.20
 S 10 47.37
 S 14 06.57
 LR 16 11.00
 SBB 40.34 313 eP 04 29.00 -2.4X
 CLC 40.75 315 eP 04 40.00 5.2X
 ISA 41.28 314 ePc 04 40.24 1.1
 S 04 48.35
 S 10 56.06
 S 14 30.80
 ABL 41.42 313 P 04 43.60 3.1X
 SBC 41.59 312 ePc 04 42.75 1.2
 S 04 50.87

			eS	10 55.78				e	05 38.80				eSS	22 45.05			
TNP	41.71	318	eP	04 42.00	-0.8			i	05 42.40		MTE	72.79	51	eP	08 23.00	0.3	
	1.3s	306.12nm			5.9mb				05 48.90				i (pP)	08 27.00	13kmX		
RTRS	41.73	162	ePd	04 44.00	1.3	VGB	48.14	325	P	05 36.80			i	08 31.50			
SYP	41.82	312	eP	04 47.00	3.3X	DPW	48.20	329	P	05 33.40	-1.1	AVE	72.79	58	iP	08 22.00	-0.8
BCH	42.20	313	P	04 50.70	3.9X	CAI	48.51	108	eP	05 35.40	-1.9	TIO	72.95	61	iP	08 25.00	1.1
PHAM	42.74	313	P	04 51.20	0.2	PDCR	48.92	116	eP	05 35.00	-5.4X			i	08 48.50		
FRI	42.81	315	eP	04 50.90	-0.7				e	05 43.00				i	08 56.50		
KVN	42.82	319	P	04 54.20	2.3	COR	49.10	322	ePc	05 40.43	-0.9	EMON	73.06	48	eP	08 23.20	-1.0
BDF	42.98	126	ePc	04 53.45	0.1				ec	05 49.37		ERUA	73.15	49	eP	08 24.10	-0.6
			ec	05 09.51					ed	05 52.02		SVW	73.16	331	eP	08 23.90	-0.5
			ePP	06 48.91					eS	12 49.74		MVO	73.19	50	eP	08 24.70	-0.4
			eS	11 20.70		SHW	49.36	325	P	05 48.90	5.3X			i (pP)	08 28.40	12kmX	
			iSS	14 24.87		LON	49.45	326	ePc	05 42.99	-1.1			i	08 34.70		
PRI	43.07	314	eP	04 54.00	0.1				ec	05 51.10		RBA	73.26	57	iP	08 26.50	1.0
RTLL	43.12	162	ePd	04 53.50	-0.7				ePP	07 40.52				i	08 27.50		
RTBS	43.13	163	ePc	04 54.80	0.6				eS	12 55.37		EVAL	73.34	54	eP	08 24.90	-1.0
RTCB	43.16	162	ePd	04 54.20	-0.4				eSS	16 37.33		IMA	73.37	336	ePc	08 25.80	0.1
ZON	43.25	162	e(P)	04 54.40	-0.9	EDM	49.79	337	eP	05 44.00	-2.7X		1.6s	351.90nm		6.2mb	
CFA	43.44	161	eP	04 55.50	-1.3	PNT	49.85	329	ePd	05 45.00	-2.2	TTA	73.68	333	eP	08 29.90	2.4
LLA	43.49	314	eP	04 56.80	-0.4		1.2s	1082.00nm		6.7mb			1.5s	287.70nm		6.1mb	
PRS	43.66	314	eP	04 58.30	-0.2	BMA	49.89	131	eP	05 50.30	2.5X	EPLA	73.89	51	eP	08 28.90	-0.2
JACH	43.78	165	eP	05 02.00	2.4	LPA	50.33	153	iPc+	05 50.00	-0.9	CNIL	73.90	55	eP	08 30.50	1.4
CMB	43.80	316	ePc	04 59.30	-0.4		0.9s	672.27nm		6.6mb		GIBL	73.97	54	eP	08 31.50	1.9
			ec	05 06.59		Z	20s	147.52um		7.0MsZ		ECB	74.02	38	eP	08 28.00	-1.5
			eSS	14 58.95				iS	12 55.20			1.0s	104.00nm		5.8mb		
IHA	43.85	166	eP	05 01.00	1.1	GMW	50.45	326	P	05 49.80	-1.9	PLAT	74.13	55	eP	08 31.50	1.0
SAO	43.92	314	e(P)	05 00.00	-0.6	PGC	51.45	327	eP	06 02.00	2.8X	ALJ	74.25	55	eP	08 36.50	5.2X
LRM	43.92	330	eP	04 58.60	-2.2		1.2s	243.00nm		6.0mb		ECP	74.26	39	eP	08 30.00	-0.8
ROCH	43.95	165	eP	05 00.50	-0.6	FRB	54.96	8	eP	06 22.00	-3.1X		1.0s	174.00nm		6.0mb	
PEL	44.19	165	eP	05 02.00	-0.9	YKA	57.44	343	eP	06 38.60	-4.3X	EJIF	74.36	55	eP	08 31.70	-0.1
LCCH	44.29	166	eP	05 02.50	-1.1		0.7s	25.80nm		5.4mb		ETA	74.40	38	eP	08 31.00	-0.6
MHC	44.33	315	eP	05 04.60	0.5	PDA	58.48	52	iPd	06 52.00	1.5		1.0s	93.00nm		5.8mb	
GCC	44.43	314	eP	05 04.80	0.1	SIT	61.98	331	eP	07 17.50	3.3X	LIJA	74.41	54	eP	08 33.50	1.3
MDZ	44.45	163	P	05 07.00	2.0	Z	18s	371.00um		7.6MsZ		EHDR	74.53	53	eP	08 31.60	-1.2
			e	12 03.00		GDH	62.49	11	ePc	07 18.33	0.9	IFR	74.70	58	iPd	08 35.00	0.9
			i	15 47.00			1.0s	60.00nm		5.7mb				i	08 38.00		
SAN	44.49	165	eP	05 06.00	0.7				ec	07 23.96		DAG	74.86	12	iPd	08 31.70	-2.3
TACH	44.62	166	eP	05 05.50	-0.7				ed	07 30.58			1.0s	330.00nm		6.3mb	
PCH	44.69	165	eP	05 05.50	-1.4				ePP	09 44.32		SDN	74.94	325	eP	08 38.10	3.4X
LNV	44.79	166	eP	05 06.00	-1.6				ePP	11 16.03		Z	19s	112.30um		7.2MsZ	
PCC	44.92	314	eP	05 08.80	0.1				eScP	12 04.37		MAL	75.21	55	iPd	08 39.00	2.3
BKS	45.00	315	ePc	05 07.00	-2.3	MBO	64.65	79	iPd	07 35.20	2.7X			iS	18 19.00		
			id	05 20.00					iS	16 15.20		GUD	75.37	51	eP	08 37.10	-0.6
			e	05 55.00		INK	67.13	342	eP	07 45.00	-2.5X	TOL	75.45	51	eP	08 37.86	-0.2
			iPcP	06 34.00			1.1s	705.00nm		6.8mb				ed	08 42.25		
			iPP	06 54.00				pP	08 17.00	131kmX				iPP	11 33.00		
			iS	11 50.00		KLU	68.75	333	P	07 58.20	0.3			iPPP	13 27.00		
			e	12 10.00		REY	68.98	24	iP	08 00.90	1.8			eS	18 25.41		
			e	15 07.00		TOA	69.07	333	eP	08 00.10	0.3			eSKS	18 49.24		
			e	15 26.00		PFH	69.83	287	P	08 13.00	7.9X			iSS	23 18.00		
			eLQ	16 32.00		PMR	70.24	332	eP	08 06.80	0.0			iSSS	26 27.00		
			eLR	19 21.00			1.7s	535.40nm		6.4mb		BRW	75.67	341	eP	08 39.20	0.6
BKS	45.00	315	ePc	05 10.80	1.5	Z	18s	631.90um		7.9MsZ		EBAN	75.68	53	eP	08 38.10	-1.3
Z	20s	186.00um			7.0MsZ	SLKM	70.45	331	eP	08 07.50	-0.7	EAB	75.74	34	eP	08 42.50	3.2X
N	20s	313.00um						e	08 16.10				0.9s	142.00nm		6.0mb	
E	20s	242.00um				COL	70.69	336	ePc	08 08.77	-0.8	ECOG	75.88	54	eP	08 40.10	-0.6
			iPcP	06 36.00				ec	08 17.88		EGUA	75.89	54	eP	08 41.30	0.7	
			iPP	06 55.20				ed	08 22.01		AFC	75.89	54	eP	08 40.40	-0.4	
			iS	11 52.00		FBA	70.69	336	eP	08 09.60	0.1	JNW	75.92	19	eP	08 44.00	3.9X
			eScS	15 00.00			1.4s	531.20nm		6.5mb		AIA	76.04	172	eP	08 45.10	4.4X
			iLQ	15 48.00		AKU	71.04	23	iP	08 12.70	1.0	LKO	76.22	83	P	08 40.80	-2.0
			iLR	18 27.20			1.8s	1200.00nm		6.7mb		EAU	76.22	35	eP	08 43.60	1.6
BRK	45.01	315	eP	05 09.50	0.1			i	08 20.90		ESK	76.33	35	eP	08 42.50	-0.2	
Z	20s	478.00um			7.4MsZ	MTH	71.45	52	eP	08 16.00	1.3		1.0s	160.00nm		6.1mb	
			eS	11 00.00				i (pP)	08 19.60	12kmX	EKA	76.36	35	P	08 41.00	-1.8	
			i	15 30.00				i	08 24.00			1.3s	72.90nm		5.6mb		
			eLR	19 32.00		LIS	71.48	52	iPc	08 18.50	3.7X	EDI	76.37	35	ePd	08 42.70	-0.2
ZSP	45.05	315	e(P)	05 10.70	1.0	RSO	71.65	331	P	08 14.40	-1.3		1.2s	112.00nm		5.8mb	
ORV	45.32	317	eP	05 11.80	-0.1	VAL	71.85	38	iP	08 20.70	3.9X	EBL	76.45	35	eP	08 44.20	0.9
MIN	45.79	318	ePc	05 14.70	-1.1			S	17 36.00			1.0s	103.00nm		5.9mb		
SOB1	45.99	113	eP	05 14.90	-2.6X	EZAM	71.99	49	eP	08 16.20	-1.7	ECRI	76.58	48	eP	08 44.10	-0.3
			e	05 22.30		PTO	72.01	50	iPd	08 19.00	1.1	EHUE	76.63	53	eP	08 44.70	-0.2
			e	05 29.40				iS	17 36.00		EVIA	76.68	53	eP	08 45.40	0.3	
SES	46.71	336	eP	05 21.00	-1.7	MOE	72.09	53	eP	08 18.50	0.0	ESY	76.69	35	eP	08 45.60	0.9
1.3s	974.00nm				6.7mb			i (pP)	08 22.50	13kmX	ENIJ	76.97	54	eP	08 46.10	-0.6	
SCH	46.84	13	ePd	05 21.70	-1.9			i	08 27.50		TIC	77.18	85	P	08 46.04	-2.2	
1.3s	62.00nm				5.5mb	COI	72.10	51	iPd	08 20.00	1.5		1.4s	1434.00nm		6.9mb	
FFC	47.37	345	eP	05 26.00	-1.8	STS	72.14	48	eP	08 16.20	-2.5X	LIC	77.23	86	P	08 46.42	-2.1
1.0s	71.00nm				5.7mb	FAR	72.36	54	e(P)	08 36.00	15.9X		1.4s	1882.00nm		7.0mb	
FHC	47.59	318	eP	05 29.70	-0.1	FIG	72.47	54	eP	08 25.50	4.7X	KIC	77.49	86	P	08 47.88	-2.1
NEW	47.92	330	e(P)	05 28.20	-4.1X			i (PP)	08 29.00			1.4s	1400.50nm		6.9mb		
1.1s	425.93nm				6.4mb	KIP	72.58	289	ePc	08 24.09	2.4			S	18 44.00		
			i	05 33.60				ec	08 32.78		LPF	77.55	43	eP	08 48.10	-1.5	
VAO	48.01	133	eP	05 31.50	-1.8			eS	18 10.29		GRR	77.67	43	eP	08 48.80	-1.4	
			e	05 37.10				eSKS	18 33.13		BOH	77.67	48	P	08 55.00	4.5X	

22d 22h

ELYF	77.68	48 P	08 54.61	4.1X			e(SPP)20	56.50		OSS	85.23	44 ePc	09 31.30	1.1
MADF	77.81	48 P	08 53.42	2.2			e(SKKP31	49.00		GRF	85.46	41 ePc	09 31.00	-0.1
ISSF	77.83	48 P	08 52.81	1.4			e(P'P'35	47.00				e	09 32.00	
ECHE	77.83	52 eP	08 52.50	1.1	HAU	82.50	43 eP	09 14.60	-1.5			e	09 35.20	
ATE	77.90	48 P	08 56.23	4.6X		1.3s	197.45nm	6.1mb				eSKS	22 03.00	
FLN	77.91	42 eP	08 50.40	-1.2	CDR	82.56	47 ePd	09 16.90	0.4			i(S)	25 39.00	
	1.3s	507.70nm	6.5mb				e	09 20.90		MOX	85.55	40 iPc	09 32.00	0.5
LHE	77.96	48 P	08 56.34	4.2X			e	10 02.00			2.6s	2788.00nm	7.0mb	
ESCF	77.99	48 P	08 56.99	4.8X			e	12 38.00		Z	22s	500.00um	7.9Msz	
ANM	78.01	334 eP	08 55.70	3.9X	BNS	82.72	40 iPd	09 21.30	4.2X	SAL	85.67	45 P	09 32.30	0.2
OGE	78.06	48 P	08 53.18	0.6		1.7s	964.00nm	6.7mb		FUR	85.75	42 eP	09 33.20	0.6
JAU	78.14	48 P	08 54.35	1.2	Z	20s	357.00um	7.7Msz		Z	22s	723.00um	8.0Msz	
LDF	78.15	42 eP	08 51.40	-1.5	BSF	82.82	43 eP	09 16.00	-1.9	MOTA	85.77	43 iPc	09 31.90	-1.0
MFF	78.18	44 eP	08 51.70	-1.4	LOMF	82.89	43 P	09 18.29	0.0			i	09 33.50	
EGRA	78.22	49 eP	08 56.50	3.2X	RSL	82.94	45 P	09 18.88	0.2			i	09 37.00	
BTH	78.26	48 Pc	08 54.00	0.4	LRG	83.01	47 eP	09 17.90	-0.9			i	09 48.70	
		iPp	08 58.60	15kmX		1.3s	169.25nm	6.1mb		SOTA	85.86	43 iPc	09 32.70	-0.6
		PcP	09 02.00		ECH	83.02	42 P	09 19.11	0.3		1.3s	267.00nm	6.3mb	
		pPcP	09 05.60		RGS	83.04	27 eP	09 18.00	-0.5			i	09 34.00	
		sPcP	09 12.90		LPL	83.04	45 eP	09 18.20	-1.0			i	09 37.60	
		PP	12 08.00		MOF	83.04	43 P	09 18.77	-0.3			i	09 49.30	
		ePPP	14 07.50		BNI	83.05	46 P	09 20.00	0.8	8DI	85.97	46 P	09 33.30	-0.5
		SKS	19 05.00		LPG	83.05	45 eP	09 18.30	-1.1	MME	86.02	46 P	09 35.00	0.7
		SP	19 37.50			1.3s	225.65nm	6.2mb		WTTA	86.14	43 iPc	09 33.90	-0.9
		i	23 16.20		KONO	83.07	31 ePd	09 25.15	6.4X			i	09 35.40	
		e(sSSS)24	23.00				ed	09 35.57				i	09 38.90	
EPF	78.66	48 eP	08 55.10	-0.8	CDF	83.07	42 P	09 19.15	0.0	BRN	86.21	38 ePd	09 36.00	1.3
	1.4s	748.75nm	6.5mb		ABH	83.08	41 eP	09 17.57	-1.5			ed	09 40.00	
EROO	78.83	50 eP	08 56.90	0.1	EMS	83.11	45 ePc	09 20.20	0.6	CLL	86.30	39 iP	09 34.40	-0.8
LFF	78.87	46 eP	08 55.70	-1.2	WLS	83.12	42 P	09 19.43	0.0		1.8s	1400.00nm	6.8mb	
LPO	79.19	46 eP	08 57.40	-1.3	LMR	83.13	47 eP	09 18.00	-1.5	Z	20s	290.00um	7.7Msz	
MLS	79.21	48 P	09 03.51	4.6X	RRL	83.14	46 P	09 20.71	0.9			eSKS	20 08.00	
LSF	79.36	45 eP	08 57.90	-1.7	FRF	83.21	47 eP	09 18.30	-1.6			eS	20 23.00	
RJF	79.40	46 eP	08 58.50	-1.3	ILT	83.22	338 iPc	09 20.00	0.6			P'P'	35 47.00	
CAF	79.81	46 eP	09 00.70	-1.4			iS	19 43.00		CTI	86.37	44 P	09 34.40	-1.4
TCF	79.83	45 eP	09 00.30	-1.8	GWF	83.23	42 P	09 19.62	-0.3	FIR	86.49	46 eP	09 36.00	-0.2
MAF	80.08	45 eP	09 01.80	-1.7	MUD	83.25	34 iPc	09 20.40	0.7			iS	20 14.00	
BGF	80.25	44 eP	09 02.60	-1.7		1.1s	170.00nm	6.2mb		WET	86.62	41 eP	09 35.60	-1.3
ETER	80.56	49 e(P)	09 06.70	0.6			i	12 44.20		MAO	86.64	48 P	09 39.20	2.1
FRO	80.58	29 eP	09 09.90	4.2X	BBS	83.34	43 P	09 20.51	0.0	PGD	86.80	46 P	09 37.02	-1.0
AVF	80.58	44 eP	09 04.20	-1.9	LSD	83.34	45 P	09 21.94	1.1	SFI	86.88	46 P	09 37.00	-1.2
FOO	80.66	29 eP	09 09.94	3.8X	CALN	83.36	47 P	09 23.65	2.8X	CRE	87.01	46 P	09 38.20	-0.8
SSF	80.67	44 eP	09 04.40	-2.1	STR	83.37	42 P	09 20.36	-0.2	UPP	87.02	30 iP	09 36.60	-1.9
ASK	80.80	30 eP	09 11.00	4.1X	PZZ	83.42	46 P	09 21.63	0.5			i	09 42.00	
ESEL	80.80	51 e(P)	09 07.80	0.4	DIX	83.44	44 ePc	09 22.80	1.4			iPP	13 15.20	
BER	80.87	30 eP	09 11.00	3.7X	RSP	83.45	45 P	09 22.66	1.4			i	19 12.00	
LOR	80.89	44 eP	09 05.80	-2.0	DOI	83.52	46 P	09 22.70	1.1			iSKS	20 00.00	
	1.3s	253.85nm	6.1mb		MVIF	83.53	47 P	09 22.81	1.1	FVI	87.04	43 P	09 38.70	-0.1
SMF	80.93	44 eP	09 06.10	-1.8	TOUF	83.58	47 P	09 23.16	1.1	KHC	87.08	41 P	09 37.90	-1.2
SNF	80.93	40 P	09 09.00	1.2	STV	83.61	46 P	09 22.25	0.2	N	20s	154.80um		
UCC	80.96	40 P-	09 12.00	4.1X	TNS	83.61	40 ePc	09 20.10	-1.8			i	09 43.50	
		i	09 24.00		FEL	83.63	43 P	09 20.43	-1.6			S	20 20.00	
		e	12 30.00		AURF	83.66	47 P	09 23.65	1.4	RSM	87.31	46 P	09 44.80	4.6X
		iS	19 24.00		NB2	83.68	29 P	09 20.80	-1.1	KBA	87.32	43 iPc	09 37.80	-2.7X
		SS	24 48.00		ENR	83.68	46 P	09 23.07	0.7		1.5s	825.00nm	6.8mb	
LBF	80.99	44 eP	09 06.00	-2.3	REVF	83.70	47 P	09 22.68	0.2			i	09 40.60	
DOU	81.16	41 P	09 08.00	-1.0	AUTN	83.72	47 P	09 22.29	-0.4			i	09 44.20	
	1.3s	585.70nm	6.5mb		SBF	83.74	47 eP	09 21.40	-1.2			iPP	13 09.10	
		id	09 14.00		SAOF	83.81	47 P	09 22.83	-0.1			i	13 16.20	
		S	19 23.00		MMK	83.83	44 ePc	09 25.00	1.7	PRU	87.52	40 P	09 40.50	-0.6
RAR	81.29	247 P	09 13.00	2.8X	ORO	83.90	45 P	09 24.00	0.5		2.0s	949.20nm	6.7mb	
		S	19 28.00		ZLA	83.93	43 ePc	09 24.20	0.7	Z	21s	834.50um	8.1Msz	
DBN	81.37	39 iP-	09 13.00	3.0X	SLE	83.96	43 ePc	09 23.90	0.3			e	09 45.80	
	Z	20s	315.00um	7.7Msz	ROB	83.99	46 P	09 24.20	0.3			i	09 55.10	
		eS	19 20.00		FIN	84.24	46 P	09 25.22	0.1			PP	12 56.00	
		eSPP	20 44.00		CKI	84.27	46 P	09 25.70	0.5			i	13 20.00	
		eSS	24 30.00		STU	84.29	42 ePd	09 24.00	-1.2			S	20 15.00	
		eSSS	28 00.00			2.0s	117.65nm	5.8mb		KMR	87.65	42 iP-	09 46.40	4.6X
KBS	81.53	11 eP	09 12.00	1.5	LLS	84.42	44 ePc	09 27.50	1.3	ARV	87.74	46 P	09 41.80	-0.6
SSB	81.53	45 P	09 11.64	0.5	PCP	84.44	46 P	09 25.84	-0.3	TRI	87.88	44 P	09 42.20	-0.7
ENN	81.95	40 ePc	09 12.50	-0.6	ADK	84.68	322 eP	09 27.90	0.8	RMP	87.89	48 P	09 48.00	4.9X
	1.1s	340.00nm	6.3mb			1.4s	1379.60nm	7.0mb		VOY	87.90	44 eP	09 43.50	0.3
		ePP	12 32.00			Z	22s	108.10um	7.2Msz			i	09 47.40	
		e(SPP)20	54.00		VDL	84.80	44 ePc	09 28.60	0.5	PTS	88.29	53 P	09 51.80	6.7X
		e(PKKP27	57.00		HFS	85.04	30 eP	09 26.70	-2.0	AOU	88.29	47 P	09 45.70	0.6
		e(SKKP31	47.00			0.9s	71.60nm	5.9mb		CEY	88.33	44 eP	09 46.00	0.8
MEM	82.02	40 Pc	09 14.10	0.7		Z	18s	380.10um	7.8Msz	LJU	88.34	44 eP	09 45.00	-0.2
		P'P'	35 54.40				e	09 32.20				i	09 49.60	
WLF	82.20	41 iPd	09 15.00	0.6			e	09 39.50				ePP	13 10.00	
WIT	82.21	38 eP	09 15.00	0.6			e	09 42.40				eS	20 28.00	
		e	19 36.00				LR	36 45.00		RIY	88.38	44 eP	09 45.30	-0.1
		e(SPP)20	57.00		BOB	85.04	46 P	09 29.30	0.1	AZI	88.39	48 P	09 46.40	0.9
VITF	82.23	42 P	09 16.74	2.1	PGF	85.05	48 eP	09 28.00	-1.3	ERC	88.53	52 (P)	09 49.92	3.6X
WTS	82.38	39 eP	09 15.50	0.2	PGF	85.05	48 P	09 32.17	2.9X	SOD	88.54	21 iP	09 43.00	-2.7X
	1.1s	518.00nm	6.6mb		TRO	85.14	20 eP	09 31.60	2.6X		1.0s	104.00nm	6.1mb	
		ePP	12 36.00		COP	85.17	34 iP	09 32.00	2.6X			i	09 51.20	
		e	19 36.50			0.9s	309.24nm	6.5mb				e	10 52.00	

		e	11	42.00		FNA	94.48	48	ePd	10	15.46	1.6			eScP	18	05.00		
		e	13	24.00		TNR	94.99	42	ePc	10	19.00	2.9X			ePcS	18	11.00		
SDI	88.73	48 P	09	47.20	0.0	GRG	95.17	47	ePd	10	17.78	0.8			eScS	21	37.00		
CVT	88.75	52 P	09	52.40	5.1X	VAY	95.18	47	iP	10	21.30	4.3X			iPSP	22	19.00		
USI	88.85	51 P	09	53.50	5.8X	VTG	95.25	45	iPc	10	14.00	-3.5X	WEL	105.45	230	ePdiff	11	10.00	7.0X
VBV	88.95	44 ePc	09	49.70	1.6	KKB	95.38	46	eP	10	19.00	1.1			PP	15	30.00		
		i	09	53.00		KNT	95.47	47	iPc	10	23.06	4.7X			PPP	17	46.00		
VKA	89.03	41 eP	09	49.00	0.5	LIT	95.49	48	ePd	10	21.86	3.4X			SKS	21	48.00		
	8.0s	*****nm			7.3mb X	CMP	95.63	42	ePc	10	20.00	1.0			PS	24	36.00		
		i	09	53.30		MTUR	95.66	42	eP	10	28.00	8.8X	HLW	105.74	55	ePdiff	11	10.00	5.4X
		i	10	04.30		THE	95.68	47	ePd	10	24.54	5.3X			ePP	14	58.00		
		LR	44	00.00		AGG	95.69	49	ePc	10	20.46	1.0			eS	21	34.00		
PTJ	89.34	44 eP	09	49.80	-0.3	SOH	95.90	47	ePd	10	20.70	0.3	BHL	107.54	50	Pdiff	11	14.00	1.3
ZAG	89.37	44 iPd	09	55.20	5.1X	PGB	95.93	45	eP	10	27.00	6.5X			PP	15	54.00		
		iS	21	43.00		SRS	95.98	47	ePc	10	24.62	3.9X			SKS	21	53.00		
MCT	89.42	52 P	09	57.30	6.6X	TIK	96.13	350	eP	10	19.00	-1.7	YSS	110.40	328	ePdiff	11	26.00	1.1
FAI	89.52	52 P	09	58.30	7.3X	MLR	96.15	42	iPc	10	22.00	0.5	LSZ	112.88	103	ePKP	15	34.00	2.2
ZST	89.56	41 iP	09	50.80	-0.1				e	22	00.00				i	15	43.00		
Z	21s	677.80um			8.0MsZ				e	27	16.00				e	15	56.00		
		i	09	55.40					e	35	26.00				i	26	10.50		
		i	10	06.50		CVO	96.19	42	ePc	10	39.50	17.9X			i	26	18.30		
		i (PP)	13	35.70		PAIG	96.41	48	ePc	10	26.94	4.3X	SLR	113.33	114	iPdiff	11	50.00	11.3X
GIB	89.65	52 P	09	56.60	4.9X	PLD	96.45	45	eP	10	27.00	4.2X			1.5s	27.78nm			
SMY	90.02	324 eP	09	55.90	2.9X	PVL	96.52	44	iPd	10	22.00	-1.0	Z	17s	65.31um			7.3MsZ	
		Z	18s	119.00um	7.4MsZ	VRI	96.53	41	ePd	10	23.00	-0.1	BUL	113.55	108	ePKP	15	33.50	0.4
NUR	90.19	28 iP	09	53.20	-0.4	RZN	96.60	46	iP	10	25.00	1.3			ePKP	26	21.50		
	1.1s	79.20nm			5.9mb	BUC	96.63	43	iPd	10	27.00	3.5X	KER	115.62	45	ePKP	15	47.00	10.3X
		i	10	04.40		ISR	96.67	42	ePd	10	33.50	9.7X	DRV	116.11	198	Pdiff	11	58.00	8.1X
		e	11	08.00					e	27	23.00				PP	16	51.00		
		e	12	04.00		KDZ	97.10	46	eP	10	30.00	4.3X			SKS	25	00.00		
		e	13	32.00		JMB	97.64	45	eP	10	33.00	4.9X			S	26	56.00		
HVAR	90.31	46 eP	09	54.40	-0.1	CFR	97.72	42	eP	10	31.00	2.6X			SS	32	16.00		
KAF	90.36	26 eP	09	54.00	-0.4				e	35	22.00		MTD	116.23	104	ePKP	15	38.30	0.1
	1.0s	100.50nm			6.0mb	ALN	97.80	46	ePc	10	31.78	2.9X			e	26	12.80		
		esP	09	58.00		OBN	98.27	30	iP	10	30.00	-0.6	MAW	117.86	166	e(PKP)	15	45.00	5.3X
SRO	90.44	41 eP	09	55.30	0.3	Z	24s	10.00um				6.2MsZ			0.9s	21.00nm			
Z	22s	485.20um			7.9MsZ	N	24s	2.50um					IRK	117.97	355	ePdiff	12	04.00	5.5X
		i	09	59.50		E	24s	3.20um					MDJ	118.41	334	PKP	15	35.00	-6.4X
		i	10	09.50					e	13	53.00		Z	60s	143.00um			7.1MsZ	
		i	13	35.70					ePP	14	36.00		N	18s	205.00um				
MEU	90.54	52 P	10	02.62	6.8X				ePPP	16	26.00		E	18s	182.00um				
PZI	90.54	52 P	10	03.48	7.7X				iSKS	21	05.00		MAJO	119.84	322	ePKP	15	52.39	7.9X
	1.3s	232.00nm			6.3mb				iSKKS	21	21.00				eHPP	17	14.33		
APA	90.81	20 iPd	09	58.10	1.8				eS	21	50.00				iPP	17	14.61		
KRA	90.88	39 eP	09	57.90	0.9				iPS	23	25.00		MAT	119.84	322	ePKP	15	32.00	-12.5X
	1.5s	1484.00nm			7.1mb				iSS	28	48.00		RYD	120.20	54	PKP	15	44.50	-1.0
		i	10	04.00					iSSS	32	25.00		CN2	120.80	336	Pdiff	12	13.00	1.7
		i	10	06.50		PSN	98.30	43	iPc	10	35.00	4.0X	CN2	120.80	336	PKP	15	38.00	-8.0X
		i	10	11.80		PET	98.57	327	eP	10	31.00	-1.0			9.0s	8700.00nm			
BUD	90.99	42 e(P)	09	57.00	-0.6				eS	21	10.00		N	18s	207.00um				
GMB	91.02	51 P	10	03.83	5.7X	SPA	99.62	180	iPd	10	41.50	4.8X	E	18s	67.00um				
	0.7s	23.40nm			5.6mb				1.0s	28.50nm		5.8mb	ARO	122.26	70	ePKP+	15	56.50	6.8X
TDS	91.04	50 P	09	58.50	0.5	Z	20s	3.38um				5.0MsZ	MAIO	122.27	36	ePKP	15	49.00	-0.2
GRI	91.30	50 P	10	02.44	3.2X				i	14	58.50				i	17	22.00		
	1.9s	345.10nm			6.4mb	KCT	99.68	46	eP	10	42.00	4.6X			eS	29	34.00		
SPC	91.31	40 eP	10	00.70	1.4	ITU	99.83	45	iPd	10	40.00	2.0	CSY	122.71	186	ePKP	15	59.00	10.1X
Z	22s	1425.90um			8.4MsZ	DST	100.11	47	ePdiff	10	44.00	4.6X	SNY	123.20	336	Pdiff	12	24.00	2.0
		i	10	13.90		YLV	100.28	46	ePdiff	10	41.90	1.7	SNY	123.20	336	PKP	15	48.00	-2.6X
		ePP	13	46.20		HRT	100.39	45	ePdiff	10	44.00	3.3X			8.0s	9190.00nm			
BRT	91.40	48 (P)	10	04.12	4.5X	NVL	100.70	160	ePdiff	10	40.00	-1.2	Z	20s	72.10um			7.3MsZ	
PSZ	91.44	41 iP	10	00.90	1.2				i	10	48.00		E	20s	252.00um				
LCI	92.09	49 P	10	09.20	6.5X				i	10	56.00				PP	17	28.00		
BEQ	92.68	44 eP	10	09.50	4.1X				e	11	38.00				SKS	22	56.00		
UZH	92.77	40 iPd	10	10.00	4.3X				e	12	22.00				SS	34	10.00		
LACI	93.03	47 eP	10	08.70	1.7				e	13	24.00		FRU	123.90	20	ePdiff	12	32.00	6.8X
CEI	93.16	41 eP	10	21.00	13.5X				ePP	14	54.00		FRU	123.90	20	iPKP	15	56.00	3.9X
TIR	93.22	47 eP	10	12.50	4.5X				iPP	15	07.00		TLG	124.37	17	ePdiff	12	45.00	18.1X
		iS	21	08.00					ePPP	16	24.00		SHK	124.49	324	ePdiff	12	43.00	14.9X
PHP	93.54	47 iPc	10	10.60	1.2				eSKS	20	57.00		BRS	124.65	243	i(Pdiff)	12	19.30	-9.7X
TPE	93.61	48 eP	10	10.00	0.2				iSKKS	21	22.00		BRS	124.65	243	ePKP	15	56.00	2.0
OHR	93.96	47 eP	10	07.30	-4.2X				eS	22	05.00				e(pPKP)	16	05.00		
	2.0s	909.00nm			6.8mb				iPS	23	48.00				e(ScSP28)	00.00			
		i	10	16.40					iPPS	24	26.00				eSKKS	33	00.00		
		i	10	21.20					iSS	29	24.00		COO	124.94	239	ePKP	15	56.00	1.5
		i	10	26.60					iSSS	32	32.00				i	16	06.20		
DEV	94.01	42 ePc	10	17.00	5.5X	NRI	100.87	3	ePdiff	10	42.00	0.0	GAR	125.60	25	iPKP	16	01.00	5.3X
IGT	94.06	49 ePd	10	16.82	4.9X	KHL	101.23	48	ePdiff	10	48.00	3.5X			i	16	09.00		
MNK	94.07	34 eP	10	11.00	-0.5	SIM	101.67	40	ePdiff	10	50.00	3.8X			iPP	16	29.00		
LSK	94.09	48 eP	10	14.70	2.6X	ELL	102.10	49	ePdiff	10	52.00	3.5X			iSKP	19	28.00		
SKO	94.18	46 eP	10	11.10	-1.3	BCK	102.34	48	ePdiff	10	53.00	3.6X			iSKS	24	49.00		
		N	15s	90.63um		SBA	103.61	192	iPdiff	11	13.10	19.0X			iPS	27	33.00		
		E	15s	63.64um		YAK	104.10	345	ePdiff	10	57.20	0.7			iSS	34	33.00		
		iPcP	10	17.00					iPP	12	29.00		CNB	126.00	233	ePKP	15	57.00	0.5
		i	10	21.00					iPcP	14	04.00				i	16	07.30		
		iPP	13	59.00					eS	14	57.00				e	20	20.00		
		iSKS	20	35.00					iSS	15	49.00				e	21	49.00		
		iS	20	54.00					iSSS	17	11.00				i	26	18.40		

WMO	126.09	8	ePKP	15 56.87	0.5	E	20s	138.00um	sPKP	16 24.00		KNA	148.39	256	ePKP	16 37.00	-0.5						
E	18s	433.00um							PP	18 48.00		QIZ	148.75	336	ePKP	16 38.00	0.0						
			ed	16 10.36					PKS	19 44.00		N	18s	146.00um									
			ePP	17 47.27					PPP	21 30.00		E	18s	86.60um									
			iSKP	19 05.49					SKS	23 32.00					e	16 41.50							
			eSKS	23 15.33					PS	28 48.00		COOL	149.14	223	ePKP	16 41.00	2.6X						
			eSKKS	24 39.42					i	30 48.00		RKG	149.53	214	iPKPc	16 42.30	3.5X						
DL2	126.47	336	PKP	16 00.00	2.9X				SS	36 08.00		GBA	149.84	40	PKPd	16 37.60	-2.1						
N	24s	150.00um				NJ2	133.50	334	ePKP	16 09.00	-1.7		1.4s	40.10nm									
E	20s	160.00um					9.0s	9400.00nm				NWAO	150.24	216	ePKP	16 40.40	0.5						
			PP	17 59.00			N	17s	103.00um					e	21 09.00								
CRZF	127.04	142	ePdiff	12 54.00	15.0X		E	18s	95.00um			KLB	150.87	219	ePKP	16 45.00	4.1X						
			ePP	17 59.00					PP	18 43.00		MUN	151.52	216	ePKP	16 42.00	0.1						
			eS	26 27.00					SS	36 18.00				e	21 12.40								
			eSS	31 09.00					PKP	16 11.00	-0.8	CHG	151.61	356	ePKP	16 42.00	-0.4						
GUA	127.08	295	ePdiff	12 55.00	15.0X	LZH	134.01	352	PKP			BAL	152.20	219	ePKP	16 47.70	4.8X						
GUA	127.08	295	e(PKP)	16 00.20	1.2	N	20s	430.30um				KOD	152.32	45	ePKP	16 48.40	4.5X						
KSH	127.38	20	PKPd	16 02.00	3.0X	E	20s	222.80um				LOE	152.67	350	ePKP	16 44.00	0.1						
E	18s	300.00um							sPKP	16 24.00		BDT	153.17	356	ePKP	16 45.20	0.7						
BJI	127.41	341	Pdiff	12 48.00	7.1X				PP	18 40.00				1.0s	291.90nm								
BJI	127.41	341	ePKP	15 57.51	-1.4				PKS	19 45.00		MEKA	153.52	228	ePKP	16 45.00	0.1						
N	19s	401.00um							SKS	23 19.00		NST	154.61	353	ePKP	16 56.00	9.5X						
			ed	16 12.16					SKKS	25 25.00		TSM	154.81	302	ePKPc	16 54.00	7.1X						
			ePP	18 00.00					S	26 44.00		MBL	155.19	240	ePKP	16 43.00	-4.2X						
			ePKS	19 33.00					PPS	30 50.00		KKM	155.23	308	ePKPc	17 03.00	15.4X						
			eSKS	24 52.00					SS	36 12.00		KHT	155.63	356	ePKP	16 52.40	4.4X						
			eSS	35 06.00					e(PKP)	16 10.20	-2.1	SNG	162.85	347	ePKP	16 58.40	2.3						
HHC	127.94	346	PKPd	16 00.20	0.2	ADE	134.36	230							e	20 16.40							
Z	26s	366.00um			7.9MsZ	XAN	135.05	346	ePKP	16 08.00	-5.7X				e	21 33.80							
N	20s	223.00um					8.0s	7400.00nm							e	24 32.40							
E	17s	97.80um				N	22s	137.00um				TRT	164.35	276	ePKPc	17 03.00	5.4X						
			PP	18 00.00		E	22s	254.00um				BSI	164.83	6	ePKP	17 06.00	8.0X						
			SKS	23 08.00					PP	18 46.00		KGM	166.75	331	ePKP	17 06.00	6.4X						
TOO	128.31	229	ePKP	16 00.00	-0.8	WHN	136.64	338	PKPc	16 15.00	-1.7				S.D. = 1.2 on 432 of 630 obs.								
			i	16 11.00		Z	20s	127.00um															
			i	26 23.00		E	18s	95.00um															
			i	27 42.00					PP	18 55.00													
			i	38 35.20					iSS	37 02.00													
RMO	128.33	244	ePKP	16 00.00	-1.1	NDI	137.37	26	ePKP	16 10.00	-8.2X												
			i	16 10.70					e	19 06.00													
			e	27 41.00					e	31 16.00													
			e	28 39.00		QIS	137.53	250	e(PKP)	16 08.00	-10.7X												
			e	16 01.00	-0.2				i	16 17.50													
									i	26 41.00													
									e	27 59.00													
			PP	18 07.00		LSA	140.45	8	PKP	16 21.80	-2.6X												
			SS	35 15.00		N	18s	89.60um				UPA	3.92	105	(P)	09 09.20	54.2X						
						E	20s	94.00um				GCM	9.43	12	(P)	09 37.50	5.2X						
												III	17.67	300	(P)	11 25.30	3.8X						
												BLA	27.22	5	iP	13 01.90	2.5						
													1.0s	55.00nm		5.2mb							
												FVM	28.57	348	iP	13 12.10	0.5						
													1.0s	38.00nm		5.1mb							
	</																						

LPO	79.19	46 eP	19 20.30	0.1	LRM	43.60	331 eP	16 39.40	1.1	BSF	83.01	43 eP	20 58.20	-0.8
LSF	79.34	45 eP	19 20.80	-0.2	MHC	43.93	315 e(P)	16 43.00	2.0		1.0s	28.00nm		5.4mb
RJF	79.39	46 eP	19 21.30	0.0	ORV	44.93	318 eP	16 55.10	6.2X	CDF	83.26	42 eP	20 59.50	-0.7
CAF	79.80	46 eP	19 23.80	0.2			ePcP	18 29.00			1.0s	22.00nm		5.3mb
TCF	79.81	45 eP	19 23.30	-0.3	SES	46.41	336 eP	17 01.00	0.6	LPG	83.26	45 eP	21 00.80	0.2
	0.8s	9.40nm		4.8mb	SCH	46.81	13 eP	17 03.00	-0.5		1.1s	13.45nm		5.1mb
MAF	80.06	45 eP	19 24.70	-0.2	FFC	47.14	345 eP	17 05.00	-1.0	LMR	83.36	47 eP	21 00.70	0.0
	1.1s	22.00nm		5.0mb		1.0s	55.00nm		5.6mb	MUD	83.37	34 ePd	21 03.50	3.0X
BGF	80.23	44 eP	19 25.60	-0.2	FHC	47.21	318 eP	17 14.20	7.3X		1.6s	46.00nm		5.4mb
	0.9s	22.10nm		5.1mb	VAO	48.41	133 eP	17 16.80	0.3	FRF	83.43	47 eP	21 00.70	-0.4
AVF	80.56	44 eP	19 27.00	-0.5			e	17 20.90			0.7s	6.60nm		5.0mb
	0.9s	9.85nm		4.8mb	EDM	49.50	337 iPc	17 23.60	-0.9	NB2	83.77	29 P	21 01.90	-0.6
SSF	80.64	44 eP	19 27.30	-0.7		0.7s	83.00nm		5.8mb		1.2s	46.80nm		5.6mb
	0.8s	9.40nm		4.8mb	BMW	49.73	325 P	17 26.40	0.0	ADK	84.31	322 ePc	21 06.10	0.8
LOR	80.87	44 eP	19 28.50	-0.7	GMW	50.10	326 eP	17 27.50	-1.7		0.9s	108.33nm		6.1mb
	0.8s	14.80nm		5.1mb	MCW	50.79	327 P	17 33.10	-1.3	HFS	85.13	30 eP	21 08.00	-1.3
SMF	80.91	44 eP	19 28.70	-0.7	YKA	57.19	343 eP	18 19.50	-1.7		1.0s	25.30nm		5.4mb
HAU	82.47	43 eP	19 37.30	-0.2		0.9s	35.40nm		5.4mb	PGF	85.28	48 eP	21 10.30	-0.2
	0.9s	9.85nm		4.9mb	INK	66.87	342 eP	19 26.00	0.0	GRF	85.64	40 ePc	21 12.60	0.5
BSF	82.79	43 eP	19 38.80	-0.5		1.1s	140.00nm		6.1mb	MOX	85.72	39 eP	21 12.50	0.0
CDF	83.04	42 eP	19 40.20	-0.3	KLU	68.43	333 ePc	19 35.60	-0.4	CLL	86.46	39 iP	21 16.50	0.4
FRF	83.21	47 eP	19 41.70	0.3	TOA	68.75	333 eP	19 38.50	0.5		1.7s	90.00nm		5.7mb
	0.8s	10.75nm		5.1mb	PMR	69.92	332 ePc	19 45.10	0.1	WET	86.80	41 iPc	21 18.30	0.5
NB2	83.55	29 P	19 42.80	0.0		1.4s	67.20nm		5.6mb	UPP	87.12	30 iP	21 17.90	-1.2
	1.0s	18.60nm		5.3mb	FBA	70.39	336 ePc	19 47.70	-0.1	KHC	87.25	41 P	21 20.30	0.3
ADK	84.25	322 eP	19 46.30	-0.2		0.6s	26.40nm		5.5mb	KBA	87.51	43 iP	21 20.80	-0.7
HFS	84.91	30 eP	19 48.50	-1.1	PDB	71.88	330 eP	19 55.80	-1.1		1.4s	62.50nm		5.7mb
	1.4s	56.40nm		5.6mb	SVW	72.84	331 ePc	20 01.80	-0.8		i		21 32.00	
		e	19 53.70		IMA	73.08	336 ePc	20 04.00	-0.1		i		27 43.00	
		e	19 58.70			0.7s	19.80nm		5.3mb		i		32 13.60	
GRF	85.41	40 eP	19 53.00	0.6	TTA	73.37	333 ePc	20 05.20	-0.5	PRU	87.69	40 eP	21 22.50	0.5
MOX	85.50	40 eP	19 52.60	-0.2		1.8s	166.80nm		5.8mb	SOD	88.57	21 eP	21 22.00	-4.0X
CLL	86.24	39 iP	19 56.70	0.3	CNIL	74.17	55 eP	20 11.50	0.7	SMY	89.66	324 e(P)	21 32.80	1.4
	1.4s	50.00nm		5.5mb	PLAT	74.41	55 eP	20 13.50	1.3	ZST	89.74	41 iP	21 36.00	4.1X
WET	86.58	41 iPc	19 58.90	0.7	LIJA	74.67	54 eP	20 13.50	-0.4	ZST	89.74	41 iP	21 31.80	-0.1
UPP	86.90	30 iP	19 58.10	-1.3	BRW	75.40	341 eP	20 17.40	0.2	NUR	90.27	28 eP	21 36.00	2.0
KHC	87.03	41 iPd	20 01.00	0.6	TOL	75.70	51 eP	20 20.50	0.9		e		21 44.00	
KBA	87.29	43 iP	20 01.50	-0.4	LKO	76.62	82 Pc	20 25.08	-0.1	SPC	91.48	40 eP	21 40.60	0.5
	1.4s	62.50nm		5.7mb		1.0s	76.50nm		5.7mb	NWAO	150.09	217 ePKP	28 26.00	6.2X
		i	21 20.80		TIC	77.59	85 P	20 30.36	-0.2	KLB	150.70	219 iPKPd	28 27.20	6.4X
		i	21 32.00		LIC	77.64	86 P	20 30.90	0.0		S.D. = 0.9 on 87 of 100 obs.			
PRU	87.46	40 eP	20 02.50	0.1		0.9s	493.50nm		6.6mb X		APR 22, 1991 22h 19m 25.61±0.30s			
ZST	89.52	41 eP	20 12.30	0.0	ANM	77.70	334 eP	20 30.80	0.6		9.915 N ± 5.1km	83.413 W ± 6.3km		
MAW	118.25	166 ePKP	26 15.00	13.1X	LPF	77.74	43 eP	20 30.30	-0.4		DEPTH = 10.0km (geophysicist)			
	1.0s	26.00nm				1.2s	38.70nm		5.4mb		5.4mb (43 obs.)			
Z	21s	72.00um		7.3mszX	GRR	77.85	43 eP	20 31.00	-0.4		COSTA RICA		(78)	
NWAO	150.31	217 ePKP	27 06.90	5.3X		1.0s	44.00nm		5.5mb		MD 5.4 (SJR). Felt.			
KLB	150.93	219 iPKPc	27 07.90	5.4X	KIC	77.91	86 Pc	20 32.30	0.0	UPA	3.94	103 (P)	20 08.00	-19.4X
	0.8s	138.00nm				1.0s	47.50nm		5.5mb	ANCC	9.09	134 eP	21 40.07	0.1
MUN	151.60	217 ePKP	27 10.00	6.5X	FLN	78.10	42 eP	20 32.50	-0.2	HOOC	9.29	133 eP	21 45.49	2.6X
BAL	152.26	219 ePKP	27 10.80	6.3X	LDF	78.34	42 eP	20 33.80	-0.2	GCM	9.52	12 eP	21 49.00	3.1X
	S.D. = 0.8 on 54 of 62 obs.					1.0s	38.00nm		5.4mb	PURC	10.30	137 ePc	21 57.62	0.6
	APR 22, 1991 22h 08m 31.92±0.40s				MFF	78.39	44 eP	20 34.10	-0.2	SDV	12.65	94 eP	22 29.40	0.7
	9.820 N ± 7.4km	83.505 W ± 6.7km				1.0s	36.00nm		5.4mb	TOV	13.42	89 eP	22 38.60	-0.2
	DEPTH = 10.0km (geophysicist)				EPF	78.89	48 eP	20 37.40	0.1	HBF	23.08	7 ePc	24 34.80	2.4
	5.4mb (42 obs.)					1.0s	32.00nm		5.3mb	PRM	24.07	2 eP	24 43.90	1.8
COSTA RICA		(78)			LFF	79.08	46 eP	20 38.00	-0.2	JSC	24.33	4 e(P)	24 46.00	1.5
Felt.						1.3s	65.00nm		5.5mb	TKL	25.63	359 P	24 58.60	1.6
					LPO	79.41	46 eP	20 39.80	-0.2	GBTN	25.64	358 P	24 59.00	1.9
ANCC	9.09	133 eP	10 47.41	1.2		1.0s	36.00nm		5.3mb	BLA	27.31	5 P	25 13.80	1.3
HOBC	9.11	126 eP	10 53.01	6.5X	LSF	79.56	45 eP	20 40.00	-0.8		1.0s	47.50nm		5.2mb
PURC	10.29	136 eP	11 04.57	1.4		1.5s	57.45nm		5.3mb	NAV	27.38	5 eP	25 13.90	0.8
IISM	16.22	306 iP	12 22.30	0.7	RJF	79.61	46 eP	20 40.70	-0.3	ELC	27.75	350 e(P)	25 16.30	-0.1
III	17.65	301 (P)	12 45.50	5.6X		1.3s	65.00nm		5.5mb	TUL	28.22	338 eP	25 25.70	5.0X
RSCP	25.73	356 iP	14 05.60	1.3	CAF	80.02	46 eP	20 43.10	-0.2		1.4s	275.50nm		5.9mb
BLA	27.41	5 eP	14 21.20	1.5		1.0s	28.00nm		5.2mb	CVL	28.30	8 eP	25 22.10	0.7
	1.3s	69.44nm		5.2mb	TCF	80.03	45 eP	20 42.60	-0.7	NA2	28.55	9 ePc	25 24.40	0.8
NAV	27.48	5 eP	14 22.00	1.6		1.2s	32.75nm		5.2mb	FVM	28.65	348 eP	25 24.60	0.0
ELC	27.83	350 eP	14 23.10	-0.3	MAF	80.28	45 eP	20 44.10	-0.5		1.0s	40.00nm		5.2mb
TUL	28.28	339 eP	14 26.30	-1.2		1.0s	31.00nm		5.2mb	ZOBO	30.10	150 P	25 38.00	-0.4
	0.8s	60.10nm		5.4mb	BGF	80.45	44 eP	20 44.80	-0.7	LPB	30.33	150 eP	25 40.00	-0.3
CVL	28.40	8 e(P)	14 30.30	1.7		0.9s	28.65nm		5.3mb	WVLY	32.71	7 ePc	26 00.80	0.4
NA2	28.66	9 eP	14 33.20	2.3	AVF	80.78	44 eP	20 46.30	-0.9	BNH	36.11	15 eP	26 31.30	1.6
FVM	28.73	349 e(P)	14 31.60	0.1		1.1s	14.65nm		4.9mb	BAR	38.12	311 eP	26 53.00	6.3X
CLE	31.59	3 iP	14 58.00	1.1	SSF	80.86	44 eP	20 46.60	-1.1	TPC	38.38	314 eP	26 53.00	4.1X
WVLY	32.81	7 ePc	15 08.40	0.8		0.9s	9.85nm		4.8mb	PLM	38.58	312 eP	26 52.00	1.2
BNH	36.23	15 e(P)	15 40.10	3.1X	LOR	81.09	44 eP	20 48.00	-0.9	CBM	39.12	17 ePc	26 56.00	1.2
CBM	39.23	17 e(P)	16 02.70	0.6		1.1s	29.30nm		5.2mb	MWC	39.88	313 eP	27 09.00	7.4X
TNP	41.32	318 eP	16 23.00	3.3X	SMF	81.13	44 eP	20 48.20	-0.9	CLC	40.35	315 eP	27 09.00	3.7X
	1.0s	15.00nm		4.7mb		1.1s	22.00nm		5.1mb	ISA	40.89	314 eP	27 13.00	3.3X
FRI	42.42	315 e(P)	16 31.00	2.6X	LBF	81.19	44 eP	20 48.30	-1.2	SYP	41.42	312 eP	27 25.00	10.8X
		ePcP	18 23.40		DOU	81.33	41 P	20 50.00	-0.1	LRM	43.56	330 eP	27 31.40	-0.2
CMB	43.41	316 e(P)	16 43.30	6.7X	MEM	82.19	40 P	20 54.00	-0.4	ROCH	44.26	165 eP	27 39.00	1.6
		ePcP	18 26.40		HAU	82.69	43 eP	20 56.60	-0.6	TACH	44.92	165 eP	27 44.00	1.5
						1.1s	24.40nm		5.3mb	PCH	45.00	165 eP	27 45.00	1.8

22d 22h

LN	45.09	166 eP	27 45.50	1.7	LMR	1.4s	26.15nm	5.2mb	1.2s	30.88nm	5.0mb		
SCH	46.69	13 eP	27 55.00	-1.3	MUD	83.23	47 eP	31 53.50	-0.2	ZOBO	30.07 151 eP	48 03.00	-1.0
NEW	47.55	330 eP	28 02.50	-0.7		83.24	34 ePd	31 55.20	1.7	LPB	30.31 151 P	47 51.00	-14.9X
	1.2s	15.15nm		5.0mb		1.5s	18.00nm		5.0mb	ANMO	32.70 323 eP	48 25.10	-1.4
VAO	48.41	133 eP	28 08.60	-1.6	FRF	83.30	47 eP	31 53.80	-0.3		1.0s	9.50nm	4.7mb
		e	28 12.00		NB2	83.64	29 P	31 55.50	0.0	SIV	33.82 140 P	48 36.00	-0.1
PDCR	49.32	116 (P)	28 34.00	16.7X		1.6s	89.60nm		5.7mb	GLD	35.52 330 eP	48 40.00	-10.7X
EDM	49.45	337 iPc	28 17.00	-0.8	SBF	83.83	47 eP	31 56.80	-0.1		1.5s	156.25nm	
PNT	49.49	329 ePc	28 18.00	-0.1		1.1s	29.30nm		5.4mb	BAR	38.31 311 eP	49 25.00	10.9X
	1.1s	72.00nm		5.6mb	ADK	84.30	322 eP	31 59.20	0.3	CBM	38.76 16 eP	49 21.00	3.3X
GMW	50.07	326 eP	28 21.50	-1.2		1.0s	100.00nm		6.0mb	PLM	38.77 312 eP	49 22.00	3.8X
MCW	50.76	327 eP	28 27.10	-0.8	HFS	85.01	30 eP	32 00.90	-1.4	MWC	40.06 312 eP	49 34.00	5.1X
YKA	57.12	343 eP	29 05.50	-9.0X		1.5s	68.60nm		5.7mb	ISA	41.05 314 eP	49 42.00	5.2X
	1.0s	15.60nm		5.0mb			e	32 05.90		SYF	41.61 312 eP	49 46.00	4.5X
INK	66.81	342 eP	30 18.00	-1.3	BOB	85.12	46 P	32 04.40	1.0	LRM	43.58 330 eP	49 56.60	-1.0
	1.2s	94.00nm		5.9mb	COP	85.17	34 iPc	32 04.00	0.8	ROCH	44.36 166 eP	50 05.00	1.0
KLU	68.39	333 ePc	30 28.70	-0.7		1.2s	106.25nm		5.9mb	PEL	44.61 165 iP	50 06.50	0.7
TOA	68.71	333 eP	30 31.70	0.3	GRF	85.51	40 eP	32 05.00	-0.1	TACH	45.03 166 eP	50 10.50	1.3
PMR	69.88	332 ePc	30 38.00	-0.4	MOX	85.59	40 eP	32 05.50	0.0	ORV	45.06 317 eP	50 12.20	2.8
	1.1s	36.10nm		5.4mb		2.0s	127.00nm		5.8mb		e	50 21.00	
FBA	70.34	336 ePc	30 40.80	-0.4	MME	86.10	46 P	32 12.60	4.1X	PCH	45.10 165 eP	50 11.00	1.2
	0.9s	24.30nm		5.3mb	CLL	86.33	39 iPc	32 09.10	0.0	LNV	45.21 166 iPd	50 11.00	0.5
PDB	71.84	330 ePc	30 48.70	-1.7		1.9s	110.00nm		5.7mb	MIN	45.53 318 eP	50 14.50	1.2
SVW	72.80	331 ePc	30 55.10	-1.0	CTI	86.44	44 P	32 09.90	0.0	SES	46.34 335 eP	50 19.00	-0.4
AVE	72.96	58 iP	30 57.00	-0.5	FIR	86.57	46 eP	32 08.00	-2.4	SCH	46.37 13 eP	50 20.00	0.5
IMA	73.03	336 ePc	30 57.30	-0.2	PGD	86.88	46 P	32 11.20	-1.0	VAO	48.23 133 eP	50 32.50	-2.2
	1.3s	27.10nm		5.2mb	SFI	86.97	46 P	32 11.80	-0.6		e	50 35.40	
TTA	73.33	333 eP	30 58.40	-0.8	UPP	86.99	30 iP	32 11.00	-1.1		e	50 41.80	
CNIL	74.04	55 eP	31 06.50	2.8	FVI	87.10	43 P	32 14.40	1.5	PDCR	49.02 116 (P)	50 41.00	0.3
PLAT	74.28	55 eP	31 07.50	2.3	KHC	87.12	41 iPc	32 13.30	0.2	EDM	49.42 336 ePc	50 41.50	-1.9
LIJA	74.55	54 eP	31 08.00	1.2		1.2s	15.00nm		5.1mb	YKA	57.03 343 eP	51 33.60	-6.0X
IFR	74.86	58 iP	31 09.00	0.2	KBA	87.38	43 iP	32 13.60	-1.0		0.9s	10.10nm	4.9mb
BRW	75.34	341 eP	31 11.60	1.0		1.5s	36.40nm		5.4mb	INK	66.73 342 eP	52 43.00	-1.6
MAL	75.35	55 iPd	31 25.00	13.7X	PRU	87.56	40 P	32 15.00	-0.1	TOA	68.71 333 eP	52 56.70	-0.5
TOL	75.57	51 eP	31 15.00	2.5	TRI	87.95	44 P	32 18.00	0.9	PMR	69.89 332 eP	53 03.00	-1.2
EKA	76.37	35 Pc	31 15.40	-1.3	SOD	88.45	21 eP	32 24.00	4.9X		1.2s	25.70nm	5.2mb
	1.2s	24.90nm		5.2mb	SDI	88.82	48 P	32 20.30	-1.1	FBA	70.32 336 eP	53 05.70	-1.2
LKO	76.52	83 P	31 17.66	-0.7	ZST	89.61	41 eP	32 23.90	-1.0	AVE	72.45 58 eP	53 20.00	-0.3
	0.9s	42.50nm		5.5mb	NUR	90.14	28 iP	32 27.00	-0.2		i	53 43.00	
TIC	77.49	85 P	31 22.88	-0.9	KAF	90.31	26 iP	32 26.90	-1.0	SVW	72.82 331 eP	53 22.60	0.6
	1.1s	31.00nm		5.3mb		1.0s	14.70nm		5.2mb	IMA	73.00 336 eP	53 22.00	-1.1
LIC	77.55	86 P	31 23.40	-0.6			esP	32 29.40			1.3s	24.80nm	5.1mb
	0.9s	54.50nm		5.6mb	SRO	90.49	41 eP	32 29.60	0.6	IFR	74.35 58 iPc	53 34.00	2.3
LPF	77.61	43 eP	31 23.10	-0.6	SRO	90.49	41 eP	32 20.60	-8.4X	TOL	75.07 51 eP	53 37.50	2.0
	1.5s	94.00nm		5.7mb	BUD	91.04	41 e(P)	32 31.00	-0.6	BRW	75.27 341 eP	53 38.80	2.9X
ANM	77.65	334 eP	31 24.00	0.4	SPC	91.35	40 eP	32 34.60	1.4	EKA	75.92 35 Pc	53 40.30	0.4
GRR	77.72	43 eP	31 23.80	-0.5	OHR	94.06	47 eP	32 46.30	0.6		1.2s	17.10nm	5.0mb
	1.4s	87.15nm		5.7mb	RMQ	128.13	244 ePKP	38 34.00	-0.5	LKO	76.04 83 P	53 42.40	1.0
KIC	77.81	86 P	31 25.00	-0.5	TIY	130.35	343 ePKP	38 40.00	1.5		0.8s	27.50nm	5.4mb
FLN	77.97	42 eP	31 25.40	-0.3	QUE	130.99	35 ePKP	38 40.40	0.3	TIC	77.02 85 P	53 48.02	1.1
	1.3s	57.75nm		5.5mb	GYA	142.54	345 PKP	39 04.20	2.7X	LIC	77.08 86 P	53 48.28	1.1
LDF	78.21	42 eP	31 26.70	-0.3	QIZ	148.41	336 ePKP	39 11.50	0.3	LPF	77.13 43 eP	53 46.40	-0.4
	1.1s	39.05nm		5.4mb	GBA	149.88	39 PKP	39 18.00	4.4X		1.4s	26.15nm	5.1mb
MFF	78.26	44 eP	31 27.10	-0.2		1.2s	34.80nm			GRR	77.25 43 eP	53 47.00	-0.5
	1.1s	29.30nm		5.3mb	NWAO	150.22	217 ePKP	39 19.00	5.3X		1.3s	43.30nm	5.4mb
EPF	78.76	48 eP	31 30.40	0.2	KLB	150.83	219 ePKP	39 20.80	6.2X	KIC	77.34 86 P	53 49.66	1.0
	1.4s	61.00nm		5.5mb	MUN	151.50	217 ePKP	39 22.00	6.4X	FLN	77.49 42 eP	53 48.40	-0.4
LFF	78.95	46 eP	31 30.90	-0.2	BAL	152.16	219 ePKP	39 23.40	6.7X		1.2s	23.80nm	5.2mb
	1.1s	39.05nm		5.4mb		S.D. = 1.0	on 114 of 136 obs.			ANM	77.65 334 eP	53 51.90	2.5X
LPO	79.28	46 eP	31 32.50	-0.5						LDF	77.73 42 eP	53 49.80	-0.4
	1.3s	65.00nm		5.5mb		APR 22, 1991	22h 41m 51.40±0.31s				1.2s	17.85nm	5.0mb
LSF	79.43	45 eP	31 33.00	-0.8		10.148 N ± 5.2km	82.951 W ± 6.7km			MFF	77.77 44 eP	53 50.10	-0.3
RJF	79.48	46 eP	31 33.40	-0.6		DEPTH = 10.0km	(geophysicist)				1.4s	21.80nm	5.1mb
CAF	79.89	46 eP	31 35.80	-0.5		5.1mb (33 obs.)				EPF	78.27 48 eP	53 53.40	0.1
	1.3s	43.30nm		5.3mb		NORTH OF PANAMA	(79)				1.4s	30.50nm	5.2mb
TCF	79.90	45 eP	31 35.50	-0.8		Felt in Costa Rica.				LFF	78.46 46 eP	53 54.10	-0.1
	1.2s	26.80nm		5.1mb							1.3s	21.65nm	5.1mb
MAF	80.15	45 eP	31 37.00	-0.6	HOBC	8.88 130 eP	44 01.42	-1.4	LPO	78.79 46 eP	53 55.70	-0.4	
	1.4s	56.65nm		5.4mb	CLMC	8.88 134 eP	44 02.71	-0.3		1.3s	25.25nm	5.1mb	
BGF	80.32	44 eP	31 37.50	-1.0	ANCC	8.94 137 ePc	44 03.09	-0.5	LSF	78.94 45 eP	53 56.10	-0.8	
	1.3s	61.35nm		5.4mb	HOOC	9.13 136 eP	44 05.09	-1.4	RJF	78.99 46 eP	53 56.50	-0.7	
AVF	80.65	44 eP	31 39.20	-1.0	GCM	9.21 9 (P)	44 07.50	0.1		1.4s	34.85nm	5.2mb	
	1.0s	18.00nm		5.0mb	HOJ	9.85 37 P	44 20.17	4.0X	CAF	79.40 46 eP	53 58.90	-0.5	
SSF	80.73	44 eP	31 39.60	-1.1	STH	9.88 36 P	44 20.51	4.0X		1.5s	28.75nm	5.1mb	
	1.1s	14.65nm		4.9mb	SILC	9.90 138 eP	44 18.20	1.0	TCF	79.41 45 eP	53 58.50	-1.0	
LOR	80.96	44 eP	31 40.70	-1.2	PURC	10.16 139 eP	44 20.98	0.0		1.2s	10.40nm	4.7mb	
	1.3s	36.10nm		5.2mb	TPX	10.24 298 iP	44 20.00	-1.6	MAF	79.67 45 eP	54 00.00	-0.8	
SMF	81.00	44 eP	31 41.00	-1.1	SDV	12.21 95 eP	44 50.40	1.8		1.2s	14.90nm	4.9mb	
LBF	81.06	44 eP	31 41.00	-1.5	TOV	12.97 90 eP	45 13.60	15.0X	BGF	79.84 44 eP	54 00.80	-0.9	
HAU	82.56	43 eP	31 49.70	-0.5	MRX	20.00 300 (P)	46 29.00	1.8		1.3s	21.65nm	5.0mb	
	1.2s	29.75nm		5.3mb	RSCP	25.45 355 iP	47 23.00	1.9	AVF	80.17 44 eP	54 02.40	-1.1	
BSF	82.88	43 eP	31 51.00	-1.0		1.1s	237.27nm		5.8mb		1.1s	6.10nm	4.5mb
	1.1s	19.55nm		5.2mb	BLA	27.04 4 eP	47 37.80	2.0	SSF	80.25 44 eP	54 02.80	-1.1	
LPL	83.12	45 eP	31 53.60	0.2		1.5s	83.33nm		5.2mb		1.5s	15.65nm	4.8mb
ABH	83.12	41 eP	31 52.39	-0.7	TUL	28.18 338 eP	47 47.40	1.3	LOR	80.47 44 eP	54 04.10	-1.0	
CDF	83.13	42 eP	31 52.40	-0.9		1.6s	126.70nm		5.5mb		1.2s	13.40nm	4.8mb
LPG	83.13	45 eP	31 53.60	0.0	FVM	28.52 348 eP	47 49.50	0.3	SMF	80.51 44 eP	54 04.20	-1.1	

LBF	80.58	44 eP	54 04.30	-1.4	FFC	47.47	345 eP	00 12.00	0.1	PGF	84.64	48 eP	04 10.00	-0.5
HAU	82.08	43 eP	54 12.80	-0.7		1.2s	62.00nm		5.6mb	HFS	84.74	30 eP	04 09.90	-0.6
BSF	82.40	43 eP	54 14.10	-1.2	VAO	47.65	134 (P)	00 09.00	-4.8X		0.8s	2.40nm		4.5mb
	1.2s	14.90nm		5.0mb			e	00 11.70				e	04 15.00	
LPG	82.64	45 eP	54 16.70	-0.2	NEW	48.15	329 eP	00 17.20	-0.2			e	04 22.70	
	1.1s	7.35nm		4.7mb		1.1s	10.80nm		4.8mb			e	04 29.50	
CDF	82.65	42 eP	54 15.60	-1.0	PDCR	48.47	116 eP	00 13.10	-7.1X	GRF	85.09	41 eP	04 14.00	1.5
LMR	82.73	47 eP	54 16.50	-0.5			e	00 19.10				e	04 19.00	
NB2	83.22	29 P	54 19.70	0.5	BMA	49.51	131 (P)	00 13.00	-15.2X	MOX	85.19	40 eP	04 14.00	1.0
	1.1s	28.30nm		5.4mb	EDM	49.97	336 iPc	00 31.60	0.3	CLL	85.94	39 iPc	04 17.70	1.0
HFS	84.58	30 eP	54 25.70	-0.3	PNT	50.09	329 eP	00 32.00	-0.3		1.8s	56.00nm		5.4mb
	1.1s	11.80nm		5.0mb		0.9s	37.00nm		5.4mb	KHC	86.70	41 iPd	04 21.90	1.3
		e	54 32.70		YKA	57.55	343 eP	01 25.20	-1.8		1.4s	10.00nm		4.8mb
MOX	85.12	40 eP	54 30.20	1.3		1.1s	12.90nm		4.9mb	UPP	86.73	30 iP	04 19.80	-0.6
CLL	85.86	39 eP	54 33.00	0.4	INK	67.26	342 eP	02 32.00	0.3	KBA	86.94	43 eP	04 21.00	-1.0
	1.4s	39.00nm		5.4mb		1.2s	107.00nm		5.9mb		1.5s	30.00nm		5.3mb
		e	55 10.00		TOA	69.27	333 eP	02 44.80	0.5	PRU	87.15	40 eP	04 24.00	1.3
WET	86.20	41 iPc	54 35.90	1.5	FBA	70.87	336 eP	02 53.80	-0.2	SOD	88.31	21 eP	04 21.00	-6.9X
	1.2s	27.00nm		5.3mb		1.1s	16.60nm		5.1mb	SOD	88.31	21 eP	04 22.00	-5.9X
UPP	86.57	30 iP	54 36.10	0.3	AVE	72.33	58 eP	02 53.00	-10.3X	ZST	89.19	41 eP	04 32.90	0.4
KBA	86.91	43 iP	54 38.40	0.3			i	03 05.50		NUR	89.91	28 eP	04 34.00	-1.6
	1.5s	60.00nm		5.6mb	SVW	73.38	331 eP	03 08.60	-0.4	SRO	90.07	41 iP	04 43.70	7.1X
		i	55 04.40		IMA	73.55	336 ePc	03 10.00	0.0	MNG	105.34	231 ePdiff	05 49.80	3.9X
PRU	87.09	40 eP	54 48.50	9.9X		1.1s	18.00nm		5.0mb	BJI	127.54	342 ePKP	10 45.00	2.6X
		e	55 06.50		TTA	73.89	333 ePc	03 12.50	0.5	MHC	128.02	346 ePKP	10 43.60	0.1
ZST	89.14	41 eP	54 49.30	0.8		1.2s	25.90nm		5.1mb	TOO	128.73	229 ePKP	10 44.00	-0.9
NUR	89.73	28 eP	54 51.00	0.0	IFR	74.23	58 iPd	03 17.00	2.3	RMQ	128.82	244 iPKPd	10 43.80	-1.5
KAF	89.90	26 eP	54 51.30	-0.5	MAL	74.76	55 iPd	03 20.50	3.1X	TIY	130.77	344 ePKP	10 53.20	4.4X
MLR	95.73	42 eP	55 21.00	1.8	LKO	75.69	83 Pc	03 23.62	0.4	SSE	133.47	332 ePKP	10 58.20	4.2X
		e	05 08.00			1.0s	42.50nm		5.5mb	GKN	140.50	18 PKP	11 00.00	-7.4X
ASPA	142.39	244 iPKPd	01 19.80	-7.2X	BRW	75.80	341 eP	03 23.40	0.7	ASPA	142.57	244 iPKPd	11 05.00	-6.0X
	0.7s	9.50nm			EKA	76.02	35 Pd	03 24.80	0.5		1.4s	22.40nm		
GBA	149.41	40 PKP	01 43.00	4.3X		1.2s	15.30nm		5.0mb	GYA	142.94	346 PKP	11 08.00	-3.7X
	1.0s	12.50nm			TIC	76.65	85 Pc	03 29.06	0.5	KNA	148.91	256 ePKP	11 24.50	2.9X
	S.D. = 1.1 on 79 of 96 obs.					0.9s	19.00nm		5.2mb		0.5s	61.00nm		
APR 22, 1991 22h 51m 35.13±0.23s					LIC	76.70	86 P	03 29.44	0.6	GBA	149.47	41 PKPd	11 25.70	3.2X
9.723 N ± 4.2km 82.540 W ± 5.4km						0.9s	36.50nm		5.4mb		0.9s	8.70nm		
DEPTH = 10.0km (geophysicist)					KIC	76.96	86 Pc	03 31.00	0.7	NWAO	150.57	215 ePKP	11 37.00	13.3X
5.2mb (44 obs.)						0.9s	29.50nm		5.4mb	CHG	151.61	357 ePKP	11 31.00	5.3X
PANAMA-COSTA RICA BORDER REGION (80)					LPF	77.16	43 eP	03 30.40	-0.4	MUN	151.86	215 ePKP	11 30.80	5.1X
MD 5.1 (SJR). Felt in Costa Rica.						1.6s	87.05nm		5.6mb		S.D. = 1.1 on 87 of 116 obs.			
					GRR	77.28	43 eP	03 31.30	-0.1					
						1.4s	69.70nm		5.6mb					
HOBC	8.30	130 eP	53 39.82	1.3	FLN	77.53	42 eP	03 32.80	0.0					
ANCC	8.35	137 ePc	53 40.26	1.0		1.0s	22.00nm		5.2mb					
HOOC	8.54	136 eP	53 43.73	1.6	LDF	77.77	42 eP	03 34.10	0.0					
SILC	9.32	138 ePc	53 55.17	2.3		1.2s	35.70nm		5.3mb					
PURC	9.58	140 ePc	53 57.78	1.2	MFF	77.79	44 eP	03 34.00	-0.3					
						1.3s	21.65nm		5.1mb					
COTA	10.22	156 P+	54 06.00	0.5	ANM	78.20	334 eP	03 38.30	2.1	CLMC	8.69	129 eP	15 33.20	0.1
YANA	10.54	158 Pd	54 09.90	0.1	EPF	78.25	48 eP	03 37.20	0.3	ANCC	8.71	132 eP	15 31.58	-1.6
CAYA	10.60	154 eP	54 12.30	1.6		1.5s	47.00nm		5.3mb	PURC	9.90	135 eP	15 51.80	1.7
OTO	10.64	158 eP	54 11.60	0.4	LFF	78.46	46 eP	03 37.90	-0.1	SDV	12.52	92 eP	16 17.90	-7.6X
TPX	10.80	299 iP	54 14.50	1.5		1.4s	34.85nm		5.2mb	TOV	13.33	88 eP	16 24.40	-11.7X
VC1	11.09	158 P	54 18.50	1.2	LPO	78.79	46 eP	03 39.60	-0.2	CEOS	14.78	90 iP	16 45.80	-9.5X
SDV	11.78	93 eP	54 34.40	7.9X		1.5s	62.70nm		5.4mb	OLLA	16.27	87 iP	17 06.20	-8.4X
TOV	12.56	89 eP	54 38.20	1.3	LSF	78.96	45 eP	03 40.10	-0.6	RSCP	26.10	356 eP	19 00.00	0.1
OXX	15.61	299 iP	55 17.50	0.3		1.4s	30.50nm		5.1mb		1.5s	161.29nm		5.5mb
PPM	18.13	303 iP	55 50.30	1.0	RJF	78.99	46 eP	03 40.50	-0.4	BLA	27.75	5 eP	19 14.00	-1.0
ILI	18.52	300 iP	55 55.50	1.6		1.4s	34.85nm		5.2mb		1.0s	18.00nm		4.8mb
MRX	20.57	301 (P)	56 18.00	1.2	CAF	79.40	46 eP	03 43.10	-0.1	TUL	28.68	339 eP	19 21.40	-1.9
RSCP	25.91	354 eP	57 12.10	3.0X		1.3s	27.10nm		5.1mb		2.0s	60.20nm		5.0mb
	1.3s	138.51nm		5.5mb	TCF	79.43	45 eP	03 42.60	-0.7	FVM	29.11	348 eP	19 27.10	-0.1
BLA	27.43	4 eP	57 26.10	3.0X		1.5s	26.10nm		5.0mb		1.2s	29.41nm		5.0mb
	1.5s	61.11nm		5.1mb	MAF	79.68	45 eP	03 44.10	-0.5	ZOBO	29.66	149 P	19 32.80	-0.2
ARE	28.22	157 eP	57 31.00	0.3		1.5s	36.55nm		5.1mb	LPB	29.89	150 P	19 36.00	1.0
TUL	28.72	337 eP	57 34.70	0.0	BGF	79.85	44 eP	03 44.90	-0.6	CCH	31.61	147 P	19 49.00	-1.0
	1.6s	53.80nm		5.1mb		1.4s	32.65nm		5.1mb	SIV	33.53	139 P	20 03.20	-3.2X
FVM	29.02	347 eP	57 38.40	1.0	AVF	80.19	44 eP	03 46.30	-1.0	GOL	35.97	330 eP	20 26.80	-0.6
	1.2s	30.88nm		5.0mb		1.5s	20.90nm		4.9mb		1.1s	11.54nm		4.7mb
ZOBO	29.50	151 P	57 40.00	-2.6	SSF	80.27	44 eP	03 46.40	-1.4	CBM	39.51	16 e(P)	20 57.00	0.3
LPB	29.74	151 P	57 39.00	-5.6X		1.4s	17.45nm		4.9mb	TNP	41.72	319 eP	21 16.00	0.8
SIV	33.23	140 P	58 12.00	-2.8	LOR	80.50	44 eP	03 47.70	-1.3	LRM	44.00	331 eP	21 34.80	1.0
GOL	36.13	329 eP	58 39.00	-0.7		1.4s	30.50nm		5.1mb	PEL	44.04	165 eP	21 34.00	0.0
	1.0s	15.00nm		4.8mb	SMF	80.53	44 eP	03 48.20	-1.0	LNV	44.63	166 eP	21 39.50	0.8
BAR	38.89	311 eP	59 13.00	10.3X		1.5s	26.10nm		5.0mb	FFC	47.53	345 eP	22 00.00	-1.4
TPC	39.13	313 eP	59 12.00	7.2X	LBF	80.60	44 eP	03 48.20	-1.4		1.7s	63.00nm		5.4mb
PLM	39.35	312 eP	59 13.00	6.2X		1.5s	18.30nm		4.9mb	VAO	48.02	133 eP	22 05.70	-0.1
GSC	40.28	315 eP	59 18.00	3.7X	WTS	82.02	39 eP	03 57.50	0.7			e	22 08.00	
ISA	41.64	314 eP	59 30.00	4.6X		1.0s	18.00nm		5.1mb	PDCR	49.03	116 eP	22 13.70	0.1
ROCH	43.86	166 eP	59 42.50	-1.1	HAU	82.12	43 eP	03 56.90	-0.5	EDM	49.90	337 eP	22 20.50	0.6
PEL	44.10	166 iPc	59 44.00	-1.4	BSF	82.43	43 eP	03 58.10	-1.1	PNT	49.93	330 eP	22 25.00	4.9X
LRM	44.15	330 eP	59 45.70	-0.3	CDF	82.69	42 eP	03 59.60	-0.9		0.6s	4.00nm		4.6mb
SAN	44.40	166 eP	59 46.50	-1.3	SBF	83.33	47 eP	04 03.30	-0.6	YKA	57.58	343 eP	23 11.60	-4.6X
TACH	44.52	166 eP	59 47.50	-1.3		1.2s	35.70nm		5.4mb		1.1s	8.00nm		4.7mb
PCH	44.59	166 eP	59 48.50	-1.0	NB2	83.39	29 P	04 04.50	0.7	INK	67.27	342 eP	24 20.00	-0.7
LNV	44.70	167 ePc	59 48.10	-2.1		1.4s	31.60nm		5.3mb	TOL	75.77	51 eP	25 12.00	-0.2

22d 23h

LKO	76.47	82 P	25 14.62	-2.0
	1.0s	31.50nm		5.3mb
EKA	76.67	35 P	25 19.00	2.1
	1.1s	8.10nm		4.7mb
TIC	77.42	85 P	25 19.62	-2.3
	1.0s	27.50nm		5.3mb
LIC	77.47	86 P	25 20.48	-1.7
	1.0s	54.00nm		5.6mb
KIC	77.74	86 P	25 22.10	-1.5
	1.0s	40.00nm		5.4mb
LDF	78.47	42 eP	25 28.70	1.7
	0.7s	5.50nm		4.7mb
MFF	78.50	44 eP	25 29.20	2.0
	0.9s	6.55nm		4.7mb
EPF	78.98	48 eP	25 31.90	1.9
	1.0s	6.00nm		4.6mb
AVF	80.90	44 eP	25 41.00	0.9
	0.8s	2.70nm		4.3mb
SSF	80.98	44 eP	25 41.50	1.0
BSF	83.13	43 eP	25 54.60	2.7
	0.8s	5.35nm		4.8mb
CDF	83.39	42 eP	25 54.50	1.4
	0.8s	2.70nm		4.5mb
NB2	83.98	29 P	25 53.00	-2.8
	1.1s	6.30nm		4.8mb
HFS	85.34	30 eP	26 03.70	1.2
	1.1s	8.00nm		4.8mb
CLL	86.61	39 eP	26 09.00	0.0
KHC	87.39	41 eP	26 12.10	-0.9
K8A	87.64	43 eP	26 13.00	-1.4
	1.2s	5.70nm		4.7mb
ASPA	141.78	244 iPKPd	32 55.00	-3.7X
	1.1s	14.10nm		
GBA	150.15	40 PKPc	33 15.70	3.2X
	1.0s	6.80nm		
S.D. = 1.4 on 39 of 48 obs.				

? APR 22, 1991 23h 16m 08.20±1.66s
 9.305 N ±28.1km 83.414 W ±34.6km
 DEPTH = 10.0km (geophysicist)
 4.9mb (8 obs.)
 COSTA RICA (78)

SCH	47.28	13 eP	24 43.00	-0.5
FFC	47.65	346 eP	24 46.00	-0.4
	0.8s	16.00nm		5.2mb
VAO	48.00	133 eP	24 48.00	-1.6
		e	24 53.40	
PNT	50.01	330 eP	25 06.00	1.3
EKA	76.86	35 P	28 01.00	-1.0
	1.1s	8.20nm		4.7mb
TIC	77.54	85 P	28 07.74	1.1
	1.0s	11.50nm		4.9mb
LIC	77.59	86 P	28 08.22	1.3
	0.8s	11.50nm		5.0mb
KIC	77.86	85 P	28 09.72	1.4
	0.8s	9.50nm		4.9mb
NB2	84.17	29 P	28 40.30	-0.5
	1.0s	6.30nm		4.8mb
HFS	85.53	30 eP	28 46.20	-1.3
	0.5s	0.90nm		4.2mb
Z	15s	16.54um		6.5mszx
		e	28 48.90	
		e	28 51.20	
CLL	86.80	39 iPd	28 54.20	0.2
	1.4s	14.00nm		5.0mb
ZST	90.07	41 e(P)	29 09.80	0.1
GBA	150.35	40 PKPc	36 02.70	5.8X
	1.1s	12.20nm		
S.D. = 1.2 on 12 of 13 obs.				

% APR 22, 1991 23h 59m 29.92±1.46s
 43.324 N ±12.1km 13.099 E ±20.3km
 DEPTH = 5.0km (geophysicist)
 CENTRAL ITALY (381)

ARV	0.21	327 P	59 34.30	0.1
		eSg	59 37.90	
RSM	0.76	322 P	59 45.10	-0.1
		eSg	59 54.80	
CRE	0.89	290 P	59 47.50	0.0
		eSg	00 03.70	
AQU	1.00	167 P	59 49.30	0.0
		eSg	00 04.80	
SFI	1.08	304 P	59 50.80	0.1
PGD	1.14	299 P	59 53.50	1.6X
S.D. = 0.1 on 5 of 6 obs.				

APR 23, 1991 00h 19m 55.83±0.36s
 39.017 N ±3.3km 28.784 E ±4.7km
 DEPTH = 7.7 ± 3.3 km

TURKEY (366)
 MD 3.3 (ISK).

DST	0.60	348 iPg	20 07.80	-0.1
KHL	0.90	140 iPg	20 12.40	-1.0
		iSg	20 24.90	
ALT	1.03	87 iPn	20 16.00	0.4
IZM	1.34	243 iPn	20 20.70	-0.1
IZI	1.42	22 iPn	20 22.80	0.7
BNT	1.49	334 iPn	20 22.80	-0.2
EDC	1.51	332 iPn	20 23.00	-0.1
YLV	1.61	16 iPn	20 24.30	-0.5
GPA	1.73	42 iPn	20 26.70	0.2
GBZT	1.84	16 ePn	20 31.20	3.2X
		iSg	20 57.00	
YER	1.92	192 ePn	20 29.50	0.3
HRT	1.93	20 ePn	20 29.40	0.1
ISK	2.06	6 ePn	20 31.00	-0.1
EZN	2.07	294 ePn	20 32.00	0.7
BCK	2.11	137 iPn	20 31.60	-0.3
ELL	2.43	158 ePn	20 37.00	0.3
DMK	2.91	345 ePn	20 42.30	-1.0
BBTK	3.19	74 eP	20 58.00	10.6X
		eS	21 44.00	

S.D. = 0.6 on 16 of 18 obs.

? APR 23, 1991 00h 33m 45.24±5.43s
 31.436 S ±24.5km 68.557 W ±22.7km
 DEPTH = 88.3 ± 47.8 km
 SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.13	35 iPc	33 58.30	0.0
ZON	0.15	223 iPd	33 57.60	-0.8
		eS	34 08.60	
RTCB	0.21	256 iPd	33 58.30	0.7
		eS	34 10.00	
CFA	0.32	122 iPc	33 59.00	0.2
		eS	34 10.90	
RTBS	0.80	253 ePd	34 02.80	0.0
RTRS	1.48	328 iPc	34 11.00	0.0
		S	34 31.60	
S.D. = 0.7 on 6 of 6 obs.				

* APR 23, 1991 01h 47m 43.25±0.78s
 20.958 S ±26.4km 173.447 W ±13.8km
 DEPTH = 33.0km (normal)
 4.9mb (10 obs.)
 TONGA ISLANDS (173)

DZM	18.74	263 iPc	52 01.20	-0.7
LTZ	24.84	206 eP	53 15.20	11.2X
RMQ	34.95	253 eP	54 33.00	-1.4
TOO	39.12	236 eP	55 11.00	1.6
ASPA	48.56	256 iPd	56 24.40	-1.3
	1.2s	15.20nm		4.9mb
PRI	75.59	42 e(P)	59 29.80	3.0X
PAS	75.94	45 eP	59 19.00	-9.7X
PLM	76.34	46 eP	59 36.00	4.8X
ISA	76.68	43 eP	59 33.00	0.1
FRI	76.73	42 e(P)	59 34.20	1.2
CMB	76.98	40 e(P)	59 31.70	-2.8
CLC	77.33	44 eP	59 36.00	-0.5
GSC	77.54	44 eP	59 39.00	1.3
TNP	78.95	42 ePc	59 45.10	-0.5
	1.0s	12.50nm		4.9mb
MDJ	83.39	323 eP	00 08.50	0.0
PV09	84.41	45 eP	00 14.30	0.2
ALQ	84.41	49 eP	00 14.00	-0.1
	1.2s	12.50nm		5.0mb
ANMO	84.41	49 eP	00 15.40	1.3
	1.0s	10.00nm		4.9mb
PNT	84.72	32 eP	00 15.00	0.0
	0.6s	5.00nm		4.9mb
BW06	86.43	41 eP	00 23.00	-1.0
	2.0s	32.75nm		5.2mb
TIA	86.76	311 eP	00 25.50	0.0
FBA	87.84	11 eP	00 28.80	-1.2
IMA	88.04	8 eP	00 30.90	-0.2
	1.3s	6.40nm		4.8mb
BJI	89.25	314 eP	00 38.00	0.8
	1.5s	31.00nm		5.4mb
SES	89.78	35 eP	00 39.00	-0.6
RSSD	90.57	42 eP	00 44.50	0.9

TIY	90.79	310 Pd	00 46.50	1.9
Z	24s	2.40um		5.6mszx
N	20s	1.10um		
XAN	91.83	306 eP	00 49.90	0.5
HHC	92.75	313 eP	00 54.80	1.2
INK	93.65	14 eP	00 57.00	0.1
YKA	95.19	24 eP	01 03.40	-0.7
	0.9s	0.60nm		4.0mb
KSP	149.21	348 ePKPc	07 14.00	-11.4X
		e	07 30.70	
CLL	149.29	352 ePKP	07 30.00	4.5X
		e	07 45.00	
SPC	149.78	342 ePKP	07 33.90	7.3X
MOX	150.10	354 ePKP	07 33.00	6.2X
PRU	150.35	350 ePKP	07 33.00	5.9X
		e	07 44.50	
BBTK	150.76	316 ePKP	07 45.00	16.8X
MLR	150.80	331 ePKPd	07 35.00	6.9X
GRF	151.09	354 e(PKP)	07 37.00	8.7X
KHC	151.33	350 PKP	07 36.20	7.5X
		e	07 47.80	
ZST	151.53	345 ePKP	07 42.80	13.9X
S.D. = 1.1 on 27 of 41 obs.				

APR 23, 1991 02h 18m 28.26±0.43s
 39.424 N ±4.2km 22.916 E ±4.0km
 DEPTH = 15.6 ± 3.9 km
 3.5mb (2 obs.)

GREECE (364)
 MD 3.4 (THE). ML 3.3 (ATH).

AGG	0.61	229 ePc	18 38.60	-1.5
		eS	18 46.80	
LIT	0.75	334 iPc	18 41.52	-1.0
		eS	18 52.04	
PAIG	0.77	49 ePd	18 44.40	1.5
		eS	18 56.40	
THE	1.21	2 iPc	18 49.72	-0.5
		eS	19 05.60	
OUR	1.22	42 ePd	18 51.45	0.9
KZN	1.25	315 ePb	18 50.50	-0.5
SOH	1.44	13 iPd	18 54.36	0.7
ATH	1.58	156 ePb	18 56.00	0.3
		eSb	19 16.50	
GRG	1.58	346 ePd	18 55.88	0.1
		eS	19 17.28	
KNT	1.74	360 ePc	18 58.24	0.3
		eS	19 20.70	
SRS	1.77	17 ePd	18 58.72	0.3
		eS	19 21.40	
FNA	1.80	319 ePc	18 59.04	0.1
		eS	19 21.60	
VAY	1.91	352 ePn	19 01.20	0.7
LSK	1.93	293 ePn	19 00.80	0.0
IGT	2.00	274 eP	19 03.80	2.0
		eS	19 31.48	
VLS	2.20	236 ePn	19 07.00	2.2
MMB	2.25	16 ePd	19 05.00	-0.4
		iS	19 34.00	
OHR	2.34	317 iPn	19 07.20	0.5
		iSn	19 38.20	
TPE	2.40	292 ePn	19 12.50	5.0X
KK8	2.44	3 iP	19 08.00	-0.1
		iS	19 38.00	
RDO	2.64	49 ePn	19 10.00	-1.0
EZN	2.66	80 ePn	19 12.00	0.7
VLI	2.70	180 ePn	19 11.00	-0.8
SKO	2.78	337 ePn	19 08.00	-5.0X
ALN	2.81	57 ePd	19 13.16	-0.2
KDZ	2.93	40 iPd	19 14.00	-1.0
PHP	2.94	321 ePn	19 15.70	0.5
PLD	3.00	26 eP	19 17.00	1.0
TIR	3.02	310 ePn	19 24.50	8.2X
VTS	3.17	4 iPd	19 19.00	0.4
		iSg	19 57.00	
PGB	3.26	16 eP	19 20.00	0.2
DIM	3.29	36 eP	19 20.00	-0.2
LACI	3.29	313 ePn	19 24.80	4.6X
JMB	4.12	41 eP	19 30.00	-1.9
DMK	4.39	55 eP	19 35.00	-0.8
DST	4.42	86 eP	19 37.00	0.7
PSN	5.81	41 eP	19 31.00	-24.7X
MLR	6.46	19 eP	20 06.00	0.8
CVO	6.83	20 eP	20 12.00	1.8
HFS	21.53	347 P	23 16.40	-2.1
	0.5s	0.90nm		3.4mb

e 23 19.60
 e 23 24.30
 NB2 22.83 345 P 23 30.00 -1.4
 0.7s 1.10nm 3.5mb
 S.D. = 1.1 on 36 of 41 obs.

APR 23, 1991 02h 22m 43.77±0.44s
 43.395 N ± 4.2km 13.245 E ± 4.0km
 DEPTH = 5.0km (geophysicist)
 CENTRAL ITALY (381)

ARV 0.24 295 Pc 22 48.70 0.0
 eSg 22 51.60
 RSM 0.78 313 P 22 59.60 0.2
 CRE 0.97 284 P 23 01.80 -0.9
 eSg 23 16.20
 AQU 1.05 174 P 23 03.00 -1.0
 eSg 23 22.00
 SFI 1.14 298 P 23 04.90 -0.6
 eSg 23 21.70
 PGD 1.21 294 P 23 06.70 -0.1
 eSg 23 26.30
 AZI 1.41 174 P 23 13.10 3.0X
 FIR 1.49 285 e(Pg) 23 12.00 0.7
 e(Sg) 23 33.00
 SDI 1.74 166 Pd 23 16.00 1.1
 DUI 1.95 152 P 23 22.00 4.0X
 eSg 23 47.00
 MME 2.01 294 P 23 19.60 0.7
 BDI 2.03 290 P 23 19.70 0.6
 eSn 23 43.90
 RIY 2.11 22 e(Pn) 23 21.10 0.9
 iSn 23 47.70
 TRI 2.34 9 P 23 22.80 -0.7
 eSn 23 49.10
 HVAR 2.35 94 ePn 23 23.30 -0.3
 iSn 23 53.50
 CEY 2.49 19 e(Pn) 23 29.50 3.9X
 eSn 23 59.50
 VBY 2.55 34 iP 24 00.60 34.1X
 iSn 24 09.80
 VOY 2.68 10 ePn 23 31.60 3.2X
 eSn 23 13.60
 LJU 2.80 19 ePn 23 30.40 0.3
 eSn 24 06.00
 CTI 2.89 337 P 23 31.10 -0.2
 eSn 24 03.40
 PTJ 3.17 37 eP 23 46.00 10.7X
 FVI 3.21 354 P 23 35.70 -0.1
 KBA 3.68 1 ePn 23 42.00 -0.7
 eSn 24 24.50
 i 24 25.80
 SOTA 4.09 340 iPnc 23 48.80 0.5
 i 24 33.60
 iSn 24 35.20
 i 24 42.40
 S.D. = 0.7 on 18 of 24 obs.

? APR 23, 1991 02h 30m 44.08±1.03s
 37.013 N ± 10.2km 29.430 E ± 7.7km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.5 (ISK).

ELL 0.47 124 iPg 30 53.30 -0.3
 iSg 31 00.30
 YER 0.93 278 ePn 31 02.00 0.2
 BCK 1.03 64 iPn 31 04.10 0.6
 KHL 1.31 3 ePn 31 07.90 -0.5
 S.D. = 0.8 on 4 of 4 obs.

APR 23, 1991 02h 48m 58.51±0.13s
 2.759 S ± 3.3km 134.432 E ± 4.7km
 DEPTH = 10.3km (geophysicist)
 5.8mb (28 obs.) 5.6Msz (9 obs.)
 WEST IRIAN REGION (196)

Depth from broadband
 displacement seismograms.
 FAULT PLANE SOLUTION: P-Waves
 NP1: Strike=285 Dip=80 Slip=-16
 NP2: 18 74 -170
 Principal Axes:
 T Plg=4 Azm=332
 P 18 241
 Comment: The focal mechanism is
 moderately well controlled and
 corresponds to strike-slip

faulting with a small normal
 component. The preferred fault
 plane is not determined.

RADIATED ENERGY

No. of sto: 5 Focal mech. F
 Energy 4.5±1.4*10**13 Nm

MNDI 9.80 110 eP 51 13.00 -9.7X
 MTN 10.54 198 eP 51 36.50 3.8X
 KUPT 13.02 235 eP 52 02.50 -3.8X
 eS 54 27.50
 DAV 13.18 318 eP 52 02.40 -6.0X
 KNA 14.06 203 eP 52 16.90 -3.1X
 0.5s 256.00nm 6.2mb
 e 54 49.00
 PMG 14.27 118 eP 52 20.00 -2.7X
 WB2 17.08 180 eP 52 55.80 -3.3X
 WRA 17.08 180 P 53 16.30 17.2X
 BKB2 17.59 275 iPc 53 15.10 9.7X
 RAB 17.76 95 iP+ 53 08.00 0.4
 iS 56 16.00
 OIS 18.40 164 iPc 53 12.20 -3.2X
 0.7s 160.00nm 5.3mb
 i 56 44.00
 GUA 19.24 32 eP 53 27.00 1.2
 1.2s 437.50nm 5.6mb
 KKM 20.18 296 ePd 53 41.30 5.0X
 CTA 20.73 147 iPc 53 42.10 0.2
 1.0s 233.00nm 5.5mb
 iS 57 31.00
 ASPA 20.79 181 iPd 53 42.40 -0.1
 0.9s 1564.20nm 6.4mb
 eS 57 31.60
 e 00 26.80
 TRT 22.25 256 ePd 53 58.70 1.5
 1.0s 415.50nm 5.8mb
 WARB 24.46 197 eP 54 20.50 1.7
 0.5s 85.00nm 5.6mb
 OLP 25.49 159 iPc 54 28.20 -0.4
 i 54 33.00
 i 58 28.20
 SVO 26.02 105 P 54 34.00 0.4
 HNR 26.21 106 eP 54 37.00 1.6
 RMO 27.31 151 eP 54 44.00 -1.4
 i 54 50.00
 i 03 05.00
 i 04 27.60
 FORR 28.57 191 eP 54 56.00 -0.7
 BRS 30.13 146 iPd 55 10.40 -0.5
 i 55 44.00
 i 58 12.40
 iS 01 08.40
 CMS 30.53 161 eP 55 13.00 -1.3
 e 55 28.00
 i 59 08.00
 COOL 30.66 203 eP 55 15.70 0.2
 OZH 31.54 332 Pc 55 22.00 -1.2
 0.8s 100.00nm 5.8mb
 Z 15s 6.50um 5.4MszX
 N 14s 3.80um
 COO 32.23 151 e(P) 55 31.00 1.8
 i 55 32.80
 ADE 32.29 173 iPd 55 29.00 -0.8
 0.7s 82.19nm 5.8mb
 BAL 32.38 209 iPd 55 31.10 0.6
 1.0s 295.00nm 6.2mb
 OIZ 32.46 313 eP 55 29.30 -2.1
 7.0s 1600.00nm 6.1mb X
 N 14s 3.30um
 E 13s 5.60um
 GZH 32.91 322 P 55 37.00 1.9
 NWA0 34.07 286 ePd 55 46.03 0.9
 ePc 55 49.17 11kmX
 eSpc 55 50.99
 ePP 56 56.62
 e 58 45.00
 IPM 34.17 282 ePd 55 30.10 -16.2X
 1.0s 103.20nm
 e 55 38.80
 BFD 35.05 169 iPc 55 53.00 -0.6
 1.0s 87.00nm 5.6mb
 i 57 24.60
 e 04 16.00
 e 05 16.00
 CNB 35.23 159 eP 55 53.70 -1.5
 e 59 43.90
 e 03 28.00

PSI 35.91 278 ePd 55 57.20 -3.9X
 TOO 36.10 165 iPc 56 03.00 0.4
 e 03 33.00
 PVC 36.41 116 iPc 56 06.50 1.2
 DZM 36.53 124 iPc 56 06.20 -0.3
 PCT 37.01 299 eP 56 11.80 1.4
 WHN 38.26 331 P 56 22.50 1.8
 1.2s 300.00nm 5.9mb
 CHJJ 38.84 6 eP 56 24.00 -1.5
 KAKJ 39.13 7 eP 56 27.00 -0.9
 MAJO 39.26 5 ePd 56 26.76 -2.2
 eSpc 56 31.06
 ePP 58 04.67
 eS 02 05.56
 eSS 05 20.90
 GYA 39.55 319 P 56 29.00 -2.7X
 Z 22s 4.70um 5.3Msz
 N 15s 3.70um
 E 15s 2.70um
 PP 58 08.00
 BSI 39.94 282 eP 56 35.00 0.0
 NIJJ 40.02 6 eP 56 32.30 -3.0X
 BDT 40.21 301 eP 56 37.50 0.4
 0.7s 126.80nm 5.7mb
 CHTO 40.97 303 iP 56 44.20 0.9
 YAMJ 41.06 7 eP 56 45.10 1.3
 KMI 41.39 314 ePd 56 47.77 0.8
 ePc 56 50.58 9kmX
 eSpc 56 52.90
 ePP 58 26.67
 eS 02 57.68
 TAU 41.60 166 eP 56 49.00 0.8
 e 58 16.00
 OFUJ 42.16 8 eP 56 55.50 2.7
 XAN 43.78 329 P 57 06.00 -0.2
 1.1s 200.00nm 5.8mb
 MRRJ 45.37 7 eP 57 18.90 0.1
 HOOJ 45.64 9 eP 57 22.10 1.2
 BJI 45.76 340 ePd 57 22.00 0.1
 eS 57 26.14
 SAP 46.03 7 eP 57 22.00 -1.9
 KUSJ 46.58 10 eP 57 28.60 0.3
 CN2 47.05 351 Pc 57 30.00 -2.0
 1.0s 30.00nm 5.3mb
 N 18s 5.60um
 E 18s 2.20um
 eS 04 20.00
 ASAJ 47.24 8 eP 57 34.10 0.5
 MDJ 47.36 355 Pd 57 34.20 -0.3
 LZH 48.05 326 P 57 39.00 -1.3
 1.5s 311.00nm 6.2mb
 Z 22s 6.70um 5.6Msz
 N 16s 5.26um
 E 16s 4.79um
 pP 57 56.00 67kmX
 sP 58 02.00
 PP 58 19.00
 S 02 53.00
 HHC 48.16 337 P 57 41.60 0.6
 1.2s 100.00nm 5.8mb
 Z 24s 6.30um 5.5MszX
 N 14s 2.70um
 E 15s 2.20um
 PP 57 53.00
 PP 59 33.00
 PCS 03 00.00
 S 04 34.00
 BTO 48.58 335 P 57 43.00 -1.2
 N 13s 2.20um
 E 13s 1.70um
 THZ 51.92 144 eP 58 08.50 -1.2
 GTA 52.66 326 P 58 15.60 0.3
 1.2s 80.00nm 5.5mb
 Z 22s 5.30um 5.5Msz
 N 18s 5.50um
 WEL 52.76 142 eP 58 12.00 -3.9X
 MNG 52.81 141 eP 58 14.30 -2.1
 PGZ 53.31 141 eP 58 18.10 -1.9
 HIA 53.36 348 ePd 58 19.27 -1.0
 ePc 58 22.91 12kmX
 eSpc 58 23.90
 eS 05 44.91
 NOZ 53.39 138 eP 58 21.60 1.0
 KOD 58.16 284 eP 58 55.60 -0.1
 GBA 58.81 288 Pd 58 59.00 -0.8
 0.7s 45.50nm 5.7mb
 WMO 62.45 324 ePd 59 24.82 0.5

23d 02h

	1.0s	100.00nm	6.0mb	VKA	110.49	321	ePKP	07	32.00	-0.9		1.1s	35.40nm						
Z	20s	2.90um	5.4Msz	BW06	110.79	45	e(PKP)	07	31.30	-2.7X		MAF	119.82	323	ePKP	07	50.50	-0.3	
N	16s	4.60um		PRU	110.97	323	PKP	07	34.00	0.3			0.9s	9.00nm					
E	16s	4.00um								5.6Msz		TCF	119.99	324	ePKP	07	50.80	-0.3	
		ePc	59 29.12										0.8s	22.15nm					
		ePcP	00 05.21									LDF	120.07	327	ePKP	07	50.70	-0.5	
		eS	07 50.65										0.9s	16.40nm					
		e	08 08.30						08 12.00			FLN	120.17	327	ePKP	07	50.80	-0.5	
		SS	11 54.00						08 28.00				0.7s	9.90nm					
POO	63.23	292 iPd	59 25.60	-4.2X	FFC	111.07	31	ePKP	07	34.00	0.2	LSF	120.42	324	ePKP	07	51.10	-0.8	
	1.0s	92.00nm	5.9mb	CLL	111.35	325	ePdiff	03	38.00	2.2			0.8s	13.45nm					
DRV	63.90	178 eP	59 32.70	-0.7								GRR	120.59	327	ePKP	07	50.90	-1.2	
SMY	64.56	25 ePc	59 40.90	3.0X	CLL	111.35	325	iPKP	07	34.30	-0.1		1.0s	24.00nm					
KSH	68.02	315 eP	00 02.20	1.8								CAF	120.79	322	ePKP	07	52.80	0.1	
	12s	6.70um			KHC	111.87	323	ePKP	07	15.20	-20.3X		1.0s	27.00nm					
ADK	68.31	30 eP	00 01.80	0.0	VBY	112.11	318	e(PKP)	07	36.50	0.5	LPF	120.89	327	ePKP	07	52.50	-0.2	
	1.7s	315.50nm	6.2mb	PV09	112.24	49	ePKP	07	37.30	0.4			0.9s	29.50nm					
		ic	00 05.00		LJU	112.40	319	e(PKP)	07	36.50	-0.1	RJF	120.92	323	ePKP	07	52.60	-0.3	
SBA	76.97	173 iP	00 53.20	0.7	MOX	112.43	325	ePKP	07	37.00	0.5		1.1s	19.55nm					
		S	10 45.20						08 24.00			ECP	120.95	333	ePKP	07	52.40	-0.3	
SDN	78.39	32 e(P)	01 03.00	2.4	CEY	112.58	319	e(PKP)	07	37.00	0.0		0.8s	40.00nm					
ANM	80.14	22 eP	01 11.10	1.1	KBA	112.79	321	e(PKP)	07	31.00	-6.5X	ECB	121.01	333	ePKP	07	52.00	-0.8	
MAW	80.49	202 eP	01 13.00	1.2								MFF	121.20	325	ePKP	07	52.80	-0.6	
	0.9s	25.00nm	5.2mb										0.7s	15.45nm					
SVW	82.85	27 eP	01 25.60	1.3					07 35.70			LFF	121.58	323	ePKP	07	54.00	-0.1	
SLKM	85.21	29 eP	01 35.80	-0.4	VOY	112.82	319	ePKP	07	37.30	-0.2		0.8s	26.85nm					
IMA	85.24	23 ePd	01 37.30	0.9	GRF	113.06	324	e(Pdiff)	03	43.00	-0.4	EPF	122.83	321	ePKP	07	56.20	-0.5	
	1.6s	118.00nm	5.9mb		GRF	113.06	324	ePKP	07	38.00	0.3		0.8s	12.75nm					
BRW	85.92	18 eP	01 40.70	1.1	SOTA	114.08	321	iPKPc	07	39.70	-0.3	TUL	123.14	48	ePKPd	07	56.60	-0.8	
PMR	85.98	28 e(P)	01 38.20	-1.8									1.4s	47.00nm					
	2.0s	280.40nm	6.1mb						07 44.50			Z	21s	1.68um			5.7Msz		
		e	01 41.50		RSSD	114.17	42	ePKP	07	39.70	-0.7		LR	46 16.80					
SPA	87.26	180 iPd	01 45.80	-0.6								FVM	126.07	44	ePKP	08	02.30	-0.8	
	1.1s	54.76nm	5.7mb		CTI	114.27	320	PKP	07	39.90	-0.5	ELC	127.24	44	ePKP	08	04.90	-0.4	
		i	02 02.50		ARV	114.36	317	PKP	07	40.50	0.0	TOL	127.30	320	ePKP	08	09.00	3.6X	
COL	87.31	25 ePd	01 45.61	-0.8	GOL	114.71	47	e(PKP)	07	41.20	-0.4		RSCP	130.64	44	ePKP	08	11.00	-0.9
		ePc	01 49.75									WVLY	130.69	32	e(PKP)	08	08.70	-3.1X	
FBA	87.31	25 eP	01 45.90	-0.6								IFR	131.40	314	iPKPd	08	15.50	1.9	
TOA	87.46	28 eP	01 48.00	0.7	GLD	114.80	47	PKP	07	45.00	3.3X		TKL	131.83	43	ePKP	08	13.80	-0.3
KLU	87.47	28 ePc	01 47.80	0.4									BNH	132.58	25	e(PKP)	08	16.00	0.7
BALM	89.11	29 eP	01 54.80	-0.5	SFI	114.94	318	PKP	07	41.80	0.3	NAV	132.80	39	ePKP	08	15.70	-0.3	
KER	89.33	304 eP	01 46.00	-11.0X	OSS	114.96	321	ePKPc	07	41.70	-0.1	BLA	133.09	39	ePKP	08	16.10	-0.4	
INK	93.31	22 eP	02 13.00	-1.4	PGD	115.05	318	PKP	07	42.30	0.3		0.8s	11.74nm					
OBN	96.74	325 eP	02 16.00	-14.4X	ABH	115.11	325	ePKP	07	41.89	0.1	LVNJ	133.87	31	e(PKP)	08	14.50	-3.3X	
	Z	20s	2.20um	5.6Msz	ALO	115.24	53	ePKP	07	42.20	-0.5		JSC	134.31	42	ePKP	08	20.30	1.4
	N	24s	1.10um									LHS	134.50	42	ePKP	08	18.70	-0.5	
	E	24s	2.10um		ANMO	115.24	53	ePKP	07	43.50	0.8	KIC	139.16	276	PKP	08	21.80	-6.7X	
		e	02 28.00									TIC	139.42	277	PKP	08	23.14	-5.9X	
		e	05 12.00		LLS	115.60	322	ePKPc	07	42.70	-0.3	LIC	139.45	276	PKP	08	22.58	-6.5X	
		ePP	07 11.00		MEM	115.62	326	PKP	07	43.40	0.8	NNA	145.64	116	iPKPc	08	47.00	7.1X	
		e	13 08.00		CSF	115.95	324	ePKP	07	42.10	-1.4		1.4s	104.65nm					
		eSKKS	13 44.00		BSF	116.51	323	ePKP	07	43.60	-1.0	UPA	145.67	78	iPKP-	08	40.20	0.3	
		e	15 28.00									ARE	148.05	128	ePKP	08	48.00	4.0X	
		ePS	16 14.00		MMK	116.60	321	ePKPc	07	45.20	0.2	LPB	150.63	131	PKP	08	50.20	2.1	
		ePPS	17 43.00		SNF	116.61	327	PKP	07	44.70	0.2		1.0s	150.00nm					
		eSS	22 06.00		DOU	116.66	326	PKP	07	45.20	0.6			LR	59 36.00				
NAI	97.56	268 iP	02 38.00	2.8X								ZOBO	150.77	131	ePKPd	08	50.71	2.2	
NVL	97.66	196 eP	02 35.00	0.7	HAU	116.69	324	ePKP	07	43.90	-0.9		1.0s	130.00nm					
DSI	99.15	301 eP	02 41.00	-0.8									ec	08 54.35					
PRNI	99.53	300 eP	02 41.00	-2.6X	FRB	116.86	11	ePKP	07	44.00	-0.5		ed	08 56.33					
RMN	99.84	300 eP	02 44.00	-1.1	DIX	116.93	321	ePKPc	07	45.70	0.0		e	12 15.21					
BBTK	100.72	310 ePdiff	02 54.00	5.1X	CKI	117.10	319	PKP	07	44.50	-1.2		LR	59 48.00					
YKA	102.02	26 ePdiff	02 52.50	-1.5	EMS	117.24	322	ePKPc	07	45.70	-0.4	CCH	151.50	135	PKP	08	49.80	0.5	
	1.2s	2.80nm	4.8mb		EKA	117.43	334	PKP	07	47.00	1.1		i	08 55.30					
ORV	102.59	50 e(Pdiff)	03 00.90	3.8X									e	08 55.00					
CMB	103.65	52 ePdiff	03 03.40	1.5	LPG	117.61	321	ePKP	07	46.30	-0.7	VAO	154.36	177	ePKP	08	55.00	2.1	
		e	07 31.00										e	09 22.90					
PRI	103.65	54 e(Pdiff)	03 05.30	3.2X	LPL	117.61	321	ePKP	07	46.20	-0.7	BMA	154.66	183	ePKP	09	07.20	14.0X	
FRI	104.31	53 ePdiff	03 05.80	1.0								SIV	155.87	141	PKP	08	55.40	0.4	
UPP	105.58	332 ePdiff	03 04.00	-5.8X	BNJ	117.86	321	PKP	07	49.40	2.1	BDF	161.55	173	ePKPd	09	02.61	1.0	
SBB	106.14	55 ePKP	07 34.00	8.8X	SBF	117.89	319	ePKP	07	46.40	-0								

S.D. = 1.0 on 173 of 218 obs.

APR 23, 1991 02h 50m 22.65±1.37s
 13.087 N ± 7.7km 123.239 E ± 7.5km
 DEPTH = 40.0 ± 10.6 km
 5.2mb (13 obs.) 5.1msz (5 obs.)
 LUZON, PHILIPPINE ISLANDS (249)
 Felt at Legospi and in Mosbate
 and Comarines Provinces.

OCP 2.60 307 eP 51 04.00 0.7
 BAG 4.19 322 eP 51 24.00 -1.9
 TSM 10.18 211 iPd 52 48.50 -0.9
 QIZ 14.16 296 P 53 43.00 0.3

SSE N 15s 2.10um
E 14s 2.70um
18.02 354 P 54 32.00 0.2
Z 20s 9.20um
N 12s 2.10um
E 12s 4.90um
WHN 19.22 336 P 54 47.50 1.2
5.0s 900.00nm 5.3mb X
Z 20s 3.00um
E 13s 3.70um
NJ2 19.30 349 Pd 54 47.60 0.4
GYA 20.47 313 P 55 00.20 0.4
Z 18s 3.60um 4.8Msz
N 15s 4.90um
E 15s 2.70um
KUMJ 20.57 19 eP 55 01.70 1.0
LOE 21.19 284 eP 55 08.20 1.1
SHNJ 22.13 18 eP 55 18.50 2.1
NST 22.53 279 eP 55 26.80 6.4X
e 56 28.00
KMI 22.73 305 Pd 55 24.00 1.3
2.5s 360.00nm 5.4mb
Z 24s 7.40um 5.0MszX
N 14s 1.50um
E 14s 2.70um
SHK 23.00 20 eP 55 25.00 0.0
SNG 23.02 257 eP 55 27.00 1.7
e 01 16.10
TIA 23.67 348 eP 55 31.60 0.1
2.5s 500.00nm 5.6mb
Z 22s 3.90um 4.8Msz
N 11s 2.90um
KHT 23.98 277 eP 55 37.00 2.4
CHG 24.03 287 ePc 55 35.60 0.5
1.3s 28.85nm 4.6mb
e 56 44.00
eS 00 58.00
XAN 24.59 330 eP 55 39.90 -0.5
N 10s 2.60um
E 12s 1.80um
TSRJ 25.14 25 eP 55 45.40 -0.2
CD2 25.24 318 P 55 46.30 -0.4
Z 16s 4.64um 5.1MszX
E 13s 5.33um
TIY 26.35 340 eP 55 57.00 0.1
Z 14s 4.50um 5.2MszX
N 12s 2.70um
MAT 26.95 27 (P) 56 03.00 0.7
2.2s 153.85nm 5.2mb
Z 20s 6.03um 5.2Msz
eS 01 55.00
BJI 27.56 348 ePKP 56 08.00 0.2
N 12s 2.23um
ePP 57 20.00
eS 02 36.00
BJI 27.56 348 eP 56 08.00 0.2
N 12s 2.23um
SNY 28.63 1 Pc 56 16.80 -0.7
2.0s 100.00nm 5.1mb
Z 22s 5.80um 5.1Msz
E 14s 2.90um
LZH 28.79 326 eP 56 18.50 -0.7
2.0s 130.00nm 5.3mb
Z 23s 4.05um 5.0MszX
N 11s 2.04um
PP 56 33.00
HHC 29.49 342 eP 56 25.20 -0.2
1.4s 100.00nm 5.3mb
BTO 29.76 339 eP 56 26.90 -0.9
OFUJ 30.60 29 eP 56 33.50 -1.6
CN2 30.66 3 eP 56 35.00 -0.6
N 13s 1.50um
E 13s 3.30um
eS 01 37.00
MDJ 31.89 9 Pd 56 46.50 0.2
1.0s 80.00nm 5.5mb
N 12s 2.10um
E 12s 4.10um
SHL 32.00 297 iP 56 46.40 -1.4
eS 05 05.00
GTA 33.39 326 eP 56 59.20 -0.5
2.0s 70.00nm 5.2mb
LSA 33.99 304 P 57 05.40 0.0
PP 57 15.00
GUN 37.80 299 P 57 37.00 -0.6
PKI 38.12 298 P 57 39.20 -1.0
KKN 38.28 298 P 57 40.80 -0.7

DMN 38.39 298 P 57 41.80 -0.6
GKN 38.89 299 P 57 45.60 -0.9
WMO 43.19 322 P 58 22.50 1.0
GBA 44.52 276 Pd 58 32.00 -0.5
0.7s 4.90nm 4.4mb
NDI 45.42 297 eP 58 38.00 -1.6
POO 47.71 283 eP 58 58.50 0.6
GAR 53.22 309 eP 59 39.00 -0.6
i 00 25.00
ePP 02 39.00
iS 09 44.00
eSS 13 49.00
eSSS 16 54.00
e 20 00.00
QUE 54.49 298 eP 59 48.80 -0.4
1.0s 1035.00nm 6.8mb X
e 00 26.10
e(S) 10 32.00
SOD 80.56 337 eP 02 32.00 0.0
KAF 81.76 332 iP 02 38.20 -0.2
0.5s 3.90nm 4.7mb
esP 02 41.70
AAE 82.66 278 eP 02 50.00 5.6X
NUR 82.90 330 iP 02 47.60 3.3X
0.7s 16.00nm 5.2mb
i 02 54.00
VR1 85.20 316 eP 03 00.00 3.7X
e 07 18.00
MLR 85.82 316 ePc 03 03.00 3.4X
e 07 25.00
CMP 86.49 316 ePc 03 04.00 1.2
HFS 88.19 332 eP 03 09.60 -1.0
1.2s 12.30nm 5.1mb
Z 20s 2.46um 5.6Msz
e 03 13.00
e 03 17.10
LR 41 30.00
KSP 90.35 323 ePc 03 24.20 3.2X
PRU 91.71 322 eP 03 30.50 3.3X
KHC 92.62 322 eP 03 32.50 1.0
S.D. = 1.0 on 50 of 57 obs.
APR 23, 1991 03h 19m 19.00s
47.000 N 66.600 W
DEPTH = 5.0km (geophysicist)
3.3mb (1 obs.)
NEW BRUNSWICK (451)
<OTT-P>. mbLg 3.6 (OTT). Felt at
Bathurst and Beechwood.
CBM 1.04 267 P 19 39.00 -0.1
EMM 2.35 196 P 19 58.50 -0.3
MIM 2.44 225 P 20 00.00 -0.2
BNH 4.05 235 P 20 23.50 0.5
SCH 7.83 359 P 21 12.00 -4.2
0.4s 4.40nm 5.0mb X
YKA 30.87 318 eP 25 35.60 -2.4
0.5s 0.20nm 3.3mb
6 obs. associated
APR 23, 1991 04h 09m 58.84 ± 0.69s
45.917 N ± 5.8km 14.535 E ± 6.7km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.3 (LJU). ML 2.0 (KBA).
LJU 0.13 359 ePg 10 01.40 -0.5
iSg 10 03.00
CEY 0.19 203 ePg 10 03.40 0.2
eSg 10 07.90
VOY 0.46 285 ePg 10 08.30 0.0
eSg 10 15.60
RIY 0.58 190 e(Pg) 10 10.20 -0.4
iS 10 21.00
VBY 0.65 129 eP 10 22.00 10.1X
iSg 10 23.90
PTJ 0.99 90 ePg 10 18.00 0.3
eSg 10 29.30
KBA 1.42 325 iPg 10 25.30 0.4
i 10 26.30
i 10 43.80
iSg 10 44.80
S.D. = 0.5 on 6 of 7 obs.
APR 23, 1991 05h 13m 33.63 ± 1.31s
37.541 N ± 7.7km 2.276 W ± 11.7km
DEPTH = 10.0km (geophysicist)

SPAIN (377)
mbLg 3.4 (MDD).
ENIJ 0.57 175 ePg 13 45.00 -0.2
eSg 13 51.50
AFC 1.05 255 ePg 13 53.50 0.0
eSg 14 08.60
ECOG 1.06 256 ePg 13 54.50 0.8
EVIA 1.11 351 ePg 13 54.90 0.4
eSg 14 10.00
EBAN 1.35 298 ePn 13 57.50 -0.9
eSn 14 15.00
EHOR 2.37 278 ePn 14 17.60 4.4X
eSn 14 46.10
S.D. = 0.9 on 5 of 6 obs.
APR 23, 1991 05h 37m 05.53 ± 0.23s
9.555 N ± 3.4km 82.728 W ± 4.0km
DEPTH = 10.0km (geophysicist)
5.1mb (40 obs.) 5.2Msz (13 obs.)
PANAMA-COSTA RICA BORDER REGION (80)
MD 5.1 (SJR).
UPA 3.20 100 P 37 38.30 -18.6X
UPA 3.20 100 iPc- 37 57.70 0.8
(S) 38 34.70
CLMC 8.32 132 eP 39 08.90 -0.4
HOBC 8.34 128 eP 39 07.41 -2.1
ANCC 8.36 135 ePc 39 10.34 0.6
BUGC 8.54 131 eP 39 13.44 1.1
HOOC 8.56 135 eP 39 12.86 0.2
SILC 9.32 137 eP 39 25.20 1.9
PURC 9.57 138 ePc 39 27.79 0.8
CUMC 9.81 150 eP 39 31.08 0.9
BMG 9.87 104 eP 39 32.00 1.4
BOG 9.89 119 eP 39 35.00 3.8X
PSO 9.89 147 eP 39 32.50 1.2
COTA 10.15 154 eP 39 36.00 1.1
Sg 41 29.40
HOJ 10.21 34 eP 39 35.31 0.1
eS 41 29.70
HOJ 10.21 34 eP 39 35.51 0.3
eS 41 29.70
STH 10.23 33 iP 39 35.91 0.3
YHJ 10.26 35 eP 39 36.30 0.3
YANA 10.46 156 eP 39 40.50 1.4
OUR 10.53 156 ePd 39 41.50 1.5
CAYA 10.53 153 eP 39 42.20 2.1
OTO 10.56 156 eP 39 41.60 1.1
VC1 11.00 157 eP 39 40.10 -6.5X
ANGL 11.15 152 eP 39 37.20 -11.3X
TOV 12.76 88 eP 40 08.50 -1.4
CEOS 14.22 91 iP 40 27.50 -1.7
MORO 14.25 83 iP 40 28.90 -0.7
OXX 15.53 300 iP 40 47.70 1.2
CAR 15.59 85 iP 40 48.00 0.8
OLLA 15.70 87 iP 40 48.10 -0.5
LRS 17.68 59 P 41 15.50 1.8
PORP 17.75 60 P 41 17.00 2.5
PPM 18.06 303 iP 41 20.50 1.6
SJJ 18.19 60 eP 41 23.00 3.0X
CPD 18.36 61 P 41 24.50 2.4
ILI 18.45 300 iP 41 26.00 2.6X
LPR 18.52 60 P 41 27.00 2.9X
PAG 21.50 70 eP 41 58.00 1.1
eTT 55 00.00
BBL 21.57 72 eP 41 57.00 -0.5
BPA 21.62 68 eP 41 58.00 0.0
FDF 21.71 74 eP 42 05.00 6.1X
S 44 51.00
MGG 21.81 71 eP 42 00.00 0.1
DEG 22.15 70 eP 42 01.00 -2.4
PRM 24.41 1 eP 42 27.90 2.6
JSC 24.64 3 ePc 42 29.90 2.4
LHS 24.87 4 ePc 42 32.30 2.6
TKL 26.00 358 ePc 42 41.70 1.3
GBTN 26.03 357 eP 42 42.40 1.8
RSCP 26.05 355 eP 42 42.00 1.1
OLY 27.03 344 eP 42 49.90 0.1
BLA 27.61 4 eP 42 56.90 1.7
NAV 27.69 3 eP 42 57.70 1.8
ARE 28.14 157 eP 43 02.00 1.6
CVL 28.56 7 ePc 43 05.60 1.9
TUL 28.81 338 eP 43 04.50 -1.4
1.6s 19.70nm 4.7mb
Z 22s 3.23um 4.9Msz
eS 48 01.20

			LR	51	40.50			EVAL	73.14	54	eP	48	38.00	-0.4			e	00	24.00			
CBN	28.93	9	eP	43	15.00	8.1X		SVW	73.44	331	eP	48	38.80	-0.9		LZH	134.18	353	e(PKP)	56	08.00	-17.8X
MEQ	29.00	332	e(P)	43	06.50	-1.2		IMA	73.63	336	eP	48	40.00	-0.9		Z	24s	1.04um			5.5MsZ	
FVM	29.14	347	eP	43	09.80	0.9			1.1s	27.00nm				5.2mb		E	18s	0.93um				
	1.1s	36.59nm				5.1mb		EPLA	73.71	51	eP	48	41.50	-0.2				i	56	27.00		
ZOBO	29.45	150	Pc	43	10.70	-1.8		EJIF	74.16	55	eP	48	45.04	0.7		WHN	136.89	338	PKPd	56	24.30	-6.6X
	1.2s	22.97nm				4.9mb		IFR	74.48	58	iP	48	47.00	0.5		ASPA	142.33	244	iPKPd	56	34.90	-6.1X
		eLR		53	02.00			DAG	74.92	12	iPc	48	46.30	-1.7			0.8s	14.70nm				
LPB	29.69	151	P	43	16.00	1.5			0.5s	10.56nm				5.1mb		GYA	143.06	346	PKP	56	39.80	-2.5X
	Z	18s				5.4MsZ		MAL	75.01	55	iPd	48	50.50	1.2				pPKP	56	48.00		
		LR		53	00.00			TOL	75.27	51	eP	48	51.00	0.3		KMI	145.12	351	ePKP	56	43.50	-2.5X
CCH	31.39	148	P	43	28.30	-1.1				ePP		51	50.00					ePKP	56	50.00		
CLE	31.82	2	iP	43	34.40	1.8				eS		58	33.00			BAG	145.39	318	ePKP	56	44.00	-2.6X
LVNJ	31.92	11	ePd	43	35.60	2.2				eSS		03	38.00			WARB	147.64	235	ePKP	56	50.00	0.2
PNJ	32.14	12	iP	43	38.00	2.7X				eSSS		06	45.00			KNA	148.68	255	ePKP	56	55.00	3.3X
WVLY	32.99	6	eP	43	43.80	1.0		BRW	75.90	341	eP	48	53.60	-0.1		OIZ	149.01	336	ePKP	56	45.60	-6.5X
SIV	33.23	140	P	43	42.20	-2.9X		EKA	76.27	35	Pc	48	54.50	-1.5			N	20s	1.70um			
ALO	33.30	323	eP	43	46.00	0.2			1.2s	15.10nm				5.0mb		GBA	149.72	41	PKPd	56	55.90	2.7X
	1.0s	8.00nm				4.6mb		EHUE	76.44	53	eP	48	58.10	0.6			0.8s	3.50nm				
	Z	19s				4.9MsZ		TIC	76.85	85	Pc	48	59.18	-0.9		CHG	151.76	357	ePKP	57	07.50	11.2X
ANMO	33.30	323	P	43	46.50	0.7			0.9s	14.00nm				5.0mb		KOD	152.16	46	ePKP	57	03.10	5.7X
	Z	20s				5.0MsZ		LIC	76.90	86	Pc	48	59.54	-0.8		LOE	152.85	351	ePKP	57	07.00	9.2X
GLD	36.14	330	P	44	15.00	4.9X			0.9s	21.50nm				5.2mb			S.D. = 1.3	on 137	of 168	obs.		
	Z	19s				5.1MsZ		KIC	77.16	86	Pc	49	01.18	-0.7								
GOL	36.18	330	eP	44	09.80	-0.7			0.9s	14.50nm				5.1mb			APR	23, 1991	05h	52m	38.44±	0.22s
RSSD	39.09	335	eP	44	35.80	1.0		LPF	77.41	43	eP	49	01.40	-1.1			44.470	N ± 1.8km		6.754	E ± 2.2km	
	1.3s	36.95nm				4.9mb			1.3s	28.90nm				5.2mb			DEPTH =	12.2 ± 2.2	km			
MSU	39.10	322	ePc	44	35.70	0.7		GRR	77.53	43	eP	49	02.00	-1.2			FRANCE					(538)
CBM	39.27	16	eP	44	38.30	2.3			1.0s	22.00nm				5.2mb			ML 2.9	(GEN), 2.9	(LDG).			
BW06	40.57	329	eP	44	45.50	-1.6		FLN	77.78	42	eP	49	03.50	-1.0								
TNP	42.03	318	ePc	44	59.60	0.5			1.2s	35.70nm				5.3mb		PZZ	0.25	82	P	52	44.49	0.5
	1.2s	13.44nm				4.5mb		Z	20s	2.10um				5.5MsZ				S	52	48.92		
BONR	42.68	317	ePc	45	05.60	1.0		LDF	78.02	42	eP	49	04.90	-1.0				S	52	46.00	0.1	
ROCH	43.74	166	eP	45	12.50	-0.6			1.1s	24.40nm				5.2mb		DOI	0.35	84	Pc	52	50.50	
PEL	43.98	165	iPc	45	14.00	-0.9		MFF	78.04	44	eP	49	05.20	-0.8				eSg	52	50.50		
CMB	44.13	316	e(P)	45	16.50	0.4			1.2s	23.80nm				5.2mb		RRL	0.45	3	P	52	47.36	-0.4
LRM	44.20	330	eP	45	16.70	-0.1		BTH	78.09	48	eP	49	12.00	5.6X				S	52	53.54		
MDZ	44.23	163	i(P)	45	17.10	0.2			1.2s	23.80nm				5.2mb		STV	0.47	119	P	52	47.98	-0.1
SAN	44.28	166	eP	45	16.50	-0.8		EPF	78.50	48	eP	49	08.30	-0.4				S	52	54.43		
PCH	44.48	165	eP	45	18.00	-0.9			1.2s	16.35nm				5.0mb		ENR	0.54	117	P	52	49.05	-0.3
LVN	44.59	167	eP	45	17.50	-2.1		LPO	79.04	46	eP	49	10.50	-1.1				S	52	56.49		
BKS	45.33	315	eP	45	34.00	8.3X			1.1s	24.40nm				5.1mb		TOUF	0.58	142	Pg	52	49.91	-0.2
	Z	20s				5.0MsZ		RJF	79.24	46	eP	49	11.40	-1.3				P	52	49.80	-0.4	
	N	20s							1.4s	34.85nm				5.2mb		BNI	0.59	355	P	52	49.80	-0.4
	E	20s						Z	22s	1.35um				5.2MsZ				eSg	52	57.50		
		e		55	50.00			CAF	79.65	46	eP	49	13.90	-1.0				Pg	52	50.91	-0.3	
		e		58	50.00				1.3s	25.25nm				5.0mb		AUTN	0.68	134	Pg	52	51.88	0.0
		eLR		02	00.00			TCF	79.68	45	eP	49	13.70	-1.3				Pg	52	52.40	0.0	
ORV	45.65	317	eP	45	28.20	0.1			1.1s	9.75nm				4.7mb		AURF	0.71	144	Pg	52	52.47	-0.1
MIN	46.12	318	e(P)	45	28.00	-4.0X		MAF	79.93	45	eP	49	14.80	-1.6				Pg	52	52.47	-0.1	
LBFM	46.82	319	eP	45	37.40	-0.2			1.0s	9.00nm				4.7mb		SAOF	0.75	130	Pg	52	53.16	0.2
SCH	46.89	13	eP	45	38.00	0.2		BGF	80.10	44	eP	49	15.90	-1.4				Sg	53	03.04		
SES	46.96	335	eP	45	38.00	-0.4			1.1s	17.10nm				4.9mb		RSP	0.77	28	P	52	53.82	0.5
FFC	47.59	345	ePc	45	42.10	-1.1		AVF	80.44	44	eP	49	17.30	-1.7				S	53	04.18		
	1.2s	25.00nm				5.2mb			1.2s	8.95nm				4.6mb		SBF	0.78	141	Pg	52	53.30	-0.2
VAO	47.67	133	eP	45	41.50	-2.9X		SSF	80.52	44	eP	49	17.70	-1.8				Sg	53	04.00		
		e		45	48.50				0.8s	6.70nm				4.7mb		ROB	0.82	102	P	52	54.54	0.4
		e		46	02.80			LOR	80.75	44	eP	49	18.80	-1.9				S	53	05.41		
PDCR	48.56	116	eP	45	39.50	-11.8X			1.4s	30.50nm				5.1mb		REVF	0.85	149	Pg	52	55.05	0.3
		e		45	48.40			Z	18s	2.00um				5.5MsZ		FRF	0.91	185	Pg	52	55.70	0.0
EDM	50.05	336	eP	46	02.00	-0.3		SMF	80.78	44	eP	49	19.00	-1.9				Sg	53	08.40		
LPA	50.06	153	eP+	46	02.00	-0.6			0.8s	5.35nm				4.6mb		LPG	1.03	360	Pg	52	57.90	0.0
	Z	20s				5.3MsZ		LBF	80.85	44	eP	49	19.10	-2.2				Sg	53	09.80		
PNT	50.14	329	eP	46	02.00	-1.0		HAU	82.36	43	eP	49	27.50	-1.6				Pg	52	58.20	0.1	
	1.0s	31.00nm				5.2mb			Z	21s	1.65um			5.4MsZ		LPL	1.05	359	Pg	52	58.90	
GMW	50.75	326	eP	46	05.30	-2.4		BSF	82.68	43	eP	49	29.10	-1.8				Sg	53	10.90		
FRB	55.04	8	eP	46	37.00	-2.4		LPG	82.90	45	eP	49	29.60	-2.7X				Pg	52	59.40	1.3	
YKA	57.66	343	eP	46	56.50	-1.7			1.2s	8.95nm				4.8mb		CDR	1.07	222	ePg	52	58.70	0.4
	1.0s	16.70nm				5.0mb		NB2	83.62	29	P	49	34.70	-0.7				i	53	00.10		
INK	67.36	342	eP	48	02.00	-0.7			1.1s	9.30nm				4.9mb				eSg	53	12.90		
	1.2s	93.00nm				5.8mb		HFS	84.98	30	eP	49	40.50	-1.6				P	52	58.95	0.4	
RUV	68.61	250	iP	48	11.70	0.4			0.9s	4.80nm				4.7mb				S	53	12.64		
	0.8s	20.00nm				5.4mb		Z	16s	0.76um				5.2MsZ		CKI	1.09	92	P	52	59.30	0.5
TPT	68.77	250	iP	48	12.70	0.4				e		49	48.30					eSg	53	13.10		
	0.8s	15.00nm				5.2mb				LR		17	02.00					Pg	53	00.30	0.6	
VAH	68.85	250	iP	48	13.30	0.5		ADK	85.00	322	e(P)	49	41.80	-0.6				Sg	53	15.40		
	0.8s	15.00nm				5.2mb		GRF	85.34	41	e(P)	49	45.00	0.8				P	53	02.44	0.4	
PMO	69.03	250	iP	48	14.30	0.4		MOX	85.43	40	eP	49	44.50	-0.1				S	53	17.90		
	0.8s	30.00nm				5.5mb			Z	18s	1.10um			5.3MsZ		PGF	2.52	139	Pn	53	18.97	-1.0
TOA	69.33	333	ePc</																			

& APR 23, 1991 05h 54m 48.00s
47.000 N 66.600 W
DEPTH = 5.0km (geophysicist)
NEW BRUNSWICK (451)
<OTT-P>. mblg 2.8 (OTT).

CBM	1.04	267 P	55	08.20	0.1
EMM	2.35	196 P	55	32.00	4.2
MIM	2.44	225 P	55	29.20	0.0
BNH	4.05	235 P	56	01.00	9.0
SCH	7.83	359 P	56	43.00	-2.2

5 obs. associated

APR 23, 1991 05h 55m 49.16±0.36s
9.878 N ± 6.2km 82.841 W ± 8.4km
DEPTH = 10.0km (geophysicist)
4.9mb (25 obs.)
PANAMA-COSTA RICA BORDER REGION (80)

UPA	3.38	105 (P)	57	06.40	23.3X
ANCC	8.67	136 eP	57	58.71	1.1
SILC	9.63	137 eP	58	12.54	1.3
PURC	9.89	139 ePc	58	16.19	1.2
CUMC	10.14	151 eP	58	19.04	0.6
TPX	10.47	299 (P)	58	24.70	2.3
PPM	17.79	303 iP	00	00.60	1.4
TUL	28.47	338 eP	02	00.30	13.8X
	1.0s	9.00nm			
ARE	28.48	157 eP	01	47.00	-0.1
ZOBO	29.78	151 P	01	57.00	-2.2
LPB	30.02	151 P	02	02.00	0.9
ALO	32.98	323 eP	02	25.50	-1.1
	1.0s	3.25nm			4.2mb
LRM	43.87	330 eP	03	57.40	-0.3
PCH	44.82	165 eP	04	03.50	-1.8
LNK	44.92	167 eP	04	04.00	-2.0
PNT	49.81	329 eP	04	48.00	3.9X
YKA	57.32	343 eP	05	37.00	-2.4
	0.8s	4.20nm			4.5mb
INK	67.02	342 eP	06	44.00	-0.2
IFR	74.41	58 iP	07	36.00	6.3X
EKA	76.07	35 P	07	44.50	6.0X
	1.1s	15.10nm			5.0mb
LIC	76.99	86 (P)	07	44.30	-0.2
KIC	77.25	86 (P)	07	46.00	0.1
LPF	77.25	43 eP	07	45.50	0.2
	1.1s	17.10nm			5.1mb
GRR	77.37	43 eP	07	46.30	0.4
	1.2s	35.70nm			5.3mb
FLN	77.62	42 eP	07	47.90	0.6
	1.3s	32.50nm			5.3mb
LDF	77.86	42 eP	07	49.00	0.4
	1.1s	31.75nm			5.3mb
MFF	77.89	44 eP	07	49.50	0.7
	0.8s	6.70nm			4.8mb
EPF	78.37	48 eP	07	52.50	0.9
	1.3s	16.25nm			4.9mb
LFF	78.57	46 eP	07	53.00	0.4
	0.8s	9.40nm			4.9mb
LPO	78.90	46 eP	07	54.80	0.4
	1.2s	20.85nm			5.0mb
CAF	79.51	46 eP	07	58.20	0.4
	1.2s	11.90nm			4.8mb
TCF	79.53	45 eP	07	57.80	-0.1
	0.9s	4.90nm			4.5mb
MAF	79.78	45 eP	07	59.10	-0.1
	1.1s	9.75nm			4.7mb
BGF	79.95	44 eP	08	00.00	-0.1
	1.0s	11.00nm			4.8mb
AVF	80.28	44 eP	08	01.50	-0.3
	1.2s	11.90nm			4.8mb
SSF	80.37	44 eP	08	01.80	-0.5
	1.2s	14.90nm			4.9mb
LOR	80.59	44 eP	08	03.30	-0.2
	1.2s	10.40nm			4.7mb
SMF	80.63	44 eP	08	03.20	-0.5
	1.4s	17.45nm			4.9mb
BSF	82.52	43 eP	08	13.40	-0.3
CDF	82.78	42 eP	08	14.80	-0.2
NB2	83.40	29 P	08	18.40	0.5
	0.9s	9.90nm			5.0mb
HFS	84.76	30 eP	08	24.10	-0.5
	0.8s	5.50nm			4.8mb
				08 30.50	
GRF	85.17	41 e(P)	08	29.30	2.3X
				08 34.30	
MOX	85.26	40 eP	08	34.00	6.6X

CLL	1.8s	27.00nm	5.2mb
	86.00	39 iPd	08 37.80 6.7X
	1.3s	24.00nm	5.2mb
BRG	86.67	39 iP	08 41.00 6.6X
	1.0s	14.00nm	5.1mb
UPP	86.75	30 iP	08 34.80 0.3
		i	08 39.30
KHC	86.78	41 iPc	08 42.00 7.0X
KBA	87.03	43 e(P)	08 35.50 -0.9
	1.4s	14.60nm	5.0mb
		i	08 41.80
PRU	87.22	40 eP	08 43.60 6.5X
GKN	140.44	18 PKP	15 19.64 -1.7X
KKN	140.83	17 PKP	15 15.22 -6.9X
ASPA	142.37	244 ePKP	15 18.30 -6.4X
	0.8s	10.00nm	
GBA	149.55	40 PKPd	15 40.20 3.6X
	0.6s	6.60nm	
MUN	151.81	216 ePKP	15 45.90 6.3X
KOD	152.02	45 ePKP	15 46.90 6.1X

S.D. = 1.0 on 39 of 56 obs.

* APR 23, 1991 06h 02m 21.35±0.51s
9.768 N ± 8.6km 83.631 W ± 15.9km
DEPTH = 10.0km (geophysicist)
4.7mb (12 obs.)
COSTA RICA (78)
MD 4.6 (SJR).

NNA	22.64	163 eP	07	23.50	-0.6
	1.2s	15.63nm			4.4mb
PRM	24.23	3 eP	07	41.50	2.2
JSC	24.49	5 eP	07	43.50	1.6
TKL	25.77	360 eP	07	54.90	0.9
RSCP	25.77	356 eP	07	54.80	0.7
GBTN	25.78	359 eP	07	54.90	0.7
ELC	27.86	350 eP	08	13.10	0.0
ARE	28.70	155 eP	08	24.00	2.8
FVM	28.75	349 eP	08	21.10	-0.1
	1.1s	13.41nm			4.6mb
ZOBO	30.08	149 P	08	34.00	0.0
LPB	30.32	149 eP	08	23.00	-12.9X
CCH	32.04	147 eP	08	51.00	0.1
ANMO	32.60	324 e(P)	08	55.00	-0.5
	1.0s	3.75nm			4.3mb
WVLY	32.88	7 ePc	08	57.40	-0.2
MSU	38.39	323 eP	09	50.00	5.1X
RSSD	38.53	336 eP	09	45.70	-0.3
	1.1s	21.74nm			4.8mb
SES	46.40	336 eP	10	50.00	0.2
SCH	46.88	13 eP	10	52.00	-1.5
FFC	47.15	346 ePc	10	54.70	-0.9
	0.7s	6.00nm			4.8mb
EDM	49.50	337 eP	11	13.50	-0.5
PNT	49.50	330 eP	11	15.00	1.0
FRB	54.95	8 eP	11	51.00	-3.6X
YKA	57.20	343 eP	12	01.50	-9.3X
	1.0s	5.50nm			4.5mb
INK	66.88	342 eP	13	15.00	-0.5
FBA	70.39	336 ePc	13	36.30	-0.9
	0.8s	7.76nm			4.9mb
IMA	73.08	336 ePc	13	52.70	-0.8
	1.0s	5.63nm			4.6mb
TIC	77.72	85 P	14	19.80	-0.9
	0.8s	7.00nm			4.8mb
LIC	77.77	86 P	14	20.18	-0.8
	0.7s	9.50nm			5.0mb
KIC	78.03	86 P	14	21.72	-0.7
	0.9s	8.00nm			4.8mb
NB2	83.87	29 P	14	51.70	-0.8
	1.0s	4.20nm			4.6mb
CLL	86.58	39 eP	15	06.00	-0.1
ASPA	141.63	244 ePKP	21	51.20	-4.4X
	1.0s	6.40nm			
GBA	150.13	39 PKPd	22	14.00	4.3X
	0.9s	5.70nm			

S.D. = 1.1 on 27 of 33 obs.

* APR 23, 1991 06h 07m 43.68±0.88s
47.682 N ± 12.6km 147.030 E ± 15.2km
DEPTH = 400.8 ± 12.7 km
4.3mb (9 obs.)
NORTHWEST OF KURIL ISLANDS (220)
ASAJ 4.70 222 P 09 05.50 2.4
KUSJ 4.87 200 P 09 03.50 -1.3
S 10 04.20

HOOJ	5.92	208 eP	09	15.40	-0.6
		eS		10 24.30	
MRRJ	6.74	221 eP	09	25.30	0.3
		eS		10 43.70	
OFUJ	9.44	206 eP	09	54.80	-1.2
		eS		11 41.00	
MAT	12.90	214 eP	10	36.00	0.3
FBA	38.03	39 ePc	14	27.20	1.1
	0.5s	2.58nm			3.8mb
YKA	52.61	35 eP	16	18.90	-0.8
	0.6s	1.10nm			3.4mb
KAF	60.77	332 iP	17	16.00	-0.3
	0.5s	3.40nm			4.1mb
		esP		17 16.40	
NUR	62.51	332 eP	17	27.70	0.0
FFC	62.61	38 iPc	17	28.50	0.0
	0.6s	6.00nm			4.4mb
FRB	65.43	17 eP	17	45.00	-1.3
NB2	65.91	338 P	17	49.30	-0.2
	0.6s	5.40nm			4.4mb
HFS	66.04	337 eP	17	49.60	-0.6
	0.6s	10.30nm			4.7mb
ASPA	71.99	193 eP	18	27.00	0.6
	1.3s	7.20nm			4.1mb
CLL	73.79	332 i(P)	18	36.90	0.4
	0.7s	11.00nm			4.6mb
ALO	74.78	55 eP	18	43.20	0.5
TUL	79.64	47 iP	19	09.20	0.5
	0.6s	3.90nm			4.3mb
PDCR	144.58	10 ePKP	26	34.80	0.2

S.D. = 1.0 on 19 of 19 obs.

* APR 23, 1991 06h 13m 19.90±0.78s
9.491 N ± 14.0km 82.872 W ± 16.7km
DEPTH = 10.0km (geophysicist)
4.5mb (3 obs.)
PANAMA-COSTA RICA BORDER REGION (80)

UPA	3.33	98 iP	14	14.90	1.8
		(S)		14 47.00	
ANCC	8.42	134 eP	15	24.71	-0.2
SILC	9.37	136 eP	15	38.92	0.5
NNA	22.16	164 eP	18	17.20	-0.7
	1.3s	19.23nm			4.4mb
ZOBO	29.46	150 eP	19	28.00	1.0
ALO	33.27	323 e(P)	20	02.00	2.1
FFC	47.61	345 ePd	21	58.00	0.2
	0.7s	5.00nm			4.7mb
YKA	57.68	343 eP	23	11.40	-1.3
	0.8s	3.40nm			4.4mb
INK	67.38	342 eP	24	17.50	0.3
TIC	76.99	85 P	25	14.00	-1.3
LIC	77.05	86 P	25	14.40	-1.2
KIC	77.31	86 P	25	15.70	-1.3
ASPA	142.18	244 ePKP	32	50.30	-4.8X
	0.9s	4.60nm			

S.D. = 1.3 on 12 of 13 obs.

APR 23, 1991 06h 34m 05.97±0.37s
14.002 N ± 3.2km 91.652 W ± 2.7km
DEPTH = 68.6 ± 3.0 km
5.3mb (75 obs.)
GUATEMALA (70)
mb 5.3 (PAS). Mo=2.0*10**17 Nm
(PPT). Felt at Quezaltenango and San Marcos. Also felt at Puerto Madero and Tapochula, Mexico.
Felt (II) at San Salvador, El Salvador.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 39C
Centroid Location:
Origin Time 06:34: 9.5 0.9
Lat 14.04N 0.08 Lon 91.85W 0.08
Dep 37.2 6.1 Half-duration 3.1
Moment Tensor: Scale 10**17 Nm
Mrr=-3.39 0.31 Mtt= 4.00 0.39
Mff=-0.60 0.52 Mrt=-4.48 0.90
Mrf= 2.77 0.64 Mtf=-1.53 0.37
Principal Axes:
T Val= 7.01 Plg=26 Azm=202
N -0.82 10 297
P -6.18 61 46
Best Double Couple:Ma=6.6*10**17
NP1:Strike=268 Dip=21 Slip=-120
NP2: 120 72 -79

23d 06h

JAT	0.31	3	iPd	34	14.80	-2.4	TPC	29.81	316	eP	40	09.00	0.2	PNT	42.03	333	iPd	41	53.40	1.2
SOG2	0.72	6	eP	34	11.00	-10.3X				e	43	15.00			1.0s	346.00nm			6.1mb	
OC2	0.76	317	iPd	34	16.50	-5.1X	PLM	29.93	314	eP	40	10.00	0.0	GMW	42.29	329	iPd	41	54.10	-0.3
PSG2	0.81	93	iPc	34	22.00	-0.3				e	43	15.00		EDM	42.74	341	ePd	41	57.50	-0.5
TER	0.99	72	iPc	34	23.80	-0.7	DLA	30.04	15	P	40	10.45	-0.1	MCW	43.08	330	ePd	42	01.30	0.5
PCG	1.04	69	iPc	34	25.50	0.0	LDN	30.31	15	P	40	11.80	-1.1	PGC	43.36	329	ePd	42	04.00	1.0
TPX	1.07	327	iP	34	22.25	-3.4X	ELF	30.42	15	P	40	12.70	-1.2		1.2s	150.00nm			5.7mb	
BVA	1.18	56	iPc	34	28.00	0.7	MSU	30.43	327	iPd	40	15.10	0.7	SCH	45.11	20	ePd	42	15.90	-1.1
SBG	1.19	341	iPd	34	23.40	-4.1X	PEC	30.44	315	ePd	40	14.20	-0.1		1.0s	172.00nm			5.8mb	
CGG	1.23	62	eP	34	29.00	1.2	LVNJ	30.51	26	ePd	40	14.50	-0.2	ROCH	50.70	157	eP	43	00.50	-0.5
			S	34	45.00		WVLY	30.54	19	eP	40	14.30	-0.7	PEL	50.98	157	iPc	43	02.00	-0.9
SLP	1.52	61	iPc	34	31.00	-0.7	PNJ	30.85	26	iP	40	18.00	0.3	YKA	51.10	347	eP	43	02.40	-1.0
CUSS	1.66	93	iPc	34	34.70	1.2				PP	41	13.60			0.6s	17.70nm			5.3mb	
TME	2.23	89	iPc	34	43.50	2.1				PcP	43	14.80		SAN	51.26	157	eP	43	04.00	-1.0
SJAS	2.44	98	iPd	34	45.10	0.7	TBR	31.01	26	ePd	40	18.70	-0.5	LNK	51.44	158	iPc	43	05.00	-1.3
SCX	2.88	341	iP	34	52.79	2.4	GSC	31.02	318	eP	40	20.00	0.6	MDZ	51.46	155	i(P)	43	06.90	0.3
			iS	35	31.42					e	43	16.00		PCH	51.47	157	ePc	43	05.70	-1.0
OXX	5.77	303	iP	35	29.24	-1.9	MWC	31.24	315	eP	40	22.00	0.5	FR8	52.24	13	ePd	43	10.20	-1.7
			(S)	36	07.18					e	43	31.00		SOB1	55.39	112	eP	43	35.70	-0.1
IISM	7.40	313	iP	35	47.57	-6.0X	PAS	31.28	315	eP	40	21.00	-0.6				e	43	40.90	
IIT	8.10	309	iP	36	03.93	0.4				eP	40	41.00	87kmX	VAO	57.15	130	eP	43	47.10	-1.2
			(S)	37	24.91					eS	45	28.00					e	43	52.80	
PPM	8.37	308	iP	36	07.57	0.0				eLg	48	32.00		CAI	57.81	107	iPd	43	53.00	0.0
			(S)	37	29.36		SBB	31.34	316	eP	40	22.00	-0.3	PDCR	58.35	114	eP	43	56.10	-0.6
IIA	8.44	308	iP	36	08.09	0.1				e	43	18.00					e	44	00.20	
			(S)	37	50.77		DAU	31.41	331	ePd	40	23.70	0.6	BMA	59.11	127	(P)	44	19.00	17.0X
III	8.68	301	iP	36	09.72	-1.7	RSSD	31.83	343	ePd	40	25.50	-1.1	BALM	59.38	334	eP	44	03.60	0.2
			(S)	38	00.22					1.0s	50.98nm	5.3mb	INK	60.53	343	ePd	44	10.90	-0.1	
CRX	9.38	306	iP	36	24.56	3.4X	Z	20s		3.95um		5.1msz			1.0s	117.00nm			6.0mb	
CRX	9.38	306	(P)	36	20.50	-0.7				eScP	47	03.00					pP	44	54.00	186kmX
MRX	10.75	303	iP	36	38.70	-0.7	CLC	31.84	318	eP	40	27.00	0.4	KLU	61.12	334	iPd	44	15.50	0.2
GCM	11.16	60	eP	36	46.80	1.9	DUG	32.01	329	ePd	40	28.90	0.8	TOA	61.50	334	ePd	44	19.40	1.6
CGX	12.64	298	(P)	37	04.00	-0.9	ISA	32.33	317	eP	40	32.00	1.1	RUV	62.28	244	iP	44	21.70	-1.8
UPA	12.88	111	iP-	37	06.00	-1.8				e	43	22.00			1.2s	165.00nm			6.0mb	
MZX	16.71	305	(P)	37	59.13	1.9	BW06	32.57	335	ePc	40	31.60	-1.4	TPT	62.40	245	iP	44	22.30	-2.0
COTA	18.92	135	eP	38	25.30	0.5				0.8s	23.81nm	5.1mb		1.2s	75.00nm			5.7mb		
PSO	19.05	131	eP	38	27.00	0.9	SYP	32.74	314	eP	40	41.00	6.5X	VAH	62.52	244	iP	44	23.20	-1.9
YANA	19.09	136	eP	38	27.80	1.1	TNP	33.00	321	P	40	37.20	0.4		1.2s	120.00nm			5.9mb	
OUR	19.16	136	eP	38	28.40	1.0				0.9s	41.99nm	5.3mb	PMR	62.57	333	iPd	44	25.50	0.8	
OTO	19.19	136	eP	38	29.00	1.3	PTI	33.86	332	ePd	40	44.20	0.1		1.4s	206.40nm			6.0mb	
CAYA	19.35	135	eP	38	30.70	1.2	FRI	33.91	318	iPd	40	44.30	-0.2	SLKM	62.65	332	ePc	44	25.30	-0.1
BMG	19.51	109	eP	38	32.00	1.3	PR1	34.08	316	iPd	40	46.80	0.7	PMO	62.66	245	iP	44	24.20	-1.8
VC1	19.59	137	eP	38	33.70	1.7	PRS	34.66	315	eP	40	51.30	0.4		1.2s	70.00nm			5.6mb	
BOG	19.68	117	iPd	38	36.00	3.2X	SAO	34.94	316	eP	40	58.00	4.7X	FBA	63.38	337	iPd	44	30.40	0.3
ANGL	19.99	135	eP	38	26.10	-10.1X	CMB	34.95	319	iPd	40	54.00	0.5	RSO	63.82	331	iP	44	33.10	-0.2
OLY	21.41	0	ePd	38	48.70	-1.2				eScP	47	11.70		PDB	64.29	330	iP	44	35.70	-0.4
PRM	21.69	21	ePd	38	53.60	0.8	MHC	35.39	317	iPd	40	58.30	1.0	PAE	65.23	243	iP	44	41.10	-1.7
TUL	22.13	351	ePd	38	56.30	-0.8				eScP	47	15.00			1.2s	115.00nm			5.7mb	
	1.0s	584.30nm			6.0mb		BKS	36.07	317	iPd	41	02.00	-0.9	SVW	65.35	331	ePd	44	43.00	0.0
Z	20s	6.69um			5.1msz					Z	20s	7.00um	5.4msz	TTA	66.05	333	eP	44	47.40	-0.1
		eS		42	51.90					N	20s	6.00um		IMA	66.09	337	iPd	44	47.90	0.1
		LR		45	26.70					E	20s	11.00um			1.1s	36.90nm			5.3mb	
RSCP	22.19	13	ePd	38	57.50	-0.3				iPP	42	40.00		SDN	66.58	325	eP	44	51.40	0.6
	Z	20s	5.99um		5.0msz					iS	46	48.00		BRW	68.94	342	eP	45	06.10	0.8
JSC	22.27	23	ePd	38	59.30	0.8				eSSS	49	46.00		ANM	70.47	334	ePd	45	16.00	1.2
GBTN	22.59	16	eP	39	02.20	0.6				eLO	50	14.00		AKU	70.57	25	iP	45	15.90	0.6
LHS	22.63	24	ePc	39	03.20	1.2				eLR	52	55.00			0.8s	14.93nm			5.0mb	
TKL	22.70	17	ePd	39	03.00	0.3	BRK	36.09	317	eP	41	03.80	0.8	DAG	72.56	13	iPc	45	26.10	-1.0
ELC	23.29	5	iPd	39	08.30	-0.1				Z	20s	10.00um	5.6msz		0.7s	24.66nm			5.2mb	
FVM	23.91	2	ePd	39	13.10	-1.3	ARE	36.23	146	eP	41	06.00	1.3	ECB	75.93	39	eP	45	45.70	-1.2
	0.8s	75.76nm			5.2mb		LRM	36.25	335	ePd	41	05.20	0.6		1.7s	58.00nm			5.2mb	
		ePP		39	29.80					e	43	31.90		ADK	76.07	320	eP	45	48.00	0.3
ALO	24.76	330	iPd	39	24.00	1.1	ORV	36.55	320	eP	41	08.30	1.5		0.7s	103.40nm			5.9mb	
	0.9s	172.27nm			5.5mb		MIM	36.56	27	ePc	41	06.80	0.0	ECP	76.20	39	eP	45	47.30	-1.1
	Z	18s	6.36um		5.2msz		EMM	36.89	29	ePc	41	10.20	0.7		1.1s	122.00nm			5.7mb	
		e		39	38.50		MIN	37.08	321	eP	41	12.00	0.5	ETA	76.25	39	eP	45	47.80	-0.9
ANMO	24.77	330	iP	39	23.90	1.0	WDC	37.79	320	ePd	41	16.20	-1.1		1.1s	102.00nm			5.7mb	
	0.7s	115.58nm			5.4mb		ZOBO	38.02	141	iPc	41	19.90	-0.1	ELO	77.33	35	ePc	45	53.50	-1.2
	Z	19s	6.25um		5.1msz					0.9s	44.33nm	5.4mb	EBH	77.47	35	ePc	45	54.50	-0.9	
NAV	25.16	21	ePd	39	26.40	0.0	LPB	38.23	142	P	41	21.90	0.2		1.0s	114.00nm			5.8mb	
BLA	25.19	21	ePd	39	26.90	0.2				Z	18s	10.65um	5.7msz	EDI	77.68	35	eP	45	55.70	-0.9
	1.0s	170.00nm			5.5mb								AVE	77.70	59	iP	45	57.50	0.3	
CBN	27.23	25	eP	39	46.00	0.6	CBM	38.28	26	eP	41	21.00	-0.3			i		46	24.00	
		e		40	07.00		FHC	38.82	320	ePd	41	27.50	1.6	EDU	77.70	35	eP	45	55.80	-0.9
GLD	28.29	338	eP	39	54.50	-0.7	SES	39.58	341	ePd	41	32.00	-0.1		1.0s	130.00nm			5.8mb	
	1.4s	108.11nm			5.3mb					0.8s	33.00nm	5.3mb	EKA	77.77	36	Pd	45	56.20	-0.9	
	Z	18s	4.32um		5.1msz		CCH	40.08	140	P	41	34.70	-2.2		1.0s	98.50nm			5.7mb	
GOL	28.30	337	iPd	39	54.50	-0.9	NEW	40.14	334	iPd	41	36.50	-0.3	ESY	78.00	35	eP	45	57.50	-0.9
	1.0s	41.88nm			5.0mb															

FLN	1.0s	50.00nm	5.4mb	LLS	87.03	42 ePd	46 45.90	0.5	LZH	128.07	344 ePKP	53 07.50	1.0	
	80.38	42 eP	46 10.30	-1.1	SOD	87.49	20 eP	46 44.00	-3.0X	Z	24s	3.26um	5.9MsZ	
	1.1s	41.50nm	5.3mb	MOX	87.50	38 iP	46 48.00	0.6	E	20s	2.56um			
Z	21s	6.50um	6.0MsZ						XAN	128.37	338 ePKP	53 07.60	0.7	
LDF	80.64	42 eP	46 11.80	-1.0		1.3s	24.00nm	5.2mb	N	18s	1.60um			
	1.0s	34.00nm	5.2mb		N	18s	1.10um	5.6MsZ			PP	55 14.00		
EHUE	80.83	53 eP	46 14.10	0.0	E	17s	1.20um		WHN	129.13	331 ePKP	53 10.50	2.1	
MFF	80.99	44 eP	46 13.60	-1.1	GRF	87.57	39 eP	46 48.70	1.0	Z	20s	0.80um	5.4MsZ	
	1.1s	22.00nm	5.0mb			1.0s	37.00nm	5.5mb	N	20s	1.20um			
EGRA	81.72	49 eP	46 20.80	2.3		Z	22s	2.50um	5.6MsZ	QUE	131.47	25 ePKP	53 15.00	1.9
LFF	81.92	46 eP	46 18.50	-1.0			e	47 05.40			1.4s	662.79nm		
	1.2s	59.50nm	5.4mb		OSS	87.83	42 ePd	46 49.80	0.5	CD2	132.95	342 ePKP	53 18.00	2.3
EPF	82.03	48 eP	46 19.30	-0.9	CLL	88.11	37 eP	46 51.00	0.8	Z	20s	2.69um	6.0MsZ	
	1.1s	20.75nm	5.0mb				e	47 17.70				PP	55 41.00	
LPO	82.29	46 eP	46 20.50	-0.9	PGF	88.32	47 eP	46 51.80	0.2	ASPA	135.99	250 iPKPc	53 22.40	0.7
	1.2s	35.70nm	5.2mb			1.1s	31.75nm	5.4mb			1.4s	9.40nm		
RJF	82.39	45 eP	46 20.80	-1.2	BRG	88.82	38 eP	46 54.20	0.5	NDI	136.22	14 iPKPd	53 24.00	2.1
	1.3s	36.10nm	5.2mb		Z	20s	2.50um	5.6MsZ	LSA	136.47	356 iPKPd	53 25.00	2.0	
Z	22s	4.50um	5.8MsZ		N	20s	1.50um		GKN	138.09	5 PKP	53 16.64	-9.1X	
TCF	82.65	44 eP	46 22.10	-1.2	E	20s	1.50um		GUN	138.27	3 PKP	53 16.74	-9.5X	
	1.1s	17.10nm	4.9mb				i	47 27.00		KKN	138.35	4 PKP	53 17.22	-9.0X
CAF	82.85	46 eP	46 23.50	-0.9			e	47 39.40		DMN	138.52	4 PKP	53 16.42	-10.2X
	1.1s	15.85nm	4.9mb		KHC	89.21	39 iPc	46 56.80	1.2	PKI	138.58	4 PKP	53 16.40	-10.4X
MAF	82.91	44 eP	46 23.40	-1.2		Z	20s	2.00um	5.5MsZ	KMI	138.66	340 PKP	53 30.00	3.1X
	1.3s	25.25nm	5.0mb			N	20s	0.50um			5.0s	600.00nm		
BGF	83.02	44 eP	46 23.80	-1.4		E	18s	1.90um		Z	20s	2.40um	5.9MsZ	
	1.3s	50.55nm	5.3mb				e	47 29.60		N	18s	2.20um		
SNF	83.05	40 P	46 25.90	0.7	PRU	89.49	38 eP	46 57.00	0.1			PP	56 18.00	
AVF	83.31	44 eP	46 25.20	-1.5		Z	19s	2.20um	5.6MsZ	SHL	140.52	355 iPKP	53 23.20	-7.0X
	1.1s	19.55nm	5.0mb			N	20s	0.70um		POO	144.65	24 iPKPc	53 36.20	-1.1
DOU	83.34	40 Pc	46 26.80	0.0		E	19s	2.00um			1.1s	70.89nm		
		S	57 19.00		K8A	89.78	41 e(P)	46 57.00	-1.5	TSM	145.40	299 ePKP	53 41.00	2.4
SSF	83.35	43 eP	46 25.40	-1.5			e	47 08.50		CHG	145.76	342 ePKPd	53 40.40	1.2
	1.1s	29.30nm	5.2mb				e	46 57.00	-1.5		0.8s	108.96nm		
LOR	83.54	43 eP	46 26.50	-1.3			i	47 27.70		LOE	146.11	337 ePKP	53 41.00	1.3
	1.1s	52.50nm	5.4mb		KAF	90.10	25 iP	46 59.10	-0.4	BDT	147.22	341 ePKP	53 45.00	3.5X
Z	18s	4.00um	5.8MsZ			1.0s	23.50nm	5.4mb			0.9s	187.70nm		
SMF	83.67	44 eP	46 27.00	-1.5			eSP	47 01.60		HYB	147.32	18 ePKPd	53 42.50	0.8
	1.1s	22.00nm	5.1mb		KSP	90.21	37 eP	46 59.00	-1.2		1.0s	220.00nm		
LBF	83.68	43 eP	46 27.20	-1.4			e	46 59.00	-1.2	NWAO	147.66	229 ePKP	53 45.00	3.2X
	1.0s	16.00nm	5.0mb				e	50 40.00		NST	148.30	338 ePKP	53 47.00	3.8X
NB2	83.98	28 P	46 30.80	1.0	NUR	90.22	26 eP	47 00.00	0.0	PCT	148.71	335 ePKP	53 51.40	7.5X
	1.0s	26.70nm	5.2mb		ZST	91.73	39 eP	47 08.00	0.8	MUN	148.87	230 ePKP	53 48.00	4.2X
ENN	84.00	39 eP	46 30.00	-0.1			e	12 01.30		MEKA	149.12	241 ePKP	53 48.00	3.7X
	1.0s	71.00nm	5.7mb		PTJ	91.89	42 eP	47 07.50	-0.6	KHT	149.66	340 ePKP	53 47.50	2.1
MEM	84.09	39 Pc	46 30.80	0.3	SPC	93.21	38 eP	47 14.40	0.1	GBA	150.52	22 PKPd	53 48.10	1.5
WTS	84.22	38 eP	46 31.50	0.4			e	47 34.40			1.2s	18.00nm		
	1.0s	29.00nm	5.3mb		PSZ	93.55	39 eP	47 16.30	0.6	KOD	153.61	25 ePKP	53 54.00	2.4
HAU	84.98	42 eP	46 34.40	-0.7	MLR	98.36	39 eP	47 40.00	2.3	IPM	157.66	325 ePKPc	54 02.50	5.9X
	1.1s	29.30nm	5.3mb				e	12 00.00		PSI	160.37	327 ePKPc	54 06.80	7.3X
Z	21s	3.75um	5.8MsZ		OBN	98.55	27 eP	47 38.00	-0.2		S.D. = 1.0	on 245 of 277 obs.		
TIC	85.16	84 P	46 36.86	0.3		Z	22s	3.90um	5.9MsZ					
	1.1s	19.00nm	5.0mb			N	22s	2.80um						
ABH	85.24	40 eP	46 36.51	0.2	E	22s	2.20um							
LIC	85.25	85 P	46 37.30	0.3			ePP	51 37.00						
	1.1s	26.50nm	5.2mb				ePS	00 44.00						
BSF	85.32	42 eP	46 36.10	-0.8	BJI	120.33	335 ePKP	52 54.00	2.9X					
	1.4s	43.55nm	5.3mb		Z	20s	3.28um	6.0MsZ						
HFS	85.44	29 eP	46 36.60	-0.5	HHC	121.34	340 ePKP	52 54.90	1.7					
	0.9s	33.20nm	5.4mb		Z	20s	3.10um	5.9MsZ						
Z	17s	1.74um	5.5MsZ		WMQ	122.46	1 PKP	52 56.50	1.3					
		e	46 40.30		SLR	122.73	112 iPKPc	53 00.50	4.1X					
		e	46 42.80			0.9s	16.81nm							
		LR	14 10.00		BUL	122.82	105 iPKPd	52 59.40	2.7X					
CDF	85.47	41 eP	46 36.90	-0.7		0.9s	16.81nm							
	1.2s	29.75nm	5.2mb				e	54 00.00						
KIC	85.50	85 P	46 38.62	0.4	TIA	123.14	332 ePKP	52 54.80	-1.9					
TNS	85.70	39 ePd	46 38.50	-0.2		Z	18s	1.50um	5.7MsZ					
RSL	85.78	44 P	46 39.15	-0.2		N	15s	0.80um						
EMS	85.89	44 ePd	46 40.20	0.3	TIY	123.80	337 ePKP	52 58.00	0.0					
LPL	85.90	44 eP	46 39.90	-0.1		Z	14s	1.40um	5.8MsZ					
	1.1s	17.10nm	5.0mb			N	15s	0.81um						
LPG	85.92	44 eP	46 40.30	0.1	GAR	124.65	17 iPKP	53 00.00	0.3					
	1.1s	19.55nm	5.1mb				e	54 00.00						
LRG	86.20	46 eP	46 40.80	-0.4			e	58 00.00						
	1.2s	47.60nm	5.5mb		SSE	125.17	325 PKP	53 04.00	3.3X					
Z	18s	3.25um	5.8MsZ			N	16s	0.50um						
DIX	86.20	44 ePd	46 41.90	0.4		E	16s	0.50um						
LMR	86.34	46 eP	46 41.30	-0.6	MTD	125.35	101 iPKPc	53 00.80	-0.8					
	1.0s	26.00nm	5.3mb		NJ2	125.68	328 PKPd	53 04.20	2.5X					
FRF	86.37	46 eP	46 41.50	-0.6		Z	20s	0.60um	5.3MsZ					
	1.1s	24.40nm	5.2mb			N	17s	1.10um						
SLE	86.44	42 ePd	46 42.10	-0.2	GTA	125.80	349 ePKP	53 03.00	1.0					
ZLA	86.45	42 ePd	46 42.20	-0.2		1.4s	20.00nm							
MMK	86.58	43 ePd	46 44.10	0.7		Z	29s	2.30um	5.7MsZ					
SBF	86.84	46 eP	46 43.90	-0.5		N	19s	1.90um						
	1.2s	62.50nm	5.6mb				ePP	54 58.60						

23d 07h

SPC	144.76	344	ePKP	11	56.10	-0.2	DAU	39.24	325	eP	40	09.10	0.2	WET	86.52	41	iPc	45	23.60	0.9
PRU	145.20	351	PKP	11	57.00	0.3	BW06	40.01	329	eP	40	13.90	-1.3		1.0s	27.00nm			5.4mb	
	1.0s	11.60nm					TNP	41.44	318	eP	40	28.10	1.2	BRG	86.85	39	iP	45	24.60	0.4
		e		12	10.20			1.0s	4.50nm			4.2mb			1.1s	19.00nm			5.2mb	
VRI	145.45	335	ePKP	12	00.00	2.7X	LRM	43.65	330	eP	40	45.20	0.3	UPP	86.87	30	iP	45	23.40	-0.7
KHC	146.18	351	ePKP	12	00.00	1.5	SES	46.43	336	eP	41	08.00	1.1	KHC	86.97	41	iPc	45	25.70	0.8
LDF	146.80	8	ePKP	12	13.60	14.2X	SCH	46.63	13	eP	41	09.00	0.7		1.4s	8.80nm			4.8mb	
	1.3s	18.05nm					FFC	47.10	345	eP	41	12.00	0.0	KBA	87.23	43	iP	45	26.60	0.2
LPF	147.22	9	ePKP	12	11.50	11.4X		0.9s	13.00nm			5.0mb			1.4s	51.60nm			5.6mb	
	0.8s	6.70nm					NEW	47.64	330	eP	41	14.50	-2.0			e		45	52.00	
CDF	147.41	359	ePKP	12	02.10	1.6		1.3s	15.33nm			4.9mb		PRU	87.41	40	eP	45	27.50	0.6
	1.0s	10.00nm					VAO	48.26	133	eP	41	17.60	-4.1X		Z	19s	0.70um		5.1msz	
LOR	148.49	3	ePKP	12	05.30	3.1X	PDCR	49.14	116	(P)	41	25.00	-3.4X	ZST	89.46	41	eP	45	36.90	0.1
	0.7s	3.85nm					EDM	49.52	337	eP	41	30.00	-0.9	NUR	90.03	28	eP	45	38.00	-1.2
SSF	148.68	4	ePKP	12	05.60	3.1X	PNT	49.58	329	ePc	41	31.00	-0.4	SPC	91.20	40	eP	45	44.60	-0.5
	0.8s	3.35nm						1.0s	24.00nm			5.1mb	GKN	140.49	17	PKP	52	00.00	-10.4X	
AVF	148.94	4	ePKP	12	04.80	1.9	RMW	49.59	326	e(P)	41	30.00	-1.6	ASPA	142.08	244	iPKPc	52	08.60	-4.6X
	1.0s	6.00nm					GMW	50.18	326	eP	41	34.00	-2.0	WB2	142.46	250	iPKPd	52	09.30	-4.7X
LPG	150.33	359	ePKP	12	09.80	4.4X	FRB	54.73	8	eP	42	08.00	-1.7X		1.0s	4.80nm				
	0.8s	4.05nm					YKA	57.17	343	eP	42	25.10	-2.2	WRA	142.47	250	PKP	52	09.00	-5.0X
	S.D. = 1.4	on 18 of 27 obs.						0.8s	2.70nm			4.3mb			1.0s	5.00nm				
	APR 23, 1991	08h 32m 38.17±0.44s					INK	66.86	342	eP	43	31.50	-0.7	HYB	147.38	34	ePKP	52	23.00	0.7
	9.934 N ± 6.9km	83.198 W ± 9.3km					AVE	72.77	58	iP	44	11.00	2.0	G8A	149.73	40	PKPc	52	29.90	4.0X
	DEPTH = 10.0km (geophysicist)						DAG	74.65	12	iPd	44	17.90	-1.2		0.7s	11.80nm				
	5.0mb (40 obs.)	4.9msz (7 obs.)						0.7s	10.27nm			5.0mb	KOD	152.23	44	ePKP	52	36.50	6.4X	
	COSTA RICA	(78)					IFR	74.67	58	iPc	44	21.00	0.7		S.D. = 1.4	on 89 of 107 obs.				
	MD 4.9 (SJR). Felt.						MAL	75.17	55	iPc	44	25.00	2.2							
								iS			54	10.00								
							TOL	75.39	51	iPc	44	25.00	0.9							
								ePP			58	30.00								
UPA	3.74	104	ePc-	33	34.80	-2.4														
			S	34	16.50		EKA	76.23	35	Pd	44	27.40	-1.1							
HOBC	8.93	128	ePc	34	47.18	-3.2X		1.0s	15.00nm			5.0mb								
ANCC	8.95	135	ePc	34	50.77	0.2	LPF	77.45	43	eP	44	33.80	-1.6							
HOQC	9.15	134	eP	34	54.40	0.9		1.3s	28.90nm			5.2mb								
SILC	9.91	136	eP	35	04.28	0.1	GRR	77.57	43	eP	44	34.50	-1.5							
TPX	10.14	300	eP	35	12.30	5.4X		1.2s	35.70nm			5.3mb								
PURC	10.16	138	eP	35	08.31	0.6	FLN	77.81	42	eP	44	36.20	-1.2							
CUMC	10.37	149	eP	35	12.52	2.0X		1.2s	26.80nm			5.2mb								
BMG	10.41	105	eP	35	11.00	0.3	Z	21s	1.02um			5.1msz								
PSO	10.47	146	eP	35	13.00	1.2	LDF	78.05	42	eP	44	37.40	-1.3							
BOG	10.48	120	iPc	35	16.00	4.1X		1.4s	43.55nm			5.3mb								
		eS		37	38.00		MFF	78.09	44	eP	44	37.60	-1.4							
YANA	10.99	155	eP	35	20.00	0.9		1.2s	20.85nm			5.1mb								
OUR	11.06	155	eP	35	21.30	1.3	BTH	78.19	48	ePc	44	40.00	0.4							
NNA	22.68	164	eP	37	45.00	3.8X	EPF	78.59	48	eP	44	41.20	-0.7							
	1.1s	7.59nm			4.1mb			1.4s	32.65nm			5.2mb								
HBF	23.04	6	e(P)	37	47.50	3.0X	LFF	78.78	46	eP	44	41.70	-1.1							
SGS	23.28	6	ePc	37	50.00	3.1X		1.2s	17.85nm			5.0mb								
PRM	24.05	2	ePc	37	56.90	2.5	LPO	79.11	46	eP	44	43.20	-1.4							
JSC	24.30	4	eP	37	58.40	1.6		1.2s	29.75nm			5.2mb								
LHS	24.53	5	eP	38	01.50	2.5	RJF	79.31	46	eP	44	44.30	-1.4							
TKL	25.61	359	ePd	38	10.80	1.4		1.6s	49.75nm			5.3mb								
GBTN	25.63	358	ePc	38	11.70	2.2	Z	21s	0.38um			4.7msz								
RSCP	25.64	356	eP	38	10.80	1.1	CAF	79.72	46	eP	44	46.60	-1.4							
OLY	26.55	345	eP	38	17.80	-0.2		1.2s	16.35nm			4.9mb								
BLA	27.27	5	ePc	38	26.70	2.0	TCF	79.74	45	eP	44	46.20	-1.8							
	1.2s	26.52nm			4.8mb			1.5s	23.50nm			5.0mb								
NAV	27.35	4	ePc	38	26.90	1.5	MAF	79.99	45	eP	44	47.80	-1.5							
ELC	27.77	350	ePc	38	29.20	0.0		1.4s	21.80nm			4.9mb								
CVL	28.25	8	eP	38	35.20	1.7	BGF	80.16	44	eP	44	48.30	-1.9							
TUL	28.28	338	eP	38	32.10	-1.7		1.2s	20.85nm			5.0mb								
	1.6s	45.60nm			5.6mb		AVF	80.49	44	eP	44	49.90	-2.0							
	Z 19s	0.61um			4.2msz			1.3s	12.65nm			4.8mb								
		LR	46	43.90			SSF	80.57	44	eP	44	50.20	-2.2							
MEO	28.46	333	iPd	38	45.00	9.6X		1.4s	17.45nm			4.9mb								
NA2	28.50	9	ePc	38	37.10	1.4	LOR	80.80	44	eP	44	51.40	-2.2							
CBN	28.63	10	eP	38	39.00	2.1		1.0s	9.00nm			4.7mb								
ARE	28.67	156	eP	38	44.00	6.2X		Z 21s	0.63um			4.9msz								
FVM	28.68	348	eP	38	37.30	0.0	LPL	82.95	45	eP	45	04.20	-0.9							
	1.1s	24.39nm			4.9mb			1.0s	8.00nm			4.9mb								
ZOBO	30.01	150	P	38	50.00	-0.2	LPG	82.97	45	eP	45	04.30	-1.0							
	Z 24s	1.91um			4.7mszX			1.5s	18.30nm			5.0mb								
		S	44	00.00			ABH	82.97	41	eP	45	04.70	-0.2							
		LR	48	20.00			CDF	82.97	42	eP	45	03.20	-1.8							
LPB	30.24	150	P	38	55.00	2.9	NB2	83.52	29	P	45	07.60	0.1							
	Z 24s	2.33um			4.7mszX			1.1s	16.00nm			5.1mb								
		LR	48	28.00			HFS	84.88	30	eP	45	13.70	-0.6							
LVNJ	31.64	12	ePc	39	05.70	2.0		0.8s	9.20nm			5.1mb								
WVLY	32.66	6	ePc	39	13.80	1.2	Z	18s	0.38um			4.8msz								
ALO	32.72	323	eP	39	13.70	0.3			e			45	17.60							
	1.0s	4.00nm			4.3mb				LR	16	12.00									
GOL	35.62	330	eP	39	37.80	-0.6	GRF	85.35	41	eP	45	17.80	0.9							
	1.0s	15.63nm			4.8mb</															

ECHE 2.28 28 eSn 14 50.70				KNT 1.17 317 eS 57 23.64				Z 20s 0.10um 4.6msz			
ePn 14 46.40 -1.4				ePd 57 17.52 0.0				OHR 146.97 314 ePKP 06 09.80 1.0			
eSn 15 14.50				eS 57 33.72				MEM 147.90 340 PKPc 06 13.00 3.2X			
EHOR 2.31 277 ePn 14 48.00 -0.2				S.D. = 0.6 on 5 of 5 obs.				ABH 148.01 338 ePKP 06 13.46 3.3X			
eSn 15 16.60				* APR 23, 1991 11h 33m 12.27± 0.78s				DOU 148.79 341 PKP 06 15.60 4.3X			
ETOR 3.24 4 ePn 15 01.70 0.2				9.221 N ±12.2km 83.102 W ±16.3km				CDF 149.34 337 ePKP 06 14.80 2.4X			
eSn 15 39.30				DEPTH = 10.0km (geophysicist)				BSF 150.00 337 ePKP 06 16.50 3.1X			
GUD 3.37 336 ePn 15 12.20 8.9X				4.4mb (9 obs.)				0.8s 9.40nm			
eSn 15 51.10				COSTA RICA (78)				HAU 150.02 337 ePKP 06 16.60 3.3X			
EVAL 3.49 271 ePn 15 04.00 -1.0				UPA 3.53 94 iPc 34 07.40 -0.9				1.0s 12.00nm			
eSn 15 44.90				NNA 21.97 163 eP 38 13.50 5.2X				FLN 151.34 346 ePKP 06 19.30 4.1X			
EPLA 3.83 312 ePn 15 09.10 -0.7				1.2s 15.63nm 4.3mb				0.8s 20.15nm			
EROO 3.88 33 ePn 15 10.40 -0.1				PRM 24.75 1 eP 38 36.40 1.1				LDF 151.42 346 ePKP 06 19.40 4.1X			
ECRI 5.03 359 ePn 15 27.00 0.2				JSC 25.00 4 eP 38 38.50 0.9				0.8s 9.40nm			
S.D. = 0.8 on 13 of 14 obs.				LHS 25.23 4 e(P) 38 38.20 -1.6				GRR 151.78 346 ePKP 06 20.40 4.5X			
? APR 23, 1991 09h 38m 28.21± 5.10s				TKL 26.32 359 e(P) 38 50.50 0.4				0.6s 9.90nm			
39.780 N ±37.6km 29.524 E ±16.2km				OLY 27.25 345 e(P) 38 50.10 -8.5X				SSF 151.81 340 ePKP 06 20.70 4.7X			
DEPTH = 10.0km (geophysicist)				BLA 27.97 5 e(P) 39 08.00 2.9				0.7s 6.05nm			
TURKEY (366)				1.1s 15.19nm 4.7mb				LPL 151.93 334 ePKP 06 21.50 5.0X			
MD 2.8 (ISK).				Z 24s 0.18um 3.6mszX				0.8s 6.05nm			
IZI 0.56 356 iPg 38 40.00 0.4				LR 49 12.00				LPG 151.94 334 ePKP 06 21.60 5.0X			
eSg 38 43.50				LPB 29.58 150 eP 39 57.00 36.7X				0.8s 7.40nm			
YLV 0.79 352 iPn 38 43.00 -0.7				LVNJ 32.32 12 ePc 39 43.90 0.2				LPF 152.15 346 ePKP 06 21.30 4.9X			
EYL 0.92 32 iPn 38 46.00 0.1				SIV 33.22 139 (P) 39 52.00 0.2				0.9s 16.40nm			
KCT 1.01 298 ePn 38 47.50 0.1				ALO 33.35 324 eP 39 52.00 -1.0				BGF 152.46 340 ePKP 06 22.00 5.1X			
S.D. = 0.8 on 4 of 4 obs.				1.0s 2.50nm 4.1mb				0.7s 8.25nm			
& APR 23, 1991 09h 56m 34.52s				WVLY 33.36 6 e(P) 39 57.40 4.6X				TCF 152.90 341 ePKP 06 22.90 5.3X			
59.047 N 145.014 W				RSSD 39.24 336 eP 40 49.10 6.3X				0.8s 4.70nm			
GULF OF ALASKA (15)				1.0s 4.75nm 4.1mb				LSF 153.14 341 ePKP 06 23.20 5.3X			
<AEIC>. ML 2.5 (AEIC).				CBM 39.69 16 e(P) 40 52.50 6.2X				S.D. = 1.3 on 13 of 32 obs.			
MID 0.78 300 eP 56 48.14 -1.6				SCH 47.30 13 eP 41 46.00 -1.7				* APR 23, 1991 12h 00m 00.01± 2.80s			
HMT 1.35 16 eP 56 54.56 -4.8				PNT 50.24 330 eP 42 16.00 5.5X				34.168 N ±15.4km 139.188 E ±13.7km			
RAGM 1.36 7 eP 56 54.41 -5.1				FRB 55.42 8 eP 42 46.00 -2.8X				DEPTH = 49.8 ± 22.4 km			
eS 57 10.28				YKA 57.87 343 eP 43 04.90 -1.5				4.0mb (5 obs.)			
SGAM 1.46 356 eP 56 56.20 -4.7				0.8s 1.20nm 4.0mb				NEAR S. COAST OF HONSHU, JAPAN (230)			
eS 57 14.38				INK 67.56 342 eP 44 12.00 1.3				MAT 2.50 342 iPc 00 38.70 -0.4			
CVA 1.55 346 eP 56 57.50 -4.6				FBA 71.09 336 ePd 44 38.40 5.9X				iS 01 09.90			
HIN 1.55 332 eP 56 57.90 -4.3				0.7s 3.63nm 4.6mb				CN2 14.36 316 eP 03 30.00 8.0X			
eS 57 16.03				IMA 73.78 336 ePd 44 55.20 6.7X				N 13s 0.60um			
MTU 1.64 306 eP 56 59.27 -4.3				0.8s 2.59nm 4.3mb				E 13s 0.60um			
LTI 1.76 306 eP 57 00.29 -4.9				LIC 77.29 86 (P) 45 08.70 -0.6				NJ2 17.17 269 Pc 03 59.00 1.1			
WAX 1.78 37 eP 57 01.15 -4.5				NB2 84.09 29 P 45 49.70 5.2X				Z 18s 0.30um			
S 57 21.07				0.9s 4.00nm 4.6mb				N 10s 0.40um			
WRG 1.82 56 eP 57 02.73 -3.3				HFS 85.45 30 eP 45 54.80 3.6X				BJI 19.25 294 eP 04 23.00 -0.1			
KNIM 1.90 315 eP 57 02.17 -5.1				0.5s 1.50nm 4.5mb				WHN 21.28 267 Pd 04 44.50 0.3			
CROM 1.96 28 eP 57 03.65 -4.6				PVC 110.37 254 iPdiff 47 29.70 -16.2X				E 14s 0.70um			
TGL 2.04 32 iP 57 04.89 -4.5				ASPA 141.85 243 ePKP 52 48.60 1.6				PP 04 55.50			
eS 57 27.04				0.5s 6.90nm				TIY 21.92 287 eP 04 54.20 3.5X			
GLI 2.12 331 eP 57 05.61 -4.8				WB2 142.30 249 iPKPd 52 46.50 -1.3				Z 12s 0.96um 4.4mszX			
eS 57 30.01				0.9s 5.10nm				E 12s 0.52um			
VZW 2.16 340 eP 57 06.06 -5.1				WRA 142.31 249 PKP 52 46.00 -1.8				HHC 22.85 295 eP 05 07.00 7.1X			
VLZ 2.19 343 eP 57 06.27 -5.2				1.6s 3.60nm				LZH 28.88 284 e(P) 06 07.00 10.7X			
eS 57 31.35				CHG 152.07 356 ePKP 53 24.60 21.1X				2.0s 21.00nm			
BALM 2.40 33 iP 57 09.72 -4.9				S.D. = 1.5 on 17 of 31 obs.				Z 15s 0.63um 4.3mszX			
GLB 2.48 14 iP 57 10.47 -5.1				? APR 23, 1991 11h 46m 29.82± 0.79s				29.02 263 P 05 56.00 -1.6			
eS 57 37.10				21.162 S ±22.3km 169.605 E ±17.7km				40.59 299 P 07 37.20 0.8			
SEW 2.49 297 eP 57 10.94 -4.8				DEPTH = 33.0km (normol)				54.01 186 P 09 21.00 -0.3			
KLU 2.50 350 iP 57 10.70 -5.2				4.8mb (3 obs.) 4.6msz (1 obs.)				0.7s 1.20nm 4.0mb			
CTGM 2.67 42 eP 57 13.79 -4.7				LOYALTY ISLANDS REGION (189)				INK 57.76 26 eP 09 48.00 0.2			
KNK 2.93 326 eP 57 17.81 -4.2				DZM 3.08 252 iPc 47 15.20 -2.1				YKA 67.19 29 eP 10 49.20 -1.4			
PNL 2.94 75 eP 57 18.04 -4.1				RMO 19.79 250 iPd 51 01.00 0.6				0.8s 1.00nm 3.9mb			
SLKM 3.01 301 eP 57 18.22 -5.0				CMS 23.62 239 iPc 51 40.60 1.8				HFS 75.93 335 eP 11 42.30 -0.6			
TZL 3.01 356 eP 57 18.68 -4.5				MAT 64.60 332 eP 57 06.00 -0.3				0.5s 0.90nm 4.0mb			
SCM 3.02 339 eP 57 18.38 -5.0				1.0s 10.00nm 4.9mb				NB2 76.11 337 P 11 43.70 -0.2			
TOA 3.12 350 eP 57 19.90 -4.8				SPA 68.97 180 eP 57 33.20 -0.6				0.9s 1.80nm 4.0mb			
PMS 3.17 316 eP 57 22.57 -2.8				1.2s 21.13nm 5.1mb				FFC 77.09 31 eP 11 50.00 0.6			
GHO 3.35 326 eP 57 23.67 -4.4				CHG 79.76 295 eP 58 38.10 1.5				0.8s 6.00nm 4.7mb			
SDG 3.50 356 eP 57 25.10 -5.0				YKA 102.21 27 ePdfff00 21.80 -0.6				LRM 77.47 43 eP 11 53.60 1.6			
30 obs. associated				0.8s 0.40nm 4.1mb				S.D. = 1.1 on 13 of 17 obs.			
% APR 23, 1991 09h 56m 55.67± 1.06s				BRG 144.73 333 iPKP 06 03.80 -0.9				& APR 23, 1991 13h 42m 46.30s			
40.310 N ± 7.1km 23.951 E ±10.4km				0.6s 16.00nm				50.550 N 130.112 W			
DEPTH = 10.0km (geophysicist)				CLL 144.79 334 iPKPc 06 03.50 -1.2				DEPTH = 10.0km (geophysicist)			
GREECE (364)				0.9s 15.00nm				3.5mb (2 obs.)			
MD 3.4 (THE).				PRU 145.13 332 PKPc 06 04.70 -0.7				VANCOUVER ISLAND REGION (25)			
OUR 0.03 44 ePd 56 57.36 -0.3				EKA 145.45 353 PKPd 06 05.30 -0.4X				<PGC>.			
PAIG 0.44 209 ePd 57 04.64 0.1				0.6s 10.50nm				SJB 1.50 338 P 43 12.70 -0.5			
eS 57 10.16				SKO 146.15 315 ePKP 06 07.10 -0.3				PHC 1.71 84 Pc 43 16.48 0.2			
SOH 0.68 319 iPd 57 08.66 -0.6				KHC 146.18 331 iPKPd 06 09.00 1.7				S 43 37.87			
eS 57 17.84				1.0s 5.20nm							
SRS 0.85 341 ePd 57 12.68 0.6				GRF 146.77 334 ePKP 06 10.50 2.4X							

23d 13h

EDB	2.04	108	P	43	19.76	-1.3
BBB	2.06	37	P	43	22.00	0.7
			S	43	46.00	
ETB	2.59	116	P	43	28.17	-0.7
GDR	2.73	105	Pc	43	29.86	-1.1
CBB	3.09	98	P	43	35.66	-0.3
BTB	3.15	108	Pc	43	35.89	-1.2
OZB	3.39	116	P	43	39.84	-0.5
MGB	3.84	112	P	43	46.55	-0.3
PGC	4.73	111	eP	43	59.00	-0.3
MCW	5.09	109	P	44	04.93	0.5
BLN	5.32	116	P	44	07.79	0.1
HDW	5.47	119	P	44	09.77	-0.1
MBW	5.62	105	P	44	12.32	0.3
JCW	5.84	111	P	44	15.06	0.1
RPW	5.98	107	P	44	17.15	0.1
HTW	6.12	113	P	44	19.81	0.8
GSM	6.43	118	P	44	24.13	0.7
RVC	6.48	121	P	44	24.78	0.7
CZM	6.52	126	P	44	26.14	1.6
FMW	6.65	120	P	44	26.71	0.1
KOSW	6.66	125	P	44	28.17	1.5
LON	6.69	121	P	44	27.81	0.8
ERK	6.69	126	P	44	27.61	0.5
TDL	6.72	126	P	44	28.18	0.6
LVP	6.82	128	P	44	30.15	1.3
NLW	6.85	107	P	44	29.04	-0.3
WPW	6.86	121	P	44	30.54	1.1
ESD	6.86	126	P	44	30.98	1.5
PNT	6.89	96	P	44	31.00	1.3
	0.9s	1.80nm			4.2mb	X
ETW	7.07	111	P	44	32.60	0.2
TBM	7.13	115	P	44	34.29	1.1
ASR	7.18	125	P	44	34.95	1.0
DHW2	7.24	107	P	44	34.47	-0.2
NAC	7.24	118	P	44	35.33	0.6
WTV	7.25	109	P	44	34.57	-0.3
EBG	7.29	116	P	44	36.02	0.7
VTG	7.60	114	P	44	39.37	-0.2
EPH	7.63	111	P	44	39.62	-0.5
MDW	7.91	116	P	44	44.23	0.2
OD2	8.14	108	P	44	46.24	-1.0
YKA	14.66	29	eP	46	14.60	-0.6
	0.6s	0.60nm			3.3mb	
BW06	16.08	111	iP	46	37.10	3.0
	0.8s	4.46nm			3.6mb	
	44 obs. associated					

? APR 23, 1991 13h 52m 00.23±1.67s
 33.627 N ±21.6km 138.613 E ±17.6km
 DEPTH = 33.0km (normol)
 4.0mb (2 obs.)
 SOUTH OF HONSHU, JAPAN (211)

MAT	2.93	354	iPc	52	45.50	0.0
			iS	53	18.10	
KUMJ	6.62	263	P	53	37.80	0.0
KAGJ	6.97	252	P	53	55.10	12.5X
INK	58.45	26	eP	01	55.00	0.2
YKA	67.89	29	eP	02	57.00	-0.2
	0.9s	1.20nm			4.0mb	
NB2	76.42	337	P	03	50.70	2.9X
	0.7s	1.20nm			4.0mb	
	S.D. = 0.3	on 4 of 6 obs.				

APR 23, 1991 14h 33m 02.26±0.59s
 34.018 N ±6.8km 139.195 E ±8.6km
 DEPTH = 10.0km (geophysicist)
 4.3mb (6 obs.)
 NEAR S. COAST OF HONSHU, JAPAN (230)

IIDJ	1.80	324	P	33	33.00	-0.6
			S	33	54.90	
CHJJ	2.03	355	P	33	36.90	0.0
			S	34	02.30	
KAKJ	2.33	20	P	33	40.90	-0.2
			S	34	10.50	
MAT	2.64	343	eP	33	46.00	0.3
			iS	34	19.70	
MTMJ	2.80	336	P	33	48.40	0.4
			S	34	25.30	
TSRJ	3.05	301	P	33	50.20	-1.1
			eS	34	34.90	
NJ2	17.17	269	eP	37	07.60	3.8X
	N 11s	0.30um				
WHN	21.27	267	eP	37	53.00	2.0
	1.0s	20.00nm			4.5mb	

TIY	21.97	287	eP	38	01.20	3.2X
	Z 12s	0.72um			4.3mszX	
	E 12s	0.42um				
XAN	25.05	279	eP	38	27.90	-0.2
GYA	29.01	264	P	39	04.60	0.1
CHG	38.83	257	eP	40	13.60	-15.7X
WB2	53.86	186	eP	42	27.00	-0.7
	0.8s	1.00nm			3.9mb	
WRA	53.86	186	P	42	27.00	-0.7
	0.6s	0.70nm			3.9mb	
INK	57.89	26	eP	42	56.00	-0.2
YKA	67.32	29	eP	43	58.20	-0.9
	0.9s	2.40nm			4.4mb	
OBN	69.41	323	eP	44	25.00	12.8X
	1.0s	*****nm				
		e		44	28.00	
HFS	76.07	335	eP	44	51.50	0.2
	0.4s	1.00nm			4.3mb	
	Z 16s	0.04um			3.8mszX	
		epP		44	56.20	15kmX
		LR		15	18.00	
NB2	76.25	337	P	44	52.30	-0.1
	0.8s	2.90nm			4.4mb	
LRM	77.58	43	ePd	45	02.10	1.8
ZOBO	149.75	61	PKP	52	57.00	6.8X
LPB	149.94	61	ePKP	52	45.00	-5.3X
	S.D. = 0.9	on 16 of 22 obs.				

& APR 23, 1991 15h 12m 14.30s
 32.160 N 117.600 W
 DEPTH = 6.0km (geophysicist)
 CALIFORNIA-MEXICO BORDER REGION (45)
 <PAS-P>. ML 3.0 (PAS).

CPE	0.83	30	eP	12	30.20	-0.6
BAR	0.94	56	ePd	12	31.70	-0.9
			eS	12	44.10	
SCI	1.14	316	eP	12	34.40	-1.7
PLM	1.34	27	eP	12	37.70	-1.9
IKP	1.35	68	eP	12	38.60	-1.1
			eS	12	56.40	
CIS	1.42	332	eP	12	39.10	-1.5
PEC	1.77	12	eP	12	44.30	-1.3
GLA	2.50	68	eP	12	55.00	-1.3
	8 obs. associated					

? APR 23, 1991 15h 21m 54.84±8.64s
 32.189 S ±53.6km 72.030 W ±38.7km
 DEPTH = 10.0km (geophysicist)
 4.1mb (1 obs.)
 OFF COAST OF CENTRAL CHILE (134)

ROCH	1.16	132	iP	22	16.50	-0.2
			iS	22	31.90	
JACH	1.31	112	iP	22	19.00	-0.2
			iS	22	35.50	
LCCH	1.34	163	iP	22	20.00	0.5
			iS	22	37.50	
TACH	1.72	148	iP	22	25.00	-0.1
			iS	22	48.00	
			i	22	52.00	
LNW	1.84	164	iP	22	26.00	-0.6
			iS	22	50.50	
PCH	1.91	139	iP	22	28.50	0.6
			i	22	55.00	
YKA	100.35	341	ePd	35	43.10	0.6X
	0.6s	0.40nm			4.1mb	
	S.D. = 0.6	on 6 of 7 obs.				

? APR 23, 1991 16h 02m 54.44±2.21s
 17.319 S ±14.1km 72.255 W ±25.6km
 DEPTH = 97.2 ±11.4 km
 3.7mb (1 obs.)
 NEAR COAST OF PERU (115)
 Felt (III) at Arequipa.

ARE	1.12	41	iPd	03	16.20	-0.5
			iS	03	29.00	
LPB	4.05	79	P	03	56.40	0.6
ZOBO	4.09	76	iPc	03	56.80	0.3
CCH	5.84	92	P	04	17.30	-3.1X
ANT	6.58	165	eP	04	30.50	0.2
SIV	10.80	85	P	05	22.00	-5.7X
PPD	20.26	107	eP	07	23.40	-1.1
PDCR	32.34	86	(P)	09	16.30	-0.4
KIC	70.70	77	P	14	03.10	0.9

YKA 86.23 342 eP 15 31.10 5.2X
 0.6s 0.50nm 3.7mb
 S.D. = 1.0 on 7 of 10 obs.

APR 23, 1991 16h 11m 54.98±0.75s
 32.208 S ±10.7km 70.192 W ±9.5km
 DEPTH = 134.7 ±8.5 km
 CHILE-ARGENTINA BORDER REGION (127)
 Felt (II) at Santiago, Chile.

JACH	0.58	216	iPc	12	15.10	-0.3
			iS	12	29.50	
RTBS	0.83	49	ePd	12	17.40	0.3
PEL	1.02	204	iP	12	19.00	0.2
			iS	12	36.30	
ROCH	1.03	222	iP	12	19.10	0.0
			iS	12	37.00	
SAN	1.30	198	iPc	12	21.70	0.1
			iS	12	41.20	
MDZ	1.32	121	iP	12	22.10	0.3
			iS	12	40.10	
PCH	1.43	191	iP	12	23.30	0.2
			iS	12	44.00	
ZON	1.45	63	eP	12	22.70	-0.5
			eS	12	40.70	
IHA	1.47	236	eP	12	23.90	0.5
			iS	12	45.60	
TACH	1.57	203	iP	12	24.50	-0.1
			iS	12	46.50	
LCCH	1.72	222	iPc	12	26.00	-0.2
			iS	12	49.50	
LNW	2.02	210	iPc	12	29.40	-0.4
			i	12	50.50	
			iS	12	55.00	
PPD	19.60	64	(P)	16	15.00	0.1
	S.D. = 0.4	on 13 of 13 obs.				

APR 23, 1991 16h 15m 25.95±1.51s
 27.001 N ±8.4km 127.475 E ±11.5km
 DEPTH = 99.0 ±15.2 km
 4.3mb (10 obs.)
 RYUKYU ISLANDS (238)

TWC	5.60	246	ePd	16	50.00	1.7
TWD	6.05	243	ePc	16	54.10	-0.4
TWQ	6.58	247	ePd	17	02.90	1.1
TWF1	6.67	238	ePc	17	01.10	-2.0
SSE	6.85	308	P	17	06.00	0.5
	1.0s	12.00nm			4.3mb	
TWG	7.15	236	ePc	17	07.40	-2.2
MAT	13.17	41	eP	18	30.00	-0.3
TIY	16.58	314	Pc	19	16.00	2.3
CN2	16.84	355	eP	19	17.00	0.1
	0.8s	10.00nm			4.1mb	
XAN	17.44	298	eP	19	25.00	0.6
HHC	19.07	320	eP	19	42.30	-1.0
BTO	19.81	318	eP	19	49.70	-1.3
CD2	21.10	286	P	20	09.00	4.8X
LZH	22.04	300	eP	20	15.00	1.4
	1.5s	28.00nm			4.4mb	
GTA	26.13	305	Pd	20	51.00	-1.6
	0.8s	10.00nm			4.4mb	
WRA	47.14	171	P	23	51.00	0.9
	0.8s	3.20nm			4.2mb	
WB2	47.14	171	iPd	23	51.40	1.3
	0.6s	6.20nm			4.6mb	
INK	68.45	23	ePd	26	18.40	-0.4
HFS	77.83	332	eP	27	12.00	-1.6
	0.4s	1.10nm			4.0mb	
		epP	27	17.00	16kmX	
		esP	27	18.90		
		e	27	22.00		
YKA	78.11	25	eP	27	14.70	-0.5
	0.8s	4.10nm			4.3mb	
NB2	78.33	334	P	27	15.60	-0.8
	0.6s	2.20nm			4.2mb	
GRF	85.00	324	eP	27	53.00	1.6
FFC	88.20	26	iPd	28	07.30	0.4
	0.6s	11.00nm			5.1mb	

S.D. = 1.4 on 22 of 23 obs.

EKA 16.75 58 P 41 19.00 -0.5
2.1s 60.70nm 4.4mb
TCF 20.81 86 eP 42 07.20 -0.1
1.2s 19.35nm 4.3mb
MAF 21.06 86 eP 42 10.80 0.9
1.0s 12.00nm 4.2mb
BGF 21.14 85 eP 42 10.90 0.3
0.8s 16.80nm 4.5mb
CAF 21.19 89 eP 42 14.90 3.8X
AVF 21.40 84 eP 42 13.40 0.2
0.8s 10.75nm 4.3mb
SSF 21.42 83 eP 42 13.40 -0.1
0.7s 7.70nm 4.2mb
DOU 21.42 74 P 42 13.10 -0.3
0.7s 8.90nm 4.3mb
LOR 21.59 82 eP 42 15.10 -0.1
0.9s 6.55nm 4.0mb
MEM 22.23 73 P 42 25.30 3.8X
IFR 23.26 123 iP 42 29.50 -2.5
BSF 23.34 79 eP 42 35.60 3.0X
0.7s 6.60nm 4.3mb
GRF 25.70 73 eP 42 57.90 2.8X
Z 20s 0.20um 3.6msz
FFC 43.83 307 eP 45 31.00 0.1
0.7s 6.00nm 4.5mb
YKA 46.61 320 eP 45 51.20 -1.7
1.0s 3.60nm 4.4mb
INK 50.60 332 eP 46 22.00 -1.8
SES 50.75 305 eP 46 26.00 0.7
GKN 82.98 55 P 49 50.64 0.4
KKN 83.49 55 P 49 52.52 -0.4
DMN 83.54 55 P 49 54.80 1.5
GUN 83.72 54 P 49 53.10 -1.2
PKI 83.74 55 P 49 55.26 0.9
LZH 85.33 37 eP 50 02.00 0.0
2.0s 36.00nm 5.2mb
WRA 147.93 31 PKP 57 11.00 3.7
0.7s 2.40nm 4.4mb
WB2 147.94 31 iPKPd 57 05.20 -2.1X
0.4s 2.40nm 4.4mb
ASPA 151.19 35 iPKPc 57 18.90 6.6X
0.9s 7.20nm 4.4mb
S.D. = 1.4 on 20 of 26 obs.

* APR 23, 1991 16h 55m 16.54±0.58s
2.938 S ± 6.5km 134.312 E ± 15.6km
DEPTH = 33.0km (normal)
4.9mb (7 obs.)

WEST IRIAN REGION (196)

MTN 10.34 198 eP 57 46.00 0.3
eS 59 40.00
KNA 13.85 203 eP 58 32.00 -0.9
eS 01 03.00
WB2 16.90 180 eP 59 09.80 -2.5
1.2s 4.80nm 3.5mb X
OIS 18.26 164 eP 59 27.00 -2.2
eS 02 36.00
ASPA 20.61 181 iPd 59 57.10 1.3
0.8s 226.00nm 5.6mb
iS 03 44.80
CTA 20.65 147 iPc 59 57.40 1.2
1.0s 62.00nm 4.9mb
BAG 23.53 325 eP 00 26.00 1.0
WARB 24.26 197 eP 00 35.00 3.1X
0.4s 8.00nm 4.6mb
FORR 28.38 191 eP 01 11.00 1.1
BAL 32.16 209 eP 01 45.80 2.3
WHN 38.36 332 eP 02 37.50 1.1
CHG 40.97 303 eP 02 59.20 1.0
0.9s 13.24nm 4.7mb
XAN 43.88 329 P 03 21.00 -0.8
TIY 45.25 335 eP 03 32.00 -0.8
BJI 45.89 341 eP 03 37.00 -0.7
LZH 48.13 327 eP 03 55.50 -0.2
1.5s 28.00nm 5.1mb
PP 03 59.00
HHC 48.28 337 eP 03 56.60 -0.1
LSA 52.50 311 P 04 30.00 0.5
GTA 52.74 327 Pd 04 30.30 -0.4
1.0s 10.00nm 4.7mb
GUN 55.76 307 P 04 52.76 -0.5
PKI 55.99 306 P 04 54.06 -0.9
KKN 56.19 306 P 04 55.52 -0.7
DMN 56.25 306 P 04 56.06 -0.6
GKN 56.79 306 P 05 00.04 -0.4
GBA 58.75 288 Pc 05 14.00 -0.1

0.7s 7.10nm 4.9mb
WMO 62.52 324 P 05 39.00 -0.5
QUE 72.10 303 Pd 06 40.90 0.7
LPB 150.60 132 ePKP 15 02.00 -0.5
ZOBO 150.74 131 PKP 15 05.00 2.1
1.0s 12.50nm
CCH 151.45 136 ePKP 15 10.00 6.4X
S.D. = 1.2 on 28 of 30 obs.

? APR 23, 1991 17h 25m 23.62±1.33s
14.992 S ± 39.5km 173.769 W ± 35.1km
DEPTH = 33.0km (normal)
4.6mb (4 obs.) 4.8msz (1 obs.)
SAMOA ISLANDS REGION (169)

DZM 20.03 246 iPc 29 57.30 0.5
TOO 42.45 230 eP 33 17.00 -0.2
WB2 49.58 256 iPc 34 13.50 -0.4
0.7s 4.10nm 4.6mb
WRA 49.59 256 P 34 14.00 0.0
0.7s 4.00nm 4.6mb
ASPA 49.90 252 iPd 34 16.10 -0.3
0.6s 10.40nm 5.0mb
FBA 82.06 11 eP 37 41.40 -0.2
IMA 82.21 8 eP 37 43.20 0.7
INK 87.96 14 eP 38 11.00 0.0
YKA 89.87 23 eP 38 19.00 -1.1
0.8s 0.90nm 4.1mb
PRU 144.45 351 ePKP 44 58.00 -0.1X
eSg 14 39.00
MLR 145.35 335 ePKPd 44 54.00 -6.0X
KHC 145.43 351 PKP 45 01.00 1.1
e 45 13.00
ZST 145.69 347 ePKP 45 06.60 6.3X
SRO 145.78 345 ePKP 45 09.00 8.6X
LPF 146.51 9 ePKP 45 02.90 1.3X
1.1s 14.65nm
CDF 146.66 359 ePKP 45 04.10 2.1X
1.0s 8.00nm
LOR 147.76 3 ePKP 45 07.30 3.6X
1.1s 14.65nm
Z 19s 0.15um 4.8msz
SSF 147.95 4 ePKP 45 07.70 3.7X
0.8s 3.35nm
SMF 148.38 3 ePKP 45 08.50 3.8X
LPG 149.59 359 ePKP 45 06.00 -1.0X
S.D. = 0.7 on 10 of 20 obs.

? APR 23, 1991 18h 36m 27.49±1.03s
16.183 N ± 15.5km 61.328 W ± 10.5km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 2.1 (FDF).

SFG 0.14 61 eP 36 33.46 -0.1
S 36 36.90
DEG 0.29 63 eP 36 35.23 0.1
PAG 0.37 246 eP 36 36.30 0.0
S 36 42.10
BPA 1.00 329 eP 36 45.20 0.0
S 36 56.50
S.D. = 0.1 on 4 of 4 obs.

% APR 23, 1991 18h 54m 16.89±1.25s
38.552 N ± 10.5km 14.720 E ± 11.1km
DEPTH = 13.3 ± 6.2 km
SICILY (398)

MNO 0.62 182 P 54 30.00 0.8
eSn 54 38.00
ATN 0.70 124 P 54 29.70 -0.8
eSn 54 39.90
GIB 0.78 224 P 54 31.50 -0.4
eSn 54 42.50
MCT 1.26 223 P 54 36.08 -4.0X
0.1s 66.10nm
GRI 1.36 78 P 54 42.09 0.7
0.6s 114.90nm
MEU 1.46 173 P 54 42.10 -0.8
eSn 55 00.30
PZI 1.53 174 P 54 43.97 0.1
0.3s 92.40nm
TDS 1.68 48 P 54 45.50 -0.5
S.D. = 0.9 on 7 of 8 obs.

APR 23, 1991 18h 56m 41.22±0.42s
9.538 N ± 7.7km 83.467 W ± 6.8km

DEPTH = 10.0km (geophysicist)
5.0mb (37 obs.) 4.4msz (4 obs.)
COSTA RICA (78)

MD 4.9 (SJR). Felt.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 18C
Centroid Location:
Origin Time 18:56:41.0 1.6
Lat 9.07N 0.26 Lon 83.87W 0.33
Dep 15.0 FIX Half-duration 1.5
Moment Tensor; Scale 10**16 Nm
Mrr=-1.57 0.74 Mtt= 2.05 0.55
Mff=-0.47 0.88 Mrt= 1.18 1.72
Mrf=-6.38 1.22 Mtf= 1.04 0.74
Principal Axes:
T Val= 5.38 Plg=43 Azm= 90
N 2.30 7 354
P -7.68 47 257
Best Double Couple: Mo=6.5*10**16
NP1: Strike=246 Dip= 7 Slip= -17
NP2: 354 88 -97

FUO 10.46 112 eP 59 20.50 5.9X
BOG 10.53 117 eP 59 22.00 6.4X
eS 01 34.00
BMC 10.57 103 eP 59 18.00 2.0
SDV 12.69 92 eP 59 44.30 -0.5
TOV 13.48 88 eP 59 54.70 -0.5
PPM 17.47 304 (P) 00 54.50 7.3X
JSC 24.71 4 P 02 05.40 1.6
LHS 24.94 5 P 02 07.00 0.9
TKL 26.00 359 P 02 16.60 0.6
RSCP 26.01 356 P 02 16.80 0.6
GBTN 26.02 359 P 02 17.00 0.8
BLA 27.69 5 eP 02 31.90 0.4
1.2s 18.75nm 4.7mb
NAV 27.76 5 P 02 40.60 8.4X
ARE 28.42 155 eP 02 38.00 -0.6
FVM 29.01 349 eP 02 43.00 -0.4
1.1s 14.63nm 4.7mb
ZOBO 29.80 149 P 02 55.00 3.6X
Z 24s 0.30um 3.8msz X
S 08 12.00
LR 12 28.00
LVNJ 32.08 12 P 03 11.70 1.1
ALO 32.88 324 eP 03 18.80 1.0
1.0s 4.00nm 4.3mb
ANMO 32.88 324 P 03 19.40 1.6
1.2s 21.48nm 5.0mb
WVLY 33.08 7 P 03 19.40 0.1
SIV 33.69 139 P 03 26.40 1.5
GOL 35.83 331 P 03 44.20 1.0
1.1s 12.02nm 4.7mb
RSSD 38.80 336 P 04 09.40 1.2
1.4s 29.47nm 4.8mb
BW06 40.21 330 P 04 20.00 0.1
1.5s 17.16nm 4.5mb
TNP 41.56 319 iP 04 33.10 2.2
1.0s 4.50nm 4.2mb
LRM 43.86 331 ePc 04 50.60 0.9
SCH 47.07 13 eP 05 14.00 -0.9
FFC 47.42 346 ePd 05 16.90 -0.7
0.9s 15.00nm 5.1mb
PDCR 49.21 116 (P) 05 35.00 3.0
EDM 49.78 337 ePc 05 35.50 -0.4
PNT 49.78 330 eP 05 36.00 0.0
FRB 55.16 8 eP 06 13.00 -2.9
YKA 57.47 343 eP 06 30.40 -2.1
0.8s 2.80nm 4.3mb
INK 67.15 342 eP 07 36.00 -1.1
KLU 68.70 333 P 07 47.40 0.4
TOA 69.02 333 P 07 50.10 1.2
FBA 70.66 336 P 07 58.90 0.1
1.0s 12.50nm 5.0mb
PDB 72.14 330 P 08 06.70 -1.0
AVE 73.20 58 eP 08 15.50 1.0
IMA 73.35 336 eP 08 14.90 -0.1
1.2s 5.30nm 4.5mb
IFR 75.11 58 iPd 08 26.50 0.7
TOL 75.85 51 iPc 08 30.50 0.8
1.2s 31.25nm 5.3mb
EKA 76.70 35 Pc 08 33.50 -0.7
1.2s 18.20nm 5.0mb
TIC 77.57 85 P 08 40.26 0.4
LIC 77.63 86 P 08 40.62 0.5
1.1s 41.50nm 5.4mb

23d 19h

KIC 77.89 86 P 08 42.20 0.7
 LPF 77.92 43 eP 08 40.50 -0.5
 1.1s 14.65nm 5.0mb
 GRR 78.04 43 eP 08 41.30 -0.3
 1.2s 26.80nm 5.2mb
 FLN 78.28 42 eP 08 42.70 -0.3
 1.2s 23.80nm 5.1mb
 LDF 78.52 42 eP 08 43.90 -0.4
 1.2s 23.80nm 5.1mb
 MFF 78.56 44 eP 08 44.40 -0.2
 1.3s 21.65nm 5.0mb
 EPF 79.05 48 eP 08 47.50 0.1
 1.3s 14.45nm 4.8mb
 LFF 79.25 46 eP 08 48.10 -0.3
 LPO 79.58 46 eP 08 49.80 -0.4
 1.0s 32.50nm 5.3mb
 RJF 79.78 46 eP 08 50.70 -0.5
 1.1s 14.65nm 4.9mb
 Z 19s 0.15um 4.4MsZ
 CAF 80.19 46 eP 08 53.30 -0.2
 1.6s 43.55nm 5.2mb
 TCF 80.20 45 eP 08 52.80 -0.7
 1.3s 16.25nm 4.8mb
 MAF 80.45 45 eP 08 54.20 -0.7
 1.4s 23.95nm 5.0mb
 BGF 80.62 44 eP 08 55.00 -0.7
 1.4s 30.50nm 5.1mb
 AVF 80.95 44 eP 08 56.60 -0.9
 1.2s 11.90nm 4.8mb
 SSF 81.04 44 eP 08 56.90 -1.0
 1.3s 14.45nm 4.8mb
 LOR 81.26 43 eP 08 58.00 -1.1
 1.3s 18.05nm 5.0mb
 Z 21s 0.20um 4.4MsZ
 SMF 81.30 44 eP 08 58.40 -0.9
 HAU 82.87 43 eP 09 06.90 -0.6
 Z 19s 0.15um 4.4MsZ
 BSF 83.19 43 eP 09 08.40 -0.8
 ABH 83.44 41 eP 09 10.34 0.0
 CDF 83.44 42 eP 09 09.80 -0.7
 NB2 83.99 29 P 09 12.20 -0.7
 1.1s 15.30nm 5.1mb
 HFS 85.36 30 eP 09 19.00 -0.7
 0.9s 9.40nm 5.0mb
 Z 17s 0.08um 4.2MsZ
 e 09 21.00
 e 09 23.70
 LR 37 23.00
 GRF 85.82 40 ePd 09 23.00 0.7
 1.5s 21.00nm 5.1mb
 Z 18s 0.10um 4.3MsZ
 MOX 85.91 39 eP 09 23.00 0.3
 CLL 86.65 39 iPd 09 26.40 0.1
 1.2s 26.00nm 5.3mb
 BRG 87.32 39 iPd 09 29.50 -0.1
 1.3s 23.00nm 5.3mb
 UPP 87.34 30 iP 09 28.40 -1.0
 KHC 87.44 41 iPc 09 30.90 0.7
 KBA 87.69 43 i(P) 09 31.10 -0.6
 1.3s 20.70nm 5.3mb
 PRU 87.88 40 Pd 09 32.50 0.2
 SOD 88.82 21 eP 09 52.00 15.6X
 ZST 89.93 41 iP 09 42.70 0.7
 KAF 90.66 26 iP 09 44.80 -0.4
 0.8s 7.10nm 5.0mb
 esP 09 45.20
 SPC 91.67 40 eP 09 50.70 0.4
 ASPA 141.67 244 iPKPd 16 13.90 -1.7
 1.0s 11.70nm
 i 19 59.20
 WB2 142.08 250 iPKPd 16 14.40 -1.9
 1.1s 11.20nm
 WRA 142.09 250 PKP 16 15.00 -1.4
 1.1s 11.10nm
 HYB 147.86 34 ePKP 16 28.00 1.9
 1.0s 30.00nm
 GBA 150.20 40 PKPc 16 35.10 5.4X
 0.9s 12.90nm
 KOD 152.69 44 ePKP 16 42.00 8.2X
 S.D. = 1.0 on 79 of 87 obs.
 % APR 23, 1991 19h 23m 26.24 ± 0.73s
 37.235 N ± 9.3km 4.073 W ± 5.6km
 DEPTH = 10.0km (geophysicist)
 SPAIN (377)
 mbLg 3.2 (MDD).

AFC 0.42 87 ePg 23 34.10 -0.8
 eSg 23 40.90
 EBAN 0.96 14 iPg 23 45.10 0.7
 eSg 23 59.10
 EPRU 0.96 254 iPg 23 44.30 -0.3
 eSg 23 56.00
 EHOR 1.10 302 ePg 23 46.30 -0.6
 eSg 24 01.70
 EJIF 1.37 236 ePn 23 51.90 0.6
 eSn 24 09.20
 ENIJ 1.51 99 ePnd 23 53.80 0.5
 eSn 24 13.50
 S.D. = 0.8 on 6 of 6 obs.
 ? APR 23, 1991 19h 41m 45.35 ± 4.66s
 43.769 N ± 37.7km 127.892 W ± 23.8km
 DEPTH = 10.0km (geophysicist)
 2.8mb (1 obs.)
 OFF COAST OF OREGON (30)
 GT2 4.26 69 P 42 51.66 -0.1
 BMW 4.27 49 P 42 52.90 1.0
 RVW 4.36 55 P 42 52.41 -0.7
 LVP 4.52 58 P 42 55.23 -0.3
 FL2 4.62 56 P 42 56.57 -0.4
 MTMW 4.62 59 P 42 56.65 -0.3
 CZM 4.65 53 P 42 57.53 0.2
 ERK 4.68 55 P 42 59.32 1.5
 SHW 4.69 57 P 42 58.46 0.5
 VBEM 4.70 72 P 42 57.93 -0.2
 JLK 4.72 58 P 42 57.79 -0.5
 REMW 4.72 57 P 42 58.58 0.1
 ESD 4.74 57 P 43 00.60 1.9
 CDFW 4.77 58 P 42 58.71 -0.3
 KOSW 4.85 54 P 43 00.11 -0.1
 ASR 5.06 60 P 43 03.03 -0.2
 LON 5.23 53 P 43 04.59 -0.9
 RVC 5.24 51 P 43 05.35 -0.3
 GLK 5.25 56 P 43 07.02 1.2
 WPW 5.35 55 P 43 07.00 -0.3
 FMW 5.40 52 P 43 07.15 -1.0
 GSM 5.49 49 P 43 08.45 -0.8
 YKA 20.30 18 eP 46 23.80 0.1
 0.6s 0.30nm 2.8mb
 S.D. = 0.8 on 23 of 23 obs.
 ? APR 23, 1991 19h 52m 47.11 ± 0.90s
 40.496 N ± 10.8km 23.678 E ± 13.9km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 OUR 0.28 125 ePd 52 53.04 0.0
 eS 52 56.76
 SOH 0.41 323 ePd 52 55.28 -0.2
 eS 53 00.00
 PAIG 0.57 180 ePc 52 58.60 0.0
 eS 53 06.50
 KNT 0.89 319 ePd 53 04.40 0.2
 eS 53 16.20
 S.D. = 0.3 on 4 of 4 obs.
 & APR 23, 1991 20h 43m 11.04s
 60.111 N 153.084 W
 DEPTH = 121.8km
 3.1mb (1 obs.)
 SOUTHERN ALASKA (2)
 <AEIC>.
 RED 0.35 27 iPc 43 27.83 -0.9
 eS 43 41.21
 RS2 0.39 25 iPc 43 28.32 -0.8
 RSO 0.39 25 iPc 43 28.29 -0.8
 eS 43 41.49
 RDW 0.40 20 iPc 43 28.26 -0.9
 eS 43 42.57
 REF 0.42 26 iPc 43 28.51 -0.7
 RDN 0.43 21 iPc 43 28.53 -0.7
 NCT 0.46 10 iPc 43 28.59 -0.7
 eS 43 42.25
 DFR 0.52 22 iPc 43 28.77 -0.9
 RDT 0.57 36 iPc 43 29.25 -0.8
 PDB 0.65 240 iPd 43 29.29 -1.1
 eS 43 43.38
 AUE 0.77 191 iPd 43 30.44 -0.9
 AUH 0.77 194 ePd 43 30.80 -0.7
 AUI 0.80 193 ePd 43 30.70 -0.9
 eS 43 46.08

NNL 0.90 94 ePc 43 32.64 0.1
 XLV 0.95 133 eP 43 32.36 -0.7
 CNPM 1.10 121 ePc 43 33.85 -0.7
 eS 43 51.87
 NKA 1.11 54 iPc 43 35.60 1.0
 MCNL 1.13 215 iPd 43 33.56 -1.2
 CKL 1.15 18 iPc 43 34.65 -0.5
 eS 43 53.22
 BRLK 1.16 107 ePc 43 34.04 -1.2
 eS 43 52.18
 SPU 1.19 25 iPc 43 34.77 -0.7
 eS 43 53.33
 BGL 1.21 16 iPc 43 35.38 -0.4
 CDD 1.22 194 iPd 43 34.55 -1.3
 CRP 1.25 21 iPd 43 35.82 -0.5
 eS 43 55.46
 NCG 1.37 19 ePc 43 37.08 -0.6
 SLKM 1.48 73 eP 43 37.68 -1.1
 SYI 1.55 166 ePd 43 38.23 -1.2
 SVW 1.60 310 iPc 43 38.48 -1.7
 SUA 1.78 39 ePc 43 41.95 -0.5
 eS 44 05.54
 SEW 1.82 89 ePc 43 41.47 -1.3
 SKT 2.02 21 ePd 43 44.47 -0.9
 eS 44 10.77
 PMS 2.07 55 ePc 43 44.77 -1.2
 eS 44 10.69
 PWA 2.20 44 eP 43 46.72 -0.8
 PLRM 2.44 51 eP 43 48.98 -1.7
 KNK 2.62 58 ePc 43 50.78 -2.3
 LTI 2.62 89 eP 43 51.02 -2.0
 GHO 2.63 49 eP 43 51.27 -1.9
 CUT 2.67 29 ePc 43 52.71 -1.0
 KNIM 2.68 83 ePc 43 51.11 -2.7
 MTU 2.73 90 ePc 43 53.06 -1.4
 SML 2.88 52 eP 43 54.27 -2.2
 GLI 3.06 73 eP 43 55.87 -3.0
 SCM 3.30 56 eP 44 00.42 -1.6
 HUR 3.32 28 eP 44 01.76 -0.5
 VZW 3.36 71 eP 44 00.36 -2.5
 VLZ 3.48 70 eP 44 01.85 -2.6
 TRF 3.61 20 eP 44 04.78 -1.5
 KLU 3.77 65 ePc 44 05.86 -2.6
 RND 3.87 29 ePd 44 08.09 -1.7
 GLB 4.74 70 eP 44 18.95 -2.6
 NEA 4.86 21 eP 44 20.90 -2.2
 WRH 4.96 26 ePd 44 22.17 -2.3
 CRQM 4.97 78 eP 44 23.00 -1.8
 CCB 5.17 26 eP 44 24.80 -2.5
 HDA 5.17 31 ePd 44 25.02 -2.4
 RDS 5.26 24 eP 44 26.48 -2.1
 MDM 5.36 23 ePd 44 27.58 -2.4
 BALM 5.38 75 eP 44 28.53 -1.8
 GLM 5.56 26 eP 44 30.04 -2.6
 CTGM 5.86 77 ePc 44 35.57 -1.4
 PNL 6.90 88 eP 44 48.87 -2.2
 YKA 18.44 66 eP 47 16.50 -2.9
 0.4s 0.40nm 3.1mb
 62 obs. associated
 * APR 23, 1991 21h 16m 23.40 ± 0.90s
 71.895 N ± 6.8km 6.663 W ± 11.1km
 DEPTH = 10.0km (geophysicist)
 3.8mb (2 obs.)
 JAN MAYEN ISLAND REGION (639)
 JNW 1.04 214 iPd 16 43.06 0.1
 eS 16 54.67
 JNE 1.05 211 iPc 16 43.18 0.0
 eS 16 55.26
 JMI 1.18 215 iPd 16 45.06 -0.3
 iS 16 58.42
 DAG 5.88 332 iPc 17 52.00 -0.5
 0.3s 35.06nm 5.6mb X
 iPP 18 50.00
 HFS 14.29 135 P 19 47.50 -0.1
 0.7s 2.50nm 4.0mb
 e 19 57.90
 YKA 37.20 313 eP 23 36.50 0.7
 0.9s 1.00nm 3.6mb
 S.D. = 0.5 on 6 of 6 obs.
 * APR 23, 1991 23h 55m 30.97 ± 0.69s
 21.320 S ± 21.8km 173.345 W ± 7.7km
 DEPTH = 34.2km (4 depth phases)
 4.7mb (9 obs.) 4.6MsZ (1 obs.)
 TONGA ISLANDS (173)

PRI	8.35	291	eP	57	32.40	-0.3						CNPM	2.75	183	eP	16	15.03	-0.1		
SGE	9.03	293	ePc	57	41.10	-1.1	BGF	0.8s	4.05nm			DDM	2.79	54	ePd	16	15.40	-0.4		
RAR	12.66	92	P	58	29.00	-2.4		0.7s	3.30nm	15	31.10	10.2X	MTU	2.79	143	ePc	16	12.92	-2.9	
			S	01	10.00		LSF	154.78	8	ePKP	15	31.10	10.0X	HDA	2.82	38	iPc	16	14.40	-1.7
DZM	18.80	264	iPc	59	50.90	0.7	TCF	154.83	7	ePKP	15	31.30	10.1X	RDS	2.87	25	eP	16	14.80	-2.1
ASPA	48.57	257	eP	04	15.50	2.2	MAF	154.94	7	ePKP	15	32.00	10.7X			eS	16	46.60		
	0.9s	11.40nm			4.9mb		LPG	155.89	360	ePKP	15	34.80	11.8X	PDB	2.93	214	ePc	16	16.78	-0.9
Z	19s	0.60um			4.6msz			S.D. = 1.3	on	28	of	58	obs.	MDM	2.98	23	iPc	16	16.32	-2.1
			i	05	42.50	442kmX							FBA	3.01	27	eP	16	17.00	-1.8	
WB2	48.78	262	iPd	04	13.90	-1.1		&	APR 24, 1991	00h	15m	32.53s	GLM	3.17	29	eP	16	19.03	-2.1	
	1.3s	6.10nm			4.5mb			62.25N			150.981W	DOT	3.45	63	eP	16	23.22	-1.8		
			i	05	42.40	451kmX			DEPTH = 70.0km			GLB	3.50	100	ePc	16	23.37	-2.3		
			P	09	25.20			CENTRAL ALASKA			(1)	CDD	3.59	203	eP	16	26.21	-0.7		
WRA	48.79	262	P	04	14.00	-1.0		<AEIC>.				SYI	3.73	191	eP	16	27.35	-1.5		
	1.3s	6.10nm			4.5mb							IMA	4.00	344	eP	16	31.00	-1.8		
PRI	75.80	42	eP	07	19.60	4.0X	CUT	0.36	66	ePc	15	43.76	-0.5	BALM	4.30	103	eP	16	34.16	-2.9
MWC	76.26	45	eP	07	15.00	-3.3X	SKT	0.38	223	iPd	15	43.95	-0.5	INK	9.47	43	P	17	45.00	-3.4
PLM	76.52	46	eP	07	32.00	12.2X				eS	15	52.60			0.3s	1.20nm		4.3mb	X	
RVR	76.56	45	eP	07	15.00	-4.7X	PWA	0.80	139	iPd	15	48.38	-0.4		65	obs. associated				
SBB	76.69	44	eP	07	22.00	1.5				eS	16	00.87								
FRI	76.93	41	eP	07	21.80	0.1	SUA	0.81	172	iPd	15	48.66	-0.4							
CMB	77.19	40	ePc	07	23.40	0.2				eS	16	01.76			APR 24, 1991	00h	32m	01.69±	0.41s	
CLC	77.53	43	eP	07	26.00	0.9	HUR	0.95	40	iPc	15	49.77	-0.9		42.634 N ± 3.1km	144.759 E ± 2.3km				
GLA	77.72	47	eP	07	24.00	-2.2				S	16	03.54			DEPTH = 59.4 ± 3.8 km					
GSC	77.73	44	eP	07	26.00	-0.3	NCG	1.02	214	ePd	15	50.73	-1.0		5.5mb (97 obs.)					
TNP	79.16	42	P	07	34.50	0.3				S	16	05.76			HOKKAIDO, JAPAN REGION		(224)			
	0.7s	7.78nm			4.8mb		GHO	1.09	116	ePd	15	52.11	-0.4		CENTROID, MOMENT TENSOR		(HRV)			
			pP	07	45.50	36km	PLRM	1.10	127	eP	15	52.00	-0.6		Data Used: GDSN					
ALO	84.57	49	e																	

24d 00h

Z 27s	2.60um				BRW	40.26	25 P	39 32.80	-0.9	LBFM	65.69	56 P	42 43.80	1.6
N 12s	0.80um				PDB	40.29	43 P	39 34.60	0.5	NUR	66.22	332 iP	42 43.40	-1.5
E 10s	0.50um				IMA	40.58	33 iPc	39 36.90	0.2		0.8s	70.40nm		5.7mb
	S	38 31.00				0.8s	116.30nm		5.7mb	SES	66.26	43 ePc	42 44.70	-0.7
YAK	21.38	340 eP	36 40.40	-5.3X	WMO	40.88	292 iPc	39 39.60	0.3	KOD	66.45	262 eP	42 47.20	-0.2
		iPP	36 56.00	70kmX		1.5s	100.00nm		5.4mb	MIN	66.46	56 iPc	42 45.70	-1.3
		iPP	37 05.00		Z 16s	1.00um			4.8MsZx	ASPA	66.72	191 iPd	42 48.90	0.4
		iPPP	37 22.00		N 13s	1.20um					1.0s	19.90nm		5.1mb
		iS	40 32.00			PP	41 11.30			NSS	66.94	340 iPc	42 47.84	-1.6
		eSS	41 01.00			PcS	45 30.50			ORV	67.00	57 iPc	42 50.00	-0.3
		eSSS	41 39.00			S	45 47.00			BRK	67.53	59 ePc	42 54.80	1.2
		iScS	48 02.00			ScS	49 38.90			BKS	67.54	59 e(P)	42 54.00	0.3
		ePSP	48 25.00		PMR	42.64	40 ePc	39 53.20	-0.2	GDH	67.62	7 iPc	42 59.00	5.4X
BJI	21.58	273 eP	36 47.50	-0.4		1.1s	106.60nm		5.5mb		1.5s	166.67nm		5.8mb
	1.5s	190.00nm		5.3mb	FBA	43.02	35 iPc	39 57.30	0.8	FFC	67.63	35 iPc	42 53.50	-0.5
N 14s	0.85um				TOA	43.98	39 iPc	40 05.40	1.0		0.9s	71.00nm		5.7mb
	eS	40 38.00			KLU	44.18	40 P	40 06.40	0.4	PCC	67.68	59 ePc	42 54.30	-0.2
SSE	22.02	246 eP	36 55.20	2.8X	LSA	44.47	271 P	40 10.40	1.2	GCC	68.21	59 ePc	42 57.90	0.0
	Z 20s	1.40um		4.4MsZ	CHG	45.29	253 ePc	40 16.20	0.9	MHC	68.24	59 ePc	42 58.50	0.2
N 12s	0.50um				CHTO	45.29	253 iP	40 16.10	0.8	ARN	68.31	59 P	42 58.80	0.2
E 12s	0.60um					1.0s	15.50nm		4.8mb	LRM	68.40	47 iPc	42 59.20	-0.1
	PP	37 09.50			SHL	46.22	266 iP	40 22.50	-0.3	CMB	68.61	58 iPc	43 00.70	0.3
	S	40 52.00			INK	48.24	30 eP	40 37.00	-0.9			e	43 24.20	
SMY	22.04	53 eP	36 53.40	1.0		0.5s	40.00nm		5.7mb	SAO	68.72	59 eP	43 00.90	-0.2
	1.2s	447.80nm		5.8mb	KHT	48.28	249 eP	40 40.50	1.7	RMQ	68.88	176 iPc	43 02.30	0.4
TIA	22.23	262 Pd	36 54.10	-0.4	GUN	49.33	273 P	40 47.00	-0.2			e	43 19.50	
	Z 26s	1.00um		4.1MsZx	KKN	49.83	273 P	40 50.54	-0.4	PRS	69.03	60 iPc	43 03.30	0.3
E 14s	1.00um				PKI	49.86	273 P	40 50.60	-0.7	UPP	69.04	334 iPc	43 01.10	-1.4
	S	40 53.00			DMN	50.06	273 P	40 52.36	-0.4	LLA	69.13	59 iPc	43 04.00	0.4
NJ2	23.06	251 Pd	37 05.60	3.0X	GKN	50.19	274 P	40 52.94	-0.6	HPI	69.38	49 P	43 06.00	0.6
	Z 20s	1.00um		4.3MsZ	SIT	50.52	44 ePc	40 57.00	1.6	KVN	69.39	56 P	43 06.20	0.8
N 15s	1.10um					1.3s	139.40nm		5.8mb	PRI	69.60	59 ePc	43 07.30	0.7
E 13s	0.90um				NDI	55.26	279 iPc	41 30.00	-1.0	FRI	69.68	58 iPc	43 07.00	0.1
	PP	37 16.00			KBS	55.60	350 iP	41 31.80	-1.1			e	43 30.80	
HHC	24.75	277 eP	37 19.40	0.4	YKA	57.69	33 eP	41 46.00	-1.9	MOL	69.68	340 iP	43 05.65	-0.9
	1.2s	100.00nm		5.2mb		0.9s	22.30nm		5.3mb	BONR	69.95	57 P	43 09.60	0.7
Z 28s	1.00um			4.2MsZx	KEV	59.13	339 iP	41 56.40	-1.5	NB2	70.00	338 P	43 07.30	-1.2
	S	41 35.00				0.8s	46.90nm		5.7mb		0.4s	22.50nm		5.5mb
TIY	25.09	270 Pc	37 23.70	1.5	DAG	60.42	356 iPd	42 04.30	-2.3	HFS	70.03	336 iPc	43 07.20	-1.4
	1.1s	40.00nm		4.8mb		0.8s	58.21nm		5.8mb		0.4s	34.40nm		5.6mb
Z 18s	1.22um			4.5MsZ	KTK1	60.63	339 iPc	42 06.60	-1.6	Z 18s		0.45um		4.8MsZ
E 11s	0.35um				PGC	60.67	49 eP	42 08.50	-0.2			e	43 10.80	
	S	41 45.00			SOD	60.82	337 iP	42 07.60	-1.8			e	43 20.20	
BTO	25.95	277 P	37 30.50	0.3	TRO	61.26	341 eP	42 10.84	-1.6			ePcP	43 27.20	
	N 13s	0.50um			GMW	61.64	50 P	42 15.20	-0.2			LR	11 20.00	
E 13s	0.60um				QUE	61.80	286 iPc	42 15.90	-1.0	PTI	70.33	50 P	43 11.20	0.2
	PP	37 43.50			QUE	61.80	286 eP	42 26.90	10.0X	IMW	70.46	48 P	43 06.80	-5.1X
	ePP	38 10.00					eS	50 33.20		TNP	70.54	56 iP	43 13.00	0.6
WHN	27.09	254 eP	37 37.50	-3.0X	BMW	61.98	51 P	42 17.40	-0.3		1.0s	95.00nm		5.7mb
	Z 20s	0.90um		4.3MsZ	RMW	62.25	50 P	42 19.60	0.1	BCH	70.56	60 P	43 13.20	0.7
N 14s	1.10um				CTA	62.42	178 iPd	42 20.00	-0.6	FRB	70.72	15 ePc	43 11.40	-1.4
E 12s	0.70um					1.3s	40.38nm		5.4mb	TAB	70.80	304 eP	43 14.00	0.1
	SP	37 58.00			PNT	62.42	47 iPc	42 19.60	-0.9	HYA	71.22	340 eP	43 15.10	-0.7
	eS	42 12.00				0.9s	49.00nm		5.6mb	ISA	71.28	59 eP	43 15.00	-1.8
ADK	27.47	57 e(P)	37 42.60	-1.2	LON	62.64	51 P	42 22.00	0.0	CLC	71.74	58 eP	43 19.00	-0.5
OZH	27.84	239 eP	37 51.50	4.1X	SHW	62.71	51 P	42 23.00	0.4	DUG	71.81	52 P	43 20.40	0.5
	0.8s	40.00nm		5.1mb	WB2	63.00	191 iPc	42 23.90	-0.6		1.3s	74.00nm		5.5mb
XAN	29.22	265 Pd	38 00.40	0.6		1.1s	18.10nm		5.1mb	BW06	71.96	48 P	43 20.80	-0.1
LZH	32.06	272 eP	38 25.50	0.5	WRA	63.00	191 P	42 23.00	-1.5		1.5s	137.30nm		5.7mb
	1.5s	140.00nm		5.6mb		1.1s	17.90nm		5.1mb	ASK	72.05	340 eP	43 20.50	-0.3
Z 18s	1.07um			4.6MsZ	QIS	63.05	185 eP	42 23.00	-1.8	SBB	72.31	59 eP	43 23.00	0.1
N 12s	0.45um				EDM	63.40	41 ePc	42 26.00	-0.9	MWC	72.46	60 eP	43 24.00	0.1
	PP	38 36.00			MAIO	63.45	296 iPc	42 27.20	-0.4	GSC	72.56	58 eP	43 25.00	0.6
	SP	38 44.00					e	51 05.00		DAU	72.57	51 P	43 25.20	0.6
	PP	39 33.00			POO	63.76	272 eP	42 28.50	-1.2	KER	72.68	301 iPc	43 25.00	-0.1
	eS	43 27.00			GBA	64.26	265 Pc	42 32.60	-0.3	RVR	73.04	59 eP	43 26.00	-1.1
GTA	33.76	280 P	38 39.80	0.1		0.4s	3.70nm		4.7mb	PEC	73.25	59 P	43 28.40	0.1
	1.0s	10.00nm		4.7mb	NEW	64.38	47 P	42 33.20	-0.2	MSU	73.29	53 P	43 29.40	0.7
	PP	38 48.60				1.2s	90.91nm		5.6mb	PLM	73.78	60 eP	43 31.00	-0.6
	PcP	41 18.80			KAF	64.52	333 iP	42 32.30	-1.7	TPC	73.81	59 eP	43 31.00	-0.6
CD2	34.55	264 iPd	38 47.00	0.5		0.4s	15.60nm		5.4mb	RSSD	73.98	44 P	43 32.30	-0.4
	Z 13s	0.80um		4.6MsZx	FHC	64.72	57 ePc	42 36.90	1.2		1.5s	97.93nm		5.5mb
	S	44 10.00			QBN	65.16	323 iP	42 36.90	-1.3	CQP	74.05	334 iPc	43 32.20	-0.3
GYA	34.95	255 P	38 50.40	0.4		1.2s	198.00nm		6.0mb		0.7s	63.01nm		5.7mb
	N 15s	1.20um				Z 16s	1.10um		5.1MsZx	BAR	74.34	60 eP	43 35.00	0.3
E 15s	0.80um					N 16s	0.60um			MUD	74.41	336 iPc	43 34.30	-0.3
	PcP	41 22.20				E 16s	0.70um				0.8s	10.00nm		4.8mb
	S	44 16.00					iPcP	42 50.00		IAS	74.72	321 eP	43 37.00	0.5
ANM	35.50	35 iPc	38 54.70	0.5			i	43 07.00		GLA	75.27	59 P	43 34.20	-5.8X
QIZ	37.70	242 eP	39 08.50	-4.6X			e	43 23.00		GLA	75.27	59 eP	43 40.00	0.0
KMI	38.56	257 Pc	39 22.00	1.4			i	43 41.00		VRI	76.09	321 ePd	43 43.50	-0.9
	2.0s	70.00nm		5.2mb			ePP	44 55.00		GOL	76.36	48 P	43 47.00	0.6
	PP	39 33.50					eS	51 13.00			1.4s	45.69nm		5.2mb
	SP	39 37.50					ePS	51 56.00		CVO	76.38	321 ePd	43 49.00	2.9X
TTA	39.39	38 iPc	39 27.50	0.6			eSS	56 00.00		GLD	76.41	48 P	43 48.00	1.5
SVW	39.54	41 iPc	39 29.40	1.3			eSSS	58 24.00			1.4s	67.57nm		5.4mb

SPC	76.41	326	eP	43	46.30	-0.1	DOU	81.30	335	P	44	11.90	-0.7	FIR	84.42	328	e(PKP)	44	29.00	0.4
KSP	76.65	329	iPc	43	47.50	0.1	GWF	81.30	333	P	44	12.40	-0.2	GRR	84.43	338	iPc	44	28.60	-0.1
	1.2s	94.00nm			5.6mb		PLE	81.39	323	iPc	44	14.20	0.9		1.1s	61.05nm			5.6mb	
		i		44	00.80		VBY	81.39	327	eP	44	13.00	-0.1	BDI	84.43	329	P	44	28.40	-0.5
MLR	76.73	321	ePd	43	50.00	1.8	KNT	81.47	320	ePc	44	13.90	0.3	LSD	84.50	332	P	44	29.79	0.4
CMP	77.32	321	ePc	43	47.00	-4.3X	FVI	81.47	329	P	44	13.40	-0.1	SMF	84.58	334	iPc	44	29.20	-0.3
BBTK	77.42	313	iPc	43	53.00	1.0	VAY	81.50	320	iP	44	14.20	0.4		1.2s	86.30nm			5.7mb	
CLL	77.47	331	iPc	43	51.70	-0.2		1.3s	56.00nm			5.4mb	LPL	84.60	332	iPc	44	30.00	0.1	
	1.2s	105.00nm			5.7mb		VOY	81.50	328	eP	44	12.90	-0.9		1.3s	54.15nm			5.5mb	
		ipP		44	04.40	43kmX	SOH	81.51	319	ePd	44	13.54	-0.4	AVF	84.61	334	iPc	44	29.40	-0.2
BRG	77.50	331	iPc	43	52.00	-0.1	IVA	81.53	322	iPc	44	14.65	0.7		1.4s	135.05nm			5.8mb	
	1.4s	48.00nm			5.3mb		SKO	81.53	321	iPc	44	14.80	0.9	LPG	84.61	332	iPc	44	30.00	0.0
		i		44	05.10			1.2s	131.00nm			5.8mb		1.3s	65.00nm			5.5mb		
EDU	77.52	342	ePc	43	51.80	-0.3	Z	19s	0.85um			5.1MsZ	RSP	84.73	331	P	44	29.27	-1.1	
PSZ	77.55	326	eP	43	54.20	1.7	N	18s	0.58um				AQU	84.75	326	P	44	30.90	0.5	
ELO	77.74	343	ePc	43	53.10	-0.3	E	20s	1.22um				PCP	84.79	330	P	44	30.61	0.0	
EBH	77.90	343	ePc	43	54.20	0.0		LR	23	59.00			LPF	84.80	338	iPc	44	30.70	0.2	
	1.2s	192.00nm			6.0mb	CEY	81.53	327	eP	44	13.80	-0.1		1.3s	93.85nm			5.7mb		
PRU	78.00	330	Pc	43	55.30	0.4	SOTA	81.54	330	iPc	44	14.20	0.2	DUI	84.88	325	Pc	44	31.50	0.3
	1.2s	61.10nm			5.5mb		1.3s	87.20nm			5.6mb	BGF	84.97	335	iPc	44	31.20	-0.2		
Z	20s	1.00um			5.1MsZ			i		44	27.80			1.4s	61.00nm			5.5mb		
N	20s	0.60um				ZNT	81.54	306	iPc	44	16.00	1.9	CKI	84.99	330	Pc	44	31.00	-0.6	
E	20s	0.90um				PVY	81.71	322	iPc	44	16.90	1.9	MNS	85.02	326	Pc	44	31.40	-0.4	
		e		44	08.30		ETA	81.79	343	eP	44	16.60	1.5	BN1	85.02	332	P	44	35.20	3.3X
		e		44	16.20		GRG	81.86	320	ePc	44	15.66	-0.1	AZI	85.04	326	P	44	32.20	0.4
ESY	78.00	342	ePc	43	54.60	-0.2	WLS	81.88	333	P	44	15.48	-0.2	RRL	85.10	331	P	44	32.66	0.3
EAB	78.14	343	ePc	43	55.50	0.0	OGA	81.90	330	iPc	44	16.60	0.6	SDI	85.11	325	Pc	44	31.90	-0.4
	1.1s	151.00nm			5.9mb		1.2s	84.00nm			5.6mb	FIN	85.20	330	P	44	31.63	-1.0		
BUD	78.26	326	eP	43	56.60	0.3	CDF	81.90	333	P	44	15.70	-0.2	ROB	85.25	330	P	44	32.04	-0.9
SRO	78.29	326	iP	43	57.00	0.5	NKY	81.97	323	iPc	44	16.00	-0.4	PZZ	85.35	331	P	44	31.22	-2.3
ZST	78.47	327	eP	43	57.90	0.4	SLE	82.04	332	ePd	44	16.60	0.1	MAF	85.36	335	iPc	44	33.80	0.4
MOX	78.51	332	iPc	43	57.90	0.2	BRY	82.11	323	iPc	44	16.67	-0.4		1.4s	126.35nm			5.8mb	
	1.6s	80.00nm			5.4mb	FEL	82.12	332	P	44	16.68	-0.4	BST	85.36	340	P	44	34.10	0.7	
		e		44	10.50		TTG	82.16	323	iPc	44	17.32	0.2	FVM	85.37	41	P	44	33.60	0.0
EKA	78.67	342	Pc	43	58.50	0.1	PHP	82.21	321	iPc	44	17.00	-0.4	RFI	85.38	325	P	44	35.10	1.6
	0.9s	30.80nm			5.3mb	ECB	82.23	343	eP	44	17.80	0.5	TCF	85.41	335	iPc	44	33.70	0.0	
HOF	78.70	331	iPc	43	58.70	0.0	ECP	82.31	343	eP	44	18.40	0.6		1.3s	45.15nm			5.4mb	
	1.0s	35.00nm			5.3mb		0.8s	126.00nm			6.0mb	ENR	85.47	331	P	44	31.33	-2.8		
VKA	78.72	328	iPc	44	00.10	1.2	ZLA	82.32	332	iPd	44	18.30	0.3	STV	85.49	331	P	44	31.43	-2.8
	2.0s	149.00nm			5.6mb	CTI	82.36	329	Pc	44	17.60	-0.7	RDP	85.53	326	P	44	34.60	0.2	
Z	16s	6.00um			6.0MsZ	OSS	82.38	330	ePd	44	19.10	0.6	SSB	85.56	333	P	44	34.81	0.4	
WTS	78.96	335	eP	44	00.00	0.0	SDA	82.38	322	iPc	44	18.80	0.5	LSF	85.66	335	iPc	44	34.90	0.0
	0.9s	19.00nm			5.0mb	MOF	82.44	333	P	44	18.03	-0.6		1.3s	110.10nm			5.8mb		
		e		44	13.00		FNA	82.49	320	iPc	44	18.86	-0.1	TDS	85.70	323	P	44	35.40	0.2
KHC	79.07	330	iPc	44	01.40	0.6	HCY	82.49	323	iPc	44	18.45	-0.4	SBF	85.78	331	iPc	44	34.90	-0.7
	1.2s	25.00nm			5.0mb	VITF	82.50	334	P	44	18.18	-0.6		1.3s	144.40nm			6.0mb		
Z	20s	1.00um			5.1MsZ	ULC	82.54	322	iPc	44	19.08	-0.1	MFF	85.85	337	iPc	44	36.00	0.2	
N	20s	0.50um				HAU	82.57	333	iPc	44	18.70	-0.5		1.3s	93.85nm			5.8mb		
E	20s	0.50um					1.1s	22.00nm			5.1mb	FRF	86.33	331	eP	44	37.80	-0.4		
		i		44	14.00		Z	20s	0.60um			5.0MsZ		1.2s	59.50nm			5.6mb		
ANMO	79.07	52	P	44	00.00	-1.3	BSF	82.57	333	iPc	44	18.70	-0.7	CLE	86.43	33	iP	44	39.40	0.6
	1.4s	232.56nm			5.9mb		1.3s	36.10nm			5.2mb	ELC	86.50	40	P	44	39.60	0.4		
ALO	79.07	52	ePc	44	02.00	0.7	LACI	82.59	322	iPd	44	20.00	0.6	RJF	86.51	335	iPc	44	39.30	0.2
	1.3s	47.12nm			5.3mb	LLS	82.64	331	ePd	44	20.20	0.3		1.2s	65.45nm			5.7mb		
UZD	79.15	325	eP	44	01.50	0.3	TIR	82.75	321	eP	44	20.50	0.3	Z	22s	0.88um			5.1MsZ	
SCH	79.26	18	eP	44	01.00	-0.7	VDL	82.79	331	iPd	44	21.00	0.3	LRG	86.52	331	eP	44	38.90	-0.2
WET	79.31	330	iPc	44	02.60	0.5	PRNI	82.90	305	iPc	44	23.40	2.1		1.4s	152.50nm			6.0mb	
	1.2s	124.00nm			5.7mb	LOMF	82.97	333	P	44	21.31	-0.1	Z	21s	0.85um			5.1MsZ		
GRF	79.45	331	iPc	44	03.50	0.7	VAL	83.34	345	iP	44	20.90	-2.2	CDR	86.54	332	iPc	44	39.00	-0.3
	1.5s	151.00nm			5.7mb	LSK	83.35	320	eP	44	23.90	0.4	LMR	86.58	331	iPc	44	39.20	-0.2	
Z	22s	0.50um			4.8MsZ	MEO	83.64	48	iPc	44	26.20	1.2		1.1s	75.70nm			5.8mb		
		e(Pp)		44	16.50	44kmX	MMK	83.70	331	ePd	44	26.10	0.7	CAF	86.68	334	iPc	44	40.70	0.7
BNS	79.73	334	iPc	44	04.30	0.0	RSM	83.82	327	Pc	44	26.70	1.1	WVLY	86.74	31	P	44	40.40	0.1
	1.3s	111.00nm			5.6mb	DIX	83.87	332	ePd	44	27.10	0.8	LFF	87.08	335	iPc	44	42.60	0.8	
BEO	79.74	323	eP	44	04.00	-0.4	IGT	83.96	320	ePd	44	26.26	-0.2		1.3s	122.75nm			5.9mb	
TNS	79.95	333	ePc	44	05.60	0.0	ARV	83.98	327	Pc	44	26.80	0.2	LPO	87.17	335	iPc	44	42.90	0.6
ALN	80.13	318	ePc	44	06.94	0.4	FLN	83.98	338	iPc	44	26.00	-0.4		1.3s	111.90nm			5.9mb	
ENN	80.30	335	iPc	44	07.00	-0.3		0.7s	15.45nm			5.1mb	BNH	87.38	25	P	44	44.00	0.6	
	1.0s	50.00nm			5.4mb		Z	21s	0.88um			5.1MsZ	EPF	88.93	335	iPc	44	50.60	-0.2	
		e		44	20.50		LOR	84.02	334	iPc	44	26.00	-0.7		1.3s	21.65nm			5.3mb	
HRI	80.39	307	iPc	44	10.00	1.8		1.2s	63.95nm			5.5mb	TBR	89.48	28	P	44	53.90	0.5	
MEM	80.41	335	iPc	44	07.55	-0.3		Z	20s	0.65um			5.0MsZ	LVNJ	89.58	29	P	44	54.00	0.1
		i		12	26.80		LDF	84.04	337	iPc	44	26.20	-0.5	RSCP	89.59	39	P	44	53.50	-0.6
BHG	80.50	329	eP	44	09.20	0.8		0.7s	12.15nm			5.0mb		1.1s	55.90nm			5.8mb		
	1.0s	68.00nm			5.5mb	EMS	84.05	332	ePd	44	27.60	0.5	TOL	93.14	336	iPd	45	11.00	0.7	
ABH	80.55	334	eP	44	08.34	-0.3	SFI	84.06	328	Pc	44	28.00	1.1		1.1s	151.90nm			6.3mb	
FUR	80.72	331	eP	44	10.00	0.4	PGD	84.15	328	Pc	44	28.70	1.1	SLR	126.03	267	iPKPc	51	00.20	1.3
	1.3s	97.00nm			5.6mb	LBF	84.24	334	iPc	44	27.10	-0.7		0.3s	12.99nm					
UCC	8																			

24d 00h

PEL 150.65 83 iPKP 51 49.00 6.4X
 1.0s 210.00nm
 TACH 150.71 84 ePKP 51 49.00 6.4X
 PCH 151.00 84 iPKPc 51 50.00 6.8X
 PPD 155.46 38 ePKP 51 50.60 1.0
 S.D. = 0.8 on 306 of 330 obs.

APR 24, 1991 01h 34m 03.07±0.33s
 20.499 N ± 4.4km 97.972 E ± 5.6km
 DEPTH = 33.0km (normol)
 4.4mb (9 obs.)

BURMA (296)

CHG 1.91 151 iPnc 34 34.10 0.2
 iPg 34 37.50
 iSg 35 02.00

BDT 3.38 163 ePn 34 55.30 0.5
 ePg 35 05.80
 eSg 35 48.80

LOE 4.70 130 ePn 35 06.00 -7.6X
 NST 5.22 156 ePn 35 21.00 0.1
 ePg 35 39.00
 eSg 36 46.10

KHT 5.71 174 iPn 35 28.50 0.6
 ePg 35 52.00
 eSg 37 04.50

KMI 6.37 43 ePn 36 02.50 25.2X
 Pg 36 13.00
 Sg 37 25.00

PCT 6.65 150 ePn 35 40.80 -0.2
 ePg 36 03.30
 eSg 37 27.10

SHL 7.54 313 iP 35 53.50 -0.2
 LSA 11.05 327 eP 36 46.00 3.7X
 N 17s 6.80um

QIZ 11.27 95 eP 36 40.80 -4.2X
 CD2 11.60 26 eP 36 49.00 -0.4
 eS 39 04.50

GUN 13.27 306 P 37 12.46 0.4
 PKI 13.46 304 P 37 14.44 -0.1
 KKN 13.67 305 P 37 16.58 -0.6

DMN 13.71 304 P 37 17.36 -0.5
 GKN 14.27 304 P 37 24.36 -0.6
 LZH 16.36 17 eP 37 52.60 0.6

1.5s 48.00nm 4.4mb
 Z 13s 0.51um 4.4MsZ
 N 10s 0.38um

PP 38 03.50
 SP 38 10.00

XAN 16.62 33 eP 37 56.50 1.4
 PSI 17.72 177 ePc 38 16.50 7.5X
 WHN 17.83 53 eP 38 14.50 4.2X
 N 11s 0.60um
 E 11s 0.40um

GTA 18.92 4 eP 38 23.60 -0.2
 1.2s 10.00nm 3.9mb

NDI 20.54 297 eP 38 41.00 -0.4
 GBA 20.78 254 Pd 38 45.60 1.6
 0.6s 10.40nm 4.4mb

TIY 21.26 33 Pd 38 47.80 -1.0
 KOD 22.22 246 eP 39 02.50 3.6X
 BTO 22.52 25 eP 39 00.20 -1.2

HHC 23.36 27 P 39 11.80 2.2
 WMO 24.79 342 P 39 25.20 1.8
 1.0s 20.00nm 4.7mb

WRA 53.69 136 P 43 23.00 -1.2
 0.7s 2.10nm 4.3mb

WB2 53.70 136 iPc 43 23.10 -1.2
 0.6s 2.10nm 4.3mb

VR1 62.64 312 ePd 44 31.00 4.3X
 MLR 63.20 311 eP 44 32.00 1.5
 SOD 64.08 336 eP 44 35.00 -0.8

KEV 64.36 339 eP 44 34.00 -3.5X
 HFS 69.62 328 eP 45 09.90 -1.0
 0.6s 3.20nm 4.6mb

e 45 13.50
 e 45 17.20

NB2 70.74 329 P 45 16.80 -0.9
 0.8s 3.00nm 4.4mb

INK 83.91 17 eP 46 31.00 0.4
 YKA 93.35 15 eP 47 15.10 -0.7
 1.1s 1.00nm 4.2mb

S.D. = 1.0 on 29 of 38 obs.

APR 24, 1991 01h 41m 48.84±0.30s
 7.786 N ± 4.9km 126.855 E ± 8.0km
 DEPTH = 33.0km (normol)

4.8mb (13 obs.) 4.6MsZ (2 obs.)
 MINDANAO, PHILIPPINE ISLANDS (259)

DAV 1.45 241 iPc+ 42 19.80 6.9X
 QCP 8.86 321 eP 43 39.00 -18.6X
 BAG 10.54 325 eP 44 31.00 10.1X
 KUPT 18.11 190 eP 45 58.00 -1.7
 QIZ 19.95 306 eP 46 21.00 -0.1

N 15s 1.20um
 E 16s 0.80um

KGM 24.13 257 ePc 47 07.70 4.7X
 NST 27.29 289 eP 47 34.00 1.5
 WB2 28.53 165 iPd 47 48.20 4.5X
 0.7s 3.40nm 4.2mb
 iP 48 07.90 86kmX
 iPCp 51 05.80
 iS 52 21.40
 i 52 57.40
 iScP 54 33.80

CHG 29.24 295 eP 47 50.80 0.6
 QIS 30.83 156 iPc 48 02.90 -1.3
 i 48 04.20
 i 48 17.00

XAN 30.92 330 eP 48 03.00 -2.0
 ASPA 32.01 168 eP 48 16.20 1.6
 1.7s 9.30nm 4.4mb
 i 48 22.30
 i 51 00.20

TIY 32.53 338 eP 48 18.60 -0.5
 Z 21s 1.00um 4.5MsZ
 E 10s 0.33um

BJI 33.51 345 eP 48 24.00 -3.4X
 CTA 33.64 146 iPc 48 29.20 0.4
 1.3s 65.38nm 5.4mb
 iS 53 52.00

WARB 33.77 180 eP 48 30.00 0.2
 0.4s 8.00nm 5.0mb
 SNY 34.03 356 Pc 48 32.40 0.6
 1.0s 20.00nm 5.0mb
 LZH 35.14 327 eP 48 41.00 -0.8
 1.5s 23.00nm 4.9mb
 Z 15s 0.48um 4.4MsZ
 N 15s 0.89um

SP 48 55.00
 HHC 35.63 340 eP 48 45.00 -0.8
 CN2 35.89 358 P 48 47.90 0.1
 MDJ 36.77 3 Pc 48 56.40 1.3
 1.5s 200.00nm 5.8mb
 SP 49 07.80

FORR 38.43 178 iPc 49 08.80 -0.4
 BAL 39.39 194 eP 49 18.00 0.7
 GTA 39.75 327 eP 49 20.00 -0.4
 LSA 39.97 308 eP 49 23.20 0.5
 MUN 40.83 194 iPd 49 30.00 0.9
 RKG 42.66 192 eP 49 50.00 5.9X
 BRS 43.04 145 iPd 49 46.90 -0.5
 GUN 43.55 303 P 49 52.20 0.2
 PKI 43.84 302 P 49 54.00 -0.2
 0.7s 7.00nm 4.5mb
 KKN 44.02 302 P 49 54.70 -0.8
 DMN 44.10 302 P 49 57.10 0.8
 GKN 44.62 302 P 49 59.98 -0.4
 KOD 48.80 277 eP 50 34.10 0.5
 GBA 48.84 281 Pc 50 33.60 0.1
 0.6s 4.40nm 4.7mb
 WMO 49.53 323 P 50 39.00 0.4
 Z 15s 0.50um 4.6MsZ
 YAK 54.16 2 iPc 51 13.50 0.6
 GAR 59.33 311 eP 51 49.50 -0.8
 MAIO 67.20 306 eP 52 43.00 0.7
 OBN 83.82 325 eP 54 13.00 -3.2X
 Z 20s 0.30um 4.7MsZ
 KEV 86.15 340 eP 54 29.00 1.4
 INK 86.37 22 ePc 54 29.30 0.6
 SOD 86.79 338 iP 54 30.60 -0.2
 KAF 88.08 332 iP 54 36.60 -0.5
 0.8s 6.50nm 5.0mb
 esP 54 37.30
 NUR 89.24 331 iP 54 42.30 -0.3
 HFS 94.50 333 eP 55 06.20 -0.8
 0.9s 6.00nm 5.0mb
 Z 17s 0.14um 4.5MsZ
 e 55 14.50
 e 55 21.00
 LR 36 53.00

NB2 95.23 334 P 55 08.90 -1.5
 0.9s 2.30nm 4.6mb

YKA 95.77 24 eP 55 13.10 0.3
 0.9s 2.00nm 4.6mb
 S.D. = 0.9 on 40 of 48 obs.

% APR 24, 1991 02h 09m 09.98±0.90s
 16.669 N ± 10.1km 61.916 W ± 12.6km
 DEPTH = 33.0km (normol)

LEEWARD ISLANDS (92)
 ML 2.4 (FDF).

BPA 0.38 9 eP 09 19.57 0.7
 S 09 28.70
 SEG 0.47 124 eP 09 21.50 1.3
 S 09 31.00

PAG 0.67 160 eP 09 24.30 1.2
 S 09 37.80
 NEV 0.78 307 eP 09 24.00 -0.5
 S 09 37.30

SFG 0.80 121 eP 09 24.20 -0.6
 DEG 0.89 113 eP 09 24.87 -1.4
 BBL 1.21 160 eP 09 30.10 -0.6
 S.D. = 1.3 on 7 of 7 obs.

? APR 24, 1991 03h 11m 02.31±0.89s
 28.294 N ± 8.1km 105.084 E ± 13.3km
 DEPTH = 10.0km (geophysicist)
 SICHUAN PROVINCE, CHINA (307)
 ML 3.8 (BJI).

GYA 2.31 142 Pn 11 40.80 -0.3
 Pg 11 47.20
 Sn 12 11.80

CD2 2.85 336 Pn 11 48.40 -0.3
 Pg 11 56.60
 Sn 12 24.60
 Sg 12 32.40

KMI 3.79 214 eP 12 02.50 0.2
 XAN 6.60 29 Pn 12 42.20 0.3
 Pg 13 01.30
 Sn 13 58.50

QIZ 10.20 154 eP 13 25.80 -6.0X
 S.D. = 0.6 on 4 of 5 obs.

* APR 24, 1991 03h 39m 58.93±1.00s
 17.256 N ± 9.5km 120.927 E ± 16.3km
 DEPTH = 33.0km (normol)
 4.0mb (3 obs.) 4.0MsZ (1 obs.)
 LUZON, PHILIPPINE ISLANDS (249)

BAG 0.90 202 iPc+ 40 14.50 -0.9
 QCP 2.61 177 eP 40 43.00 3.3X
 QZH 7.95 344 eP 41 53.00 -2.1
 S 43 18.50

QIZ 10.68 281 eP 42 33.00 0.2
 N 11s 0.50um
 eS 44 25.10

NJ2 14.85 353 eP 43 25.80 -2.4
 E 11s 0.40um
 GYA 16.09 307 P 43 37.20 -7.2X
 N 18s 0.80um
 E 18s 0.50um

TIA 19.18 351 eP 44 23.80 1.2
 XAN 19.88 329 eP 44 30.50 0.1
 CD2 20.71 314 eP 44 38.80 -0.3
 E 11s 0.54um

CHG 20.96 278 eP 44 42.30 0.6
 TIY 21.71 342 eP 44 43.00 -6.2X
 Z 12s 0.60um 4.2MsZ
 E 11s 0.29um

BJI 23.07 351 eP 45 04.50 2.0
 LZH 24.11 324 Pc 45 14.00 1.1
 1.8s 35.00nm 4.6mb
 Z 20s 0.49um 4.0MsZ
 PP 45 18.50

SNY 24.59 5 eP 45 16.20 -1.1
 HHC 24.86 343 eP 45 25.00 5.0X
 WB2 39.25 160 iPd 47 25.60 -0.7
 0.8s 2.10nm 4.0mb

YKA 89.43 23 eP 52 56.00 2.4
 0.9s 0.60nm 3.9mb
 S.D. = 1.6 on 13 of 17 obs.

? APR 24, 1991 03h 44m 16.00±8.98s
 40.508 N ± 63.9km 22.696 E ± 25.6km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)

24d 03h

THE	0.24	59	ePd	44	21.00	-0.1	SCM	5.10	48	ePc	06	33.38	-4.3	MAN	7.87	316	P	59	20.00	8.4X
			iS	44	24.36		HUR	5.15	30	eP	06	34.67	-3.7	BAG	9.47	321	ePc+	59	32.00	-2.1
GRG	0.50	334	ePd	44	26.16	0.0	VLZ	5.16	57	eP	06	35.11	-3.3				eS	01	27.60	
			eS	44	33.96		TRF	5.40	25	iPc	06	38.72	-3.2	TSM	9.85	241	ePd	59	49.00	9.9X
SOH	0.59	58	iPd	44	28.08	0.1	KLU	5.50	55	iPc	06	39.03	-4.1	KKM	10.85	255	ePd	00	02.20	9.3X
			eS	44	36.20		TOA	5.70	49	ePc	06	42.14	-3.8		1.5s		313.40nm			6.4mb
KNT	0.67	13	ePd	44	29.36	0.0	RND	5.71	31	eP	06	41.75	-4.3	BKB2	14.17	224	iPc	00	52.50	15.1X
			eS	44	39.60		TZL	5.97	51	eP	06	46.45	-3.1	QZH	17.62	335	Pc	01	19.00	-2.6X
S.D. = 0.1 on 4 of 4 obs.							SDG	6.19	47	ePd	06	49.13	-3.4		Z	20s	80.90um			
& APR 24, 1991 04h 05m 22.26s							BWN	6.21	24	eP	06	48.68	-4.1		N	16s	38.40um			
58.648 N 155.310 W							GLB	6.40	59	ePd	06	51.77	-3.7		E	16s	22.40um			
DEPTH = 128.2km							PAX	6.48	44	eP	06	51.96	-4.5	HKC	17.88	319	iP	01	26.00	1.2
3.3mb (1 obs.)							CROM	6.51	66	eP	06	53.19	-3.9				eS	04	36.00	
ALASKA PENINSULA (12)							NEA	6.65	24	eP	06	53.79	-4.9	GUA	18.37	74	eP-	01	31.50	0.5
<AEIC>.							WRH	6.78	27	iPc	06	55.45	-5.1		0.8s		149.25nm			5.2mb
MCNL	0.74	43	iPc	05	42.14	-0.9	DDM	6.88	37	ePc	06	59.04	-2.9		Z	18s	67.77um			6.5MszX
			eS	05	57.66		BALM	6.96	64	eP	06	59.11	-3.9	GZH	18.97	319	P	01	38.00	-0.3
CDD	0.91	71	iPc	05	43.47	-1.1	CCB	7.00	27	eP	06	58.15	-5.3		0.8s		300.00nm			5.6mb
			eS	06	00.04		HDA	7.02	31	eP	06	58.71	-5.1		Z	18s	81.10um			4.7MszX
AUI	1.19	54	iPc	05	46.16	-1.1	RDS	7.07	26	eP	06	59.56	-4.9		N	17s	49.00um			
AUH	1.20	53	iPc	05	46.56	-0.9	MDM	7.16	25	ePc	07	00.55	-5.2		E	16s	61.30um			
			eS	06	04.64		FBA	7.21	26	ePc	07	01.28	-5.1				S	05	06.00	
AUE	1.23	54	iPc	05	46.75	-0.8	GLM	7.38	27	ePc	07	03.69	-5.0	QIZ	19.15	303	iPc	01	39.50	-1.0
PDB	1.28	26	iPd	05	46.72	-1.4	DOT	7.39	43	eP	07	04.12	-4.8		N	13s	18.80um			
			eS	06	06.55		CTGM	7.42	66	eP	07	05.92	-3.4		E	14s	28.20um			
SYI	1.53	90	eP	05	49.07	-1.8	YKA	20.12	62	eP	09	43.00	-4.5				iS	05	14.00	
			eS	06	10.73		0.4s 0.60nm 3.3mb							KUPT	19.32	189	ePd	01	40.00	-2.6X
XLV	2.02	65	eP	05	55.05	-1.8	70 obs. associated								0.5s	552.20nm			6.1mb	
			S	06	20.20		? APR 24, 1991 04h 41m 48.40± 2.07s							TRT	21.78	221	iPc	02	11.00	2.7X
RED	2.20	35	iPd	05	57.44	-1.7	9.135 N ±40.2km 82.502 W ±18.3km								0.6s		118.30nm			5.5mb
			eS	06	25.13		DEPTH = 10.0km (geophysicist)							MTN	22.18	169	eP	02	12.70	0.4
RS2	2.24	34	iPd	05	58.14	-1.6	4.3mb (7 obs.)							SSE	22.55	347	P	02	15.00	-0.9
			eS	06	26.13		PANAMA-COSTA RICA BORDER REGION (80)								1.6s		370.00nm			5.6mb
RSO	2.24	34	iPd	05	58.13	-1.6	MD 4.5 (SJR).								Z	20s	56.90um			6.0Msz
			eS	06	26.23		UPA	2.94	93	iPd	42	36.00	0.1		N	12s	19.80um			
RDW	2.24	34	iPd	05	58.05	-1.7				S	43	07.80			E	11s	15.30um			
			eS	06	25.98		LHS	25.27	3	P	47	17.00	0.6				iS	06	20.00	
NCT	2.27	31	iPd	05	58.40	-1.7	ALQ	33.77	323	eP	48	34.00	1.2	NJ2	24.04	343	Pd	02	30.00	-0.4
REF	2.27	35	iPd	05	58.50	-1.7		0.9s		1.47nm			3.9mb		0.8s		200.00nm			5.7mb
			eS	06	27.59		ANMO	33.77	323	P	48	40.00	7.2X		Z	20s	25.70um			5.7Msz
RDN	2.28	34	iPd	05	58.47	-1.7		1.2s		8.79nm			4.6mb		N	11s	13.90um			
			eS	06	27.38		GOL	36.65	330	P	48	56.20	-1.1		E	11s	13.70um			
CNPM	2.28	66	ePc	05	58.22	-1.9		0.7s		2.12nm			4.1mb				S	06	46.00	
			eS	06	25.01		RSSD	39.56	335	P	49	20.30	-1.3	KGM	24.32	255	ePc	02	36.50	3.2X
DFR	2.36	33	ePd	05	59.41	-1.8		0.7s		4.33nm			4.2mb	WHN	24.32	333	eP	02	34.00	0.8
			eS	06	28.22		BW06	41.04	329	P	49	34.50	0.6		1.2s		100.00nm			5.3mb
RDT	2.43	36	iPd	06	00.29	-1.8	TNP	42.49	318	P	49	46.50	0.7		Z	18s	24.30um			5.7Msz
			eS	06	29.62		PNT	50.61	329	eP	50	49.00	-0.5		N	10s	12.90um			
SVW	2.47	356	iPd	06	01.23	-1.4	YKA	58.12	343	eP	51	40.20	-4.1X		E	12s	30.40um			
			eS	06	29.50			1.0s		1.40nm			4.0mb	KNA	24.71	175	eP	02	37.00	0.0
NNL	2.49	54	eP	06	02.33	-0.4	INK	67.83	342	eP	52	45.00	-3.5X		0.5s		130.00nm			5.8mb
BRLK	2.54	62	eP	06	01.57	-1.8	FBA	71.41	336	P	53	10.90	0.4	KLM	25.63	258	eP	02	49.00	3.2X
			eS	06	29.81			1.0s		7.50nm			4.8mb	LOE	25.70	291	eP	02	48.00	1.5
CKL	2.96	29	iPd	06	07.18	-1.9	IMA	74.10	336	P	53	25.90	-0.6	GYA	25.73	315	iPc	02	46.00	-0.8
			eS	06	42.98			1.0s		5.00nm			4.5mb		5.0s		2300.00nm			6.1mb X
BGL	3.01	28	ePd	06	08.01	-1.6	SLR	112.59	114	iPKPd	00	07.50	-20.1X		Z	20s	30.10um			5.8Msz
SPU	3.02	31	iPd	06	07.76	-2.1	S.D. = 1.0 on 10 of 14 obs.								N	14s	27.10um			
			eS	06	44.70		APR 24, 1991 04h 57m 14.89± 0.20s								E	14s	24.50um			
CRP	3.07	30	ePd	06	08.50	-2.0	9.041 N ± 4.3km 126.739 E ± 5.2km										PP	03	28.00	
			eS	06	45.48		DEPTH = 13.8km (13 depth phases)										S	07	14.00	
NCG	3.19	28	iPd	06	10.51	-1.5	5.6mb (54 obs.) 6.0Msz (26 obs.)							IPM	25.91	262	ePd	02	49.70	1.3
SLKM	3.19	52	eP	06	09.51	-2.5	MINDANAO, PHILIPPINE ISLANDS (259)								0.9s		274.60nm			5.9mb
			eS	06	44.73		Mo=3.0*10**18 Nm (PPT).										e	04	32.20	
SEW	3.34	62	eP	06	11.53	-2.3	CENTROID, MOMENT TENSOR (HRV)							SNG	25.92	268	eP	02	51.10	2.5
			eS	06	46.93		Data Used: GDSN								1.1s		174.68nm			5.6mb
SUA	3.64	37	ePd	06	15.57	-2.4	L.P.B.: 22S, 59C										e	07	31.50	
			eS	06	56.90		Centroid Location:							SHK	25.95	11	eP	02	48.80	0.2
SKT	3.84	28	ePd	06	18.19	-2.4	Origin Time 04:57:23.3 0.4							NST	26.79	287	eP	02	58.20	1.6
			eS	07	02.47		Lot 9.27N 0.03 Lon 126.86E 0.04							PMG	27.37	132	eP	03	00.00	-1.8
PMS	3.89	46	ePd	06	18.28	-3.1	Dep 15.0 BDY Half-duration 4.2							KMI	27.88	308	eP	03	06.00	-0.7
PWA	4.05	40	eP	06	21.19	-2.3	Moment Tensor: Scale 10**18 Nm								2.5s		90.00nm			5.1mb
LTJ	4.07	67	iPc	06	20.85	-2.8	Mrr=1.50 0.04 Mtt=-0.18 0.05								Z	18s	32.60um			6.0Msz
MTU	4.15	68	iPc	06	21.97	-2.8	Mff=-1.32 0.07 Mrt=-0.50 0.14								E	14s	39.00um			
KNIM	4.22	63	eP	06	21.97	-3.8	Mrf=2.17 0.15 Mtf=0.19 0.05										SP	03	18.50	
			eS	07	07.19		Principal Axes:							KHT	28.11	284	eP	03	10.20	1.6
PLRM	4.27	44	eP	06	22.39	-4.1	T Vol= 2.73 Plg=61 Azm=256							BDT	28.18	290	eP	03	10.50	1.3
TTA	4.31	356	ePd	06	25.15	-1.9	N -0.16 1 348								1.0s		55.20nm			5.3mb
SDN	4.36	223	eP	06	25.83	-1.8	P -2.57 29 79							PSI	28.36	259	ePd	03	14.50	3.6X
KNK	4.42	48	iPc	06	24.24	-4.2	Best Double Couple:Mo=2.7*10**18							TIA	28.43	344	Pd	03	09.70	-1.5
GHO	4.47	43	eP	06	25.30	-3.9	NP1:Strike=173 Dip=16 Slip= 95								8.0s		2800.00nm			6.1mb X
CUT	4.52	31	ePc	06	26.49	-3.2	NP2: 348 74 88								Z	20s	27.40um			5.8Msz
SML	4.70	45	eP	06	27.87	-4.5									N	12s	17.30um	</		

24d 05h

RAB	28.56	116	iPd	03	12.00	-0.6	SHL	36.96	301	iP	04	23.50	-2.4X	ePP	09	43.00	
			iS	08	02.00					iS	10	10.00		ePPP	10	33.00	
CHG	28.63	293	eP	03	11.90	-1.4	GTA	38.65	326	eP	04	39.60	-0.3	esP	14	03.00	
	1.0s		17.00nm					0.8s		20.00nm			4.9mb	iS	15	16.50	
			eS	08	08.00		Z	16s		32.60um			6.2MsZ	iScS	16	49.00	
MAT	29.29	19	eP	03	19.00	-0.1	E	15s		26.90um				eSS	19	03.00	
	1.1s		32.91nm							S	10	36.00		QUE	59.44	300	eP
	Z	20s	8.51um							ScS	14	52.00			1.0s	30.00nm	5.4mb
			eS	07	44.00									eS	15	31.70	
XAN	29.79	329	eP	03	20.30	-3.3X	OLP	39.28	155	eP	04	44.00	-1.0	eScS	17	09.00	
	N	14s	20.80um							i	04	50.00	20km				
	E	15s	19.40um				COOL	40.06	187	eP	04	51.00	-0.5	THZ	65.91	144	eP
			S	08	19.00					i	04	56.80	20km	LTZ	66.19	145	eP
DL2	30.09	352	iPc	03	26.00	-0.1	BAL	40.58	193	eP	04	56.00	0.2	KHZ	66.69	144	eP
	1.5s		300.00nm				RMO	41.29	149	eP	05	01.00	-0.6		0.8s		98.00nm
	Z	18s	20.80um							i	05	05.20	14km	WEL	66.72	142	eP
	N	14s	18.70um				MUN	42.01	193	eP	05	07.40	-0.1	ANM	72.46	25	eP
	E	11s	9.00um							i	05	09.00	5km	SDN	72.82	35	P
			S	08	20.00					e	11	30.00			Z	20s	12.50um
CD2	30.53	319	eP	03	28.00	-2.2	GUN	42.79	302	P	05	13.06	-1.4	SDN	72.82	35	eP
	Z	18s	52.70um				PKI	43.09	301	P	05	14.90	-1.9	HON	73.09	70	P
	N	13s	35.80um					0.8s		93.00nm			5.6mb	DHR	74.08	295	ePc
			PP	04	27.00		STK	43.10	161	iPd	05	15.80	-0.6	SVW	76.16	29	eP
			S	08	27.00			0.7s		14.00nm			4.8mb	TTA	76.20	27	eP
TIY	31.33	338	eP	03	36.60	-0.6				i	05	22.30	22km	PAF	76.22	214	eP
	Z	16s	20.10um							i	05	30.00					ePP
	E	13s	17.50um							i	06	19.10					eS
			S	08	42.50		KKN	43.26	301	P	05	16.28	-1.8	TAB	76.96	307	eP
OIS	32.02	157	iPd	03	41.80	-1.5	DMN	43.36	301	P	05	18.00	-0.9	RYD	77.35	293	eP
			i	03	57.30	63kmX	RKG	43.86	192	eP	05	27.10	4.6X	RSO	77.51	30	ePc
			i	06	21.00			0.6s		168.00nm			6.0mb				i
			i	08	03.00		GKN	43.87	301	P	05	21.00	-2.0	IMA	77.56	24	eP
			i	08	45.00		BRS	44.14	146	iPd	05	23.50	-1.4		1.2s		50.20nm
			i	08	55.40					e(PP)	06	13.00	367kmX	SLKM	78.76	30	eP
			i	14	24.00					i	06	36.80					i
BJI	32.28	345	eP	03	43.50	-1.8				i	10	27.00		PMR	79.32	29	eP
	2.0s		800.00nm							i(S)	12	06.00			1.3s		132.60nm
	N	16s	20.30um				ADE	45.21	166	eP	05	33.30	-0.2	FBA	79.95	26	eP
			eS	08	48.00			0.8s		373.13nm			6.4mb	TOA	80.71	28	eP
SNY	32.77	356	Pc	03	47.80	-1.8	COO	46.21	149	eP	05	45.00	3.6X				i
	1.2s		100.00nm							e	07	37.00	643kmX	BALM	82.61	29	e(P)
	Z	17s	24.00um				HYB	47.53	285	eP	05	51.50	-0.6				i
	N	17s	17.90um					1.0s		100.00nm			5.8mb	OBN	82.74	325	iP
	E	16s	20.40um							eS	12	51.00			Z	18s	12.00um
			PcP	06	34.00		BFD	48.30	163	iPc	05	57.80	0.1		N	18s	7.20um
			iS	09	04.00					i	06	04.00	21km		E	18s	7.50um
ASPA	33.25	168	eP	03	52.20	-1.8				e	11	10.00					iPcP
	0.6s		50.50nm				WMO	48.47	322	P	05	57.30	-1.8				e
	Z	21s	14.20um					Z	16s	22.10um			6.2MsZ				e
LZH	34.05	326	eP	03	59.00	-2.0		N	18s	47.30um							ePPP
	2.0s		71.00nm					E	15s	15.60um							iS
	Z	22s	30.50um							PP	07	47.40					ePS
	N	20s	60.00um							PcS	11	24.00					eSS
	E	20s	42.90um							S	12	57.00					ePKKP
			PP	05	17.00					ScS	15	50.00					iSSS
HHC	34.42	339	iPc	04	04.50	0.4	GBA	48.49	280	Pc	05	58.20	-1.3				iSSSS
	1.2s		300.00nm					0.7s		48.80nm			5.7mb	KVT	84.65	311	eP
	Z	14s	21.60um				KOD	48.55	276	eP	06	01.20	0.8				LQ
	N	14s	10.10um							eS	13	08.00		KEV	84.94	340	eP
	E	13s	12.80um				CNB	49.02	155	eP	06	03.60	0.2		Z	18s	30.70nm
			S	09	34.00					e	06	09.70	20km				5.6mb
CN2	34.65	358	Pc	04	06.00	0.2				e	08	38.00					6.2MsZ
	1.0s		100.00nm				TOO	49.58	160	eP	06	09.00	1.4				i
	N	15s	17.00um							i	06	13.70	16km	INK	85.25	22	eP
	E	15s	14.70um				DZM	49.72	129	iPc	06	08.00	-1.0		1.2s		124.00nm
			eS	09	28.00		NDI	50.36	300	iPc	06	11.00	-2.8X	SOD	85.59	338	iP
CTA	34.74	147	iPd	04	08.30	1.4		0.6s		33.33nm			5.5mb	KBS	85.82	350	eP
	1.2s		126.56nm				POO	52.07	286	eP	06	25.00	-1.9	BHL	85.92	304	Pc
			iS	09	10.00					iS	13	54.00					S
BTO	34.76	337	P	04	07.00	0.0	YAK	52.92	2	eP	06	30.60	-1.9	HR1	85.94	303	eP
	8.0s		2800.00nm							pP	06	52.00	86kmX	CRZF	86.24	222	ePc
	N	13s	12.20um							ePcP	07	32.00					ePP
	E	13s	16.90um							ePP	08	33.00					eS
			ePP	05	24.00					ePPP	09	31.00					eSS
			iS	09	36.00					iS	13	57.00		ATZ	86.39	302	eP
WARB	35.01	180	eP	04	09.00	-0.2				iPS	14	24.00		AAE	86.63	279	eP
	0.4s		40.00nm							iScS	16	21.00		PPT	86.74	108	eP
			eS	09	12.00					eSS	17	19.00			1.2s		80.00nm
MDJ	35.53	4	Pd	04	12.50	-0.9	KSH	54.37	312	P	06	44.00	0.2	SIT	86.78	33	P
	1.5s		600.00nm					E	15s	34.50um				KAF	86.92	332	eP
	Z	17s	10.80um				TAU	55.01	162	P	06	40.00	-8.1X	MBH	87.18	300	eP
	N	14s	14.90um							e	14	32.00		BBTK	87.31	310	iP
	E	14s	11.40um							e	07	12.40	3.5X	PMO	87.88	105	iP
			S	09	45.00		SMY	57.94	32	eP	07	10.20	-2.6X		1.2s		45.00nm
SAP	36.22	18	eP	04	23.00	3.8X	GAR	58.43	310	iP	08	08.00		NUR	88.09	331	eP
MEKA	36.33	192	iPc	04	19.60	-0.7				iPcP	08	08.00		NUR	88.09	331	iP

										Z 20s										5.00um										6.0Msz										DEPTH = 23.7km (7 depth phases)									
																				ePP 15 20.00										5.8mb (72 obs.) 6.2Msz (9 obs.)																			
																				eSKS 21 52.00										SOUTH OF PANAMA (83)																			
																				eS 22 48.00										Ms 5.9 (BRK).																			
																				eSP 24 16.00																													
										SLR 101.44 246 iPdfff11 12.60 4.4X										CUMC 2.44 130 iPc 13 48.46 -1.1																													
										1.3s 28.85nm 5.7mb										COTA 2.61 147 iPd 13 50.60 -1.3																													
										GDH 101.90 0 ePdfff11 18.00 9.0X										PSO 2.77 119 iPc 13 45.00 -9.0																													
										CMB 101.97 48 ePdfff11 14.00 3.8X										YANA 2.89 156 iPd 13 54.80 -1.0																													
										SES 102.54 34 ePdfff11 15.00 2.6X										OUR 2.96 156 iP+ 13 55.90 -0.8																													
										DOU 102.65 326 Pdiff 11 19.00 6.2X										OTO 2.99 156 Pd 13 56.60 -0.6																													
										Z 18s 4.30um 6.0Msz										CAYA 3.01 144 iP+ 13 57.70 0.1																													
										SKS 21 58.00										ANCC 3.03 71 iPc 13 56.23 -1.2																													
										S 22 59.00										HOOC 3.24 73 iPc 13 59.11 -1.5																													
										FRI 102.86 49 ePdfff11 19.50 5.5X										QUIL 3.38 166 P 14 01.60 -1.1																													
										LRM 104.02 38 ePdfff11 24.20 4.8X										PURC 3.39 94 iPc 14 03.35 0.4																													
										FFC 104.53 27 ePdfff11 24.00 2.9X										SILC 3.41 87 iPc 14 02.79 -0.3																													
										1.3s 13.00nm 5.7mb										CLMC 3.45 67 iPc 14 01.60 -1.9																													
										MWC 105.14 51 ePKP 15 29.00 -10.2X										ANGL 3.65 143 P 13 51.30 -15.3X																													
										GSC 105.67 50 ePKP 15 24.00 -16.0X										BUGC 3.73 69 iPc 14 05.68 -1.8																													
										FRB 106.50 7 ePKP 15 44.00 3.5X										HOBC 4.03 63 iPc 14 09.48 -2.2																													
										NVL 106.57 198 PKP 16 00.00 19.5X										BOG 6.04 70 iPc 14 41.00 0.7																													
										e 22 02.00										PS 15 54.00																													
										e 23 33.00										UPA 6.40 2 ePc 14 43.40 -1.7																													
										TPC 106.72 50 ePKP 15 46.00 4.0X										FUQ 6.66 64 eP 14 45.50 -3.6X																													
										RSSD 109.97 36 ePKPc 15 50.00 1.9										BMG 8.03 56 eP 15 08.00 0.0																													
										Z 20s 3.16um 5.9Msz										SDV 11.04 55 eP 15 49.00 -0.6																													
										GOL 111.64 41 ePKPc 15 50.80 -0.6										TOV 12.23 54 eP 16 04.50 -1.2																													
										Z 20s 7.10um 6.2Msz										CEOS 13.05 60 iP 16 11.50 -5.1X																													
										e 15 54.20										MORO 14.04 53 eP 16 23.50 -6.2X																													
										GLD 111.70 41 PKP 16 00.00 8.6X										OLLA 14.85 59 iP 16 33.60 -6.7X																													
										Z 20s 7.00um 6.2Msz										TPX 17.42 316 (P) 17 15.00 2.0																													
										ANMO 113.40 46 ePKPc 15 54.90 0.1										ARE 20.57 157 eP 17 52.00 1.9																													
										Z 18s 4.64um 6.1Msz										OXX 22.07 312 (P) 18 08.00 2.8X																													
										e 15 57.90										BBL 22.15 53 eP 18 05.00 -0.7																													
										ALQ 113.40 46 ePKP 15 54.80 -0.1										PAG 22.27 52 eP 18 06.00 -1.0																													
										Z 18s 5.84um 6.2Msz										SEG 22.62 51 eP 18 10.00 -0.4																													
										SCH 115.38 9 ePKP 15 59.00 1.2										BPA 22.73 50 eP 18 05.00 -6.5X																													
										IFR 117.71 315 iPKP 16 10.00 6.9X										DEG 22.92 52 eP 18 12.00 -1.4																													
										TUL 119.98 39 ePKPd 16 06.30 -0.8										IISM 23.77 315 iP 18 24.70 3.2X																													
										0.8s 11.10nm										IIT 24.46 313 (P) 18 35.50 6.9X																													
										Z 21s 0.80um 5.3Msz										PPM 24.72 313 (P) 18 35.00 3.6X																													
										LR 27 20.60										III 24.92 310 (P) 18 38.50 5.5X																													
										FVM 121.76 34 ePKP 16 11.00 0.6										SIV 26.08 136 P 18 44.40 0.8																													
										1.0s 21.00nm										MRX 27.02 311 (P) 18 58.70 6.5X																													
										RSCP 126.15 33 PKP 16 19.00 -0.1X										SGS 30.50 359 P 19 23.40 0.1																													
										Z 20s 3.39um 6.0Msz										PRM 31.47 356 P 19 31.60 -0.4																													
										PNJ 126.70 20 PKP 16 22.00 2.1										JSC 31.61 358 P 19 32.80 -0.3																													
										PPM 127.28 58 (PKP) 16 26.30 4.0X										LHS 31.79 358 P 19 34.00 -0.7																													
										CBN 127.89 24 ePKP 16 22.00 -0.2										TKL 33.16 354 P 19 45.70 -1.0																													
										KIC 129.28 286 PKP 16 26.18 0.6										RSCP 33.33 351 P 19 46.80 -1.4																													
										TIC 129.46 286 PKP 16 27.16 1.2										BLA 34.51 359 P 19 57.90 -0.4																													
										LIC 129.59 286 PKP 16 26.56 0.4										1.2s 75.76nm 5.5mb																													
										LNV 150.11 149 ePKP 17 09.00 7.0X										CVL 35.29 2 P 20 04.50 -0.5																													
										SJJ 150.17 25 ePKP 17 05.00 2.4										ELC 35.66 347 P 20 05.80 -2.3																													
										CPD 150.33 25 PKP 17 03.00 0.2										TUL 36.38 338 iPd 20 12.50 -1.7																													
										LCCH 150.40 148 ePKP 17 11.50 9.0X										0.8s 84.90nm 5.7mb																													
										TACH 150.59 149 ePKP 17 10.00 7.2X										Z 21s 6.13um 5.4Msz																													
										PCH 150.83 149 ePKP 17 10.50 7.2X										e 20 26.60 54kmX																													
										SAN 150.89 149 ePKP 17 10.00 6.7X										e 22 37.10																													
										ROCH 151.08 148 ePKP 17 12.00 8.1X										LR 53 58.40																													
										PEL 151.12 149 iPKPc 17 10.00 6.3X										MEO 36.56 333 iPd 20 14.80 -1.0																													
										0.8s 156.72nm										FVM 36.61 346 iP 20 14.10 -2.0																													
										MDZ 152.24 151 e(PKP) 17 15.30 9.9X										1.0s 135.00nm 5.8mb																													
										CUM 157.79 29 ePKP 17 13.00 -0.2										PPD 36.99 133 eP 20 18.70 -0.9																													
										ANT 158.05 134 e(PKP) 17 05.50 -7.7X										LVNJ 38.36 6 P 20 31.80 1.0																													
										LPB 163.74 119 PKP 17 20.00 0.2										PNJ 38.52 7 iP 20 32.80 0.7																													
										1.0s 190.00nm										CLE 38.81 358 iP 20 33.50 -1.0																													
										i 18 08.50										ALQ 40.69 325 iPd 20 51.30 0.8																													
										S 22 08.00										0.9s 127.73nm 5.7mb																													
										LR 27 44.00										VAO 40.81 130 eP 20 50.50 -1.0																													
										ZOBO 163.82 118 PKP 17 23.50 3.4X										BNH 42.54 9 P 21 06.40 1.1																													
										i 18 04.00										EMM 43.39 13 P 21 13.50 1.3																													
										S 22 04.00										CAI 43.48 102 iPd 21 12.20 -1.2																													
										LR 27 32.00										MIM 43.56 11 P 21 14.60 1.1																													
										CCH 164.97 125 PKP 17 23.30 2.5X										GOL 43.70 331 P 21 15.50 0.4																													
										PDCR 165.68 255 ePKP 17 22.30 1.2										1.5s 149.37nm 5.6mb																													
										e 20 08.40										GLA 44.72 317 eP 21 24.00 0.8																													
										e 22 54.90										e 23 05.00 556kmX																													
										PPD 166.95 188 ePKP 17 23.30 1.4										CBM 45.36 11 P 21 28.60 0.6																													
										e 18 31.30										BAR 45.80 315 eP 21 32.00 0.3																													
										e 20 18.70										e 23 08.00 513kmX																													
										SIV 169.71 133 PKP 17 26.40 2.6X										TPC 46.16 317 eP 21 35.00 0.4																													
										S.D. = 1.2 on 132 of 206 obs.										e 23 10.00 504kmX																													
										APR 24, 1991 05h 13m 09.83±0.15s										PLM 46.30 316 iP 21 36.00 0.1																													
										2.541 N ± 2.9km 79.747 W ± 2.5km										e 23 11.00 504kmX																													
																				MSU 46.46 325 P 21 37.60 0.5																													

24d 05h

RSSD	46.66	336	P	21	39.20	0.6	GIBL	75.52	53	eP	24	57.50	3.1X	SNF	84.25	40	iPc	25	41.83	1.0
PEC	46.80	316	P	21	40.00	0.3	PLAT	75.58	53	eP	24	55.50	0.7	UCC	84.31	39	P	25	41.00	-0.1
RVR	47.01	316	eP	21	41.00	-0.2	IFR	75.78	56	iPd	24	57.50	1.3	DOU	84.43	40	Pd	25	42.30	0.6
GSC	47.35	318	eP	21	44.00	-0.1	LIJA	75.96	53	eP	24	58.00	1.0		1.1s	123.10nm			6.0mb	
			e	23	14.00	465kmX	AKU	76.32	22	eP	24	56.70	-1.6	CDR	85.01	47	iPd	25	45.50	0.7
MWC	47.61	316	eP	21	46.00	-0.2		1.1s	86.00nm			5.7mb	VITF	85.27	42	P	25	46.67	0.7	
SBB	47.70	317	eP	21	46.00	-0.8	KLU	76.57	333	P	25	00.00	0.1	ENN	85.30	39	iPd	25	46.60	0.5
			e	23	14.00	451kmX	MAL	76.74	53	iPd	25	02.40	1.2		1.2s	225.00nm			6.3mb	
DUG	47.96	326	P	21	49.40	0.5	TOA	76.89	334	eP	25	02.10	0.4			e	25	56.50	31km	
BW06	48.08	331	P	21	49.40	-0.5	ECB	77.63	37	iPc	25	06.10	0.3	MEM	85.35	40	iPd	25	47.24	0.9
CLC	48.18	318	eP	21	50.00	-0.5		1.1s	145.00nm			5.9mb	WLF	85.42	41	iPd	25	47.74	1.1	
			e	23	17.00	443kmX	ECP	77.84	37	iPc	25	07.30	0.4	LRG	85.44	47	eP	25	47.10	0.2
ISA	48.68	317	eP	21	54.00	-0.4		1.0s	162.00nm			6.0mb		Z	19s	10.75um			6.3Msz	
			e	23	19.00	429kmX	ETA	78.04	37	iPc	25	08.40	0.4	HAU	85.51	42	eP	25	47.30	0.1
SYP	49.11	315	eP	21	58.00	0.2		1.1s	102.00nm			5.8mb			1.4s	91.50nm			5.8mb	
			e	23	21.00	415kmX	PMR	78.06	333	eP	25	07.90	-0.1		Z	18s	9.00um			6.2Msz
TNP	49.25	321	P	21	59.00	0.1	FHUE	78.30	52	eP	25	10.60	0.6	LMR	85.54	47	eP	25	47.70	0.2
	0.9s	21.48nm				5.2mb	FBA	78.51	336	eP	25	10.10	-0.4		1.5s	167.15nm			6.0mb	
BCH	49.53	316	P	22	01.00	0.8	BST	78.60	41	P	25	11.59	0.3	FRF	85.65	47	eP	25	48.30	0.3
PTI	49.58	329	P	22	00.80	-0.5	EAB	79.79	33	ePd	25	17.00	-0.5		1.2s	124.95nm			6.0mb	
IMW	49.59	331	P	22	00.80	7.3X	PDB	80.01	330	P	25	18.00	-0.6	RSL	85.66	45	P	25	49.21	1.0
BONR	49.87	320	P	22	04.40	0.6	ELO	80.19	33	ePd	25	19.60	-0.1	BNI	85.68	45	P	25	50.90	2.6X
PHAM	50.09	316	P	22	05.00	0.6	EBH	80.26	33	ePd	25	19.90	-0.2	LPL	85.73	45	eP	25	49.40	0.7
FR1	50.25	318	eP	22	05.80	-1.3		0.9s	75.00nm			5.7mb			1.3s	68.60nm			5.7mb	
			ePcP	23	24.00		ESK	80.27	34	ePd	25	20.00	-0.1	LPG	85.74	45	eP	25	49.50	0.7
PRI	50.44	317	eP	22	07.80	-0.1		1.0s	80.00nm			5.7mb			1.4s	106.75nm			5.9mb	
			ePcP	23	26.00		EKA	80.30	34	Pd	25	19.90	-0.4	RRL	85.76	45	P	25	49.55	0.7
LLA	50.88	317	ePd	22	10.50	-0.6		1.2s	127.80nm			5.8mb	BSF	85.80	42	P	25	49.08	0.2	
			ePcP	23	27.50		EDI	80.38	34	eP	25	20.50	-0.2	WIT	85.82	37	eP	25	50.00	1.4
PRS	51.02	316	eP	22	12.00	-0.2	EBL	80.43	34	ePd	25	20.70	-0.3	LOMF	85.82	43	P	25	49.47	0.6
			ePcP	23	27.90		EGRA	80.47	48	eP	25	24.90	3.5X	ANM	85.83	334	eP	25	49.20	0.7
CMB	51.27	319	ePd	22	13.50	-0.6	LPF	80.56	42	eP	25	21.50	-0.3	EMS	85.88	44	ePd	25	50.40	1.1
			ePcP	23	28.50			1.2s	119.00nm			5.8mb	WTS	85.89	38	iPd	25	50.00	1.0	
			eScP	27	40.10		EDU	80.58	33	ePd	25	21.90	0.2		1.0s	359.00nm			6.6mb	
ARN	51.67	317	P	22	17.60	0.5		1.0s	171.00nm			6.0mb			e	25	55.50	17km		
LRM	51.73	331	ePd	22	17.20	-0.6	BTH	80.63	47	iPc	25	23.30	1.0X			e	26	03.00		
MHC	51.74	317	ePd	22	18.20	0.4			iP	25	30.40	23km	PZZ	85.98	46	P	25	49.65	-0.2	
			ePcP	23	30.90				PcP	25	37.00		LSD	86.03	45	P	25	50.88	0.7	
GCC	51.81	317	ePd	22	18.00	-0.2	ESY	80.70	34	ePd	25	22.30	-0.1	MOF	86.03	42	P	25	50.07	0.1
BKS	52.42	318	eP	22	23.00	0.2		0.9s	115.00nm			5.9mb	ECH	86.05	42	P	25	50.58	0.6	
	1.0s	39.00nm				5.3mb	GRR	80.73	42	eP	25	22.60	-0.1	RSP	86.10	45	P	25	51.50	1.1
Z	20s	14.00um				6.0Msz		1.1s	146.50nm			5.9mb	BNS	86.10	39	iPd	25	51.20	1.1	
N	20s	4.30um					SVW	80.97	332	eP	25	23.30	-0.5		1.3s	255.00nm			6.3mb	
E	20s	11.00um					MFF	81.01	43	eP	25	24.30	0.1	Z	18s	11.30um			6.3Msz	
			ePcP	23	33.70			1.3s	115.55nm			5.7mb	CDF	86.13	42	P	25	50.84	0.4	
			eP	24	04.00		FLN	81.02	41	eP	25	24.40	0.2	STV	86.14	46	P	25	50.27	-0.3
			eS	29	22.00			1.2s	175.55nm			6.0mb	WLS	86.19	42	P	25	51.09	0.4	
			eLO	40	04.00			Z	18s	17.75um		6.5Msz	DIX	86.21	44	ePd	25	52.40	1.3	
			ELR	43	10.00		EPF	81.02	47	eP	25	24.90	0.4	ENR	86.21	46	P	25	49.86	-1.0
BRK	52.43	318	eP	22	22.70	-0.1		1.4s	143.75nm			5.8mb	SBF	86.22	46	eP	25	51.00	0.1	
			ePcP	23	33.20		DAG	81.11	12	iPc	25	23.30	-0.9		1.2s	113.05nm			6.0mb	
ORV	52.83	320	ePd	22	25.80	0.0		1.0s	70.00nm			5.6mb	BBS	86.28	43	P	25	51.51	0.4	
			ePcP	23	34.00		IMA	81.20	337	eP	25	25.00	0.0	ABH	86.33	40	eP	25	52.20	0.9
SCH	53.17	9	ePd	22	26.80	-1.3		1.3s	55.70nm			5.4mb	GW	86.37	41	P	25	52.37	0.9	
	1.2s	206.00nm				6.0mb	LDF	81.23	41	eP	25	25.40	0.0	ROB	86.53	46	P	25	51.81	-0.6
LBFM	54.08	321	P	22	34.60	-0.6		1.1s	136.75nm			5.9mb	MMK	86.60	44	ePd	25	54.60	1.7	
SES	54.53	336	ePd	22	37.70	-0.5	LFF	81.47	45	eP	25	26.80	0.1	FEL	86.63	42	P	25	53.14	0.2
	1.5s	230.00nm				6.0mb		1.3s	137.20nm			5.8mb	FIN	86.78	46	P	25	52.22	-1.4	
			pP	22	46.00	27km	TTA	81.51	333	eP	25	25.90	-0.7	ZLA	86.88	43	iPd	25	54.80	0.7
FFC	55.09	344	iPd	22	40.20	-1.9	LPO	81.77	45	eP	25	28.20	0.0	TNS	86.91	40	ePd	25	55.10	1.0
	1.3s	70.00nm				5.5mb		1.2s	116.05nm			5.8mb	SLE	86.95	42	ePd	25	55.00	0.6	
NEW	55.72	331	P	22	45.80	-1.0	RJF	82.05	45	eP	25	29.50	-0.2	PCP	87.01	46	P	25	54.57	-0.2
DPW	55.99	330	P	22	48.00	-0.8		1.4s	135.05nm			5.8mb	MUD	87.30	34	iPd	25	56.80	1.1	
LON	57.18	327	P	22	56.30	-1.1		Z	18s	7.25um		6.1Msz		0.8s	60.00nm			5.9mb		
EDM	57.62	337	iPd	22	58.40	-1.9	LSF	82.13	44	eP	25	29.90	-0.2	LLS	87.30	43	ePd	25	57.60	1.3
PNT	57.65	330	ePd	23	00.00	-0.6	CAF	82.41	45	eP	25	31.60	0.0	VDL	87.63	44	ePd	25	59.10	1.2
GMW	58.19	327	P	23	03.20	-1.2		1.4s	117.65nm			5.8mb	BOB	87.66	45	P	25	58.00	0.1	
FRB	61.62	6	ePd	23	25.00	-2.6X	TCF	82.61	44	eP	25	32.20	-0.4	KBS	87.85	11	eP	25	59.00	0.9
	1.0s	74.00nm				5.8mb		1.3s	66.80nm			5.6mb	OSS	88.09	44	ePd	26	01.20	1.1	
YKA	65.19	343	eP	23	48.00	-3.1X	SDN	82.65	325	eP	25	32.90	0.4	NB2	88.26	29	P	26	00.80	0.4
	0.8s	34.00nm				5.5mb	MAF	82.85	44	eP	25	33.60	-0.2		0.9s	68.20nm			6.0mb	
GDH	68.86	10	ePd	24	18.00	3.8X		1.3s	81.25nm			5.7mb	BDI	88.50	46	Pd	26	01.50	-0.4	
	0.9s	*****nm				8.6mb X	BGF	83.06	44	eP	25	34.80	-0.1	OGA	88.69	43	eP	26	04.00	1.0
PAE	71.63	251	iP	24	22.90	-9.1X		1.4s	143.75nm			5.9mb		1.3s	67.00nm			5.8mb		
	1.2s	55.00nm				5.5mb	AVF	83.43	43	eP	25	36.30	-0.5	GRF	88.71	41	ePd	26	04.20	1.5
AVE	73.86	56	iPd	24	46.00	1.1		1.3s	79.40nm			5.7mb		1.2s	65.00nm			5.8mb		
		i	26	30.00	480kmX		SSF	83.55	43	eP	25	36.80	-0.6	SOTA	88.80	43	iPd	26	04.20	0.8
PTO	74.17	48	iPd	24	46.80	0.3		1.4s	84.95nm			5.7mb		1.3s	88.80nm			5.9mb		
LIC	74.54	84	Pd	24	48.84	-0.3	SMF	83.75	44	eP	25	38.00								

HFS	89.54 0.8s	30 eP 29.90nm	26 06.00 5.6mb	-0.4
		e	26 13.30 23km	
CLL	89.76 1.6s	39 iP 72.00nm	26 08.40 5.7mb	0.8
WET	89.82 1.6s	41 iPd 120.00nm	26 09.10 5.9mb	1.1
Z	17s	6.00um	6.1MsZ	
KBA	90.27 1.6s	43 iPd 86.50nm	26 10.90 5.8mb	0.6
		e	26 32.00 77kmX	
KHC	90.28 1.2s	41 iPd 5.00nm	26 11.20 4.6mb X	1.0
Z	16s	7.20um	6.2MsZ	
N	16s	2.50um		
E	16s	5.70um		
BRG	90.38 1.4s	39 iP 36.00nm	26 29.00 5.4mb	63kmX
		i	26 19.00 24km	
TRO	90.66 90.84	20 eP 40 Pd	26 11.50 26 14.00	0.1
PRU	1.7s	39.10nm	5.4mb	
Z	17s	10.10um	6.3MsZ	
N	17s	3.20um		
E	17s	6.00um		
SDI	90.99 91.53	48 P 30 iP	26 14.00 26 15.00	0.4
UPP	91.53	30 iP	26 15.00	-0.5
KSP	91.87	39 iPd	26 18.50	1.1
SPA	92.52 0.9s	180 iPd 13.18nm	26 19.20 5.4mb	-1.1
ZST	92.69	42 iP	26 21.70	0.5
NVL	92.91	161 iPc e	26 22.00 30 54.00	0.3
TDS	93.08	50 P	26 24.20	1.0
KEV	93.38 0.8s	20 iP 23.50nm	26 13.80 -10.2X	
SRO	93.55	42 iP	26 26.20	1.1
SOD	93.92	22 iP	26 26.10	-0.4
SPC	94.62	40 eP	26 32.00	1.7
NUR	94.86 0.7s	29 iP 41.40nm	26 30.70 6.0mb	-0.2
Z	18s	12.40um	6.4MsZ	
KAF	95.22 1.0s	27 iP 28.80nm	26 32.10 5.7mb	-0.5
		esP	26 33.30	
OBN	102.64 1.5s	32 iPd *****nm	27 06.00 9.0mb X	-0.1
Z	18s	0.60um	5.2MsZ	
MAIO	125.83	41 ePKP	32 11.00	-1.0
GAR	130.32	31 ePKP	32 19.90	-0.6
WMQ	132.49	12 PKP	32 24.00	-0.4
QUE	134.50	42 ePKP	32 25.40	-3.4X
BJI	135.18	343 ePKP	32 28.00	-1.5
HHC	135.60	348 PKP	32 30.60	0.2
TIY	138.39	345 ePKP	32 34.60	-1.1
SSE	141.06	331 ePKP	32 36.50	-4.1X
ASPA	141.27 1.7s	234 ePKP 9.70nm	32 33.10 -8.2X	
LZH	141.43	355 PKPc	32 34.00	-7.4X
NDI	141.88	34 ePKP	32 37.00	-5.2X
XAN	142.71	348 PKPc	32 37.00	-6.5X
WHN	144.46	339 ePKP	32 44.00	-2.5X
RKG	144.95	205 ePKP	32 44.40	-2.9X
WARB	145.43	225 ePKP	32 47.00	-1.3
GKN	146.12	25 PKP	32 49.06	-0.6
CD2	146.57	355 PKP	32 50.00	-0.1
KKN	146.58	25 PKP	32 49.86	-0.6
POD	146.62 1.2s	50 iPKPc 93.75nm	32 50.20 -0.3	
DMN	146.66	25 PKP	32 49.94	-0.7
GUN	146.71	24 PKP	32 50.40	-0.4
LSA	146.78	15 iPKPc	32 51.50	0.5
PKI	146.82 1.1s	25 PKP 228.00nm	32 49.94 -1.1	
MUN	147.09	205 ePKP	32 50.50	-0.4
QZH	147.39	328 ePKP	32 50.00	-1.5
GYA	150.51	348 PKP	32 56.60	0.1
HYB	150.82 1.0s	46 ePKP 110.00nm	32 56.60 -0.4	
GBA	152.26 0.4s	54 PKP 1.50nm	33 01.00 1.8	
KMI	152.40	355 ePKP	33 00.00	0.5
BAG	152.47	314 ePKP	33 03.50	3.8X
KOD	154.00	60 ePKP	33 03.30	1.2

S.D. = 0.9 on 252 of 284 obs.				
* APR 24, 1991 05h 50m 44.47±1.11s				
2.658 N ±12.3km 79.804 W ±10.8km				
DEPTH = 10.0km (geophysicist)				
4.0mb (2 obs.)				
SOUTH OF PANAMA (83)				
CUMC	2.56	131 ePc	51 25.36	-1.9
ANCC	3.05	74 iPc	51 33.50	-0.2
HOQC	3.27	76 iPc	51 36.39	-0.6
PURC	3.45	95 eP	51 41.33	1.4
CLMC	3.46	69 eP	51 39.12	-0.5
SILC	3.46	89 ePc	51 40.88	1.0
BUGC	3.75	71 ePd	51 43.57	-0.2
UPA	6.29	2 eP	52 05.00	-14.6X
		S	52 49.00	
ZOBO	22.07	149 P	55 43.00	0.9
SIV	26.20	136 P	56 26.60	5.3X
ALO	40.56	325 eP	58 28.70	2.7X
	0.9s	3.15nm	4.0mb	
YKA	65.06	343 eP	01 26.20	-0.8
	0.6s	0.60nm	4.0mb	
INK	74.78	342 eP	02 27.00	0.7
S.D. = 1.2 on 10 of 13 obs.				
? APR 24, 1991 06h 15m 07.62±6.79s				
33.534 S ±34.4km 67.553 W ±52.1km				
DEPTH = 33.0km (normol)				
MENDOZA PROVINCE, ARGENTINA (139)				
MDZ	1.27	300 iP	15 35.60	6.4X
		iS	15 57.40	
CFA	2.01	343 iPc	15 41.00	1.1
		eS	16 08.40	
ZON	2.20	334 eP	15 43.00	0.4
		eS	16 11.00	
RTCB	2.30	332 eP	15 44.20	0.2
		eS	16 44.00	
RTLL	2.33	340 ePc	15 44.30	-0.2
		S	16 11.90	
RTBS	2.46	319 e(P)	15 46.30	0.0
PCH	2.47	267 eP	15 48.20	1.6
		iS	16 22.00	
JACH	2.69	288 eP	15 49.50	-0.1
		iS	16 25.50	
ROCH	2.95	280 eP	15 54.00	0.5
		iS	16 28.00	
LNV	3.24	261 eP	15 56.00	-1.3
		iS	16 33.00	
LCCH	3.36	270 eP	15 58.50	-0.5
		i	16 36.50	
RTRS	3.73	334 iPc	16 02.40	-1.8
S.D. = 1.1 on 11 of 12 obs.				
* APR 24, 1991 06h 50m 17.37±0.59s				
8.893 N ±10.9km 126.646 E ±16.9km				
DEPTH = 60.0km (geophysicist)				
4.2mb (4 obs.)				
MINDANAO, PHILIPPINE ISLANDS (259)				
SSE	22.67	348 P	55 18.50	3.9X
	1.0s	15.00nm	4.4mb	
NJ2	24.15	344 Pc	55 27.40	-1.6
WHN	24.41	334 eP	55 37.50	6.0X
CHTO	28.61	293 eP	56 21.00	10.7X
	1.0s	2.50nm		
WB2	29.64	165 iPc	56 19.00	-0.5
	0.8s	2.20nm	3.9mb	
		iP	56 29.60	38kmX
		i	57 02.90	
		i	57 42.10	
XAN	29.87	329 eP	56 22.10	0.6
TIY	31.44	338 eP	56 37.40	2.1
OIS	31.92	157 iPc	56 40.20	0.6
		i	56 52.30	
ASPA	33.13	168 eP	56 50.30	0.2
	1.1s	7.20nm	4.4mb	
HHC	34.53	340 P	57 04.00	1.9
MDJ	35.68	4 eP	57 10.20	-1.5
		PP	57 22.00	
GUN	42.79	302 P	58 12.46	1.0
PKI	43.09	301 P	58 12.12	-1.7
KKN	43.26	301 P	58 15.62	0.5
DMN	43.35	301 P	58 15.18	-0.7
GKN	43.87	301 P	58 19.18	-0.7
GBA	48.43	280 Pc	59 09.40	13.5X

0.8s 11.50nm				
YAK	53.07	2 eP	59 39.90	9.5X
		e	11 22.00	
GAR	58.46	310 eP	00 19.20	9.5X
INK	85.42	22 eP	02 49.00	-0.3
DAG	92.17	352 ePd	03 21.00	-0.2
YKA	94.86	24 eP	03 33.90	0.1
	1.0s	0.70nm	4.0mb	
S.D. = 1.2 on 16 of 22 obs.				
% APR 24, 1991 09h 02m 01.95±0.90s				
41.123 N ±15.6km 28.466 E ±11.5km				
DEPTH = 10.0km (geophysicist)				
TURKEY (366)				
MD 2.8 (ISK).				
CTT	0.04	312 iPg	02 03.80	-0.2
ISK	0.45	97 iPg	02 11.00	-0.2
DMK	0.88	323 iPg	02 18.90	0.1
		iSg	02 31.40	
HRT	0.96	108 ePg	02 20.10	-0.1
		eSg	02 35.10	
IZI	1.10	135 iPn	02 22.60	0.0
EYL	1.40	113 ePn	02 27.90	0.3
S.D. = 0.2 on 6 of 6 obs.				
APR 24, 1991 09h 13m 08.06±0.35s				
40.398 N ±3.9km 25.958 E ±3.3km				
DEPTH = 10.0km (geophysicist)				
AEGEAN SEA (365)				
MD 3.4 (ISK), 3.1 (ATH), 3.0 (THE).				
ALN	0.50	8 iPc	13 18.20	-0.1
		eS	13 25.40	
EZN	0.64	154 iPg	13 21.30	0.5
		eSg	13 30.00	
RDO	0.81	337 ePb	13 23.70	-0.1
PRK	1.18	168 ePn	13 31.00	1.0
		eSb	13 46.00	
KDZ	1.32	342 iPc	13 33.00	0.6
		iS	13 50.00	
EDC	1.46	91 iPn	13 35.00	0.6
OUR	1.51	268 eP	13 34.30	-0.8
RZN	1.60	324 eP	13 37.00	0.5
		iS	13 58.00	
DIM	1.68	349 eP	13 39.00	1.4
		iSg	14 00.00	
PAIG	1.81	256 eP	13 38.60	-0.9
KCT	1.84	94 iPn	13 39.10	-0.9
SRS	1.94	293 eP	13 41.90	0.6
		eS	14 08.04	
PLD	1.95	331 iP	13 45.00	3.5X
		iSg	14 11.00	
DMK	1.97	43 iPn	13 40.90	-0.9
CTT	2.02	67 iPn	13 42.10	-0.5
MMB	2.07	306 eP	13 43.00	-0.2
		iS	14 15.00	
DST	2.20	110 ePn	13 45.00	-0.2
KNT	2.45	289 ePd	13 48.16	-0.5
		eS	14 21.80	
PGB	2.54	329 eP	13 54.00	4.0X
		iS	14 27.00	
YLV	2.61	85 ePn	13 51.00	-0.1
IZI	2.69	90 ePn	13 52.10	-0.1
VTS	3.01	318 eP	14 06.00	9.2X
		iS	14 45.00	
S.D. = 0.7 on 19 of 22 obs.				
APR 24, 1991 09h 22m 54.93±0.23s				
52.042 N ±6.0km 157.052 E ±5.1km				
DEPTH = 33.0km (normol)				
4.8mb (33 obs.)				4.1MsZ (1 obs.)
KAMCHATKA (217)				
KUSJ	12.21	228 eP	25 48.60	-0.7
		eS	27 50.70	
ASAJ	12.46	236 eP	25 58.90	6.3X
HOQJ	13.43	229 eP	26 06.10	0.7
		eS	28 20.60	
MRRJ	14.47	235 eP	26 21.40	2.3
AOMJ	16.22	232 eP	26 42.40	0.6
OFUJ	16.81	226 P	26 53.00	3.9X
YAK	17.77	315 iPd	27 07.70	6.7X
		iP	27 21.00	
		ePPP	27 46.00	
		eS	30 24.00	

24d 09h

eScS 38 35.00				WRA 74.37 202 P 34 28.00 -3.0				OZH 17.62 335 Pc 10 58.00 -1.7			
YAMJ	18.28	227 eP	27 09.70 2.2		0.6s	3.60nm	4.5mb		0.8s	50.00nm	4.7mb
NIIJ	19.51	228 P	27 22.00 -0.2	KOD	75.60	268 eP	34 37.30 -1.3	Z	20s	8.10um	4.6Msz
MDJ	19.63	259 eP	27 23.50 0.1	FLN	77.76	345 eP	34 49.30 -0.5	HKC	17.89	319 iP	11 03.00 0.0
	1.2s	110.00nm	5.0mb	LDF	77.87	345 eP	34 50.40 0.0			eS	14 31.00
		PP	27 30.70	ASPA	78.06	202 eP	34 49.90 -1.8	PJG	18.31	74 eP	11 06.10 -2.1
KAKJ	19.86	224 eP	27 24.80 -1.0		1.3s	7.80nm	4.6mb	GUA	18.34	74 eP	11 06.50 -2.1
MAT	20.45	228 iPd	27 31.90 -0.2	GRR	78.19	345 eP	34 52.20 0.1	GZH	18.98	319 Pc	11 14.00 -2.4X
	1.0s	102.00nm	5.1mb	LOR	78.44	342 eP	34 53.20 -0.4	Z	18s	7.30um	
CHJJ	20.50	226 P	27 32.50 -0.1		0.7s	7.70nm	4.8mb	N	13s	4.70um	
MTMJ	20.60	229 P	27 33.80 0.1	Z	21s	0.10um	4.1Msz	E	14s	7.50um	
IJDJ	21.46	227 P	27 42.80 0.4	LPF	78.56	345 eP	34 54.30 0.1			S	14 48.00
TSRJ	22.31	231 eP	27 51.40 0.6		0.5s	5.85nm	4.9mb	OIZ	19.17	303 eP	11 15.00 -3.7X
ANM	22.97	42 P	28 01.50 4.5X	LBF	78.69	342 eP	34 54.40 -0.6		7.5s	1400.00nm	5.3mb X
WKYJ	23.57	229 eP	28 03.80 0.6		0.6s	2.70nm	4.4mb	N	15s	4.00um	
YONJ	23.82	234 eP	28 06.80 1.2	SSF	78.70	342 eP	34 54.20 -0.8	E	17s	4.30um	
TKSJ	24.50	232 eP	28 13.70 1.5		0.7s	5.50nm	4.7mb			S	14 44.00
TTA	26.84	48 P	28 35.40 1.5	AVF	78.99	342 eP	34 56.60 0.0	SSE	22.55	347 Pc	11 54.00 0.5
	1.0s	13.75nm	4.5mb		0.6s	9.00nm	4.9mb		1.5s	300.00nm	5.5mb
SVW	27.03	52 P	28 37.20 1.6	SMF	79.04	342 eP	34 56.90 0.1	Z	20s	6.90um	5.1Msz
PDB	27.82	55 P	28 44.00 1.3		0.7s	10.45nm	4.9mb	N	10s	2.70um	
IMA	28.06	41 P	28 47.00 2.0	LPL	79.52	339 eP	35 00.20 0.5	KUMJ	23.67	9 eP	12 05.60 1.1
	0.7s	9.45nm	4.6mb		0.6s	5.85nm	4.8mb	NJ2	24.04	343 Pc	12 08.40 0.4
FBA	30.48	44 P	29 08.20 1.8	LPG	79.53	339 eP	35 00.40 0.5		1.0s	300.00nm	5.8mb
	0.7s	10.17nm	4.7mb		0.6s	6.30nm	4.8mb	Z	20s	2.70um	4.7Msz
BALM	33.43	50 P	29 27.00 -5.4X	MAF	79.69	342 eP	35 00.60 0.2	E	10s	3.40um	
TIY	34.13	263 eP	29 40.00 1.3		0.6s	10.80nm	5.0mb			PP	12 20.50
INK	35.83	36 eP	29 55.00 2.3	TCF	79.69	343 eP	35 00.30 -0.1	WHN	24.33	333 Pc	12 12.00 1.2
XAN	38.69	262 eP	30 18.00 0.8		0.6s	2.70nm	4.4mb		1.7s	100.00nm	5.1mb
LZH	40.46	268 Pc	30 32.00 0.0	MFF	79.80	344 eP	35 01.00 0.1	Z	18s	3.00um	4.8Msz
	1.5s	68.00nm	5.2mb	LSF	79.85	343 eP	35 00.90 -0.3	N	11s	3.10um	
GTA	40.87	275 eP	30 36.40 1.2	RJF	80.77	343 eP	35 05.70 -0.4	E	11s	3.80um	
	1.4s	30.00nm	4.8mb		0.6s	5.40nm	4.7mb	KGM	24.35	255 eP	12 16.00 4.8X
CD2	44.00	263 P	31 01.70 0.9	CAF	81.03	342 eP	35 07.00 -0.6	KNA	24.72	175 eP	12 15.00 0.3
YKA	45.18	41 eP	31 10.90 1.0		0.7s	5.50nm	4.7mb	SHNJ	25.28	8 eP	12 19.40 -0.5
	0.7s	5.20nm	4.5mb	LFF	81.26	343 eP	35 08.10 -0.6	GVA	25.75	315 iPc	12 24.00 -0.6
GVA	45.45	256 P	31 12.80 0.3		0.7s	11.00nm	5.0mb		Z	16s	3.50um
WMO	45.55	288 P	31 14.50 1.3	LPO	81.43	343 eP	35 08.80 -0.8	N	15s	2.90um	5.0MszX
OIZ	49.32	246 P	31 43.80 1.1	EPF	83.18	343 eP	35 18.50 -0.3	E	15s	4.60um	
EDM	50.88	51 eP	31 55.00 0.7		S.D. = 1.0 on 86 of 91 obs.						
NEW	52.04	58 P	32 02.80 -0.4		* APR 24, 1991 09h 23m 18.77 ± 1.57s						
	0.9s	5.48nm	4.5mb		40.843 N ± 13.4km 29.625 E ± 10.8km						
SES	53.76	52 eP	32 16.00 0.1		DEPTH = 10.0km (geophysicist)						
FFC	55.08	44 ePd	32 26.30 0.8		TURKEY (366)						
	0.8s	8.00nm	4.8mb		MD 2.6 (ISK).						
ORV	55.26	68 ePc	32 26.40 -0.6	HRT	0.04	123 iPg	23 20.60 -0.3	IPM	25.94	262 ePc	12 29.10 2.8X
CHTO	55.86	256 iP	32 31.00 -0.5	GBZT	0.15	248 ePg	23 21.20 -1.0		1.0s	117.00nm	5.4mb
	1.0s	16.25nm	5.0mb			iSg	23 23.60	SNG	25.96	268 eP	12 29.60 3.2X
LRM	56.05	57 eP	32 33.00 0.0	YLV	0.34	215 ePn	23 52.10 26.3X			e	17 10.00
		e	33 00.20	EYL	0.49	124 ePn	23 55.60 26.8X	NST	26.82	287 eP	12 38.30 4.0X
CMB	56.93	69 ePc	32 38.70 -0.4	IZI	0.52	193 ePn	23 28.60 -0.7	PMG	27.35	132 eP	12 38.00 -1.2
GUN	57.14	274 P	32 40.22 -0.8	CTT	0.95	289 iPn	23 37.10 0.2	TSRJ	27.68	16 eP	12 41.80 -0.2
KKN	57.60	275 P	32 42.96 -1.1	KCT	1.13	239 ePn	23 54.10 14.1X	KMI	27.91	308 Pc	12 44.00 -0.5
PKI	57.67	274 P	32 43.62 -1.1	DST	1.45	212 ePg	23 46.70 1.6		2.0s	70.00nm	5.0mb
DMN	57.83	275 P	32 44.88 -0.9			eSg	23 56.70	Z	20s	4.60um	5.1Msz
GKN	57.84	275 P	32 44.84 -0.9		S.D. = 1.4 on 5 of 8 obs.			N	12s	0.80um	
GAR	58.65	294 eP	32 49.50 -1.7		APR 24, 1991 10h 06m 54.95 ± 0.24s			E	12s	2.20um	
TNP	58.71	67 P	32 51.80 0.0		9.047 N ± 4.3km 126.770 E ± 5.4km					PP	12 51.00
FRB	59.19	22 eP	32 55.00 0.6		DEPTH = 33.0km (normal)					SP	12 57.00
BW06	59.65	58 P	32 58.00 -0.3		5.4mb (30 obs.) 5.2Msz (13 obs.)					SS	18 44.00
	0.8s	9.52nm	5.0mb		MINDANAO, PHILIPPINE ISLANDS (259)						
MSU	61.24	63 P	33 09.70 0.6		CENTROID, MOMENT TENSOR (HRV)						
NUR	61.49	335 eP	33 10.00 -0.2		Data Used: GDSN						
RSSD	61.53	54 P	33 11.10 0.1		L.P.B.: 18S, 34C						
	0.7s	12.11nm	5.1mb		Centroid Location:						
GLA	63.65	70 P	33 24.70 -0.2		Origin Time 10:06:58.6 0.5						
NB2	64.01	342 P	33 25.80 -1.1		Lat 8.94N 0.07 Lon 127.65E 0.06						
	0.5s	1.40nm	4.3mb		Dep 15.0 BDY Half-duration 2.0						
SNG	64.12	247 eP	33 28.50 0.4		Moment Tensor: Scale 10**17 Nm						
HFS	64.35	341 eP	33 28.30 -0.8		Mrr=-1.42 0.06 Mtt= 0.15 0.08						
	0.6s	5.40nm	4.8mb		Mrr=-1.56 0.09 Mrt=-0.26 0.25						
		e	33 31.70		Mrf=-0.80 0.30 Mtf=-0.05 0.07						
		e	34 00.20		Principal Axes:						
ANMO	66.98	62 P	33 46.00 -0.6		T Vol= 1.66 Plg=74 Azm=124						
ALO	66.98	62 ePc	33 46.00 -0.6		N 0.11 8 6						
	0.8s	3.17nm	4.5mb		P -1.77 14 274						
SCH	67.45	26 eP	33 48.00 -1.0		Best Double Couple: Mo=1.7*10**17						
TUL	71.86	55 iPc	34 14.90 -1.3		NP1: Strike=352 Dip=31 Slip= 75						
	0.8s	9.60nm	4.9mb		NP2: 190 60 99						
FVM	72.84	50 P	34 22.20 0.2	DAV	2.28	211 iP-	07 36.00 5.0X				
ELC	73.97	49 P	34 27.40 -1.1	OCF	7.87	315 eP	09 06.00 16.0X	NIIJ	30.17	20 eP	13 04.40 0.0
OLY	74.33	52 P	34 29.20 -1.4	BAG	9.49	321 eP	09 07.00 -5.6X	CD2	30.54	319 eP	13 12.30 4.5X
WB2	74.37	202 iPc	34 28.20 -2.8	TSM	9.88	242 eP	09 25.00 7.2X		Z	17s	5.90um
	0.6s	2.20nm	4.3mb						N	14s	6.20um
		iPP	34 56.40								

YKA	1.2s	13.20nm	5.2mb	
	94.67	24 eP	20 14.70	0.9
	0.8s	4.00nm		4.9mb
KSP	95.64	323 eP	20 28.00	9.5X
CLL	97.37	325 eP	20 29.00	2.7X
ALO	113.37	46 ePKP	25 33.00	1.1
	Z 18s	0.60um		5.2Msz
KIC	129.31	286 PKP	26 03.40	0.6
UPA	148.27	56 ePKP	26 34.80	-2.0
LPB	163.71	119 ePKP	27 04.00	7.1X
ZOBO	163.80	118 PKP	27 00.50	3.3X
		LR	23 50.00	
SIV	169.70	133 PKP	27 04.20	3.3X
	S.D. = 1.2	on 82	of 111 obs.	
<hr/>				
* APR 24, 1991 10h 19m 29.86±0.63s				
8.943 N ± 9.9km 126.787 E ± 20.6km				
DEPTH = 60.0km (geophysicist)				
4.4mb (5 obs.)				
MINDANAO, PHILIPPINE ISLANDS (259)				
SSE	22.65	347 eP	24 26.50	-0.4
WB2	29.66	166 iPd	25 30.50	-1.6
	0.8s	3.40nm		4.1mb
		iPP	25 40.50	35kmX
		iPP	26 05.60	
		e	29 45.70	
QIS	31.91	157 iPc	25 52.00	0.0
	0.8s	29.00nm		5.2mb
ASPA	33.15	168 eP	26 02.50	-0.2
	0.9s	5.80nm		4.4mb
BAL	40.50	193 eP	27 05.50	0.9
MUN	41.93	194 eP	27 17.30	1.0
GBA	48.56	280 Pd	28 08.70	-0.7
	0.6s	4.80nm		4.7mb
INK	85.32	22 eP	32 02.00	0.7
YKA	94.75	24 eP	32 46.00	0.2
	0.8s	0.50nm		4.0mb
	S.D. = 1.0	on 9	of 9 obs.	
<hr/>				
% APR 24, 1991 10h 24m 12.69±1.17s				
40.636 N ± 11.2km 29.099 E ± 11.6km				
DEPTH = 10.0km (geophysicist)				
TURKEY (366)				
MD 2.7 (ISK).				
YLV	0.22	108 iPg	24 17.70	0.2
		iSg	24 22.10	
IZI	0.41	136 iPg	24 21.40	0.2
		iSg	24 27.60	
ISK	0.43	356 ePg	24 21.80	0.4
CTT	0.72	315 iPg	24 26.60	-0.3
		iSg	24 35.60	
EYL	0.81	95 ePg	24 27.90	-0.6
	S.D. = 0.5	on 5	of 5 obs.	
<hr/>				
* APR 24, 1991 10h 27m 24.49±0.98s				
40.435 N ± 9.1km 25.999 E ± 9.0km				
DEPTH = 27.8 ± 7.8 km				
AEGEAN SEA (365)				
MD 3.6 (ISK).				
EZN	0.66	158 iPg	27 36.90	-0.5
		eSg	27 44.10	
KDZ	1.29	340 iP	27 46.00	-0.8
		iS	28 05.00	
EDC	1.43	93 iPn	27 48.50	-0.2
BNT	1.47	92 iPn	27 49.10	-0.2
RZN	1.58	323 iP	27 52.00	0.8
		iS	28 11.00	
KCT	1.81	95 ePn	27 55.60	1.3
DMK	1.92	43 iPn	27 55.90	0.0

24d 10h

GKN 14.29 123 P 40 40.90 0.5
 DMN 14.86 123 P 40 48.16 0.7
 KKN 14.86 122 P 40 47.06 -0.4
 PKI 15.09 123 P 40 50.26 -0.1
 GUN 15.20 121 P 40 51.08 -0.6
 KER 19.67 271 eP 41 47.00 6.2X
 GBA 23.61 164 Pc 42 20.50 1.4
 0.4s 2.50nm 4.2mb
 KAF 37.57 327 eP 44 21.10 0.0
 NUR 37.78 324 eP 44 23.00 0.1
 HFS 43.03 322 eP 45 05.70 -0.2
 0.7s 7.30nm 4.3mb
 NB2 44.34 323 P 45 16.30 -0.1
 0.6s 3.70nm 4.0mb
 INK 73.77 9 eP 48 39.00 0.9
 YKA 81.12 3 eP 49 18.30 0.0
 0.6s 1.00nm 3.7mb
 WRA 81.98 122 P 49 23.00 -0.5
 0.9s 1.80nm 3.8mb
 WB2 81.99 122 iPc 49 22.40 -1.2
 0.8s 1.90nm 3.9mb
 ASPA 84.25 125 eP 49 34.90 -0.1
 1.1s 4.60nm 4.1mb

S.D. = 0.7 on 17 of 18 obs.

APR 24, 1991 10h 54m 35.74 ± 0.23s
 39.597 N ± 5.3km 41.118 E ± 3.0km
 DEPTH = 33.0km (normal)
 4.5mb (19 obs.)

TURKEY (366)
 One person killed, 3 injured and
 some houses damaged in Erzurum
 Province.

GAZ 3.91 233 ePn 55 35.00 0.1
 KVT 4.15 293 ePn 55 46.60 8.2X
 TAB 4.34 109 eP 55 51.00 9.7X
 BHL 7.18 219 P 56 22.00 0.9
 S 58 36.00
 ELL 9.27 256 iP 56 54.30 4.0X
 MLR 12.64 303 eP 57 41.00 5.0X
 e 00 00.00
 SKO 15.10 285 ePn 58 02.50 -5.7X
 OHR 15.57 282 eP 58 20.80 6.4X
 1.2s 85.00nm 4.8mb
 OBN 15.80 350 iP 58 20.50 3.3X
 0.6s *****nm 7.7mb X
 i 58 24.00
 e 59 08.00

SPC 17.68 310 eP 58 42.60 1.5
 SRO 18.37 304 eP 58 54.90 5.5X
 ZST 19.26 304 eP 59 01.40 1.2
 PRU 21.42 308 eP 59 22.50 -0.3
 Z 15s 1.20um 4.4mszX
 e 59 37.50

KBA 21.46 299 iP 59 24.30 0.9
 1.0s 20.20nm 4.5mb
 i 59 30.30
 i 59 42.10

KHC 21.77 305 P 59 11.50 -14.8X
 Z 16s 0.80um 4.2mszX
 E 16s 0.80um

BHG 21.89 301 iPd 59 28.60 1.0
 BRG 22.08 310 e(P) 59 25.70 -3.7X
 GAR 22.56 82 iP 59 35.70 1.3
 CLL 22.79 310 e(P) 59 36.00 -0.3
 e 59 47.00

QUE 23.11 106 eP 59 41.00 1.1
 NUR 23.32 339 iP 59 41.40 0.0
 e 59 54.00

GRF 23.40 305 eP 59 49.30 7.0X
 KAF 24.29 343 iP 59 50.90 0.1
 0.6s 6.50nm 4.4mb
 eSP 59 53.60

UPP 25.09 332 eP 59 58.00 -0.4
 LPG 25.86 294 eP 00 06.30 0.1
 0.7s 12.15nm 4.6mb

LPL 25.88 295 eP 00 06.50 0.2
 0.7s 5.50nm 4.3mb

HFS 26.77 329 eP 00 13.60 -0.4
 0.8s 10.70nm 4.5mb
 e 00 16.70
 e 00 19.80

SMF 27.91 297 eP 00 24.30 -0.3
 0.9s 6.55nm 4.3mb

LOR 27.91 298 iPc 00 24.70 0.1
 0.9s 4.90nm 4.2mb

AVF 28.25 297 eP 00 27.10 -0.5
 0.8s 4.05nm 4.2mb

MAF 28.79 296 iPc 00 32.40 -0.1
 0.7s 4.40nm 4.3mb

TCF 29.03 296 iPc 00 34.50 -0.3
 0.7s 3.85nm 4.2mb

LPO 29.83 293 eP 00 32.60 -9.2X
 LFF 30.12 294 eP 00 44.40 -0.1

EPF 30.61 290 eP 00 47.30 -1.5
 EKA 33.17 313 P 01 11.00 0.0
 0.9s 8.10nm 4.6mb

TOL 34.45 285 eP 01 22.50 0.2
 WMO 34.67 68 P 01 24.50 0.3

IFR 37.32 275 iP 01 47.50 0.7
 GKN 37.63 94 P 01 49.86 0.3

DMN 38.19 95 P 01 54.90 0.6
 KKN 38.23 94 P 01 54.96 0.3

PKI 38.44 94 P 01 56.24 -0.3
 GUN 38.64 94 P 01 58.54 0.4

HYB 39.23 113 eP 02 07.00 4.2X
 GBA 41.09 119 Pd 02 18.20 0.2
 0.9s 7.00nm 4.4mb

GTA 44.57 71 P 02 47.00 0.6
 1.0s 10.00nm 4.6mb

PP 02 54.00
 LZH 48.77 73 eP 03 19.70 0.1
 1.5s 20.00nm 4.9mb

PP 03 23.50
 LKO 51.16 247 P 03 36.86 -1.0
 1.4s 41.50nm 5.2mb

HHC 52.42 64 eP 03 47.60 0.3
 KIC 52.79 244 P 03 49.30 -0.8
 0.8s 8.50nm 4.8mb

LIC 53.09 244 P 03 51.40 -0.9
 XAN 53.41 73 P 03 54.00 -0.5

CHG 53.61 95 eP 03 55.00 -1.2
 TIY 54.34 68 eP 04 00.80 -0.6

GYA 55.39 83 P 04 07.80 -1.4
 CN2 60.45 56 eP 04 43.00 -1.4

INK 72.34 358 eP 05 58.50 -1.0
 YKA 76.39 349 eP 06 22.10 -0.9
 1.1s 4.50nm 4.4mb

FFC 80.87 339 iPd 06 48.50 1.0
 0.6s 7.00nm 4.8mb

SES 87.11 343 eP 07 20.00 0.7
 S.D. = 0.8 on 48 of 61 obs.

? APR 24, 1991 12h 56m 29.39 ± 2.92s
 16.282 N ± 26.3km 97.454 W ± 13.7km
 DEPTH = 33.0km (normal)

OAXACA, MEXICO (60)

OXX 1.06 41 iP 56 48.24 0.1
 iS 57 07.01

ACX 2.38 285 (P) 57 06.83 -0.1
 iS 57 27.38

IISM 2.69 2 iP 57 11.00 -0.3
 iS 57 40.00

III 2.83 318 (P) 57 09.00 -4.5X
 (S) 57 44.00

IIT 2.84 343 (P) 57 13.00 -0.7
 iS 57 49.00

PPM 2.99 338 iP 57 18.88 2.9X
 (S) 57 53.27

IIA 3.07 338 (P) 57 17.69 1.0
 MRX 4.92 314 (P) 57 33.60 -9.4X
 (S) 58 52.38

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

? APR 24, 1991 12h 58m 30.61 ± 0.96s
 39.075 N ± 8.2km 27.624 E ± 9.8km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 2.6 (ISK).

IZM 0.73 203 ePg 58 45.00 0.0
 eSg 58 57.00

DST 0.94 55 ePn 58 48.70 0.1
 EZN 1.25 307 ePn 58 54.00 0.1

BNT 1.30 10 ePn 58 54.50 -0.2
 S.D. = 0.2 on 4 of 4 obs.

APR 24, 1991 13h 22m 16.97 ± 0.28s
 39.294 N ± 2.7km 16.722 E ± 2.6km
 DEPTH = 11.6 ± 1.9 km
 3.9mb (3 obs.)

SOUTHERN ITALY (390)

MD 4.3 (THE).

TDS 0.47 321 P 22 26.90 0.3
 eSg 22 35.00

GR1 0.53 206 P 22 27.03 -0.7
 OR1 0.80 345 P 22 33.20 0.9

GMB 1.31 211 P 22 42.97 1.8
 LCI 1.41 42 P 22 44.10 1.7

ATN 1.50 221 P 22 43.80 0.1
 eSg 23 03.30

BRT 1.62 13 P 22 46.10 0.6
 eSn 23 07.90

BAI 1.83 3 P 22 48.00 -0.4
 MNO 2.09 230 P 22 53.50 1.0

VLO 2.44 60 ePn 23 01.60 4.4X
 GIB 2.48 239 P 22 58.20 0.3

PZI 2.67 213 P 22 59.68 -1.0
 TPE 2.72 67 ePn 23 01.00 -0.4

IGT 2.81 84 eP 23 02.80 0.3
 eS 23 35.80

RFI 2.90 315 P 23 07.98 4.2X
 DUI 2.93 325 P 23 04.20 -0.1

LSK 3.11 73 ePn 23 06.80 0.0
 FAI 3.13 231 P 23 07.00 -0.1

TIR 3.16 49 ePn 23 08.00 0.5
 VLS 3.22 109 ePb 23 07.00 -1.4

LACI 3.27 43 eP 23 08.90 -0.1
 SDI 3.27 318 P 23 09.80 0.6

ULC 3.29 35 iPnd 23 09.02 -0.3
 BDV 3.39 27 iPnd 23 10.51 -0.2

HCY 3.43 23 iPnd 23 10.69 -0.6
 SDA 3.44 37 ePn 23 12.10 0.6

OHR 3.61 59 iPn 23 15.00 1.0
 TTG 3.68 31 iPnd 23 14.57 -0.3

PHP 3.71 49 ePn 23 14.80 -0.5
 BRY 3.86 20 iPnd 23 16.82 -0.7

FNA 3.87 66 eP 23 18.10 0.4
 eS 24 02.80

HVAR 3.89 357 iPnd 23 16.70 -1.1
 NKY 3.91 25 iPnd 23 17.91 -0.4

KZN 4.02 74 ePn 23 20.50 0.8
 PVY 4.12 36 iPnd 23 21.56 0.4

IVA 4.31 33 iPnd 23 24.89 1.0
 MNS 4.35 316 P 23 25.00 0.5

AGG 4.37 92 eP 23 24.80 0.1
 eS 24 12.80

SKO 4.48 52 ePn 23 25.50 -0.7
 i 23 44.00
 iSn 24 18.60

PLE 4.51 26 iPnd 23 27.46 0.8
 LIT 4.52 78 eP 23 27.60 0.7
 eS 24 16.80

GRG 4.66 67 eP 23 28.80 -0.1
 eS 24 20.60

VAY 4.91 64 ePn 23 32.70 0.4
 PAIG 5.41 81 eP 23 39.20 -0.2

VLI 5.54 116 ePn 23 40.50 -0.8
 BEO 6.18 25 ePn 24 14.00 23.8X

VBY 6.30 351 iPnd 23 51.90 0.0
 e(Sn) 25 20.10

PTJ 6.63 355 eP 23 56.10 -0.5
 VOY 7.05 344 e(Pn) 24 02.10 -0.4

MLR 9.21 45 eP 24 40.00 7.3X
 HFS 20.95 356 eP 27 00.00 -1.9
 0.7s 3.20nm 3.8mb

Z 15s 0.15um 3.5mszX
 e 27 05.40
 LR 35 23.00

NB2 22.04 353 P 27 12.90 0.0
 0.9s 7.00nm 4.1mb

YKA 71.29 338 eP 33 35.90 -2.0
 0.6s 0.50nm 3.8mb

S.D. = 0.8 on 49 of 53 obs.

? APR 24, 1991 13h 34m 59.98 ± 3.27s
 24.890 N ± 40.6km 123.239 E ± 46.6km
 DEPTH = 136.7 ± 35.9 km
 3.5mb (1 obs.)

SOUTHWESTERN RYUKYU ISLANDS (246)

TWC 1.29 258 eP 35 26.60 0.0
 eS 35 44.80

TWD 1.70 242 ePc 35 31.30 0.1
 TWO 2.27 255 ePd 35 38.10 0.0

eS 36 05.00
 TWF1 2.34 230 iPc 35 38.90 -0.1
 eS 36 06.50

TWK	2.99	238	ePc	35	47.40	0.1	NCG	2.21	21	eP	18	40.60	-1.0	1.4s	30.00nm	5.1mb				
			eS	36	21.40		SEW	2.33	69	ePc	18	41.24	-1.7	Z	16s	4.20um	3.5Msz			
WB2	45.86	165	iPc	43	10.20	0.0									eSP	30	33.00			
	1.0s	1.10nm					SUA	2.61	34	ePd	18	45.51	-1.2		eS	32	54.00			
	S.D. = 0.1	on	6	of	6	obs.								MAT	13.71	195	eP	30	29.00	-1.4
							PMS	2.84	46	ePd	18	48.10	-1.7		eS	32	59.00			
* APR 24, 1991	13h	41m	19.95±1.35s				SKT	2.86	22	ePc	18	48.62	-1.5	MTMJ	13.74	197	P	30	37.90	7.0X
68.016 N ± 9.6km	161.495 W ± 16.1km													KAKJ	13.78	188	P	30	36.40	5.1X
DEPTH = 10.0km	(geophysicist)													CHJJ	14.07	192	P	30	41.10	6.0X
3.7mb (1 obs.)							PWA	3.01	38	eP	18	50.92	-1.1	YAK	14.13	334	eP	30	33.90	-1.8
ALASKA						(676)	LTI	3.09	75	eP	18	51.30	-1.8		ePPP	31	05.00			
ML 3.6 (PMR).							MTU	3.18	76	iPd	18	52.60	-1.7		i	33	35.00			
							KNIM	3.22	69	iPd	18	52.40	-2.4		ePcP	34	13.00			
IMA	3.63	119	eP	42	18.20	0.7									eS	34	30.00			
			e	42	21.70		PLRM	3.22	44	eP	18	52.68	-2.2		ePS	34	47.00			
BRW	3.70	24	eP	42	19.20	1.0									e	35	00.00			
ANM	3.80	206	eP	42	19.40	-0.4	PMR	3.22	44	eP	18	52.90	-1.9		eSS	35	12.00			
TTA	5.59	153	eP	42	45.80	0.6	KNK	3.36	50	eP	18	54.07	-2.7		eSSS	35	33.00			
FBA	6.31	113	eP	42	57.80	2.5X									eScS	41	39.00			
SVW	7.38	157	eP	43	11.10	0.8	GHO	3.42	43	eP	18	55.06	-2.5							
PMR	8.31	135	eP	43	26.00	2.7X	CUT	3.52	28	eP	18	56.49	-2.3	TSRJ	15.13	201	P	30	55.10	6.1X
PDB	8.86	155	eP	43	30.20	-0.6	SML	3.65	45	eP	18	57.78	-2.9	SNY	15.51	246	Pc	30	55.00	1.2
KLU	9.31	127	e(P)	43	40.00	2.9X	GLI	3.69	63	eP	18	58.04	-3.1		1.0s	100.00nm			5.0mb	
INK	10.38	75	P	43	48.00	-3.7X	TTA	3.75	344	eP	18	59.50	-2.5	Z	16s	2.40um			4.7MszX	
	0.4s	2.10nm				4.9mb X	HIN	3.82	71	ePc	19	00.65	-2.4	N	15s	2.30um				
YKA	19.95	83	Pc	45	52.40	-2.1	VZW	4.00	62	eP	19	02.83	-2.6	E	16s	1.60um				
	0.8s	3.10nm				3.7mb									PP	31	02.80			
	S.D. = 1.3	on	7	of	11	obs.	SCM	4.05	49	eP	19	03.37	-2.7	BJI	21.06	252	eP	31	59.00	-0.6
& APR 24, 1991	14h	18m	05.01s				VLZ	4.13	61	eP	19	04.38	-2.							

24d 15h

GBA	63.78	260	Pc	37	42.00	10kmX
	1.0s		8.30nm	37	46.50	-0.8
FRB	64.10	15	eP	37	47.00	-1.8
CMB	66.05	59	ePc	38	04.50	2.6X
SPC	69.64	324	eP	38	23.70	-0.6
KSP	69.73	327	eP	38	24.50	-0.1
WB2	69.89	188	iPc	38	24.80	-1.0
	1.0s		5.80nm			4.6mb
WRA	69.89	188	P	38	25.00	-0.8
	0.9s		6.10nm			4.7mb
CLL	70.46	329	iPc	38	28.20	-0.8
	1.3s		15.00nm			4.9mb
PRU	71.06	328	eP	38	33.20	0.5
MOX	71.49	330	eP	38	35.50	0.2
SRO	71.51	324	eP	38	25.90	-9.5X
ZST	71.64	325	eP	38	37.30	1.1
KHC	72.12	328	iP	38	39.50	0.4
GRF	72.44	329	eP	38	42.00	1.1
ASPA	73.62	188	eP	38	47.70	-0.3
	0.9s		8.90nm			4.8mb
ALO	75.80	52	eP	39	02.00	1.1
	1.3s		8.65nm			4.6mb
FLN	76.75	336	eP	39	05.80	0.1
	1.2s		20.85nm			5.0mb
LDF	76.81	336	eP	39	06.10	0.1
LOR	76.89	333	eP	39	06.20	-0.3
	1.1s		9.75nm			4.7mb
Z	19s		0.13um			4.2Msz
GRR	77.20	336	eP	39	08.20	0.1
	1.0s		12.00nm			4.9mb
SMF	77.46	332	eP	39	09.50	-0.1
	1.3s		21.65nm			5.0mb
AVF	77.47	333	eP	39	10.00	0.3
LPL	77.56	330	eP	39	11.10	0.6
LPF	77.57	336	eP	39	10.60	0.4
	1.2s		20.85nm			5.0mb
LPG	77.58	330	eP	39	11.30	0.6
	1.3s		18.05nm			4.9mb
MAF	78.22	333	eP	39	14.30	0.5
	1.1s		11.00nm			4.8mb
TCF	78.26	333	eP	39	14.20	0.1
	1.1s		7.35nm			4.6mb
LSF	78.50	334	eP	39	15.40	0.0
MF	78.65	335	eP	39	16.60	0.5
CAF	79.54	333	eP	39	22.40	1.3
	1.2s		13.40nm			4.8mb
LFF	79.92	334	eP	39	24.10	1.0
TOL	85.94	335	eP	39	55.00	0.8
PPD	150.11	27	ePKP	47	05.90	6.0X
S.D. = 0.9 on 70 of 80 obs.						
? APR 24, 1991 16h 19m 14.91±7.84s						
12.703 S ±74.1km 119.669 E ±36.2km						
DEPTH = 33.0km (normal)						
3.4mb (2 obs.)						
SOUTH OF SUMBA ISLAND						(292)
MBL	8.41	179	eP	21	18.00	0.5
	0.2s		23.00nm			6.0mb X
			e	21	21.00	
WARB	14.93	155	eP	22	54.00	8.6X
WB2	15.82	119	eP	22	56.30	-0.6
	0.4s		1.00nm			3.3mb
ASPA	17.35	131	eP	23	16.90	0.5
	1.5s		6.70nm			3.5mb
BAL	18.03	188	eP	23	23.00	-1.6
			eS	27	00.00	
COOL	18.14	176	eP	23	31.00	4.9X
			eS	27	10.00	
MUN	19.45	189	eP	23	43.00	1.2
			eS	27	33.00	
S.D. = 1.6 on 5 of 7 obs.						
APR 24, 1991 16h 58m 29.37±1.21s						
41.364 N ±8.6km 29.324 E ±7.0km						
DEPTH = 7.2 ± 6.4 km						
TURKEY						(366)
MD 3.0 (ISK).						
ISK	0.36	214	ePg	58	36.90	0.2
			eSg	58	43.90	
GBZT	0.58	171	ePg	58	40.50	-0.6
HRT	0.60	154	iPg	58	41.70	0.3
			eSg	58	47.80	
CTT	0.71	252	iPg	58	43.50	-0.1
YLV	0.80	177	iPa	58	45.20	0.0

EYL	1.02	141	ePg	58	49.00	0.1	
IZI	1.03	174	iPg	58	49.30	0.1	
DMK	1.26	292	iPn	58	52.90	-0.2	
KCT	1.33	214	iPn	58	53.90	-0.4	
BNT	1.47	227	ePn	58	56.40	0.2	
EDC	1.50	228	ePn	58	57.00	0.3	
S.D. = 0.3 on 11 of 11 obs.							
* APR 24, 1991 17h 54m 02.18±0.64s							
10.298 N ±13.4km 83.020 W ±11.7km							
DEPTH = 10.0km (geophysicist)							
4.6mb (7 obs.)							
COSTA RICA (78)							
MD 4.9 (SJR). Felt.							
UPA	3.68	111	P	55	00.50	0.2	
		S		55	42.10		
PPM	17.42	302	iP	58	08.50	0.9	
NNA	22.97	164	eP	59	08.00	-0.2	
	1.3s	19.23nm				4.5mb	
LPB	30.47	151	eP	00	29.00	10.9X	
SCH	46.23	13	eP	02	36.00	6.8X	
FFC	46.80	345	eP	02	34.00	0.4	
	0.6s	5.00nm				4.8mb	
YKA	56.87	343	eP	03	47.20	-2.1	
	0.9s	3.10nm				4.3mb	
INK	66.57	342	eP	04	53.50	-0.8	
EKA	75.83	35	P	05	51.00	0.8	
	1.0s	6.10nm				4.6mb	
LKO	76.08	83	P	05	52.50	0.0	
	0.7s	11.50nm				5.1mb	
TIC	77.08	86	P	05	57.80	-0.2	
LIC	77.13	86	P	05	58.00	-0.3	
KIC	77.39	86	P	05	59.50	-0.3	
NB2	83.12	29	P	06	30.20	0.8	
	0.9s	4.00nm				4.6mb	
HFS	84.48	30	eP	06	36.00	-0.3	
	0.4s	0.70nm				4.2mb	
Z	17s	0.08um				4.1mszX	
		LR		38	20.00		
CLL	85.79	39	eP	06	44.00	1.0	
WB2	142.75	251	ePKP	13	30.10	-8.3X	
	0.7s	1.80nm					
		e		14	17.20		
WRA	142.76	251	PKP	13	42.00	3.5X	
	0.8s	3.30nm					
S.D. = 0.9 on 14 of 18 obs.							
% APR 24, 1991 18h 02m 13.56±0.74s							
38.289 N ±6.8km 28.094 E ±7.3km							
DEPTH = 10.0km (geophysicist)							
TURKEY (366)							
MD 3.2 (ISK).							
IZM	0.66	280	iPg	02	26.10	-0.7	
		eSg		02	35.60		
KHL	1.13	88	iPn	02	33.30	-1.4	
YER	1.16	173	ePn	02	36.20	0.9	
DST	1.38	17	ePn	02	36.10	-2.7X	
KCT	1.97	6	ePn	02	48.00	0.7	
EZN	2.06	319	iPn	02	48.20	-0.4	
EDC	2.06	355	iPn	02	48.00	-0.6	
BNT	2.07	356	iPn	02	49.30	0.6	
IZI	2.31	27	ePn	02	52.00	-0.3	
YLV	2.48	23	ePn	02	56.00	1.3	
S.D. = 1.0 on 9 of 10 obs.							
APR 24, 1991 18h 11m 53.65±0.70s							
36.001 N ±7.4km 140.008 E ±6.9km							
DEPTH = 62.4 ± 6.5 km							
4.3mb (5 obs.)							
NEAR EAST COAST OF HONSHU, JAPAN(228)							
KAKJ	0.24	33	iP+	12	03.50	-0.2	
		S		12	09.50		
CHJJ	0.82	274	iPd	12	08.60	-1.0	
		S		12	18.30		
NIIJ	1.48	327	iPd	12	17.90	-0.5	
		S		12	36.50		
MAT	1.55	291	iPd	12	19.10	-0.3	
		eS		12	35.00		
IIDJ	1.78	254	P	12	23.90	1.2	
		eS		12	45.90		
MTMJ	1.87	289	iPd	12	23.90	-0.1	
YAMJ	2.17	1	iPd	12	28.70	0.7	
TSRJ	3.31	263	P	12	45.80	1.7	
		eS		13	23.80		

OFUJ	3.34	23	P	12	44.40	-0.2
WKYJ	4.03	245	P	12	53.80	-0.5
TKSJ	5.29	249	P	13	11.40	-0.5
YONJ	5.39	263	eP	13	13.70	0.3
INK	55.82	27	eP	21	27.00	0.7
WB2	55.90	186	eP	21	27.40	0.1
	0.3s	1.60nm				4.5mb
WRA	55.90	186	P	21	27.00	-0.3
	0.5s	1.70nm				4.3mb
GBA	60.00	265	Pd	21	55.40	-0.9
	0.5s	2.20nm				4.5mb
YKA	65.27	30	eP	22	30.70	0.2
	0.8s	0.50nm				3.5mb
NB2	74.70	337	P	23	27.40	-0.6
	0.5s	1.20nm				4.1mb
S.D. = 0.8 on 18 of 18 obs.						

% APR 24, 1991 18h 21m 30.55± 0.44s						
40.400 N ± 4.9km 28.926 E ± 3.3km						
DEPTH = 10.0km (geophysicist)						
TURKEY (366)						
MD 2.8 (ISK).						
YLV	0.38	64	iPg	21	38.60	0.2
			eSg	21	42.50	
IZI	0.42	98	iPg	21	39.00	-0.2
			iSg	21	46.00	
KCT	0.46	251	iPg	21	39.70	-0.2
ISK	0.67	9	ePg	21	43.90	0.0
HRT	0.70	53	iPg	21	44.10	-0.4
BNT	0.77	267	iPg	21	45.30	-0.3
			iSg	21	56.80	
EDC	0.81	267	iPg	21	46.00	-0.3
			iSg	21	58.00	
DST	0.83	196	ePg	21	47.10	0.5
CTT	0.84	333	iPg	21	46.40	-0.3
			iSg	21	57.30	
EYL	0.95	80	iPg	21	48.70	-0.1
DMK	1.67	329	ePn	22	01.00	1.0
S.D. = 0.5 on 11 of 11 obs.						

* APR 24, 1991 18h 31m 44.74± 0.99s						
8.271 S ±15.1km 114.467 E ±12.3km						
DEPTH = 33.0km (normol)						
4.7mb (4 obs.)						
BALI ISLAND REGION (283)						
TRT	1.90	287	iPc	32	15.00	-0.4
			iS	33	55.50	
MBL	13.82	159	eP	34	58.60	-2.1
	0.2s	13.00nm				5.4mb X
			eS	37	14.00	
MTN	17.00	107	eP	35	43.50	1.8
			eS	38	35.00	
MEKA	18.65	169	eP	36	03.00	0.9
			eS	39	10.00	
WARB	21.24	148	eP	36	29.80	-0.6
	0.3s	6.00nm				4.5mb
			eS	40	11.00	
BAL	22.32	175	eP	36	42.50	1.4
			eS	40	38.00	
WB2	22.48	123	eP	36	41.50	-1.2
	0.5s	5.00nm				4.2mb
			eS	40	43.10	
COOL	23.35	165	eP	36	51.00	-0.2
			eS	40	58.00	
MUN	23.64	176	eP	36	55.50	1.5
			eS	41	10.00	
ASPA	24.10	132	iPd	36	58.30	-0.3
	0.5s	21.70nm				4.9mb
			eS	41	27.50	
KHT	27.79	325	eP	37	42.00	9.0X
CHG	30.96	330	eP	38	10.00	8.7X
STK	34.46	137	iPc	38	30.60	-1.1
	0.5s	7.40nm				4.9mb
HYB	43.72	306	eP	39	55.50	6.6X
KKN	45.63	323	P	40	10.82	6.5X
YKA	115.32	23	ePKP	50	24.50	0.2
	0.5s	0.80nm				
LKO	120.83	276	PKP	50	37.76	1.5X
	0.4s	6.00nm				
S.D. = 1.3 on 12 of 17 obs.						

APR 24, 1991 19h 04m 20.66± 0.2Bs						
44.312 N ± 1.8km 6.735 E ± 2.5km						
DEPTH = 10.0km (geophysicist)						
FRANCE (538)						

ML 2.4 (GEN), 2.2 (LDG).

PZZ	0.33	54	P	04 27.73	0.3
			S	04 32.34	
DOI	0.41	62	P	04 29.00	-0.1
			eSg	04 34.50	
STV	0.43	99	P	04 29.23	-0.2
			S	04 35.34	
TOUF	0.47	129	Pg	04 30.30	-0.1
ENR	0.50	100	P	04 30.50	-0.3
			S	04 37.65	
MVIF	0.51	144	Pg	04 31.19	0.1
			Sg	04 39.03	
CALN	0.57	169	Pg	04 32.56	0.2
AUTN	0.59	122	Pg	04 32.58	-0.2
AURF	0.60	135	Pg	04 32.86	0.0
			Sg	04 41.05	
RRL	0.61	3	P	04 32.46	-0.6
			S	04 40.77	
SAOF	0.67	119	Pg	04 33.90	-0.2
SBF	0.68	131	Pg	04 33.90	-0.2
			Sg	04 42.80	
REVF	0.73	141	Pg	04 35.31	0.2
FRF	0.75	185	Pg	04 35.30	-0.1
			Sg	04 45.00	
ROB	0.82	91	P	04 36.73	0.2
			S	04 47.34	
LRG	0.90	198	Pg	04 37.50	-0.4
			Sg	04 49.80	
RSP	0.92	24	P	04 38.46	0.2
			S	04 49.76	
CDR	0.95	228	eP	04 39.10	0.4
			e	04 40.30	
			e	04 52.10	
LMR	0.99	190	Pg	04 39.40	-0.1
			Sg	04 52.20	
FIN	1.06	95	P	04 40.93	0.2
			S	04 53.80	
LSD	1.18	14	P	04 42.62	-0.3
			S	04 56.80	
LPG	1.19	1	Pg	04 43.20	0.2
LPL	1.20	360	Pg	04 43.30	0.1
PCP	1.32	79	P	04 45.59	0.6
			S	05 01.30	
PGF	2.41	136	Pn	05 00.60	-0.3
			Sn	05 28.60	

S.D. = 0.3 on 25 of 25 obs.

* APR 24, 1991 19h 11m 45.74 ± 0.64s
 31.808 N ± 7.0km 104.541 E ± 11.9km
 DEPTH = 33.0km (normal)
 4.7mb (3 obs.)

SICHUAN PROVINCE, CHINA (307)

CD2	1.12	217	Pg	12 04.70	-0.5
			Sg	12 20.50	
XAN	4.30	58	Pn	12 50.00	-0.6
			Pg	13 02.00	
			Sn	13 40.00	
			Sg	13 58.50	
LZH	4.31	352	ePn	12 50.00	-0.8
			Pg	13 01.50	
			Sn	13 40.00	
			Sg	13 56.00	
GYA	5.64	160	Pn	13 10.00	0.4
			Sn	14 13.40	
			Sg	14 47.40	
KMI	6.85	194	ePn	13 27.00	0.4
CN2	20.34	48	eP	16 22.00	0.2
WRA	58.85	147	P	21 43.00	-0.7
	0.5s	2.10nm			4.5mb
WB2	58.86	147	iPd	21 43.40	-0.3
	0.4s	6.40nm			5.1mb
ASPA	61.90	149	eP	22 04.20	-0.3
	0.8s	4.60nm			4.7mb
INK	71.37	19	eP	23 06.00	2.1

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

APR 24, 1991 19h 13m 02.11 ± 0.16s
 9.741 N ± 3.2km 83.517 W ± 2.7km
 DEPTH = 12.7km (geophysicist)
 5.6mb (82 obs.) 6.1Msz (35 obs.)
 COSTA RICA (78)
 Ms 6.2 (BRK), 5.9 (PAS).
 Mo=3.0*10**18 Nm (PPT). Felt
 throughout Costa Rica and
 western Panama. A landslide

blocked the Pan-American
 Highway.
 FAULT PLANE SOLUTION: P-Waves
 NP1: Strike=145 Dip=90 Slip= 175
 NP2: 235 85 360
 Principal Axes:

T P1g= 4 Azm=100
 P 4 190
 Comment: The focal mechanism is
 moderately well controlled and
 corresponds to strike-slip
 faulting with a small reverse
 component. The preferred fault
 plane is not determined.

RADIATED ENERGY
 No. of sta: 5 Focal mech. F
 Energy 3.9±1.6*10**14 Nm

MOMENT TENSOR SOLUTION
 Dep 13 No. of sta: 14
 Moment Tensor: Scale 10**18 Nm
 Mrr= 0.12 Mtt=-1.85
 Mff= 1.74 Mrt=-0.33
 Mrf= 0.20 Mtf= 0.90

Principal axes:
 T Val= 1.96 P1g= 4 Azm=283
 N 0.17 80 171
 P -2.12 9 14

Best Double Couple: Mo=2.0*10**18
 NP1: Strike= 58 Dip=81 Slip= -4
 NP2: 149 86 -171

CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN

L.P.B.: 24S, 61C
 Centroid Location:

Origin Time 19:13: 8.3 0.3
 Lat 9.79N 0.03 Lon 83.56W 0.03

Dep 22.5 2.7 Half-duration 4.4
 Moment Tensor: Scale 10**18 Nm

Mrr=-0.06 0.03 Mtt=-1.65 0.04
 Mff= 1.71 0.05 Mrt=-0.43 0.08
 Mrf=-0.06 0.07 Mtf= 0.59 0.03

Principal Axes:
 T Val= 1.82 P1g= 4 Azm=100
 N 0.03 76 208
 P -1.85 13 9

Best Double Couple: Mo=1.8*10**18
 NP1: Strike=145 Dip=78 Slip=-174
 NP2: 54 84 -12

CDM	0.31	233	P	13 04.60	-4.3X
IRZ2	0.44	301	P	13 11.50	0.2
OCM	0.46	289	P	13 09.50	-2.2
HDC2	0.67	295	P	13 13.50	-1.7
QPS	0.69	241	P	13 11.20	-4.4X
TIG	0.73	163	P	13 12.40	-3.9X
POA2	0.84	301	P	13 17.60	-0.7
EPA	1.09	283	P	13 19.80	-2.6
CTCR	1.12	138	P	13 20.70	-2.4
JTS	1.52	291	P	13 27.90	-1.1
CAO	1.56	269	P	13 27.70	-2.0
JUD	2.04	282	P	13 36.10	-0.6
RIN3	2.11	300	P	13 37.70	0.1
UPA	4.00	101	iP	14 03.50	-1.0
GCM	9.71	12	eP	15 24.80	0.2
TPX	9.96	302	iP	15 29.30	1.2
PSO	10.49	144	eP	15 36.50	0.8
STH	10.53	37	eP	15 36.21	0.3
FUO	10.58	113	eP	15 37.50	0.6
YHJ	10.59	39	eP	15 37.07	0.4
BMG	10.66	104	iPd	15 36.00	-1.8
BOG	10.67	118	iPc	15 40.00	2.0
			iS	17 35.00	
YANA	10.96	153	eP	15 41.00	-1.2
OUR	11.03	153	eP	15 43.00	-0.1
CAYA	11.07	150	Pd	15 43.70	0.0
VC1	11.50	153	Pd	15 50.60	1.0
ANGL	11.69	149	eP	15 39.10	-13.0X
SDV	12.74	93	eP	16 03.10	-3.0X
			iS	18 19.50	
TOV	13.53	89	eP	16 14.40	-1.9
			iS	18 42.00	
OXX	14.77	301	iP	16 33.77	1.0
CEOS	15.00	91	iP	16 32.30	-3.4X
LVVM	15.96	310	(P)	16 48.20	0.1
LIISM	16.26	306	(P)	16 50.83	-1.1
IIT	17.03	304	iP	17 03.30	1.4
PPM	17.31	304	iP	17 07.29	1.6

IIA	17.38	304	iP	17 08.07	2.0
ACX	17.40	296	iP	17 08.35	2.0
III	17.68	301	iP	17 12.36	2.3X
MGP	17.93	61	P	17 16.60	3.7X
LRS	18.26	60	P	17 20.00	2.9X
CLLP	18.40	61	P	17 19.50	0.7
SJG	18.79	62	iP	17 25.60	2.1
CPD	18.96	62	P	17 25.00	-0.7
CUM	19.06	86	iP	17 24.00	-2.8X
LPR	19.11	62	P	17 28.00	0.5
MRX	19.74	302	iP	17 38.00	3.3X
TCE	21.44	86	eP	17 51.50	-0.9
TRN	21.78	86	eP	17 55.50	-0.3
TBH	22.11	86	eP	18 00.00	0.9
PAG	22.17	71	eP	18 01.00	1.2
			eTT	38 10.00	
BBL	22.25	73	eP	18 00.00	-0.5
BPA	22.27	69	eP	18 00.00	-0.7
DPMT	22.28	74	eP	18 05.00	4.2X
NNA	22.58	163	eP	18 03.70	-0.1
	1.4s	162.79nm			5.3mb
Z	18s	2.58um			4.7MszX
			eS	22 14.00	
DEG	22.82	71	eP	18 05.00	-1.2
HBf	23.26	7	P	18 11.00	0.8
SGS	23.50	6	P	18 13.00	0.4
PRM	24.25	2	P	18 20.50	0.6
JSC	24.51	5	P	18 23.20	0.8
LHS	24.75	5	P	18 24.80	0.1
TKL	25.80	360	P	18 34.50	-0.1
RSCP	25.81	356	P	18 35.00	0.2
Z	20s	20.34um			5.7Msz
GBTN	25.81	359	P	18 35.70	0.9
OLY	26.65	345	P	18 41.50	-1.0
BLA	27.49	5	P	18 50.00	-0.2
	1.5s	421.05nm			5.9mb
NAV	27.56	5	P	18 50.00	-0.9
TUL	28.34	339	ePc	18 56.70	-1.2
	1.4s	210.90nm			5.7mb
Z	20s	15.55um			5.6Msz
			LR	57 55.20	
CVL	28.48	8	P	18 56.00	-3.1X
NA2	28.74	9	P	19 01.00	-0.3
FVM	28.80	349	P	19 01.60	-0.4
	2.0s	451.98nm			5.9mb
CCM	29.04	347	ePd	19 05.26	1.2
			eS	23 59.09	
			e	25 54.24	
ZOBO	30.00	149	eP	19 12.71	-0.9
			ec	19 19.82	
			S	24 18.00	
LPB	30.24	150	P	19 17.00	1.5
Z	24s	48.84um			6.1MszX
			S	24 10.00	
			LR	30 06.00	
SCP	31.33	8	ePd	19 25.57	1.1
			epPd	19 29.55	14kmX
CLE	31.67	3	iP	19 29.30	1.9
LVNJ	31.90	13	P	19 29.40	0.0
CCH	31.96	147	P	19 31.10	0.6
GMTN	32.10	13	eP	19 32.90	1.7
PNJ	32.13	13	iP	19 31.80	0.4
			i	20 50.40	
TBR	32.34	13	P	19 32.00	-1.2
TXNY	32.38	13	iP	19 34.10	0.5
ALO	32.69	324	ePc	19 35.30	-1.3
	1.1s	37.97nm			5.2mb
Z	19s	13.19um			5.7Msz
			ePP	20 51.00	
ANMO	32.69	324	P	19 35.40	-1.2
	1.2s	50.78nm			5.3mb
Z	20s	12.77um			5.6Msz
DLA	33.03	3	P	19 40.30	1.0
LDN	33.23	3	P	19 42.05	1.0
ELF	33.38	3	P	19 43.15	0.9
SIV	33.87	139	P	19 45.00	-1.9
GLD	35.59	331	P	20 00.00	-1.6
	1.5s	171.88nm			5.7mb
Z	20s	24.00um			6.0Msz
ANT	35.62	159	eP	20 01.50	-0.3
GOL	35.63	330	P	19 59.40	-2.6X
Z	20s	18.00um			5.8Msz
GLA	37.01	314	iP	20 14.00	0.6
BAR	38.16	312	eP	20 25.00	1.9
TPC	38.42	314	eP	20 25.00	-0.4
MSU	38.48	323	P	20 25.60	-0.4
SLA	38.51	153	e(P)	20 26.20	0.0

24d 19h

RSSD	38.60	336 P	20	27.00	0.1	YKA	57.26	343 eP	22	47.90	-3.6X	RJF	79.67	46 eP	25	09.60	-1.5
Z	20s	21.02um			6.0Msz		1.0s	60.30nm			5.6mb		1.2s	77.35nm			5.6mb
PLM	38.63	313 eP	20	28.00	0.8	SIT	61.72	331 P	23	30.00	7.7X	Z	21s	12.25um			6.2Msz
RVR	39.31	313 eP	20	33.00	0.3		18s	16.67um			6.2Msz	CAF	80.08	46 eP	25	12.10	-1.3
GSC	39.58	315 ePc	20	35.91	0.9	GDH	62.53	12 ePc	23	26.84	-0.7		1.2s	74.40nm			5.5mb
		epPd	20	40.38	15kmX		0.9s	31.93nm			5.5mb	TCF	80.09	45 eP	25	11.60	-1.8
		eS	26	44.87				ec	23	29.82			1.1s	45.20nm			5.4mb
MWC	39.92	313 eP	20	40.00	2.0			ed	23	32.97		MAF	80.34	45 eP	25	13.00	-1.7
PAS	39.97	313 eP	20	39.00	0.9			e	27	20.00			1.1s	53.70nm			5.5mb
		epP	20	45.00	20kmX			i	31	55.00		BGF	80.51	44 eP	25	13.90	-1.7
		esP	21	25.00		INK	66.95	342 eP	23	53.50	-2.7X		1.3s	66.80nm			5.5mb
		ePcP	22	19.00			1.1s	211.00nm			6.2mb	AVF	80.84	44 eP	25	15.30	-2.0
		ePP	22	46.00				pP	24	06.00	43kmX		1.2s	50.60nm			5.4mb
		ePPP	23	23.00		RUV	67.95	249 iP	24	05.30	2.0	SSF	80.93	44 eP	25	15.70	-2.1
		ePcS	26	26.00			1.2s	45.00nm			5.5mb		1.2s	44.65nm			5.4mb
		eS	27	08.00		TPT	68.11	250 iP	24	06.40	2.1	LOR	81.15	44 eP	25	17.00	-1.9
		eLg	30	29.00			1.2s	45.00nm			5.5mb		1.2s	56.55nm			5.5mb
		eLR	32	48.00		VAH	68.19	249 iP	24	07.00	2.2	Z	18s	15.25um			6.4Msz
SBB	39.98	314 eP	20	40.00	1.6		1.2s	40.00nm			5.5mb	SNF	81.17	40 P	25	20.30	1.4
BW06	40.02	330 P	20	37.00	-1.7	PMO	68.37	250 iP	24	08.20	2.3	SMF	81.19	44 eP	25	17.20	-2.0
	1.2s	50.23nm			5.1mb		1.2s	70.00nm			5.7mb		1.1s	34.20nm			5.3mb
CLC	40.40	315 eP	20	42.00	0.2	KLU	68.50	333 P	24	04.00	-2.1	UCC	81.19	40 P	25	22.00	3.0
ISA	40.93	315 eP	20	49.00	2.9X	TOA	68.82	333 eP	24	08.30	0.2			S	35	40.00	
SBC	41.23	312 ePc	20	49.09	0.6	PMR	69.98	332 eP	24	14.40	-0.7	LBF	81.26	44 eP	25	17.40	-2.1
		epPd	20	53.56	15kmX	FBA	70.46	336 eP	24	16.70	-1.3		1.5s	44.40nm			5.3mb
		eS	27	01.77		PAE	70.69	247 eP	24	21.00	0.8	DOU	81.40	41 P	25	19.00	-1.1
TNP	41.37	319 P	20	50.00	0.1		1.2s	80.00nm			5.7mb	Z	18s	5.90um			6.0Msz
	1.3s	71.43nm			5.2mb	PDB	71.94	330 P	24	24.00	-3.0X			S	35	37.00	
SYN	41.46	312 eP	20	53.00	2.4X	PTO	72.31	50 eP	24	29.30	-0.2	KBS	81.56	11 eP	25	24.00	3.5X
BONR	42.02	318 P	20	56.80	1.5			eS	33	56.00		DBN	81.60	39 eP	25	32.00	10.9X
PHAM	42.38	314 P	20	58.60	0.6	SVW	72.90	331 eP	24	30.70	-2.0			eS	35	36.00	
FRI	42.46	316 eP	20	57.80	-0.8	AVE	73.13	58 iP	24	34.50	-0.1	SSB	81.80	45 P	25	22.81	0.4
		ePcP	22	53.60				i	24	51.50		ENN	82.19	40 eP	25	24.50	0.3
PR1	42.72	314 eP	21	02.80	2.0	IMA	73.15	336 eP	24	33.30	-0.9		1.0s	42.00nm			5.5mb
		ePcP	22	54.40			1.2s	50.20nm			5.5mb			e	25	34.50	
PRS	43.31	314 e(P)	21	04.20	-1.3	TTA	73.43	333 eP	24	34.50	-1.3	MEM	82.25	40 Pc	25	25.30	0.8
		ePcP	22	56.00		CNIL	74.22	55 eP	24	45.00	4.2X	WIT	82.44	38 eP	25	27.00	1.6
CMB	43.46	316 ePc	21	05.47	-1.3	GIBL	74.30	54 eP	24	37.50	-3.8X	WTS	82.61	39 eP	25	26.00	-0.3
		epPd	21	09.28	13kmX	PLAT	74.46	55 eP	24	44.50	2.2		1.0s	90.00nm			5.9mb
		ePcP	22	56.20		LIJA	74.73	54 eP	24	48.00	4.1X			e	25	37.00	
LRM	43.66	331 eP	21	07.40	-1.1	IFR	75.04	58 iPc	24	47.50	1.6	HAU	82.76	43 eP	25	25.80	-1.5
MHC	43.98	315 eP	21	11.00	-0.1			i	24	50.00			1.2s	53.55nm			5.6mb
ROCH	44.12	165 eP	21	13.00	0.7	MAL	75.54	55 iPd	24	50.00	1.6	Z	21s	10.75um			6.2Msz
PEL	44.36	165 iPd	21	16.50	2.4X			iS	34	36.00		CDR	82.84	47 ePd	25	28.30	0.5
	1.1s	202.53nm			5.9mb			iPS	35	24.00		BNS	82.95	40 ePd	25	28.30	0.1
MDZ	44.63	162 i(P)	21	17.80	1.5	TOL	75.76	51 ePd	24	49.29	-0.4		1.6s	1991.00nm			7.0mb X
BKS	44.65	315 eP	21	18.80	2.4X		1.8s	454.55nm			6.2mb	BSF	83.07	43 eP	25	27.20	-1.8
	1.4s	69.00nm			5.4mb			ePP	27	36.00			1.1s	48.85nm			5.6mb
Z	20s	31.00um			6.2Msz			eS	34	34.77		LRG	83.30	47 eP	25	29.30	-0.8
N	20s	33.00um						iPS	35	20.00			1.1s	34.20nm			5.5mb
E	20s	32.00um						iSS	39	31.00		Z	21s	10.50um			6.2Msz
		e	21	32.00		EKA	76.57	35 P	24	56.00	2.2		1.0s	16.00nm			5.2mb
		eS	27	36.00			1.5s	161.80nm			5.9mb	ABH	83.32	41 eP	25	29.73	-0.4
		eLO	31	08.00		LKO	76.64	82 P	24	53.64	-1.4	CDF	83.32	42 eP	25	28.80	-1.5
		eLR	34	24.00			1.3s	254.00nm			6.1mb		1.3s	65.00nm			5.7mb
SAN	44.66	165 eP	21	17.00	0.5	EHUE	76.95	53 eP	24	58.20	1.7	LPG	83.33	45 eP	25	30.00	-0.6
PPD	44.66	135 eP	21	14.50	-2.1	TIC	77.61	85 P	24	59.90	-0.5		1.2s	26.80nm			5.3mb
		e	21	24.10			1.5s	85.00nm			5.6mb	BNI	83.33	46 P	25	31.64	1.2
TACH	44.78	165 eP	21	18.00	0.6	LIC	77.66	86 P	25	00.56	-0.1		1.7s	48.50nm			5.4mb
PCH	44.86	165 eP	21	18.50	0.3		1.4s	169.00nm			5.9mb	EMS	83.38	44 ePc	25	31.70	0.9
LNK	44.95	166 eP	21	18.50	-0.2	LPF	77.81	43 eP	24	59.50	-1.3	LMR	83.42	47 eP	25	29.70	-1.0
ORV	44.98	318 P	21	16.90	-2.1		1.1s	68.35nm			5.6mb		1.2s	56.55nm			5.6mb
LBFM	46.17	320 P	21	27.20	-1.4	GRR	77.92	43 eP	25	00.20	-1.2	RRL	83.42	46 P	25	29.97	-1.1
SOB1	46.42	113 eP	21	30.50	-0.2		1.2s	133.90nm			5.9mb	FRF	83.49	47 eP	25	30.00	-1.1
		e	21	39.70		KIC	77.92	86 P	25	01.56	-0.6		1.0s	44.00nm			5.6mb
SES	46.48	336 eP	21	31.00	0.3		1.3s	142.50nm			5.9mb	LSD	83.61	45 P	25	32.53	0.5
	1.6s	197.00nm			5.9mb	FLN	78.16	42 eP	25	01.70	-1.1	PZZ	83.70	46 P	25	32.12	-0.2
		pP	21	42.00	38kmX		1.2s	101.15nm			5.8mb	DIX	83.71	44 ePc	25	33.90	1.4
SCH	46.88	13 ePc	21	31.80	-2.0		Z	20s	15.50um		6.3Msz	RSP	83.72	45 P	25	32.02	-0.4
	0.9s	81.00nm			5.8mb	LDF	78.41	42 eP	25	02.80	-1.3	DOI	83.80	46 P	25	34.10	1.3
FFC	47.21	346 eP	21	34.50	-1.9		1.1s	85.45nm			5.7mb	NB2	83.84	29 P	25	32.00	-0.6
	0.9s	80.00nm			5.8mb	MFF	78.45	44 eP	25	03.30	-1.1		1.3s	97.40nm			5.9mb
NEW	47.65	330 P	21	38.60	-1.4		1.1s	61.05nm			5.6mb	STV	83.89	46 P	25	32.02	-1.2
	1.2s	53.03nm			5.5mb	EGRA	78.51	49 eP	25	08.40	3.6X	ENR	83.96	46 P	25	32.33	-1.3
VAO	48.36	133 eP	21	43.60	-2.3	BTH	78.55	48 eP	25	05.00	0.0	SBF	84.02	47 eP	25	32.80	-1.1
		e	21	51.00				esP	25	18.00			0.9s	45.85nm			5.7mb
		e	22	03.80				sPcP	25	26.00		MMK	84.10	44 ePc	25	36.30	1.8
CAI	48.95	107 eP	21	46.30	-4.2X			S	35	05.00		ZLA	84.19	43 ePc	25	35.50	0.9
PDCR	49.34	116 eP	21	50.10	-3.4X			eSKS	36	02.00		SLE	84.22	43 ePc	25	35.30	0.5
EDM	49.57	337 eP	21	53.00	-1.8	EPF	78.95	48 eP	25	06.60	-0.7	ROB	84.27	46 P	25	33.76	-1.4
PNT	49.58	330 ePd	21	55.00	0.1		1.5s	148.85nm			5.8mb	FIN	84.52	46 P	25	35.71	-0.6
	1.0s	89.00nm			5.7mb	LFF	79.14	46 eP	25	07.00	-1.2	CKI	84.54	46 P	25	36.40	0.0
BMA	50.26	130 eP	22	02.00	1.5		1.2s	74.40nm			5.6mb	LLS	84.69	44 ePc	25	38.80	1.5
LPA	50.58	153 eP-	22	02.00	-0.6	LPO	79.47	46 eP	25	08.80	-1.2	PCP	84.71	46 P	25	35.61	-1.7
	Z	19s	15.28um		6.0Msz		1.1s	75.70nm			5.6mb	VDL	85.07	44 ePc	25	40.70	1.5
		eS	29	16.00		LSF	79.62	45 eP	25	09.20	-1.6	HFS	85.21	30 eP	25	29.20	-10.2X
FRB	54.96	8 eP	22	32.00	-2.9X					</							

	0.7s	17.70nm			KMR	87.90	42 eP	25 50.00	-2.8X	HHC	127.77	346 ePKP	32 10.80	1.3
Z	17s	6.34um		6.1MsZ			i	25 54.30		Z	22s	9.70um		6.4MsZ
	e		25 39.40		ARV	88.02	46 P	25 55.79	2.3	N	19s	4.00um		
	e		25 44.20			1.0s	22.40nm		5.4mb	E	20s	4.40um		
	e		25 48.20		MNS	88.05	47 P	25 55.58	1.9			PP	34 15.00	
	LR		51 55.00			0.6s	5.40nm		5.1mb			SKS	39 15.20	
BOB	85.32	46 P	25 41.40	1.0	TRI	88.14	44 eP	25 55.70	1.7	RMO	127.96	244 ePKP	32 12.00	1.8
PGF	85.34	48 eP	25 39.20	-1.4			e	36 40.00		BTO	128.38	347 ePKP	32 10.00	-0.7
	1.2s	68.45nm		5.7mb			eLR	52 30.00		N	20s	8.10um		
OSS	85.49	44 ePc	25 42.70	1.3	VOY	88.17	44 eP	25 55.50	1.2	E	21s	5.00um		
GRFO	85.70	40 ePd	25 41.72	-0.4	CEY	88.59	44 eP	25 57.00	0.7	TIA	130.33	338 ePKP	32 14.60	0.2
		esPc	25 46.77		LJU	88.60	44 ePc	25 58.00	1.7	Z	20s	5.80um		6.3MsZ
GRF	85.70	40 ePc	25 42.10	0.0			e	26 00.00		N	18s	4.30um		
	1.2s	103.00nm		5.9mb			eS	36 28.00		TIY	130.49	343 ePKP	32 15.00	0.3
Z	19s	10.00um		6.2MsZ			e	36 52.00		Z	18s	6.60um		6.4MsZ
MOX	85.79	39 iPc	25 43.50	1.0	SOD	88.65	21 eP	25 55.00	-1.1	E	18s	5.32um		
	2.0s	225.00nm		6.0mb	KSP		39 iP	25 57.00	0.6			SKS	39 20.00	
Z	20s	7.50um		6.1MsZ			e	29 31.00		CTA	130.98	252 iPKPd	32 16.50	0.4
N	19s	3.50um						25 59.80	1.4		1.2s	31.25nm		
E	20s	6.60um			SDI	89.01	48 P	26 00.70	1.5	GTA	131.00	357 PKP	32 16.00	0.2
SAL	85.93	45 P	25 44.72	1.4	VBY	89.21	44 e(P)	26 00.00	0.5		6.0s	320.00nm		
	0.1s	79.10nm		6.9mb	VKA	89.28	41 e(P)	26 00.00		Z	19s	9.90um		6.5MsZ
SOTA	86.12	43 i(P)	25 43.80	-0.6		Z	17s	3.20um	5.8MsZ	N	18s	8.10um		
	1.8s	134.00nm		5.8mb			LR	07 00.00				PP	34 36.00	
		i	25 45.30		PTJ	89.60	44 eP	26 01.90	0.8			SS	52 00.00	
		i	26 10.30		ZAG	89.64	44 eP	26 02.00	0.9	QUE	131.19	35 ePKP	32 17.50	1.0
BDI	86.24	46 P	25 45.70	0.7	ZST	89.81	41 eP	26 02.70	0.8	STK	132.86	235 ePKP	32 23.40	4.1X
	1.0s	75.50nm		5.8mb	FAI	89.83	52 P	26 05.63	3.4X		1.0s	3.60nm		
MME	86.29	46 P	25 46.50	1.0		0.9s	26.80nm		5.5mb	SSE	132.99	331 PKP	32 20.00	0.4
WTTA	86.40	43 i(P)	25 44.00	-1.9	NUR	90.35	28 iP	26 03.60	-0.5		6.0s	400.00nm		
	1.9s	182.00nm		6.0mb		0.8s	26.40nm		5.6mb	Z	20s	6.00um		6.3MsZ
		i	25 46.80				e	36 36.00		N	18s	3.50um		
		i	26 01.20				e	38 08.00		E	16s	2.60um		
		i	26 07.20		KAF	90.51	26 iP	26 03.90	-0.9	NJ2	133.26	334 ePKP	32 20.00	0.0
BRN	86.43	38 eP	25 47.00	1.4		1.0s	23.80nm		5.4mb	Z	18s	1.90um		5.9MsZ
CLL	86.53	39 eP	25 45.00	-1.1	SRO	90.69	41 iP	26 07.40	1.4	N	15s	1.50um		
	1.5s	170.00nm		6.0mb	UZD	91.19	42 e(P)	26 09.00	0.7	E	15s	0.90um		
Z	18s	3.50um		5.8MsZ	SPC	91.55	40 eP	26 11.20	1.0	LZH	133.89	352 ePKP	32 21.00	-0.4
		eS	36 28.00		PSZ	91.69	41 iP	26 13.00	2.3	Z	22s	8.27um		6.4MsZ
CTI	86.63	44 P	25 47.00	0.1	BEO	92.94	44 eP	26 17.50	1.1	N	18s	6.32um		
WET	86.87	41 eP	25 47.50	-0.4	SKO	94.46	46 eP	26 22.20	-1.3			ePP	34 50.00	
	Z	18s	9.00um	6.2MsZ		2.0s	182.00nm		6.1mb			PKS	35 54.00	
PGD	87.08	46 P	25 48.70	-0.5			i	26 24.50		ND1	137.51	25 ePKP	32 28.00	-0.3
BHG	87.14	42 iPc	25 50.50	1.3			iSKS	36 56.50		CD2	138.98	350 PKP	32 26.40	-4.6X
SFI	87.16	46 P	25 51.00	1.7			iS	37 37.00		Z	20s	4.80um		6.2MsZ
VVI	87.17	44 P	25 51.77	2.3			iS	38 00.00		N	18s	6.30um		
UPP	87.19	30 iP	25 47.80	-1.3			i	38 46.00		LSA	140.45	7 PKP	32 34.00	-0.2
		iSKS	36 26.00				i	42 24.50		Z	34s	16.90um		6.6MsZ
		iS	37 22.00				i	43 24.00		KKN	141.15	16 PKP	32 28.28	-6.9X
BRG	87.20	39 iP	25 49.40	0.0			iSS	44 48.00		ASPA	141.71	244 ePKP	32 33.60	-2.5X
	2.0s	260.00nm		6.1mb			iSSS	48 19.00			0.9s	23.00nm		
Z	20s	5.00um		5.9MsZ	CMP	95.88	42 ePc	26 30.00	0.0	WB2	142.10	250 ePKP	32 35.40	-1.4
N	20s	3.00um			MLR	96.40	42 ePc	26 33.00	0.5		0.8s	20.00nm		
E	20s	3.00um					e	29 50.00		WRA	142.11	250 PKP	32 35.00	-1.8
		i	26 15.20		OBN	98.44	30 eP	26 40.40	-0.8		0.8s	20.80nm		
		eSKS	36 28.00			2.0s	128.00nm		6.2mb	GYA	142.68	345 PKP	32 34.60	-3.2X
		iS	36 44.00		Z	19s	5.00um		6.0MsZ	Z	28s	2.70um		5.9MsZ
CRE	87.29	46 P	25 52.20	2.1	N	18s	3.60um			N	20s	5.30um		
FVI	87.30	43 P	25 48.50	-1.4	E	18s	3.40um			E	20s	1.80um		
KHC	87.32	41 iP	25 49.50	-0.6			ePP	30 37.00				SS	54 20.00	
	1.5s	75.50nm		5.7mb			(PPP)	33 36.00		GZH	143.44	333 PKP	32 38.60	-0.3
Z	18s	6.70um		6.1MsZ			eSKS	37 18.00		Z	21s	3.20um		6.1MsZ
N	16s	2.30um					(S)	39 30.00				ePP	35 49.00	
E	18s	6.50um					ePPS	45 28.00				SS	54 28.00	
		e	26 08.50				eSSS	48 40.00		HKC	143.74	332 ePKP	32 42.00	2.5X
		S	36 38.80		SPA	99.68	180 eP	26 55.00	8.2X	POO	144.11	39 iPKPc	32 36.60	-3.7X
KBA	87.58	43 i(P)	25 48.00	-3.6X		1.0s	9.50nm		5.3mb		1.0s	50.00nm		
	1.6s	185.00nm		6.1mb	YAK	103.93	345 ePdiff	27 07.10	1.5X	SHL	144.62	7 ePKP	32 38.00	-3.2X
		i	25 51.00				iPP	31 23.00				eS	36 21.00	
		i	25 52.40				ePSP	31 37.00		BAG	144.73	317 ePKP	32 39.20	-2.3
		i	26 10.70				eSKS	37 48.00		KMI	144.82	350 ePKPc	32 41.57	0.0
		i	26 17.60				eS	38 27.00			Z	20s	5.70um	6.3MsZ
		i	29 13.10				eSS	45 35.00			N	18s	2.20um	
		i	29 22.00							E	18s	3.10um		
PRU	87.75	40 P	25 51.50	-0.6	LSZ	113.32	102 iPKP	31 45.60	3.1X			ec	32 45.54	
	1.9s	122.40nm		5.9mb	PTZ	116.29	101 iPKP	31 52.50	4.3X	DAV	146.54	299 ePKP	32 46.00	1.6X
Z	18s	10.40um		6.3MsZ	MAT	119.53	322 ePKP	31 57.00	3.3X	HYB	147.72	33 ePKP	32 46.00	-0.2
N	19s	1.40um				0.9s	9.24nm				1.0s	120.00nm		
E	18s	7.60um			MAIO	122.48	35 ePKP	32 03.00	3.6X	OIZ	148.52	335 PKP	32 49.00	1.5
		e	25 52.80		WMO	126.10	8 PKP	32 06.00	-0.2		Z	20s	3.60um	
		e	26 56.50			Z	24s	11.10um	6.5MsZ	COOL	148.88	224 ePKP	32 54.00	6.2X
		PP	29 13.50			N	22s	13.70um		GBA	150.08	40 PKPc	32 49.10	-0.8
		S	36 42.00					PP	34 03.00		0.3s	3.10nm		
KEV	87.86	19 eP	25 54.00	1.8	BJI	127.22	341 ePKPc	32 08.81	0.5	CHG	151.52	355 ePKPd	32 52.50	0.5
	Z	18s	7.90um	6.2MsZ		N	17s	3.53um						
		e	36 18.00			E	17s	3.17um						
		LR	07 06.00											

24d 19h

1.5s 47.22nm
 LOE 152.53 349 ePKP 32 56.00 2.5X
 KOD 152.58 44 ePKP 32 56.10 2.1
 BDT 153.07 355 ePKP 32 54.90 0.7
 TSM 154.40 302 ePKPc 32 59.00 2.8X
 NST 154.49 352 ePKP 33 08.00 11.8X
 KHT 155.54 355 ePKP 32 58.00 0.3
 PSI 167.41 349 ePKPc 33 15.50 5.6X
 S.D. = 1.2 on 282 of 337 obs.

* APR 24, 1991 19h 30m 49.89±0.93s
 38.091 N ±18.2km 67.731 E ±12.9km
 DEPTH = 33.0km (normol)
 3.6mb (3 obs.)
 SOUTHEASTERN UZBEK SSR (714)

MAIO 6.81 257 eP 32 30.00 -0.2
 eS 34 08.00
 KHT 35.81 122 eP 37 48.50 0.3
 HFS 40.20 321 eP 38 25.00 0.5
 0.8s 1.40nm 3.8mb
 e 38 27.70
 e 38 31.50
 e 38 36.00

NB2 41.54 322 P 38 35.90 0.4
 0.4s 0.50nm 3.6mb
 SLR 73.49 217 iPd 42 30.00 8.8X
 1.0s 10.00nm 4.8mb X
 Z 17s 8.16um 6.1mszX

YKA 79.74 1 eP 42 54.50 -1.0
 0.8s 0.50nm 3.6mb
 S.D. = 0.9 on 5 of 6 obs.

* APR 24, 1991 20h 23m 17.58±0.84s
 5.069 N ±14.2km 125.302 E ±21.6km
 DEPTH = 130.0km (geophysicist)
 4.6mb (5 obs.)
 MINDANAO, PHILIPPINE ISLANDS (259)

MTN 18.72 162 eP 27 30.50 1.6
 0.3s 61.00nm 5.4mb
 WB2 26.40 161 iPd 28 43.00 -0.9
 0.5s 7.80nm 4.6mb

CHG 29.12 300 eP 29 10.00 1.5
 ASPA 29.77 164 eP 29 13.40 -0.7
 0.4s 9.70nm 4.9mb
 WARB 31.09 178 eP 29 25.50 -0.2
 MUN 37.84 193 eP 30 22.90 -0.4
 STK 39.89 158 iPc 30 40.70 0.5
 0.8s 4.10nm 4.2mb

KKN 44.23 305 P 31 16.00 0.0
 GBA 47.91 284 Pd 31 43.70 -1.1
 0.5s 3.00nm 4.3mb
 YAK 56.92 2 iPc 32 50.60 -0.4
 S.D. = 1.1 on 10 of 10 obs.

* APR 24, 1991 20h 53m 09.66±1.69s
 5.474 S ±8.8km 152.875 E ±14.0km
 DEPTH = 44.4 ±15.3 km
 4.2mb (5 obs.)
 NEW BRITAIN REGION (192)

RAB 1.45 331 iPc 53 34.10 0.2
 iS 53 58.00
 PMG 6.89 235 eP 54 50.50 -0.2
 QIS 19.77 219 iPd 57 37.80 -1.3
 0.6s 10.00nm 4.3mb

DZM 21.09 143 iPc 57 53.00 0.2
 WB2 23.05 230 iPd 58 12.90 0.7
 0.6s 6.40nm 4.3mb
 ASPA 25.71 223 iPc 58 38.60 0.9
 1.7s 11.40nm 4.1mb

KKN 73.01 301 P 04 37.18 -0.3
 0.6s 8.00nm 4.8mb
 INK 89.05 21 ePd 06 00.70 -0.3
 YKA 95.98 28 eP 06 32.50 -0.6
 0.8s 0.30nm 3.9mb

IFR 145.41 327 iPKP 12 46.00 0.8
 S.D. = 0.8 on 10 of 10 obs.

* APR 24, 1991 21h 09m 20.16±1.54s
 2.677 N ±8.0km 79.852 W ±13.4km
 DEPTH = 8.1 ±5.1 km
 3.8mb (1 obs.)
 SOUTH OF PANAMA (83)

CUMC 2.61 131 ePc 10 02.52 -1.3

YANA 3.05 155 Pd 10 09.80 -0.3
 S 10 41.20
 ANCC 3.10 74 iPc 10 10.24 0.0
 QUR 3.12 155 eP 10 10.10 -0.9
 eS 10 44.50

HOQC 3.31 76 iPc 10 13.19 -0.4
 CLMC 3.49 70 eP 10 15.92 -0.1
 PURC 3.50 96 iPc 10 17.30 0.8
 SILC 3.51 90 eP 10 17.04 0.6
 BUGC 3.79 71 ePc 10 20.18 -0.1
 HOBC 4.07 66 eP 10 23.62 -0.5

ZOBO 22.11 149 P 14 20.20 1.7
 LPB 22.34 149 eP 14 03.00 -17.6X
 YKA 65.03 343 eP 20 02.50 -0.3
 0.8s 0.50nm 3.8mb
 S.D. = 0.9 on 12 of 13 obs.

* APR 24, 1991 21h 44m 40.10±0.80s
 47.118 N ±13.1km 154.675 E ±13.6km
 DEPTH = 33.0km (normol)
 4.7mb (18 obs.)
 KURIL ISLANDS (221)

KUSJ 8.11 244 P 46 36.70 -1.7
 eS 48 04.10
 ASAJ 8.95 255 P 46 52.20 2.2
 HOQJ 9.38 244 P 46 55.60 -0.3
 eS 48 36.30

MRRJ 10.75 249 eP 47 12.90 -1.7
 MAT 16.16 235 (P) 48 25.00 -1.3
 CN2 20.71 272 eP 49 18.00 -1.9
 XAN 36.61 266 eP 51 45.50 0.5
 GTA 39.97 280 eP 52 12.80 -0.3

INK 40.77 33 eP 52 17.00 -2.1
 CD2 41.97 266 P 52 30.80 1.3
 GYA 42.84 259 P 52 38.60 1.9
 WMO 45.79 292 eP 53 00.50 0.3
 YKA 49.99 37 eP 53 37.50 4.9X
 0.7s 1.60nm 4.2mb

LSA 51.32 274 P 53 45.50 1.8
 CHG 53.24 258 eP 54 02.10 4.4X
 KKN 56.52 276 P 54 21.98 0.3
 0.8s 12.00nm 5.0mb

KEV 57.35 341 eP 54 43.00 16.2X
 SOD 59.29 339 eP 54 49.00 8.6X
 FFC 59.77 41 eP 54 41.00 -2.8X
 0.9s 10.00nm 4.9mb

KAF 63.55 336 iP 55 03.70 -5.4X
 NUR 65.33 335 iP 55 13.60 -7.0X
 i 55 18.00
 UPP 67.77 338 iP 55 33.50 -2.6
 HYB 68.06 272 eP 55 38.50 -0.1

NB2 68.22 342 P 55 36.80 -2.2
 0.9s 9.30nm 4.9mb
 HFS 68.48 340 eP 55 38.20 -2.4
 0.8s 11.60nm 5.0mb

e 55 42.90
 e 55 52.40
 WB2 69.22 200 iPc 55 45.30 -0.2
 0.8s 7.00nm 4.8mb

WRA 69.22 200 P 55 45.00 -0.5
 0.8s 6.80nm 4.8mb
 GBA 71.49 270 P 56 05.00 5.4X
 0.8s 2.10nm 4.2mb

ASPA 72.91 200 iPc 56 08.80 1.1
 1.4s 17.80nm 4.9mb
 CLL 76.56 336 eP 56 26.00 -2.4
 PRU 77.32 335 eP 56 33.00 0.4

KHC 78.36 335 P 56 39.00 0.6
 GRF 78.51 337 eP 56 40.00 0.8
 KBA 80.28 334 i(P) 56 44.70 -4.3X
 1.0s 11.00nm 4.8mb

i 56 46.70
 i 56 48.00
 i 56 50.50
 LOR 82.60 340 eP 57 00.70 -0.2
 0.9s 4.10nm 4.5mb

SSF 82.87 341 eP 57 02.20 -0.1
 0.7s 2.75nm 4.5mb
 AVF 83.16 341 eP 57 04.20 0.4
 1.0s 5.00nm 4.6mb
 SMF 83.19 340 eP 57 05.20 1.2
 0.9s 8.20nm 4.8mb

BGF 83.50 341 eP 57 06.80 1.3
 0.6s 2.70nm 4.6mb
 LPL 83.54 338 eP 57 06.80 0.7
 0.9s 6.55nm 4.8mb

LPG 83.56 338 eP 57 07.00 0.8
 0.9s 6.55nm 4.8mb
 MAF 83.88 341 eP 57 08.40 0.9
 TCF 83.90 341 eP 57 08.70 1.1
 0.9s 3.30nm 4.5mb

LSF 84.08 342 eP 57 09.00 0.5
 RJF 84.98 341 eP 57 14.00 1.0
 LPO 85.65 341 eP 57 17.70 1.3
 S.D. = 1.4 on 37 of 46 obs.

APR 24, 1991 22h 12m 02.91±1.26s
 34.876 N ±8.6km 138.136 E ±7.0km
 DEPTH = 41.1 ±10.2 km
 4.7mb (16 obs.) 4.0msz (1 obs.)
 NEAR S. COAST OF HONSHU, JAPAN (230)
 Felt (IV JMA) at Ajiro and (II JMA) at Homomatsu, Kofu, Mishima and Shizuoka.

IIDJ 0.63 343 iPd 12 14.10 -1.4
 S 12 20.90
 CHJJ 1.36 31 P 12 25.50 -0.3
 S 12 41.10

MAT 1.66 2 eP 12 30.00 -0.1
 eS 12 51.00
 MTMJ 1.73 351 P 12 31.00 -0.1
 S 12 53.50
 SHK 4.51 267 eP 13 11.40 0.8

MDJ 11.73 329 eP 14 53.00 2.4
 CN2 13.25 316 Pc 15 12.00 1.3
 Z 18s 1.20um
 N 14s 0.40um
 E 14s 0.40um

ePP 15 18.40
 SSE 14.72 260 P 15 36.40 6.4X
 1.0s 12.00nm 4.2mb
 Z 20s 0.50um 3.5msz
 E 12s 0.60um

NJ2 16.34 266 eP 15 56.80 6.0X
 BJI 18.17 293 eP 16 15.00 1.4
 1.5s 58.00nm 4.5mb
 WHN 20.46 264 Pc 16 42.00 2.4
 1.2s 100.00nm 5.0mb

Z 14s 0.50um 4.0mszX
 PP 16 51.00
 TIY 20.89 285 eP 16 42.00 -2.1
 Z 14s 0.60um 4.1mszX
 N 14s 0.55um

HHC 21.77 294 eP 16 51.20 -1.7
 XAN 24.07 276 eP 17 15.30 -0.1
 YAK 27.68 351 eP 17 45.80 -2.9
 LZH 27.87 283 eP 17 49.50 -1.4
 2.0s 32.00nm 4.6mb

Z 20s 0.39um 4.0msz
 GYA 28.25 261 P 17 54.40 0.0
 CD2 29.05 272 eP 18 00.80 -0.7
 CHG 38.18 256 eP 19 21.60 1.2

WMO 39.49 299 P 19 31.80 0.7
 KKN 45.27 276 P 20 00.00 -18.6X
 SVW 48.82 36 P 20 46.70 0.9
 0.8s 13.79nm 5.0mb

RSO 50.23 37 P 20 56.40 -0.4
 FBA 52.33 31 P 21 12.00 -0.4
 0.7s 7.85nm 4.8mb
 GAR 53.23 296 eP 21 19.40 -0.2

WB2 54.63 184 eP 21 27.40 -2.4
 0.7s 1.60nm 4.2mb
 WRA 54.63 184 P 21 29.00 -0.8
 0.8s 8.90nm 4.8mb

OIS 55.14 178 iPd 21 33.70 0.2
 INK 57.50 26 eP 21 50.00 0.1
 ASPA 58.36 185 eP 21 56.40 0.1
 0.9s 8.10nm 4.8mb

KEV 64.50 339 eP 22 54.00 16.7X
 YKA 66.99 29 eP 22 52.50 -0.8
 0.8s 1.60nm 4.1mb
 KAF 68.99 332 iP 23 04.40 -1.3

NUR 70.58 331 eP 23 15.00 -0.4
 NEW 73.52 42 P 23 33.60 0.4
 1.0s 9.00nm 4.7mb
 HFS 74.93 335 eP 23 40.00 -1.0
 0.7s 5.30nm 4.6mb

e 23 47.20
 NB2 75.12 336 P 23 41.40 -0.8
 0.9s 7.10nm 4.6mb
 ORV 75.72 52 P 23 46.20 0.2
 FFC 76.94 31 eP 23 53.00 0.5

0.7s 7.00nm 4.8mb			(S) 56 59.00			WEL 12.79 207 eP 17 52.00 1.6		
CMB 77.29 52 P	23 55.50	0.7	OXX 1.80 59 iP	56 33.22	0.2	S 20 07.00		
LRM 77.54 42 eP	23 57.50	1.2	iS 56 51.58			KHZ 14.23 207 eP 18 05.40 -3.9X		
TNP 79.31 51 P	24 07.20	1.1	III 2.47 334 iP	56 43.20	0.6	DZM 16.33 295 iPd 18 41.30 4.9X		
0.8s 5.59nm 4.6mb			iS 57 09.69			BRS 26.03 268 iPc 20 22.00 3.1X		
FRB 79.45 12 eP	24 06.00	0.0	IIIT 2.86 0 (P)	56 48.50	0.3	e (pP) 20 25.00 11kmX		
CLL 81.60 329 iPc	24 17.40	-0.2	(S) 57 24.84			20 41.50		
1.1s 12.00nm 4.8mb			PPM 2.92 354 (P)	56 49.50	0.3	COO 26.26 261 iPd 20 24.90 3.9X		
GRF 83.56 328 eP	24 28.80	0.9	IIISM 2.97 18 iP	56 49.62	0.2	RMO 29.73 269 iPd 20 54.00 1.6		
PV09 84.05 47 P	24 31.80	0.8	(S) 57 25.15			0.6s 63.00nm 5.5mb		
LKO 124.06 315 Pd diff	27 50.22	17.5X	IIA 3.01 354 (P)	56 50.50	0.6	CTA 34.03 278 iPc 21 31.00 0.9		
ZOBO 150.07 58 PKP	31 49.00	2.4	(S) 57 35.23			0.9s 67.23nm 5.6mb		
S.D. = 1.3 on 43 of 48 obs.			UNM 3.27 346 (P)	57 01.30	7.2X	QIS 39.58 274 iPd 22 17.40 0.6		
? APR 24, 1991 22h 15m 22.79 ± 2.61s			(S) 57 43.80			ASPA 43.43 266 iPc 22 48.30 0.0		
12.558 N ± 28.9km 90.830 W ± 29.5km			LVVM 4.00 26 (P)	57 02.30	-1.7	0.6s 48.40nm 5.4mb		
DEPTH = 76.1 ± 22.5 km			MRX 4.47 323 (P)	57 17.87	7.1X	Z 21s 0.70um 4.5msz		
4.3mb (2 obs.)			(S) 58 03.50			WB2 44.37 272 iPd 22 55.60 -0.3		
OFF COAST OF CENTRAL AMERICA (76)			SCX 5.50 83 (P)	57 44.50	19.2X	0.6s 80.60nm 5.7mb		
TPX 2.72 329 (P) 16 05.50 0.5			CGX 6.03 307 (P)	58 14.00	40.9X	WRA 44.38 272 P 22 55.00 -1.0		
PPM 9.91 312 (P) 17 44.50 -0.6			ALQ 20.09 340 ePc	00 37.90	0.5	0.6s 79.20nm 5.7mb		
FFC 42.97 351 eP 23 16.00 0.2			0.9s 11.97nm 4.2mb			FORR 46.37 255 iPc 23 12.30 0.6		
0.6s 5.00nm 4.5mb			BLA 26.30 34 P	01 38.20	0.2	SBA 48.41 184 P 23 34.00 7.0X		
SCH 46.19 19 eP 23 41.00 -0.6			TNP 27.46 326 P	01 50.00	1.2	WARB 48.88 260 eP 23 30.50 -0.8		
YKA 52.68 346 eP 24 30.80 -0.5			0.9s 4.10nm 4.1mb			COOL 52.15 253 eP 23 55.80 -0.4		
0.8s 1.30nm 4.0mb			BW06 28.23 342 P	01 55.00	-0.7	BAL 55.89 252 eP 24 22.80 -0.7		
PDCR 57.03 114 eP 25 03.50 0.0			1.4s 8.88nm 4.3mb			MUN 55.90 250 eP 24 23.20 -0.3		
INK 62.14 343 eP 25 39.00 1.2			LRM 31.87 341 eP	02 29.30	1.3	MBL 56.47 263 eP 24 27.00 -0.8		
GBA 151.52 25 PKPd 35 16.60 12.6X			NEW 35.56 338 P	02 59.50	-0.1	NANU 59.63 260 eP 24 59.00 9.2X		
0.8s 4.00nm			1.0s 8.50nm 4.6mb			0.4s 5.00nm 5.0mb		
S.D. = 1.0 on 7 of 8 obs.			PNT 37.35 337 eP	03 16.00	1.3	SPA 60.12 180 iPd 24 53.20 0.2		
* APR 24, 1991 22h 34m 48.08 ± 0.79s			0.6s 7.00nm 4.7mb			1.0s 37.50nm 5.5mb		
36.099 N ± 8.1km 113.576 E ± 10.3km			FFC 38.61 357 iPc	03 25.10	0.0	i 25 23.30 125kmX		
DEPTH = 33.0km (normal)			0.6s 7.00nm 4.6mb			MAW 72.75 200 iPd 26 16.20 3.5X		
4.4mb (4 obs.)			ZOBO 43.88 136 P	04 10.00	0.5	MAT 78.12 325 (P) 26 42.00 -1.6		
EASTERN CHINA (664)			Z 20s 0.15um 3.9msz			1.0s 25.00nm 5.2mb		
ML 3.9 (BJI).			YKA 47.69 350 eP	04 37.00	-1.6	NVL 79.25 183 eP 26 49.00 -0.3		
TIY 1.85 331 iPg 35 16.00 -2.1			1.0s 2.90nm 4.3mb			i 27 08.00 70km		
TIA 2.87 87 Pnc 35 37.80 5.2X			SIV 48.70 129 eP	04 43.00	-4.0X	PRS 84.56 42 ePc 27 18.10 0.7		
Pg 35 44.30			FRB 51.80 16 eP	05 09.00	-1.0	IPM 84.78 278 ePc 27 18.70 -0.3		
Sg 36 23.40			INK 56.73 345 ePc	05 45.60	-0.5	0.9s 32.20nm 5.4mb		
XAN 4.34 243 Pn 35 55.00 1.6			SLKM 57.75 333 P	05 53.20	-0.3	PRI 84.85 43 ePc 27 19.90 0.9		
Sn 36 45.70			PMR 57.78 334 P	05 53.40	-0.2	PAS 85.02 46 eP 27 20.00 0.3		
Sg 37 02.50			0.7s 13.95nm 5.1mb			MHC 85.10 42 ePc 27 20.70 0.5		
BJI 4.44 27 Pn 35 55.50 0.7			RSO 58.86 332 P	06 01.30	-0.2	MWC 85.14 46 eP 27 20.00 -0.6		
Pg 36 04.00			FBA 58.91 338 P	06 01.10	-0.4	PLM 85.32 47 eP 27 22.00 0.5		
HHC 5.00 342 Pn 36 04.00 1.1			0.8s 12.07nm 5.1mb			PEC 85.49 47 P 27 21.70 -0.4		
Pg 36 11.00			SVW 60.41 332 P	06 10.80	-1.1	SBB 85.59 46 eP 27 23.00 0.3		
BTO 5.29 329 Pn 36 06.80 -0.2			0.7s 21.51nm 5.4mb			ISA 85.84 45 eP 27 24.00 0.1		
ePg 36 14.50			NB2 85.13 27 P	08 38.40	1.0	FRI 85.99 43 ePc 27 24.60 0.1		
Sn 37 02.40			1.1s 4.90nm 4.6mb			NJ2 86.24 310 Pc 27 26.20 0.4		
WHN 5.58 173 Pg 36 19.00 8.1X			EPF 85.32 47 eP	08 39.60	0.9	CMB 86.30 42 ePc 27 26.20 0.1		
LZH 7.88 273 ePn 36 44.00 0.6			0.7s 2.75nm 4.6mb			TPC 86.33 47 eP 27 27.00 0.7		
Sg 38 05.00			TCF 85.57 43 eP	08 39.90	0.0	GLA 86.44 48 eP 27 28.00 1.1		
SSE 8.07 126 eP 37 00.00 14.1X			0.9s 4.90nm 4.7mb			CLC 86.47 45 eP 27 27.00 0.0		
(Lg) 37 12.50			MAF 85.83 43 eP	08 41.20	0.1	GSC 86.63 46 eP 27 28.00 0.2		
CD2 9.69 241 P 37 07.00 -1.3			0.9s 8.20nm 5.0mb			ORV 86.71 40 eP 27 27.60 -0.4		
eS 38 53.00			BGF 85.90 43 eP	08 41.40	-0.1	TNP 88.19 43 P 27 35.50 0.1		
GTA 11.38 291 eP 37 27.00 -4.6X			0.8s 6.05nm 4.9mb			0.7s 9.44nm 5.1mb		
MAT 19.84 81 eP 39 36.00 16.9X			AVF 86.16 42 eP	08 42.20	-0.5	MDJ 88.50 325 eP 27 37.00 0.6		
eS 39 54.00			1.0s 7.00nm 4.8mb			CN2 90.04 323 eP 27 43.40 -0.3		
WMO 21.23 299 P 39 33.50 0.2			SSF 86.16 42 eP	08 42.60	-0.1	1.6s 20.00nm 5.4mb		
KKN 25.33 259 P 40 17.32 3.6X			LOR 86.32 42 eP	08 43.60	0.1	SVW 92.58 11 P 27 52.00 -3.1X		
0.6s 19.00nm 4.9mb			0.9s 8.20nm 5.0mb			BJI 92.88 315 eP 27 58.50 1.7		
YAK 27.85 16 eP 40 22.60 -13.6X			WB2 129.93 257 ePKP	15 12.40	0.2	0.7s 8.00nm 5.3mb		
e 42 40.00			0.6s 6.00nm			SLKM 92.98 13 P 27 55.60 -1.3		
WRA 59.10 157 P 44 46.00 -1.6			WRA 129.94 257 PKP	15 12.00	-0.2	ALQ 93.12 51 ePc 28 14.00 55km		
0.8s 2.30nm 4.4mb			0.6s 6.10nm			e 27 58.50 0.1		
WB2 59.11 157 iPd 44 47.60 -0.1			BAL 144.93 239 ePKP	15 39.00	-0.4	ANMO 93.12 51 P 28 14.50 55km		
0.9s 2.30nm 4.3mb			MUN 144.93 237 ePKP	15 39.00	-0.4	PV09 93.42 47 P 28 00.00 0.2		
ASPA 62.47 159 iPd 45 11.60 1.1			HYB 146.51 5 ePKP	15 43.00	0.6	TIY 93.85 312 Pd 28 04.60 3.1X		
2.0s 7.40nm 4.5mb			GBA 150.15 8 PKPc	15 53.00	4.9X	XAN 94.13 307 eP 28 04.50 1.7		
YKA 74.41 21 eP 46 13.60 -10.5X			0.9s 9.00nm			PMR 94.19 13 P 28 01.20 -1.2		
0.5s 0.20nm			S.D. = 0.7 on 38 of 44 obs.			0.8s 10.34nm 5.3mb		
S.D. = 1.4 on 11 of 19 obs.			APR 25, 1991 01h 14m 49.58 ± 0.24s			BALM 95.20 16 P 28 06.50 -0.8		
APR 24, 1991 23h 56m 30.58 ± 1.04s			30.043 S ± 7.1km 177.659 W ± 6.5km			BW06 95.68 43 P 28 06.50 -3.5X		
16.144 N ± 7.9km 98.329 W ± 5.8km			DEPTH = 60.1km (3 depth phases)			FBA 97.46 12 P 28 15.00 -2.2		
DEPTH = 33.8 ± 7.1 km			5.4mb (14 obs.)			0.7s 8.72nm 5.4mb		
4.7mb (17 obs.) 3.9msz (1 obs.)			KERMADEC ISLANDS (178)			YKA 104.99 25 ePd diff 29 10.80 19.7X		
NEAR COAST OF GUERRERO, MEXICO (58)			Felt strongly on Raoul Island.			0.6s 0.20nm		
ACX 1.63 296 iP 56 29.74 -0.7			PUZ 8.70 202 eP 16 53.00 -2.2			GKN 109.60 292 Pd diff 29 07.60 -5.0X		
			eS 18 33.70			BUL 124.06 210 iPKPd 33 24.50 -18.9X		
			PGZ 11.65 203 eP 17 36.10 0.8			GAR 124.44 299 iPKP 33 43.60 0.0		
			MNG 11.94 206 eP 17 34.60 -4.6X			QUE 124.83 288 ePKP 33 45.30 0.6		
						FRB 124.92 31 ePKP 33 42.00 -1.5		

25d 01h

TAB	142.97	294	ePKP	34	18.00	-0.4	BLA	27.56	4	P	22	28.00	6.3X	NB2	83.65	29	P	29	03.30	0.7
KAF	144.31	341	iPKP	34	16.20	-3.4X	CVL	28.52	7	P	22	31.80	1.5		0.9s		4.90nm		4.7mb	
	0.7s	18.30nm					TUL	28.68	338	eP	22	30.00	-1.8	HFS	85.00	30	eP	29	08.60	-0.7
			eS	34	16.80			1.0s	11.90nm				4.6mb		0.8s		3.50nm		4.6mb	
NSS	144.97	353	iPKPd	34	18.96	-1.7		Z	21s	0.28um			3.8Msz				e	29	14.50	
OBN	145.04	326	iPKP	34	19.80	-1.3			LR	31	43.20			GRF	85.40	41	eP	29	19.00	7.4X
	1.0s	*****nm					ZOBO	29.59	150	P	22	40.50	-0.4		Z	20s	0.20um		4.5Msz	
NUR	146.08	340	iPKP	34	22.50	-0.2			8.00nm			4.5mb		MOX	85.49	40	eP	29	19.00	7.0X
	0.8s	189.20nm					Z	24s	0.30um			3.8MszX		CLL	86.24	39	eP	29	17.00	1.3
RGS	146.60	353	iPKP	34	24.00	0.6			S	28	00.00				1.2s	13.00nm		5.0mb		
MOL	147.29	356	iPKPd	34	26.49	2.0			LR	33	16.00			UPP	86.99	30	iP	29	18.70	-0.4
NB2	148.44	352	PKP	34	29.30	2.8X	LPB	29.83	150	P	23	00.00	17.2X	KHC	87.01	41	P	29	22.00	2.4
	0.8s	55.60nm					Z	20s	1.42um			4.6Msz			e			29	26.30	
UPP	148.45	345	iPKPc	34	28.90	2.4			LR	33	34.00			PRU	87.46	40	eP	29	28.50	6.9X
SUE	148.94	358	ePKP	34	31.40	4.2X	ALO	33.14	323	e(P)	23	10.00	-1.5	KEV	87.78	19	eP	29	27.00	4.2X
HFS	148.95	349	ePKP	34	26.70	-0.6		0.9s	2.10nm			4.1mb		ZST	89.49	41	eP	29	37.80	6.4X
	0.7s	68.10nm						e	23	14.00					e			00	44.10	
ASK	149.50	357	ePKP	34	32.50	4.4X	ANMO	33.15	323	P	23	15.50	4.0X	NUR	90.16	28	eP	29	36.00	1.8
KVT	150.62	301	ePKP	34	36.90	6.4X		0.8s	7.70nm			4.7mb		KAF	90.34	26	eP	29	34.50	-0.6
HR1	151.46	285	iPKPc	34	40.50	8.4X	SIV	33.39	139	P	23	11.60	-2.0	ASPA	142.21	244	ePKP	36	01.60	-6.3X
BHL	151.55	286	PKP	34	37.00	4.8X	GOL	36.03	330	P	23	35.50	-0.9		0.9s	11.80nm				
MML	151.68	283	iPKPc	34	41.10	8.8X		0.9s	5.92nm			4.5mb		WB2	142.63	250	iPKPc	36	03.30	-5.4X
RMN	152.16	279	iPKPc	34	41.70	8.5X	MSU	38.94	322	P	24	04.00	3.2X		0.8s	5.90nm				
BBTK	153.33	300	iPKPc	34	43.00	8.4X	RSSD	38.95	336	P	24	04.00	3.2X	WRA	142.64	250	PKP	36	03.00	-5.7X
MLR	155.92	316	ePKP	34	56.00	18.1X	BW06	40.43	329	P	24	11.00	-2.0		0.8s	5.80nm				
SPC	156.53	330	ePKP	34	38.60	-0.1	TNP	41.87	318	eP	24	31.20	6.3X	KMI	145.03	351	ePKP	36	08.00	-4.9X
KSP	156.74	337	ePKP	34	38.50	-0.1		1.0s	3.00nm			4.0mb		GBA	149.78	41	PKPd	36	24.00	3.6X
	0.8s	25.00nm					BAO	42.72	126	eP	24	31.50	-0.5		0.2s	1.50nm				
		i	34	49.50			LRM	44.06	330	eP	24	47.00	4.3X	MUN	151.57	216	ePKP	36	28.20	5.5X
		ic	35	10.00			PEL	44.09	165	iPd	24	43.00	0.2		S.D. = 1.2	on 61 of 87 obs.				
CLL	157.31	342	iPKPc	34	50.20	10.9X	TACH	44.51	166	eP	24	46.50	0.3							
	1.0s	14.00nm					PCH	44.59	165	eP	24	47.00	0.1							
BRG	157.45	341	ePKP	34	50.40	10.9X	LNv	44.69	166	eP	24	47.00	-0.5							
	1.3s	11.00nm					SCH	46.86	13	eP	25	05.00	0.4							
		i	35	12.60			FFC	47.48	345	eP	25	09.00	-0.4							
PRU	158.05	339	ePKP	34	55.00	14.8X		0.9s	6.00nm			4.7mb								
	1.2s	11.60nm					NEW	48.06	330	P	25	12.00	-2.1							
		e	35	14.00				0.9s	4.93nm			4.6mb								
		e	35	41.30			PDCR	48.74	116	eP	25	18.30	-1.5							
KHC	159.10	339	ePKP	34	41.50	0.0	PNT	50.00	329	eP	25	34.00	5.0X	UPA	3.51	108	iPd-	48	42.00	-1.1
		e	35	18.00			FRB	55.00	8	eP	26	05.00	-1.1		(S)			49	22.00	
							YKA	57.55	343	eP	26	23.60	-0.8	SDV	12.18	95	iPd	50	42.70	-1.1
								0.8s	6.40nm			4.7mb			eS			52	57.50	
							INK	67.25	342	eP	27	30.50	1.5	TOV	12.94	90	eP	50	55.00	1.2
							FBA	70.81	336	P	27	50.00	-1.1		eS			53	17.00	
								0.7s	2.18nm			4.4mb		PPM	17.62	302	(P)	51	56.80	2.1
							IMA	73.50	336	P	28	08.40	1.2	RSCP	25.52	355	eP	53	20.00	3.3X
								0.7s	1.45nm			4.1mb			1.5s	80.65nm		5.1mb		
							IFR	74.59	58	iP	28	14.50	0.3	TUL	28.25	338	ePc	53	49.00	7.3X
								i	28	21.00					1.4s	22.70nm		4.7mb		
							TOL	75.36	51	P	28	25.00	6.7X	Z	18s	0.22um		3.8Msz		
							LKO	76.05	83	PKP	28	22.46	-0.3		LR			01	47.90	
							TIC	77.01	85	PKP	28	33.00	4.9X	ZOBO	29.99	151	P	54	00.00	1.9
							LIC	77.06	86	PKP	28	32.40	4.0X		Z	24s	0.53um		4.1MszX	
							KIC	77.33	86	PKP	28	32.90	3.1X		S			59	14.00	
							LPF	77.48	43	eP	28	29.50	-0.5		LR			03	04.00	
							GRR	77.60	43	eP	28	30.30	-0.3	CCH	31.93	149	P	54	15.80	1.0
								0.9s	11.45nm			5.0mb		ALQ	32.77	323	eP	54	22.00	0.1
							FLN	77.84	42	eP	28	31.90	-0.1		1.2s	4.69nm		4.3mb		
								1.1s	24.40nm			5.2mb		SIV	33.74	140	P	54	27.40	-2.9
							LDF	78.08	42	eP	28	33.00	-0.3	GOL	35.63	330	iP	54	45.80	-0.8
								0.9s	14.75nm			5.1mb			1.0s	14.00nm		4.8mb		
							MFF	78.11	44	eP	28	33.20	-0.3	RSSD	38.54	335	eP	55	11.50	0.6
							EPF	78.58	48	eP	28	36.50	0.3		1.1s	12.42nm		4.6mb		
								0.9s	8.20nm			4.8mb		BW06	40.03	329	eP	55	21.00	-2.3
							LFF	78.79	46	eP	28	37.00	-0.2		1.1s	8.63nm		4.4mb		
							LPO	79.11	46	eP	28	38.70	-0.4	TNP	41.52	318	eP	55	35.30	-0.3
								1.0s	12.00nm			4.9mb			1.1s	2.60nm		3.9mb		
							LSF	79.28	45	eP	28	39.10	-0.8	BAO	43.00	126	ePc	55	47.00	-0.9
							CAF	79.73	46	eP	28	42.10	-0.3	LRM	43.66	330	eP	55	51.70	-1.3
								1.1s	12.20nm			4.8mb		SES	46.41	335	eP	56	15.00	0.3
							TCF	79.75	45	eP	28	41.50	-1.0	FFC	47.04	345	ePc	56	18.80	-0.7
								0.9s	4.90nm			4.5mb			1.1s	15.00nm		4.9mb		
							MAF	80.00	45	eP	28	43.10	-0.7	NEW	47.66	329	eP	56	21.00	-3.6X
							BGF	80.17	44	eP	28	44.00	-0.7		1.0s	2.25nm		4.1mb		
								0.7s	5.50nm			4.6mb		PNT	49.60	329	ePc	56	39.00	-0.5
							AVF	80.51	44	eP	28	45.30	-1.2	YKA	57.11	343	eP	57	30.60	-4.2X
								0.8s	3.35nm			4.4mb			0.7s	1.30nm		4.1mb		
							SSF	80.59	44	eP	28	45.90	-1.0	INK	66.81	342	eP	58	38.00	-1.7
							LOR	80.82	44	eP	28	47.10	-1.1	EKA	75.96	35	Pd	59	35.20	0.5
								0.9s	4.90nm			4.5mb			1.2s	14.60nm		4.9mb		
							Z	19s	0.22um			4.5Msz		LKO	76.02	83	P	59	35.76	-0.1
								80.85	44	eP	28	47.40	-0.9		0.9s	23.00nm		5.2mb		
								0.9s	6.55nm			4.7mb		TIC	77.00	85	P	59	41.50	0.1
							HAU	82.43	43	eP	28	55.80	-0.7	LIC	77.05	86	P	59	41.92	0.3
							Z	21s	0.15um			4.3Msz		KIC	77.31	86	P	59	43.38	0.3
							BSF	82.75	43	eP	28	57.50	-0.8	NB2	83.27	29	P	00	14.80	0.9

1.0s 7.60nm 4.8mb
GRF 85.07 41 eP 00 25.00 1.8
CLL 85.90 39 eP 00 27.00 -0.3
1.0s 8.00nm 4.9mb
BRG 86.57 39 eP 00 31.60 1.0
1.6s 20.00nm 5.1mb
UPP 86.61 30 iP 00 30.40 -0.2
KHC 86.69 41 eP 00 32.50 1.2
PRU 87.12 40 eP 00 34.50 1.2
GUN 140.71 16 PKP 07 00.00 -18.7X
ASPA 142.39 244 ePKP 07 16.30 -5.1X
1.3s 7.80nm
WB2 142.76 250 iPKPc 07 17.50 -4.6X
0.9s 4.20nm
WRA 142.77 250 PKP 07 17.00 -5.1X
0.9s 4.10nm
GBA 149.45 40 PKPc 07 36.70 3.6X
1.1s 15.10nm
KOD 151.94 45 ePKP 07 43.70 6.4X
S.D. = 1.3 on 30 of 40 obs.

* APR 25, 1991 03h 31m 13.91±1.51s
43.352 N ±10.4km 13.072 E ±17.1km
DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)

ARV 0.17 327 Pc 31 17.00 -0.9
eSg 31 20.00
CRE 0.86 289 P 31 30.50 -0.1
eSg 31 40.50
MNS 1.01 197 P 31 32.20 -0.8
eSg 31 47.00
SFI 1.05 303 P 31 34.20 0.5
PGD 1.11 299 P 31 35.50 0.6
eSg 31 48.80
SDI 1.73 161 P 31 45.00 0.7
S.D. = 0.9 on 6 of 6 obs.

? APR 25, 1991 04h 11m 32.48±5.64s
39.408 N ±34.3km 30.057 E ±29.5km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 3.0 (ISK).

IZI 1.03 334 iPn 11 51.50 -0.5
DST 1.12 281 ePn 11 53.00 -0.6
EYL 1.16 4 iPn 11 53.80 -0.4
YLV 1.27 336 iPn 11 56.50 0.4
HRT 1.44 348 ePn 11 59.00 0.3
KCT 1.56 303 ePn 12 01.00 0.7
S.D. = 0.7 on 6 of 6 obs.

* APR 25, 1991 04h 39m 34.28±1.31s
13.858 N ±16.0km 92.035 W ±14.3km
DEPTH = 33.0km (normol)
3.9mb (2 obs.)

OFF COAST OF CHIAPAS, MEXICO (68)

TPX 1.06 348 iP 39 52.26 -0.6
iS 40 06.00
SCX 2.92 349 iP 40 20.74 1.3
iS 40 53.54
OXX 5.54 306 (P) 41 01.96 5.1X
(S) 41 53.47
IISM 7.23 316 iP 41 20.64 0.3
IIT 7.91 311 (P) 41 28.95 -1.2
ACX 8.12 293 (P) 41 33.77 0.9
PPM 8.17 310 iP 41 36.80 2.7X
III 8.44 303 (P) 41 42.50 5.0X
ALO 24.70 331 eP 44 53.30 -0.7
0.7s 2.23nm 3.9mb
e 45 30.00
YKA 51.16 347 eP 48 31.70 -4.3X
0.5s 0.70nm 3.9mb
PDCR 58.63 114 (P) 49 31.00 0.0
INK 60.56 344 eP 49 40.00 -3.5X
S.D. = 1.1 on 7 of 12 obs.

? APR 25, 1991 06h 55m 38.84±6.25s
33.972 S ±39.1km 72.267 W ±37.8km
DEPTH = 11.0 ± 8.7 km

OFF COAST OF CENTRAL CHILE (134)

LNV 0.71 89 iPd 55 53.00 0.3
LCCH 0.76 50 iPd 55 52.50 -1.1
iS 56 01.00
TACH 1.15 74 iPd 55 58.90 -1.4

PEL 1.56 58 iPd 56 05.30 -1.2
iS 56 24.00
JACH 1.90 48 iPd 56 10.60 -1.0
iS 56 34.00
MDZ 3.06 70 eP 56 31.10 3.1X
iS 57 10.00
RTBS 3.30 47 ePc 56 32.00 0.5
ZON 3.87 52 eP 56 41.00 1.4
CCH 17.41 20 (P) 59 45.00 1.4
LPB 17.77 13 P 59 50.00 1.8X
ZOBO 18.02 13 P 59 50.00 -1.5
SIV 20.55 32 P 00 15.20 -4.9X
S.D. = 1.5 on 9 of 12 obs.

* APR 25, 1991 07h 40m 21.07±0.58s
13.355 N ±12.1km 90.696 W ±13.1km
DEPTH = 33.0km (normol)
4.4mb (7 obs.) 3.5Msz (1 obs.)

NEAR COAST OF GUATEMALA (71)

TPX 2.16 316 (P) 40 54.30 -1.2
SCX 3.85 331 (P) 41 28.00 8.6X
PPM 9.50 308 (P) 42 40.50 1.3
RSCP 22.63 11 eP 45 22.00 1.6
1.5s 48.39nm 4.8mb
TUL 22.92 349 iPd 45 24.40 1.1
0.6s 2.60nm 3.9mb
Z 22s 0.18um 3.5Msz
ALO 25.79 329 eP 45 50.30 -0.7
0.8s 1.49nm 3.6mb
ZOBO 36.94 142 P 47 29.50 -0.2
LPB 37.16 142 eP 47 31.00 -0.4
CCH 38.99 141 (P) 47 39.00 -7.7X
FFC 42.21 350 eP 48 11.00 -1.4
0.8s 10.00nm 4.6mb
PNT 43.03 332 eP 48 19.00 -0.2
0.8s 8.00nm 4.5mb
EDM 43.66 340 eP 48 24.00 -0.3
SCH 45.40 19 eP 48 37.00 -1.2
YKA 51.95 346 eP 49 25.70 -3.1X
0.9s 1.70nm 4.0mb
PDCR 57.23 115 eP 50 08.60 0.6
INK 61.41 343 eP 50 33.00 -3.1X
LKO 83.13 82 P 52 45.16 -0.5
0.4s 6.00nm 5.0mb
LIC 84.39 85 P 52 52.10 0.0
KIC 84.64 85 P 52 53.40 0.1
WRA 136.46 255 PKP 59 42.00 -0.2
0.8s 0.90nm
CHG 146.65 343 ePKP 00 02.00 1.8
GBA 150.75 24 PKPc 00 10.10 3.5X
1.2s 16.10nm
S.D. = 1.0 on 17 of 22 obs.

* APR 25, 1991 07h 55m 28.98±0.52s
9.769 N ±9.2km 83.406 W ±9.7km
DEPTH = 10.0km (geophysicist)
4.6mb (9 obs.) 4.6Msz (1 obs.)

COSTA RICA (78)

MD 4.7 (SJR). Felt.

UPA 3.90 101 iPc 56 29.50 -0.7
eS 57 14.50
YANA 10.93 154 eP 58 09.50 0.4
SDV 12.64 93 eP 58 30.60 -1.3
eS 00 47.30
TOV 13.42 89 eP 58 36.00 -6.1X
eS 01 11.20
PPM 17.39 304 eP 59 34.80 0.9
III 17.76 301 iP 59 39.80 1.5
NNA 22.58 163 eP 00 31.50 0.5
1.2s 18.75nm 4.5mb
JSC 24.47 4 P 00 51.00 1.7
LHS 24.71 5 P 00 53.20 1.6
TKL 25.77 359 P 01 02.50 0.8
GBTN 25.79 358 P 01 02.00 0.2
RSCP 25.79 356 eP 01 02.00 0.1
1.5s 43.78nm 4.9mb
OLY 26.65 345 P 01 08.00 -1.8
BLA 27.45 5 P 01 18.30 1.1
CVL 28.44 8 P 01 26.50 0.5
MEO 28.51 333 iPd 01 25.40 -1.3
LPB 30.20 150 eP 01 28.00 -14.5X
Z 20s 1.42um 4.6Msz
LR 13 06.00
CCH 31.92 148 P 02 01.40 3.9X
ALO 32.73 323 eP 02 04.00 -0.3

1.0s 2.00nm 4.0mb
ANMO 32.73 323 P 02 04.50 0.2
0.8s 4.20nm 4.4mb
BAO 43.21 125 eP 03 30.50 -1.9
SCH 46.83 13 eP 04 00.00 -0.7
FFC 47.21 345 ePc 04 02.60 -1.1
0.8s 14.00nm 5.1mb
VAO 48.30 133 (P) 03 51.00 -21.8X
FRB 54.92 8 eP 04 59.00 -3.0X
YKA 57.26 343 eP 05 15.50 -3.3X
0.8s 5.00nm 4.6mb
INK 66.95 342 ePd 06 21.90 -1.7
FBA 70.48 336 P 06 43.50 -1.9
0.7s 2.54nm 4.5mb
IMA 73.16 336 P 06 59.50 -2.1
0.7s 1.27nm 4.1mb
LKO 76.53 82 P 07 23.76 2.0
1.0s 23.00nm 5.2mb
LIC 77.55 86 P 07 29.60 2.2
KIC 77.81 86 P 07 31.00 2.1
GAR 125.67 25 ePd11 14.90 4.4X
GKN 140.71 17 PKP 15 00.00 -1.6
ASPA 141.83 244 ePKP 15 04.70 1.1
1.0s 4.30nm
WB2 142.21 250 iPKPd 15 04.50 0.2
0.9s 2.50nm
WRA 142.22 250 PKP 15 04.00 -0.4
0.8s 2.50nm
GBA 149.99 40 PKPc 15 20.90 3.8X
0.7s 3.20nm
S.D. = 1.4 on 30 of 38 obs.

* APR 25, 1991 08h 03m 08.41±1.06s
1.887 N ±15.4km 96.316 E ±15.0km
DEPTH = 33.0km (normol)
4.3mb (2 obs.)

OFF W COAST OF NORTHERN SUMATERA(705)

PSI 2.73 73 iPc 03 51.20 0.4
BSI 3.73 344 iP 04 03.50 -1.5
iS 04 44.00
IPM 5.41 60 ePc 04 24.30 -4.6X
0.7s 67.30nm 5.3mb X
SNG 6.78 39 eP 04 41.00 -7.2X
e 07 15.70
GBA 22.01 303 Pc 08 20.10 18.4X
0.4s 1.10nm
GUN 27.74 340 P 08 56.60 0.1
DMN 27.74 338 P 08 57.20 0.8
KKN 27.84 339 P 08 58.00 0.8
GKN 28.27 338 P 09 01.20 0.1
WB2 43.16 122 iPd 11 07.30 -0.7
0.6s 5.80nm 4.5mb
ASPA 44.51 127 eP 11 18.90 0.0
2.2s 7.60nm 4.2mb
S.D. = 0.9 on 8 of 11 obs.

* APR 25, 1991 09h 03m 33.34±0.66s
12.856 N ±9.9km 123.139 E ±15.5km
DEPTH = 33.0km (normol)
4.4mb (5 obs.) 4.3Msz (1 obs.)

LUZON, PHILIPPINE ISLANDS (249)

OCP 2.67 312 eP 04 25.50 10.5X
BAG 4.32 325 eP 04 38.00 -0.5
SSE 18.24 355 P 07 47.50 1.8
Z 16s 0.40um
N 12s 0.30um
E 12s 0.40um
WHN 19.39 337 eP 07 57.80 -1.7
Z 20s 0.60um
E 14s 0.70um
PP 08 07.50
NJ2 19.51 349 Pd 08 01.00 0.2
KMI 22.79 305 Pc 08 37.50 2.9X
1.5s 30.00nm 4.6mb
XAN 24.74 331 eP 08 53.10 -0.1
BJI 27.76 348 eP 09 17.50 -3.6X
LZH 28.93 326 eP 09 30.00 -1.8
2.0s 29.00nm 4.6mb
Z 20s 0.73um 4.3Msz
N 14s 0.60um
HHC 29.68 342 eP 09 39.00 0.5
E 10s 0.20um
MDJ 32.13 9 eP 09 59.00 -0.9
WB2 34.41 161 eP 10 18.80 -1.1
1.2s 2.80nm 4.1mb

25d 09h

ASPA 37.79 164 eP 10 49.20 0.7
0.9s 3.90nm 4.3mb
GUN 37.83 299 P 10 49.60 0.4
KKN 38.31 299 P 10 54.20 1.1
DMN 38.41 298 P 10 49.40 -4.6X
GKN 38.91 299 P 10 58.80 0.7
INK 83.02 21 eP 15 57.00 0.6
YKA 92.63 23 eP 16 42.90 0.1
1.1s 1.30nm 4.3mb
S.D. = 1.1 on 15 of 19 obs.

% APR 25, 1991 09h 39m 52.67±0.96s
39.630 N ± 8.1km 29.461 E ± 7.9km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.8 (ISK).

DST 0.64 268 ePg 40 04.10 -1.5
eSg 40 17.10
IZI 0.71 1 iPg 40 05.90 -0.8
ALT 0.76 139 ePg 40 07.80 0.2
eSg 40 18.80
YLV 0.94 356 iPn 40 10.00 -0.6
KCT 1.05 306 ePn 40 11.00 -1.5
EYL 1.08 30 iPn 40 12.30 -0.7
HRT 1.20 7 ePn 40 15.70 0.6
BNT 1.39 302 ePn 40 20.00 1.9
EDC 1.42 301 ePn 40 19.50 1.0
CTT 1.71 333 ePn 40 24.00 1.4
S.D. = 1.4 on 10 of 10 obs.

* APR 25, 1991 09h 53m 05.49±0.58s
8.557 S ± 9.1km 79.812 W ± 12.5km
DEPTH = 33.0km (normal)
4.5mb (7 obs.)

NEAR COAST OF NORTHERN PERU (109)
Felt (IV) at Trujillo.

PT10 4.48 142 eP 54 12.50 -0.4
eS 55 00.00
NNA 4.49 140 iPc 54 13.20 0.1
0.6s 40.00nm
HUA 5.61 128 iPc 54 31.50 2.3
iS 55 38.50
OUR 8.43 9 eP 55 10.50 1.8
YANA 8.48 8 eP 55 11.30 1.8
ZOBO 13.74 125 eP 56 21.00 0.0
i 56 26.00
(S) 00 28.00
LPB 13.91 126 P 56 30.00 7.0X
CCH 15.94 125 P 56 51.50 2.1
SDV 19.59 28 eP 57 33.20 -1.1
SIV 19.73 114 P 57 32.20 -3.4X
PDCR 40.17 99 eP 00 38.20 -2.4
RSCP 44.25 353 P 01 13.50 -0.2
TUL 46.72 342 ePc 01 33.70 0.4
0.8s 18.00nm 5.1mb
FVM 47.35 349 P 01 38.00 -0.2
ALO 50.06 331 eP 02 00.70 1.2
1.0s 3.50nm 4.3mb
e 02 19.00

ANMO 50.07 331 P 02 00.00 0.5
GOL 53.54 336 P 02 26.00 0.4
0.8s 2.53nm 4.3mb
RSSD 56.84 339 P 02 49.90 0.4
0.7s 4.33nm 4.6mb
BW06 57.84 334 P 02 55.60 -1.0
0.7s 2.24nm 4.3mb
FRB 72.60 5 eP 04 29.50 -1.6
YKA 75.75 344 eP 04 48.00 -1.4
0.8s 1.30nm 4.0mb
LIC 75.99 81 P 04 50.70 -1.0
LKO 76.06 78 P 04 50.94 -1.2
TIC 76.07 81 P 04 51.20 -1.0
KIC 76.29 81 Pc 04 52.50 -0.9
0.7s 19.50nm 5.2mb

INK 85.39 343 ePc 05 40.60 0.2
WB2 136.03 230 iPKPc 12 26.30 0.4
1.0s 2.00nm
e 12 41.90
WRA 136.04 230 PKP 12 26.00 0.1
2.2s 1.70nm
GUN 156.48 33 PKP 13 00.00 0.7
S.D. = 1.2 on 27 of 29 obs.

% APR 25, 1991 10h 34m 45.53±0.85s

39.115 N ± 7.1km 27.586 E ± 8.8km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.7 (ISK).

IZM 0.76 200 ePg 35 00.40 0.0
iSg 35 11.90
DST 0.94 58 ePn 35 03.60 0.0
EZN 1.21 306 ePn 35 08.00 0.0
BNT 1.27 12 ePn 35 09.00 0.0
KGT 1.35 351 ePn 35 10.40 0.0
S.D. = 0.0 on 5 of 5 obs.

APR 25, 1991 10h 46m 56.64±0.28s
44.383 N ± 2.1km 7.245 E ± 2.9km
DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)
ML 2.6 (LDG), 2.4 (GEN).

DOI 0.12 0 P 47 00.50 0.8
iSg 47 03.00
STV 0.15 158 P 47 00.54 0.3
S 47 02.73
PZZ 0.16 320 P 47 00.88 0.5
S 47 03.31
ENR 0.20 141 P 47 01.34 0.2
S 47 04.00
TOUF 0.37 180 Pg 47 04.21 -0.1
AUTN 0.41 161 Pg 47 05.21 0.1
Sg 47 10.39
SAOF 0.46 151 Pg 47 05.73 -0.2
Sg 47 12.08
ROB 0.46 101 P 47 06.31 0.3
S 47 12.77
MVIF 0.49 188 Pg 47 06.45 -0.2
Sg 47 13.21
AURF 0.50 173 Pg 47 06.64 -0.2
Sg 47 13.68
SBF 0.54 165 Pg 47 07.40 -0.1
Sg 47 14.20
RRL 0.63 329 P 47 09.07 -0.4
S 47 17.96
CALN 0.68 202 Pg 47 10.12 -0.1
Sg 47 19.18
FIN 0.71 104 P 47 10.46 -0.3
S 47 19.92
RSP 0.77 1 P 47 10.34 -1.4
S 47 20.03
FRF 0.93 208 Pg 47 14.10 -0.3
S 47 25.40
PCP 0.94 80 P 47 14.84 0.2
S 47 26.38
LSD 1.08 357 P 47 17.38 0.3
S 47 29.96
LRG 1.13 215 Pg 47 17.80 0.1
Sg 47 31.90
LMR 1.18 207 Pg 47 18.60 0.0
Sg 47 33.20
CDR 1.28 237 eP 47 20.90 0.5
eSg 47 36.20
S.D. = 0.5 on 21 of 21 obs.

* APR 25, 1991 10h 55m 37.09±0.54s
40.373 N ± 12.2km 78.473 E ± 18.1km
DEPTH = 33.0km (normal)
4.2mb (7 obs.)

SOUTHERN XINJIANG, CHINA (321)

GKN 13.35 156 P 58 37.80 -9.0X
KKN 13.75 154 P 58 43.20 -9.0X
0.6s 12.00nm 4.9mb X
GUN 13.85 152 P 58 45.00 -8.7X
0.6s 21.00nm 5.1mb X
GBA 26.68 182 Pc 01 15.30 0.4
0.6s 2.90nm 4.1mb
HFS 43.82 319 eP 03 41.20 0.0
0.5s 7.10nm 4.7mb
e 03 43.60
NB2 44.98 321 P 03 50.40 -0.2
0.7s 3.20nm 4.3mb
EKA 53.63 315 P 04 57.00 -0.1
0.6s 4.40nm 4.6mb
INK 69.02 12 eP 06 41.50 0.7
YKA 76.94 6 eP 07 27.30 -0.1
0.6s 0.60nm 3.8mb
WRA 79.37 128 P 07 41.00 -0.3
1.4s 2.20nm 4.0mb

WB2 79.37 128 iPc 07 41.10 -0.3
1.2s 2.40nm 4.1mb
S.D. = 0.4 on 8 of 11 obs.

% APR 25, 1991 11h 16m 57.95±0.94s
39.133 N ± 7.4km 27.669 E ± 12.9km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.6 (ISK).

IZM 0.80 204 ePg 17 13.40 -0.1
eSg 17 25.40
DST 0.88 57 ePn 17 15.10 0.2
EDC 1.22 7 ePn 17 20.00 -0.7
BNT 1.24 9 ePn 17 20.80 -0.1
KGT 1.35 348 ePn 17 23.40 0.7
S.D. = 0.7 on 5 of 5 obs.

APR 25, 1991 11h 17m 19.72±0.34s
43.036 N ± 3.0km 12.806 E ± 3.6km
DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)
ML 3.9 (ZAG), 3.7 (KBA).

ARV 0.47 12 Pd 17 29.50 0.2
eSg 17 37.40
MNS 0.66 188 P 17 32.40 -0.5
eSg 17 44.20
AQU 0.81 147 P 17 34.70 -0.8
eSg 17 46.80
CRE 0.86 314 P 17 37.00 0.7
eSg 17 51.40
RSM 0.93 344 P 17 39.00 1.6
SFI 1.12 322 P 17 41.70 0.9
eSg 17 58.00
AZI 1.15 156 P 17 43.10 2.0
eSg 17 57.10
PGD 1.15 317 P 17 42.40 1.0
eSg 17 59.30
RMP 1.23 184 P 17 42.50 0.0
eSg 18 00.00
RDP 1.28 183 P 17 43.30 -0.2
eSg 18 00.40
FIR 1.35 304 ePg 17 47.00 2.5
iSg 18 08.50
MAO 1.37 244 P 17 45.50 0.7
DUI 1.84 138 P 17 52.50 0.8
eSn 18 16.50
BDI 1.91 303 P 17 53.10 0.5
eSg 18 15.90
MME 1.92 308 P 17 53.60 0.6
eSn 18 18.00
RFI 1.94 153 P 17 56.13 3.1X
RIY 2.57 26 iPnc 18 02.30 0.2
iSn 18 35.20
HVAR 2.67 86 iPn 18 02.90 -0.6
TRI 2.76 14 ePnd 18 04.20 -0.6
iPn 18 11.40
iSn 18 40.50
iSg 18 54.30
PGF 2.84 261 Pn 18 06.30 0.2
Sn 18 40.00
CEY 2.94 23 e(Pn) 18 08.50 1.1
e 18 15.50
eSn 18 44.50
VVI 2.96 355 P 18 08.10 0.5
BOB 2.98 307 P 18 07.80 -0.2
SAL 3.05 328 P 18 08.50 -0.3
VOY 3.09 14 ePn 18 09.30 -0.3
e(Sn) 18 54.50
eSg 19 05.20
CTI 3.12 345 P 18 11.10 1.1
eSn 18 45.60
LJU 3.25 22 ePn 18 10.50 -1.2
e 18 16.00
FVI 3.56 360 P 18 16.10 0.1
PTJ 3.65 37 ePn 18 18.10 0.7
eSn 18 28.50
iSg 19 15.00
SBF 4.00 284 Pn 18 22.10 -0.3
OGA 4.03 342 iPnc 18 26.10 3.1X
KBA 4.06 5 iPnc 18 21.30 -2.0
i 18 23.80
iSn 19 03.20
i 19 08.20
i 19 37.60

OSS	4.11	334	ePd	18	26.90	-2.8X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													</
-----	------	-----	-----	----	-------	-------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

25d 15h

iSg 42 50.00
CAF 3.80 234 Pg 42 24.90 12.4X
Sg 43 13.40
S.D. = 1.0 on 24 of 27 obs.

APR 25, 1991 15h 58m 33.21 ± 1.56s
63.639 N ± 12.4km 9.044 E ± 13.4km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 2.1 (BER).

RGS 0.88 134 eP 58 49.70 -0.4
MOL 1.27 213 iP 58 56.58 -0.2
eSg 59 13.43
NSS 1.57 54 eP 59 01.07 0.0
eSg 59 23.85
NRA0 3.14 157 Pn 59 24.20 0.6
S.D. = 0.7 on 4 of 4 obs.

APR 25, 1991 16h 27m 44.92 ± 0.66s
60.316 N ± 8.3km 1.573 E ± 7.9km
DEPTH = 17.5 ± 5.3 km
NORTH SEA (534)
MD 3.4 (BER).

OSG 0.67 74 iP 28 01.46 3.7X
eS 28 11.67
SUE 1.74 63 iP 28 14.76 0.3
ASK 1.81 83 iP 28 15.83 0.4
BER 1.87 86 iPd 28 16.64 0.3
FOO 2.13 51 iP 28 21.38 1.3
iS 28 44.46
FRO 2.16 47 iP 28 21.82 1.2
iS 28 45.12
KMY 2.16 119 eP 28 22.30 1.7
iS 28 46.73
HYA 2.42 67 iP 28 24.38 0.1
eS 28 51.32
ODD1 2.56 97 iP 28 26.54 0.1
MOL 3.65 49 iP 28 42.06 0.3
eS 29 21.18
EDR 4.03 214 ePc 28 47.48 0.4
eS 29 30.30
EDU 4.48 215 eP 28 53.40 -0.1
eS 29 39.80
ELO 4.75 218 ePc 28 57.20 -0.2
eS 29 47.80
EBH 4.88 216 ePd 28 58.91 -0.3
ESY 4.94 209 ePc 29 00.22 0.2
NRA0 4.94 81 Pn 28 58.60 -1.5
Sn 29 53.30
RGS 5.02 53 eP 29 01.00 -0.1
eS 31 31.99
EBL 5.17 210 eP 29 03.51 0.2
EAB 5.18 220 eP 29 03.10 -0.4
HFS 6.04 86 eP 29 13.90 -1.7
0.2s 3.50nm 4.8mb
eS 30 17.00
NSS 6.41 44 iP 29 20.02 -0.8
eS 30 29.38
NUR 11.40 79 eP 30 23.00 -6.7X
eS 32 25.00
eSg 33 41.00
KAF 12.03 71 iP 30 35.50 -2.8X
KTK1 12.65 37 eP 30 42.98 -3.5X
S.D. = 0.9 on 20 of 24 obs.

APR 25, 1991 18h 07m 51.89 ± 0.80s
13.397 N ± 6.7km 90.694 W ± 4.9km
DEPTH = 27.6 ± 4.7 km
5.0mb (19 obs.) 4.3Msz (6 obs.)
NEAR COAST OF GUATEMALA (71)

TER 0.90 1 iPc 08 06.90 -1.7
FUG 1.05 352 iPd 08 08.30 -2.7
GCG 1.19 8 eP 08 12.20 -0.8
S 09 02.00
JAT 1.29 315 iPd 08 04.80 -9.4X
SLP 1.40 17 iPc 08 16.20 0.4
TPX 2.13 315 iP 08 25.30 -1.1
iS 08 53.50
SCX 3.81 331 (P) 08 55.00 4.9X
iS 09 42.50
OXX 6.88 303 iP 09 33.36 -0.3
LVVM 8.38 320 (P) 09 53.20 -1.3
IISM 8.49 312 iP 09 55.29 -0.8
IIT 9.20 308 iP 10 05.38 -0.8

PPM 9.48 308 iP 10 12.34 2.2
ACX 9.50 292 (P) 09 41.65 -28.4X
IIA 9.55 308 iP 10 11.33 0.7
III 9.78 302 iP 10 14.44 0.3
UPA 11.79 111 ePc 10 43.00 1.6
0.9s 21.85nm 5.4mb
Z 18s 1.31um 4.0Msz
MRX 11.86 303 (P) 10 40.92 -1.3
SDV 20.18 101 iPd 12 27.10 -0.4
TOV 20.78 98 eP 12 34.00 0.4
OLY 22.02 358 P 12 46.80 0.9
MEO 22.46 343 iPd 12 48.50 -1.8
JSC 22.48 21 P 12 52.30 1.9
RSCP 22.58 11 P 12 53.40 1.9
Z 20s 3.39um 4.8Msz
LHS 22.82 21 P 12 55.00 1.2
TUL 22.88 349 ePc 12 52.80 -1.6
1.0s 45.70nm 4.9mb
Z 18s 0.74um 4.2Msz
e(S) 17 07.20
LR 19 21.30

TKL 23.03 15 P 12 57.00 1.2
ELC 23.82 3 P 13 04.00 0.5
NAV 25.41 19 P 13 18.60 -0.2
ALO 25.75 329 ePc 13 22.20 0.0
0.9s 13.03nm 4.5mb
ANMO 25.76 329 eP 13 22.10 -0.1
0.8s 40.11nm 5.1mb
GOL 29.22 336 P 13 53.50 -0.3
0.8s 5.95nm 4.4mb
Z 20s 0.75um 4.3Msz
GLA 29.44 316 eP 13 55.00 -0.7
LVNJ 30.66 24 P 14 06.00 -0.3
WVLY 30.82 18 P 14 07.20 -0.5
TPC 30.89 316 eP 14 09.00 0.6
PLM 31.02 314 eP 14 10.00 0.2
MSU 31.44 327 P 14 14.00 0.5
GSC 32.09 317 eP 14 21.00 1.9
DAU 32.40 330 P 14 22.00 0.1
CLC 32.92 317 eP 14 26.00 -0.2
ISA 33.41 316 eP 14 31.00 0.5
BW06 33.51 334 P 14 30.40 -1.1
TNP 34.05 321 P 14 36.20 0.0
1.0s 10.00nm 4.7mb
PHAM 34.81 315 P 14 43.00 0.5
FRI 34.98 317 ePc 14 43.60 -0.3
PRI 35.16 315 eP 14 45.20 -0.4
LLA 35.60 316 ePc 14 49.00 -0.3
CMB 36.02 318 ePc 14 53.00 0.2
e 14 58.90
ARN 36.40 316 P 14 56.90 0.9
MHC 36.46 316 ePc 14 57.30 0.7
ZOBO 36.97 142 P 15 00.00 -1.5
Z 22s 0.32um 4.1Msz
S 20 36.00
LR 26 32.00

BRK 37.16 317 e(P) 15 01.20 -1.1
LPB 37.19 142 (P) 15 04.00 0.8
LRM 37.19 335 eP 15 03.10 0.3
ORV 37.61 320 ePc 15 07.10 1.0
MIN 38.13 321 ePc 15 11.90 1.3
LBFM 38.90 322 P 15 17.00 -0.1
FHC 39.88 319 ePc 15 26.20 1.1
SES 40.46 340 eP 15 29.00 -0.7
NEW 41.10 333 ePc 15 34.20 -0.8
0.8s 9.90nm 4.6mb
SIV 41.36 134 P 15 36.20 -1.2
LON 42.27 328 P 15 44.80 0.2
PNT 42.99 332 ePc 15 51.00 0.6
0.8s 54.00nm 5.3mb
EDM 43.62 340 iPd 15 55.00 -0.5
PGC 44.35 329 eP 16 02.00 0.6
SCH 45.36 19 eP 16 08.00 -1.5
YKA 51.91 346 eP 16 57.20 -2.8X
1.0s 11.00nm 4.8mb
FRB 52.62 12 eP 17 02.50 -2.9X
PDCR 57.25 115 eP 17 38.00 -1.7
e 17 40.70
e 18 26.30
INK 61.37 343 ePc 18 05.50 -1.9
KLU 62.08 334 P 18 11.80 -0.6
TOA 62.45 334 P 18 14.00 -0.8
PMR 63.53 333 eP 18 20.60 -1.2
SLKM 63.62 332 eP 18 21.20 -1.3
FBA 64.30 337 ePc 18 25.00 -1.8
0.7s 8.72nm 5.0mb
iPcP 19 00.00

SVW 66.33 331 eP 18 36.70 -3.3X
0.8s 26.21nm 5.4mb
IMA 67.01 337 P 18 42.70 -1.7
ANM 71.42 334 eP 19 10.70 -0.7
DAG 72.93 13 iPd 19 18.30 -1.8
0.6s 13.33nm 5.1mb
EKA 77.71 36 P 19 49.00 1.3
1.1s 7.40nm 4.6mb
LKO 83.12 82 P 20 17.14 -0.1
0.8s 29.50nm 5.5mb
NB2 84.07 29 P 20 20.30 -0.9
0.9s 2.80nm 4.5mb
TIC 84.30 85 P 20 23.28 0.0
0.8s 18.00nm 5.4mb
LIC 84.38 85 P 20 23.82 0.2
0.7s 21.50nm 5.5mb
Z 20s 0.08um 4.1Msz
KIC 84.63 85 P 20 24.98 0.1
0.6s 22.50nm 5.5mb
HFS 85.51 29 eP 20 27.00 -1.4
0.7s 5.50nm 4.9mb
Z 18s 0.21um 4.6Msz
e 20 34.20
LR 52 10.00

GRF 87.45 39 eP 20 38.10 0.0
CLL 88.02 38 iPd 20 40.20 -0.6
TIY 124.72 338 ePKP 26 52.20 1.1
GTA 126.56 350 ePKP 26 54.00 -0.7
XAN 129.27 339 ePKP 27 00.10 0.2
QUE 131.61 26 ePKP 27 05.70 1.0
WB2 136.46 255 ePKP 27 11.90 -2.0
0.7s 2.20nm
WRA 136.47 255 PKP 27 13.00 -0.9
1.0s 1.70nm
LSA 137.12 358 ePKP 27 15.80 0.3
GKN 138.60 6 PKP 27 17.80 -0.1
GUN 138.80 5 PKP 27 16.20 -2.3
KKN 138.87 5 PKP 27 16.20 -2.3
POO 144.80 26 iPKPd 27 27.60 -1.2
CHG 146.61 343 ePKPc 27 33.00 1.2
1.6s 105.00nm
LOE 147.03 338 ePKP 27 34.00 1.5
HYB 147.59 19 ePKP 27 35.00 1.6
1.0s 65.00nm
NST 149.20 339 ePKP 27 41.80 5.9X
KHT 150.53 342 ePKP 27 44.00 6.0X
GBA 150.71 24 PKPc 27 39.60 1.4
1.2s 34.10nm

S.D. = 1.1 on 97 of 105 obs.
APR 25, 1991 18h 27m 19.93 ± 0.96s
41.375 N ± 9.3km 21.013 E ± 7.5km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.5 (SKO). Felt (III) in the Debar area.

OHR 0.31 212 iPgc 27 25.50 -0.9
iSg 27 33.30
PHP 0.53 306 iPgD 27 31.30 0.6
iSg 27 34.30
SKO 0.68 28 ePg 27 32.00 -1.4
iSg 27 42.80
TIR 0.86 269 ePg 27 37.00 0.5
iSg 27 48.00
VAY 1.17 92 ePn 27 43.00 1.2
eSn 28 05.70
SDA 1.30 300 ePg 27 48.80 4.8X
iSg 28 11.60

S.D. = 1.5 on 5 of 6 obs.
APR 25, 1991 18h 35m 43.58 ± 0.25s
25.516 S ± 5.1km 179.858 E ± 5.0km
DEPTH = 479.0km (2 depth phases)
5.1mb (26 obs.)
SOUTH OF FIJI ISLANDS (171)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 21C
Centroid Location:
Origin Time 18:35:46.5 1.1
Lat 25.90S 0.12 Lon 179.76E 0.10
Dep 464.3 5.4 Half-duration 1.7
Moment Tensor; Scale 10**17 Nm
Mrr= 0.09 0.06 Mtt=-0.39 0.12
Mff= 0.30 0.12 Mrt= 0.81 0.13
Mrf=-1.08 0.11 Mtf= 0.63 0.10

47.487 N \pm 2.8km 10.976 E \pm 2.6km
DEPTH = 9.5 \pm 2.2 km
AUSTRIA (546)
ML 3.5 (GRF), 3.4 (KBA), 3.4
(LDG).

	1.0 s	25.00 nm		4.8 mb
MAT	73.15	326 eP	47 17.60	522 kmX
	0.8 s	9.70 nm	46 24.00	-1.9
MAW	76.20	201 eP	46 43.40	0.9
IPM	81.92	279 ePc	47 13.90	0.3
	0.9 s	29.80 nm		4.9 mb
MWC	83.64	47 eP	47 23.00	0.9
BAR	83.67	49 eP	47 22.00	0.0
WHN	83.88	308 eP	47 24.00	1.0
PLM	83.94	48 eP	47 24.00	0.5
RVR	83.96	48 eP	47 24.00	0.6
SBB	84.07	47 eP	47 24.00	0.0
ISA	84.23	46 eP	47 25.00	0.2
CLC	84.89	46 eP	47 28.00	0.0
TPC	84.92	49 eP	47 29.00	0.8
CN2	85.11	324 Pc	47 30.00	1.2
Z	20 s	0.40 um		4.8 Msz
		eS	57 19.00	
GSC	85.11	47 eP	47 30.00	0.9
GLA	85.16	50 eP	47 30.00	0.6
TIY	89.19	313 eP	47 48.60	0.3
Z	16 s	0.60 um		5.1 MszX
PGC	89.52	34 eP	47 50.00	0.6
XAN	89.63	308 Pc	47 51.30	0.9
CHG	90.12	291 eP	47 54.50	1.6
	1.0 s	17.50 nm		4.9 mb
CHTO	90.12	291 iP	47 54.10	1.2
	1.0 s	17.50 nm		4.9 mb
		e	49 01.00	471 km
CD2	91.86	303 P	48 02.00	1.3
PNT	91.89	35 eP	48 01.00	0.6
ALO	92.05	52 eP	48 02.00	0.3
	0.9 s	5.67 nm		4.6 mb
		eP diff	49 52.00	487 km
YKA	101.87	26 eP diff	48 57.50	12.3X
	0.6 s	0.30 nm		
FRB	122.11	29 ePKP	53 43.00	-0.5
KAF	139.33	341 ePKP	54 07.80	-8.5X
NUR	141.09	341 iPKP	54 13.50	-6.0X
		i	57 11.00	
UPP	143.52	345 iPKP	54 20.40	-3.2X
NB2	143.65	351 PKP	54 21.10	-2.9X
	0.9 s	15.10 nm		
HFS	144.10	348 ePKP	54 22.20	-2.5
	0.8 s	30.60 nm		
		e	57 21.00	
BHL	147.93	294 PKP	54 35.00	3.1X
EKA	150.13	3 PKP	54 40.00	5.6X
	1.5 s	18.80 nm		
MLR	151.09	320 ePKP	54 42.00	5.6X
KSP	151.73	338 iPKP	54 44.00	7.0X
		e	56 41.00	
CLL	152.35	342 iPKPc	54 45.20	7.4X
	0.9 s	17.00 nm		
		e	54 58.00	
BRG	152.46	341 iPKP	54 45.50	7.5X
	1.4 s	17.00 nm		
		e	56 48.40	
	S.D. = 1.1	on 68 of 82 obs.		
* APR 25, 1991 19h 06m 37.59 ± 1.41 s				
3.091 N ± 13.3 km 79.303 W ± 11.7 km				
DEPTH = 29.9 ± 8.5 km				
3.9 mb (1 obs.)				
SOUTH OF PANAMA				(83)
ANCC	2.47	80 iPc	07 16.60	-0.1
CUMC	2.55	146 ePc	07 18.12	-0.2
HOQC	2.69	82 iPc	07 19.72	-0.3
CLMC	2.85	74 ePc	07 22.53	0.4
SILC	2.99	98 eP	07 24.91	0.5
PURC	3.04	105 eP	07 25.32	0.1
HOBC	3.40	68 eP	07 29.55	-0.5
YKA	64.80	343 eP	17 15.60	0.1
	0.6 s	0.60 nm		3.9 mb
	S.D. = 0.5	on 8 of 8 obs.		
APR 25, 1991 20h 05m 32.77 ± 0.28				

MOTA	0.17	149	iPg	05	35.10	-1.5
			iSg	05	37.30	
SOTA	0.31	149	iPg	05	37.60	-1.6
			iSg	05	41.80	
WATA	0.43	110	iPg	05	40.30	-1.4
			iSg	05	48.00	
WTTA	0.50	116	iPg	05	41.20	-1.8
			iSg	05	49.60	
OGA	0.62	177	iPg	05	43.20	-2.1
SCE	0.67	132	iPg	05	44.30	-2.0
FUR	0.71	16	iPg	05	47.80	1.0
OSS	0.98	216	iP	05	50.00	-1.6
BHG	1.31	79	eP	05	58.60	1.6
VDL	1.44	226	eP	05	58.90	-0.2
LLS	1.48	246	iPd	06	01.10	1.3
CTI	1.51	162	P	05	59.60	-0.5
FVI	1.52	125	P	06	00.00	-0.1
			eSn	06	24.20	
KBA	1.66	103	iPn	06	02.80	0.5
			iPg	06	04.30	
			i	06	26.90	
			iSg	06	30.60	
SLE	1.70	280	eP	06	03.70	1.0
STU	1.75	318	ePn	06	05.00	1.5
	0.6s	17.33nm	e(Pg)c	06	08.50	
ZLA	1.75	271	ePd	06	07.50	4.0X
VVI	1.80	146	P	06	07.20	3.0X
			eSn	06	32.20	
SAL	1.91	190	P	06	08.90	3.3X
			eSn	06	35.10	
FEL	2.04	282	ePn	06	07.51	-0.2
WET	2.09	37	iPn	06	09.10	0.7
KMR	2.20	74	ePn	06	13.00	3.0X
			iPg	06	19.90	
			iSg	06	47.00	
GRF	2.21	4	ePn	06	09.80	-0.3
			ePg	06	16.50	
			eSg	06	46.70	
KHC	2.39	46	Pn	06	13.50	0.8
			ePg	06	21.20	
			e	06	42.00	
			Sg	06	48.20	
VOY	2.48	125	ePn	06	15.70	1.7
			eSn	06	50.60	
MMK	2.52	236	ePd	06	16.50	1.8
TOD	2.56	327	ePn	06	15.14	0.0
CDF	2.65	292	Pn	06	16.80	0.3
			Pg	06	23.60	
			Sg	06	58.60	
DIX	2.82	241	iPd	06	20.90	1.8
LJU	2.84	119	eP	06	25.00	6.0X
			e(Sn)	07	01.00	
			e	08	14.00	
BSF	2.85	279	Pn	06	20.10	0.8
			Pg	06	28.00	
			Sg	07	03.30	
HOF	2.89	12	iPn	06	26.20	6.4X
BOB	2.92	202	P	06	22.40	2.2
CEY	2.95	125	ePn	06	22.70	2.1
			eSn	07	01.40	
EMS	3.12	244	iPd	06	24.00	0.9
HAU	3.17	281	Pn	06	24.20	0.5
			Pg	06	33.10	
			Sg	07	14.40	
RIY	3.19	131	eP	06	25.00	1.1
MOX	3.19	7	ePn	06	22.50	-1.5
			iPg	06	36.50	
			iSn	07	02.00	
			iSg	07	17.00	
TNS	3.21	330	ePn	06	24.50	0.2
MME	3.30	183	P	06	26.50	0.7
ABH	3.30	318	ePn	06	25.91	0.3
LSD	3.33	234	P	06	27.90	1.7
PCP	3.40	211	P	06	29.13	2.1
RUP	3.42	312	ePn	06	27.97	0.7
BDI	3.44	185	P	06	28.90	1.3
PRU	3.44	42	Pn	06	27.20	-0.3
			Pg	06	37.40	

25d 20h

RSP	3.48	229	P	06 27.70	-0.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
-----	------	-----	---	----------	------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

CD2	eS	31 40.00		GRF	84.73 323 eP	36 44.80 -0.7	LPB	7.15 121 P	04 39.00 -0.3	
	18.02 297 P	28 21.20 -0.4		KBA	84.84 320 e(P)	36 43.00 -2.0	CCH	9.19 120 P	05 06.40 -0.8	
	0.8s	50.00nm	4.7mb		1.1s	5.80nm	4.7mb	SIV	13.35 105 P	06 02.60 0.3
Z	15s	2.70um	5.1Msz	PNT	88.48 35 eP	37 04.00 1.5	YKA	81.43 342 eP	15 03.20 0.0	
	S			SES	92.09 31 eP	37 20.00 0.7		0.8s	1.00nm	3.7mb
KMI	18.05 278 Pc	28 24.00 1.8		FRB	92.10 5 eP	37 18.00 -1.0		S.D. = 0.6	on 8 of 8 obs.	
	2.0s	70.00nm	4.4mb	FFC	92.79 24 ePc	37 22.30 -0.1		* APR 26, 1991 03h 34m 20.08±0.90s		
	SP	28 38.50			1.1s	16.00nm	5.4mb		43.230 N ± 7.1km	20.763 E ± 11.0km
HHC	19.15 334 P	28 36.00 0.6		SEG	139.64 6 ePKP	43 56.87 17.9X			DEPTH = 10.0km (geophysicist)	(383)
	Z 16s	5.70um		ZOBO	167.37 54 PKP	44 20.20 3.1X			YUGOSLAVIA	
N	14s	3.30um			Z 20s	0.09um			MG 2.9 (BEO).	
E	15s	2.00um		LPB	167.55 55 PKP	44 29.00 12.0X				
	SP	28 46.00			S.D. = 1.1	on 64 of 70 obs.				
BTO	19.60 331 P	28 40.00 -0.6								
	N 14s	5.10um		? APR 26, 1991 00h 43m 46.18±0.94s			SKO	1.35 158 iPg	34 44.80 -0.2	
E	14s	3.20um		16.084 N ± 11.0km	61.345 W ± 11.2km		BEO	iSg	35 03.00	
	PP	28 47.00		DEPTH = 33.0km (normal)				ePn	34 48.50 0.0	
CN2	19.88 6 eP	28 42.00 -1.4		LEEWARD ISLANDS		(92)	VTS	iSg	35 11.50	
	1.0s	50.00nm	4.8mb	ML 2.6 (FDF).				iS	34 53.00 -0.1	
Z	15s	9.30um	5.0Msz	MGG	0.17 171 eP	43 52.01 -0.4	OHR	ePn	35 16.00	
N	12s	2.20um			S	44 00.50	KKB	ePn	34 56.20 0.2	
E	12s	1.40um		PAG	0.33 261 eP	43 54.60 0.2	VAY	ePn	34 57.00 -0.1	
	ePP	28 48.00			S	44 07.40	PGB	iP	34 59.00 -0.1	
LZH	20.13 311 Pc	28 46.00 -0.3		DEG	0.36 50 eP	43 54.90 0.2	MMB	eP	35 03.00 0.2	
	1.5s	160.00nm	5.1mb		S	44 10.00	MMB	eP	35 12.00 7.1X	
Z	19s	3.44um	4.7Msz	BPA	1.08 333 eP	44 04.51 -0.5	RZN	eP	35 18.00 4.9X	
N	11s	1.22um			S.D. = 0.7	on 4 of 4 obs.	PVL	eS	35 10.00 -3.4X	
	PP	28 52.50		? APR 26, 1991 00h 56m 39.43±17.29s				eS	36 02.00	
	SP	28 56.50		15.054 N ± 133.km	99.096 W ± 57.6km			S.D. = 0.2	on 7 of 10 obs.	
	PP	29 05.00		DEPTH = 33.0km (normal)			* APR 26, 1991 03h 49m 37.59±1.36s			
	eS	32 30.00		OFF COAST OF GUERRERO, MEXICO (65)			9.125 S ± 18.5km	121.270 E ± 14.5km		
	SS	32 39.00					DEPTH = 33.0km (normal)			
MDJ	21.34 14 eP	29 03.50 5.0X		OXX	3.04 48 iP	57 26.50 -0.1		4.6mb (3 obs.)		
	1.0s	500.00nm	5.9mb X		(S)	58 05.92	SAVU SEA		(288)	
Z	16s	2.20um	4.6MszX	I II	3.32 354 iP	57 30.11 -0.4	KNA	9.84 133 eP	51 58.00 -2.0	
N	12s	1.30um			iS	57 58.71		0.3s	24.00nm	5.9mb X
E	12s	2.20um		PPM	4.02 6 eP	57 40.27 -0.4		eS	53 42.00	
	SP	29 13.50			iS	58 16.00	MTN	iPd	52 06.50 -0.6	
CHTO	22.56 261 eP	29 12.00 1.2		IIT	4.02 11 (P)	57 41.69 1.2	MBL	eP	52 25.00 -5.0X	
	1.0s	11.25nm	4.3mb		(S)	58 22.74		eS	54 28.00	
GTA	24.59 314 P	29 30.80 0.2		I IA	4.09 6 (P)	58 20.56 39.3X	NANU	eP	53 07.50 5.7X	
	1.0s	50.00nm	5.0mb	IISM	4.24 23 iP	57 42.56 -0.8		eS	55 34.00	
Z	15s	2.60um	4.8MszX		(S)	58 32.01	MEKA	eP	53 42.00 0.1	
E	15s	2.70um		MRX	5.04 337 iP	58 01.91 7.2X		eS	56 40.00	
	PP	29 41.80			iS	58 48.42	WARB	eP	53 43.00 -0.5	
	SP	29 48.00		LVVM	5.30 28 (P)	58 13.00 14.7X	ASPA	eP	53 57.80 0.4	
LSA	28.52 288 P	30 08.80 1.5			S.D. = 1.1	on 5 of 8 obs.		0.9s	27.80nm	4.5mb
KKN	33.65 285 P	30 51.46 -0.8			* APR 26, 1991 01h 45m 32.38±2.26s			iS	57 16.50	
WMO	34.67 313 Pd	31 01.00 0.2			42.828 N ± 14.7km	0.762 W ± 8.0km	OIS	21.03 125 iPc	54 22.80 1.7	
	1.0s	100.00nm	5.7mb		DEPTH = 10.0km (geophysicist)			0.4s	19.00nm	4.8mb
Z	13s	1.10um	4.8MszX	PYRENEES		(378)		i	54 25.60	
N	12s	1.80um		MD 1.0 (STR).				i	54 36.00	
E	12s	2.40um						eS	58 08.00	
	SP	31 10.50		LHE	0.13 50 Pg	45 35.49 -0.2	STK	29.47 143 eP	55 42.30 1.5	
YAK	38.30 5 eP	31 21.60 -9.4X			Sg	45 37.31		0.5s	5.30nm	4.5mb
NDI	40.70 287 eP	31 51.00 -0.3		ISSF	0.20 353 Pg	45 36.55 -0.3	BRS	34.84 126 iPc	56 31.50 3.6X	
KOD	45.00 260 eP	32 27.50 0.6			Sg	45 39.71		i(Pp)	56 43.00 42kmX	
GAR	46.36 302 iP	32 37.60 0.4		ATE	0.26 10 Pg	45 37.72 -0.2		e	56 50.00	
QIS	47.32 158 iPd	32 45.70 1.0		ESCF	0.29 29 Pg	45 38.54 0.2	GBA	49.02 297 P	58 23.00 -0.6	
ASPA	48.66 166 iPd	32 56.00 0.9			Sg	45 41.81	LPB	152.87 160 ePKP	09 54.00 27.2X	
	0.5s	17.70nm	5.3mb	MADF	0.32 352 Pg	45 39.67 0.6	ZOBO	153.11 160 ePKP	09 38.00 10.6X	
QUE	49.47 290 eP	33 02.30 0.7			Sg	45 43.98	SIV	154.94 175 ePKP	09 54.00 24.9X	
WARB	50.06 175 eP	33 06.00 0.2		BOH	0.33 326 Pg	45 39.17 -0.1		S.D. = 1.4	on 8 of 14 obs.	
STK	58.49 161 iPc	34 08.00 0.6		JAU	0.36 54 Pg	45 39.76 0.0		* APR 26, 1991 03h 55m 08.83±0.25s		
	0.6s	2.30nm	4.4mb	OGE	0.40 32 Pg	45 40.47 -0.1		45.055 N ± 1.8km	7.588 E ± 2.8km	
TAB	65.14 302 eP	34 52.00 -0.3		EPF	0.83 76 Pg	45 48.70 0.2		DEPTH = 15.6 ± 3.5 km		
SOD	70.32 336 iP	35 24.10 0.0			Sg	45 59.50		NORTHERN ITALY		(545)
KAF	71.91 331 iP	35 33.30 -0.4			S.D. = 0.3	on 9 of 9 obs.		ML 3.0 (LDG).	3.0 (GEN).	
	0.4s	1.10nm	4.2mb	* APR 26, 1991 02h 02m 55.08±0.80s			RSP	0.25 293 P	55 15.37 0.7	
	eSP	35 34.50		12.948 S ± 33.4km	74.502 W ± 19.7km			S	55 19.57	
INK	72.92 22 eP	35 38.50 -1.1		DEPTH = 89.4 ± 22.1 km			LSD	0.51 323 P	55 19.68 0.6	
NUR	73.17 329 eP	35 40.30 -0.8		3.7mb (1 obs.)				S	55 26.03	
HRI	74.71 300 eP	35 51.50 0.7		PERU		(116)	RRL	0.59 257 P	55 20.80 0.4	
BBTK	74.88 307 iPd	35 52.00 0.4						S	55 27.98	
	e	36 00.00		NNA	2.48 292 iPd	03 34.50 0.2	DOI	0.60 204 Pd	55 20.60 0.0	
JVI	75.46 299 eP	35 56.00 0.9			0.7s	184.93nm		eSg	55 28.80	
RMN	76.52 298 eP	36 01.00 -0.1			iS	04 04.00	BNI	0.65 270 P	55 22.00 0.6	
UPP	76.67 330 iP	36 01.00 -0.2			iS	04 05.20		eSg	55 29.70	
VRI	77.01 314 eP	36 03.00 -0.4			iS	04 03.50 0.3	PZZ	0.65 212 P	55 21.21 -0.2	
MLR	77.66 314 eP	36 07.00 -0.2			iS	04 04.00		S	55 28.90	
NB2	78.95 332 P	36 12.40 -1.4		ZOBO	7.00 119 P	04 37.90 0.5	LPG	0.74 307 Pg	55 23.00 -0.1	
	0.9s	5.40nm	4.6mb					Sg	55 32.50	
SKO	82.05 312 iP	36 29.90 -0.7					LPL	0.76 308 Pg	55 23.50 0.1	
YKA	82.64 23 eP	36 33.00 -0.2						Sq	55 32.50	
	0.7s	1.90nm	4.3mb							
OHR	82.85 312 eP	36 34.00 -0.8								
KHC	83.69 321 P	36 39.00 0.1								

26d 0.3h

ROB	0.79	165	P	Sg	55	25.01	1.3
STV	0.83	193	P	Sg	55	35.67	-0.3
ENR	0.84	188	P	Sg	55	24.39	-0.2
PCP	0.85	127	P	Sg	55	34.75	1.6
FIN	0.95	152	P	Sg	55	38.24	1.3
MMK	1.03	15	eP	Sg	55	27.80	-0.2
DIX	1.03	353	iP	Sg	55	28.20	0.1
AUTN	1.07	186	Pg	Sg	55	28.26	-0.3
SAOF	1.07	181	Pg	Sg	55	28.52	0.0
TOUF	1.07	193	Pg	Sg	55	27.98	-0.7
EMS	1.12	336	ePc	Sg	55	30.40	1.0
AURF	1.18	189	Pg	Sg	55	29.95	-0.6
SBF	1.20	185	Pg	Sg	55	30.40	-0.3
FRF	1.64	205	Pn	Sg	55	37.40	0.3
LRG	1.83	209	Pn	Sg	55	40.70	0.9
LMR	1.89	205	Pn	Sg	55	41.20	0.5
CDR	1.90	224	ePn	Sg	55	42.10	1.2
VDL	1.95	42	iP	Sg	55	42.10	0.3
LLS	2.06	28	iP	Sg	55	43.00	-0.5
OSS	2.42	47	iP	Sg	55	48.90	0.4
PGF	2.71	157	Pn	Sg	55	50.80	-1.8
SLE	2.78	13	ePc	Sg	56	21.30	-0.2
BSF	2.83	349	Pn	Sg	55	54.20	-0.1
SMF	3.06	303	Pn	Sg	56	25.40	0.5
HAU	3.07	344	Pn	Sg	55	57.50	-0.1
LBF	3.17	309	Pn	Sg	56	30.80	0.2
LOR	3.41	312	Pn	Sg	55	59.30	-0.1
AVF	3.43	302	Pn	Sg	56	02.30	0.2
SSF	3.48	307	Pn	Sg	56	02.90	0.0
BGF	3.64	296	Pn	Sg	56	39.70	0.0
MAF	3.71	290	Pn	Sg	56	03.40	-1.2
CAF	3.92	270	Pn	Sg	56	05.60	0.6
TCF	3.97	290	Pn	Sg	56	10.30	-0.2
S.D. = 0.7 on 41 of 41 obs.							
% APR 26, 1991 03h 57m 42.25±0.72s 37.016 N ± 7.1km 29.502 E ± 5.5km DEPTH = 10.0km (geophysicist) TURKEY (366)							
MD 3.6 (ISK).							
ELL	0.42	129	iPg	Sg	57	50.70	-0.2
BCK	0.97	63	iPn	Sg	57	56.00	0.4
YER	0.98	277	iPn	Sg	58	01.20	0.1
CIN	1.27	298	ePg	Sg	58	06.00	0.2
KHL	1.31	1	iPn	Sg	58	23.00	-0.4
ALT	2.09	13	ePn	Sg	58	06.10	0.1
DST	2.68	345	ePn	Sg	58	18.00	-0.2
S.D. = 0.3 on 7 of 7 obs.							
% APR 26, 1991 04h 18m 36.45±7.12s 46.437 N ±32.6km 4.410 E ±37.4km DEPTH = 10.0km (geophysicist) FRANCE (538)							
ML 1.9 (LDG).							
SMF	0.44	298	Pg	Sg	18	45.80	0.3
LBF	0.62	332	Pg	Sg	18	50.00	0.0
AVF	0.81	296	Pg	Sg	18	49.00	-0.2
SSF	0.88	315	Pg	Sg	18	51.90	-0.4
LOR	0.91	336	Pg	Sg	18	50.00	0.3
BGF	1.09	277	Pg	Sg	18	57.00	0.1
S.D. = 0.3 on 6 of 6 obs.							
? APR 26, 1991 05h 11m 44.22±2.29s 33.905 N ±18.0km 132.429 E ±22.8km DEPTH = 55.9 ± 19.0 km 4.1mb (1 obs.) SHIKOKU, JAPAN (236) Felt (IV) at Iwakuni.							
SHK	0.66	18	iPc	Sg	11	57.90	0.1
MAT	0.3s	5194.81nm					
SSE	5.4						

ROB	0.82	102	P	57	25.45	0.1	CUT	1.16	357	iPd	17	01.76	-1.1		0.5s	21.70nm	4.5mb
			S	57	37.03		SEW	1.20	163	ePd	17	02.37	-1.1	ADK	17.25	249 eP	20 41.20 -1.0
	S.D. = 0.5	on	7 of	7 obs.			RDT	1.29	239	iPc	17	04.05	-0.8		0.8s	51.60nm	4.7mb
									eS	17	21.86						20 56.30
? APR 26, 1991	06h 09m	34.51±4.95s	NNL	1.34	205	iPd	17	06.08	0.7	MCW	19.92	117 eP	21	11.50	-2.4		
32.332 S ±39.9km	179.544 E ±36.5km		DFR	1.40	243	iPc	17	05.70	-0.8	GMW	20.81	119 eP	21	21.70	-1.4		
DEPTH = 282.1 ± 29.2 km			REF	1.46	240	iPc	17	06.74	-0.7	PNT	20.87	111 ePd	21	21.00	-2.7		
4.4mb (3 obs.)			SCM	1.47	65	ePc	17	06.48	-1.0		0.8s	105.00nm				5.3mb	
SOUTH OF KERMADEC ISLANDS (179)			RDN	1.47	241	iPc	17	06.59	-0.9	EDM	21.22	96 ePd	21	24.50	-2.8		
			KNIM	1.49	126	iPd	17	05.70	-1.9		0.9s	266.00nm				5.6mb	
						eS	17	23.04		BMW	21.47	121 eP	21	28.50	-1.4		
HBZ	5.35	191	eP	10	56.40	0.3	RSO	1.50	239	iPc	17	07.28	-0.6	LON	21.85	119 eP	21 32.50 -1.2
PUZ	5.82	190	P	11	01.90	0.1	RS2	1.50	239	ePc	17	07.31	-0.6	DPW	22.57	112 eP	21 39.30 -1.5
			S	12	18.40		RDW	1.51	241	iPc	17	07.41	-0.7	NEW	22.77	110 iPd	21 41.30 -1.4
MNG	8.89	200	eP	11	38.90	-0.9	NCT	1.52	244	iPc	17	07.53	-0.6		0.8s	104.17nm	5.4mb
			eS	13	25.00		RED	1.53	238	iPc	17	07.56	-0.7			iP	21 54.00 52kmX
MRW	9.69	202	eP	11	50.10	0.3	GLI	1.53	103	ePc	17	06.91	-1.3	VGB	23.27	119 eP	21 47.00 -0.6
			eS	13	42.90		BRLK	1.53	194	eP	17	07.98	-0.3	SES	24.12	99 ePd	21 53.90 -1.9
SNZO	9.76	202	eP	11	51.70	1.1			eS	17	27.10			1.0s	147.00nm	5.5mb	
			S	13	45.00		LTJ	1.66	136	eP	17	08.63	-1.4	FFC	25.84	83 iPd	22 09.00 -3.0
TCW	9.82	204	eP	11	50.40	-0.9			eS	17	29.53			0.9s	85.00nm	5.3mb	
KHZ	11.14	204	eP	12	07.50	-0.2	HUR	1.75	8	eP	17	10.55	-0.8	FHC	25.95	130 eP	22 12.70 -0.5
STK	32.04	260	iPc	15	38.50	1.5	VZW	1.76	95	eP	17	10.26	-1.2	LBFM	26.27	126 eP	22 14.50 -1.9
	0.4s	3.90nm			4.3mb		HOM	1.76	205	eP	17	10.79	-0.7	LRM	26.72	108 ePd	22 18.20 -2.3
ASPA	40.96	270	iPc	16	50.50	-1.2			S	17	32.48		MIN	27.24	127 iPd	22 23.70 -1.5	
	0.5s	7.10nm			4.2mb		MTU	1.77	135	eP	17	09.62	-2.0	ORV	27.97	128 ePd	22 29.10 -2.5
SPA	57.84	180	iPc	18	59.00	0.0	CNPM	1.81	198	iPd	17	11.44	-0.8			ePcP	25 41.60
	0.6s	18.29nm			4.8mb				eS	17	34.05		BRK	29.16	131 iPd	22 40.80 -1.5	
S.D. = 1.1 on 10 of 10 obs.							VLZ	1.85	92	iPc	17	11.55	-1.3	PCC	29.44	131 e(P)	22 42.80 -2.0
& APR 26, 1991	06h 16m	42.92s	XLV	1.96	204	eP	17	13.55	-0.9	CMB	29.72	128 ePd	22	45.40	-2.0		
61.250 N	150.153 W		HIN	1.98	114	ePc	17	12.52	-2.2			ePcP	25	46.70			
DEPTH = 38.2km			KLU	2.05	81	ePc	17	14.00	-1.8	KVN	29.74	124 eP	22	46.10	-1.6		
5.4mb (82 obs.)	4.9Msz (3 obs.)					eS	17	40.15		MHC	29.85	130 ePd	22	47.00	-1.7		
SOUTHERN ALASKA (2)			TOA	2.08	64	iPc	17	16.20	0.0	ARN	29.89	130 eP	22	47.00	-1.9		
<AEIC>. ML 5.3 (AEIC). 5.1			TRF	2.21	358	eP	17	16.80	-1.3	BW06	30.39	109 iPd	22	50.40	-3.1		
(PMR). Some power outages			RND	2.25	15	eP	17	17.59	-1.0		1.3s	76.50nm				5.3mb	
occurred in the Anchorage area.			CVA	2.27	106	ePc	17	16.45	-2.2	SAO	30.44	130 ePd	22	51.40	-2.3		
Felt (V) at Anchorage, Chugiak,			TZL	2.39	68	ePc	17	19.53	-1.0	BONR	30.60	125 eP	22	54.00	-1.5		
Eagle River, Elmendorf Air Force			PDB	2.48	235	iPc	17	20.47	-1.2	LLA	30.75	130 iPd	22	55.30	-1.2		
Base, Kenai, Palmer, Wasilla,			AUE	2.48	222	ePc	17	21.57	-0.2	PRS	30.85	131 ePd	22	55.70	-1.6		
Willow and Whittier; (IV) at			AUH	2.50	222	ePc	17	22.27	0.1	FRI	30.89	128 iPd	22	55.90	-1.7		
Homer, Hope, Skwentna, Soldotna,			AUI	2.52	222	ePc	17	22.15	-0.2			ePcP	25	49.70			
Tolkeetna and Tyonek; (III) at			SDG	2.53	58	ePc	17	21.40	-1.1	TNP	30.92	123 iP	22	56.00	-2.2		
Moose Pass, Ninilchik and			SGAM	2.53	105	ePc	17	19.86	-2.7			e	23	11.90			
Sutton; (II) at Seward.			MCK	2.56	12	ePd	17	22.42	-0.4	DUG	31.00	116 eP	22	56.50	-2.3		
CENTROID, MOMENT TENSOR (HRV)			MID	2.63	132	eP	17	21.90	-2.0		0.8s	20.83nm				5.0mb	
Data Used: GDSN						i	17	25.70		PRI	31.28	130 iPd	23	00.40	-0.8		
L.P.B.: 19S, 34C			SVW	2.65	269	iPc	17	23.30	-1.0	DAU	31.51	113 eP	23	01.20	-2.3		
Centroid Location:			PAX	2.80	50	ePc	17	25.85	-0.6	RSSD	31.93	101 iPd	23	04.10	-3.0		
Origin Time	06:16:46.0	0.6	RAGM	2.82	105	eP	17	23.88	-2.8		0.6s	98.88nm				5.9mb	
Lat 61.46N 0.09 Lon 150.70W 0.16			SYI	2.88	204	ePd	17	26.26	-1.2	BCH	32.34	130 eP	23	09.00	-1.6		
Dep 36.3 7.7 Half-duration 1.6			CDD	2.91	218	ePc	17	26.90	-1.0	ISA	32.53	127 eP	23	10.00	-2.1		
Moment Tensor: Scale 10**16 Nm			MCNL	2.94	227	iPc	17	27.49	-0.8	MSU	32.67	117 eP	23	11.60	-1.9		
Mrr=-2.61 0.27 Mtt=-0.48 0.38			BWN	2.95	6	eP	17	27.17	-1.3	CLC	32.73	126 eP	23	12.00	-1.9		
Mff= 3.10 0.40 Mrt= 1.10 0.67			THY	2.99	41	eP	17	29.49	0.4	GSC	33.50	125 eP	23	19.00	-1.6		
Mrf= 6.28 1.28 Mtf=-0.95 0.44			HMT	3.03	105	ePc	17	26.51	-3.1	SBB	33.64	127 eP	23	19.00	-2.8		
Principal Axes:			GLB	3.06	84	ePc	17	27.75	-2.3	MWC	33.96	128 eP	23	23.00	-1.7		
T Val= 7.15 Plg=32 Azm=268						eS	18	04.09		PAS	33.98	128 eP	23	23.00	-1.7		
N -0.17 11 6			TTA	3.23	304	iPc	17	31.10	-1.4	RVR	34.42	127 eP	23	26.00	-2.5		
P -6.98 55 112			DDM	3.23	36	ePc	17	33.29	0.8	PEC	34.60	127 ePd	23	27.80	-2.2		
Best Double Couple:Ma=7.1*10**16			WRH	3.37	15	eP	17	33.29	-1.1	GOL	34.75	108 iPd	23	29.00	-2.5		
NP1:Strike=322 Dip=16 Slip=-134			NEA	3.38	8	eP	17	33.07	-1.4		1.1s	20.83nm				5.0mb	
NP2: 188 78 -78			CROM	3.45	95	iPc	17	33.43	-2.3	GLD	34.78	107 ePd	23	29.70	-2.0		
			HDA	3.49	23	eP	17	35.70	-0.4		1.1s	28.93nm				5.1mb	
PMS	0.29	91	iPc	16	51.08	0.1	CCB	3.57	16	eP	17	35.71	-1.6	TPC	34.84	125 eP	23 30.00 -2.1
SUA	0.36	307	iPd	16	51.55	-0.3	TGL	3.60	95	ePc	17	35.27	-2.5	PLM	35.19	127 eP	23 33.00 -2.2
PWA	0.42	18	iPd	16	51.80	-0.7	WAX	3.66	99	eP	17	35.46	-3.2	FR8	35.37	49 eP	23 33.00 -3.2
PLRM	0.60	55	iPc	16	53.89	-1.1	RDS	3.71	13	eP	17	37.14	-2.0		0.5s	28.00nm	5.4mb
PMR	0.60	55	iPc	16	54.40	-0.5	DOT	3.71	47	eP	17	38.06	-1.3	YAK	35.81	307 iPc	23 33.30 -6.7
			eS	17	03.90		BALM	3.79	90	ePc	17	37.64	-2.9			iP</	

	0.4s	33.90nm	5.5mb				i	27 43.00			1.3s	144.00nm	5.8mb	
SCH	41.74	60 eP	24 26.00	-3.4	GTA	64.84	306 P	27 15.40	-4.6		i c	27 53.90		
KUSJ	41.86	275 eP	24 24.50	-5.9		1.0s	20.00nm		5.1mb			27 59.60		
HOOJ	43.08	276 eP	24 35.50	-4.9	Z	20s	0.90um		5.0Msz		i	28 09.10		
FVM	43.19	94 iPd	24 37.20	-4.2			PP	27 30.40		PSZ	70.89	7 eP	27 54.30	-3.2
		e	24 52.60		WMO	65.31	318 P	27 18.50	-4.4	SRO	70.89	8 iP	27 53.80	-3.6
		ePP	26 19.70		WTS	65.61	15 eP	27 20.50	-4.0			i	28 10.20	
ELC	44.32	94 eP	24 46.60	-4.0		1.0s	49.00nm		5.5mb	LIS	70.93	15 eP	27 54.30	-3.6
CLE	44.76	84 iP	24 51.40	-2.7	XAN	65.69	297 P	27 19.50	-5.9	OGA	71.17	14 eP	27 56.10	-3.3
WVLY	45.42	80 eP	24 56.20	-3.2	LZH	66.09	302 Pc	27 22.50	-5.5		0.9s	35.00nm		5.4mb
OFUJ	46.41	274 P	25 03.30	-3.9		1.5s	40.00nm		5.3mb	KBA	71.21	12 iPd	27 55.90	-3.7
CBM	46.89	68 ePd	25 07.20	-3.6	Z	20s	0.97um		5.0Msz		1.2s	154.00nm		5.9mb
BNH	47.24	73 eP	25 09.80	-3.9	N	15s	0.45um					i	27 56.40	
RSCP	47.44	92 ePd	25 11.10	-4.3			SP	27 37.50				i	28 00.70	
MIM	47.76	71 eP	25 14.00	-3.7	WHN	66.25	290 Pd	27 24.50	-4.4	OSS	71.24	14 ePd	27 56.00	-3.8
MDJ	47.84	288 eP	25 13.50	-4.9			PP	27 39.20		VDL	71.36	15 ePd	27 57.10	-3.5
	1.0s	30.00nm		5.3mb	ENN	66.70	16 iPc	27 27.60	-3.9	EMS	71.44	17 ePd	27 57.30	-3.7
		PP	25 29.00			1.2s	97.00nm		5.8mb	DIX	71.49	16 ePd	27 58.70	-2.7
GBTN	48.04	91 eP	25 16.40	-3.6	SNF	66.72	17 P	27 27.70	-3.9	LF	71.57	21 eP	27 57.70	-3.8
TKL	48.26	90 eP	25 18.20	-3.5	MEM	66.87	16 Pd	27 28.30	-4.2		1.1s	56.15nm		5.5mb
NAV	48.37	86 eP	25 18.70	-3.9	CLL	66.98	11 iPd	27 29.20	-4.1	MMK	71.60	16 ePc	27 59.10	-2.9
AKU	48.49	24 iP	25 21.10	-2.0		1.2s	54.00nm		5.5mb	RSI	71.77	17 P	27 59.03	-3.9
	1.0s	64.00nm		5.6mb			iP	27 44.30	54kmX	CAF	71.81	20 eP	27 59.00	-4.0
		i	25 37.80		DOU	67.17	17 P	27 31.00	-3.5		1.1s	22.00nm		5.1mb
TBR	48.51	78 eP	25 19.70	-3.9	MOX	67.50	12 iPd	27 32.50	-4.1	LPO	71.89	21 eP	27 59.50	-4.0
LVNJ	48.51	79 eP	25 19.80	-3.8		1.0s	91.00nm		5.8mb		1.2s	53.55nm		5.4mb
BLA	48.64	86 ePd	25 20.90	-3.8			e	27 48.00		LPL	71.95	17 eP	28 00.90	-3.2
	0.8s	30.20nm		5.4mb	BRG	67.50	11 iPd	27 31.80	-4.8		1.0s	29.00nm		5.2mb
PNJ	48.73	78 iP	25 21.70	-3.5		1.3s	68.00nm		5.6mb	LPG	71.97	17 eP	28 01.10	-3.3
		e	26 45.90				i	27 49.00			1.2s	53.55nm		5.4mb
CVL	48.97	84 eP	25 23.80	-3.3	FLN	67.66	21 eP	27 33.10	-4.5	CTI	72.05	13 P	28 00.50	-4.0
CBN	49.32	83 eP	25 26.40	-3.4		1.2s	62.50nm		5.6mb	LSO	72.07	17 P	28 01.66	-3.2
	1.0s	35.00nm		5.3mb	KSP	67.73	9 iPd	27 34.00	-4.0	UZD	72.13	8 P	28 01.60	-3.2
		e	25 47.00			0.9s	60.00nm		5.7mb	VOY	72.30	12 eP	28 01.40	-4.6
MAT	50.09	275 eP	25 31.00	-4.8	ABH	67.78	15 eP	27 33.67	-4.7	RSP	72.38	17 P	28 02.89	-3.7
	0.8s	39.55nm		5.5mb	HOF	67.86	12 eP	27 34.60	-4.3	RRL	72.54	17 P	28 04.63	-3.0
		(S)	32 48.00			0.9s	37.00nm		5.5mb	PTJ	72.61	10 eP	27 58.60	-9.3
CHJJ	50.11	274 P	25 31.70	-4.2	LDF	67.88	21 eP	27 34.50	-4.5	CEY	72.64	11 eP	28 02.50	-5.4
PRM	50.21	90 eP	25 33.10	-3.6		1.3s	61.35nm		5.5mb	VBY	72.95	11 eP	28 05.00	-4.7
CN2	50.36	291 Pc	25 32.00	-5.8	GRR	67.95	22 eP	27 35.10	-4.3	PZZ	73.00	17 P	28 07.09	-3.1
	1.0s	70.00nm		5.6mb		1.1s	34.20nm		5.3mb	PCP	73.16	16 P	28 06.17	-4.8
Z	24s	0.90um		4.7MszX	LPF	68.26	22 eP	27 37.40	-3.9	GYA	73.20	294 iPd	28 07.20	-4.4
		ePP	25 48.00			1.0s	46.00nm		5.5mb			PP	28 22.80	
		eSP	25 54.00		GRF	68.40	13 ePd	27 38.30	-4.0			S	37 29.00	
		eS	32 40.00			1.1s	48.00nm		5.5mb			SS	37 58.00	
JSC	50.59	89 eP	25 35.80	-3.7			e(pP)	27 54.00	57kmX	STV	73.28	17 P	28 07.09	-4.7
SOD	51.66	2 iP	25 42.40	-4.9			e(sP)	28 01.50		ROB	73.31	16 P	28 06.79	-5.1
SGS	51.83	89 eP	25 45.50	-3.5	PRU	68.44	11 ePd	27 38.60	-3.8	ENR	73.31	17 P	28 06.99	-5.0
TSRJ	51.97	276 P	25 45.70	-4.3		1.1s	33.60nm		5.3mb	FIN	73.44	16 P	28 07.30	-5.3
HBF	52.11	89 eP	25 47.70	-3.4	KRA	68.76	7 iP	27 40.50	-3.9	SBF	73.67	17 eP	28 10.10	-3.9
SNY	52.76	290 iPc	25 51.00	-4.9		1.1s	63.00nm		5.6mb		0.8s	55.05nm		5.6mb
	0.8s	100.00nm		5.8mb			i	27 45.00		CMP	73.77	4 ePc	28 13.00	-1.5
MRX	53.67	118 iP	26 01.20	-1.5	CDF	69.19	16 eP	27 43.20	-4.0	LMR	74.06	17 eP	28 12.60	-3.6
PPM	55.34	116 iP	26 13.00	-2.6		1.0s	34.00nm		5.3mb		1.2s	53.55nm		5.4mb
IIT	55.52	116 (P)	26 13.80	-2.8	KHC	69.20	11 iPd	27 43.50	-3.7	SFI	74.17	13 P	28 13.80	-2.9
ILI	55.58	117 iP	26 12.20	-4.8		1.2s	32.50nm		5.2mb	PGD	74.20	14 P	28 14.50	-2.7
IISM	55.95	115 iP	26 16.70	-2.7	HAU	69.46	17 eP	27 44.80	-4.0	GAR	74.81	328 eP	28 16.10	-4.6
KAF	56.93	2 iP	26 20.70	-5.2		0.9s	39.30nm		5.4mb	PGF	75.18	16 eP	28 18.70	-4.1
	0.6s	5.80nm		4.8mb	SPC	69.64	7 eP	27 45.20	-4.9		1.0s	60.00nm		5.5mb
		eSP	26 21.20		BSF	69.69	16 eP	27 46.10	-4.2	TOL	75.51	26 iPc	28 22.00	-2.6
NB2	57.20	11 P	26 22.40	-5.6		0.8s	30.90nm		5.4mb		1.2s	93.75nm		5.6mb
	0.9s	31.20nm		5.4mb	MFF	69.80	22 eP	27 46.80	-4.0	PVL	75.82	3 iP	28 22.00	-4.3
BJI	57.51	295 eP	26 25.50	-4.8		1.0s	44.00nm		5.4mb	TPT	76.00	177 iP	28 24.00	-3.5
	1.0s	26.00nm		5.2mb	LOR	69.82	19 eP	27 46.70	-4.3		0.9s	35.00nm		5.3mb
OXX	57.92	115 eP	26 31.80	-1.9		0.9s	49.95nm		5.5mb	PMO	76.02	178 iP	28 24.20	-3.3
NUR	58.50	3 iP	26 31.90	-5.1	FUR	69.92	13 iPc	27 48.20	-3.3		0.9s	30.00nm		5.3mb
	0.9s	54.10nm		5.7mb		0.7s	48.00nm		5.6mb	RUV	76.21	177 iP	28 25.30	-3.3
HHC	58.84	299 eP	26 35.00	-4.7	SSF	69.96	19 eP	27 47.70	-4.1		0.9s	40.00nm		5.4mb
	1.0s	20.00nm		5.2mb		1.0s	65.00nm		5.6mb	VAH	76.25	177 iP	28 25.60	-3.3
UPP	58.85	7 iP	26 34.40	-5.0	SLE	69.98	15 ePd	27 47.70	-4.2		0.9s	35.00nm		5.4mb
BTO	59.70	300 eP	26 40.00	-5.7	LBF	70.11	19 eP	27 48.30	-4.5	VTS	76.37	5 eP	28 25.00	-4.6
EKA	60.88	21 Pd	26 48.70	-4.7		1.0s	34.00nm		5.3mb	PGB	76.45	4 iP	28 26.00	-3.9
	0.9s	26.60nm		5.4mb	AVF	70.20	19 eP	27 49.00	-4.3	LSA	76.73	308 P	28 29.80	-2.4
TIY	61.07	296 Pd	26 50.00	-5.0		1.0s	40.00nm		5.4mb	TOV	76.84	94 iPc	28 30.30	-2.2
	Z 14s	0.59um		4.9MszX	BGF	70.35	19 eP	27 49.70	-4.5	SKO	76.91	6 iPc	28 29.00	-3.4
	N 13s	0.29um				1.2s	50.60nm		5.4mb		1.2s	71.00nm		5.6mb
SSE	62.64	285 eP	27 00.70	-4.8	SMF	70.42	19 eP	27 50.30	-4.3			i	28 45.60	
	Z 20s	0.50um		4.7Msz		1.2s	62.50nm		5.5mb	KKB	77.09	5 iP	28 29.00	-4.4
		PP	27 16.50		ZST	70.43	9 iP	27 50.90	-3.7	SDV	77.22	95 eP	28 31.30	-3.4
NJ2	62.92	288 Pd	27 02.00	-5.3			i	28 07.30		RZN	77.33	4 iP	28 32.00	-3.0
	0.9s	100.00nm		5.9mb	TCF	70.51	20 eP	27 50.80	-4.4	OIZ	78.21	288 P	28 35.80	-4.1
		PP	27 18.00			1.3s	28.90nm		5.1mb	MAIO	79.83	336 eP	28 45.00	-3.6
QBN	63.87	356 iP	27 08.40	-4.9	CD2	70.59	299 P	27 51.00	-5.0	GUN	80.30	312 P	28 47.68	-3.8
	1.2s	*****nm		8.6mb X	MAF	70.63	20 eP	27 51.70	-4.2	KKN	80.62	312 P	28 48.62	-4.5
		i	27 28.00			1.2s	25.30nm		5.1mb		0.6s	25.00nm		5.4mb
		i	27 32.00		SOTA	70.84	13 iPd	27 53.60	-3.7	GKN	80.66	313 P	28 49.00	-4.2

DMN 80.85 312 P 28 50.52 -3.8
 IFR 81.37 29 iPc 28 54.00 -2.8
 NDI 82.52 319 eP 28 59.00 -3.6
 0.6s 20.00nm 5.3mb
 CHG 83.27 297 eP 29 02.00 -4.7
 0.9s 9.03nm 4.9mb
 LOE 83.30 294 eP 29 01.00 -5.8
 PRNI 88.64 356 iPc 29 30.00 -3.1
 GBA 96.46 314 P 30 22.00 12.8
 SLR 144.48 2 iPKPc 36 11.50 -4.9
 1.3s 55.77nm
 SPA 151.09 180 iPKPd 36 28.00 2.4
 1.0s 67.50nm
 310 obs. associated

& APR 26, 1991 06h 24m 35.90s
 61.242 N 150.197 W
 DEPTH = 39.1km
 4.2mb (2 obs.)
 SOUTHERN ALASKA (2)
 <AEIC>. ML 4.0 (AEIC), 4.0
 (PMR). Felt in the Anchorage
 area.

PMS 0.31 89 iPc 24 44.33 0.1
 SUA 0.34 310 iPd 24 44.70 -0.1
 eS 24 51.32
 PWA 0.44 20 iPd 24 45.22 -0.5
 PLRM 0.62 55 iPd 24 47.32 -0.9
 eS 24 56.89
 PMR 0.62 55 iPd 24 47.80 -0.5
 NKA 0.71 226 iPd 24 50.55 1.0
 SLKM 0.74 181 iPd 24 49.05 -0.9
 GH0 0.81 48 iPd 24 50.03 -1.0
 KNK 0.86 78 iPc 24 50.98 -0.7
 eS 25 03.29
 CGLM 0.88 275 eP 24 51.48 -0.5
 eS 25 03.82
 SPU 0.90 267 iPc 24 51.28 -1.0
 CRP 0.95 272 iPc 24 52.46 -0.6
 NCG 0.96 281 iPc 24 52.48 -0.7
 SKT 0.98 320 iPc 24 52.56 -0.8
 eS 25 06.19

CKL 1.04 268 iPc 24 53.46 -0.8
 SML 1.06 57 ePd 24 53.56 -0.9
 BGL 1.06 272 iPc 24 53.78 -0.8
 CUT 1.17 358 iPd 24 55.21 -0.8
 SEW 1.20 162 ePc 24 55.21 -1.2
 RDT 1.22 239 iPc 24 56.75 -0.8
 eS 25 13.48
 >NNL 1.32 205 iPd 24 58.40 0.2
 DFR 1.38 243 iPc 24 58.27 -0.8
 REF 1.44 239 iPc 24 59.40 -0.7
 RDN 1.45 241 iPc 24 59.21 -1.0
 RSO 1.48 239 iPc 24 59.90 -0.7
 RS2 1.48 239 iPc 24 59.92 -0.7
 RDW 1.49 240 iPc 25 00.03 -0.7
 SCM 1.50 65 ePc 24 59.75 -1.0
 NCT 1.50 244 iPc 25 00.16 -0.7
 eS 25 19.07

KNIM 1.50 126 ePc 24 58.44 -2.3
 RED 1.51 238 iPc 25 00.22 -0.7
 BRLK 1.52 193 eP 25 00.02 -1.1
 GLI 1.55 102 iPc 24 59.73 -1.8
 eS 25 19.46

LTl 1.67 135 eP 25 01.16 -2.0
 HUR 1.76 8 eP 25 03.74 -0.8
 eS 25 24.46

VZW 1.78 94 ePc 25 03.24 -1.5
 eS 25 25.60

CNPM 1.80 197 iPd 25 03.85 -1.2
 eS 25 26.01

VLZ 1.88 92 iPc 25 04.56 -1.5
 eS 25 27.50

XLV 1.95 204 eP 25 05.83 -1.3
 KLU 2.08 81 ePc 25 07.24 -1.8
 eS 25 33.92

TOA 2.11 64 iPd 25 09.70 0.2
 TRF 2.22 359 eP 25 11.03 -0.1

RND 2.26 16 ePd 25 11.30 -0.4
 CVA 2.28 106 ePc 25 09.52 -2.4

TZL 2.42 68 eP 25 12.62 -1.2
 PDB 2.46 235 iPd 25 12.85 -1.6
 AUE 2.46 221 eP 25 13.49 -1.0

AUH 2.48 222 eP 25 14.12 -0.7
 AUI 2.50 221 eP 25 14.00 -1.0
 SGAM 2.55 105 ePc 25 12.90 -2.9

SDG 2.55 58 eP 25 14.22 -1.6
 MCK 2.57 13 eP 25 16.10 0.0
 SVW 2.63 269 iPc 25 15.90 -1.1
 MID 2.64 132 eP 25 14.52 -2.6
 PAX 2.82 50 eP 25 19.49 -0.2
 RAGM 2.84 105 ePc 25 16.72 -3.2
 SYI 2.86 204 eP 25 18.54 -1.6
 CDD 2.89 218 ePd 25 19.16 -1.5
 BWN 2.96 6 eP 25 22.11 0.6
 THY 3.01 42 eP 25 23.72 1.4
 HMT 3.05 105 eP 25 19.50 -3.3
 GLB 3.08 83 iPc 25 20.82 -2.5
 TTA 3.22 304 iPc 25 23.90 -1.4
 DDM 3.25 36 eP 25 26.68 1.0
 WRH 3.38 16 eP 25 27.30 -0.3
 NEA 3.39 8 eP 25 27.00 -0.6
 CROM 3.47 95 eP 25 26.28 -2.7
 HDA 3.51 24 eP 25 28.91 -0.4
 CCB 3.59 17 eP 25 29.29 -1.1
 TGL 3.62 95 eP 25 28.14 -2.9
 WAX 3.68 99 ePc 25 28.31 -3.5
 RDS 3.72 14 eP 25 31.30 -1.0
 DOT 3.74 47 eP 25 33.42 0.8
 BALM 3.81 90 ePc 25 30.69 -3.1
 FBA 3.83 16 eP 25 33.30 -0.6
 MDM 3.84 13 eP 25 32.25 -1.8
 GLM 3.97 18 eP 25 34.88 -1.1
 WRG 4.20 103 eP 25 37.08 -2.0
 CTGM 4.31 90 eP 25 38.34 -2.5
 IMA 5.09 344 eP 25 50.60 -1.2
 FYU 5.78 20 eP 26 00.61 -0.7
 ANM 7.68 302 eP 26 26.40 -1.7
 INK 10.01 38 P 27 01.00 0.9
 0.9s 1.70nm 4.3mb
 NB2 57.21 11 P 34 15.10 -5.8
 0.8s 1.50nm 4.1mb
 GUN 80.29 312 P 36 40.00 -4.3
 KKN 80.61 312 P 36 41.60 -4.3
 GKN 80.65 313 P 36 41.80 -4.2
 87 obs. associated

* APR 26, 1991 06h 36m 56.53± 2.71s
 31.734 S ±11.0km 69.418 W ±16.8km
 DEPTH = 108.8 ± 27.7 km
 SAN JUAN PROVINCE, ARGENTINA (137)

RTBS 0.08 337 ePd 37 11.70 -0.2
 RTCB 0.58 65 eP 37 14.80 0.6
 eS 37 28.10
 ZON 0.66 74 eP 37 14.70 0.0
 eS 37 29.70
 RTLL 0.90 64 iPc 37 16.50 -0.5
 S 37 32.70
 CFA 1.01 83 ePc 37 18.10 0.0
 eS 37 35.10
 MDZ 1.24 157 eP 37 20.70 0.0
 iS 37 40.30
 RTRS 1.56 359 iPc 37 24.40 0.1
 S.D. = 0.5 on 7 of 7 obs.

& APR 26, 1991 07h 02m 11.80s
 61.288 N 150.169 W
 DEPTH = 43.5km
 SOUTHERN ALASKA (2)
 <AEIC>. ML 2.6 (AEIC).

PMS 0.30 98 iPc 02 20.14 -0.3
 eS 02 27.11
 SUA 0.33 303 iPd 02 20.63 -0.2
 eS 02 28.26
 PWA 0.39 21 iPc 02 20.85 -0.5
 eS 02 28.20
 PLRM 0.58 58 iPc 02 22.92 -0.9
 eS 02 32.68
 NKA 0.76 224 iPc 02 26.87 0.7
 GH0 0.77 50 iPc 02 25.67 -0.8
 iS 02 37.86
 SLKM 0.78 182 ePd 02 25.38 -1.2
 eS 02 36.75
 KNK 0.84 81 iPc 02 26.76 -0.5
 eS 02 39.03
 SPU 0.92 264 iPc 02 27.49 -1.0
 eS 02 40.62
 SKT 0.95 318 iPd 02 28.37 -0.6
 eS 02 41.74
 CRP 0.96 270 iPc 02 28.62 -0.6
 eS 02 42.28

NCG 0.97 278 iPc 02 28.62 -0.6
 eS 02 41.96
 SML 1.02 58 iPc 02 29.08 -0.9
 eS 02 43.46
 CKL 1.05 266 iPc 02 29.64 -0.8
 eS 02 44.56
 BGL 1.07 270 iPc 02 29.98 -0.7
 CUT 1.12 358 ePd 02 30.82 -0.5
 eS 02 46.20
 SEW 1.24 163 eP 02 31.62 -1.3
 RDT 1.31 238 iPc 02 32.96 -1.0
 eS 02 50.61
 >NNL 1.37 204 ePc 02 35.20 0.4
 DFR 1.41 241 iPc 02 34.58 -0.9
 eS 02 52.89
 SCM 1.47 67 eP 02 35.68 -0.6
 S 02 54.74
 REF 1.48 238 iPc 02 35.62 -0.9
 RDN 1.49 240 iPc 02 35.47 -1.1
 eS 02 54.46
 RSO 1.51 238 ePc 02 36.12 -0.9
 RS2 1.51 238 iPc 02 36.11 -0.9
 KNIM 1.52 127 iPc 02 34.68 -2.3
 RDW 1.52 239 iPc 02 36.29 -0.9
 eS 02 55.88
 NCT 1.53 243 iPc 02 36.43 -0.8
 RED 1.54 237 iPc 02 36.47 -0.9
 eS 02 56.30
 GLI 1.55 104 eP 02 35.91 -1.4
 HUR 1.71 8 eP 02 40.04 0.3
 VZW 1.77 96 eP 02 39.32 -1.2
 CNPM 1.85 197 eP 02 40.58 -1.0
 VLZ 1.86 93 ePc 02 40.46 -1.3
 KLU 2.06 82 iPc 02 43.25 -1.4
 TOA 2.07 65 eP 02 44.67 -0.2
 RND 2.21 16 eP 02 47.07 0.2
 TZL 2.39 69 eP 02 48.83 -0.5
 PDB 2.49 235 eP 02 49.73 -1.1
 SDG 2.52 58 eP 02 50.33 -0.9
 PAX 2.78 51 eP 02 53.32 -1.6
 GLB 3.07 84 eP 02 57.62 -1.4
 42 obs. associated

* APR 26, 1991 07h 47m 37.60± 1.08s
 41.067 N ± 8.2km 29.290 E ±17.3km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

GBZT 0.30 157 ePg 47 43.00 -0.9
 iSg 47 44.20
 HRT 0.38 130 iPg 47 45.70 0.3
 YLV 0.50 173 iPg 47 48.30 0.5
 IZI 0.74 169 iPg 47 52.30 0.1
 CFR 4.20 349 ePd 48 43.00 0.0
 S.D. = 0.8 on 5 of 5 obs.

& APR 26, 1991 08h 07m 53.43s
 61.270 N 150.146 W
 DEPTH = 40.3km
 SOUTHERN ALASKA (2)
 <AEIC>. ML 2.6 (AEIC).

PMS 0.28 95 iPd 08 01.58 0.0
 SUA 0.35 304 iPd 08 02.08 -0.3
 eS 08 09.23
 PWA 0.40 18 ePc 08 02.24 -0.7
 S 08 09.33
 PLRM 0.59 56 iPc 08 04.44 -0.9
 eS 08 13.54
 NKA 0.75 226 ePc 08 08.48 0.9
 SLKM 0.77 183 ePd 08 06.95 -1.0
 GH0 0.77 49 iPc 08 07.22 -0.8
 KNK 0.83 79 eP 08 08.45 -0.3
 SPU 0.93 265 iPc 08 09.10 -1.1
 eS 08 22.12
 CRP 0.97 271 iPc 08 10.28 -0.6
 eS 08 23.11
 SKT 0.97 318 iPc 08 09.97 -0.8
 eS 08 23.35
 NCG 0.98 279 iPc 08 10.30 -0.7
 eS 08 23.90
 SML 1.02 57 iPc 08 10.67 -0.9
 CKL 1.06 267 iPc 08 11.30 -0.9
 eS 08 25.70
 BGL 1.08 271 iPc 08 11.65 -0.8
 CUT 1.14 357 eP 08 12.55 -0.6
 SEW 1.22 163 eP 08 13.29 -1.0

26d 08h

RDT	1.31	239	iPc	08 29.62	-0.9
			eS	08 14.65	
NNL	1.36	205	eP	08 16.84	0.6
DFR	1.41	242	iPc	08 16.26	-0.9
			eS	08 34.27	
SCM	1.46	66	eP	08 17.33	-0.5
REF	1.48	239	iPc	08 17.31	-0.8
			eS	08 36.70	
RDN	1.49	240	iPc	08 17.17	-1.0
KNIM	1.50	127	ePd	08 16.29	-2.0
RSO	1.51	239	ePc	08 17.82	-0.8
RS2	1.51	239	ePc	08 17.88	-0.8
RDW	1.52	240	ePc	08 17.97	-0.8
GLI	1.53	103	ePc	08 17.50	-1.3
			eS	08 36.75	
NCT	1.53	244	iPc	08 18.07	-0.8
			eS	08 37.40	
RED	1.54	238	ePc	08 18.07	-0.9
			eS	08 38.04	
VZW	1.75	95	eP	08 20.97	-1.0
VLZ	1.85	93	eP	08 22.66	-0.6
KLU	2.05	82	iPc	08 24.90	-1.3
TOA	2.07	64	ePc	08 26.98	0.4
RND	2.23	15	eP	08 29.23	0.4
TZL	2.38	69	eP	08 30.73	-0.2
SDG	2.52	58	eP	08 32.82	0.0
GLB	3.06	84	eP	08 39.61	-0.9

38 obs. associated

& APR 26, 1991 08h 20m 54.85s
38.058 N 112.738 W
DEPTH = 2.6km
UTAH (478)
<SLC-P>. ML 3.1 (SLC).

MSU	0.64	44	iP	21 07.30	-0.3
NPN	1.79	258	eP	21 26.00	-1.0
DUG	2.13	358	eP	21 30.40	-1.7
EPR	2.14	246	eP	21 31.00	-1.1
WRN	2.25	269	eP	21 32.30	-1.5
DAU	2.62	26	eP	21 39.00	-0.1
PV09	2.87	80	eP	21 40.50	-2.2
TNP	3.54	272	eP	21 50.10	-2.0
BONR	4.40	270	eP	22 02.30	-2.1
FRI	5.64	261	ePc	22 39.70	18.0
			eS	23 51.60	
ANMO	5.94	120	eP	22 26.00	0.0
ALO	5.94	120	eP	22 26.00	-0.1
GOL	5.98	72	eP	22 26.00	-0.7
CMB	6.04	272	eP	22 48.70	21.4
			e	24 03.40	

14 obs. associated

& APR 26, 1991 08h 45m 02.16s
61.300 N 150.183 W
DEPTH = 36.8km
SOUTHERN ALASKA (2)
<AEIC>.

PMS	0.31	100	ePc	45 10.13	-0.2
			eS	45 17.01	
SUA	0.32	302	ePd	45 10.57	0.1
			eS	45 17.18	
PWA	0.38	22	iPd	45 10.80	-0.4
PLRM	0.58	59	ePc	45 12.93	-1.0
			eS	45 22.07	
GHO	0.77	51	eP	45 15.80	-0.8
			eS	45 26.99	
SPU	0.91	263	iPc	45 17.56	-1.1
			eS	45 30.67	
SKT	0.94	317	ePd	45 18.53	-0.5
			eS	45 31.53	
NCG	0.96	277	ePc	45 18.69	-0.7
			eS	45 32.57	
CKL	1.05	265	iPc	45 19.80	-0.9

9 obs. associated

& APR 26, 1991 08h 49m 05.61s
61.285 N 150.148 W
DEPTH = 39.5km
SOUTHERN ALASKA (2)
<AEIC>.

PMS	0.29	98	iPc	49 13.78	0.0
			eS	49 20.78	
SUA	0.34	302	iPd	49 14.28	-0.1

PWA	0.39	19	iPd	49 14.46	-0.4
			eS	49 21.52	
PLRM	0.58	57	eP	49 16.56	-0.8
			eS	49 25.61	
GHO	0.76	50	ePc	49 19.32	-0.8
			eS	49 30.61	
SPU	0.93	264	iPc	49 21.24	-1.1
			eS	49 34.11	
SKT	0.96	317	ePd	49 22.10	-0.7
			eS	49 35.70	
NCG	0.98	278	iPc	49 22.40	-0.7
			iS	49 36.15	
CKL	1.06	266	iPc	49 23.38	-1.0
			eS	49 37.70	
BGL	1.08	270	ePc	49 23.79	-0.8

10 obs. associated

* APR 26, 1991 08h 55m 12.67 ± 1.38s
35.899 N ± 14.2km 79.736 E ± 13.5km
DEPTH = 118.1 ± 20.2 km
3.3mb (1 obs.)
KASHMIR-TIBET BORDER REGION (304)

GAR	8.11	295	eP	57 09.20	0.0
GKN	8.90	151	P	57 20.42	0.4
			0.4s	14.00nm	5.1mb X
KKN	9.36	148	P	57 25.98	-0.2
DMN	9.44	150	P	57 27.00	-0.3
GUN	9.52	145	P	57 31.32	2.8X
PKI	9.60	148	P	57 29.66	0.1
GBA	22.30	186	P	00 01.00	0.0
			0.2s	0.30nm	3.3mb
SSE	34.71	86	eP	01 53.00	0.0

S.D. = 0.3 on 7 of 8 obs.

? APR 26, 1991 09h 05m 32.52 ± 4.21s
38.826 N ± 38.1km 141.558 E ± 64.4km
DEPTH = 33.0km (normal)
3.9mb (1 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)

MAT	3.50	230	eP	06 26.00	0.0
			(S)	07 18.00	
GUN	47.12	274	P	14 04.00	0.2
KKN	47.64	274	P	14 07.60	-0.2
GKN	48.04	275	P	14 10.80	0.0
NB2	72.58	337	P	16 58.00	0.0
			0.4s	0.50nm	3.9mb

S.D. = 0.2 on 5 of 5 obs.

APR 26, 1991 09h 15m 51.19 ± 0.40s
20.733 N ± 5.4km 89.563 E ± 4.8km
DEPTH = 33.0km (normal)
4.7mb (5 obs.)
BAY OF BENGAL (319)

PKI	7.79	332	P	17 46.18	0.7
			0.3s	143.00nm	6.6mb X
GUN	7.89	336	P	17 47.24	0.3
DMN	7.96	330	P	17 48.40	0.6
KKN	8.04	332	P	17 48.88	0.1
			0.3s	75.00nm	6.3mb X
GKN	8.52	329	P	17 55.34	0.0
			0.3s	356.00nm	7.0mb X
CHG	9.04	101	ePg	18 02.30	-0.2
			eSg	19 34.00	
LSA	9.04	9	P	18 01.00	-1.9
			S	19 35.00	
BDT	9.58	110	ePg	18 08.90	-1.0
			eSg	18 57.00	
KHT	10.44	123	iPd	18 20.80	-0.9
HYB	10.92	254	eP	18 27.90	-0.4
NST	11.23	115	eP	18 32.00	-0.6
GBA	13.58	240	Pc	19 03.50	-0.4
			0.4s	31.70nm	5.5mb X
NDI	13.72	308	iPc	19 04.80	-1.0
			0.5s	49.30nm	5.6mb X
			eS	21 25.40	
POO	14.97	264	eP	19 23.00	0.8
			iS	22 22.70	
KOD	15.64	230	eP	19 29.50	-1.7
BOM	15.87	266	eP	19 37.50	3.8X
			eS	22 39.50	
CD2	16.29	49	P	19 35.00	-4.2X
GYA	16.67	67	P	19 45.00	0.9
IPM	19.55	144	ePd	20 21.00	1.8

LZH	19.76	36	eP	20 19.00	-2.5
			1.5s	40.00nm	4.5mb
Z	16s		0.24um		3.1msz
N	15s		0.80um		
			SP	20 29.50	
PSI	20.12	152	eP	20 39.00	13.7X
GTA	20.59	23	Pd	20 29.60	-0.6
			1.0s	10.00nm	4.1mb
			PP	20 45.00	
XAN	21.66	48	iPd	20 40.20	-0.7
			1.0s	50.00nm	4.9mb
			S	24 26.00	
QUE	22.45	299	ePKP	21 03.80	14.8X
			ePKS	24 50.00	
WMO	23.08	357	P	20 56.70	1.8
			SP	21 09.00	
WHN	24.34	61	ePd	21 08.70	1.5
			PP	21 15.50	
TIY	26.06	45	Pc	21 24.20	0.7
HHC	27.42	38	eP	21 36.40	0.5
CN2	37.64	44	eP	23 04.00	-0.8
MLR	57.13	311	eP	25 53.00	15.8X
KAF	59.43	331	eP	26 02.60	9.9X
SOD	60.70	337	iP	26 16.00	14.6X
ASPA	61.75	133	iPc	26 10.00	0.9
			0.5s	11.40nm	5.3mb X
UPP	63.24	327	iP	26 32.90	14.5X
PRU	64.85	316	eP	26 44.70	15.5X
KHC	65.53	316	eP	26 49.10	15.5X
NB2	66.46	329	P	26 46.10	6.8X
			0.7s	9.60nm	5.0mb
MOX	66.68	317	eP	26 56.00	15.1X
STK	72.24	135	iPc	27 16.50	1.3
			0.5s	3.80nm	4.6mb
EKA	74.73	324	P	27 45.00	15.6X
			0.7s	5.50nm	
INK	85.84	15	eP	28 44.00	15.6X
YKA	94.87	11	eP	29 11.70	0.8
			1.0s	0.40nm	3.8mb X

S.D. = 1.1 on 28 of 42 obs.

APR 26, 1991 09h 19m 28.33 ± 3.92s
40.815 N ± 18.9km 29.591 E ± 6.2km
DEPTH = 6.9 ± 46.2 km
TURKEY (366)
MD 2.5 (ISK).

HRT	0.06	83	iPg	19 30.20	0.0
			eSg	19 31.40	
GBZT	0.11	257	ePg	19 30.20	-0.7
			iSg	19 32.60	
YLV	0.30	214	iPg	19 34.80	0.4
			iSg	19 39.20	
IZI	0.49	191	ePg	19 38.30	0.2
EYL	0.50	120	iPg	19 38.10	-0.3
CTT	0.94	291	iPn	19 46.20	-0.3
DMK	1.71	307	ePn	19 59.40	0.7

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

? APR 26, 1991 09h 24m 04.65 ± 0.96s
47.248 N ± 14.1km 11.285 E ± 6.2km
DEPTH = 10.0km (geophysicist)
AUSTRIA (546)
ML 1.2 (VIE).

SQTA	0.06	242	iPg	24 07.00	0.0
			iSg	24 08.60	
MOTA	0.16	308	iPg	24 08.40	0.0
			iSg	24 11.30	
WATA	0.22	66	iPg	24 09.40	0.0
			iSg	24 13.40	
WTTA	0.24	86	iPg	24 09.90	0.0
			iSg	24 13.80	

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

PLRM	0.60	57	iPd	54 50.19	-0.9	PWA	0.38	22	iPc	32 59.79	-0.5	YKU	0.90	134	eP	38 54.43	-0.2
			eS	54 44.72		PLRM	0.58	59	iPc	32 53.01	-0.5				eS	39 07.27	
PMR	0.60	57	iPd	54 53.95	-0.4	GHO	0.77	51	ePc	32 55.12	-0.8	PNL	0.96	122	iP	38 54.61	-1.1
			eS	54 54.20					ePc	32 57.92	-0.7				eS	39 09.05	
NKA	0.74	225	iPd	54 48.59	1.0	SLKM	0.79	182	eP	32 57.67	-1.2	TGL	1.08	303	iP	38 56.55	-1.3
SLKM	0.76	182	iPd	54 47.13	-0.9				eS	33 09.30					eS	39 13.85	
GHO	0.78	49	iPd	54 47.46	-0.9	KNK	0.84	81	eP	32 59.03	-0.5	BALM	1.08	323	eP	38 56.90	-1.1
			eS	54 58.80		SKT	0.94	317	eP	33 00.80	-0.2				eS	39 14.13	
KNK	0.84	79	ePd	54 48.77	-0.3				eS	33 14.11		CROM	1.21	299	eP	38 58.78	-1.4
			eS	55 00.70		NCG	0.96	277	ePc	33 00.93	-0.4				eS	39 17.47	
SPU	0.91	265	iPd	54 49.23	-1.0				eS	33 14.42		HON	1.30	124	eP	38 59.84	-1.7
			eS	55 02.07		CKL	1.05	265	ePc	33 01.96	-0.6				eS	39 18.17	
CRP	0.96	271	ePc	54 50.40	-0.5				eS	33 16.03		HMT	1.64	277	eP	39 05.24	-1.6
			eS	55 03.48		BGL	1.07	269	ePc	33 02.27	-0.6				eS	39 27.82	
SKT	0.96	318	iPc	54 50.11	-0.7				11 obs. associated			RAGM	1.85	278	eP	39 08.62	-1.3
			eS	55 03.44								GLB	1.87	314	eP	39 08.93	-1.3
NCG	0.97	279	iPc	54 50.37	-0.6				% APR 26, 1991 10h 44m 13.01±0.81s						eS	39 33.80	
			eS	55 03.71					39.108 N ± 7.0km 27.618 E ± 12.1km			SGAM	2.12	280	eP	39 12.11	-1.7
SML	1.03	58	iPd	54 50.93	-0.9				DEPTH = 10.0km (geophysicist)			CVA	2.39	281	eP	39 16.56	-1.2
			eS	55 05.17					TURKEY (366)			KLU	2.75	301	eP	39 21.09	-1.8
CKL	1.05	267	iPc	54 51.40	-0.8				MD 2.6 (ISK).			HIN	2.75	277	eP	39 22.80	-0.1
BGL	1.07	271	iPc	54 51.73	-0.7							VLZ	2.80	292	eP	39 21.07	-2.4
			eS	55 06.09								TZL	2.85	313	eP	39 22.88	-1.4
CUT	1.14	358	eP	54 52.53	-0.8				Izm 0.76 202 iPg 44 27.90 0.0			VZW	2.88	290	eP	39 22.58	-2.1
SEW	1.22	163	eP	54 53.15	-1.3							GLI	3.10	286	eP	39 28.79	1.1
RDT	1.29	238	iPd	54 54.73	-0.9				DST 0.93 57 ePn 44 30.80 0.0			TOA	3.17	310	eP	39 27.56	-1.2
			eS	55 12.02					EDC 1.25 9 iPn 44 36.00 -0.3			SDG	3.21	319	eP	39 27.86	-1.5
NNL	1.35	205	ePc	54 56.69	0.4				BNT 1.27 10 ePn 44 36.60 0.0							22 obs. associated	
DFR	1.40	242	iPd	54 56.35	-0.8				KCT 1.27 26 ePn 44 36.70 0.0								
REF	1.46	239	iPd	54 57.36													

26d 13h

EYL 1.08 29 iPn 49 59.10 0.4
 HRT 1.21 7 iPn 50 00.60 -0.2
 BNT 1.40 302 ePn 50 05.00 1.2
 EDC 1.43 301 ePn 50 04.50 0.2
 S.D. = 0.9 on 7 of 7 obs.

APR 26, 1991 14h 13m 17.12 ± 0.80s
 45.229 N ± 5.6km 6.765 E ± 8.7km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.7 (LDG).

BNI 0.19 200 P 13 20.60 -0.8
 eSg 13 23.80
 LPG 0.27 358 Pg 13 21.20 -1.7
 Sg 13 25.00
 RRL 0.31 177 P 13 23.55 -0.1
 S 13 29.17
 RSP 0.36 102 P 13 26.04 1.5
 S 13 32.97
 LSD 0.36 50 P 13 24.64 0.1
 PZZ 0.76 162 P 13 31.92 -0.2
 S 13 43.97
 DOI 0.80 155 P 13 31.00 -1.8
 eSg 13 45.00
 STV 1.06 158 P 13 36.79 -0.4
 FRF 1.67 183 Pg 13 48.40 1.9
 Sg 14 11.80
 SMF 2.48 306 Pg 13 59.70 1.5
 Sg 14 28.70
 AVF 2.84 305 Pg 14 06.40 3.0X
 Sg 14 39.80
 S.D. = 1.5 on 10 of 11 obs.

APR 26, 1991 14h 16m 35.12 ± 0.28s
 45.298 N ± 2.7km 6.600 E ± 3.3km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 3.1 (LDG), 2.8 (GEN).

LPG 0.23 28 Pg 16 40.20 0.0
 Sg 16 44.00
 LPL 0.24 23 Pg 16 40.40 0.1
 BNI 0.25 168 Pc 16 39.80 -0.7
 eSg 16 43.30
 RRL 0.40 161 P 16 42.62 -0.8
 S 16 48.15
 LSD 0.42 68 P 16 43.74 -0.1
 S 16 49.90
 RSP 0.49 107 P 16 45.28 0.2
 S 16 52.05
 PZZ 0.87 156 P 16 51.27 -0.7
 S 17 03.50
 DOI 0.92 150 Pd 16 52.00 -0.7
 eSg 17 03.80
 STV 1.17 154 P 16 56.97 -0.1
 S 17 12.38
 ENR 1.22 151 P 16 57.61 -0.3
 S 17 13.76
 ROB 1.35 138 P 17 00.35 0.3
 SBF 1.55 157 Pg 17 04.20 1.3
 Sg 17 25.30
 PCP 1.58 118 P 17 03.73 0.5
 FIN 1.58 133 P 17 02.57 -0.7
 CDR 1.73 200 eP 17 05.90 0.5
 e 17 27.90
 FRF 1.74 179 Pg 17 07.40 1.9
 Sg 17 30.00
 LRG 1.85 185 Pg 17 10.60 3.5X
 Sg 17 34.90
 LMR 1.96 182 Pg 17 11.60 2.8X
 Sg 17 36.40
 SMF 2.35 306 Pn 17 14.20 -0.2
 Pg 17 19.30
 Sg 17 49.20
 LBF 2.48 314 Pn 17 16.60 0.3
 Pg 17 22.70
 Sg 17 54.00
 BSF 2.54 3 Pg 17 23.80 6.7X
 Sg 17 57.00
 AVF 2.71 305 Pn 17 19.00 -0.5
 Pg 17 26.90
 Sg 18 00.30
 HAU 2.71 356 Pn 17 19.50 -0.1
 Pg 17 26.60
 Sg 18 02.30
 LOR 2.74 317 Pn 17 20.00 0.1

Pg 17 26.30
 Sg 17 59.80
 SSF 2.78 310 Pn 17 20.90 0.4
 Pg 17 27.70
 Sg 18 01.90
 BGF 2.91 297 Pg 17 29.60 7.3X
 Sg 18 08.20
 MAF 2.97 290 Pn 17 22.90 -0.3
 Pg 17 31.00
 Sg 18 09.50
 TCF 3.23 289 Pn 17 26.30 -0.5
 Pg 17 35.70
 Sg 18 16.10
 S.D. = 0.7 on 24 of 28 obs.

& APR 26, 1991 14h 19m 03.12s
 61.270 N 150.176 W
 DEPTH = 47.0km
 SOUTHERN ALASKA (2)
 <AEIC> ML 2.5 (AEIC).

PMS 0.30 95 ePd 19 11.76 -0.3
 eS 19 18.76
 SUA 0.34 306 iPc 19 12.18 -0.3
 eS 19 19.89
 PWA 0.41 20 iPc 19 12.50 -0.6
 eS 19 19.84
 PLRM 0.60 57 iPc 19 14.59 -0.9
 eS 19 24.38
 NKA 0.74 225 ePc 19 18.37 1.0
 SLKM 0.77 182 ePd 19 16.86 -0.9
 eS 19 28.09
 GH0 0.78 49 iPc 19 17.35 -0.7
 eS 19 28.25
 SPU 0.91 265 iPc 19 18.99 -0.8
 CRP 0.96 271 iPc 19 20.15 -0.4
 SKT 0.96 318 iPd 19 20.02 -0.5
 eS 19 33.55
 NCG 0.96 279 iPc 19 20.18 -0.4
 SML 1.03 58 ePc 19 20.75 -0.8
 CKL 1.05 267 iPc 19 21.15 -0.6
 eS 19 35.16
 BGL 1.07 271 iPc 19 21.48 -0.6
 CUT 1.14 358 ePd 19 22.39 -0.5
 eS 19 37.27
 SEW 1.22 163 eP 19 23.31 -0.8
 RDT 1.29 238 iPc 19 24.46 -0.7
 eS 19 41.89
 >NNL 1.35 205 eP 19 26.36 0.5
 DFR 1.40 242 iPc 19 26.09 -0.6
 eS 19 44.38
 REF 1.46 239 iPc 19 27.14 -0.5
 RDN 1.47 240 iPc 19 26.98 -0.8
 S 19 45.94
 SCM 1.48 66 eP 19 27.28 -0.5
 RSO 1.50 238 ePc 19 27.59 -0.6
 RS2 1.50 238 ePc 19 27.65 -0.6
 RDW 1.51 240 iPc 19 27.76 -0.6
 KNIM 1.51 127 ePd 19 26.21 -2.0
 NCT 1.52 243 iPc 19 27.89 -0.5
 RED 1.53 237 iPc 19 27.95 -0.6
 eS 19 47.38
 GLI 1.55 103 ePc 19 27.33 -1.4
 BRLK 1.55 193 eP 19 28.17 -0.6
 eS 19 47.89
 LTI 1.68 136 eP 19 28.18 -2.4
 CNPM 1.83 197 eP 19 32.32 -0.3
 VLV 1.87 93 ePc 19 32.09 -1.0
 KLU 2.06 82 iPc 19 34.74 -1.3
 TOA 2.08 65 eP 19 36.18 -0.1
 PDB 2.48 235 eP 19 40.86 -1.0
 36 obs. associated

* APR 26, 1991 14h 38m 01.88 ± 1.36s
 15.764 S ± 11.1km 173.967 W ± 9.1km
 DEPTH = 172.1 ± 13.6 km
 4.8mb (8 obs.)

TONGA ISLANDS (173)
 Mo=5.0*10**17 Nm (PPT).

VUN 7.58 252 eP 39 51.10 0.4
 SVA 7.62 251 ePd 39 52.10 1.0
 SGE 7.98 256 eP 39 57.20 1.1
 NDF 8.46 255 eP 40 01.80 -0.4
 eS 40 32.40
 RAR 14.51 114 P 41 19.00 -1.4
 S 43 51.00

DZM 19.55 248 iPc 42 16.70 -2.0
 HBZ 22.80 196 eP 42 52.10 1.6
 NOZ 23.83 196 eP 43 01.00 0.6
 TOO 41.81 231 eP 45 35.00 -1.2
 STK 43.39 240 iPd 45 47.10 -1.9
 1.3s 2.80nm 3.7mb X

i 45 53.30
 i 46 28.20
 e 46 43.20
 ASPA 49.48 252 iPc 46 34.70 -2.2
 0.8s 17.60nm 4.7mb

e 47 12.50
 WARB 56.01 249 eP 47 33.00 7.9X
 SBA 62.85 185 (P) 48 12.00 1.0
 ISA 73.29 44 eP 49 23.00 6.7X
 CLC 73.97 45 eP 49 23.00 2.7X
 TPC 74.12 47 eP 49 24.00 2.9X

GSC 74.23 46 eP 49 22.00 0.2
 LBFM 74.46 38 P 49 20.00 -3.2X
 BONR 74.70 43 P 49 24.00 -0.7
 TNP 75.48 43 P 49 29.00 0.0
 1.0s 7.50nm 4.4mb

MSU 79.07 45 P 49 49.00 0.2
 PMR 79.58 12 eP 49 51.20 0.5
 1.4s 45.20nm 5.0mb
 ANM 80.35 4 e(P) 49 54.20 -0.5
 ALO 81.45 50 eP 50 02.00 0.6
 1.5s 28.47nm 4.8mb

e 50 53.00
 ANMO 81.45 50 P 50 01.00 -0.4
 1.4s 95.93nm 5.3mb
 LRM 82.64 38 eP 50 07.20 -0.2
 FBA 82.85 11 eP 50 07.70 -0.1
 0.8s 21.55nm 5.0mb

BW06 82.91 42 P 50 08.00 -0.8
 IMA 83.00 8 eP 50 09.70 1.1
 1.2s 13.26nm 4.6mb
 GOL 84.30 46 P 50 16.00 0.1
 SES 85.81 35 eP 50 23.00 0.1

INK 88.75 14 eP 50 42.00 5.4X
 YKA 90.65 24 eP 50 44.00 -1.5
 1.1s 3.50nm 4.3mb
 KRA 143.98 345 ePKP 57 22.90 4.7X
 SPC 144.70 344 ePKP 57 25.20 5.5X

e 58 19.10
 MOX 144.92 354 ePKP 57 26.00 6.2X
 UCC 145.03 2 PKP 57 22.00 2.0
 PRU 145.17 350 ePKP 57 20.60 0.3
 2.5s 91.50nm

e 57 24.50
 e 58 00.00
 DOU 145.74 2 PKP 57 29.00 7.8X
 e 58 01.60
 e 26 29.30

GRF 145.90 354 ePKP 57 23.20 1.7
 e 57 28.40
 ABH 145.95 358 ePKP 57 28.62 7.0X
 PSZ 145.95 343 ePKP 57 28.80 7.0X

MLR 145.97 335 ePKP 57 24.00 2.1
 KHC 146.16 351 ePKP 57 20.90 -1.1
 e 58 05.20
 ZST 146.40 347 ePKP 57 29.30 7.0X
 e 58 06.00

e 01 44.70
 BBTk 146.55 321 ePKP 57 31.00 8.0X
 CDF 147.43 358 ePKP 57 29.20 5.1X
 0.8s 8.05nm

HAU 147.85 360 ePKP 57 29.10 4.4X
 OHR 151.69 336 e(PKP) 57 43.80 13.0X
 e 58 14.50
 S.D. = 1.2 on 32 of 49 obs.

% APR 26, 1991 14h 53m 21.30 ± 3.15s
 45.285 N ± 6.7km 6.490 E ± 25.1km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 1.8 (GEN).

LPG 0.28 41 Pg 53 27.20 -0.1
 Sg 53 30.90
 LPL 0.29 36 Pg 53 27.40 0.0
 Sg 53 31.10
 RRL 0.42 150 P 53 29.83 -0.1
 S 53 34.65
 LSD 0.50 70 P 53 31.27 -0.2
 S 53 36.70

RSP 0.56 104 P 53 32.81 0.1
S 53 38.75
S.D. = 0.2 on 5 of 5 obs.

* APR 26, 1991 15h 05m 15.46 ± 0.63s
9.128 N ± 10.6km 126.391 E ± 14.6km
DEPTH = 60.0km (geophysicist)
4.2mb (3 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

SSE 22.39 348 eP 10 10.50 0.6
1.0s 12.00nm 4.3mb
ASPA 33.41 167 eP 11 49.80 -0.8
WARB 35.10 180 eP 12 06.00 0.9
GUN 42.46 302 P 13 06.60 -0.2
PKI 42.75 301 P 13 08.40 -0.8
KKN 42.92 301 P 13 10.80 0.4
GKN 43.53 301 P 13 14.60 -0.7
GBA 48.14 280 Pc 13 52.50 0.7
0.5s 3.20nm 4.6mb
INK 85.30 22 eP 17 47.00 0.3
YKA 94.75 24 eP 18 30.90 -0.5
0.6s 0.20nm 3.7mb
FRB 106.45 7 PKP 23 27.50 -7.1X
0.6s 6.30nm
S.D. = 0.7 on 10 of 11 obs.

* APR 26, 1991 15h 24m 58.39 ± 1.25s
51.607 N ± 17.3km 9.154 E ± 9.2km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
ML 2.7 (BNS).

BNS 1.40 243 eP 25 24.30 0.4
0.2s 91.00nm
e 25 30.00
iS 25 43.70
TNS 1.46 198 ePnc 25 23.60 -1.2
eSn 25 47.20
WTS 1.51 286 ePn 25 24.50 -0.9
0.5s 9.00nm
eSn 25 50.00
KLL 2.03 243 eP 25 34.90 1.8
e 25 35.60
eS 26 03.10
ENN 2.20 249 ePn 25 35.00 -0.5
0.9s 8.00nm
eSn 26 07.50
MEM 2.22 245 iP 25 38.70 2.9X
CLL 2.43 96 (Pn) 25 39.00 0.3
eSg 26 10.00
S.D. = 1.4 on 6 of 7 obs.

& APR 26, 1991 15h 42m 34.68s
20.835 N 155.374 W
DEPTH = 1.0km
3.3mb (1 obs.)
HAWAII (613)
<HVO-P>. ML 3.9 (HVO).

KOH 0.80 208 ePd 42 48.86 -1.8
eS 42 59.95
KKU 0.94 178 iPc 42 51.32 -2.1
eS 43 03.97
WKH 1.01 196 iPc 42 52.13 -2.6
eS 43 04.92
HPU 1.05 184 ePc 42 52.68 -3.0
NGH 1.17 164 ePc 42 54.74 -2.7
HUM 1.22 201 iPc 42 55.33 -3.1
HMH 1.23 185 ePc 42 55.38 -3.2
eS 43 09.90
PLL 1.30 184 iPc 42 56.34 -3.5
WOB 1.30 189 ePc 42 56.67 -3.3
MLH 1.33 181 iPc 42 56.78 -3.5
iS 43 12.05
MWH 1.36 189 iPc 42 57.10 -3.6
MLX 1.37 179 iPc 42 57.24 -3.7
KIH 1.37 196 iPc 42 57.49 -3.5
iS 43 13.17
HBH 1.37 161 ePc 42 57.09 -3.7
KFH 1.41 182 iPc 42 57.94 -3.6
NPH 1.42 177 ePc 42 57.52 -4.1
KPO 1.42 159 ePc 42 57.89 -3.7
ESR 1.42 175 ePc 42 57.75 -4.0
TRH 1.42 187 iPc 42 58.08 -3.8
RIM 1.43 176 ePc 42 57.85 -4.0
CPK 1.43 178 ePc 42 57.89 -4.0

PKL 1.43 163 ePc 42 57.99 -3.9
OUT 1.44 177 ePc 42 57.93 -4.1
AIN 1.45 183 iPc 42 58.52 -3.8
HUL 1.46 165 ePd 42 58.42 -3.8
AHA 1.46 176 ePc 42 58.24 -4.0
PUH 1.46 174 iPc 42 58.24 -4.0
MKA 1.47 172 ePd 42 58.45 -4.0
DES 1.49 181 iPc 42 58.67 -4.1
KNH 1.49 177 ePd 42 58.61 -4.2
DAH 1.50 191 ePd 42 58.63 -4.5
HLP 1.53 178 ePc 42 59.29 -4.0
PWH 1.55 175 eP 42 59.60 -3.9
WOH 1.58 184 iPc 42 59.93 -4.1
HTC 1.59 181 ePc 42 59.83 -4.2
KHU 1.60 188 ePc 42 59.96 -4.4
PPL 1.67 183 ePd 43 01.15 -4.0
SPT 1.86 189 ePc 43 03.57 -4.5
YKA 50.05 23 eP 51 33.00 0.2
0.7s 0.30nm 3.3mb
39 obs. associated

APR 26, 1991 16h 02m 40.29 ± 0.44s
9.350 S ± 9.7km 119.742 E ± 8.8km
DEPTH = 33.0km (normal)
5.0mb (9 obs.)

SUMBA ISLAND REGION (287)

TRT 7.22 283 iPc 04 26.10 -0.1
iS 05 46.50
KNA 10.86 127 eP 05 15.00 -1.6
0.3s 23.00nm 5.9mb X
eS 07 07.00
MTN 11.70 108 eP 05 27.50 -0.6
eS 07 23.00
MBL 11.74 180 eP 05 25.70 -2.9X
0.3s 44.00nm 6.2mb X
eS 07 22.00
MNI 11.86 26 eP 05 40.00 9.8X
NANU 13.74 197 eP 06 03.00 7.8X
eS 08 14.00
MEKA 17.21 184 eP 06 40.00 0.1
eS 09 32.00
WARB 17.98 160 eP 06 49.20 -0.2
0.3s 12.00nm 4.5mb
eS 09 55.50
ASPA 19.64 138 eP 07 10.10 0.7
1.3s 58.70nm 4.7mb
eS 10 36.50
DIS 22.16 122 eP 07 37.00 1.8
iS 11 34.00
MUN 22.75 188 eP 07 52.00 11.1X
eS 11 40.50
RKG 24.73 185 eP 08 20.00 19.9X
eS 12 41.00
STK 30.22 141 iPc 08 50.40 0.2
0.4s 3.00nm 4.4mb
e 09 05.30
GBA 47.78 298 Pd 11 15.90 -0.9
0.5s 4.70nm 4.8mb
GUN 49.45 320 P 11 30.30 0.4
0.7s 51.00nm 5.7mb
PKI 49.52 319 P 11 30.62 0.2
0.6s 29.00nm 5.5mb
DMN 49.75 319 P 11 32.34 0.3
0.6s 15.00nm 5.2mb
KKN 49.76 319 P 11 31.88 -0.2
0.6s 10.00nm 5.0mb
GKN 50.32 319 P 11 36.24 -0.1
0.5s 22.00nm 5.4mb
YAK 71.57 5 eP 13 58.60 -1.2X
YKA 114.21 24 ePKP 21 17.60 -0.1X
0.5s 0.20nm
S.D. = 0.8 on 14 of 21 obs.

APR 26, 1991 16h 24m 59.09 ± 0.50s
39.255 N ± 4.6km 23.084 E ± 4.8km
DEPTH = 11.8 ± 3.0 km
3.4mb (1 obs.)

AECEAN SEA (365)
ML 3.3 (ATH).

AGG 0.63 249 iPc 25 09.66 -1.9
eS 25 19.08
PAIG 0.81 34 iPc 25 15.82 1.1
eS 25 28.16
LIT 0.96 332 iPc 25 16.94 -0.3
eS 25 32.24

OUR 1.28 32 iPd 25 23.05 0.4
eS 25 40.60
ATH 1.37 159 ePn 25 25.70 1.7
THE 1.38 356 ePc 25 24.24 0.2
eS 25 42.52
KZN 1.46 316 ePn 25 25.50 0.2
SOH 1.58 7 iPc 25 27.53 0.5
iS 25 49.14
GRG 1.78 343 ePc 25 30.26 0.4
iS 25 53.53
SRS 1.90 12 ePd 25 31.78 0.2
eS 25 55.66
FNA 2.01 320 ePd 25 33.48 0.2
VAY 2.10 349 ePn 25 35.00 0.5
LSK 2.11 296 ePn 26 38.00 63.2X
IGT 2.15 278 eP 25 34.20 -1.1
VLS 2.23 242 ePn 25 37.90 1.5
MMB 2.38 12 iPc 25 33.00 -5.6X
PRK 2.48 89 eP 25 41.20 1.4
VLI 2.54 183 ePn 25 40.20 -0.5
OHR 2.55 317 ePn 25 43.50 2.5
iSn 26 22.30
Lg 26 30.90

EZN 2.57 76 iPn 25 35.00 -6.2X
KKB 2.61 360 iP 25 42.00 0.2
RDO 2.66 44 ePn 25 41.60 -1.0
RZN 2.73 27 iPc 25 44.00 0.3
iS 26 16.00
ALN 2.80 53 ePc 25 43.52 -1.0
SKO 2.99 336 e(Pn) 25 50.00 2.9X
TIR 3.23 311 ePn 26 01.00 10.4X
VTS 3.33 2 eP 25 53.00 0.8
iS 26 33.00
PGB 3.39 14 iP 25 53.00 0.1
LACI 3.51 314 ePn 26 04.50 10.1X
SDA 3.88 316 ePn 26 08.20 8.4X
PVL 4.31 22 eP 26 04.00 -1.8
DMK 4.39 53 ePn 26 06.00 -1.0
CMP 6.18 13 ePc 26 33.00 0.6
MLR 6.58 18 eP 26 44.00 5.9X
NB2 23.02 345 P 30 04.90 0.2
0.7s 0.80nm 3.4mb
S.D. = 1.1 on 27 of 35 obs.

APR 26, 1991 16h 28m 11.13 ± 0.35s
40.653 N ± 3.6km 29.096 E ± 2.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.0 (ISK).

YLV 0.23 112 iPg 28 16.40 0.3
eSg 28 20.00
GBZT 0.30 63 ePg 28 17.80 0.5
iSg 28 22.20
ISK 0.41 356 iPg 28 20.00 0.4
iSg 28 26.00
IZI 0.43 138 iPg 28 19.90 0.0
HRT 0.47 69 iPg 28 20.50 -0.1
KCT 0.69 235 ePg 28 24.50 -0.4
CTT 0.71 315 iPg 28 24.90 -0.2
EYL 0.81 96 iPg 28 26.20 -0.8
BNT 0.94 252 iPg 28 29.20 0.1
iSg 28 43.00
EDC 0.99 252 iPg 28 30.00 0.1
iSg 28 44.00
GPA 0.99 111 ePg 28 29.40 -0.6
DST 1.11 199 ePn 28 32.00 0.1
DMK 1.54 320 iPn 28 38.40 -0.3
ALT 1.78 154 ePn 28 43.00 0.8
S.D. = 0.5 on 14 of 14 obs.

APR 26, 1991 17h 07m 17.01 ± 0.51s
28.091 N ± 10.0km 55.311 E ± 5.7km
DEPTH = 33.0km (normal)
4.4mb (11 obs.)

SOUTHERN IRAN (353)

DHR 4.94 250 iPd 08 32.70 1.9
RYD 8.49 249 iPd 09 22.00 1.3
MAIO 8.92 22 eP 09 28.00 1.4
QUE 10.39 76 eP 09 47.30 0.3
e(S) 12 58.50
KMSA 12.50 234 iPd 10 11.07 -4.4X
DHJN 15.04 229 ePd 10 46.67 -2.4
ABHA 15.13 232 ePd 10 52.13 1.8
HRI 17.60 292 eP 11 21.00 -0.5
DSI 17.64 286 eP 11 22.50 0.7

26d 17h

RMN	18.20	283	eP	11	30.00	1.1
BBTK	22.01	308	eP	12	11.00	0.8
GBA	25.14	120	P	12	47.00	6.3X
	0.9s		4.80nm			4.1mb
GKN	25.86	83	P	12	48.70	1.1
DMN	26.32	84	P	12	54.08	2.1
KKN	26.45	84	P	12	53.40	0.3
PKI	26.59	84	P	12	54.62	0.1
	0.6s		12.00nm			4.7mb
GUN	26.96	83	P	12	55.44	-2.5
	0.6s		14.00nm			4.8mb
MLR	29.01	315	eP	13	17.00	1.0
			e	34	25.00	
WMO	30.32	50	eP	13	27.50	-0.2
KHC	38.16	315	P	14	34.40	-0.6
GTA	38.34	61	P	14	37.60	0.9
	0.8s		10.00nm			4.7mb
NUR	38.45	336	eP	14	35.20	-2.0
KAF	39.04	339	eP	14	43.50	1.4
CLL	39.22	318	e(P)	14	45.00	1.3
UPP	40.78	332	iP	14	54.80	-1.6
CHTO	40.90	93	eP	15	02.00	4.1X
	1.0s		2.75nm			3.9mb
LPG	41.91	308	eP	15	08.30	2.0
	0.5s		2.55nm			4.2mb
HAU	42.56	311	eP	15	11.70	0.5
SDD	42.96	344	eP	15	16.00	1.8
SMF	44.06	309	eP	15	20.90	-2.5
	0.5s		2.55nm			4.3mb
NB2	44.11	331	P	15	21.90	-1.8
	0.6s		5.80nm			4.6mb
AVF	44.40	309	eP	15	25.00	-1.2
TCF	45.14	309	eP	15	31.10	-1.1
	0.7s		3.30nm			4.3mb
XAN	45.87	69	P	15	37.00	-1.1
TIY	48.27	63	eP	15	57.00	0.0
LKO	59.94	265	P	17	21.06	-1.6
	0.6s		8.00nm			5.0mb
KIC	60.66	261	P	17	26.00	-1.6
FRB	78.43	338	eP	19	15.00	-0.6
YKA	89.37	355	eP	20	10.70	-0.6
	0.7s		0.90nm			4.2mb

S.D. = 1.5 on 36 of 39 obs.

& APR 26, 1991 17h 10m 45.16s
61.265 N 150.115 W
DEPTH = 30.2km
SOUTHERN ALASKA (2)
<AEIC>

SUA	0.36	304	iPd	10	53.75	0.1
SLKM	0.76	184	eP	10	58.09	-1.6
			eS	11	09.95	
GHO	0.76	48	eP	10	58.60	-1.2
			eS	11	09.81	
KNK	0.81	79	eP	10	59.67	-0.8
SKT	0.99	317	ePn	11	01.95	-1.0
			eS	11	15.78	
SML	1.01	57	eP	11	02.18	-1.2
CKL	1.08	267	eP	11	03.11	-1.2
			S	11	17.20	

7 obs. associated

APR 26, 1991 17h 36m 54.57±0.15s
7.525 N ± 3.3km 126.577 E ± 4.1km
DEPTH = 74.0km (12 depth phases)
5.5mb (49 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)
Mo=1.6*10**17 Nm (PPT).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 19S, 41C
Centroid Location:
Origin Time 17:36:59.4 0.4
Lat 7.40N 0.05 Lon 126.71E 0.07
Dep 68.9 7.4 Half-duration 2.4
Moment Tensor: Scale 10**17 Nm
Mrr=-0.62 0.12 Mtt=-0.30 0.16
Mff=0.92 0.23 Mrt=0.62 0.14
Mrf=-2.32 0.13 Mtf=0.64 0.14
Principal Axes:
T Val= 2.60 Plg=35 Azm= 94
N 0.02 19 350
P -2.62 49 238
Best Double Couple: Mo=2.6*10**17
NP1: Strike=238 Dip=20 Slip=-21
NP2: 348 83 -109

DAV	1.08	246	iP-	37	18.00	3.4X
MNI	6.28	196	ePd	38	27.80	1.1
			eS	39	37.00	
OCP	8.89	323	eP	38	54.00	-8.6X
TSM	9.07	249	ePc	39	10.50	5.4X
KKM	10.39	262	ePc	39	27.30	4.1X
	1.2s		306.50nm			6.2mb
BAG	10.60	327	eP	39	30.00	3.9X
AAI	11.25	172	eP	39	35.00	0.3
BKB2	13.02	228	ePc	40	03.00	5.0X
OZH	18.93	337	eP	41	17.50	5.1X
	Z 24s		2.70um			
			S	44	36.00	
HKC	18.94	322	eP	41	15.50	2.9X
			eS	44	40.00	
PJC	18.96	70	eP	41	14.60	1.8
GUA	18.98	70	eP	41	14.60	1.5
	0.8s		191.04nm			5.4mb
OIZ	19.88	307	iPd	41	23.50	0.9
	1.5s		1100.00nm			6.0mb
	E 12s		1.80um			
			PP	41	43.50	
			S	45	02.00	
			SS	45	30.00	
GZH	20.03	322	P	41	24.00	-0.1
	Z 30s		2.50um			4.4MszX
			S	45	04.00	
TRT	20.54	223	ePc	41	22.10	-7.4X
	0.9s		426.50nm			5.8mb
MTN	20.74	167	iPd	41	31.00	-0.4
KNA	23.23	175	eP	41	56.00	0.0
KGM	23.81	258	ePd	42	03.90	2.2
	1.2s		1404.30nm			6.3mb
SSE	23.99	349	eP	42	04.00	0.7
	7.0s		400.00nm			5.0mb X
	Z 20s		1.40um			4.4Msz
	N 11s		0.60um			
	E 12s		1.00um			
			PP	42	18.00	
			SP	42	25.00	
			S	46	12.00	
			SS	46	38.00	
			ScP	49	16.50	
LAT	24.77	124	eP	42	11.92	1.0
KLM	25.20	261	ePc	42	15.60	0.5
NJ2	25.44	345	Pc	42	19.80	2.7X
	Z 18s		0.50um			4.1Msz
			S	46	44.00	
			SS	47	14.00	
			ScP	49	20.00	
			iScS	53	10.00	
IPM	25.57	265	ePd	42	19.30	0.7
	1.1s		150.30nm			5.4mb
			e	42	31.90	51kmX
WHN	25.61	335	eP	42	20.50	1.8
	Z 20s		1.10um			4.4Msz
	E 10s		0.80um			
			PcP	45	49.50	
SNG	25.75	271	eP	42	21.80	1.7
	1.0s		100.00nm			5.3mb
			e	46	38.00	
			e	49	20.50	
LOE	26.14	294	iPd	42	24.50	0.7
PMG	26.52	129	iPc	42	25.00	-2.2
	1.1s		126.58nm			5.4mb
GYA	26.70	317	iPd	42	31.00	2.0
	Z 20s		1.30um			4.5Msz
	N 14s		1.50um			
	E 14s		1.40um			
			SP	42	55.00	
			PcP	45	52.00	
			S	47	00.00	
			ScP	49	23.60	
			ScS	53	14.00	
NST	27.11	290	eP	42	34.20	1.6
PSI	27.95	262	ePc	42	42.80	2.6
KHT	28.36	287	eP	42	45.70	1.7
BDT	28.57	292	eP	42	46.80	1.0
	1.0s		9.20nm			4.4mb X
KMI	28.71	310	Pd	42	48.50	1.2
	1.2s		140.00nm			5.5mb
	Z 18s		1.60um			4.7Msz
			PP	43	03.50	
			S	47	32.00	
			ScP	49	29.40	
CHG	29.10	295	ePd	42	51.00	0.4
	1.3s		100.96nm			5.3mb

			e	49	31.00	
MBL	29.26	193	eP	42	50.50	-1.5
TIA	29.83	345	eP	42	56.50	-0.4
	Z 20s		0.60um			4.2Msz
	E 11s		0.50um			
			SP	43	29.30	
			S	47	43.50	
			ScP	49	32.30	
OIS	30.71	156	iPc	43	03.20	-1.5
	0.5s		96.00nm			5.8mb
MAT	30.77	19	iPd	43	03.80	-1.4
	0.7s		19.18nm			4.9mb
			eS	47	57.00	
XAN	31.01	331	eP	43	05.80	-1.6
	0.9s		100.00nm			5.5mb
	N 12s		0.10um			
	E 11s		0.10um			
			S	48	05.00	
DL2	31.56	353	eP	43	12.00	0.0
	Z 18s		0.70um			4.4Msz
	E 13s		0.80um			
			eS	48	13.00	
			SS	48	44.00	
CD2	31.57	320	P	43	11.50	-0.8
	1.0s		100.00nm			5.6mb
	Z 24s		1.20um			4.5MszX
	E 14s		2.70um			
			S	48	13.00	
NANU	31.80	200	iPc	43	23.70	9.4X
ASPA	31.82	167	iPc	43	12.80	-1.7
	0.3s		49.70nm			5.8mb
			iPcP	46	03.90	
			eS	48	13.00	
			iPcS	49	46.30	
TIY	32.68	339	Pc	43	21.20	-0.7
	Z 20s		1.20um			4.6Msz
	N 10s		0.44um			
			S	48	31.00	
WARB	33.51	180	iPd	43	29.00	-0.1
CTA	33.58	145	iPc	43	29.70	-0.2
	0.8s		29.85nm			5.2mb
			iS	48	45.00	
			iScP	49	45.00	
BJI	33.69	346	eP	43	30.00	-0.6
	1.0s		26.00nm			5.1mb
			ePcP	46	09.00	
			eS	48	45.00	
			eScP	49	46.00	
			eScS	53	49.00	
SNY	34.26	356	Pd	43	34.50	-1.0
	1.2s		60.00nm			5.4mb
	Z 22s		1.60um			4.7Msz
	E 13s		0.70um			
			iS	48	56.00	
			SS	49	26.00	
MEKA	34.82	193	eP	43	39.00	-1.4
LZH	35.21	327	eP	43	42.00	-1.9
	1.2s		130.00nm			5.7mb
	Z 15s		1.68um			4.9MszX
	E 12s		0.67um			
			PP	43	58.50	
			SP	44	09.50	
			PP	45	00.00	
			PcP	46	14.50	
			S	49	05.00	
			ScP	49	50.00	
			ScS	53	54.00	
HHC	35.78	340	eP	43	48.80	0.2
	Z 28s		1.20um			4.5MszX
	E 10s		0.50um			
			S	49	20.00	
BTO	36.10	338	eP	43	52.00	0.8
	N 13s		0.30um			
	E 14s		0.40um			
			PP	44	13.00	
			iS	49	24.00	
CN2	36.15	359	eP	43	52.00	0.6
			ePP	44	08.00	
			PcP	46	16.50	
			eS	49	20.00	
			eSS	49	51.00	

E	10s	0.28um		LTZ	65.05	144	P	47	28.60	-0.7		1.4s	73.00nm	5.9mb							
		PP	44	17.50	SNZO	65.61	142	eP	47	35.00	2.2	SPC	94.86	321	eP	50	10.00	0.1			
		SP	44	27.80				eS	56	16.00				e	50	30.20	73km				
		iS	49	39.50	SDN	74.15	35	e(P)	48	25.30	0.6	KKB	94.95	313	iPd	50	10.00	-0.2			
		SS	50	11.00	CSY	74.55	187	iPc	48	29.00	2.3	PAIG	94.99	311	iP	50	09.10	-1.3			
FORR	38.18	178	iPd	44	07.80	-0.8		0.8s	64.70nm	5.6mb	SOH	95.01	312	iP	50	09.10	-1.4				
COOL	38.54	188	eP	44	11.00	-0.7		74.57	295	ePd	48	27.20	-0.5	NB2	95.34	334	P	50	10.00	-1.7	
	0.3s	15.00nm						SVW	77.56	29	eP	48	45.70	1.8		0.8s	11.70nm	5.4mb			
BAL	39.08	194	eP	44	15.50	-0.7				e	49	06.20	76km	VAY	95.46	313	iP	50	11.30	-1.2	
GTA	39.82	327	Pd	44	22.70	0.3		TTA	77.61	27	P	48	45.00	0.8		1.3s	56.00nm	5.9mb			
	0.8s	50.00nm							0.8s	29.66nm	5.3mb			i	50	31.60	73km				
Z	26s	1.70um						TAB	77.74	307	eP	48	46.00	0.5	GRG	95.68	312	iP	50	12.20	-1.4
E	18s	2.20um						RYD	77.81	294	ePd	48	46.10	0.1	LIT	95.83	312	iP	50	12.70	-1.6
		PP	44	41.80	PDB	78.12	31	P	48	47.40	0.5	SKO	96.11	314	iP	50	14.80	-0.7			
		SP	44	51.80						pP	49	07.00	72km		1.3s	51.00nm	5.9mb				
		PcP	46	28.80	BRW	78.65	19	eP	48	50.80	1.2			i	50	16.00	4kmX				
		S	50	21.00	IMA	79.00	24	eP	48	52.80	1.0			i	50	35.50					
		SS	50	53.50				0.9s	11.67nm	4.8mb	YKA	96.12	24	eP	50	14.70	-0.4				
		ScS	54	21.00	KMSA	80.03	289	iPd	48	58.53	0.4		0.8s	5.00nm	5.1mb						
LSA	39.91	308	P	44	25.50	1.8		PMR	80.71	29	eP	49	00.50	-0.3	AGG	96.23	311	iP	50	13.90	-2.2
MUN	40.51	194	eP	44	27.40	-0.5			1.4s	74.20nm	5.4mb	FNA	96.47	312	iP	50	15.20	-2.0			
STK	41.73	161	iPc	44	37.40	-0.5				i	49	20.80	75km	SRO	96.51	320	eP	50	16.90	-0.2	
	0.6s	41.70nm						DHJN	81.20	287	iPd	49	06.43	1.8		e	50	36.50	70km		
		i	44	52.90	61kmX			FBA	81.38	25	P	49	03.80	-0.5	KSP	96.74	323	eP	50	18.50	0.4
		eS	50	45.10					0.8s	39.66nm	5.4mb			i	50	38.50	72km				
RKG	42.35	192	eP	44	48.00	5.0X				pP	49	25.00	79km	OHR	96.81	313	eP	50	17.20	-1.5	
	0.7s	500.00nm						ABHA	81.85	287	ePd	49	10.73	2.8X		1.1s	65.00nm	6.1mb			
BRS	42.99	145	iPc	44	48.00	-0.4		KLU	82.25	29	P	49	09.70	0.7	ZST	97.15	321	eP	50	19.60	-0.4
		i(pP)	44	55.00	23kmX					pP	49	30.50	77km	TIR	97.41	313	eP	50	19.50	-1.8	
		e	46	37.00				ARO	82.42	281	ePd	49	12.00	1.3	LACI	97.44	314	eP	50	20.60	-0.8
GUN	43.46	303	P	44	52.06	-0.6		OBN	83.88	325	iP	49	17.00	-0.3	SDA	97.48	314	eP	50	20.00	-1.6
PKI	43.74	302	P	44	54.24	-0.6			1.4s	150.00nm	5.8mb	IGT	97.59	311	iP	50	20.90	-1.3			
ADE	43.79	166	iPd	44	55.10	0.4		Z	22s	0.80um	5.1msz	PRU	98.09	323	Pd	50	24.30	0.1			
	0.9s	336.13nm						E	22s	0.60um			1.4s	16.00nm	5.4mb						
KKN	43.92	303	P	44	55.56	-0.7				iP	49	38.00	77km		e	50	55.70	120kmX			
DMN	44.01	302	P	44	56.44	-0.5				esP	49	48.00		BRG	98.11	324	eP	50	24.50	0.2	
GKN	44.53	303	P	44	59.72	-1.3				ePP	52	35.00			1.1s	21.00nm	5.6mb				
CNB	47.72	155	iPd	45	27.00	1.0				iS	59	30.00			i	50	45.00	74km			
HYB	47.79	287	iPd	45	27.00	0.2				esS	00	07.00			i	50	55.20				
	1.0s	85.00nm						KVT	85.51	311	eP	49	26.80	0.9	CLL	98.49	324	iP	50	26.30	0.3
IRK	48.20	342	eP	45	29.20	-0.3		CSTJ	86.08	301	Pd	49	28.90	-0.1		1.9s	32.00nm	5.5mb			
		e	45	38.00	29kmX			MDSJ	86.38	301	Pd	49	30.14	-0.3		e	50	55.00	108kmX		
		e	46	02.00				JARJ	86.57	302	Pd	49	30.95	-0.4	KHC	99.00	322	P	50	29.00	0.6
		e	46	39.80				BHL	86.62	304	P	49	31.50	-0.1	PNT	99.41	37	P	50	31.00	0.7
TOO	48.22	160	eP	45	30.60	0.8		HRI	86.62	303	iPd	49	32.40	0.8		0.6s	1.80nm	4.8mb			
		i	45	56.00	107kmX			OTRJ	86.63	301	P	49	31.30	-0.3	MOX	99.56	324	eP	50	32.50	1.6
		e	47	06.00				INK	86.71	22	eP	49	31.00	-0.2	BUL	100.00	251	iPd	50	32.10	-1.5
KOD	48.56	277	eP	45	33.90	0.8				pP	49	50.50	71km		i	51	10.00	148kmX			
		eS	53	02.00				SALJ	86.82	302	Pd	49	31.97	-0.6		i	01	05.90			
DZM	48.91	128	iPc	45	35.30	-0.1		MASJ	86.82	301	Pd	49	32.14	-0.4	GRF	100.18	323	ePd	50	34.50	0.8
WMO	49.58	323	Pd	45	40.50	0.3		KFNJ	86.84	302	Pd	49	32.51	0.0	Z	24s	0.30um	4.7mszX			
	1.0s	50.00nm						MKRJ	86.91	301	Pd	49	32.59	-0.4		e(pP)	50	54.50			
Z	24s	1.00um						SOD	86.92	338	eP	49	29.00	-3.2X		e(sP)	51	05.30			
N	20s	0.56um							1.0s	32.00nm	5.4mb	NEW	101.35	38	Pd	50	39.00	0.0			
		PP	46	00.50				ATZ	87.07	303	iPd	49	34.70	1.0	FRB	108.01	7	ePKP	55	15.00	0.1
		PcP	47	00.00				HOL	87.70	299	ePd	49	38.70	2.0	RSSD	111.28	37	iPKP	55	22.00	-0.1
		ScP	50	48.00				RMN	87.90	300	iPd	49	38.30	0.5		1.0s	8.13nm				
		PcS	50	49.50				SBA	88.09	172	iPd	49	39.40	1.8	ALO	114.56	46	ePKP	55	29.80	1.1
		S	52	46.00				BBTK	88.15	310	eP	49	39.00	0.1		1.0s	7.00nm				
		ScS	55	22.00				KAF	88.18	332	eP	49	37.40	-1.0		e	56	02.00			
NDI	50.99	301	iPd	45	50.00	-1.1			0.6s	24.20nm	5.5mb	SCH	116.89	9	ePKP	55	33.00	0.8			
	0.7s	41.10nm								esP	49	39.00		LKO	129.42	289	PKP	55	56.96	-0.5	
		ePP	47	54.00				CSS	88.39	305	eP	49	40.00	0.0		0.7s	21.00nm				
		eSS	53	32.00				PPCY	89.20	305	eP	49	43.00	-0.8	KIC	129.52	285	PKP	55	57.66	0.1
		eSS	57	08.00				NUR	89.33	331	iP	49	42.90	-0.9	TIC	129.71	285	PKP	55	57.74	-0.2
POO	52.35	288	eP	46	01.10	-0.5			0.8s	24.90nm	5.5mb	LIC	129.83	285	PKP	55	58.22	0.1			
		iS	53	54.00				NAI	89.94	269	eP	49	45.00	-2.9X	LVN	148.89	150	ePKP	56	36.50	4.8X
TAU	53.63	161	eP	46	11.00	0.5		HRT	90.33	311	eP	49	44.00	-5.0X	LCCH	149.20	149	iPKPc	56	37.90	5.7X
YAK	54.43	2	iPd	46	15.50	-0.6		YLV	90.60	311	eP	49	48.50	-1.8	PCH	149.60	151	ePKP	56	34.50	1.5
		iP	46	32.00	63kmX			CFR	90.62	316	eP	49	49.00	-1.1		i	56	38.50			
		iPcP	47	23.00				DST	91.34	310	eP	49	51.00	-2.6X	MDZ	150.99	153	ePKP	56	37.80	2.8X
		iPP	48	18.00				VR1	91.46	316	ePd	49	54.50	0.5		i	56	42.60			
		iPPP	49	24.00				MLR	92.08	316	eP	49	57.00	0.0	ARE	160.24	118	ePKP	56	51.00	3.3X
		iS	53	47.00				IZM	92.62	309	eP	49	58.70	-0.8	ZOBO	163.20	122	PKP	56	52.80	1.8
		ePS	54	05.00				CMP	92.75	316	ePc	50	01.00	1.0		1.0s	35.00nm				
		iS	54	20.00				UPP	92.88	331	iP	49	52.60	-7.6X	Z	24s	0.25um				
		ScS	55	53.00				PVL	93.01	314	eP	50	01.00	-0.2		LR	54	12.00			
GAR	59.29	311	iP	46	50.40	-0.8		EZN	93.03	311	eP	50	00.70	-0.6	PDCR	165.07	249	ePKP	56	49.80	-2.2
		eS	54	53.00				TNR	93.18	317	ePc	50	03.00	1.0		e	57	48.50			
QUE	60.06	300	iPd	46	56.00	-0.7		DAG	93.51	352	iPd	50	02.30	-0.6		e	58	24.60			
	1.4s	1930.23nm							0.7s	30.82nm	5.8mb	PPD	165.43	188	ePKP	56	53.60	1.4			
		ePP	47																		

26d 18h

43.195 N 127.490 W
 DEPTH = 9.4km
 OFF COAST OF OREGON (30)
 <SEA>

KMOR	3.76	48	P	52	31.84	-7.9
NLO	4.08	44	P	52	37.39	-6.8
PGO	4.27	56	P	52	40.41	-6.4
BMW	4.47	41	P	52	42.33	-7.3
RVW	4.49	47	P	52	42.96	-7.0
VLMW	4.56	57	P	52	43.90	-7.1
LVP	4.63	50	P	52	45.06	-7.0
			S	53	35.50	
VBEM	4.64	64	P	52	44.92	-7.4
MTMW	4.71	51	P	52	46.09	-7.2
			S	53	37.90	
FL2	4.74	49	P	52	46.89	-6.7
SHW	4.80	50	P	52	47.78	-6.7
CZM	4.80	46	P	52	47.52	-7.0
ERK	4.81	48	P	52	47.57	-7.1
HSR	4.81	50	P	52	47.89	-6.9
JLK	4.82	50	P	52	47.68	-7.0
VFP	4.82	62	P	52	47.48	-7.4
REMW	4.83	50	P	52	48.42	-6.6
STD	4.83	49	P	52	48.03	-6.9
ESD	4.85	50	P	52	48.54	-6.7
CDFW	4.86	51	P	52	48.07	-7.2
APM	4.87	57	P	52	48.50	-7.0
SOSW	4.88	50	P	52	48.82	-6.8
TDL	4.90	48	P	52	49.06	-6.9
			S	53	42.00	
KOSW	4.99	47	P	52	50.38	-6.7
CROR	5.01	67	P	52	49.32	-8.1
GULW	5.02	55	P	52	50.46	-7.1
LMW	5.07	45	P	52	51.26	-7.0
ASR	5.14	53	Pc	52	52.28	-7.0
VIPM	5.14	73	P	52	51.36	-8.0
VGB	5.34	62	P	52	54.51	-7.6
VTHM	5.36	66	P	52	54.58	-7.9
GLK	5.37	49	P	52	55.62	-6.9
LON	5.37	47	P	52	55.81	-6.7
RVC	5.41	44	P	52	56.36	-6.8
WPW	5.48	48	P	52	57.06	-7.1
GL2	5.51	58	P	52	56.99	-7.5
FMW	5.56	46	P	52	58.23	-7.1
GSM	5.68	43	P	52	59.97	-6.9
NAC	5.90	51	P	53	03.25	-6.7
JBO	5.94	65	P	53	02.61	-7.9
MXC	6.13	54	P	53	05.95	-7.2
PATW	6.14	61	P	53	05.58	-7.7
EBG	6.15	50	P	53	06.61	-6.9
RSW	6.47	58	P	53	10.46	-7.5
GBL	6.64	56	P	53	12.79	-7.6

45 obs. associated

% APR 26, 1991 19h 06m 52.82±1.10s
 46.789 N ±11.1km 9.861 E ±8.2km
 DEPTH = 10.0km (geophysicist)

SWITZERLAND (544)

OSS	0.22	118	iP	06	57.30	-0.4
VDL	0.41	222	iPc	07	01.00	-0.2
LLS	0.60	278	iPc	07	03.80	-1.3
SLE	1.35	317	iP	07	18.20	0.5
MMK	1.50	241	eP	07	21.10	1.0
EMS	2.15	252	iP	07	34.80	5.4X

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

APR 26, 1991 19h 08m 34.45±0.46s
 39.267 N ±3.9km 22.934 E ±5.4km
 DEPTH = 10.0km (geophysicist)

GREECE (364)

ML 3.0 (ATH). MD 3.0 (THE).

AGG	0.53	243	iPc	08	44.82	-0.4
			eS	08	54.12	
PAIG	0.88	41	iPc	08	51.02	-0.2
			eS	09	03.04	
LIT	0.90	338	iPd	08	52.04	0.3
			eS	09	07.36	
OUR	1.34	37	ePd	08	58.24	-0.8
			eS	09	15.92	
THE	1.36	1	ePc	08	59.40	0.0
			iS	09	16.64	
KZN	1.37	320	ePb	09	00.20	0.5
ATH	1.43	154	ePg	09	01.00	0.6
			eSb	09	17.20	

SOH	1.59	12	ePc	09	02.89	0.2
			eS	09	22.52	
GRG	1.74	347	ePd	09	05.08	0.2
SRS	1.92	15	ePd	09	06.80	-0.6
			eS	09	30.20	
VAY	2.07	352	ePn	09	09.30	-0.3
VLS	2.13	240	ePg	09	15.40	4.8X
MMB	2.40	14	iPd	09	14.00	-0.4
			iS	09	43.00	
OHR	2.46	319	ePn	09	20.00	4.7X
VLI	2.54	180	ePn	09	16.00	-0.4
KKB	2.60	2	iP	09	17.00	-0.2
RDO	2.74	46	ePn	09	20.50	1.3
RZN	2.77	29	iP	09	19.00	-0.9
SKO	2.93	338	ePn	09	45.00	23.1X
VTS	3.33	3	eP	09	30.00	2.3X
			iS	10	07.00	
PGB	3.41	15	eP	09	30.00	1.2
PVL	4.34	24	eP	09	39.00	-2.9X
MLR	6.61	19	eP	10	16.00	1.9X

S.D. = 0.7 on 17 of 23 obs.

* APR 26, 1991 19h 14m 20.51±0.74s
 41.131 N ±12.3km 15.199 E ±11.9km
 DEPTH = 20.7 ± 9.6 km

SOUTHERN ITALY (390)

DUI	0.77	314	P	14	35.70	0.6
			eSg	14	46.50	
SDI	1.19	299	P	14	41.50	-0.5
			eSg	14	58.50	
ORI	1.43	138	P	14	45.20	-0.2
			eSg	15	05.20	
BRT	1.54	99	P	14	46.90	0.0
			eSg	15	07.20	
TDS	1.71	149	P	14	49.70	0.3
TRI	4.69	348	P	15	31.80	-0.1

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

* APR 26, 1991 20h 15m 10.06±1.34s
 7.280 S ±13.0km 130.682 E ±21.1km
 DEPTH = 33.0km (normal)

4.6mb (1 obs.)

TANIMBAR ISLANDS REGION (281)

AAI	4.34	325	ePd	16	15.60	0.1
KNA	8.62	192	eP	17	18.00	2.4X
	0.2s	18.00nm				5.9mb X
			eS	18	50.00	
QIS	15.78	148	eP	18	51.00	-0.5
			eS	21	42.00	
ASPA	16.58	170	eP	19	01.80	0.0
	0.3s	14.00nm				4.6mb
			eS	21	59.30	

S.D. = 1.4 on 5 of 9 obs.

* APR 26, 1991 20h 32m 38.95±2.21s
 31.637 S ±9.5km 68.627 W ±16.5km
 DEPTH = 96.7 ± 21.2 km

SAN JUAN PROVINCE, ARGENTINA (137)

MBL	17.33	216	eP	19	10.10	-1.1
WARB	19.19	191	eP	19	35.50	1.5
			eS	22	56.00	
NANU	21.07	222	eP	20	03.50	9.6X
CLL	112.78	323	ePd	29	46.00	-4.2X
	1.3s	75.00nm				
CDR	119.91	317	ePd	30	25.30	3.2X
			e	30	30.80	

S.D. = 1.4 on 5 of 9 obs.

* APR 26, 1991 20h 32m 38.95±2.21s

31.637 S ±9.5km 68.627 W ±16.5km

DEPTH = 96.7 ± 21.2 km

SAN JUAN PROVINCE, ARGENTINA (137)

ZON	0.10	334	iPd	32	52.70	-0.3
			eS	33	03.70	
RTCB	0.21	315	iPd	32	53.20	-0.1
			eS	33	00.50	
CFA	0.33	85	iPc	32	53.10	-0.5
			eS	33	04.00	
RTLL	0.33	24	iPc	32	53.00	-0.6
RTBS	0.70	268	ePd	32	57.00	0.7
MDZ	1.26	189	iP	33	04.10	1.6
			iS	33	24.80	
RTRS	1.63	334	iPd	33	07.80	0.8
			S	33	29.00	
JACH	1.97	237	iPd	33	12.10	0.5
			iS	33	38.50	
ROCH	2.42	236	iP	33	17.00	-0.7
			eS	33	46.50	
PCH	2.54	218	iP	33	19.30	0.1
			iS	33	52.50	

TACH	2.80	223	iP	33	22.20	-0.5
			iS	33	56.00	
LCCH	3.09	233	iP	33	25.60	-1.0
LNV	3.29	225	eP	33	27.00	-2.4X

S.D. = 0.9 on 12 of 13 obs.

? APR 26, 1991 21h 07m 35.82±2.18s
 31.728 S ±24.0km 69.615 W ±25.2km
 DEPTH = 110.0km (geophysicist)

SAN JUAN PROVINCE, ARGENTINA (137)

RTBS	0.15	64	ePc	07	51.50	0.0
RTCB	0.74	71	iPd	07	54.70	-0.2
			eS	08	09.50	
ZON	0.82	77	iPd	07	55.70	0.1
			eS	08	10.70	
RTLL	1.06	68	iPc	07	52.60	-5.3X
CFA	1.18	84	iPc	07	59.30	0.0
			eS	08	12.10	
RTRS	1.56	5	iPc	08	03.70	0.0
			S	08	25.00	

S.D. = 0.1 on 5 of 6 obs.

* APR 26, 1991 21h 47m 38.53±1.26s
 14.221 S ±12.8km 75.514 W ±13.8km
 DEPTH = 67.1 ± 12.3 km

4.1mb (1 obs.)

NEAR COAST OF PERU (115)

Felt at Huoroz.

PT10	2.56	326	iPd	48	19.80	1.2
			i	48	36.50	
			eS	48	48.50	
NNA	2.57	330	iP	48	17.50	-1.2

0.6s 300.00nm

i 48 18.30

eS 48 48.00

eP 48 45.00 -0.7

iS 49 37.50

ZOBO 7.42 107 Pc 49 28.20 1.2

S 51 08.00

LPB 7.51 109 P 49 31.90 3.7X

1.0s 104.00nm 5.5mb X

SIV 14.06 99 P 50 54.00 -2.0

MDZ 19.55 163 e(P) 52 03.70 0.1

SDV 23.46 12 eP 52 44.60 1.5

PPD 24.25 112 eP 52 51.90 1.3

TOV 24.52 14 eP 52 54.80 1.6

SCH 69.16 5 eP 58 39.00 -0.6

SES 71.48 337 eP 58 53.00 -0.9

FRB 77.91 3 eP 59 29.00 -1.2

SBA 81.78 191 P 59 52.10 1.2

YKA 82.34 343 eP 59 52.80 -1.2

0.6s 1.30nm 4.1mb

S.D. = 1.4 on 14 of 15 obs.

% APR 26, 1991 22h 23m 40.46±0.85s
 16.349 N ±8.3km 61.375 W ±6.9km
 DEPTH = 10.0km (geophysicist)

LEEWARD ISLANDS (92)

ML 2.4 (FDF).

SEG	0.14	293	ePc	23	44.50	0.8
			S	23	46.60	
SFG	0.20	119	eP	23	44.74	0.0
			S	23	47.30	
DEG	0.30	97	iPc	23	46.40	-0.4
			S	23	50.40	

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

L.P.B.: 14S, 22C					LR 41 10.00					0.7s 63.00nm 5.6mb				
Centroid Location:					BHL 28.76 271 P 30 03.00 2.1					i 31 17.50				
Origin Time 22:24: 4.4 0.7					S 35 20.00					i 31 20.70				
Lot 38.87N 0.10 Lon 70.35E 0.13					KOD 29.20 167 eP 30 04.00 -1.2					SKO 37.40 291 iP 31 18.50 2.9X				
Dep 33.0 FIX Half-duration 1.5					eS 35 15.00					i 32 47.50				
Moment Tensor; Scale 10**16 Nm					KMSA 29.40 239 ePc 30 06.10 -0.6					SOD 37.51 334 eP 31 24.00 7.9X				
Mrr= 5.55 0.54 Mtt=-1.97 0.83					BBTK 29.41 284 ePc 29 48.00 -18.7X					PSZ 37.55 301 eP 31 17.00 0.1				
Mff=-3.57 0.61 Mrt= 3.63 1.70					i 30 07.00					BEO 37.57 296 eP 31 16.50 -0.4				
Mrf=-0.29 1.85 Mtf=-5.05 0.67					BTO 29.87 74 P 30 10.50 -0.3					BUD 38.18 300 e(P) 31 23.00 0.9				
Principal Axes:					N 14s 2.20um					UZD 38.60 299 e(P) 31 28.00 2.4				
T Val= 7.52 Plg=60 Azm= 27					E 14s 4.10um					SRO 38.62 301 eP 31 25.20 -0.6				
N 0.72 29 133					KMI 30.07 108 Pc 31 13.00					DL2 38.96 74 Pc 31 29.00 0.3				
P -8.24 9 133					1.0s 80.00nm 5.4mb					Z 20s 1.60um 4.8Msz				
Best Double Couple: Ma=7.9*10**16					Z 14s 2.20um 5.0MszX					OIZ 38.98 109 Pc 31 28.50 -0.6				
NP1: Strike=193 Dip=43 Slip= 46					N 10s 0.50um					N 15s 2.20um				
NP2: 66 60 123					E 10s 0.90um					eS 37 25.00				
KSH 3.90 81 P 25 07.30 2.9					XAN 30.73 87 P 30 17.50 -0.9					UPP 39.15 320 iP 31 28.80 -1.1				
QUE 9.38 202 eP 26 18.00 -3.1X					0.9s 100.00nm 5.6mb					NJ2 39.20 85 iPc 31 31.50 0.7				
0.8s 694.03nm 6.8mb X					N 12s 2.10um					0.8s 100.00nm 5.7mb				
eS 28 02.60					E 12s 2.20um					Z 14s 1.30um 4.9MszX				
MAIO 9.51 257 iPc 26 16.30 -6.4X					HHC 30.98 73 P 30 20.80 0.2					N 12s 1.00um				
0.9s 27.71nm 5.4mb					Z 18s 3.10um 5.0Msz					E 12s 1.50um				
eS 27 57.00					N 10s 1.30um					iPcP 33 40.00				
NDI 11.49 151 iPd 26 46.00 -3.7X					E 11s 1.40um					S 37 33.00				
0.5s 112.68nm 6.2mb X					CHG 31.46 122 ePc 30 23.70 -1.2					GZH 39.22 101 P 31 31.00 0.0				
iS 28 54.00					1.0s 28.25nm 5.0mb					Z 18s 1.80um 4.9Msz				
WMO 13.43 64 iPc 27 13.00 -2.5X					YLV 31.82 286 iP 30 27.80 -0.1					eS 37 32.00				
Z 16s 3.70um					DHJN 32.00 236 eP 30 21.00 -9.0X					KTK1 39.36 335 eP 31 30.65 -1.0				
PP 27 23.50					ABHA 32.06 238 ePc 30 33.00 2.6X					ZST 39.38 302 e(P) 31 31.40 -0.7				
S 29 43.20					CFR 32.10 295 eP 30 29.00 -1.2					SNY 39.63 69 Pc 31 33.50 -0.7				
SS 29 57.00					KHL 32.20 282 eP 30 31.00 -0.3					1.0s 50.00nm 5.3mb				
KKN 16.31 129 P 27 46.50 -6.5X					GYA 32.30 102 iPc 30 32.60 0.3					KSP 39.65 306 eP 31 34.00 -0.3				
DMN 16.34 130 P 27 48.00 -5.3X					1.0s 100.00nm 5.6mb					VKA 39.90 302 eP 31 36.00 -0.4				
PKI 16.55 129 P 27 50.58 -5.5X					Z 16s 1.80um 4.9MszX					HKC 40.29 102 eP 31 40.60 0.8				
GUN 16.59 127 P 27 50.90 -5.8X					N 16s 2.20um					PTJ 40.51 298 eP 31 41.50 0.0				
SHI 17.85 244 eP 28 10.00 -2.1					E 16s 1.60um					CN2 40.52 65 iPc 31 41.00 -0.5				
LSA 19.01 113 iPc 28 25.50 -1.1					SP 30 47.00					1.0s 40.00nm 5.1mb				
PP 28 33.40					SS 36 03.00					Z 18s 5.40um 5.4Msz				
eS 31 59.90					ELL 32.32 279 eP 30 34.10 1.7					N 10s 1.00um				
TAB 19.31 275 eP 28 29.00 -0.7					TIY 32.33 79 Pc 30 32.50 0.1					E 10s 1.20um				
BOM 20.07 175 eP 28 33.50 -4.2X					1.0s 50.00nm 5.3mb					ePP 31 50.00				
eS 32 25.50					Z 19s 2.50um 4.9Msz					PP 33 18.00				
POO 20.52 172 iPc 28 40.80 -1.7					N 11s 1.60um					PcP 33 43.00				
0.9s 198.32nm 5.5mb					DST 32.58 285 eP 30 31.00 -3.5X					eS 37 48.00				
DHR 21.58 240 eP 28 53.00 0.0					BDT 32.63 124 eP 30 35.00 0.0					eSS 40 43.00				
GTA 22.30 80 iPc 29 00.80 0.4					1.0s 84.20nm 5.5mb					BRT 40.75 290 P 31 48.20 4.7X				
1.0s 180.00nm 5.5mb					VRI 33.06 297 eP 30 29.00 -9.5X					PRU 40.84 305 Pd 31 44.70 0.6				
Z 10s 4.50um 5.2MszX					MLR 33.63 296 iPc 30 44.00 0.3					1.4s 14.00nm 4.5mb				
N 12s 3.40um					KHT 34.20 127 iPc 30 49.50 0.8					Z 12s 1.00um 4.9MszX				
PP 29 10.00					EZN 34.26 286 eP 30 49.30 0.3					N 12s 1.00um				
SP 29 12.50					CMP 34.29 296 ePc 30 50.00 0.7					E 12s 1.00um				
PP 29 34.00					LOE 34.32 120 iPc 30 49.00 -0.7					e 31 47.00				
HYB 22.47 161 eP 29 00.80 -1.3					PVL 34.34 292 eP 30 52.00 2.3					e 33 23.20				
1.0s 165.00nm 5.4mb					NST 34.51 124 iPc 30 52.50 1.1					TRQ 41.01 335 eP 31 44.80 -0.4				
eS 33 08.00					BJI 34.59 74 eP 30 52.00 0.2					VBY 41.06 298 eP 31 46.00 0.1				
RYD 25.02 243 ePc 29 27.50 0.8					1.0s 71.00nm 5.6mb					BRG 41.12 306 iPd 31 46.80 0.4				
GBA 25.91 166 Pc 29 33.40 -1.6					N 14s 2.13um					1.0s 22.00nm 4.8mb				
1.0s 55.00nm 5.1mb					TNR 34.78 296 ePc 30 54.00 0.5					i 33 18.00				
LZH 26.13 86 Pc 29 38.00 0.9					RZN 35.06 290 iPc 30 56.00 -0.1					e 33 24.00				
1.5s 200.00nm 5.5mb					PGB 35.30 291 eP 30 59.00 1.0					e 41 16.00				
Z 19s 3.15um 4.9Msz					KAF 35.57 325 iP 30 59.00 -0.9					SSE 41.41 85 Pc 31 50.30 1.4				
E 12s 2.62um					0.7s 8.40nm 4.8mb					Z 20s 1.60um 4.9Msz				
SP 29 53.50					esP 30 59.80					N 13s 0.70um				
S 34 10.00					DEV 35.71 297 ePc 31 03.00 1.7					E 13s 1.10um				
IRK 26.56 49 iP 29 40.90 0.2					MMB 35.80 290 eP 31 04.00 1.8					PP 32 00.00				
i 29 43.00					NUR 35.84 322 iP 30 59.80 -2.4X					PP 33 31.00				
ePP 30 03.00 100kmX					0.8s 32.30nm 5.3mb					LJU 41.46 299 eP 31 50.00 0.8				
ePP 30 34.00					e 38 04.00					i 31 53.40				
ePcP 32 16.30					VTS 35.99 291 eP 31 05.00 1.1					i 31 53.70				
eSS 34 34.00					KKB 36.22 290 iPc 31 06.00 0.3					i 50 44.00				
esS 35 09.00					WHN 36.32 90 iPc 31 07.70 1.1					AAE 41.50 233 eP 31 51.70 1.5				
KVT 26.74 286 eP 29 50.00 7.5X					1.0s 200.00nm 6.0mb					KHC 41.58 303 iP 31 50.40 0.2				
CD2 27.92 97 Pc 29 54.00 0.6					Z 16s 1.40um 4.8MszX					1.0s 10.00nm 4.5mb				
1.0s 200.00nm 5.7mb					N 11s 1.80um					e 33 29.20				
Z 12s 2.30um 5.0MszX					PP 31 20.00					CEY 41.59 298 e(P) 31 52.50 2.2				
E 10s 2.50um					TIA 36.36 80 Pc 31 07.70 0.8					CLL 41.67 307 iP 31 50.90 0.1				
OBN 28.08 316 iP 29 54.00 -0.4					1.2s 100.00nm 5.6mb					1.7s 36.00nm 4.8mb				
1.2s 130.00nm 5.5mb					Z 20s 1.90um 4.9Msz					TDS 41.73 289 P 31 55.00 3.5X				
Z 10s 1.70um 4.9MszX					N 10s 0.80um					VOY 41.90 299 eP 31 53.10 0.2				
N 10s 0.70um					E 13s 1.40um					YAK 41.99 37 iPc+ 31 52.70 -0.6				
E 10s 1.40um					PcP 33 30.40					iPP 32 20.00 119kmX				
iPP 30 49.00					VAY 36.71 290 eP 31 10.00 0.2					iPP 33 32.00				
eS 34 36.00					ARO 37.06 230 ePd 31 15.00 1.9					iPP 33 42.00				
i 35 00.00					SPC 37.22 303 eP 31 14.10 -0.1					iPPP 34 16.00				
eSS 36 10.00					KRA 37.37 304 iP 31 15.00 -0.2					iS 38 11.00				
LO 39 50.00										ePS 38 37.00				

	eS	39	04.00			Z	1.0s	14.00nm	4.9mb	MUN	82.16	142	eP	36	22.00	-0.6
	eScS	39	42.00				21s	0.43um	4.4MsZ	LAT	83.39	104	eP	36	31.24	1.9
KBA	eScS	41	29.00			LBF	48.32	302 eP	-1.3	COOL	83.72	138	eP	36	30.50	-0.2
	iPc	31	53.90	-0.5			1.0s	16.00nm	5.0mb		0.6s	13.00nm				5.2mb
	1.1s	44.70nm		5.1mb		SSF	48.61	303 eP	-1.2	PMG	85.28	106	eP	36	40.00	1.2
	i	31	56.80				1.1s	18.30nm	5.0mb	ASPA	85.67	125	iPc	36	40.30	-0.4
	i	32	08.00			BAG	48.63	103 eP	-1.0		0.8s	52.80nm				5.8mb
	i	32	26.70			AVF	48.79	302 eP	-1.1	FFC	86.47	356	iPc	36	44.80	0.6
	e	33	38.00				1.1s	41.50nm	5.4mb		1.2s	107.00nm				6.0mb
	i	33	54.20			8GF	49.19	302 eP	-1.4	QIS	87.27	119	iPc	36	48.70	0.2
BHG	eP	31	56.00	0.2			1.0s	19.00nm	5.1mb	EDM	88.10	3	iPc	36	53.00	0.9
QZH	Pc	31	56.00	-0.1		MAF	49.47	302 eP	-0.6	SES	90.99	1	ePc	37	06.00	0.2
	0.8s	90.00nm		5.6mb			0.8s	26.20nm	5.3mb		0.8s	40.00nm				5.9mb
	Z 16s	2.37um		5.2MsZ	TCF	49.69	302 eP	-0.8		CTA	91.57	115	iPc	37	09.00	0.3
	N 12s	1.03um					1.0s	28.00nm	5.2mb		1.0s	76.50nm				6.1mb
NSS	eP	31	56.25	-0.5		LSF	50.15	302 eP	-1.2	PNT	91.58	7	ePc	37	09.00	0.5
NB2	Pc	31	55.40	-1.6			0.8s	12.10nm	5.0mb		0.9s	57.00nm				6.0mb
	0.7s	19.50nm		4.9mb	CAF	50.21	300 eP	-0.4		PGC	91.81	10	eP	37	11.00	1.5
LOF	eP	31	56.23	-0.7			1.4s	50.10nm	5.3mb	MCW	91.86	9	P	37	11.50	1.6
FV1	Pc	31	59.30	1.3		LDF	50.51	306 eP	-1.1	NEW	92.84	5	P	37	15.70	1.3
MOX	eP	31	59.00	0.3			0.6s	14.45nm	5.2mb		1.0s	48.13nm				5.9mb
	1.6s	46.00nm		5.0mb	EKA	50.53	315 Pc	-3.1X		GMW	92.98	9	P	37	17.40	2.4
	Z 16s	1.70um		5.0MsZ		1.1s	20.10nm	5.1mb	DPW	93.14	6	P	37	17.00	1.2	
	eS	38	25.00		FLN	50.69	306 eP	-1.1	LON	93.89	9	P	37	21.00	1.8	
GRF	ePc	32	02.90	1.0			0.9s	16.40nm	5.0mb	SHW	94.38	9	P	37	23.80	2.2
	Z 22s	0.80um		4.6MsZ		Z 21s	0.70um	4.7MsZ		LRM	95.52	2	eP	37	27.70	0.7
	e	32	06.40		TSRJ	50.86	72 eP	-0.5	RSSD	97.16	356 P			37	36.00	1.6
ARV	P	32	09.60	6.7X	GRR	51.04	305 eP	-1.1	BW06	98.62	0	P	37	43.00	1.9	
MDJ	Pc	32	03.50	-0.2		0.8s	22.85nm	5.2mb	SPA	128.79	180	iPKPd	43	08.40	-0.1	
	Z 14s	1.70um		5.1MsZ	LFF	51.10	301 eP	-0.4		1.0s	17.00nm					
	N 11s	1.60um				0.6s	12.65nm	5.1mb	SBA	128.96	164	PKP	43	10.40	2.0	
	E 11s	2.00um			MFF	51.14	303 eP	-1.2	SIV	132.36	285	PKP	43	15.20	-1.5	

BRT	2.66	164	eSn	36	30.00	-1.8	HAU	8.29	307	Sn	38	35.40	-2.5X	MDJ	27.34	251	eP	42	07.80	2.8X
			P	35	53.00					Pn	37	11.70		CN2	29.89	254	eP	42	27.00	-1.0
ULC	2.66	123	eSn	36	25.10					Sn	38	42.20			1.0s		10.00nm			4.6mb
			iPnc	35	55.33	0.5	LBF	9.35	296	Pn	37	25.20	-3.7X		Z	15s		3.20um		5.1mszX
IVA	2.73	101	iSn	36	28.13					Sn	39	06.00			N	15s		1.20um		
			iPnd	35	55.52	-0.4	LOR	9.52	298	Pn	37	27.60	-3.6X		E	15s		1.00um		
SDA	2.79	120	iSn	36	30.20					Sn	39	09.60					ePP	42	35.00	
			ePn	36	02.70	6.1X	SSF	9.68	296	Pn	37	30.70	-2.7X				eS	47	24.00	
RSM	2.79	281	iSn	36	47.00					Sn	39	12.90		MAT	30.39	230	(P)	42	32.00	-0.4
			P	35	56.60	0.0	AVF	9.71	295	Pn	37	30.80	-2.9X			2.0s		276.47nm		5.7mb
			eSn	36	29.80		BGF	9.99	293	Pn	37	34.80	-2.8X		Z	20s		0.71um		4.3msz
MNS	2.82	249	P	35	58.00	0.9				Sn	39	20.00					eS	47	50.00	
			eSn	36	30.40									MTMJ	30.50	231	eP	42	33.40	-0.1
PVY	2.86	106	iPnd	35	57.87	0.1								CHJJ	30.53	228	eP	42	33.50	-0.2
			iSn	36	32.62									TSRJ	32.12	232	eP	42	47.30	-0.3
LJU	2.87	335	iPn	35	58.90	1.2								SNY	32.28	254	eP	42	48.50	-0.5
			i	36	02.00										Z	18s		1.10um		4.6msz
LJU	2.87	335	iPg	36	04.00	6.3X									N	14s		1.30um		
			i	36	06.00										E	13s		1.00um		
			iSn	36	33.70												S	48	02.00	
			i	36	40.80												eP	43	07.00	0.8
TRI	2.87	323	ePn	35	58.00	0.3											eS	48	37.00	
			iPg	36	04.00		DZM	18.57	245	iPc	29	30.10	1.1	IRK	34.28	284	eP	43	07.00	0.8
			iSn	36	32.01		LTZ	29.57	199	eP	31	13.00	0.8				eS	48	37.00	
			iSg	36	44.60		MMCZ	32.57	201	P	31	38.30	-0.2	YKA	35.14	52	eP	43	12.60	-0.8
VOY	3.08	328	iSg	36	44.60		MHZ	32.58	200	P	31	38.40	-0.1			0.7s		5.30nm		4.6mb
			ePnd	36	01.30	0.6	TLC	32.76	201	P	31	40.30	0.2	BJI	37.20	260	eP	43	31.50	0.5
			eSn	36	39.10		TOO	41.20	230	iPc	32	49.10	-1.5			1.5s		39.00nm		5.0mb
RMP	3.08	239	P	36	01.30	0.6	STK	42.55	239	iPd	33	00.50	-1.1		N	11s		0.57um		
RDP	3.10	238	P	36	02.40	1.4								BTO	39.76	266	eP	43	52.00	-0.6
CRE	3.13	275	P	36	02.80	1.4									N	14s		1.00um		
LACI	3.13	124	ePn	36	04.00	2.6									E	14s		1.40um		
			iSn	36	55.90		ASPA	48.40	252	iPd	33	47.80	0.1	PNT	41.36	72	ePd	44	06.00	0.5
SFI	3.22	280	P	36	03.00	0.3	WARB	54.99	248	iPc	34	36.30	-0.4	EDM	41.47	63	iPd	44	07.90	1.5
BEO	3.33	64	ePn	36	08.50	4.3X								SSE	42.17	246	Pc	44	13.00	0.7
			iSn	36	48.40		MBL	61.52	254	eP	35	22.90	1.0			1.2s		17.00nm		4.7mb
LCI	3.36	157	P	36	04.00	-0.6	NANU	65.34	252	iPd	35	58.10	11.4X		Z	20s		0.60um		4.5msz
ORI	3.38	177	P	36	04.30	-0.7									N	18s		0.70um		
			eSn	36	43.50										E	18s		0.50um		
TIR	3.41	127	ePn	36	05.20	-0.1											eS	50	32.00	
UZD	3.56	27	ePn	36	07.30	-0.1								NJ2	42.42	249	Pd	44	15.00	0.7
VVI	3.72	314	P	36	09.90	0.1									Z	20s		0.40um		4.3msz
TDS	3.78	179	P	36	09.80	-0.9									N	13s		1.10um		
			eSn	36	52.40										E	13s		0.60um		
FVI	3.99	323	P	36	13.00	-0.5											eS	50	36.00	
			eSn	36	57.50		SSE	6.43	317	eP	11	47.20	0.0	DAG	42.57	2	iPd	44	18.80	3.7X
MME	4.08	282	P	36	15.00	-0.1										0.5s		12.68nm		4.9mb
SKO	4.10	109	iPn	36	15.20	0.0	OIS	48.49	163	iPc	18	43.80	-0.1				iPp	48	20.30	
OHR	4.11	123	ePn	36	16.00	0.7	STK	59.82	165	eP	20	06.40	0.2	NEW	43.27	71	P	44	21.80	0.6
BDI	4.14	281	P	36	16.50	0.8										1.0s		5.63nm		4.3mb
KBA	4.17	332	iPnc	36	16.20	-0.1	INK	69.38	23	eP	21	08.00	0.5	SES	44.49	65	ePc	44	31.20	0.2
			i	36	19.50		HFS	77.80	332	eP	21	56.60	0.2	FFC	45.18	55	ePc	44	35.90	-0.6
			i	36	32.20											1.0s		18.00nm		4.9mb
			iSn	36	59.80		NB2	78.33	333	P	21	59.20	-0.2	XAN	45.47	261	eP	44	38.80	-0.3
			i	37	06.80										N	15s		0.80um		
CTI	4.18	310	P	36	16.10	-0.3	YKA	79.06	24	eP	22	02.70	-0.5		E	15s		0.80um		
			eSn	37	01.60															
SRO	4.60	18	iPc	36	21.60	-0.7								LZH	46.30	267	eP	44	45.50	-0.2
SAL	4.62	300	P	36	22.50	-0.1										1.6s		29.00nm		5.0mb
ZST	4.79	7	i(P)	36	23.70	-1.2									Z	20s		0.53um		4.5msz
			i	36	30.30										N	15s		1.33um		
			i	37	19.70										E	14s		1.03um		
SCE	4.81	320	iPnc	36	25.40	0.0											PP	44	57.50	
VKA	4.82	1	iPnc	36	25.20	-0.2											eS	51	36.00	
			i	36	33.70									KEV	46.59	342	iP	44	51.80	4.4X
			iSn	37	15.70		TTA	17.43	67	P	40	29.60	6.2X			0.9s		16.90nm		5.0mb
BHG	4.88	332	iPnd	36	26.70	0.4								LRM	47.23	70	eP	44	53.50	0.4
WTTA	5.01	321	iPnd	36	28.80	0.6	YAK	17.67	290	iPc+	40	28.70	2.4	SOD	48.82	341	iP	45	08.30	3.5X
			ic	36	28.90									FRB	48.88	29	eP	45	04.50	-0.7
			iSn	37	28.70									CD2	50.53	263	eP	45	17.50	-0.9
OGA	5.03	315	iPnc	36	28.40	-0.2								BW06	50.89	71	P	45	21.30	0.0
BOB	5.07	287	P	36	29.30	0.3										1.1s		12.90nm		4.8mb
PSZ	5.15	28	ePn	36	28.90	-1.2								RSSD	52.35	65	P	45	31.80	-0.5
SOTA	5.18	319	iPnd	36	31.00	0.4								CLC	52.57	82	eP	45	33.00	-0.9
			ic	36	31.20									GYA	52.84	258	P	45	36.00	0.0
			iSn	37	29.80										N	17s		1.00um		
KHC	5.98	343	Pn	36	41.20	-0.5									E	17s		2.00um		
			Pg	36	50.00												S	53	03.00	
			Sg	37	51.00		IMA	18.11	56	P	40	33.60	1.7	MSU	53.02	76	P	45	37.70	0.3
PRU	6.65	350	ePn	36	50.70	-0.5								GSC	53.37	82	eP	45	40.00	0.2
			eSg	38	11.00		PDB	19.10	76	P	40	43.20	-0.6	KAF	53.72	338	iP	45	41.40	-0.4
BNI	7.06	286	P	36	54.80	-2.3X	FBA	20.67	59	P	41	00.50	-0.2			0.5s		12.60nm		5.2mb
LPG	7.09	290	Pn	36	55.20	-2.5											eS	45	45.50	
LPL	7.11	290	Pn	36	55.30	-2.6	TOA	22.05	66	P	41	15.30	0.6	NUR	55.51	338	iP	45	54.30	-0.6
HOF	7.49	338	eP	37	01.50	-1.5X										1.0s		26.00nm		5.2mb
BSF	7.94	307	Pn	37	06.90	-2.5X	KLU	22.36	68	P	41	19.00	1.2	NB2	57.00	346	P	46	04.90	-0.8
			Sn	38	34.60		INK	25.61	48	eP	41	49.00	0.1			0.9s		42.10nm		5.5mb
														SCH	57.08	34	eP	46	06.00	-0.4
CDF	7.98	312	Pn	37	07.80	-2.1X														

LSF	51.72	304	eP	47	57.10	-0.8
LDF	52.19	307	eP	48	00.70	-0.6
	0.9s		13.10nm			4.4mb
FLN	52.38	307	eP	48	01.90	-0.7
GRR	52.72	307	eP	48	04.20	-0.9
	0.9s		18.00nm			4.5mb
MFF	52.74	305	eP	48	04.50	-0.8
	0.9s		6.55nm			4.1mb
LKO	73.85	270	P	50	22.98	-0.6
	0.5s		8.00nm			4.7mb
INK	73.93	9	eP	50	23.50	0.4
KIC	75.00	267	P	50	30.20	0.0
	0.6s		11.50nm			4.8mb
TIC	75.06	267	P	50	30.60	0.1
LIC	75.32	267	P	50	30.70	-1.2
	0.5s		5.50nm			4.5mb
YKA	81.29	3	eP	51	03.40	0.1
	0.6s		2.70nm			4.2mb
ASPA	84.04	125	iPc	51	18.50	0.5
	0.5s		9.90nm			4.9mb
S.D. = 0.9 on 42 of 43 obs.						
<hr/>						
* APR	27,	1991	00h	56m	59.19±	1.66s
	38.687	N	±	9.6km	15.837	E ±12.2km
DEPTH = 93.1 ± 27.7 km						
SICILY (398)						
ATN	0.60	209	Pd	57	15.10	-0.2
			eSg	57	26.00	
TDS	1.05	22	P	57	19.80	-0.1
			eSn	57	35.00	
MNO	1.17	230	Pd	57	21.90	0.3
			eSg	57	37.00	
ORI	1.45	19	P	57	26.50	1.6
			eSn	57	44.00	
GIB	1.58	244	Pd	57	26.50	-0.2
			eSg	57	46.00	
MEU	1.74	205	P	57	28.70	0.0
			eSg	57	49.00	
SGO	1.91	348	P	57	29.50	-1.3
LCI	2.32	44	P	57	36.70	0.4
			eSg	58	04.20	
8RT	2.43	25	P	57	36.30	-1.5
			eSg	58	04.80	
DUI	3.15	341	P	57	48.50	0.7
SDI	3.39	333	P	57	51.30	0.3
SKO	5.39	51	e(Pn)	59	06.50	47.8x
S.D. = 1.0 on 11 of 12 obs.						
<hr/>						
% APR	27,	1991	02h	14m	07.03±	0.93s
	36.990	N	±	10.3km	29.446	E ± 6.6km
DEPTH = 10.0km (geophysicist)						
TURKEY (366)						
MD 3.6 (ISK).						
ELL	0.44	123	iPg	14	15.60	-0.5
			iSg	14	21.60	
YER	0.94	279	ePn	14	25.40	0.4
BCK	1.03	62	iPn	14	27.30	0.8
CIN	1.24	300	eP	14	30.00	-0.1
KHL	1.33	3	ePn	14	30.90	-0.8
S.D. = 0.9 on 5 of 5 obs.						
<hr/>						
APR	27,	1991	02h	29m	35.49±	0.59s
	40.172	N	±	7.7km	113.140	E ± 7.4km
DEPTH = 10.0km (geophysicist)						
4.2mb (3 obs.)						
NORTHEASTERN CHINA (658)						
ML 3.7 (BJI).						

Lg 33 55.50				PRU 22.74 305 eP 37 07.00 5.3X	eS 01 18.25
GTA 10.29 270 P	32 05.80 -0.5			e 37 25.00	01 02.29 -0.1
GYA 14.70 203 P	33 06.20 0.8			KBA 22.98 298 e(P) 37 01.00 -3.4X	eS 01 19.95
GUN 25.58 250 P	35 00.00 -6.7X			1.0s 8.00nm 4.2mb	BGL 1.39 255 eP 01 02.43 0.0
HFS 60.44 325 eP	39 46.90 -0.3			i 37 13.30	eS 01 20.73
0.4s 0.60nm 4.1mb				KHC 23.15 303 eP 37 03.20 -2.6	GLI 1.44 121 ePc 01 02.35 -0.7
NB2 61.04 327 P	39 50.80 -0.5			BRG 23.34 307 e(P) 37 16.00 8.5X	eS 01 20.95
0.9s 1.70nm 4.2mb				2.0s 48.00nm 4.7mb	SEW 1.55 177 ePc 01 03.63 -0.9
INK 61.08 23 eP	39 52.00 0.6			NUR 23.62 336 iP 37 11.20 1.0	eS 01 24.27
YKA 70.74 21 eP	40 52.00 -1.3			e 37 17.00	VZW 1.59 110 ePc 01 04.94 -0.3
0.8s 2.00nm 4.3mb				CLL 24.03 308 eP 37 16.00 1.8	eS 01 24.83
S.D. = 1.1 on 11 of 13 obs.				1.4s 18.00nm 4.5mb	KNIM 1.59 144 iPd 01 03.69 -1.5
% APR 27, 1991 02h 46m 03.02±0.69s				KAF 24.45 340 iP 37 18.80 0.6	eS 01 24.49
46.503 N ± 9.6km 2.938 E ± 7.3km				0.8s 7.00nm 4.3mb	VLZ 1.66 107 iPc 01 05.77 -0.4
DEPTH = 10.0km (geophysicist)				esP 37 22.70	eS 01 26.70
FRANCE (538)				UPP 25.64 329 eP 37 33.00 3.4X	TOA 1.69 73 iPc 01 07.80 1.0
ML 2.1 (LDG).				HFS 27.40 327 eP 37 44.60 -1.2	RDT 1.73 233 eP 01 07.08 -0.2
BGF 0.08 311 Pg	46 05.60 0.0			0.7s 2.10nm 4.0mb	eS 01 28.96
Sg 46 07.40				e 37 48.60	KLU 1.77 93 ePc 01 07.28 -0.6
MAF 0.38 223 Pg	46 10.90 0.1			e 37 50.80	RND 1.80 11 ePd 01 08.42 0.1
Sg 46 16.20				NB2 28.92 327 P	NNL 1.81 208 eP 01 08.86 0.6
AVF 0.41 45 Pg	46 11.20 -0.1			0.7s 0.80nm 3.6mb	LTI 1.82 151 eP 01 07.85 -0.7
Sg 46 16.30				SOD 28.92 346 iP	DFR 1.83 236 eP 01 08.52 -0.2
TCF 0.55 247 Pg	46 14.00 -0.1			31.00 349 eP	38 20.00 2.1
Sg 46 21.30				GBA 39.61 122 P	39 31.00 -1.0
LBF 0.86 56 Pg	46 19.70 0.0			FRB 63.56 333 eP	42 30.00 -1.0
Sg 46 31.50				INK 71.90 359 eP	43 22.00 -1.2
LOR 0.99 39 Pg	46 21.90 0.0			YKA 76.28 350 eP	43 47.70 -0.9
Sg 46 34.80				1.0s 1.20nm 3.9mb	RDN 1.90 235 eP 01 09.52 -0.3
LSF 1.01 256 Pg	46 22.10 0.0			S.D. = 1.5 on 21 of 30 obs.	eS 01 33.48
Sg 46 36.20				? APR 27, 1991 03h 58m 04.28±10.84s	MTU 1.92 149 ePd 01 08.50 -1.4
S.D. = 0.1 on 7 of 7 obs.				47.009 N ± 48.9km 1.530 W ± 96.6km	RSO 1.93 234 eP 01 10.05 -0.2
* APR 27, 1991 02h 46m 31.73±0.94s				DEPTH = 10.0km (geophysicist)	RS2 1.93 234 eP 01 09.31 -1.0
69.987 N ± 8.0km 156.096 W ± 10.7km				FRANCE (538)	NCT 1.94 237 eP 01 10.50 0.2
DEPTH = 33.0km (normol)				ML 2.1 (LDG).	RDW 1.94 235 eP 01 10.63 0.2
3.2mb (1 obs.)				MFF 1.03 113 Pg	HIN 1.96 128 ePd 01 09.79 -0.8
ALASKA (676)				Sg 58 23.70 -0.1	eS 01 33.69
ML 3.5 (PMR).				LPF 1.08 18 Pg	RED 1.97 233 ePc 01 10.46 -0.2
BRW 1.34 351 iP	46 55.00 0.8			Sg 58 34.30	TZL 2.03 77 eP 01 12.14 0.7
IMA 4.04 166 eP	47 32.50 -0.4			GRR 1.45 18 Pg	SDG 2.11 63 ePc 01 13.18 0.5
FBA 6.02 144 eP	48 00.60 -0.2			Sg 58 34.40	MCK 2.12 8 eP 01 13.40 0.6
ANM 6.52 218 eP	48 06.90 -0.8			Sg 58 46.40	CVA 2.18 119 eP 01 14.64 1.1
TTA 7.09 180 eP	48 15.90 0.1			LDF 1.85 30 Pg	CNPM 2.27 201 ePc 01 14.04 -0.9
INK 8.21 91 P	48 30.00 -1.3			Sg 58 36.20 -0.1	PAX 2.35 54 eP 01 16.78 0.7
0.4s 4.40nm 4.9mb X				FLN 1.89 22 Pg	SGAM 2.43 116 eP 01 15.89 -1.2
TOA 8.87 148 e(P)	48 42.50 2.0			Sg 58 56.30	XLV 2.43 206 eP 01 17.54 0.4
PMR 8.89 158 e(P)	48 42.40 1.6			Sg 58 58.90	BWN 2.54 1 eP 01 19.16 0.5
SVW 8.92 179 eP	48 40.10 -1.2			S.D. = 0.3 on 5 of 5 obs.	RAGM 2.71 115 eP 01 21.41 0.2
YKA 17.96 94 eP	50 39.50 -0.5			& APR 27, 1991 04h 00m 38.95s	DDM 2.76 37 eP 01 22.47 0.6
0.6s 1.10nm 3.2mb				61.643 N 149.613 W	GLB 2.79 92 eP 01 22.37 0.1
S.D. = 1.3 on 10 of 10 obs.				DEPTH = 34.4km	HMT 2.92 114 eP 01 24.63 0.5
* APR 27, 1991 03h 31m 58.53±0.65s				SOUTHERN ALASKA (2)	PDB 2.92 232 eP 01 23.45 -0.6
40.093 N ± 10.6km 43.719 E ± 9.4km				<AEIC>. ML 3.3 (PMR), 2.6	WRH 2.92 13 eP 01 24.38 0.2
DEPTH = 10.0km (geophysicist)				(AEIC).	SVW 2.94 262 eP 01 24.00 -0.5
4.2mb (8 obs.)				PWA 0.13 274 iPd	CCB 3.13 14 eP 01 26.12 -0.8
TURKEY-USSR BORDER REGION (367)				iS 00 45.11 0.0	CROM 3.26 103 eP 01 30.68 1.6
TAB 2.87 134 eP	32 45.00 -0.2			PLRM 0.24 102 iPc	TTA 3.26 296 eP 01 28.20 -0.8
GAZ 5.87 242 ePn	33 29.00 1.4			eS 00 45.50 -0.5	SYI 3.35 206 eP 01 29.56 -0.6
KVT 5.92 282 eP	33 42.40 13.9X			eS 00 51.09	FBA 3.37 13 eP 01 30.30 -0.2
BBTK 8.42 272 eP	34 05.00 1.4			PMR 0.24 102 iPc	MDM 3.39 10 eP 01 29.73 -1.0
i 34 40.00				iS 00 46.10 0.1	TGL 3.40 102 eP 01 30.94 -0.1
BHL 8.93 229 P	34 45.00 34.4X			iS 00 51.80	WAX 3.50 107 eP 01 31.95 -0.4
S 36 48.00				GHO 0.35 68 iPc	GLM 3.50 16 eP 01 31.63 -0.8
VR1 13.71 300 eP	35 25.00 9.8X			eS 00 46.91 -0.7	IMA 4.79 340 eP 01 49.70 -1.1
MLR 14.12 298 eP	35 29.00 8.3X			eS 00 53.19	67 obs. associated
CMP 14.67 297 ePc	35 11.00 -16.9X			PMS 0.40 176 iPc	? APR 27, 1991 04h 16m 14.26±1.45s
OBN 15.75 345 iP	35 42.60 0.8			iS 00 47.76 -0.4	42.823 N ± 8.2km 13.472 E ± 16.7km
1.6s 104.00nm 4.8mb				SUA 0.57 252 ePd	DEPTH = 10.0km (geophysicist)
Z 12s 0.70um 4.3msz				iS 00 59.31	CENTRAL ITALY (381)
N 16s 0.60um				KNK 0.60 112 iPc	AQU 0.47 186 P
E 18s 0.80um				eS 00 59.53	16 24.20 0.3
ePP 35 52.00				SML 0.63 74 ePc	eSg 16 31.50
e 35 54.00				eS 00 50.25 -1.2	16 28.50 -0.1
e 36 06.00				CUT 0.82 338 ePd	eSg 16 38.00
e 37 38.00				iS 01 04.62	16 29.50 0.1
e 39 48.00				SKT 0.97 291 iPc	eSg 16 41.30
SPC 18.96 306 eP	36 20.60 -1.6			eS 01 08.80	SDI 1.15 167 P
KRA 19.45 309 eP	36 26.00 -2.0			SCM 1.10 79 ePc	16 35.50 -0.2
SRO 19.79 301 eP	36 31.40 -0.3			eS 01 12.13	eSg 16 52.30
ZST 20.67 302 eP	36 40.70 -0.2			SLKM 1.18 195 ePc	S.D. = 0.4 on 4 of 4 obs.
QUE 21.36 110 eP	36 49.00 0.7			1.20 222 eP	* APR 27, 1991 04h 25m 30.07±3.18s
				NCG 1.24 260 iPc	51.198 N ± 24.7km 16.021 E ± 18.2km
				S 01 16.44	DEPTH = 10.0km (geophysicist)
				SPU 1.26 250 ePc	POLAND (548)
				eS 01 00.25 -0.3	KSP 0.39 154 iP
				eS 01 16.65	25 38.00 -0.2
				CRP 1.28 254 eP	iS 25 46.50
				eS 01 17.76	
				HUR 1.34 360 eP	01 01.32 -0.3

27d 04h

BRG 1.35 257 iPg 25 52.00 -0.5
 PRU 1.54 218 Pn 25 57.60 0.1
 Pg 25 59.10
 e 26 03.70
 Sn 26 16.40
 Sg 26 21.80
 CLL 1.90 275 ePg 26 03.00 0.2
 eSg 26 30.00
 KHC 2.60 218 ePn 26 13.20 0.3
 Pg 26 19.00
 eSn 26 50.50
 eSg 27 00.00
 MOX 2.84 260 ePg 26 22.00 5.7X
 iSg 27 02.00

S.D. = 0.5 on 5 of 6 obs.

APR 27, 1991 05h 06m 46.32± 0.96s
 60.661 N ±10.0km 152.486 W ± 6.2km
 DEPTH = 124.5 ± 13.1 km
 2.9mb (1 obs.)

SOUTHERN ALASKA (2)
 Felt (IV) at Nikiski.

RSO 0.24 214 iPn 07 02.70 0.2
 SLKM 1.13 97 iPn 07 10.00 -0.4
 PDB 1.22 225 iPn 07 11.40 0.1
 SVW 1.60 288 iPn 07 15.00 -0.6
 0.5s 177.69nm
 PMR 1.88 59 iPn 07 18.70 -0.2
 0.5s 148.76nm
 TTA 2.83 325 iPn 07 31.90 0.7
 KLU 3.30 72 eP 07 37.20 -0.2
 FBA 4.77 25 eP 07 57.20 0.0
 BALM 4.97 81 eP 08 01.00 0.9
 IMA 5.46 355 eP 08 06.40 -0.2
 YKA 17.95 68 eP 10 48.70 -0.4
 0.4s 0.30nm 2.9mb
 S.D. = 0.6 on 11 of 11 obs.

% APR 27, 1991 05h 18m 10.50± 2.72s
 61.383 N ± 6.9km 4.406 E ±24.4km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN NORWAY (535)
 MD 1.6 (BER).

SUE 0.37 152 iP 18 18.40 0.3
 iS 18 25.00
 FOO 0.37 54 eP 18 18.73 0.6
 eS 18 24.24
 FRO 0.44 31 eP 18 19.18 -0.3
 eS 18 24.88
 HYA 0.89 103 iP 18 27.00 -0.5
 eS 18 40.30
 ASK 0.98 157 eP 18 29.00 -0.1
 eS 18 43.00

S.D. = 0.6 on 5 of 5 obs.

% APR 27, 1991 05h 41m 55.10± 4.19s
 44.454 N ±16.6km 6.643 E ±30.1km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)

PZZ 0.33 81 P 42 02.01 0.0
 S 42 06.45
 RRL 0.48 12 P 42 04.81 0.0
 S 42 10.97
 STV 0.53 113 P 42 05.71 -0.2
 S 42 12.37
 ENR 0.60 112 P 42 07.45 0.1
 S 42 15.04
 ROB 0.89 100 P 42 12.17 -0.1

S.D. = 0.2 on 5 of 5 obs.

APR 27, 1991 05h 42m 41.70± 0.19s
 10.256 N ± 3.9km 83.243 W ± 2.7km
 DEPTH = 10.0km (geophysicist)
 5.3mb (64 obs.) 4.8msz (10 obs.)
 COSTA RICA (78)
 MD 5.2 (SJR). Felt in the
 Atlantic region of Costa Rica
 and in Bocas del Toro Province,
 Panama.
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 11S, 21C

Centroid Location:
 Origin Time 05:42:47.4 1.9
 Lot 10.43N 0.14 Lon 83.63W 0.10
 Dep 15.0 FIX Half-duration 1.8
 Moment Tensor; Scale 10**16 Nm
 Mrr= 8.60 0.80 Mtt=-6.73 0.72
 Mff=-1.87 1.25 Mrt=-2.03 3.12
 Mrf= 0.87 2.78 Mtf= 7.80 0.66

Principal Axes:
 T Val= 8.87 Plg=82 Azm=172
 N 3.82 6 306
 P -12.69 6 36
 Best Double Couple:Mo=1.1*10**17
 NP1:Strike=133 Dip=40 Slip= 99
 NP2: 301 51 83

UPA 3.87 109 ePd 43 42.20 -0.4
 (S) 44 22.00
 GCM 9.16 11 eP 44 57.55 0.7
 SPJ 9.46 35 eP 45 12.00 10.8X
 TPX 9.94 299 (P) 45 08.70 1.0
 STH 9.96 38 eP 45 08.50 0.4
 YHJ 10.02 40 eP 45 09.00 0.2
 BMG 10.54 107 P 45 18.00 2.0
 BOG 10.68 121 eP 45 25.00 6.8X
 eS 47 46.00
 PSO 10.76 146 eP 45 20.50 1.2
 SDV 12.51 95 eP 45 39.50 -3.4X
 iS 47 56.10
 TOV 13.26 91 eP 45 54.10 1.4
 eS 48 13.10
 MORO 14.69 86 eP 46 17.30 5.7X
 OXX 14.75 299 (P) 46 12.20 -0.3
 LVVM 15.85 308 (P) 46 27.11 0.5
 OLLA 16.19 89 iP 46 34.60 3.5X
 IISM 16.19 304 (P) 46 30.90 0.0
 IIT 16.97 303 (P) 46 42.78 1.6
 PPM 17.26 302 (P) 46 46.23 1.2
 IIA 17.32 302 (P) 46 46.36 1.1
 ACX 17.43 294 (P) 46 48.10 1.4
 MGP 17.45 62 (P) 46 50.00 3.1X
 ILL 17.66 299 (P) 46 50.97 1.2
 LRS 17.78 61 P 46 52.50 1.5
 CRX 18.29 302 (P) 47 00.00 2.2
 SJG 18.31 63 eP 46 59.00 1.4
 CPD 18.49 63 P 47 01.00 1.2
 LPR 18.63 63 P 47 03.50 1.9
 MRX 19.70 301 iPc 47 15.42 1.1
 PAG 21.76 72 eP 47 37.00 1.3
 eTT 08 00.00
 BPA 21.84 70 eP 47 41.47 5.1X
 BBL 21.85 74 eP 47 36.00 -0.5
 MDN 21.88 74 eP 47 42.19 5.4X
 DBCT 21.92 75 eP 47 42.11 4.9X
 SEG 22.01 72 eP 47 40.00 2.0
 CPB 22.03 68 eP 47 42.34 4.1X
 DEG 22.40 72 eP 47 41.00 -1.1
 NNA 23.00 164 iPd 47 48.90 1.0
 1.1s 63.29nm 5.1mb
 BLA 26.96 5 P 48 26.50 1.2
 1.3s 64.81nm 5.2mb
 TUL 27.97 338 eP 48 33.10 -1.4
 1.2s 103.00nm 5.5mb
 MEO 28.15 333 iPc 48 35.20 -1.0
 CBN 28.32 10 eP 48 40.00 2.3
 FVM 28.35 348 P 48 38.10 0.1
 1.5s 121.95nm 5.5mb
 ARE 28.98 156 eP 48 45.00 0.9
 ZOBO 30.31 150 P 48 55.90 -0.4
 1.1s 15.95nm 4.8mb
 Z 24s 1.94um 4.7mszX
 S 53 56.00
 LR 59 32.00
 CLE 31.14 2 iP 49 03.80 1.0
 PNJ 31.57 13 iP 49 08.90 2.4
 ALO 32.44 323 ePc 49 14.00 -0.5
 1.1s 53.16nm 5.4mb
 Z 20s 0.64um 4.3msz
 ePP 50 29.00
 ANMO 32.44 323 P 49 14.70 0.2
 1.1s 56.96nm 5.4mb
 SIV 34.09 140 P 49 27.00 -1.8
 GLD 35.28 330 P 49 39.50 0.5
 1.1s 192.86nm 5.9mb
 GOL 35.32 330 P 49 39.20 -0.2
 1.0s 41.25nm 5.3mb
 GLA 36.85 313 P 49 52.40 0.2

BAR 38.02 311 eP 50 08.00 6.0X
 MSU 38.24 322 P 50 04.20 0.2
 TPC 38.27 313 eP 50 04.00 -0.1
 PLM 38.48 312 eP 50 06.00 0.0
 DAU 38.95 325 P 50 10.50 0.5
 GSC 39.41 315 eP 50 14.00 0.3
 DUG 39.70 324 P 50 16.40 0.4
 1.1s 26.32nm 4.8mb
 BW06 39.71 329 P 50 15.60 -0.6
 SBB 39.83 313 eP 50 18.00 0.9
 CLC 40.23 315 eP 50 20.00 -0.4
 ISA 40.77 314 eP 50 25.00 0.2
 TNP 41.17 318 P 50 28.30 0.0
 0.9s 26.69nm 5.0mb
 PTI 41.24 327 P 50 29.20 0.5
 BONR 41.82 317 P 50 34.50 0.8
 KVN 42.28 319 P 50 38.10 0.8
 FRI 42.29 315 eP 50 36.20 -1.0
 LLA 42.98 314 eP 50 43.20 0.3
 CMB 43.28 316 eP 50 45.30 0.0
 LRM 43.35 330 ePc 50 46.00 0.0
 BAO 43.36 126 ePd 50 45.80 -0.5
 MHC 43.81 314 eP 50 49.50 -0.3
 ORV 44.79 317 iPd 50 57.90 0.4
 PPD 44.84 136 eP 50 56.60 -1.5
 e 51 01.40
 MDZ 45.04 163 e(P) 51 00.60 1.0
 MIN 45.26 318 eP 51 00.30 -1.1
 LBFM 45.96 319 P 51 06.50 -0.5
 SES 46.12 336 eP 51 07.00 -0.9
 1.7s 291.00nm 6.0mb
 SCH 46.32 13 eP 51 09.00 -0.5
 FFC 46.78 345 iPc 51 12.60 -0.4
 1.2s 98.00nm 5.8mb
 NEW 47.34 330 P 51 16.40 -1.2
 1.0s 46.88nm 5.5mb
 VAO 48.52 133 eP 51 25.60 -1.5
 e 51 30.40
 e 51 37.50
 LON 48.88 325 P 51 29.10 -0.6
 EDM 49.21 337 iPc 51 31.00 -1.0
 PNT 49.28 329 ePc 51 32.00 -0.6
 1.2s 186.00nm 6.0mb
 PDCR 49.32 116 eP 51 31.70 -1.7
 e 51 36.60
 GMW 49.89 326 P 51 35.70 -1.6
 MCW 50.57 327 P 51 41.60 -0.9
 FRB 54.42 8 ePc 52 08.90 -2.1
 YKA 56.85 343 eP 52 25.60 -3.0X
 0.8s 25.20nm 5.3mb
 GDH 61.97 12 eP 53 05.00 1.1
 INK 66.54 342 ePc 53 32.50 -1.1
 1.2s 110.00nm 5.9mb
 pP 54 20.50 205kmX
 KLU 68.16 333 P 53 43.40 -0.7
 RUV 68.38 249 iP 53 47.00 0.9
 1.2s 85.00nm 5.8mb
 TOA 68.48 333 eP 53 46.00 -0.1
 TPT 68.54 249 iP 53 47.70 0.7
 1.2s 60.00nm 5.7mb
 VAH 68.62 249 iP 53 48.40 0.8
 1.2s 45.00nm 5.5mb
 PMO 68.80 250 iP 53 49.60 0.9
 1.2s 80.00nm 5.8mb
 PMR 69.66 332 ePc 53 52.30 -0.8
 1.2s 45.20nm 5.5mb
 FBA 70.10 336 iPc 53 55.10 -0.7
 1.0s 46.25nm 5.6mb
 PPN 70.96 247 eP 54 02.00 0.1
 1.2s 60.00nm 5.6mb
 PAE 71.14 247 eP 54 03.00 0.1
 1.2s 70.00nm 5.7mb
 PDB 71.63 330 P 54 03.10 -2.1
 EZAM 71.74 49 eP 54 06.00 -0.3
 STS 71.88 48 eP 54 04.00 -3.1X
 SVW 72.58 331 iPc 54 09.40 -1.5
 AVE 72.64 58 iPc 54 18.20 6.5X
 IMA 72.79 336 ePc 54 11.40 -0.7
 1.3s 41.60nm 5.4mb
 TTA 73.10 333 eP 54 12.60 -1.4
 1.0s 35.00nm 5.4mb
 EPLA 73.67 51 eP 54 27.00 9.4X
 EJIF 74.18 55 eP 54 22.00 1.4
 EHOR 74.33 54 eP 54 22.00 0.5
 DAG 74.35 12 iPd 54 19.50 -1.4
 0.8s 21.64nm 5.2mb
 IFR 74.54 58 iP 54 24.00 1.0

27d 05h

MAL	75.02	55	iPc	54	29.50	1.5	Z	20s	0.30um	4.7Msz	1.0s	25.00nm	4.5mb
			iS	04	08.00				epPd	55	24.90	16kmX	3.8Msz
BRW	75.07	341	ePc	54	24.60	-0.5	MOX	85.22	40	eP	55	19.50	-0.2
GUD	75.14	51	iPd	54	27.00	0.7		1.6s	46.00nm	5.4mb			
TOL	75.23	51	iPd	54	27.50	0.8	CLL	85.96	39	iPc	55	23.70	0.3
EBAN	75.48	53	eP	54	28.50	0.4		1.6s	55.00nm	5.5mb			
ECOG	75.68	54	eP	54	31.00	1.6	UPP	86.62	30	iP	55	25.25	-1.1
AFC	75.70	54	eP	54	30.30	0.7			ipP	55	29.40	18kmX	
EKA	75.99	35	Pd	54	30.10	-0.6	BRG	86.63	39	iPc	55	26.50	-0.2
	1.2s	26.60nm	5.2mb					1.4s	36.00nm	5.4mb			
LKO	76.31	83	P	54	33.04	-0.2			i	55	32.00		
	1.0s	40.00nm	5.5mb						e	55	46.60		
LPF	77.25	43	eP	54	37.30	-0.5	KHC	86.76	41	Pc	55	27.50	0.1
	1.1s	39.05nm	5.4mb					1.3s	18.00nm	5.1mb			
TIC	77.30	85	P	54	38.62	-0.1	Z	22s	0.50um	4.9Msz			
LIC	77.36	86	P	54	38.96	-0.1	E	22s	0.40um				
Z	20s	0.20um	4.4Msz				PRU	87.19	40	eP	55	29.00	-0.4
GRR	77.36	43	eP	54	38.10	-0.3		1.2s	13.20nm	5.1mb			
	0.9s	39.30nm	5.5mb				Z	20s	0.50um	4.9Msz			
FLN	77.60	42	eP	54	39.70	0.0	E	19s	0.30um				
	1.1s	36.65nm	5.4mb						e	55	35.50		
Z	21s	0.73um	5.0Msz				KEV	87.29	19	iP	55	29.00	-0.6
KIC	77.62	86	P	54	40.40	-0.1			i	55	35.00		
	1.0s	25.50nm	5.3mb				SOD	88.07	21	iP	55	32.30	-1.0
LDF	77.85	42	eP	54	40.80	-0.3	KSP	88.09	39	eP	55	33.50	-0.2
	0.9s	34.40nm	5.4mb				ZST	89.24	41	i(P)	55	39.60	0.3
MFF	77.90	44	eP	54	41.30	-0.1	NUR	89.77	28	eP	55	40.10	-1.4
EPF	78.41	48	eP	54	44.80	0.4	KAF	89.93	26	eP	55	40.60	-1.6
	1.0s	30.00nm	5.3mb					0.9s	13.30nm	5.2mb			
LFF	78.59	46	eP	54	45.40	0.1			esP	55	41.80		
	0.8s	20.15nm	5.2mb				SRO	90.13	41	eP	55	43.10	-0.3
LPO	78.92	46	eP	54	46.80	-0.3			i	55	49.10		
	0.9s	27.85nm	5.3mb				SPC	90.98	40	eP	55	47.30	-0.3
LSF	79.07	45	eP	54	47.30	-0.6	CMP	95.32	42	ePc	56	05.00	-2.5
	1.1s	19.55nm	5.0mb				MLR	95.84	42	eP	56	10.00	0.0
RJF	79.12	46	eP	54	47.90	-0.3	TIY	130.07	344	ePKP	01	55.20	1.2
	1.1s	24.40nm	5.1mb				Z	20s	0.38um	5.1Msz			
Z	20s	0.32um	4.7Msz				N	15s	0.30um				
CAF	79.53	46	eP	54	50.20	-0.3	GTA	130.51	357	PKP	01	53.80	-1.1
	1.2s	38.70nm	5.3mb				LZH	133.43	352	e(PKP)	01	41.00	-19.6X
TCF	79.54	45	eP	54	49.90	-0.6		2.0s	21.00nm				
	0.8s	9.40nm	4.8mb				Z	16s	0.24um	5.0MszX			
MAF	79.79	45	eP	54	51.20	-0.6	ASPA	142.18	245	iPKPd	02	10.70	-6.2X
	1.3s	39.70nm	5.2mb					1.2s	12.20nm				
BGF	79.96	44	eP	54	51.90	-0.8	GYA	142.26	345	PKP	02	13.00	-4.1X
	1.0s	32.00nm	5.2mb					N	15s	0.20um			
AVF	80.29	44	eP	54	53.40	-1.0		E	15s	0.40um			
	1.1s	20.75nm	5.0mb				POO	143.54	38	iPKPc	02	07.50	-11.9X
SSF	80.37	44	eP	54	53.80	-1.1	KMI	144.36	351	PKPd	02	17.50	-3.4X
	0.9s	15.55nm	5.0mb						pPKP	02	24.00		
LOR	80.59	44	eP	54	55.60	-0.5	HYB	147.14	33	iPKPc	02	25.40	0.0
	0.9s	14.75nm	5.0mb					1.2s	107.10nm				
Z	19s	0.55um	4.9Msz				QIZ	148.17	336	ePKP	02	29.00	2.1
SMF	80.64	44	eP	54	55.30	-1.0	GBA	149.51	39	PKPd	02	28.10	-1.0
	1.3s	30.70nm	5.2mb					0.8s	18.10nm				
LBF	80.70	44	eP	54	55.90	-0.8	CHG	151.03	356	ePKP	02	35.30	3.9X
	1.1s	12.20nm	4.8mb				MUN	151.88	217	ePKP	02	38.40	6.1X
DOU	80.84	41	P	54	58.80	1.6	KOD	152.03	44	ePKP	02	39.40	6.1X
WTS	82.04	39	eP	55	03.50	0.1	LOE	152.08	350	ePKP	02	37.50	4.6X
	1.0s	43.00nm	5.5mb										
HAU	82.20	43	eP	55	03.80	-0.6							
	0.9s	9.85nm	4.9mb										
Z	22s	0.73um	5.0Msz										
BSF	82.51	43	eP	55	05.40	-0.8							
	1.2s	26.80nm	5.3mb										
CDF	82.76	42	eP	55	06.80	-0.7							
	1.1s	14.65nm	5.1mb										
NB2	83.26	29	P	55	09.50	-0.2							
	1.2s	28.20nm	5.3mb										
SLE	83.66	43	ePd	55	12.00	0.0							
ADK	84.13	322	iPc	55	14.30	0.1							
	1.0s	121.00nm	6.1mb										
		e	55	21.50									
VDL	84.51	44	ePd	55	17.10	0.6							
HFS	84.63	30	eP	55	14.80	-1.7							
	1.2s	28.80nm	5.4mb										
Z	17s	0.28um	4.7MszX										
		e	55	20.30									
		e	55	21.60									
		e	55	25.50									
		e	55	34.10									
		LR	22	50.00									
OSS	84.94	44	ePd	55	19.20	0.6							
GRF	85.14	41	ePc	55	19.70	0.3							
	1.5s	47.00nm	5.5mb										

27d 08h

1.1s 3.60nm 4.3mb
 INK 67.20 342 eP 36 36.00 0.5
 LKO 75.72 83 P 37 27.32 -0.2
 KIC 77.00 86 P 37 34.20 -0.5
 S.D. = 1.5 on 11 of 13 obs.

? APR 27, 1991 08h 57m 18.42± 7.75s
 39.242 N ± 49.9km 27.645 E ± 28.6km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.6 (ISK).

DST 0.84 64 ePn 57 34.90 0.2
 EDC 1.12 9 ePn 57 40.00 0.7
 BNT 1.13 11 ePn 57 40.00 0.4
 KCT 1.15 28 ePn 57 39.00 -0.9
 KGT 1.24 348 ePn 57 41.00 -0.4
 S.D. = 0.9 on 5 of 5 obs.

? APR 27, 1991 09h 07m 40.63± 0.80s
 39.082 N ± 6.6km 27.567 E ± 8.4km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.7 (ISK).

IZM 0.72 199 ePg 07 55.00 0.1
 eSg 08 06.50
 DST 0.97 57 ePn 07 58.90 -0.3
 EZN 1.22 308 ePn 08 03.00 -0.2
 EDC 1.28 10 ePn 08 04.50 0.1
 BNT 1.30 12 ePn 08 05.00 0.3
 KCT 1.32 27 ePn 08 05.00 0.1
 S.D. = 0.3 on 6 of 6 obs.

? APR 27, 1991 09h 14m 29.80± 4.34s
 39.472 N ± 29.6km 29.635 E ± 19.9km
 DEPTH = 5.0km (geophysicist)

TURKEY (366)

MD 2.8 (ISK).

DST 0.79 280 ePg 14 44.90 -0.8
 eSg 14 56.40
 IZI 0.87 352 iPn 14 46.60 -0.5
 YLV 1.11 350 iPn 14 50.90 -0.3
 EYL 1.16 20 ePn 14 52.30 0.2
 KCT 1.25 309 ePn 14 54.00 0.4
 GBZT 1.32 354 ePg 14 50.30 -4.4X
 iSg 14 51.70
 HRT 1.35 1 iPn 14 52.00 -3.2X
 BNT 1.59 304 ePn 14 59.50 0.9
 KGT 2.04 299 ePn 14 53.50 -11.7X
 S.D. = 0.8 on 6 of 9 obs.

APR 27, 1991 09h 51m 11.94± 0.13s
 36.461 N ± 3.5km 70.555 E ± 2.5km
 DEPTH = 208.9km (15 depth phases)
 4.9mb (66 obs.)

HINDU KUSH REGION (718)

Felt (III) at Kabul,

Afghanistan.

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 15S, 25C

Centroid Location:

Origin Time 09:51: 9.2 1.4

Lat 35.93N 0.10 Lon 69.94E 0.13

Dep 221.9 5.9 Half-duration 1.5

Moment Tensor: Scale 10¹⁶ Nm

Mrr= 4.02 0.44 Mtt=-5.30 0.61

Mff= 1.28 0.71 Mrt=-1.64 0.57

Mrf=-0.46 0.73 Mtf= 0.96 0.69

Principal Axes:

T Vol= 4.42 Plg=74 Azm=134

N 1.27 12 275

P -5.69 10 7

Best Double Couple: Mo=5.1*10¹⁶ Nm

NP1: Strike=112 Dip=37 Slip= 111

NP2: 267 56 75

KSH 5.23 53 P 52 30.50 0.3
 S 53 30.50
 NDI 9.57 142 iPd 53 25.00 -1.4
 0.6s 313.33nm 5.8mb
 eS 55 00.00
 GKN 14.59 121 P 54 28.24 -1.8
 WMO 15.01 55 P 54 33.70 -1.4
 1.0s 300.00nm 5.7mb

SP 55 28.00
 S 57 16.00
 DMN 15.16 121 P 54 36.10 -1.0
 KKN 15.16 121 P 54 35.60 -1.6
 PKI 15.39 121 P 54 38.86 -1.2
 GUN 15.51 119 P 54 39.62 -1.9
 BOM 17.61 173 iPd 55 06.30 0.8
 eS 58 14.50
 POD 18.09 170 iPd 55 10.60 -0.1
 1.0s 160.00nm 5.4mb
 iSn 58 38.00
 LSA 18.51 105 iPc 55 16.80 1.4
 PP 55 20.00
 TAB 19.34 282 eP 55 26.00 2.4
 BBU 19.94 245 iP 55 30.10 0.7
 0.5s 318.00nm 6.1mb X
 DHR 20.12 246 iPc 55 32.50 1.3
 HYB 20.25 157 iPc 55 33.50 0.8
 0.8s 246.10nm 5.8mb
 iS 59 08.50
 GTA 23.22 74 iPc 56 03.00 1.4
 1.0s 170.00nm 5.6mb
 E 11s 1.30um
 PP 56 43.00
 SP 57 09.40
 GBA 23.58 163 Pc 56 06.10 1.1
 0.9s 83.00nm 5.3mb
 RYD 23.64 247 iPc 56 07.50 1.9
 LZH 26.77 81 iPc 56 34.50 0.1
 Z 14s 1.06um 4.5msz X
 PP 57 23.50
 KOD 26.85 165 eP 56 37.00 1.6
 KMSA 27.85 242 iPc 56 44.30 0.2
 CD2 28.09 92 Pc 56 46.40 0.2
 1.0s 100.00nm 5.5mb
 IRK 28.52 46 eP 56 50.00 0.2
 e 57 33.50 217km
 e 57 55.50
 OBN 29.71 320 iP 57 00.30 0.1
 0.6s 192.00nm 6.0mb X
 iPP 57 40.00 194kmX
 e 57 53.00
 eS 58 00.00
 e 58 38.00
 i 59 04.00
 ePcP 59 46.00
 iS 01 42.00
 e 02 40.00
 iSS 03 12.00
 DHJN 30.36 239 ePc 57 08.07 1.5
 ABHA 30.48 241 iPc 57 10.93 3.3X
 CHG 30.52 118 eP 57 07.80 0.1
 1.2s 33.20nm 4.9mb
 BTO 30.97 70 P 57 12.00 0.5
 XAN 31.29 83 iPc 57 14.00 -0.3
 BDT 31.60 120 eP 57 17.80 0.7
 HHC 32.11 69 P 57 22.00 0.5
 Z 20s 1.30um 4.6msz
 N 12s 0.40um
 E 12s 0.40um
 GYA 32.21 98 iPc 57 22.80 0.3
 1.0s 100.00nm 5.4mb
 PcP 00 05.40
 S 02 22.80
 PcS 03 50.00
 ScS 07 25.60
 ELL 32.46 283 iP 57 25.10 0.6
 KHL 32.47 286 eP 57 24.00 -0.5
 KHT 33.03 123 iPc 57 30.70 1.2
 TIY 33.23 75 Pc 57 31.50 0.4
 S 02 38.00
 SS 03 50.00
 LOE 33.44 116 iPc 57 32.80 -0.2
 NST 33.47 120 eP 57 34.50 1.3
 VRI 33.94 300 ePc 57 38.50 1.5
 MLR 34.49 299 iPc 57 43.00 1.2
 e 14 28.00
 CMP 35.13 299 ePc 57 49.00 1.9
 BJI 35.71 70 eP 57 52.50 0.6
 1.0s 16.00nm 4.6mb
 PP 59 20.00
 WHN 36.75 86 Pd 58 01.80 1.0
 1.5s 100.00nm 5.2mb
 TIA 37.23 76 eP 58 05.20 0.4
 KAF 37.47 327 iP 58 06.90 0.5
 0.5s 37.30nm 5.3mb
 eSP 58 07.50

NUR 37.65 324 iP 58 08.40 0.4
 0.6s 143.40nm 5.8mb
 SPC 38.34 306 eP 58 14.60 0.4
 i 58 58.10 206km
 OIZ 38.55 106 eP 58 16.00 0.0
 PSZ 38.60 303 eP 58 17.00 0.9
 GZH 39.15 98 Pc 58 21.80 1.0
 BUD 39.20 303 eP 58 22.00 1.0
 SOD 39.62 335 iP 58 25.00 0.8
 SRO 39.66 303 iP 58 26.70 1.9
 i 58 47.70 88kmX
 i 59 05.40
 i 59 09.50
 NJ2 39.84 82 Pc 58 26.80 0.4
 SNG 40.02 129 eP 58 38.50 10.5X
 ZST 40.45 304 eP 58 31.70 0.5
 e 59 15.70 206km
 KEV 40.71 338 iP 58 33.80 0.8
 0.7s 44.00nm 5.1mb
 KSP 40.88 308 eP 58 35.50 0.8
 ic 59 19.00 203km
 UPP 40.88 322 iP 58 34.40 -0.2
 i 59 20.30 216km
 i 59 41.40
 SNY 40.93 66 eP 58 34.60 -0.6
 0.6s 20.00nm 4.8mb
 Z 18s 0.60um 4.5msz
 E 11s 0.30um
 PcP 00 31.00
 KTK1 41.51 336 iPc 58 40.04 0.4
 CN2 41.94 62 eP 58 42.00 -1.5
 Z 12s 1.30um 5.0msz X
 N 11s 0.20um
 E 11s 0.50um
 VBY 41.98 300 e(P) 58 45.00 1.2
 PRU 42.03 307 Pc 58 45.00 0.9
 1.2s 16.50nm 4.4mb
 e 59 24.50 182kmX
 e 59 29.20
 SSE 42.03 82 Pc 58 45.50 1.1
 0.8s 27.00nm 4.8mb
 PP 59 31.70
 IPM 42.31 131 ePc 58 47.70 1.0
 BRG 42.36 308 iP 58 47.40 0.6
 1.1s 42.00nm 4.9mb
 i 59 26.50 179kmX
 i 59 31.00
 LJU 42.41 301 eP 58 48.00 0.8
 PSI 42.59 135 ePd 58 51.50 2.5
 KHC 42.72 306 P 58 50.30 0.5
 e 59 35.00 209km
 VOY 42.85 301 e(P) 58 51.30 0.3
 HFS 42.88 322 iPc 58 50.70 -0.1
 0.5s 157.20nm 5.8mb
 Z 17s 0.12um 3.9msz X
 e 59 05.20 56kmX
 e 59 36.60
 e 59 59.30
 LR 17 14.00
 CLL 42.94 309 ePc 58 51.00 -0.4
 1.5s 27.00nm 4.5mb
 iPP 59 35.70 208km
 KBA 43.09 303 eP 58 50.50 -2.5
 1.4s 41.70nm 4.7mb
 i 59 30.30 183kmX
 i 59 35.40
 TRO 43.16 336 eP 58 53.32 0.3
 FVI 43.54 302 P 58 56.50 0.2
 MOX 43.86 308 eP 59 00.00 1.1
 1.2s 21.00nm 4.5mb
 e 59 44.00 204km
 GRF 44.20 307 ePc 59 03.10 1.5
 1.0s 19.00nm 4.5mb
 e 59 42.10 178kmX
 ic 59 47.60
 NB2 44.20 323 P 59 00.80 -0.7
 YAK 44.22 35 iPc+ 59 00.90 -0.7
 iPP 59 43.00 194kmX
 iPP 00 09.00
 iPP 00 41.00
 ePPP 01 57.00
 iS 05 19.00
 e 06 39.00
 NSS 44.34 328 iPd 59 02.29 -0.2
 CTI 44.39 302 P 59 04.00 0.7
 LOF 44.52 333 iPd 59 03.49 -0.3
 OGA 44.69 303 iPd 59 05.60 -0.2

	44.73	60	eP	59	05.90	0.0				iP	01	07.90	210km	S.D. = 0.9 on 4 of 4 obs.
			PcP	00	43.00		OFUJ	54.93	64	eP	00	22.00	-1.2	
RGS	44.79	326	eP	59	06.00	0.0	TOL	57.14	298	eP	00	38.50	-0.4	APR 27, 1991 10h 04m 56.50± 0.28s
OSS	45.32	303	iPd	59	10.70	0.0	AAI	66.87	114	eP	01	42.00	-1.6	29.703 N ± 6.0km 94.755 E ± 3.4km
MME	45.39	299	P	59	12.50	1.1	GDH	66.93	341	iPc	01	49.80	6.5X	DEPTH = 33.0km (normol)
KGM	45.72	131	ePd	59	15.10	1.2		1.1s	75.95nm			5.3mb		4.4mb (10 obs.)
VDL	45.81	302	ePd	59	14.40	-0.2				i	02	37.00	201km	INDIA-CHINA BORDER REGION (313)
LLS	46.06	303	ePd	59	16.20	-0.4	BRW	67.43	15	iPc	01	47.10	0.7	
MOL	46.06	325	iPd	59	16.54	0.4	BUL	68.85	222	iPd	01	55.80	-0.1	LSA 3.14 271 Pg 05 51.00 5.8X
HYA	46.64	323	eP	59	21.00	0.3				i	02	45.50	211km	Sg 06 38.40
WTS	46.72	310	eP	59	21.50	0.1	ANM	70.21	22	ePc	02	40.70	1.3	CD2 7.88 79 eP 06 52.00 0.3
	1.0s	25.00nm			4.6mb		IMA	72.27	17	iPc	02	15.90	0.1	Z 10s 2.00um
PCP	46.83	300	P	59	21.64	-0.9		1.2s	71.20nm			5.3mb		eS 08 13.00
CDF	46.94	305	eP	59	22.30	-1.1			e	03	04.80	206km	GUN 7.99 259 P 06 54.00 0.5	
	0.9s	8.20nm			4.1mb		NANU	72.45	137	eP	02	27.00	9.8X	KMI 8.43 121 Pgc 07 27.50 27.9
ASK	47.12	322	eP	59	24.50	0.1	LKO	73.27	270	P	02	20.54	-1.8	Sg 08 45.00
DIX	47.29	302	ePd	59	26.40	0.1		0.5s	19.50nm			5.1mb		PKI 8.48 258 P 07 00.20 -0.2
SUE	47.33	323	eP	59	26.00	0.0	SLR	73.59	219	iPd	02	25.00	1.0	KKN 8.53 259 P 07 01.40 0.5
BSF	47.36	305	eP	59	25.70	-0.9		1.5s	55.56nm			5.1mb		DMN 8.73 259 P 07 04.20 0.5
	0.8s	24.20nm			4.7mb		MBL	73.82	133	eP	02	24.50	-0.7	GKN 9.03 262 P 07 07.40 -0.4
MEM	47.41	309	iPc	59	26.90	0.2	INK	74.00	9	iPc	02	26.00	0.4	LZH 9.94 48 eP 07 16.00 -4.3X
		e		59	42.50	60kmX		0.5s	33.00nm			5.3mb		1.0s 30.00nm 5.5mb X
RSP	47.59	301	P	59	26.05	-2.4			pP	03	17.00	215km	E 12s 0.26um	
LSD	47.59	302	P	59	28.61	0.0	TTA	74.18	20	eP	02	27.90	1.0	GYA 11.00 104 P 07 34.00 -0.8
EMS	47.62	302	iPd	59	28.60	-0.1		1.0s	46.25nm			5.2mb		CHG 11.49 160 eP 07 41.00 -0.4
HAU	47.63	305	eP	59	27.90	-0.6	KIC	74.43	266	P	02	27.82	-1.1	TIY 16.72 57 eP 08 50.00 0.1
	0.8s	10.75nm			4.3mb			0.5s	30.50nm			5.3mb		Z 14s 1.19um
Z	22s	0.05um			3.4MsZ		TIC	74.48	267	P	02	27.94	-1.4	E 12s 0.56um
								0.5s	19.00nm			5.1mb		WHN 16.98 82 ePd 08 52.00 -1.0
ENR	47.69	300	P	59	28.61	-0.5	FBA	74.60	16	iPc	02	29.80	0.6	1.5s 40.00nm 4.3mb
STV	47.75	300	P	59	28.82	-0.8		1.1s	160.94nm			5.7mb		N 10s 1.00um
PZZ	47.85	300	P	59	27.38	-3.1X	LIC	74.74	266	P	02	29.48	-1.2	QIZ 17.35 124 eP 08 59.50 1.7
LPG	47.86	302	eP	59	30.30	-0.4	FRB	74.99	342	ePc	02	30.80	-0.6	E 11s 0.30um
	0.8s	16.10nm			4.5mb		KNA	75.56	122	eP	02	34.50	-0.7	HHC 17.63 46 eP 08 56.40 -4.9X
LPL	47.87	302	eP	59	30.50	-0.2	SVW	75.75	21	eP	02	37.10	1.3	HYB 19.21 234 eP 09 20.50 -0.1
	0.5s	9.50nm			4.5mb		PMR	77.12	18	ePc	02	43.30	0.1	BJI 20.33 54 eP 09 33.50 1.0
RSL	47.91	302	P	59	30.68	-0.2	PDB	77.24	21	P	02	44.60	0.7	1.0s 11.00nm 4.2mb
RRR	47.97	301	P	59	30.87	-0.6	MEKA	77.32	137	eP	03	36.40	216km	GBA 22.66 229 P 10 05.00 8.9X
DOU	48.38	308	Pc	59	35.30	1.0	TOA	77.39	17	ePc	02	44.00	-0.8	0.8s 4.60nm 4.0mb
FRF	48.39	299	eP	59	33.60	-0.9	KLU	77.99	17	P	02	46.40	1.6	QUE 24.08 278 eP 10 09.50 -0.6
	0.8s	21.50nm			4.6mb		YKA	81.30	2	eP	03	48.90	0.8	CN2 28.15 52 eP 10 48.00 0.4
SNF	48.51	309	Pc	59	35.20	0.0	SCH	81.30	22.70nm			5.0mb		HFS 60.37 325 eP 15 04.10 -0.3
KBS	48.57	347	eP	59	36.00	0.6	COOL	81.99	337	eP	03	10.00	0.7	0.4s 1.50nm 4.5mb
LBF	49.41	304	eP	59	40.80	-1.4	RGK	82.08	138	eP	03	09.40	-0.7	epP 15 07.50 11kmX
	0.6s	4.05nm			4.1mb		LAT	82.47	143	eP	03	13.00	1.1	esP 15 09.70
LOR	49.42	305	eP	59	40.80	-1.5	ASPA	83.13	103	iPc	03	16.04	0.3	15 06.00 0.2
SSB	49.43	302	P	59	42.21	-0.2	FORR	84.52	125	iPc	03	21.70	-0.9	15 10.70 -1.0
SSF	49.71	304	eP	59	43.20	-1.2	QIS	85.98	133	eP	03	29.00	-0.5	1.0s 4.40nm 4.5mb
	1.1s	13.45nm			4.3mb		FFC	86.36	119	eP	03	30.00	-1.6	GRF 63.99 314 eP 15 29.00 0.2
AVF	49.87	304	eP	59	44.70	-1.0	EDM	88.95	356	ePc	03	43.80	0.2	ASPA 65.05 140 iPd 15 35.30 -0.6
	0.8s	26.20nm			4.8mb		CTA	90.62	2	ePc	03	52.00	0.6	1.0s 6.50nm 4.7mb
BGF	50.26	304	eP	59	47.50	-1.2	SES	90.85	114	iPc	03	52.00	-0.8	CDF 66.85 314 eP 15 47.30 0.0
	1.0s	16.00nm			4.5mb		PNT	93.51	1	eP	04	05.00	0.2	1.2s 5.95nm 4.6mb
MAF	50.54	304	eP	59	50.10	-0.7	STK	94.12	7	eP	04	08.00	0.4	SBF 68.29 309 eP 16 10.20 13.8X
	0.9s	19.65nm			4.6mb		NEW	95.06	126	eP	04	10.40	-1.5	0.7s 15.45nm
TCF	50.76	304	eP	59	51.70	-0.8		1.0s	43.00nm			5.4mb		LOR 69.41 313 eP 16 01.60 -1.6
CAF	51.21	302	eP	59	55.40	-0.6	GMW	95.37	5	P	04	14.40	1.0	SSF 69.71 313 eP 16 04.90 -0.1
	0.7s	8.80nm			4.4mb		SXM	95.52	9	P	04	15.40	1.3	1.2s 14.90nm 4.9mb
LSF	51.22	304	eP	59	54.70	-1.3	SIV	97.75	1	eP	04	25.30	0.9	AVF 69.91 313 eP 16 07.00 0.8
	0.6s	8.10nm			4.4mb		ZOB	132.61	282	PKP	10	02.00	-1.6	TCF 70.83 313 eP 16 13.60 1.7
RJF	51.48	303	eP	59	57.30	-0.6	LPB	138.27	288	PKP	10	15.00	0.0	STK 75.69 140 eP 16 40.10 -0.2
	1.1s	22.00nm			4.6mb		ARE	138.40	287	PKP	10	04.00	-11.0X	1.0s 1.40nm 3.9mb
LDF	51.72	307	eP	59	58.60	-1.0	PCH	140.95	290	ePKP	10	20.00	0.5	INK 75.97 17 eP 16 41.00 -0.5
	0.8s	9.40nm			4.4mb		LNV	148.14	263	ePKP	10	34.00	3.2X	YKA 85.15 13 eP 17 30.00 -0.2
LPO	51.88	302	eP	59	59.80	-1.1		1.5s	1.40nm			4.0mb		0.9s 0.70nm 3.9mb
FLN	51.90	307	eP	59	59.60	-1.4		1.0s	11.25nm			5.1mb		S.D. = 0.8 on 28 of 34 obs.
	0.7s	11.00nm			4.6mb			97.75	1	eP	04	25.30	0.9	APR 27, 1991 11h 07m 29.07± 0.46s
Z	22s	0.10um			3.8MsZ			132.61	282	PKP	10	02.00	-1.6	20.013 S ± 5.7km 178.153 W ± 7.2km
EKA	52.07	316	Pd	00	01.50	-0.6		138.27	288	PKP	10	15.00	0.0	DEPTH = 591.9 ± 5.7 km
	1.1s	31.00nm			4.8mb			138.40	287	PKP	10	04.00	-11.0X	4.4mb (12 obs.)
LFF	52.11	302	eP	00	01.90	-0.7		140.95	290	ePKP	10	20.00	0.5	FIJI ISLANDS REGION (181)
	0.7s	6.05nm			4.3mb			148.14	263	ePKP	10	34.00	3.2X	
GRR	52.24	307	eP	00	02.00	-1.4		148.95	263	ePKP	10	32.00	0.1	
	0.7s	5.50nm			4.3mb									
MFF	52.25	305	eP	00	02.20	-1.3								
	0.8s	4.05nm			4.1mb									
EPF	52.96	300	eP	00	07.40	-1.4								
	0.7s	5.50nm			4.3mb									
MAT	53.30	68 (P)		00	10.00	-1.4								
	1.3s	57.69nm			5.0mb									
		eS		07	44.00									
BTH	53.31	300	Pc	00	10.50	-0.9								
		sP		01	18.00									
YAMJ	54.06	66	P	00	16.50	-0.5								
TSM	54.11	115	ePc	00	16.80	-0.7								
DAG	54.69	344	iPd	00	20.70	-0.3								
	0.4s	57.63nm			5.6mb									

27d 11h

CTA	33.40	264	iPd	13	22.00	0.5
	0.9s		46.22nm			5.1mb
TOO	36.07	233	iPc	13	45.00	1.6
STK	37.88	244	iPd	13	59.30	1.1
	1.1s		3.60nm			3.8mb
MDG	38.01	288	eP	13	58.52	-1.0
ASPA	44.49	256	iPd	14	50.80	-0.1
	1.2s		51.80nm			4.9mb
			i	16	21.00	
			iS	20	43.10	
WARB	50.84	252	eP	15	37.70	-0.8
MBL	57.73	257	eP	16	25.70	-1.0
MUN	59.41	244	eP	16	38.00	0.2
MAT	69.73	324	eP	17	41.00	-1.2
ADK	71.60	1	e(P)	17	50.90	-1.8
PRS	77.57	44	eP	18	27.20	1.0
SAO	77.77	43	eP	18	28.10	0.8
PRI	77.92	44	eP	18	33.90	5.7X
BRK	77.92	42	eP	18	28.70	0.7
MHC	77.99	43	eP	18	29.50	0.9
ARN	78.07	43	eP	18	29.50	0.6
PLM	78.94	48	eP	18	33.70	0.0
PEC	79.02	48	eP	18	33.80	-0.2
FRI	79.04	44	eP	18	34.30	0.4
CMB	79.20	43	eP	18	35.00	0.1
ORV	79.41	41	eP	18	36.00	0.2
NJ2	79.46	310	eP	18	37.00	0.8
MIN	79.82	40	eP	18	38.40	0.3
MDJ	80.04	325	eP	18	39.20	0.2
LBFM	80.25	39	eP	18	40.90	0.5
BONR	80.50	44	eP	18	42.30	0.4
TNP	81.28	44	eP	18	45.80	0.0
	0.8s		8.58nm			4.3mb
CN2	81.83	322	Pd	18	47.80	-0.3
	1.0s		10.00nm			4.3mb
PDB	81.89	12	eP	18	46.40	-1.7
SVW	82.85	11	eP	18	52.30	-0.6
SHW	83.03	35	eP	18	54.90	0.6
GMW	83.58	34	eP	18	57.20	0.4
MCW	84.27	33	eP	19	00.80	0.6
TTA	84.49	10	eP	19	00.10	-0.9
PMR	84.58	13	eP	19	00.70	-0.6
	0.9s		16.20nm			4.7mb
MSU	84.87	46	eP	19	04.30	0.7
KLU	85.23	15	eP	19	04.00	-0.6
BJI	85.45	315	eP	19	06.50	0.5
GYA	86.28	300	P	19	11.40	0.9
PNT	86.33	34	eP	19	10.00	-0.1
	0.7s		8.00nm			4.6mb
DAU	86.44	45	eP	19	11.50	0.3
TIY	86.85	312	eP	19	14.70	1.8
NEW	87.06	36	eP	19	13.00	-0.6
	0.7s		3.50nm			4.2mb
ALQ	87.21	51	eP	19	15.00	0.2
	1.0s		4.50nm			4.2mb
			e	21	24.00	
XAN	87.72	307	iPd	19	18.00	1.0
IMA	87.79	10	eP	19	16.20	-0.5
	0.8s		6.70nm			4.5mb
FBA	87.80	12	iPd	19	15.80	-0.8
BLM	88.43	40	eP	19	20.80	0.5
BR06	88.71	43	iP	19	21.80	0.2
	0.8s		9.29nm			4.7mb
SES	91.56	36	ePd	19	34.00	-0.3
RSSD	92.90	44	eP	19	40.00	-0.9
INK	93.84	15	eP	19	43.00	-1.3
YKA	96.13	25	eP	19	53.30	-1.4
	0.6s		1.10nm			4.3mb
KAF	134.65	344	iPKP	25	40.00	-2.0
	0.5s		3.20nm			
			eSP	25	42.10	
NUR	136.43	344	ePKP	25	44.40	-1.0
NB2	138.48	353	PKP	25	37.90	-11

	0.9s	55.00nm			
MML	147.58	299 iPKPd	26 09.50	3.9X	
MLR	147.74	327 ePKP	26 05.00	-0.6	
BRG	147.75	346 ePKP	26 05.40	0.1	
		i	26 08.60		
		i	26 12.80		
WTS	147.85	354 ePKP	26 09.00	3.7X	
	0.8s	35.00nm			
PRU	148.43	344 iPKPd	26 10.70	4.3X	
	0.7s	22.50nm			
		e	26 16.10		
MOX	148.47	348 ePKP	26 06.00	-0.4	
RMN	148.67	296 iPKPd	26 11.90	4.4X	
BNS	148.83	353 iPKPc	26 11.90	5.0X	
	1.2s	67.00nm			
ENN	149.14	355 iPKPd	26 12.30	4.9X	
	0.9s	30.00nm			
		i	26 18.40		
MEM	149.29	355 PKPd	26 12.60	5.0X	
ZST	149.30	340 iPKP	26 13.20	5.5X	
TNS	149.40	352 ePKPd	26 12.80	4.9X	
GRF	149.46	348 e(PKP)	26 10.00	2.1	
Z	19s	0.10um		4.6Msz	
		id	26 13.60		
		e	26 20.80		
KHC	149.46	345 ePKP	26 08.80	0.8	
	1.0s	14.50nm			
		i	26 13.20		
		e	26 20.50		
SNF	149.51	357 PKP	26 15.50	5.6X	
ABH	149.85	353 ePKP	26 14.01	5.5X	
DOU	149.90	356 iPKPc	26 14.30	5.7X	
FLN	151.26	3 ePKP	26 16.80	6.2X	
	0.7s	16.55nm			
Z	19s	0.15um		4.8Msz	
CDF	151.33	352 ePKP	26 17.10	6.2X	
	0.8s	12.10nm			
LDF	151.44	3 ePKP	26 17.20	6.3X	
	0.8s	13.45nm			
GRR	151.61	4 ePKP	26 17.50	6.4X	
	0.6s	14.45nm			
HAU	151.84	354 ePKP	26 18.20	6.7X	
	1.0s	12.00nm			
Z	21s	0.12um		4.7Msz	
LPF	151.95	4 ePKP	26 18.40	6.8X	
	0.7s	27.55nm			
BSF	151.96	353 ePKP	26 18.20	6.4X	
	0.7s	6.60nm			
LJU	152.02	341 e(PKP)	26 18.50	6.7X	
VOY	152.22	342 iPKPc	26 18.90	6.7X	
VBY	152.27	339 e(PKP)	26 19.90	7.7X	
LOR	152.76	357 ePKP	26 20.10	7.2X	
	0.7s	5.50nm			
SSF	152.99	358 ePKP	26 20.90	7.8X	
	0.8s	6.70nm			
LBF	153.04	357 ePKP	26 20.70	7.4X	
	0.8s	4.70nm			
MFF	153.43	3 ePKP	26 21.70	8.0X	
	0.8s	6.70nm			
BGF	153.51	358 ePKP	26 22.50	8.6X	
	0.8s	7.40nm			
TCF	153.79	359 ePKP	26 22.20	7.9X	
LSF	153.83	1 ePKP	26 22.10	7.8X	
	0.8s	16.10nm			
S.D. = 1.0 on 71 of 109 obs.					
<hr/>					
APR 27, 1991 12h 12m 20.44± 1.48s					
4.496 S ± 8.3km 102.821 E ± 8.4km					
DEPTH = 107.6 ± 11.9 km					
5.1mb (12 obs.)					
SOUTHERN SUMATERA					(274)
KGM	6.49	4 ePc	13 54.10	-0.9	
KLM	7.64	351 ePd	14 11.00	0.3	
PSI	8.14	331 ePd	14 22.60	5.2X	
IPM	9.19	349 ePc	14 31.90	0.1	
SNG	11.80	349 eP			

ASPA	35.52 0.7 s	125 14.60nm	iPc eS	19 24	08.40 37.50	-0.6 5.0mb
PKI	36.04	333	P	19	13.26	-0.4
GUN	36.12 0.3 s	334 69.00nm	P eS	19	14.40	0.0 6.0mb
DMN	36.21	333	P	19	15.06	0.1
KKN	36.29	333	P	19	15.36	-0.2
WHN	36.54	17	eP	19	19.00	1.6
GKN	36.76	333	P	19	19.30	-0.2
XAN	38.76	8	P	19	35.30	-0.7
QIS	39.16	117	iPc	19	39.00	-0.5
LZH	40.38 1.0 s	1 35.00nm	eP eS	19	49.50	0.0 5.1mb
Z	15 s	0.24um				4.2MszX
E	10 s	0.26um				
NDI	41.17 0.6 s	325 36.67nm	iPc eS	19	56.00	0.1 5.4mb
TIY	42.93	11	eP	26	04.50	
GTA	43.78 1.0 s	357 20.00nm	iPc eS	20	17.50	0.4 4.9mb
CTA	45.00 1.0 s	114 58.00nm	iPc eS	20	26.90	-0.2 5.3mb
STK	45.40 0.5 s	132 17.40nm	iPc i	20	30.40	0.4 5.1mb
HHC	45.83	9	P	20	34.50	1.1
BJI	45.99	14	eP	20	35.00	0.5
WMO	49.99 1.0 s	346 100.00nm	iPc eS	21	05.50	-0.2 5.8mb
CN2	52.22 1.0 s	21 20.00nm	Pc eS	21	21.00	-1.4 5.1mb
MAT	52.53	36	eP	21	23.00	-1.9
BRS	52.70	121	iPc i	21 21	27.00 34.00	0.6
DZM	63.90	112	iPc	22	44.50	0.0
PRNI	73.37	303	eP	23	43.00	0.3
MLR	84.04	316	eP	24	41.00	0.6
KAF	87.67 0.6 s	333 5.50nm	iP eS	24 24	58.80 59.80	1.1 4.8mb
NUR	88.08	331	eP	25	00.10	0.4
KEV	89.31	340	eP	24	57.00	-8.4X
YKA	115.89 0.9 s	18 0.90nm	ePKP e	30 31	50.50 21.50	-1.2 -5.7X
RSSD	134.00	27	ePKP e	31 31	21.50 28.00	
ALO	139.36	38	ePKP	31	37.00	-0.5
BAO	144.86 S.D. = 0.9	235 on 41 of 44 obs.	ePKPc	31	48.70	1.2
* APR 27, 1991 12h 15m 28.34±0.85s 17.537 S ±12.7km 167.257 E ±10.9km DEPTH = 33.0km (normal) (186)						
VANUATU ISLANDS						
BKM	0.95	98	iPd iS	15 15	45.00 57.00	-0.4
PVC	1.03	102	iPc iS	15 15	46.10 59.00	-0.3
DZM	4.58	189	iPc iS	16 17	36.70 29.40	-0.4
HNR	10.74	318	eP	18	02.00	-1.0
SVO	11.04	318	eP	18	07.00	-0.1
CDF	145.15 0.8 s	336 13.45nm	ePKP eS	35	06.40	2.2
BSF	145.81 0.8 s	336 5.35nm	ePKP eS	35	08.20	2.8X
HAU	145.83 0.8 s	337 5.35nm	ePKP eS	35	08.40	3.1X
LOR	147.35	339	ePKP	35	12.90	5.2X
SSF	147.65 0.9 s	339 4.90nm	ePKP eS	35	13.10	4.9X
LPG	147.72 0.7 s	334 5.50nm	ePKP eS	35	14.60	5.8X
BGF	148.31	339	ePKP	35	15.60	6.3X
S.D. = 1.5 on 6 of 12 obs.						
% APR 27, 1991 12h 42m 02.74±0.59s 41.140 N ±7.2km 28.483 E ±4.4km DEPTH = 10.0km (geophysicist) (366)						
TURKEY						
MD 2.8 (ISK).						
CTT	0.04	281	iPg	42	04.30	-0.5
ISK	0.44	99	iPg	42	11.50	-0.2

DMK 0.87 322 iPn 42 20.00 0.5
 YLV 0.89 130 iPn 42 20.00 0.2
 BNT 0.89 209 ePn 42 20.40 0.5
 HRT 0.95 109 iPn 42 20.90 0.0
 IZI 1.10 137 iPn 42 26.00 2.6X
 KGT 1.13 233 ePn 42 23.50 -0.4
 EYL 1.39 114 iPn 42 28.20 -0.1

S.D. = 0.5 on 8 of 9 obs.

* APR 27, 1991 12h 59m 43.08±1.71s
 42.308 N ± 9.5km 126.535 W ±12.8km
 DEPTH = 10.0km (geophysicist)
 3.6mb (3 obs.)
 OFF COAST OF OREGON (30)

KMOR 3.99 32 P 00 44.92 -0.7
 GT2 4.20 46 P 00 49.02 0.4
 PGO 4.32 42 P 00 52.16 1.9
 NLO 4.38 29 P 00 51.00 -0.2
 VLMM 4.58 44 P 00 54.26 0.2
 RVW 4.71 34 P 00 56.40 0.6
 VFP 4.74 49 P 00 57.62 1.1
 LVP 4.79 37 P 00 57.24 0.2
 BMW 4.79 29 P 00 57.58 0.5
 CROR 4.83 55 P 00 56.57 -1.1
 VIPM 4.84 61 P 00 57.27 -0.6
 MTMW 4.85 38 P 00 57.94 0.1
 APM 4.90 44 P 00 59.01 0.4
 SHW 4.96 37 P 00 59.82 0.3
 HSR 4.97 37 P 01 00.71 1.1
 CDFW 4.99 39 P 00 59.91 0.1
 ERK 5.00 36 P 01 00.73 0.7
 CZM 5.04 34 P 01 01.48 1.0
 GULW 5.07 43 P 01 01.34 0.3
 KOSW 5.19 35 P 01 03.33 0.7
 VTHM 5.19 54 P 01 02.15 -0.6
 ASR 5.23 41 P 01 03.38 0.1
 VGB 5.25 50 P 01 02.99 -0.6
 CPW 5.26 26 P 01 02.78 -0.8
 LMW 5.31 33 P 01 04.63 0.2
 GL2 5.50 46 P 01 07.20 0.1
 GLK 5.53 38 P 01 07.54 0.0
 LON 5.58 36 P 01 08.38 0.2
 WPW 5.66 37 P 01 09.35 0.0
 RVC 5.66 34 P 01 09.59 0.2
 OOW 5.68 16 P 01 09.55 0.0
 JBO 5.78 55 P 01 10.22 -0.7
 FMW 5.78 35 P 01 11.36 0.3
 GSM 5.94 33 P 01 13.50 0.2
 NAC 6.02 41 P 01 14.36 0.0
 EBG 6.27 41 P 01 17.93 0.0
 PRW 6.28 49 P 01 17.00 -1.0
 HTW 6.45 30 P 01 19.56 -0.8
 WIW 6.63 49 P 01 22.00 -0.9
 GBL 6.63 47 P 01 22.78 -0.2
 WAH2 6.68 46 P 01 23.02 -0.6
 LOCW 6.72 47 P 01 23.07 -1.2
 RC1 6.87 45 P 01 25.79 -0.4
 PNT 8.51 32 eP 01 48.00 -1.2

0.6s 4.00nm 4.9mb X
 LRM 10.73 66 eP 02 20.90 0.9
 ALO 17.30 109 eP 03 47.00 0.6
 1.0s 3.00nm 3.4mb
 FFC 20.34 44 eP 04 22.00 0.0
 1.1s 10.00nm 4.1mb
 YKA 21.42 15 eP 04 32.20 -0.8
 1.1s 2.90nm 3.6mb
 S.D. = 0.7 on 48 of 48 obs.

* APR 27, 1991 13h 05m 07.53±0.52s
 9.995 N ±10.4km 83.188 W ± 9.9km
 DEPTH = 10.0km (geophysicist)
 4.5mb (9 obs.)
 COSTA RICA (78)
 MD 4.8 (SJR). Felt.

UPA 3.74 105 iPc 06 07.00 0.4
 S 06 49.50
 SDV 12.44 94 eP 08 07.30 -0.4
 TOV 13.20 90 eP 08 17.30 -0.5
 PPM 17.44 303 eP 09 17.00 3.8X
 NNA 22.73 164 eP 10 12.50 1.4
 0.5s 59.86nm 5.4mb
 RSCP 25.58 356 P 10 40.50 2.0
 MEO 28.40 333 iPc 11 04.00 -0.3
 ZOBO 30.05 150 P 11 20.00 0.1
 Z 24s 0.20um 3.7mszX

S 17 40.00
 LR 22 40.00
 LPB 30.29 150 P 11 02.00 -19.9X
 ALO 32.68 323 eP 11 42.00 -0.4
 1.0s 3.00nm 4.2mb
 ANMO 32.68 323 P 11 44.00 1.6
 1.0s 10.00nm 4.7mb
 SIV 33.85 139 P 11 50.80 -1.8
 GOL 35.57 330 P 12 07.60 0.2
 0.8s 3.13nm 4.2mb
 RSSD 38.50 336 eP 12 31.50 -0.4
 1.1s 11.80nm 4.5mb
 BAO 43.17 126 eP 13 10.80 0.2
 FFC 47.05 345 eP 13 41.00 0.1
 0.6s 5.00nm 4.8mb
 PNT 49.53 329 eP 14 00.00 -0.4
 FRB 54.67 8 eP 14 34.00 -4.6X
 YKA 57.11 343 eP 14 54.50 -1.8
 0.8s 2.10nm 4.2mb
 INK 66.81 342 eP 16 01.00 -0.2
 FBA 70.36 336 P 16 22.00 -1.3
 0.7s 2.91nm 4.5mb
 IMA 73.04 336 P 16 39.00 -0.5
 LKO 76.29 83 P 16 59.78 0.8
 NB2 83.46 29 P 17 37.70 1.1
 0.9s 2.30nm 4.4mb
 ASPA 142.12 244 ePKP 24 37.50 -5.2X
 0.6s 2.00nm
 S.D. = 1.1 on 21 of 25 obs.

% APR 27, 1991 13h 54m 44.68±0.91s
 37.717 N ± 7.1km 14.976 E ± 7.9km
 DEPTH = 10.0km (geophysicist)
 SICILY (398)

MNO 0.31 314 Pc 54 51.20 0.0
 eSg 54 56.80
 ATN 0.59 41 P 54 56.70 0.1
 eSg 55 04.50
 MEU 0.62 183 P 54 56.90 -0.3
 eSg 55 06.00
 GIB 0.80 290 P 54 59.80 -0.5
 eSg 55 12.00
 FAI 1.12 247 P 55 06.30 0.6
 S.D. = 0.6 on 5 of 5 obs.

% APR 27, 1991 13h 56m 32.37±0.90s
 37.733 N ± 7.7km 15.018 E ± 7.9km
 DEPTH = 10.0km (geophysicist)
 SICILY (398)

MNO 0.32 308 Pc 56 39.60 0.4
 eSg 56 45.30
 ATN 0.55 39 P 56 44.70 1.1
 eSg 56 54.00
 MEU 0.63 186 Pc 56 45.00 -0.2
 eSg 56 54.60
 GIB 0.82 288 P 56 47.70 -0.7
 eSg 56 59.80
 FAI 1.16 247 P 56 54.60 0.5
 TDS 2.18 28 P 57 08.00 -1.2
 eSn 57 34.00
 S.D. = 1.1 on 6 of 6 obs.

APR 27, 1991 14h 48m 42.42±0.89s
 17.185 N ± 5.9km 100.298 W ± 7.5km
 DEPTH = 52.7 ± 6.3 km
 4.6mb (16 obs.) 4.1msz (1 obs.)
 GUERRERO, MEXICO (59)

ACX 0.52 127 iPc 48 54.31 0.1
 iS 49 01.00
 III 1.42 34 eP 49 06.32 -0.2
 iS 49 21.33
 CRX 2.29 15 eP 49 19.00 0.3
 (S) 49 47.61
 UNM 2.38 26 (P) 49 20.00 0.0
 PPM 2.45 40 iP 49 21.45 0.2
 iS 49 48.79
 IIA 2.50 38 eP 49 21.42 0.0
 IIT 2.63 46 eP 49 23.28 -0.3
 IISM 3.31 57 iP 49 33.44 0.5
 (S) 50 06.11
 CGX 3.91 310 iP 49 45.50 3.9X
 iS 50 32.50
 AGX 5.04 338 (P) 50 12.42 15.1X
 MEO 17.59 5 e(P) 52 40.50 -5.0X

ALO 18.52 344 eP 52 56.10 -1.0
 0.8s 10.63nm 4.1mb
 ANMO 18.52 344 P 52 57.30 0.2
 0.6s 33.33nm 4.7mb
 OLY 19.87 22 P 53 09.00 -3.0X
 PLM 21.94 320 P 53 36.60 3.3X
 FVM 22.46 21 eP 53 37.00 -1.2
 0.9s 16.95nm 4.5mb
 RSCP 22.54 33 P 53 38.00 -1.1
 GOL 22.86 350 P 53 43.00 0.5
 0.8s 11.90nm 4.4mb
 TKL 23.55 35 P 53 48.00 -0.8
 MSU 23.66 336 P 53 50.50 0.4
 SGS 23.90 44 P 53 53.50 1.2
 JSC 24.09 41 P 53 54.00 -0.1
 LHS 24.51 42 P 53 58.00 -0.1
 TNP 25.57 328 eP 54 09.80 1.4
 1.1s 9.09nm 4.2mb
 BLA 26.55 37 eP 54 17.90 0.6
 0.9s 26.89nm 4.8mb
 RSSD 27.04 354 eP 54 31.80 10.0X
 1.0s 15.18nm 4.6mb
 PNT 35.67 338 eP 55 38.00 0.6
 0.4s 2.00nm 4.4mb
 FFC 37.49 358 eP 55 51.00 -1.6
 0.9s 7.00nm 4.6mb
 ZOBO 45.94 135 P 57 03.90 1.1
 Z 18s 0.19um 4.1msz
 LR 13 18.00

LPB 46.15 135 P 57 02.00 -2.2
 YKA 46.36 351 eP 57 07.80 2.9X
 0.8s 2.40nm 4.2mb
 TOA 55.10 336 P 58 11.80 0.5
 INK 55.26 346 eP 58 11.50 -0.7
 PMR 56.03 334 P 58 17.50 -0.4
 0.8s 10.69nm 4.9mb
 pP 58 27.70 33kmX
 FBA 57.24 338 P 58 25.60 -0.9
 1.0s 12.50nm 4.9mb
 pP 58 35.50 32kmX

BAO 61.02 119 eP 58 53.70 0.3
 PDCR 67.25 112 eP 59 33.50 -0.5
 DAG 71.45 14 iPd 00 09.00 10.2X
 0.4s 10.17nm
 NB2 85.07 27 P 01 14.20 0.6
 0.8s 3.20nm 4.5mb

KEV 85.78 16 eP 01 23.00 6.1X
 TCF 86.10 43 eP 01 19.60 0.6
 0.7s 2.20nm 4.5mb
 SSF 86.65 42 eP 01 22.10 0.4
 0.9s 5.75nm 4.8mb

AVF 86.66 42 eP 01 22.10 0.4
 LOR 86.80 41 eP 01 23.30 0.9
 0.7s 3.85nm 4.7mb
 SOD 87.22 18 eP 01 24.00 0.0
 HAU 88.07 40 eP 01 29.40 0.9
 NUR 90.90 24 eP 01 54.00 12.5X
 HYB 145.60 2 ePKPc 08 17.00 -0.3
 1.0s 35.00nm

GBA 149.33 4 PKPd 08 26.90 3.6X
 0.8s 6.50nm
 S.D. = 0.8 on 38 of 49 obs.

? APR 27, 1991 15h 15m 23.41±2.25s
 31.677 S ±22.2km 69.729 W ±24.4km
 DEPTH = 110.0km (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA (137)

RTBS 0.24 86 iPd 15 39.30 0.0
 RTCB 0.82 77 iPd 15 43.20 0.0
 eS 16 00.00
 ZON 0.91 82 eP 15 43.70 -0.3
 eS 16 00.70
 RTLL 1.13 73 iPc 15 46.00 -0.3
 CFA 1.27 87 ePc 15 48.50 0.6
 eS 16 09.00
 RTRS 1.52 9 iPd 15 50.90 0.1
 S 16 12.20
 S.D. = 0.4 on 6 of 6 obs.

% APR 27, 1991 15h 15m 46.03±0.83s
 41.135 N ± 8.0km 28.969 E ± 5.4km
 DEPTH = 11.1 ± 5.3 km
 TURKEY (366)
 MD 2.5 (ISK).

27d 15h

ISK 0.10 136 iPg 15 48.60 -0.2
 CTT 0.41 272 iPg 15 54.40 0.0
 HRT 0.61 120 ePg 15 58.30 0.0
 YLV 0.65 152 iPg 15 58.90 0.0
 IZI 0.88 154 iPg 16 03.30 0.3
 KCT 1.00 208 ePn 16 04.80 -0.1
 BNT 1.11 226 ePn 16 07.30 0.5
 DMK 1.14 307 ePn 16 07.50 0.2
 KGT 1.44 242 ePn 16 11.30 -0.7

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

APR 27, 1991 15h 38m 50.26 ± 0.55s
 39.646 N ± 5.5km 19.750 E ± 4.8km
 DEPTH = 10.0km (geophysicist)
 3.6mb (2 obs.)
 GREECE-ALBANIA BORDER REGION (392)
 ML 4.1 (ATH). MD 3.8 (THE).

IGT 0.46 104 eP 38 57.80 -1.9
 LCI 1.54 297 P 39 17.50 -0.3
 VLS 1.61 156 eP 39 18.70 -0.1
 OHR 1.67 28 iPn 39 20.20 0.5
 FNA 1.69 47 eP 39 19.80 -0.2
 KZN 1.69 66 eP 39 20.20 0.2
 AGG 2.10 106 eP 39 27.00 1.1
 LIT 2.16 77 eP 39 27.40 0.6
 BRT 2.30 303 P 39 32.00 3.1X
 GRG 2.41 56 eP 39 30.50 0.1
 ORI 2.57 280 P 39 32.50 -0.2
 BAI 2.65 305 P 39 38.00 4.3X
 SKO 2.65 28 ePn 39 33.80 0.0

VAY 2.73 51 iPn 39 34.50 -0.3
 SOH 3.00 66 eP 39 38.70 0.0
 PAIG 3.04 83 eP 39 38.60 -0.7
 ATH 3.52 117 eP 39 47.40 1.3
 VLI 3.85 138 eP 39 50.70 -0.2
 HFS 20.86 351 eP 43 27.70 -6.8X
 NB2 22.06 349 P 43 43.60 -3.1X
 S.D. = 0.8 on 16 of 20 obs.

& APR 27, 1991 15h 42m 26.21s
 56.481 N 151.339 W
 DEPTH = 10.0km (geophysicist)
 4.3mb (5 obs.)
 KODIAK ISLAND REGION (13)
 <AEIC>. ML 4.2 (PMR), 4.1 (AEIC).

SYI 2.21 346 eP 42 57.96 -5.5
 CDD 2.75 334 eP 43 06.62 -4.6
 XLV 2.99 356 eP 43 09.17 -5.3
 CNPM 3.05 1 iP 43 09.79 -5.6
 AUI 3.07 340 eP 43 10.98 -4.7
 AUE 3.08 340 eP 43 11.97 -3.8
 AUH 3.10 340 eP 43 11.66 -4.5
 MCNL 3.15 331 eP 43 11.37 -5.4
 >NNL 3.57 0 eP 43 17.47 -5.3
 PDB 3.64 337 eP 43 17.97 -5.9
 SEW 3.77 15 eP 43 18.82 -6.7
 MTU 4.02 27 eP 43 22.90 -6.2
 RED 4.02 350 eP 43 22.88 -6.3
 RSO 4.06 350 eP 43 23.36 -6.5
 RS2 4.06 350 eP 43 23.45 -6.5

SLKM 4.08 8 eP 43 23.27 -6.7
 REF 4.08 350 eP 43 23.89 -6.3
 RDW 4.09 350 eP 43 23.69 -6.5
 RDN 4.11 350 eP 43 24.29 -6.3
 RDT 4.14 353 eP 43 24.22 -6.7
 NCT 4.18 349 eP 43 24.96 -6.5
 DFR 4.18 351 eP 43 24.89 -6.6
 KNIM 4.32 25 eP 43 26.69 -6.7
 SPU 4.73 356 eP 43 32.02 -7.3
 CKL 4.76 354 eP 43 32.39 -7.4
 CRP 4.82 355 eP 43 33.51 -7.2

BGL 4.83 354 eP 43 33.51 -7.2
 PMS 4.87 10 eP 43 34.05 -7.2
 GLI 4.94 25 eP 43 36.10 -6.0
 NCG 4.96 355 eP 43 35.14 -7.4
 SUA 5.01 3 eP 43 35.85 -7.4
 SVW 5.15 336 eP 43 38.60 -6.6
 KNK 5.17 16 eP 43 38.24 -7.2
 VZW 5.22 26 eP 43 39.32 -6.9
 PWA 5.24 8 eP 43 39.98 -6.4

PLRM 5.25 12 eP 43 39.17 -7.4
 PMR 5.25 12 eP 43 39.70 -6.9
 SDN 5.28 261 eP 43 38.80 -8.1
 VLZ 5.34 27 eP 43 41.29 -6.5
 GHO 5.45 12 eP 43 42.22 -7.3
 SKT 5.52 359 eP 43 42.54 -7.9
 SML 5.56 15 eP 43 44.68 -6.4
 SCM 5.75 19 eP 43 47.29 -6.4
 KLU 5.75 27 eP 43 47.14 -6.6
 CROM 6.06 42 eP 43 52.31 -5.8
 TGL 6.17 43 eP 43 54.06 -5.6
 TOA 6.23 23 eP 43 55.60 -4.8

GLB 6.31 35 eP 43 53.90 -7.8
 TZL 6.35 26 eP 43 57.05 -5.0
 BALM 6.54 42 eP 43 58.70 -6.1
 SDG 6.74 24 eP 44 01.72 -5.9
 CTGM 6.88 45 eP 44 03.30 -6.4
 TTA 6.89 342 eP 44 00.90 -8.8
 PNL 7.09 58 eP 44 07.66 -4.9
 FBA 8.62 10 eP 44 26.50 -7.4
 IMA 9.69 354 eP 44 41.70 -7.0

0.9s 5.00nm 4.9mb
 INK 14.37 27 eP 45 46.00 -5.3
 YKA 19.38 57 eP 46 52.40 -2.3
 0.8s 1.70nm 3.4mb
 PNT 20.29 97 eP 47 09.00 4.4
 NEW 22.25 97 eP 47 23.50 -1.0
 1.0s 12.50nm 4.3mb
 LBFM 24.32 116 eP 47 43.50 -1.4
 MSU 31.42 108 e(P) 48 48.50 -1.2
 SOD 56.45 1 iP 52 03.60 -6.2
 NB2 62.02 10 P 52 42.40 -6.0

0.7s 1.70nm 4.3mb
 HFS 63.13 8 eP 52 49.20 -6.5
 0.5s 0.70nm 4.1mb
 epP 52 52.70 11kmX
 esP 52 55.20

GUN 83.02 311 P 54 48.60 -4.6
 KKN 83.37 312 P 54 50.30 -4.6
 GKN 83.45 312 P 54 50.40 -4.8
 PKI 83.51 312 P 54 50.80 -5.0
 DMN 83.60 312 P 54 51.60 -4.5
 70 obs. associated

? APR 27, 1991 15h 45m 42.48 ± 4.60s
 10.088 S ± 56.8km 73.846 W ± 11.5km
 DEPTH = 85.1 ± 23.6 km

PERU (116)
 NNA 3.50 237 iPc 46 35.70 0.0
 ZOBO 8.29 138 P 47 42.00 -0.6
 LPB 8.50 139 P 47 46.00 0.6
 SIV 13.75 117 P 48 55.20 0.0
 AIA 55.48 175 eP 55 10.40 0.0
 S.D. = 0.9 on 5 of 5 obs.

APR 27, 1991 15h 55m 00.20 ± 0.40s
 39.722 N ± 4.5km 19.680 E ± 3.1km
 DEPTH = 57.3 ± 11.1 km
 4.1mb (3 obs.)
 GREECE-ALBANIA BORDER REGION (392)
 MD 4.2 (ATH).

LCI 1.46 295 P 55 24.40 -0.2
 OHR 1.63 31 iPnc 55 28.20 1.2
 iSg 55 50.50

FNA 1.68 50 eP 55 28.00 0.3
 VLS 1.70 155 ePn 55 26.60 -1.3
 KZN 1.71 69 ePn 55 28.10 -0.1
 AGG 2.17 108 eP 55 34.90 0.3
 LIT 2.19 79 eP 55 35.90 1.0
 BRT 2.22 302 P 55 37.50 2.3X
 ULC 2.26 352 iPnd 55 35.63 -0.2
 GRG 2.42 58 eP 55 38.60 0.5
 ORI 2.51 279 P 55 40.90 1.6
 TDS 2.58 270 P 55 42.70 2.4X
 SKO 2.61 30 iPn 55 41.60 0.8

iPg 55 47.30
 iSg 56 22.70
 Lg 56 38.00
 BDV 2.64 346 iPnc 55 40.33 -0.8
 iSn 56 14.15
 THE 2.68 69 eP 55 41.40 -0.3
 VAY 2.72 53 iPn 55 43.00 0.7
 iSg 56 32.30
 Lg 56 36.40
 TTG 2.72 353 iPnd 55 42.22 -0.1
 iSn 56 16.38
 HCY 2.87 342 iPnd 55 43.63 -0.8
 iSn 56 19.67
 PVY 2.88 4 iPnc 55 44.80 0.1
 iSn 56 20.08

SOH 3.02 67 eP 55 46.40 -0.2
 PAIG 3.09 85 eP 55 46.60 -1.0
 NKY 3.13 351 iPnd 55 48.30 0.0
 iSn 56 26.58
 IVA 3.15 3 iPnc 55 48.32 -0.2
 iSn 56 27.20
 BRY 3.29 345 iPnd 55 49.62 -0.9
 iSn 56 28.85
 SRS 3.30 64 eP 55 50.50 0.0
 ATH 3.60 118 ePn 55 53.90 -0.9
 PLE 3.61 357 iPnc 55 54.90 -0.1
 iSn 56 37.55

ATN 3.64 246 P 55 55.40 0.1
 VLI 3.95 138 ePn 55 58.80 -0.8
 HVAR 4.22 326 iPn 56 03.40 -0.1
 DUL 4.42 298 P 56 08.00 1.7
 MEU 4.56 236 P 56 05.00 -3.3X
 RDO 4.69 70 ePn 56 11.00 0.9
 SDI 4.88 296 P 56 15.00 2.2X
 BEO 5.13 6 eP 56 30.50 14.3X
 AQU 5.43 301 P 56 21.20 0.7
 MNS 5.92 299 P 56 28.80 1.4
 ARV 6.30 309 P 56 32.10 -0.6
 VBY 6.63 332 ePn 56 35.70 -1.6
 eSn 57 50.90

PTJ 6.75 337 e(Pn) 56 31.20 -7.8X
 eSn 57 39.70
 CMP 6.81 34 ePc 56 57.00 17.2X
 RIY 6.84 327 ePn 56 38.90 -1.3
 CRE 6.98 307 P 56 43.10 0.9
 SFI 7.19 308 P 56 46.40 1.3
 PGD 7.25 307 P 56 46.60 0.5
 LJU 7.36 331 ePn 56 45.70 -1.7
 e 56 49.60
 eSn 58 08.00

MLR 7.39 37 eP 56 50.00 2.1
 TRI 7.40 326 ePn 56 45.70 -2.2X
 eSn 58 09.60
 VOY 7.60 328 ePn 56 49.10 -1.8
 eSn 58 12.20
 MME 8.04 307 P 56 58.80 1.7
 VVI 8.22 322 P 56 57.80 -1.5
 FVI 8.52 326 P 57 03.10 -0.2
 CTI 8.64 320 P 57 02.90 -2.3X
 KBA 8.68 330 i(Pn) 57 02.40 -3.3X
 e 58 16.00
 KHC 10.36 337 eP 57 26.90 -1.8X
 PRU 10.89 342 eP 57 34.00 -1.8
 HFS 20.78 352 eP 59 38.20 -0.2
 0.4s 4.20nm 4.1mb
 epP 59 42.20 15kmX
 esP 59 45.00
 EKA 21.79 323 P 59 51.00 2.3X
 1.5s 23.90nm 4.4mb

27d 15h

NB2 21.98 349 P 59 51.00 0.5
0.6s 3.00nm 3.9mb
KAF 22.78 8 eP 59 58.90 0.6
S.D. = 1.0 on 48 of 60 obs.

APR 27, 1991 16h 35m 02.54±1.02s
18.918 N ± 3.2km 145.851 E ± 9.7km
DEPTH = 151.4 ± 10.3 km
4.8mb (10 obs.)

MARIANA ISLANDS (216)

PJG 5.38 190 eP 36 22.70 0.8
GUA 5.42 190 eP 36 23.00 0.5
0.3s 249.35nm 5.9mb X

IIDJ 17.93 339 P 39 03.40 -0.3
TSRJ 18.72 334 P 39 11.70 -0.3
MAT 18.80 341 (P) 39 10.00 -2.9
(S) 39 39.00

MTMJ 18.97 340 P 39 12.70 -2.1
NIJ 19.22 343 P 39 16.90 -0.3
YAMJ 19.84 346 P 39 23.70 0.0
OFUJ 20.42 351 P 39 29.20 -0.2

HOOJ 23.49 355 P 40 01.70 2.2
MRRJ 23.78 351 eP 40 02.80 0.5
KUSJ 24.13 358 eP 40 04.90 -0.7
ASAJ 25.27 355 P 40 17.10 0.9

SSE 25.36 303 eP 40 38.00 20.8X
LAT 25.43 177 ePd 40 18.16 0.2
PMG 28.18 177 eP 40 42.00 -0.8
OIS 39.70 189 iPd 42 21.60 0.0

ASPA 43.90 196 iPd 42 56.80 0.9
0.4s 51.00nm 5.5mb
DZM 45.44 153 iPc 43 08.90 0.7

BRS 46.52 172 iPc 43 16.80 0.3
i 43 45.00
MBL 47.28 214 eP 43 23.50 0.9

WARB 48.56 203 eP 43 33.20 0.8
0.4s 21.00nm 5.2mb
STK 50.67 185 iPc 43 47.60 -0.8

0.4s 3.50nm 4.4mb
NANU 50.77 217 eP 44 03.00 13.7X
FORR 52.34 199 iPc 44 01.80 0.9

MEKA 52.45 211 eP 44 01.80 -0.1
COOL 54.92 206 eP 44 19.70 -0.1
ANM 55.94 23 eP 44 27.40 0.6

TOO 56.19 180 eP 44 29.00 0.2
BAL 56.66 210 eP 44 32.30 0.0
MUN 58.04 210 eP 44 42.00 0.2

0.8s 24.00nm 5.2mb
SVW 58.55 29 eP 44 46.00 0.8
PDB 58.82 31 eP 44 43.70 -3.3X

RKG 59.43 208 eP 44 55.50 4.1X
SLKM 60.93 31 eP 44 59.80 -1.6
IMA 61.02 24 eP 45 02.80 0.7

0.7s 4.60nm 4.5mb
PMR 61.69 29 eP 45 05.80 -0.6
0.9s 16.20nm 5.0mb

BRW 62.00 18 eP 45 09.30 1.0
FBA 63.04 26 eP 45 14.90 -0.4
KLU 63.18 30 eP 45 16.60 0.2

CNZ 64.14 155 P 45 23.60 0.7
NGZ 64.15 155 P 45 23.40 0.4
NOZ 64.70 153 P 45 25.40 -0.9

BALM 64.82 31 eP 45 26.70 -0.4
KIW 65.32 156 P 45 29.60 -0.7
MNG 65.33 156 P 45 29.50 -0.9

e 45 59.50
TCW 65.38 157 P 45 30.20 -0.5
MRW 65.56 156 P 45 30.80 -1.0

CAW 65.59 156 P 45 31.30 -0.7
WEL 65.63 156 P 45 31.00 -1.2
PGZ 65.64 155 P 45 31.80 -0.5

WDW 65.70 156 P 45 32.00 -0.7
MTW 65.80 156 P 45 32.80 -0.6
MOW 65.93 156 P 45 34.00 -0.2

BLW 65.97 156 P 45 33.90 -0.6
LTZ 66.04 159 P 45 34.10 -0.8
INK 69.12 23 eP 45 54.00 0.3

YKA 77.73 28 eP 46 43.70 0.0
0.6s 12.90nm 4.8mb
PNT 78.77 42 eP 46 51.00 1.2

KEV 81.77 342 eP 47 06.00 0.8
SOD 83.21 340 iP 47 13.70 1.1
KAF 86.28 336 iP 47 27.30 -0.8

0.3s 1.40nm 4.3mb

esP 47 29.10
FFC 86.83 33 iPd 47 32.20 1.3
0.7s 17.00nm 5.1mb

NUR 87.86 335 eP 47 26.00 -9.7X
ALO 93.02 52 eP 48 02.00 1.5
1.0s 2.75nm 4.4mb

ZOBO 147.54 91 PKP 54 31.00 2.1
LPB 147.60 91 PKP 54 33.00 4.1X
SIV 154.16 88 PKP 54 37.00 -1.1

S.D. = 1.0 on 62 of 68 obs.

APR 27, 1991 18h 21m 08.85±0.15s
60.799 N ± 3.3km 166.880 E ± 2.4km
DEPTH = 33.0km (normal)

5.5mb (82 obs.) 5.0Msz (18 obs.)
EASTERN SIBERIA (671)

Mo=1.0+10**17 Nm (PPT).
CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
L.P.B.: 175, 27C

Centroid Location:
Origin Time 18:21: 7.0 0.5

Lat 61.03N 0.06 Lon 167.65E 0.14
Dep 15.0 FLX Half-duration 1.6

Moment Tensor; Scale 10**16 Nm
Mrr= 5.36 0.42 Mtt=-2.58 0.56

Mff=-2.78 0.44 Mrt=-2.22 2.05
Mrf= 5.47 1.71 Mtf=-6.90 0.57

Principal Axes:
T Vol= 10.39 Plg=48 Azm=232

N -0.40 40 32
P -9.99 10 131

Best Double Couple: Mo=1.0+10**17
NP1: Strike=258 Dip=49 Slip= 148

NP2: 11 66 45

SMY 9.00 151 e(P) 23 16.00 -3.4X
ADK 12.73 127 P 24 08.00 -2.0
0.8s 62.07nm 5.8mb

ANM 13.23 61 eP 24 16.50 -0.1
TTA 17.47 67 eP 25 12.00 0.7
1.4s 159.09nm 5.0mb

YAK 17.67 290 eP 25 14.80 1.1
ePP 25 29.00
iPPP 25 38.00

eS 28 29.00
eSS 28 53.00
ePcP 30 05.00

eScP 33 05.00
ePcS 33 21.00
eScS 33 25.00

ePSP 37 51.00
BRW 17.77 39 eP 25 14.70 -0.1
SDN 17.97 93 P 25 17.70 0.4

SVW 18.05 73 eP 25 19.60 1.2
IMA 18.16 56 P 25 20.10 0.2
1.0s 57.50nm 4.7mb

PDB 19.13 76 P 25 30.00 -1.5
FBA 20.72 59 eP 25 47.80 -0.7
1.0s 113.75nm 5.2mb

PMR 20.91 69 e(P) 25 49.30 -1.1
1.1s 50.50nm 4.8mb

ASAJ 22.08 232 eP 26 06.00 3.7X
TOA 22.10 66 ePc 26 03.10 0.6
KUSJ 22.19 227 eP 26 04.90 1.6

KLU 22.41 67 P 26 04.80 -0.7
HOOJ 23.33 228 eP 26 14.80 0.3
MRRJ 24.13 232 eP 26 24.60 2.4

INK 25.67 48 eP 26 36.50 -0.3
0.7s 62.00nm 5.3mb
OFUJ 26.81 227 P 26 47.90 0.4

MDJ 27.30 251 eP 26 50.50 -1.4
Z 13s 8.00um 5.5MszX
N 16s 8.20um

E 14s 7.40um
PP 27 43.00
eS 31 35.00

YAMJ 28.21 229 eP 27 00.20 0.0
NIJ 29.42 229 P 27 10.90 -0.2
CNZ 29.85 254 Pc 27 14.00 -0.9

1.0s 20.00nm 4.9mb
Z 15s 14.00um 5.7MszX
N 15s 5.50um

E 15s 5.00um
PP 27 24.00
eS 32 11.00

KAKJ 29.91 227 P 27 19.50 4.0X

MAT 30.33 230 iPc 27 18.80 -0.4
1.4s 97.67nm 5.4mb
Z 20s 2.84um 4.9Msz

eS 32 18.00
MTMJ 30.44 231 P 27 20.30 0.0
CHJJ 30.47 228 P 27 20.30 -0.2

IIDJ 31.38 229 P 27 28.50 0.0
TSRJ 32.06 232 P 27 34.40 0.0
SNY 32.25 254 iPc 27 36.00 0.0

1.6s 100.00nm 5.5mb
Z 18s 4.50um 5.2Msz
N 14s 2.60um

E 13s 3.60um
PP 27 43.20
SP 27 47.80

PP 28 50.00
iS 32 51.00
SS 32 56.00

IRK 34.27 284 eP 27 53.20 -0.3
e 27 54.80
e 27 59.00

e 28 10.00
e 28 19.00
e 28 43.00

e 29 07.00
eS 33 24.00
e 33 40.00

e 34 17.80
e 35 28.00
e 37 00.00

YKA 35.19 52 eP 28 00.00 -1.2
0.8s 17.90nm 5.0mb
DL2 35.46 253 eP 28 04.50 0.7

Z 14s 2.90um 5.2MszX
N 16s 5.10um
E 16s 5.70um

S 33 38.50
BJI 37.17 260 eP 28 18.00 -0.1
1.2s 120.00nm 5.6mb

N 13s 2.91um
E 13s 3.70um
ePP 29 44.00

eS 34 04.00
HHC 38.78 265 P 28 32.30 0.5
Z 14s 4.30um 5.4MszX

N 10s 2.20um
E 11s 5.10um
PP 28 39.00

SS 34 40.00
BTO 39.73 266 P 28 40.00 0.3
N 12s 2.80um

E 12s 3.70um
ePP 30 19.00
S 34 44.00

TIA 39.75 255 eP 28 40.20 0.4
Z 20s 2.60um 5.1Msz
N 14s 3.50um

E 14s 2.80um
S 34 45.50
SS 35 02.00

PGC 40.07 75 eP 28 44.00 1.8
TII 40.80 261 eP 28 49.40 1.0
Z 14s 3.80um 5.4MszX

N 13s 3.80um
PNT 41.40 72 ePd 28 54.00 0.8
0.9s 33.00nm 5.1mb

EDM 41.52 63 iPd 28 55.00 0.9
SSE 42.12 246 Pc 29 00.00 0.8
1.0s 25.00nm 4.9mb

Z 20s 2.00um 5.0Msz
N 16s 1.50um
E 16s 3.10um

eS 35 14.00
ScS 38 50.00
LON 42.20 76 P 29 01.00 1.2

NJ2 42.37 250 Pc 29 01.50 0.2
6.0s 400.00nm 5.3mb X
Z 14s 4.20um 5.5MszX

N 13s 6.20um
E 13s 2.80um
S 35 24.00

DAG 42.64 2 iPd 29 02.50 -0.4
1.0s 43.00nm 5.1mb
NEW 43.31 71 P 29 09.00 0.2

1.2s 29.36nm 4.9mb
SES 44.53 65 eP 29 19.00 0.3
1.6s 209.00nm 5.7mb

FFC	45.23	55 ePc	29 23.60	-0.6	SCH	57.15	34 ePc	30 52.40	-1.7	N	13s	2.00um	
	1.2s	66.00nm		5.4mb		0.9s	80.00nm		5.8mb	E	12s	0.50um	
XAN	45.44	261 P	29 26.00	-0.1	UPP	57.34	342 iP	30 53.70	-1.6				32 03.70
N	13s	3.20um			HFS	57.63	344 eP	30 55.50	-1.9	RSCP	67.38	57 eP	32 01.00 -1.7
E	13s	3.60um				0.8s	30.70nm		5.4mb	ENN	67.74	347 iP	32 04.30 -0.3
GTA	45.64	274 Pc	29 28.00	0.2	Z	18s	1.15um		5.0Msz		1.2s	97.00nm	5.8mb
	1.2s	50.00nm		5.3mb			e	30 58.40		UCC	67.87	348 P	32 06.00 0.6
N	11s	5.50um					e	31 00.20		MEM	67.88	347 iPc	32 05.30 -0.2
			29 34.20				ePcP	31 48.90		BLA	68.06	53 eP	32 05.70 -1.2
			36 13.00				LR	51 21.00			1.0s	30.00nm	5.3mb
WHN	45.73	253 Pc	29 28.70	0.4	QIZ	57.66	250 P	30 57.80	-0.3	GRF	68.13	343 ePc	32 07.40 0.3
	5.0s	400.00nm		5.6mb X	N	16s	1.80um				1.4s	88.00nm	5.7mb
Z	15s	2.40um		5.3MszX	E	16s	3.20um			Z	21s	0.40um	4.6Msz
N	15s	2.70um			LSA	57.67	274 P	30 57.80	-0.9			e	32 09.10
E	15s	3.20um			OBN	57.93	329 iP	30 58.50	-1.0	SNF	68.16	348 P	32 08.60 1.4
			29 37.20			1.2s	*****nm		8.5mb X	KHC	68.32	341 iP	32 08.00 -0.3
			36 15.00		Z	18s	7.20um		5.8Msz		1.3s	19.00nm	5.0mb
LZH	46.28	267 iPc	29 33.50	0.7	N	18s	4.80um			Z	13s	1.30um	5.3MszX
	1.4s	130.00nm		5.7mb	E	16s	2.40um			N	12s	0.90um	
Z	18s	3.09um		5.3Msz			iPcP	31 47.00		E	12s	0.70um	
N	14s	5.79um					iPP	33 06.00		ABH	68.42	346 eP	32 08.93 0.0
E	14s	6.43um					ePPP	34 43.00		DOU	68.54	348 P	32 09.00 -0.6
			29 44.00				eS	39 00.00		ZST	68.64	339 iP	32 11.10 0.8
			29 48.00				iSS	42 48.00		QUE	68.73	294 eP	32 11.30 0.0
			31 22.00				eSSS	45 00.00			1.1s	30.38nm	5.3mb
			36 16.00		ANMO	58.64	74 P	31 04.40	-0.7	SRO	68.79	338 eP	32 10.60 -0.6
			36 33.00			1.0s	31.25nm		5.4mb	VR1	68.87	331 eP	32 12.00 0.3
KEV	46.65	342 iP	29 36.00	0.9	ALQ	58.64	74 eP	31 04.00	-1.1			e	46 56.50
		e	36 24.00			1.0s	10.00nm		4.9mb	BUD	68.98	337 e(P)	32 13.00 0.7
GDH	47.06	18 eP	29 44.00	5.6X	Z	20s	0.71um		4.8Msz	MLR	69.41	332 ePc	32 15.00 -0.2
	0.5s	21.13nm		5.4mb	GAR	59.83	296 eP	31 12.00	-1.2			e	46 47.00
SXM	47.59	69 eP	29 42.80	-0.4			iPP	33 03.00		BHG	69.80	342 eP	32 17.90 0.5
WMO	48.09	287 P	29 47.20	0.2			eS	38 41.00		CMP	69.83	332 eP	32 21.00 3.4X
	1.5s	50.00nm		5.3mb			eSSS	44 00.00		CDF	69.90	346 iPc	32 17.60 -0.5
Z	16s	2.25um		5.2MszX	GUN	61.73	277 P	31 25.30	-1.1		1.0s	42.00nm	5.5mb
QZH	48.57	245 eP	29 48.00	-2.7		0.6s	56.00nm		5.8mb	FLN	70		

LSD	72.82	345	P	32	36.04	0.2	PDCR	128.19	33	(PKP)	40	09.00	-4.1X		e	45	51.00			
LPG	72.83	346	iPc	32	36.30	0.3	SLR	135.08	302	ePKP	40	26.00	-0.1		e	45	55.50			
	1.1s	64.70nm			5.5mb		MAW	148.26	225	ePKP	40	51.80	4.1X		i	45	58.20			
BBTK	72.95	325	iPd	32	38.00	1.5		1.3s	54.00nm						Sg	46	39.50			
PYM	73.00	348	P	32	37.99	1.3	SPA	150.63	180	iPKPc	40	56.70	5.1X	PSZ	3.47	66	iPn	45	49.10	0.6
RSP	73.11	345	P	32	36.86	-0.5		1.0s	26.00nm					ARV	3.47	208	P	45	49.00	0.5
YLV	73.20	327	eP	32	38.20	0.3		S.D. = 0.9	on 227 of 242 obs.				OSS	3.48	273	ePd	45	50.60	1.9	
BOB	73.20	343	P	32	38.20	0.4							HVAR	3.52	165	iPn	45	50.10	0.9	
BNI	73.28	345	P	32	41.90	3.5X		APR 27, 1991	18h 44m 53.33±0.23s				SFI	3.56	223	P	45	49.80	0.1	
RZN	73.30	331	iP	32	39.00	0.4		46.585 N ± 2.5km	15.190 E ± 2.3km				PGD	3.65	223	P	45	51.00	-0.3	
SSB	73.31	347	P	32	38.24	-0.2		DEPTH = 10.0km	(geophysicist)				CRE	3.74	219	P	45	53.20	0.7	
RRL	73.40	345	P	32	39.53	0.3		3.9mb (5 obs.)					VDL	3.95	271	iPd	45	57.00	1.5	
LBL	73.49	348	P	32	41.03	1.7		YUGOSLAVIA	(383)				FIR	3.95	226	e(Pn)	46	01.00	5.8X	
KKB	73.51	333	eP	32	40.00	0.4		ML 4.2 (FUR), 4.0 (TTG), MD 3.9								i(Sn)	46	42.00		
PCP	73.54	344	P	32	40.25	0.5		(TRI). Felt (VI) in the					MME	3.97	235	P	45	56.10	0.4	
MME	73.58	342	P	32	41.00	0.8		Vuzenico-Muta area. Felt					BEO	4.09	114	ePn	46	07.00	9.8X	
RJF	73.59	349	eP	32	39.80	-0.2		throughout northern Yugoslavia.								iPg	46	19.00		
	1.0s	40.00nm			5.4mb			Also felt in southern Austria.								iSg	47	14.50		
Z	19s	0.73um			5.0msz								GRF	4.09	321	ePnc	45	57.00	-0.2	
MMB	73.62	332	eP	32	41.00	0.7	LJU	0.71	220	iPg	45	07.60	0.3				ePg	46	10.70	
SFI	73.67	341	P	32	41.50	1.1										e(Sn)	46	55.00		
BDI	73.72	342	P	32	40.60	-0.3										eSg	47	03.00		
PGD	73.73	342	P	32	42.20	1.1								BDI	4.11	234	P	45	58.70	1.2
PZZ	73.77	345	P	32	39.43	-1.8								LLS	4.27	276	iPd	46	01.00	1.0
ROB	73.88	344	P	32	40.45	-1.3								KSP	4.32	9	iPn	46	00.00	-0.6
ARV	73.91	341	P	32	42.30	0.4	PTJ	0.87	142	iPg	45	11.50	1.4				iPg	46	13.50	
CAF	73.91	349	iPc	32	42.30	0.4											iS	47	11.00	
	1.0s	71.00nm			5.6mb		CEY	1.00	212	iPg	45	13.00	0.7	HOF	4.33	331	iPnc	46	00.20	-0.5
STV	74.00	345	P	32	39.94	-2.5								BRY	4.39	146	iPnd	46	02.10	0.4
ENR	74.00	345	P	32	40.25	-2.2											iSn	46	49.78	
LFF	74.02	350	iPc	32	42.70	0.3								BOB	4.42	248	P	46	03.30	1.3
	1.0s	84.00nm			5.7mb									PLE	4.42	136	iPnc	46	02.32	0.3
VAY	74.14	333	eP	32	44.00	0.8											iSn	46	51.65	
HYB	74.16	277	iPc	32	42.70	-1.0	VOY	1.06	239	iPg	45	13.40	0.1	AQU	4.42	197	P	46	02.00	0.0
	1.0s	55.00nm			5.5mb		VBV	1.08	178	iPg	45	14.50	0.8	MNS	4.57	204	P	46	03.70	-0.4
LPO	74.23	349	iPc	32	43.90	0.2								NKY	4.65	143	iPnd	46	05.10	-0.2
	1.0s	72.00nm			5.6mb												iSn	46	56.75	
DST	74.29	328	eP	32	43.00	-1.2	TRI	1.32	229	iPg	45	17.70	0.0	MOX	4.70	331	iPn	46	05.30	-0.7
SBF	74.36	345	eP	32	44.50	0.0											iPg	46	22.00	
	0.9s	55.70nm			5.6mb		KBA	1.36	292	iPg	45	18.50	0.0				iSn	46	58.50	
IPM	74.39	251	ePd	32	46.50	1.5	RIY	1.36	205	iPg	45	19.20	0.9				iSg	47	21.00	
LRG	74.89	345	eP	32	47.70	0.2								SLE	4.72	287	iPd	46	05.40	-0.8
	22s	1.13um			5.1msz		KMR	1.64	334	iPn	45	23.60	1.3	ZLA	4.74	283	ePd	46	06.30	-0.2
LMR	74.99	345	eP	32	48.00	-0.1								HCY	4.77	149	iPnc	46	07.80	0.9
	1.2s	50.60nm			5.4mb												iSn	47	00.23	
POO	75.48	282	iPd	32	49.70	-1.6	FVI	1.66	271	Pc	45	24.20	1.6	CLL	4.94	344	iPnc	46	08.30	-1.0
EPF	75.95	350	iPc	32	53.40	-0.2														
	1.2s	68.45nm			5.5mb		VKA	1.85	24	iPnc	45	27.00	1.7		0.5s	15.00nm				
MLS	75.95	349	P	32	54.41	0.8											iPg	46	27.40	
EMON	76.02	356	eP	32	54.30	0.3	BHG	1.94	307	iPn	45	28.60	1.9	DUI	4.95	186	P	46	09.60	0.0
STS	76.61	357	eP	32	57.50	0.3	VVI	2.01	254	P	45	30.20	2.5X	SDI	4.98	192	P	46	10.00	0.1
PSI	77.02	252	eP	33	01.40	1.5	ZST	2.07	38	iPnc	45	29.30	0.8	IYA	5.00	136	iPnc	46	10.32	0.0
ERUA	77.05	355	eP	33	01.00	1.3											iSn	47	05.00	
GBA	77.98	276	Pd	33	04.60	-0.5														
	1.1s	42.50nm			5.4mb									BDV	5.03	148	iPnd	46	11.12	0.6
EROO	78.13	350	eP	33	06.00	0.3											iSn	47	05.80	
HRI	78.14	320	eP	33	07.00	1.0								MMK	5.03	267	ePc	46	11.30	0.4
ETOR	78.33	351	eP	33	07.00	0.1								FEL	5.06	287	eP	46	09.72	-1.4
GUD	78.65	353	iPd	33	09.00	0.3								TTG	5.07	144	iPnc	46	11.22	0.1
ZNT	79.32	320	eP	33	12.00	-0.3											iSn	47	06.95	
EPLA	79.33	355	iPd	33	13.00	0.7	UZD	2.34	89	iPn	45	31.40	-1.0	PCP	5.09	249	P	46	12.04	0.5
TOL	79.40	353	iPd	33	14.00	1.3	SCE	2.43	282	iPnd	45	36.20	2.3X	RMP	5.10	201	P	46	10.00	-1.5
	1.1s	126.58nm			5.8mb		SRO	2.46	59	iPnc	45	34.00	-0.1	ORO	5.11	262	P	46	11.50	-0.3
		eS	43	15.00										PVY	5.25	138	iPnd	46	13.53	-0.3
		eSS	52	08.00													iSn	47	11.73	
ECHE	79.47	350	eP	33	14.00	0.9	CTI	2.51	259	P	45	35.70	0.8	DIX	5.41	267	iPd	46	17.00	0.7
TRT	80.33	235	ePc	33	10.50	-7.4X	WTTA	2.53	287	ePn	45	37.00	1.7	FIN	5.46	247	P	46	16.24	-0.5
EVIA	80.53	352	eP	33	20.00	1.2								ULC	5.46	146	iPnd	46	16.92	0.2
KOD	80.86	275	eP	33	21.00	-0.2											iSn	47	17.60	
PRNI	81.08	319	eP	33	23.00	1.3	WATA	2.59	288	iPnd	45	37.80	1.7	ROB	5.64	249	P	46	19.73	0.5
EHOR	81.52	354	eP	33	25.00	1.1								CDF	5.67	292	Pn	46	17.40	-2.3
EVAL	81.83	355	eP	33	26.00	0.5	KHC	2.77	338	iPn	45	38.90	0.3				Pg	46	41.00	
ECOG	81.96	352	eP	33	27.70	1.4											Sg	47	53.00	
AFC	81.98	352	eP	33	27.20	0.7								LSD	5.71	262	P	46	21.16	0.7
EGUA	82.40	352	eP	33	29.80	1.3								RSP	5.72	258	P	46	18.49	-2.0
MAL	82.56	353	iPd	33	30.00	0.7	BUD	2.77	70	ePn	45	37.90	-0.7	EMS	5.74	268	iPd	46	21.00	0.1
DZM	82.57	180	iPd	33	31.10	1.6	SOTA	2.80	285	iPnd	45	40.90	1.8	TNS	5.78	312	ePc	46	20.80	-0.4
EJIF	82.90	354	eP	33	33.00	1.9											e	47	20.90	
QIS	84.02	206	eP	33	36.00	-0.8														
IFR	85.00	353	iP	33	46.00	0.0								BSF	5.86	285	Pn	46	20.60	-1.7
ASPA	88.32	210	eP	33	58.00	0.1	OGA	2.88	277	iPnd	45	42.20	1.9				Pg	46	25.10	
	0.8s	8.50nm			5.1mb		MOTA	2.90	287	iPnc	45	41.60	1.1				Sg	47	01.90	
	18s	0.20um			4.6msz									BRT	5.89	165	P	46	20.80	-1.9
STK	94.64	201	eP	34	28.40	1.5	FUR	3.09	302	ePn	45	45.90	2.8X	DOI	5.96	252	P	46	22.10	-1.6
	1.1s	1.20nm																		

27d 18h

PGF	5.99	230	Pn	46 23.40	-0.8
			Sn	47 28.30	
STV	6.01	250	P	46 21.67	-2.8X
PZZ	6.05	253	P	46 21.26	-3.8X
ABH	6.08	306	eP	46 24.94	-0.4
RRL	6.11	257	P	46 24.54	-1.5
SBF	6.12	246	Pn	46 25.10	-0.8
			Sn	47 31.10	
BNI	6.15	259	P	46 27.20	0.8
HAU	6.18	286	Pn	46 24.90	-1.9
			Pg	46 50.80	
			Sn	47 32.30	
			Sg	48 10.70	
RUP	6.27	303	eP	46 28.02	-0.1
SKO	6.43	134	ePn	46 30.50	0.1
LCI	6.56	161	P	46 31.40	-0.8
ORI	6.58	172	P	46 32.00	-0.6
FRF	6.76	247	Pn	46 33.40	-1.6
OHR	6.81	141	ePn	46 37.70	2.0
	0.7s	90.00nm		5.9mb X	
BNS	6.87	313	iPnc	46 37.30	0.8
	1.0s	141.00nm		6.0mb X	
			iSg	48 37.80	
LMR	6.96	245	Pn	46 35.70	-2.1
VTS	6.98	122	iP	46 37.00	-1.2
CMP	6.99	97	ePc	46 43.00	4.7X
LRG	7.00	247	Pn	46 36.00	-2.3
MEM	7.30	307	iP	46 42.70	0.2
ENN	7.42	308	ePn	46 46.00	1.8
VAY	7.48	132	ePn	46 44.40	-0.7
PGB	7.57	119	eP	46 45.00	-1.4
WTS	7.70	318	ePn	46 50.00	1.9
	0.6s	4.00nm		4.8mb	
			e	46 57.50	
			e	48 56.00	
LBF	7.71	277	Pn	46 47.00	-1.3
LOR	7.79	279	Pn	46 48.20	-1.2
SMF	7.82	275	Pn	46 47.10	-2.7X
			Sn	48 14.70	
DOU	7.88	300	iP	46 51.10	0.4
MMB	7.92	126	eP	46 51.00	-0.2
SSF	8.03	278	Pn	46 50.20	-2.6X
AVF	8.14	276	Pn	46 51.40	-2.9X
RZN	8.42	122	iP	47 01.00	2.6X
BGF	8.51	274	Pn	46 56.30	-3.1X
			Sn	48 29.50	
MAF	8.73	272	Pn	46 59.90	-2.7X
TCF	8.97	273	Pn	47 03.30	-2.6X
CAF	9.33	265	Pn	47 08.60	-2.2X
LSF	9.44	273	Pn	47 10.10	-2.3X
LDF	10.54	287	Pn	47 26.60	-0.8
MFF	10.56	276	Pn	47 25.80	-1.9
FLN	10.79	287	Pn	47 29.80	-1.0
GRR	11.01	285	Pn	47 32.70	-1.1
LPF	11.12	283	Pn	47 33.80	-1.5
HFS	13.60	357	eP	48 11.20	2.7X
	0.5s	0.80nm		3.9mb	
NRA0	14.34	353	Pn	48 21.00	2.8X
			Sn	51 29.00	
NB2	14.67	352	P	48 24.80	2.3X
	0.7s	1.20nm		3.6mb	
KAF	16.81	18	eP	48 53.90	3.9X
	0.6s	2.10nm		3.4mb	
			esP	48 56.30	
YKA	64.13	337	eP	55 27.50	-2.0
	1.0s	1.50nm		4.1mb	
S.D. = 1.2 on 108 of 129 obs.					
APR 27, 1991 19h 09m 12.82 ± 0.80s					
11.204 N ± 8.0km 62.004 W ± 8.2km					
DEPTH = 33.0km (normol)					
WINDWARD ISLANDS (95)					
MD 3.2 (TRN).					
TCE	0.56	154	eP	09 23.76	-0.6
			eS	09 33.43	
TRN	0.81	133	eP	09 26.89	-0.9
			eS	09 31.15	
TPP	1.04	148	eP	09 31.78	0.7
			eS	09 46.77	
TBH	1.17	128	eP	09 33.59	0.7
			eS	09 50.26	
TPR	1.20	91	eP	09 33.37	0.0
			eS	09 54.72	
CUM	2.25	251	iP	09 48.50	0.0
FDF	3.61	13	eP	10 07.78	0.0
	0.2s	0.75nm			

S.D. = 0.7 on 7 of 7 obs.					
APR 27, 1991 19h 27m 05.49 ± 0.64s					
5.920 S ± 3.5km 147.041 E ± 4.9km					
DEPTH = 76.3 ± 6.1 km					
5.0mb (18 obs.)					
EAST PAPUA NEW GUINEA REGION (207)					
LAT	0.73	183	iPc	27 21.72	0.4
YYYY	1.12	253	iPd	27 30.40	4.2X
MDG	1.42	298	iPc	27 29.80	-0.2
MNDI	3.37	266	eP	27 53.00	-4.1X
PMG	3.47	178	iPc	27 57.70	-0.5
HNR	13.26	106	eP	30 11.00	-1.0
CTA	14.10	183	iPd	30 26.00	2.9X
	1.2s	100.00nm		5.0mb	
QIS	16.24	206	eP	30 50.00	-0.4
			i	30 53.10	
			i	31 01.00	
			i	34 45.70	
MTN	17.13	245	iPc	31 02.00	0.5
AAI	18.91	276	ePd	31 23.50	0.5
			eS	31 28.10	
KNA	20.41	240	eP	31 38.00	-0.9
	0.4s	52.00nm		5.2mb	
ASPA	21.71	214	iPc	31 52.40	0.5
	0.3s	61.50nm		5.5mb	
			i	32 07.90	
			iS	35 53.10	
			e	40 04.70	
BRS	22.04	166	iPd	31 54.50	-0.7
			i	32 08.00	
			e	32 44.00	
			iS	35 57.00	
DZM	24.69	132	iPc	32 19.80	-1.2
STK	26.33	190	iPc	32 35.70	-0.3
	0.5s	8.90nm		4.6mb	
			e	33 09.30	
WARB	28.02	222	eP	32 52.30	0.8
	0.4s	13.00nm		4.9mb	
ADE	29.91	194	iPc	33 08.30	-0.1
MBL	30.40	237	iPc	33 13.20	0.4
	0.4s	17.00nm		5.1mb	
FORR	30.52	213	iPc	33 13.80	0.1
TOO	31.54	182	eP	33 23.00	0.4
MEKA	34.08	230	eP	33 45.00	0.1
	0.4s	28.00nm		5.5mb	
NANU	34.61	238	iPc	34 00.10	10.7X
	0.3s	14.00nm			
COOL	34.75	221	eP	33 50.80	0.3
TAU	36.84	180	eP	34 09.00	1.1
BAL	37.61	226	eP	34 15.40	0.7
MUN	38.75	224	eP	34 25.00	0.8
RKG	39.46	221	iPc	34 34.00	3.9X
OZH	41.32	319	eP	34 45.00	-0.4
IIDJ	42.07	349	P	34 51.40	0.0
CHJJ	42.42	350	P	34 55.00	0.7
MNG	42.92	148	P	34 58.60	0.3
MAT	43.04	350	(P)	34 59.00	-0.3
			eS	41 17.00	
MTMJ	43.16	349	P	35 00.40	0.0
PGZ	43.35	147	P	35 01.40	-0.3
NIJJ	43.59	351	P	35 04.50	0.8
OIZ	44.24	305	eP	35 09.90	0.6
SSE	44.34	328	Pc	35 10.30	0.5
	1.0s	22.00nm		4.9mb	
Z	20s	0.50um		4.4msz	
			PP	35 26.30	
YAMJ	44.35	352	P	35 10.90	1.0
OFUJ	45.05	354	P	35 16.50	1.1
NJ2	46.34	326	Pc	35 26.00	0.3
IPM	47.12	282	ePd	35 33.50	1.3
WHN	47.90	321	Pc	35 39.00	1.0
			PP	35 54.50	
HOJ	48.19	356	P	35 41.40	1.3
MRRJ	48.42	354	eP	35 42.00	0.2
PSI	48.81	279	ePd	35 49.20	3.9X
KUSJ	48.83	358	eP	35 45.40	0.4
ASAJ	49.96	356	P	35 54.80	1.1
SNY	52.13	338	eP	36 09.20	-0.9
			PP	36 26.80	
KHT	52.25	294	eP	36 11.50	0.1
CN2	53.20	341	eP	36 17.20	-0.8
CHG	53.38	299	eP	36 34.80	15.0X
XAN	53.65	320	iPc	36 20.40	-1.1
BJI	53.85	331	eP	36 21.50	-1.3
	1.0s	9.00nm		4.8mb	

TIY	54.06	326	eP	36	24.00	-0.6
LZH	58.18	319	eP	36	52.50	-1.7
			PP	37	09.00	
			SP	37	25.00	
GTA	62.71	320	P	37	24.20	-0.7
	0.6s	10.00nm			5.0mb	
LSA	64.23	307	P	37	35.00	-0.5
GUN	67.86	303	P	37	57.40	-1.2
	0.4s	16.00nm			5.3mb	
PKI	68.14	303	P	37	58.82	-1.5
KKN	68.32	303	P	37	59.84	-1.4
DMN	68.40	303	P	37	59.86	-2.0
	0.4s	8.00nm			5.0mb	
GKN	68.92	303	P	38	03.52	-1.4
SBA	72.63	176	P	38	28.10	2.0
WMO	72.76	319	eP	38	29.00	1.4
ANM	78.62	19	eP	39	01.50	1.3
SVW	80.14	25	eP	39	08.20	-0.4
	1.0s	28.00nm			5.1mb	
RSO	81.03	26	e(P)	39	02.90	-10.5X
SLKM	82.16	26	eP	39	19.50	0.4
PMR	83.12	26	eP	39	24.00	0.1
	0.8s	11.21nm			4.9mb	
IMA	83.47	21	eP	39	26.30	0.4
	0.7s	3.27nm			4.4mb	
SPA	84.12	180	iPc	39	29.10	-0.1
	0.7s	35.16nm			5.5mb	
		i	39	45.90		
KLU	84.48	26	eP	39	32.60	1.7
TOA	84.61	26	eP	39	32.80	1.2
FBA	85.09	23	eP	39	32.60	-1.3
	0.7s	16.57nm			5.2mb	
BALM	85.92	27	eP	39	38.20	0.0
INK	91.57	21	eP	40	05.00	0.4
YKA	99.08	28	eP	40	38.40	-0.6
	0.8s	1.00nm			4.4mb	
HFS	115.50	336	ePKP	45	39.70	-0.3
	0.4s	0.40nm				
NB2	115.90	338	PKP	45	39.70	-1.1
	0.5s	0.40nm				
LPB	138.70	123	PKP	46	06.00	-20.0X
ZOBO	138.81	123	PKP	46	19.00	-7.4X
SIV	144.67	128	PKPc	46	34.00	-2.0
PPD	146.91	148	ePKP	46	40.20	0.6
VAO	148.16	155	ePKP	46	45.40	3.8X
BMA	149.52	159	ePKP	46	49.30	5.6X
KIC	151.94	272	PKP	46	54.00	6.5X
LKO	152.65	279	PKP	46	55.00	6.5X
S.D. = 0.9 on 73 of 87 obs.						
APR 27, 1991 19h 41m 04.65± 4.38s						
40.639 N ±17.7km 16.112 E ±41.7km						
DEPTH = 10.0km (geophysicist)						
SOUTHERN ITALY (390)						
ORI	0.63	156	P	41	16.80	-0.5
			eSg	41	29.90	
BAI	0.75	50	P	41	19.00	-0.3
			eSg	41	32.00	
BRT	0.86	74	P	41	21.60	0.3
			eSg	41	36.70	
TDS	0.99	170	P	41	23.90	0.4
S.D. = 0.8 on 4 of 4 obs.						
APR 27, 1991 19h 50m 11.89± 0.64s						
40.751 N ± 7.3km 15.782 E ± 6.2km						
DEPTH = 10.0km (geophysicist)						
SOUTHERN ITALY (390)						
ORI	0.85	143	P	50	27.60	-0.8
			eSg	50	39.30	
BAI	0.90	65	P	50	30.00	0.9
			eSg	50	43.00	
BRT	1.09	83	P	50	31.90	-0.4
			eSg	50	47.30	
TDS	1.17	159	P	50	34.50	0.8
DUI	1.35	313	P	50	36.30	-0.5
LCI	1.71	103	P	50	46.10	4.3X
SDI	1.76	303	P	50	43.40	0.7
HVAR	2.48	11	i(Pn)	50	58.50	5.6X
ARV	3.46	323	P	51	06.60	-0.3
OHR	3.82	83	ePn	51	11.80	-0.3
VBY	4.77	356	ePn	52	19.40	54.0X
			eSn	53	06.00	
S.D. = 0.8 on 8 of 11 obs.						
APR 27, 1991 19h 54m 30.27± 0.35s						

27d 19h

43.158 N \pm 4.3km 17.505 E \pm 3.7km						NJ2 23.82 344 Pc 13 37.60 0.4			GKN 43.56 301 P 16 28.06 -0.7		
DEPTH = 10.0km (geophysicist)						0.7s 100.00nm 5.4mb			RKG 43.94 191 iPd 16 37.00 5.5X		
YUGOSLAVIA (383)						Z 18s 0.40um 3.9msz			ADE 45.41 166 iPc 16 43.30 -0.1		
ML 3.4 (TTG), 3.2 (KBA), 3.1 (ZAG).						WHN 24.07 334 eP 13 40.50 1.0			IRK 46.60 341 eP 17 04.80 12.2X		
						N 10s 0.80um			HYB 47.23 285 iPc 16 59.00 1.0		
HVAR	0.77	272	iPg	54 45.10	-0.2	KGM	24.09 254 ePc	13 44.70 4.8X	WMO 48.19 323 P 17 04.50 -0.7		
BRY	0.80	108	iPg	54 57.20		KNA	24.88 175 eP	13 46.60 -0.8	GBA 48.19 280 Pc 17 06.00 0.5		
			iSg	54 44.67	-1.3	LOE	25.39 291 eP	13 54.00 1.7	KOD 48.26 276 eP 17 08.00 1.5		
			iSg	54 57.59		IPM	25.65 261 ePd	13 57.70 2.9X	TOO 49.81 160 eP 17 18.00 0.4		
HCY	1.02	134	iPg	54 48.72	-0.8		1.0s 117.70nm	5.4mb	DZM 50.02 129 iPd 17 19.30 -0.3		
			iSg	55 05.17		SNG	25.65 267 eP	13 58.60 3.9X	NDI 50.05 300 iPc 17 17.80 -1.9		
NKY	1.15	107	iPg	54 51.60	-0.2	NST	26.49 287 eP	14 05.00 2.6	POO 51.76 286 iPc 17 30.70 -2.1		
			iSg	55 09.09		KMI	27.58 308 Pc	14 13.50 0.9	YAK 52.79 2 iPc 17 39.30 -0.4		
BDV	1.31	131	iPg	54 53.99	-0.5	KHT	27.80 284 eP	14 16.00 1.6	e 17 47.00		
			iSg	55 15.00		PSI	28.12 258 ePc	14 22.50 5.2X	eS 25 02.00		
PLE	1.39	82	iPg	54 55.90	0.1	CHG	28.32 293 eP	14 19.10 0.0	e 25 19.00		
			iSg	55 16.17		MAT	29.25 20 (P)	14 25.00 -2.3	QUE 59.13 300 eP 18 24.90 -1.1		
TTG	1.48	119	iPg	54 58.42	1.5		0.9s 5.04nm	4.2mb X	SVW 76.18 29 eP 20 14.10 2.0		
			iSg	55 19.40		XAN	29.53 329 P	14 26.80 -3.0X	TAB 76.65 307 eP 20 15.00 -0.3		
ULC	1.76	132	iPnd	55 01.64	0.7	DL2	29.91 352 eP	14 33.50 0.4	BRW 77.13 19 eP 20 18.40 1.3		
			iSn	55 27.22		CD2	30.24 319 eP	14 36.00 -0.2	IMA 77.55 24 eP 20 21.30 1.6		
IVA	1.78	98	iPnc	55 02.89	1.6	MBL	30.85 192 eP	14 40.80 -0.7	PMR 79.33 29 eP 20 29.90 0.6		
			iSn	55 25.30		TIY	31.10 338 Pd	14 43.00 -0.7	TOA 80.72 28 eP 20 38.60 1.8		
PVY	1.90	106	iPnc	55 03.62	0.5		Z 20s 0.63um	4.3msz	OBN 82.46 325 iP 20 45.50 -0.4		
			iSn	55 30.00		BJI	32.07 345 eP	14 51.00 -1.0	Z 1.0s *****nm 8.3mb X		
BAI	2.09	193	P	55 04.50	-1.3		N 16s 0.72um		N 20s 0.30um 4.9msz		
BRT	2.29	186	P	55 07.70	-1.0	QIS	32.26 156 iPc	14 52.00 -1.9	E 20s 0.40um		
BEO	2.70	51	ePn	55 14.50	0.0		0.7s 43.00nm	5.4mb	ePcP 20 53.80		
			eSg	55 56.00		SNY	32.61 356 iPc	14 51.80 -4.9X	LO 52 06.00		
DUI	2.71	237	P	55 14.50	-0.2		1.0s 100.00nm	5.6mb	KEV 84.71 340 iP 20 57.80 0.7		
LCI	2.84	173	P	55 17.80	1.3		Z 18s 1.00um	4.6msz	INK 85.22 22 eP 21 01.00 1.3		
VBY	2.85	326	ePn	55 16.90	0.3		E 12s 0.30um		SOD 85.36 338 iP 21 00.00 -0.4		
			iSn	55 53.00			S 20 11.00		KAF 86.67 332 iP 21 06.40 -0.5		
ZAG	2.87	338	ePn	55 15.60	-1.3				0.9s 10.30nm 5.0mb		
			iSg	55 59.00		NANU	33.32 199 eP	15 13.00 10.0X	esP 21 07.40		
PTJ	2.96	339	iPnc	55 17.30	-0.9	ASPA	33.45 168 iPc	15 02.20 -2.1	NUR 87.83 331 iP 21 12.10 -0.4		
			eSn	55 59.20			0.6s 16.90nm	5.1mb	e 21 24.00		
SDI	3.09	243	P	55 20.40	0.3		Z 22s 0.90um	4.4msz	UPP 91.37 331 iP 21 30.00 0.9		
RIY	3.13	315	ePn	55 22.90	2.4		iPP 16 19.90		DAG 91.86 352 iPc 21 31.00 -0.2		
OHR	3.19	129	ePn	55 52.50	31.0X		eS 20 18.00		HFS 93.09 332 eP 21 35.70 -1.4		
TDS	3.60	194	P	55 26.50	-0.8	LZH	33.77 326 eP	15 07.50 0.4	1.3s 16.30nm 5.3mb		
MNS	3.64	259	P	55 28.60	0.8		1.2s 13.00nm	4.7mb	Z 17s 0.13um 4.5msz X		
TRI	3.70	315	ePn	55 38.40	9.7X		Z 17s 0.97um	4.6msz X	e 21 40.20		
			eSn	56 29.70			E 15s 0.48um		e 21 42.70		
VOY	3.86	319	ePn	55 30.10	-1.0				e 21 47.90		
			eSn	56 16.40		HHC	34.19 340 P	15 10.00 -0.6	LR 01 19.00		
			eSg	56 35.80		CN2	34.50 359 Pc	15 12.50 -0.5	NB2 93.81 334 P 21 39.30 -1.2		
CRE	4.07	279	P	55 36.00	1.9		1.0s 10.00nm	4.7mb	1.0s 4.30nm 4.8mb		
FVI	4.80	317	P	55 44.00	-0.3		Z 16s 1.30um	4.8msz X	YKA 94.67 24 eP 21 44.40 0.1		
KBA	4.90	325	iPnc	55 45.30	-0.6		N 16s 0.30um		0.9s 5.50nm 5.0mb		
			iSn	56 41.30			E 16s 0.10um		SPA 99.12 180 iPd 22 32.90 28.4X		
			i	56 44.50			ePP 15 25.00		1.0s 22.50nm		
CTI	5.08	307	P	55 47.50	-0.9				LKO 128.76 290 PKP 27 32.58 0.5		
S.D. = 1.1 on 27 of 29 obs.						CTA	35.01 146 iPc	15 16.90 -0.8	KIC 128.97 286 PKP 27 33.20 0.7		
							0.8s 11.94nm	4.9mb	TACH 150.85 149 ePKP 28 17.50 6.8X		
APR 27, 1991 20h 08m 28.58 \pm 1.29s						WARB	35.15 180 iPd	15 19.00 0.2	PCH 151.09 150 ePKPd 28 18.00 6.8X		
9.183 N \pm 4.1km 126.456 E \pm 6.7km							0.4s 20.00nm	5.4mb	LPB 164.05 119 PKP 28 27.00 -0.6		
DEPTH = 58.2 \pm 11.8 km						MDJ	35.41 4 eP	15 21.50 0.7	ZOB0 164.14 118 PKP 28 29.70 1.8		
5.2mb (28 obs.) 4.4msz (6 obs.)							PP 15 26.50		SIV 170.01 133 PKP 28 32.60 1.1		
MINDANAO, PHILIPPINE ISLANDS (259)							SP 15 30.00		S.D. = 1.1 on 75 of 93 obs.		
DAV	2.26	203	iPc-	09 06.50	2.3	MRRJ	35.51 19 eP	15 22.20 0.5	? APR 27, 1991 20h 12m 23.38 \pm 1.03s		
OCP	7.55	316	eP	09 54.00	-24.6X	HOOJ	36.23 21 eP	15 28.90 1.2	35.507 N \pm 12.6km 35.457 E \pm 11.3km		
BAG	9.19	322	eP	10 40.80	-0.5	MEKA	36.40 192 eP	15 29.30 -0.1	DEPTH = 10.0km (geophysicist)		
TSM	9.67	240	ePc	10 54.20	6.5X	KUSJ	37.37 22 eP	15 39.70 2.4X	JORDAN - SYRIA REGION (374)		
KKM	10.62	254	ePc	11 04.90	4.2X	ASAJ	37.54 19 P	15 39.40 0.7	ML 3.5 (BHL).		
OZH	17.37	335	eP	12 27.00	-1.6	GTA	38.38 326 P	15 45.00 -1.0	BHL 1.61 174 Pg 12 52.00 0.0		
							0.8s 10.00nm	4.8mb	Sg 13 16.00		
			Z 16s 1.90um				E 16s 0.90um		CSS 1.82 253 eP 12 54.20 -0.8		
			N 16s 1.30um						GAZ 2.18 40 ePn 13 00.20 0.0		
			eS 15 38.00						PPCY 2.62 257 eP 13 07.30 0.8		
			SS 15 48.00						S.D. = 1.2 on 4 of 4 obs.		
			SS 15 55.00						APR 27, 1991 20h 29m 44.18 \pm 0.41s		
GZH	18.68	319	eP	12 43.00	-1.6	LSA	38.81 307 P	15 50.80 0.6	38.104 N \pm 6.7km 69.791 E \pm 6.9km		
			Z 19s 2.30um		COOL	40.16 187 iPd	16 00.70 0.0	DEPTH = 33.0km (normal)			
OIZ	18.83	303	eP	12 41.00	-5.6X	BAL	40.65 193 eP	16 04.80 0.0	4.4mb (6 obs.)		
			N 15s 0.70um		MUN	42.08 193 eP	16 17.00 0.5	TAJIK SSR (715)			
			E 15s 0.90um			0.8s 125.00nm	5.7mb				
			eS 16 07.00		GUN	42.48 302 P	16 20.16 -0.1				
TRT	21.70	220	ePc	13 10.10	-6.4X		0.8s 101.00nm	5.7mb			
SSE	22.35	348	Pc	13 23.00	0.2	PKI	42.78 301 P	16 21.96 -0.7			
			1.0s 86.00nm		5.1mb		0.7s 38.00nm	5.3mb			
			Z 20s 0.80um		4.1msz	KKN	42.95 301 P	16 23.40 -0.6			
			E 13s 0.40um				0.9s 56.00nm	5.3mb			
			SP 13 34.00			DMN	43.04 301 P	16 24.32 -0.5			
			S 17 26.00				0.8s 50.00nm	5.4mb			
			SS 17 36.00			STK	43.32 161 iPc	16 25.60 -1.0			
							0.8s 6.00nm	4.4mb			

27d 20h

[illegible]

• APR 27, 1991 21h 33m 47.96 \pm 2.33s
18.113 S \pm 12.1km 178.397 W \pm 13.3km
DEPTH = 584.0 \pm 28.6 km
4.9mb (11 obs.)

FIJI ISLANDS REGION (181)

DZM	14.77	252	iPc	36	56.00	1.8
			iS	39	33.00	
NO2	20.67	188	P	37	51.30	1.6
KIW	23.39	193	eP	38	15.10	0.7
CAW	23.60	192	eP	38	15.00	-1.2
WDW	23.76	192	P	38	18.10	0.4
MRW	23.79	193	P	38	17.40	-0.5
TCW	23.87	194	P	38	17.70	-0.9
THZ	24.72	196	eP	38	27.20	1.0
KHZ	25.18	194	eP	38	29.60	-0.5
LTZ	25.84	196	eP	38	35.50	-0.5
BRS	28.09	246	iPd	38	56.00	0.3
MMCZ	28.77	199	P	39	00.40	-1.1
MHZ	28.78	198	eP	39	00.30	-1.3
TLC	28.96	198	P	39	02.60	-0.6
CTA	33.42	261	iPd	39	40.90	-0.1
	0.8s	29.85nm			5.0mb	
PMG	34.51	280	iPd	39	50.20	0.1
	0.9s	134.45nm			5.6mb	
LAT	35.59	284	eP	40	00.04	1.1
TOO	37.05	231	iPc	40	13.20	2.4
STK	38.55	241	iPd	40	24.60	1.6
	0.7s	9.40nm			4.5mb	
OIS	39.63	259	iPd	40	31.40	-0.5
ASPA	44.75	254	iPd	41	12.20	0.0
	0.6s	219.10nm			5.9mb	
			iS	47	04.90	
GUA	47.95	308	eP	41	35.80	-0.8
	0.8s	149.25nm			5.6mb	
PJG	48.01	309	eP	41	36.30	-0.7
FORR	49.90	245	iPd	41	50.10	-0.7
	0.3s	26.00nm			5.2mb	
WARB	51.22	251	iPd	42	00.20	-0.5
	0.3s	15.00nm			4.9mb	
AAI	54.16	279	eP	42	20.40	-1.3
COOL	55.88	245	eP	42	32.40	-1.1
	0.4s	13.00nm			4.6mb	

MBL	57.94	256	iPd	42	47	00	-0.7
	0.4 s		18.00nm				4.7mb
MEKA	58.45	249	eP	42	50	00	-1.0
BAL	59.71	245	eP	42	48	40	-10.9X
MUN	60.04	243	eP	43	01	30	-0.2
NANU	61.68	254	iPd	43	22	10	9.8X
	0.3 s		14.00nm				4.8mb
MAT	68.08	323	iPd	43	50	40	-1.5
PSI	83.88	275	ePd	45	22	60	4.0X
PNT	84.90	34	eP	45	23	00	0.2
	0.7 s		6.00nm				4.3mb
CHG	89.08	290	eP	45	44	20	1.1
YKA	94.51	25	eP	46	05	90	-1.2
	1.0 s		0.70nm				3.8mb X
NB2	136.58	353	PKP	51	57	40	-8.1X
	0.7 s		0.80nm				
HFS	137.13	351	ePKP	51	56	00	-10.4X
	0.7 s		1.70nm				
			e	51	59	00	
			e	52	06	20	
KSP	145.31	344	iPKPc	52	22	50	1.5
CLL	145.66	347	iPKP	52	23	10	1.5
MLR	146.01	329	ePKP	52	24	00	1.5
PRU	146.54	345	PKP	52	25	70	2.6X
GRF	147.56	348	ePKP	52	28	60	3.9X
KHC	147.58	345	ePKP	52	28	50	3.7X
KBA	149.54	344	ePKP	52	30	50	2.4X
	0.7 s		2.60nm				
VBY	150.41	340	ePKP	52	35	80	6.6X
OHR	151.77	328	ePKP	52	38	00	6.6X
S.D.	= 1.1	on	37 of 48 obs.				

? APR 27, 1991 21h 59m 52.42 \pm 3.87s
31.175 S \pm 15.7km 68.369 W \pm 24.3km
DEPTH = 66.2 \pm 38.8 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.18	209	iPc	00 02.20	-0.5
CFA	0.45	166	ePd	00 04.50	-0.1
			eS	00 16.00	
ZON	0.46	215	eP	00 04.90	0.2
			eS	00 16.90	
RTCS	0.48	230	iPc	00 05.40	0.4
			eS	00 17.30	
RTBS	1.05	242	ePc	00 11.00	-0.5
			S	00 27.00	
RTRS	1.37	317	iPc	00 16.00	0.1
			S	00 35.90	
S.D. = 0.6 on 6 of 6 obs.					

```
& APR 27, 1991 22h 06m 40.60s
49.012 N 129.110 W
DEPTH = 10.0km (geophysicist)
3.4mb ( 1 obs.)
VANCOUVER ISLAND REGION ( 25)
<PGC>. ML 3.6 (PGC).
```

EDB	1.56	56	Pd	07 07.76	-0.6
			S	07 28.63	
ETB	1.73	77	Pc	07 10.98	0.2
PHC	2.01	32	Pd	07 14.00	-1.0
			S	07 39.94	
GDR	2.15	68	Pc	07 16.55	-0.4
OZB	2.38	90	Pc	07 19.62	-0.7
			S	07 48.44	
BTB	2.40	78	Pc	07 20.44	-0.2
			S	07 48.69	
CBB	2.65	66	Pc	07 24.31	0.3
ALB	2.82	83	P	07 26.18	-0.3
MGB	2.91	89	P	07 27.10	-0.8
			S	08 01.20	
BBB	3.24	11	P	07 30.80	-1.6
			S	08 09.00	
MCW	4.16	92	P	07 46.34	0.8
BLN	4.20	102	P	07 48.61	2.5
HDW	4.26	106	P	07 48.09	1.0
BMW	4.71	120	P	07 55.51	2.1
MBW	4.76	90	P	07 54.50	0.2
JCW	4.83	97	P	07 55.42	0.3
HTW	5.04	101	P	07 58.23	0.2
RPW	5.06	94	P	07 58.69	0.4
LMW	5.16	114	P	08 01.72	2.0
RVW	5.17	121	P	08 01.85	2.0
RVC	5.22	111	P	08 02.06	1.4
GSM	5.22	108	P	08 01.36	0.6
ERK	5.31	118	P	08 03.69	1.7
LON	5.41	112	P	08 05.21	1.9

LVP	5.41	120	P	08	05.42	2.1
FMW	5.41	110	P	08	04.54	1.1
ESD	5.48	118	P	08	06.55	2.1
MTMW	5.55	120	P	08	07.40	2.1
CDFW	5.59	119	P	08	07.87	2.0
WPW	5.59	112	P	08	08.60	2.7
ASR	5.84	117	P	08	10.91	1.6
VLMW	5.93	123	P	08	13.32	2.6
TBM	5.99	105	P	08	12.37	0.9
NAC	6.02	109	P	08	13.99	2.1
ETW	6.02	100	P	08	12.79	0.8
MDW	6.74	107	P	08	22.90	0.9
H5O	6.89	141	P	08	27.29	3.1
DD2	7.14	99	P	08	26.62	-0.9
YKA	15.73	25	eP	10	21.30	-2.2
	0.5s				1.40nm	3.4mb
39 obs. associated						

• APR 27, 1991 22h 37m 38.03± 1.37s
37.883 N ±11.9km 142.778 E ±15.7km
DEPTH = 33.0km (normal)
4.0mb (2 abs.)
OFF EAST COAST OF HONSHU, JAPAN (229)

OFUJ	1.48	324	P	38	02.40	-0.7
			eS	38	23.00	
YAMJ	2.18	278	P	38	12.00	-0.7
			eS	38	41.20	
KAKJ	2.67	232	P	38	18.30	-1.4
			eS	38	49.50	
NIIJ	3.07	259	P	38	24.80	-0.5
			eS	39	02.40	
CHJJ	3.54	240	eP	38	31.30	-0.7
			eS	39	10.00	
MAT	3.89	251	eP	38	36.00	-0.9
	0.5s	7.04nm				
			eS	39	27.00	
MTMJ	4.17	253	P	38	41.30	0.2
IIDJ	4.59	240	P	38	47.40	0.5
KUSJ	5.41	15	eP	38	57.40	-1.1
			S	39	55.30	
TSRJ	5.94	249	eP	39	07.10	1.1
ASAJ	6.23	359	eP	39	10.40	0.4
YAK	25.48	346	eP	43	04.30	-0.1
GUN	48.15	276	P	46	19.40	1.9
KKN	48.68	276	P	46	23.20	1.9
YKA	62.53	31	eP	48	10.90	10.5X
	0.3s	0.10nm				
HFS	73.76	336	eP	49	09.70	-0.6
	0.8s	1.40nm				4.0mb
Z	17s	0.04um				3.7MsZ X
			e	49	16.00	
			e	49	22.20	
			e	49	26.70	
			LR	22	15.00	
NB2	73.82	338	P	49	11.00	0.3
	0.7s	1.10nm				4.0mb
SPA	127.70	180	ePdii f	53	41.00	17.3X
	0.8s	12.50nm				
		i	54	53.90		

S.D. = 1.1 on 16 of 18 obs.

* APR 27, 1991 23h 39m 41.53± 1.16s
5.126 S ±13.7km 144.008 E ± 9.4km
DEPTH = 74.1 ± 13.6 km
4.9mb (3 obs.)

PAPUA NEW GUINEA (202)

MNDI	1.08	199	iP	40	01.80	0.1
MDG	1.77	94	iPc	40	10.12	-0.5
YYYY	2.24	120	iPc	40	18.70	1.4
			eS	40	47.80	
LAT	3.34	117	iPc	40	32.88	0.4
			eS	41	13.32	
PMG	5.28	144	eP	40	58.00	-1.6
QIS	15.92	195	eP	43	29.00	6.4X
			eS	46	14.00	
WARB	26.73	217	iPc	45	16.60	0.6
GUN	64.91	304	P	50	16.00	0.0
	0.7s	15.00nm				5.0mb
PKI	65.18	303	P	50	17.60	-0.2
KKN	65.36	304	P	50	18.70	-0.1
	0.7s	15.00nm				5.0mb
DMN	65.44	303	P	50	19.36	0.0
GBA	68.63	287	Pd	50	39.20	-0.1
	0.5s	2.80nm				4.4mb
SIV	147.50	131	PKP	59	17.20	0.2

KIC 148.88 274 PKP 59 27.00 7.7X
LKO 149.54 280 PKP 59 24.00 3.7X
0.5s 9.50nm
S.D. = 0.8 on 12 of 15 obs.

* APR 28, 1991 00h 23m 01.76 ± 1.15s
10.846 N ± 12.2km 62.462 W ± 13.9km
DEPTH = 123.4 ± 11.4 km
4.2mb (4 obs.)

NEAR COAST OF VENEZUELA (97)

CUM 1.72 257 iPd 23 34.60 2.2
iS 23 59.00
BIM 3.89 20 eP 23 59.49 -1.4
MVM 3.99 22 eP 24 00.97 -1.2
FDF 4.07 18 eP 24 01.73 -1.5
S 24 45.00
CRM 4.17 21 eP 24 03.98 -0.5
OLLA 4.35 260 iP 24 05.90 -1.2
eS 24 55.00
BBL 4.75 12 eP 24 14.10 1.7
MGG 5.16 12 eP 24 18.57 0.5
PAG 5.21 8 eP 24 19.06 0.3
S 25 16.00
SEG 5.60 9 eP 24 25.19 1.2
DEG 5.60 14 eP 24 24.00 -0.1
CEOS 6.06 253 iP 24 27.90 -2.5X
eS 25 34.80

BPA 6.19 5 eP 24 32.31 0.1
NEV 6.25 359 eP 24 33.25 0.2
TOV 7.29 262 eP 24 35.50 -11.7X
SDV 8.28 257 ePn 24 58.40 -2.3X
eSn 26 28.50

UAV 8.84 256 eP 25 07.00 -1.3
eS 25 55.70
SIV 26.70 177 P 28 31.40 0.0
TUL 39.15 315 iPc 30 19.50 0.5
0.8s 11.90nm 4.7mb

YKA 63.55 336 eP 33 19.50 -1.4
0.4s 0.80nm 4.0mb
NB2 72.68 29 P 34 20.00 2.3X
0.7s 2.40nm 4.1mb

HFS 73.77 30 eP 34 25.60 1.7
0.6s 3.60nm 4.3mb
ePcP 34 38.30
KEV 79.72 21 eP 34 39.00 -17.9X
S.D. = 1.3 on 18 of 23 obs.

? APR 28, 1991 00h 25m 01.77 ± 8.55s
31.691 S ± 39.7km 68.280 W ± 39.6km
DEPTH = 99.0 ± 58.5 km
SAN JUAN PROVINCE, ARGENTINA (137)

CFA 0.09 22 iPc 25 16.10 0.0
S 25 27.10
ZON 0.37 293 eP 25 16.90 0.0
eS 25 28.90

RTLL 0.40 336 iPc 25 16.90 -0.1
RTCB 0.49 295 iPd 25 17.80 0.1
eS 25 30.10

RTBS 1.00 271 ePc 25 22.30 -0.1
S 25 38.10
RTRS 1.82 326 iPc 25 32.50 0.0
S 25 56.00

S.D. = 0.1 on 6 of 6 obs.

APR 28, 1991 00h 32m 16.96 ± 0.76s
45.594 N ± 5.7km 14.502 E ± 6.4km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)

MD 2.4 (LJU).

CEY 0.15 340 iPg 32 20.90 0.3
iSg 32 23.40
RIY 0.26 198 iPg 32 22.60 0.1
iSg 32 27.20

LJU 0.45 3 ePg 32 26.00 -0.1
eSg 32 32.90
TRI 0.53 283 ePg 32 27.50 -0.2
iSg 32 36.60

VOY 0.61 316 ePg 32 29.30 0.0
eSg 32 38.00
PTJ 1.06 73 ePg 32 37.00 -0.1
eSg 32 51.20

KBA 1.69 332 iPg 32 50.50 3.7X
iSg 33 11.10
S.D. = 0.2 on 6 of 7 obs.

* APR 28, 1991 01h 19m 05.97 ± 1.14s
46.472 N ± 9.9km 15.151 E ± 10.3km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)

ML 2.3 (KBA). Felt (V) in the Muta area.

LJU 0.61 225 e(Pg) 19 18.00 -0.2
iSg 19 26.50
i 19 27.50
PTJ 0.80 135 iPg 19 21.40 -0.2
eSg 19 34.10

VBV 0.97 176 e(Pg) 19 27.60 3.2X
iSg 19 41.70
VOY 0.98 244 e(Pg) 19 25.60 1.0
eSg 19 39.50
e 19 42.30

KBA 1.38 297 iPg 19 29.90 -1.5
iSg 19 45.70
KHC 2.86 339 Pg 19 53.50 0.9
Sg 20 30.50

S.D. = 1.5 on 5 of 6 obs.

* APR 28, 1991 01h 32m 13.50s
40.412 N 124.665 W
DEPTH = 14.0km
NEAR COAST OF NORTHERN CALIF. (35)

<BRK>. ML 3.5 (BRK). Felt (IV) at Honeydew and (III) at Petrolia.

FHC 0.65 53 iPc 32 25.72 -0.4
iS 32 31.00
LTCM 1.95 95 eP 32 43.70 -2.8

MIN 2.34 91 iPc 32 48.96 -3.3
ORV 2.58 108 eP 32 51.78 -3.7
ZSP 3.09 142 eP 32 59.93 -2.8
BRK 3.15 143 eP 33 00.30 -3.3

BKS 3.16 142 iPc 33 00.40 -3.3
ARN 3.91 140 eP 33 11.00 -3.5
CMB 4.08 124 eP 33 14.90 -2.0
SAO 4.43 144 eP 33 16.80 -5.0

FRI 5.17 130 eP 33 30.00 -2.2
11 obs. associated

? APR 28, 1991 01h 57m 30.96 ± 12.74s
17.465 N ± 88.4km 61.628 W ± 18.5km
DEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)

ML 2.8 (FDF).

BPA 0.47 208 eP 57 40.50 0.0
S 57 49.40
SEG 1.06 174 eP 57 51.00 0.0
DEG 1.27 155 eP 57 54.50 0.0

PAG 1.43 182 eP 57 57.00 0.0
S 58 18.00
S.D. = 0.1 on 4 of 4 obs.

? APR 28, 1991 02h 56m 13.29 ± 0.99s
42.087 N ± 6.9km 12.896 E ± 9.5km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

RMP 0.31 208 P 56 19.70 -0.1
eSg 56 25.00
MNS 0.34 332 P 56 20.30 0.0
eSg 56 27.00

RDP 0.35 202 P 56 20.70 0.1
eSg 56 26.90
SDI 0.78 119 P 56 28.60 0.0
eSg 56 40.80

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

* APR 28, 1991 03h 44m 18.89 ± 1.09s
28.187 N ± 14.2km 51.505 E ± 20.9km
DEPTH = 10.0km (geophysicist)
3.9mb (3 obs.)
SOUTHERN IRAN (353)

SHI 1.71 31 iPd 44 49.00 0.0
eS 45 09.00
DHR 2.24 213 eP 45 13.60 17.1X

RYD 5.58 233 eP 45 48.50 4.4X
KMSA 10.07 221 eP 46 46.70 0.1
NUR 37.06 338 iP 51 30.90 0.3

KAF 37.79 341 eP 51 37.20 0.5
HFS 40.90 332 eP 52 01.10 -1.4
0.6s 1.40nm 3.9mb
e 52 04.80
e 52 07.60

NB2 42.42 332 P 52 15.80 0.7
0.7s 1.10nm 3.7mb
KEV 43.94 348 eP 52 05.00 -22.2X
YKA 88.95 354 eP 57 14.60 -0.1
0.8s 0.90nm 4.1mb

ALQ 113.85 340 e(PKP) 03 00.00 -0.1
S.D. = 0.8 on 8 of 11 obs.

* APR 28, 1991 04h 31m 53.10 ± 1.27s
8.110 S ± 7.7km 128.107 E ± 12.3km
DEPTH = 78.7 ± 14.9 km
4.7mb (8 obs.)
TIMOR SEA (290)

AAI 4.40 1 ePd 32 59.00 0.2
eS 33 47.60
KUPT 4.89 245 eP 33 05.50 -0.2
eS 33 27.50

MTN 5.57 148 iPc 33 27.60 12.4X
KNA 7.62 175 iPd 33 44.60 1.0
0.2s 141.00nm 6.3mb X
eS 35 05.00

WB2 13.23 153 iPc 34 57.20 -1.9
0.5s 90.20nm 5.7mb X
MBL 15.24 211 eP 35 24.00 -1.2
0.3s 11.00nm 4.5mb
eS 38 01.00

ASPA 16.44 161 eP 35 40.20 -0.1
0.6s 53.70nm 4.9mb
Z 19s 0.30um 3.9msz
iP 35 41.50

e 35 42.50
e 35 47.40
eS 38 36.60

QIS 16.63 139 iPc 35 43.20 0.4
0.8s 36.00nm 4.6mb
iS 38 41.70

NANU 18.78 219 eP 36 21.00 12.0X
0.4s 10.00nm
eS 39 42.00

MEKA 20.53 205 eP 36 30.20 2.8
eS 40 06.00
CTA 21.22 126 iPc 36 40.70 6.2X
1.1s 24.05nm 4.5mb

COOL 23.57 195 eP 37 03.00 5.5X
BAL 24.79 204 eP 37 13.00 3.8X
MUN 26.20 203 eP 37 28.00 5.7X
STK 26.78 154 eP 37 32.00 4.5X
0.5s 2.80nm 4.0mb

e 37 45.50
eS 42 39.00
ADE 28.45 162 e(P) 38 03.00 20.4X
KHT 37.07 308 eP 38 59.20 1.7

CHG 39.28 313 eP 39 16.40 0.3
GYA 40.18 329 P 39 25.00 1.5
WHN 40.64 342 eP 39 28.00 1.0

NJ2 40.90 348 P 39 30.00 0.8
XAN 45.70 338 P 40 04.50 -3.5X
LZH 49.53 334 eP 40 37.00 -1.1
1.2s 18.00nm 5.0mb

SP 40 48.00
GTA 54.07 333 P 41 12.80 0.8
1.0s 10.00nm 4.8mb

GUN 54.30 313 P 41 13.00 -1.1
PKI 54.45 312 P 41 14.20 -1.1
0.6s 9.00nm 5.0mb

KKN 54.67 312 P 41 14.98 -1.7
DMN 54.69 312 P 41 15.96 -1.0
GKN 55.26 312 P 41 19.78 -1.1

YKA 109.57 26 ePKP 50 32.50 16.7X
0.6s 0.20nm
NNA 148.16 129 iPKP 51 36.50 7.4X

BMA 148.46 194 (PKP) 51 38.00 8.6X
VAO 148.71 189 ePKP 51 37.00 7.2X
PPD 150.04 181 ePKP 51 40.50 8.7X
LPB 150.73 147 ePKP 51 38.00 4.6X
i 51 43.00

ZOBO 150.93 146 PKP 51 44.20 10.3X
1.0s 17.50nm
CCH 151.02 151 PKP 51 44.80 11.1X
SIV 154.39 159 PKP 51 42.40 4.3X
S.D. = 1.4 on 20 of 38 obs.

APR 28, 1991 05h 17m 06.84 ± 0.57s
 47.070 N ± 4.4km 9.165 E ± 6.0km
 DEPTH = 10.0km (geophysicist)
 GERMANY (543)
 ML 2.5 (LDG).

LLS	0.23	210	iP	17	11.70	-0.2
VDL	0.62	160	iP	17	19.30	-0.2
ZLA	0.67	308	iP	17	20.20	0.0
OSS	0.77	119	iP	17	22.10	0.1
SLE	0.83	327	iP	17	23.30	0.3
FEL	1.12	316	ePn	17	28.44	0.5
MMK	1.31	220	ePd	17	31.30	0.0
DIX	1.56	231	iP	17	35.70	0.7
BSF	1.78	296	Pn	17	37.40	-0.6
			Pg	17	40.20	
EMS	1.84	238	eP	17	41.80	2.9X
CDF	1.85	317	Pn	17	38.70	-0.3
			Pg	17	41.80	
			Sg	18	04.20	
HAU	2.13	297	Pn	17	42.50	-0.4
			Pg	17	46.70	
			Sg	18	12.60	
LPL	2.29	228	Pn	17	48.20	2.7X
LPG	2.30	228	Pn	17	48.40	2.8X
LBF	3.55	271	Pg	18	13.70	10.6X
			Sg	18	56.90	

S.D. = 0.4 on 11 of 15 obs.

APR 28, 1991 05h 21m 14.77 ± 0.44s
 42.983 N ± 4.1km 1.931 W ± 4.2km
 DEPTH = 10.0km (geophysicist)
 PYRENEES (378)
 mbLg 3.1 (MDD). ML 3.1 (LDG).

ECRI	0.57	229	eP	21	26.50	0.2
			eS	21	34.10	
BOH	0.68	80	Pg	21	28.14	-0.3
			Sg	21	37.98	
ELYF	0.71	74	Pg	21	29.13	0.3
MADF	0.83	78	Pg	21	31.11	0.3
			Sg	21	43.41	
ISSF	0.83	87	Pg	21	30.30	-0.7
ATE	0.91	83	Pg	21	31.93	-0.2
			Sg	21	45.26	
LHE	0.96	94	Pg	21	32.69	-0.5
ESCF	1.00	84	Pg	21	34.21	0.5
OGE	1.08	80	Pg	21	35.92	0.8
JAU	1.15	87	Pg	21	36.26	-0.1
EPF	1.67	88	Pn	21	45.20	1.0
			Sn	22	07.20	
ETOR	2.16	182	eP	21	51.00	-0.4
			eS	22	19.00	
LFF	2.75	44	Pn	22	00.90	1.2
EROQ	2.78	140	eP	21	59.50	-0.6
			eS	22	33.00	
LPO	2.82	52	Pn	22	01.50	0.7
			Sn	22	36.80	
GUD	2.87	216	eP	22	02.00	0.5
			eS	22	35.00	
RJF	3.40	46	Pn	22	09.40	0.5
			Sn	22	49.90	
CAF	3.48	55	Pn	22	10.80	0.8
			Sn	22	52.40	
LSF	4.10	36	Pn	22	18.90	0.2
			Sn	23	06.80	
TCF	4.43	40	Pn	22	23.40	-0.2
			Sn	23	14.40	
MAF	4.56	43	Pn	22	25.00	-0.4
			Sn	23	18.20	
BGF	4.93	42	Pn	22	30.00	-0.7
			Sn	23	27.00	
AVF	5.35	43	Pn	22	36.20	-0.3
SMF	5.50	46	Pn	22	38.00	-0.7
SSF	5.61	42	Pn	22	39.00	-1.2
			Sn	23	42.60	
LOR	5.93	42	Pn	22	44.20	-0.5

S.D. = 0.6 on 26 of 26 obs.

APR 28, 1991 08h 09m 45.14 ± 0.69s
 6.093 S ± 4.5km 76.942 W ± 6.7km
 DEPTH = 35.3 ± 7.2 km
 4.7mb (15 obs.)
 NORTHERN PERU (111)

ANGL 5.69 354 eP 11 20.00 10.0X

NNA	5.86	179	iP	11	12.20	0.2
	0.7s	61.64nm				5.3mb
PT10	5.94	180	iPd	11	14.50	1.3
			eS	12	18.00	
OUR	6.09	345	eP	11	16.00	0.3
YANA	6.16	345	eP	11	16.60	0.0
ARE	11.61	153	e(P)	12	31.00	-0.8
ZOBO	13.30	140	P	12	54.00	-0.7
	Z 20s	0.74um				
		LR		18	00.00	
LPB	13.51	141	P	12	57.00	-0.4
	Z 19s	1.74um				
		LR		18	50.00	
CCH	15.41	138	P	13	26.30	4.3X
SDV	16.15	23	eP	13	31.40	-0.1
TOV	17.31	24	eP	13	54.40	8.5X
SIV	18.41	124	Pc	13	59.00	-0.5
PPD	29.40	125	eP	15	46.90	-0.8
PDCR	37.83	103	eP	17	01.70	1.2
		e		17	09.30	
JSC	40.36	354	P	17	21.60	0.3
NAV	43.33	356	P	17	46.00	0.4
OLY	43.57	343	P	17	46.00	-1.6
CVL	43.87	358	P	17	50.60	0.7
NA2	44.00	359	P	17	51.80	0.9
TUL	45.38	338	ePc	18	01.60	-0.5
	1.2s	23.30nm				5.0mb
MEQ	45.50	335	iPc	18	03.00	-0.1
FVM	45.61	345	P	18	02.80	-1.1
	1.0s	15.00nm				4.9mb
LVNJ	46.71	2	P	18	13.30	0.8
WVLY	48.35	358	P	18	25.20	-0.2
ALO	49.40	328	ePc	18	33.60	-0.2
	1.1s	9.49nm				4.7mb
ANMO	49.40	328	P	18	35.10	1.3
	1.0s	7.50nm				4.7mb
GOL	52.58	332	P	18	57.20	-0.8
	0.6s	1.03nm				4.0mb
CBM	53.37	8	P	19	02.80	-0.5
MSU	55.12	327	P	19	16.40	-0.3
GSC	55.69	321	eP	19	20.00	-0.6
CLC	56.51	321	eP	19	14.00	-12.5X
DUG	56.67	328	eP	19	28.00	0.3
	1.0s	6.25nm				4.6mb
ISA	56.98	320	eP	19	30.00	0.2
TNP	57.73	323	P	19	35.00	-0.2
	1.0s	4.17nm				4.4mb
BONR	58.30	322	P	19	40.30	0.9
SXM	60.29	333	eP	19	52.70	-0.2
ORV	61.25	322	P	20	00.00	0.7
SES	63.51	336	eP	20	14.00	-0.2
FFC	64.10	344	eP	20	17.00	-0.9
	1.2s	18.00nm				5.0mb
PNT	66.50	331	eP	20	34.00	0.5
	0.7s	5.00nm				4.7mb
EDM	66.61	337	eP	20	33.00	-1.1
FRB	69.93	4	eP	20	54.00	-0.5
KIC	73.11	81	P	21	15.40	0.9
YKA	74.21	343	eP	21	18.30	-1.7
	0.6s	3.00nm				4.5mb
INK	83.93	342	eP	22	13.50	1.0
LFF	85.62	44	eP	22	34.70	13.3X
	0.7s	4.40nm				
AVF	87.79	43	eP	22	32.30	0.3
	0.7s	2.20nm				4.5mb
SSF	87.94	42	eP	22	32.90	0.2
	0.8s	2.70nm				4.6mb
SMF	88.09	43	eP	22	33.90	0.5
DAG	88.96	11	iPd	22	38.00	1.0
	0.4s	11.02nm				5.5mb
CDF	90.68	42	eP	22	46.00	0.3
	0.6s	2.70nm				4.8mb
ASPA	137.79	224	ePKP	29	20.00	11.4X
	1.4s	5.30nm				
WB2	139.79	229	ePKP	29	03.30	-8.9X
	2.3s	1.00nm				
		iP		29	14.00	
		i		34	32.20	
		e		35	20.20	
WRA	139.80	229	PKP	29	12.00	-0.3
	0.5s	2.80nm				
SSE	149.87	328	e(PKP)	29	11.20	-17.6X
GKN	152.07	37	PKP	29	39.86	7.4X
KKN	152.60	36	PKP	29	38.62	5.4X
DMN	152.64	37	PKP	29	39.98	6.6X
PKI	152.84	36	PKP	29	38.52	4.8X

GUN 152.86 35 PKP 29 40.54 6.8X
 S.D. = 0.8 on 47 of 60 obs.

? APR 28, 1991 09h 09m 04.14 ± 5.93s
 39.592 N ± 39.6km 29.431 E ± 31.5km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.5 (ISK).

DST	0.62	271	ePg	09	16.20	-0.5
			eSg	09	28.00	
KCT	1.06	309	ePn	09	23.50	-0.5
HRT	1.24	8	ePn	09	27.00	-0.2
BNT	1.39	304	ePn	09	30.80	1.2

S.D. = 1.5 on 4 of 4 obs.

* APR 28, 1991 09h 47m 29.66 ± 0.62s
 37.597 N ± 10.2km 71.369 E ± 10.5km
 DEPTH = 33.0km (normol)
 3.8mb (3 obs.)
 AFGHANISTAN-USSR BORDER REGION (717)

QUE	8.25	208	eP	49	29.90	-0.3
			e(S)	50	50.30	
GKN	14.68	127	P	50	59.56	2.6X
KKN	15.24	126	P	51	05.36	1.1
DMN	15.25	127	P	51	05.30	0.8
PKI	15.47	126	P	51	07.16	-0.2
GUN	15.55	124	P	51	07.14	-1.3
HFS	42.39	321	eP	55	23.00	0.8
	0.4s	1.00nm				3.9mb
		eP		55	28.70	19kmX
		ePcP		55	49.70	
NB2	43.69	322	P	55	33.10	0.3
	0.7s	1.60nm				3.9mb
INK	72.78	9	eP	58	56.00	-0.1
YKA	80.14	3	eP	59	36.30	-1.1
	0.5s	0.30nm				3.5mb
WB2	82.33	122	iPc	59	56.00	6.4X

S.D. = 1.0 on 9 of 11 obs.

% APR 28, 1991 09h 49m 46.10 ± 0.96s
 39.108 N ± 8.7km 27.693 E ± 15.0km
 DEPTH = 28.9 ± 8.9 km
 TURKEY (366)
 MD 2.6 (ISK).

IZM	0.79	206	ePg	50	01.10	0.0
			iSg	50	11.60	
DST	0.88	55	ePn	50	02.50	0.1
EDC	1.24	6	ePn	50	08.00	0.4
KCT	1.25	24	ePn	50	07.30	-0.4
BNT	1.26	8	ePn	50	07.80	0.0
KGT	1.38	347	ePn	50	09.30	-0.2

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

APR 28, 1991 10h 42m 33.67 ± 0.47s
 37.775 N ± 4.6km 2.495 W ± 4.3km
 DEPTH = 10.0km (geophysicist)
 SPAIN (377)
 mbLg 3.1 (MDD). Felt (III) at Huescar.

EHUE	0.09	297	ePg	42	35.10	-1.2
			eSg	42	36.30	
ENIJ	0.83	165	ePg	42	49.70	-0.1
EALH	0.85	84	eP	42	49.11	-1.0
			eS	43	01.70	
EVIA	0.86	360	ePg	42	49.90	-0.4
			eSg	43	00.80	
AFC	0.98	238	ePg	42	52.90	0.5
			eSg	43	07.30	
ECOG	0.99	240	ePg	42	52.80	0.3
			eSg	43	07.00	
EBAN	1.09	291	ePg	42	54.30	0.1
			eSg	43	09.10	
EGUA	1.27	223	ePn	42	57.50	0.2
			eSn			

TOL 2.43 330 ePn 43 15.50 1.5
 ePg 43 22.50
 iSn 43 42.50
 iSg 43 50.50
 LIJA 2.48 250 eP 43 16.00 1.1
 ALJ 2.71 247 eP 43 27.50 9.3X
 GIBL 2.92 252 eP 43 12.50 -8.5X
 ETOR 3.06 6 ePn 43 22.90 -0.1
 eSn 43 57.40
 GUD 3.14 336 ePn 43 24.40 0.2
 eS 44 00.40
 EVAL 3.38 268 ePn 43 26.00 -1.5
 eSn 44 05.90
 S.D. = 0.9 on 16 of 20 obs.

APR 28, 1991 11h 06m 04.44±2.44s
 9.460 N ± 9.5km 126.735 E ± 22.6km
 DEPTH = 40.5 ± 23.3 km
 4.4mb (7 obs.) 3.8Msz (1 obs.)
 MINDANAO, PHILIPPINE ISLANDS (259)

DAV 2.62 206 eP 06 45.50 0.2
 BAG 9.15 320 eP 08 16.10 -1.1
 SSE 22.14 347 eP 11 00.00 1.8
 Z 18s 0.30um 3.8Msz
 PP 11 13.50
 NJ2 23.64 343 Pd 11 14.60 1.7
 PP 11 26.00
 IPM 25.97 261 ePc 11 36.40 1.1
 1.0s 36.00nm 4.9mb
 PSI 28.44 258 ePd 12 02.50 4.7X
 XAN 29.43 329 P 12 03.00 -3.6X
 WB2 30.17 166 iPc 12 12.00 -1.2
 0.6s 2.30nm 4.1mb
 iP 12 19.90 27kmX
 e 17 05.40
 e 19 13.70
 BJI 31.87 345 eP 12 26.00 -2.0
 1.2s 19.00nm 4.8mb
 SNY 32.36 356 eP 12 32.30 0.1
 1.2s 20.00nm 4.9mb
 ASPA 33.66 168 eP 12 42.60 -1.2
 0.8s 2.50nm 4.2mb
 STK 43.50 162 eP 14 06.70 1.0
 0.6s 1.40nm 3.9mb
 BRS 44.48 146 iPd 14 15.00 1.2
 YAK 52.50 2 eP 15 15.60 0.2
 KEV 84.55 340 eP 18 32.00 -2.3
 INK 84.87 22 eP 18 36.00 0.1
 KAF 86.55 332 eP 18 44.40 0.0
 NUR 87.72 331 eP 18 50.40 0.4
 YKA 94.31 24 eP 19 26.50 5.8X
 0.8s 1.00nm 4.3mb
 S.D. = 1.4 on 16 of 19 obs.

APR 28, 1991 11h 25m 47.71±1.01s
 38.037 N ± 10.0km 20.183 E ± 6.4km
 DEPTH = 10.0km (geophysicist)
 3.7mb (2 obs.)
 GREECE (364)
 ML 3.6 (ATH).

VLS 0.35 66 ePg 25 53.80 -1.1
 IGT 1.50 4 eP 26 16.40 1.8
 eS 26 35.30
 AGG 1.95 59 eP 26 20.80 -0.4
 eS 26 41.80
 VLI 2.56 120 ePn 26 32.20 2.3
 KZN 2.58 28 ePn 26 32.00 1.7
 LIT 2.73 40 eP 26 32.20 -0.2
 ATH 2.79 90 ePn 26 33.00 -0.2
 LCI 2.87 324 P 26 34.90 0.5
 eSn 27 09.00
 OHR 3.11 9 ePn 26 38.70 1.0
 PAIG 3.31 54 eP 26 39.15 -1.5
 GRG 3.38 30 eP 26 41.90 0.3
 BRT 3.66 322 P 26 45.60 0.1
 eSn 27 29.60
 SOH 3.71 40 eP 26 45.60 -0.7
 eS 27 25.80
 ATN 3.73 273 P 26 45.10 -1.4
 eSn 27 26.00
 VAY 3.76 29 ePn 26 47.60 0.6
 SKO 4.05 13 ePn 26 38.00 -13.0X
 SRS 4.05 40 eP 26 49.70 -1.3
 HFS 22.50 352 eP 30 41.70 -6.7X
 0.8s 2.70nm 3.8mb

e 30 46.10
 e 30 48.10
 NB2 23.70 349 P 30 59.00 -1.3
 0.6s 1.00nm 3.6mb
 S.D. = 1.3 on 17 of 19 obs.

? APR 28, 1991 13h 29m 32.58±0.92s
 44.324 N ± 9.2km 7.369 E ± 8.2km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)

STV 0.09 202 P 29 35.16 0.0
 S 29 36.83
 ENR 0.10 159 P 29 35.49 0.1
 S 29 37.10
 PZZ 0.26 313 P 29 38.23 0.0
 S 29 42.38
 ROB 0.36 94 P 29 40.01 0.0
 S 29 45.12
 S.D. = 0.1 on 4 of 4 obs.

& APR 28, 1991 14h 22m 05.61s
 59.838 N 151.708 W
 DEPTH = 66.2km
 KENAI PENINSULA, ALASKA (14)
 <AEIC>.

HOM 0.18 170 eP 22 15.54 -0.3
 eS 22 22.86
 NNL 0.29 45 iPc 22 16.99 0.5
 XLV 0.38 181 eP 22 16.12 -1.1
 CNPM 0.39 142 iPc 22 16.88 -0.4
 eS 22 25.24
 BRK 0.42 100 iPc 22 17.34 -0.2
 eS 22 26.07
 RED 0.79 318 ePd 22 20.78 -0.8
 eS 22 32.14
 RSO 0.82 321 ePd 22 21.35 -0.7
 eS 22 33.75
 RDT 0.82 335 iPd 22 21.15 -0.8
 eS 22 32.76
 RS2 0.82 321 iPd 22 21.36 -0.7
 eS 22 33.41
 REF 0.82 323 iPd 22 21.33 -0.8
 eS 22 33.20
 RDW 0.85 320 iPd 22 21.70 -0.8
 eS 22 33.97
 RDN 0.86 323 iPd 22 21.68 -0.8
 eS 22 33.66
 DFR 0.90 328 iPd 22 22.13 -0.9
 eS 22 34.84
 NKA 0.94 14 eP 22 25.16 1.8
 NCT 0.95 320 ePd 22 22.95 -0.7
 eS 22 36.64
 AUE 0.97 241 eP 22 23.04 -0.8
 AUH 1.00 242 eP 22 23.61 -0.7
 SLKM 1.00 47 eP 22 24.26 0.0
 AUI 1.01 241 eP 22 24.05 -0.2
 eS 22 36.85
 SEW 1.17 76 eP 22 27.11 0.8
 PDB 1.26 269 iPc 22 26.43 -1.1
 eS 22 41.99
 SYI 1.28 196 ePc 22 27.49 -0.4
 CDD 1.35 228 ePc 22 28.13 -0.7
 eS 22 45.21
 SPU 1.36 353 ePd 22 28.78 -0.2
 CKL 1.40 347 ePd 22 29.38 -0.2
 eS 22 48.34
 CRP 1.45 351 eP 22 30.53 0.2
 BGL 1.47 347 eP 22 30.78 0.2
 MCNL 1.49 245 ePc 22 29.43 -1.3
 NCG 1.59 352 ePd 22 32.42 0.3
 SUA 1.70 16 ePc 22 34.36 0.6
 PMS 1.77 36 ePc 22 35.41 0.8
 PWA 2.03 25 eP 22 38.98 0.8
 MTU 2.05 84 eP 22 37.69 -0.8
 KNIM 2.05 74 eP 22 36.90 -1.6
 SKT 2.15 2 ePc 22 40.57 0.7
 PLRM 2.17 35 eP 22 39.78 -0.3
 KNK 2.25 44 eP 22 41.30 0.0
 GHO 2.37 34 eP 22 43.01 0.0
 GLI 2.52 64 eP 22 43.39 -1.6
 SML 2.58 38 eP 22 45.83 0.0
 CUT 2.67 15 eP 22 47.47 0.4
 VZW 2.83 62 eP 22 48.50 -1.0

42 obs. associated

& APR 28, 1991 14h 37m 45.07s
 58.284 N 142.744 W
 DEPTH = 10.0km (geophysicist)
 GULF OF ALASKA (15)
 <AEIC>. ML 2.5 (AEIC).

YKU 2.02 50 eP 38 15.10 -4.4
 PNL 2.22 50 eP 38 17.29 -5.2
 TGL 2.48 359 iP 38 21.04 -5.2
 eS 38 48.28
 CROM 2.49 356 iP 38 21.06 -5.4
 BALM 2.77 4 iP 38 25.28 -5.1
 eS 38 56.18
 CTGM 2.78 14 eP 38 25.54 -5.1
 S 38 56.26
 MTU 3.05 306 eP 38 28.07 -6.2
 GLB 3.21 351 eP 38 31.00 -5.6
 S 39 07.09
 KNIM 3.29 311 eP 38 31.24 -6.5
 VZW 3.39 327 eP 38 33.01 -6.1
 KLU 3.59 335 eP 38 36.10 -5.9
 CUT 5.57 321 eP 39 04.18 -5.8
 12 obs. associated

APR 28, 1991 14h 52m 17.48±0.95s
 23.906 N ± 6.7km 121.865 E ± 9.6km
 DEPTH = 10.0km (geophysicist)
 4.0mb (4 obs.)
 TAIWAN (244)

TWD 0.30 305 iPc 52 22.20 -1.6
 eS 52 24.60
 TWC 0.70 359 ePc 52 31.80 0.5
 TWF1 0.76 223 eP 52 33.10 0.8
 eS 52 44.20
 TWZ 1.21 348 ePc 52 41.00 0.9
 TWK 1.41 244 eP 52 44.00 0.7
 QZH 3.16 290 Pn 53 06.50 -1.7
 Sn 53 50.00
 SSE 7.19 355 eP 54 04.50 -0.6
 Z 12s 0.50um
 GZH 7.86 266 P 54 13.80 -0.9
 S 55 39.80
 NJ2 8.54 343 Pd 54 20.50 -3.5X
 S 56 00.00
 GYA 14.00 284 P 55 40.00 1.8
 S 58 22.00
 SS 58 27.00
 XAN 15.16 315 eP 55 53.70 0.4
 CD2 17.51 297 eP 56 23.00 -0.4
 LZH 19.73 312 eP 56 52.00 1.5
 1.5s 23.00nm 4.3mb
 Z 10s 0.43um 4.0MszX
 SP 57 02.00
 GBA 43.14 264 P 00 01.00 -19.1X
 WRA 45.25 163 P 00 42.00 5.0X
 0.9s 1.40nm 3.9mb
 WB2 45.25 163 iPd 00 36.10 -0.9
 0.8s 1.60nm 4.0mb
 YKA 82.98 23 eP 04 43.40 -0.4
 0.8s 0.60nm 3.8mb
 S.D. = 1.2 on 14 of 17 obs.

APR 28, 1991 15h 33m 02.97±0.30s
 30.726 N ± 6.6km 71.806 E ± 3.5km
 DEPTH = 25.6km (5 depth phases)
 4.6mb (22 obs.) 3.9Msz (6 obs.)
 PAKISTAN (710)

QUE 4.23 264 eP 34 08.40 0.9
 eS 35 05.80
 NDI 5.13 112 iPnc 34 21.30 1.2
 0.5s 161.97nm 5.8mb X
 GAR 8.34 352 eP 35 04.50 -0.9
 i 35 20.00
 KSH 9.35 20 eP 35 20.20 0.9
 S 37 00.70
 GKN 11.52 100 P 35 46.04 -2.9X
 MAIO 11.68 302 iPc 35 51.20 0.1
 0.9s 14.92nm 5.2mb
 eS 38 12.00
 BOM 11.81 175 eP 36 17.60 24.8X
 eS 38 07.80
 DMN 12.03 102 P 35 53.04 -3.0X
 KKN 12.12 101 P 35 53.42 -3.8X
 PKI 12.30 101 P 35 56.58 -3.1X
 GUN 12.60 99 P 36 00.08 -3.6X

HYB	14.60	154 ePd	36	26.50	-3.4X	0.7s	3.85nm	4.5mb	GKN	32.69	335 P	21	52.00	-0.9	
	1.0s	35.00nm		4.8mb		CAF	55.28 306 eP	42 36.30 -0.1	WB2	38.58	121 iPd	22	42.30	-0.7	
		eS	39	16.50		LSF	55.41 307 eP	42 36.60 -0.7		0.4s	5.70nm		4.7mb		
SHI	16.71	271 eP	36	57.00	-0.1		0.7s	4.95nm	4.6mb	ASPA	39.85	126 eP	22	53.60	0.1
LSA	16.76	89 eP	36	56.20	-1.8	RJF	55.59 306 eP	42 38.60 0.0		0.3s	4.50nm		4.7mb		
WMO	18.14	40 P	37	15.20	0.4	LFF	56.20 306 eP	42 42.60 -0.3	STK	49.76	132 eP	24	13.70	1.1	
Z	14s	0.30um				FLN	56.32 311 eP	42 44.60 0.8		0.6s	1.20nm		4.1mb		
SHL	18.43	101 eP	37	16.00	-2.5	Z	22s	0.13um	4.0msz	S.D. = 1.3 on 10 of 11 obs.					
		eS	40	27.20		IMA	77.42 17 eP	45 06.40 9.1X		APR 28, 1991 17h 43m 32.84±0.36s					
KOD	21.06	164 eP	38	03.00	15.1X	WRA	78.39 122 P	45 03.00 -0.2		43.174 N ± 4.0km 0.546 W ± 3.6km					
GTA	24.43	62 P	38	23.20	2.4X		0.7s	3.20nm	4.5mb	DEPTH = 10.0km (geophysicist)					
		PP	38	33.40		WB2	78.40 122 iPd	45 03.70 0.5		PYRENEES (378)					
LZH	27.20	70 eP	38	50.00	3.3X		0.7s	3.00nm	4.4mb	ML 3.3 (LDG). Felt (IV) at					
	2.0s	39.00nm		4.7mb		INK	79.48 9 eP	45 12.20 27km		Oloron Ste. Marie, France.					
Z	16s	0.24um		3.9mszX		FBA	79.82 16 eP	45 10.60 0.4		OGE	0.05	96 Pg	43	35.81	0.8
E	12s	0.26um				ASPA	80.41 125 eP	45 14.40 0.3		ESCF	0.10	192 Pg	43	35.05	-0.5
CD2	27.39	81 eP	38	51.40	3.0X		0.8s	3.70nm	4.5mb	ATE	0.14	233 Pg	43	36.04	-0.2
KMI	27.84	94 eP	38	53.50	0.8	YKA	86.97 3 eP	45 46.50 -0.2				Sg	43	37.87	
GYA	30.82	89 P	39	20.00	0.7		0.8s	1.40nm	4.2mb	JAU	0.19	136 Pg	43	37.35	0.2
XAN	31.41	74 Pc	39	24.30	0.1	S.D. = 0.8 on 51 of 74 obs.						Sg	43	40.29	
BTO	32.35	62 P	39	33.90	1.4	* APR 28, 1991 15h 42m 32.50±1.07s			MADF	0.20	262 Pg	43	37.69	0.4	
TIY	34.11	67 eP	39	48.30	0.5	2.763 S ±11.5km 134.584 E ±17.4km					Sg	43	40.73		
OBN	34.87	325 eP	40	02.10	8.1X	DEPTH = 33.0km (normal)			ISSF	0.23	231 Pg	43	37.82	-0.1	
	1.0s	*****nm		8.1mb X		4.7mb (5 obs.)					Sg	43	41.20		
Z	20s	0.30um		4.0msz		WEST IRIAN REGION (196)			LHE	0.27	192 Pg	43	38.06	-0.5	
YLW	35.56	298 eP	40	00.00	-0.2	AAI	6.45 262 eP	44 10.00 2.4		ELYF	0.33	269 Pg	43	40.03	0.4
QIZ	36.26	100 eP	40	10.70	4.6X	MTN	10.59 199 iPd	45 03.80 -1.2		BOH	0.35	258 Pg	43	45.04	
BNT	36.66	297 iP	40	10.20	0.8	KNA	14.12 204 eP	45 50.00 -2.4		EPF	0.66	102 Pg	43	46.60	0.5
BJI	37.03	63 eP	40	12.00	-0.4	WB2	17.08 181 eP	46 31.10 0.6		ECRI	1.55	249 eP	44	03.00	2.4X
IPM</															

BJI 32.15 345 eP 23 36.50 -2.2
 1.2s 10.00nm 4.5mb
 OIS 32.16 157 iPd 23 38.10 -0.9
 0.9s 22.00nm 4.9mb
 SNY 32.67 356 eP 23 43.80 0.6
 ASPA 33.37 168 iPc 23 48.70 -0.9
 0.9s 6.00nm 4.4mb
 CN2 34.55 359 eP 24 00.00 0.6
 WARB 35.10 180 eP 24 05.00 0.6
 MDJ 35.45 4 eP 24 07.70 0.7
 MUN 42.07 193 eP 25 03.40 1.2
 GUN 42.62 302 P 25 07.80 0.5
 PKI 42.92 301 P 25 09.40 -0.3
 KKN 43.09 301 P 25 11.60 0.6
 DMN 43.19 301 P 25 12.40 0.6
 STK 43.23 161 eP 25 11.80 0.1
 0.5s 2.00nm 4.2mb
 GKN 43.70 301 P 25 14.20 -1.6
 BRS 44.29 146 iPc 25 20.50 0.1
 YAK 52.83 2 eP 26 24.80 -1.0
 INK 85.22 22 eP 29 46.00 0.9
 YKA 94.66 24 eP 30 30.90 1.2
 0.8s 1.60nm 4.5mb
 S.D. = 1.1 on 23 of 23 obs.

? APR 28, 1991 19h 47m 58.72±1.71s
 31.309 S ±45.8km 68.581 W ±15.5km
 DEPTH = 80.0km (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.10 102 iPc 48 10.60 -0.1
 S 48 21.20
 ZON 0.25 199 iPd 48 10.90 -0.1
 eS 48 22.90
 RTCB 0.26 226 iPd 48 11.30 0.2
 eS 48 23.10
 CFA 0.42 136 iPc 48 12.00 0.0
 eS 48 24.50
 RTBS 0.82 244 ePd 48 15.80 -0.1
 S 48 30.00
 S.D. = 0.2 on 5 of 5 obs.

APR 28, 1991 21h 24m 26.56±0.35s
 45.653 N ±5.7km 26.319 E ±4.4km
 DEPTH = 165.9 ± 4.0 km
 4.1mb (26 obs.)

ROMANIA (358)

CVO 0.20 329 iPd 24 49.50 1.1
 MLR 0.31 239 iPd 24 42.00 -6.8X
 VRI 0.36 52 iPc 24 48.50 -0.2
 ISR 0.54 163 iPc 24 51.40 1.2
 CMP 0.98 247 iPc 24 54.00 1.0
 BAC 1.00 24 iP 25 10.00 16.9X
 BUC 1.25 187 iP 25 16.00 20.8X
 PTT 1.28 2 iPd 24 52.00 -3.6X
 CFR 1.37 109 iPc 24 55.00 -1.4
 MDB 1.44 291 iPd 24 57.00 -0.1
 TLB 1.61 131 iPc 24 59.80 1.0
 IAS 1.76 29 iPc 25 00.00 -0.4
 DEV 2.40 277 ePc 25 08.00 0.3
 BZS 3.30 271 ePc 25 18.50 -0.3
 CEI 3.35 309 eP 25 35.00 15.6X
 DMK 3.97 164 ePn 25 26.50 -1.0
 BEO 4.22 261 e(Pn) 25 29.50 -1.3
 CTT 4.76 160 eP 25 46.40 8.6X
 PSZ 4.96 299 eP 25 40.50 0.0
 ISK 5.00 156 eP 25 37.00 -4.0X
 SKO 5.10 226 ePn 25 33.00 -9.3X
 i 25 42.00
 VAY 5.12 214 ePn 25 41.60 -0.9
 HRT 5.41 152 eP 25 45.00 -1.5
 BNT 5.42 167 eP 25 57.00 10.4X
 SPC 5.43 313 i(P) 25 46.90 0.0
 YLV 5.55 155 eP 25 45.00 -3.4X
 DST 6.28 163 eP 26 07.00 9.0X
 VBY 7.76 273 e(P)d 26 18.90 1.2
 KSP 8.47 311 eP 26 26.50 -0.5
 i 26 38.00
 KBA 9.09 284 eP 26 34.00 -1.4
 0.7s 2.60nm 3.9mb
 VDL 11.74 280 ePd 27 14.50 4.4X
 PGF 12.83 262 eP 27 30.80 6.7X
 0.5s 10.20nm 4.5mb
 DIX 13.19 279 eP 27 29.60 0.8
 EMS 13.52 279 ePd 27 33.60 0.7
 LPL 13.72 276 eP 27 37.90 2.4X

0.5s 5.10nm 4.2mb
 RSL 13.77 277 P 27 36.62 0.5
 FRF 14.17 269 eP 27 45.30 4.4X
 0.6s 7.20nm 4.2mb
 LMR 14.33 268 eP 27 47.20 4.3X
 0.6s 10.80nm 4.4mb
 NUR 14.92 357 eP 28 05.00 14.9X
 UPP 15.15 343 iP 27 55.10 2.2X
 LBF 15.49 283 eP 27 57.50 0.1
 0.7s 4.40nm 3.9mb
 LOR 15.56 284 eP 27 58.20 0.1
 0.7s 7.15nm 4.1mb
 SMF 15.61 282 eP 27 59.00 0.2
 0.7s 7.15nm 4.1mb
 SSF 15.81 283 eP 28 07.00 5.8X
 0.8s 8.05nm 4.1mb
 AVF 15.93 282 eP 28 03.20 0.5
 0.7s 5.50nm 4.0mb
 BGF 16.30 282 eP 28 06.90 -0.3
 0.6s 4.95nm 4.0mb
 HFS 16.34 337 eP 28 06.50 -1.1
 0.4s 4.50nm 4.2mb
 e 28 09.20
 e 28 12.50
 ePP 28 26.70
 MAF 16.52 281 eP 28 09.40 -0.6
 0.7s 2.20nm 3.6mb
 TCF 16.76 281 eP 28 13.20 0.3
 0.8s 3.35nm 3.8mb
 LSF 17.24 281 iPc 28 18.60 0.0
 0.4s 2.85nm 4.0mb
 RJF 17.38 278 eP 28 22.30 1.9
 0.5s 2.90nm 3.9mb
 LPO 17.73 276 eP 28 25.50 1.2
 0.5s 2.90nm 3.9mb
 NB2 17.78 335 P 28 23.40 -1.3
 0.6s 5.00nm 4.1mb
 LFF 17.99 277 eP 28 27.80 0.8
 0.5s 58.50nm 5.2mb X
 LDF 18.20 289 eP 28 28.10 -1.2
 0.4s 4.60nm 4.2mb
 MFF 18.34 282 eP 28 30.00 -0.8
 0.5s 5.85nm 4.2mb
 FLN 18.44 289 eP 28 30.50 -1.2
 0.6s 9.00nm 4.3mb
 GRR 18.69 288 eP 28 33.30 -1.1
 0.4s 3.45nm 4.1mb
 EPF 18.74 271 eP 28 36.50 1.4
 0.5s 1.80nm 3.7mb
 LPF 18.83 287 eP 28 34.20 -1.7
 0.5s 5.85nm 4.2mb
 EKA 20.96 308 P 28 59.00 1.6
 1.1s 6.50nm 4.0mb
 KIC 47.50 224 P 32 46.20 -0.4
 LIC 47.75 224 P 32 48.30 -0.2
 KKN 49.38 90 P 33 02.80 1.5
 GUN 49.73 89 P 33 05.40 1.3
 YKA 67.76 342 eP 35 07.50 -0.1
 0.5s 0.60nm 3.6mb
 S.D. = 1.0 on 47 of 66 obs.

& APR 28, 1991 21h 30m 35.64s
 59.882 N 152.661 W
 DEPTH = 94.8km
 SOUTHERN ALASKA (2)
 <AEIC>

RED 0.54 354 ePc 30 50.84 -0.7
 eS 31 02.74
 RSO 0.58 355 ePc 30 51.42 -0.6
 eS 31 03.90
 RS2 0.58 355 ePc 30 51.48 -0.6
 eS 31 03.93
 RDW 0.61 353 ePc 30 51.61 -0.6
 eS 31 03.68
 REF 0.61 358 ePc 30 51.59 -0.6
 eS 31 04.30
 RDN 0.64 355 ePc 30 51.76 -0.6
 eS 31 04.12
 XLV 0.64 132 eP 30 51.59 -0.7
 NCT 0.70 349 eP 30 52.06 -0.8
 eS 31 05.03
 NNL 0.71 76 iPc 30 53.14 0.3
 RDT 0.71 10 iPc 30 51.96 -1.0
 eS 31 04.72
 DFR 0.71 359 ePc 30 52.29 -0.8
 eS 31 05.45

PDB 0.78 264 iPd 30 52.80 -0.8
 eS 31 05.97
 CNPM 0.81 116 ePc 30 53.20 -0.7
 eS 31 06.94
 BRK 0.90 97 ePc 30 54.17 -0.8
 eS 31 08.34
 CDD 1.08 208 eP 30 55.88 -1.0
 MCNL 1.10 231 ePc 30 56.01 -1.2
 eS 31 11.76
 NKA 1.12 39 ePc 30 58.20 0.9
 SYI 1.28 174 ePd 30 58.37 -0.9
 CKL 1.33 7 iPc 30 59.20 -0.8
 eS 31 16.76
 SPU 1.34 13 ePc 30 59.05 -1.0
 eS 31 17.22
 SLKM 1.37 62 eP 30 59.02 -1.4
 eS 31 16.77
 BGL 1.39 5 ePc 31 00.10 -0.7
 eS 31 18.61
 CRP 1.41 10 eP 31 00.52 -0.6
 NCG 1.55 9 ePd 31 02.15 -0.6
 SEW 1.63 81 ePc 31 02.29 -1.3
 SUA 1.85 30 ePc 31 05.80 -0.8
 eS 31 29.08
 SVW 1.91 311 iPd 31 05.69 -1.7
 eS 31 29.23
 PMS 2.05 47 ePc 31 08.01 -1.3
 SKT 2.18 14 ePd 31 09.60 -1.3
 eS 31 35.98
 PLRM 2.44 44 eP 31 12.72 -1.7
 KNIM 2.51 77 ePc 31 12.67 -2.7
 KNK 2.58 52 ePc 31 14.06 -2.3
 GHO 2.64 42 eP 31 14.90 -2.3
 SML 2.87 46 eP 31 17.93 -2.4
 VLZ 3.37 65 eP 31 24.83 -2.3
 KLU 3.69 61 ePc 31 28.64 -2.9
 GLB 4.63 66 eP 31 41.34 -3.2
 37 obs. associated

& APR 28, 1991 21h 53m 03.20s
 37.258 N 121.628 W
 DEPTH = 8.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 3.3 (BRK).
 Ma=1.1*10**14 Nm (BRK).

MHC 0.08 353 iP 53 05.30 -0.3
 iS 53 07.35
 ARN 0.12 40 iPc 53 05.90 -0.1
 SAO 0.51 163 iPd 53 13.93 0.4
 PCC 0.65 292 iPc 53 15.26 -0.9
 iS 53 26.06
 BKS 0.78 322 iPc 53 18.20 -0.4
 eS 53 29.60
 BRK 0.79 321 iPc 53 18.30 -0.5
 iS 53 29.30
 LLA 0.84 139 iPc 53 19.47 -0.2
 ZSP 0.85 324 eP 53 19.67 -0.1
 iS 53 31.86
 PRS 0.95 167 iPd 53 20.99 -0.5
 iS 53 33.59
 CMB 1.26 51 ePc 53 26.40 -0.3
 iS 53 43.30
 FRI 1.56 99 eP 53 30.36 -0.8
 iS 53 49.98
 NWRM 1.56 321 eP 53 29.20 -2.0
 ORV 2.30 2 eP 53 41.00 -0.9
 BONR 2.73 74 e(P) 53 48.00 -0.4
 TNP 3.59 75 e(P) 54 01.00 0.4
 15 obs. associated

* APR 28, 1991 21h 55m 38.56±0.63s
 62.493 S ±9.0km 165.031 E ±17.6km
 DEPTH = 10.0km (geophysicist)
 4.5mb (5 obs.) 5.2Msz (2 obs.)
 BALLENY ISLANDS REGION (702)
 Ma=1.0*10**17 Nm (PPT).

SBA 15.45 179 iPd 59 18.00 0.3
 S 03 12.00
 KHZ 20.73 18 P 00 20.40 -0.9
 1.1s 146.00nm 5.3mb
 WEL 22.02 20 P 00 35.00 0.6
 S 04 44.00
 TAU 22.21 324 eP 00 45.00 8.7X
 SPA 27.67 180 eP 01 35.00 6.8X
 1.0s 10.00nm 4.5mb

28d 22h

DZM	40.41	2	iPc	03	19.00	0.7	TSRJ	20.59	233	P	59	07.40	0.8	HAU	78.95	340	eP	06	28.20	-0.3
ASPA	44.12	317	ePd	03	49.30	0.8	CN2	21.76	265	P	59	17.00	-1.3		0.7s	3.60nm			4.4mb	
	1.3s	11.10nm				4.5mb	SNY	23.92	263	eP	59	40.60	1.2	Z	20s	0.08um			4.0msz	
CTA	44.31	334	iPd	04	03.00	12.9X	ANM	24.89	40	eP	59	48.70	0.2	BSF	79.01	340	eP	06	28.40	-0.5
	1.3s	48.08nm					TTA	28.67	45	eP	00	23.60	0.4		0.6s	3.60nm			4.5mb	
WB2	47.47	319	iPc	04	15.10	-0.1	SVW	28.78	49	eP	00	25.10	0.9	OSS	79.28	337	ePd	06	30.90	0.4
	0.9s	3.00nm				4.4mb	IMA	30.00	39	eP	00	35.20	0.1	LLS	79.40	338	ePd	06	32.00	0.8
		i	05	44.20			PMR	0.6s	8.40nm		00	51.50	0.0	CTI	79.48	336	P	06	30.90	-0.6
WRA	47.47	319	P	04	15.00	-0.2		31.89	48	eP	00	51.50	0.0	FLN	79.57	345	eP	06	31.70	-0.1
	1.3s	2.60nm				4.2mb	FBA	0.6s	7.80nm					0.6s	9.90nm			4.9mb		
LPB	90.96	130	P	08	49.00	4.7X	TOA	32.37	41	eP	00	56.10	0.4	Z	20s	0.08um			4.0msz	
ZOBO	91.19	130	P	08	46.00	0.4	INK	33.24	46	eP	01	04.40	1.0	VDL	79.64	337	iPd	06	33.10	0.6
		LR	39	02.00			GYA	37.82	35	eP	01	43.00	0.9	LDF	79.67	344	eP	06	32.10	-0.2
SIV	93.85	136	(P)	08	53.00	-4.2X	YKA	44.40	257	P	02	37.40	0.7		0.5s	7.30nm			4.9mb	
SSE	99.67	323	eP	09	30.00	7.0X		47.12	39	eP	02	57.40	-0.3	GRR	80.00	345	eP	06	34.30	0.2
Z	20s	0.60um				5.1msz	PNT	0.6s	3.70nm					0.6s	20.75nm			5.2mb		
		e	13	04.00				51.69	56	eP	03	32.00	-1.0	LOR	80.18	341	eP	06	34.90	-0.2
		eS	21	08.00			EDM	0.6s	4.00nm					0.6s	9.00nm			4.9mb		
INK	137.70	29	ePKP	15	18.00	15.2X	CHG	52.63	49	eP	03	39.50	-0.5	Z	20s	0.05um			3.9msz	
BBTK	143.67	254	ePKP	15	13.00	-1.5	KEV	54.82	257	ePc	03	57.40	1.0	LPF	80.37	345	eP	06	36.40	0.3
SKO	150.31	243	ePKP	15	30.00	5.0X	GUN	0.9s	58.82nm					0.6s	12.65nm			5.0mb		
		i	15	37.00				54.93	341	eP	03	53.00	-3.6X	MMK	80.41	338	ePd	06	37.60	1.0
MLR	151.20	253	ePKP	15	41.00	14.6X	SOD	0.3s	30.00nm					0.6s	5.40nm			4.7mb		
OBN	152.95	278	ePKP	15	44.00	15.6X	FFC	56.93	339	iP	04	09.50	-1.5	SSF	80.45	341	eP	06	36.40	-0.1
Z	22s	0.60um				5.4msz		56.96	43	ePd	04	10.60	-0.8		0.6s	5.40nm			4.7mb	
		e	16	11.00			KKN	0.6s	8.00nm					DIX	80.52	339	ePd	06	38.20	1.0
		LQ	02	50.00				57.19	275	P	04	13.04	-0.5	EMS	80.64	339	ePd	06	38.30	0.5
S.D. = 0.9 on 9 of 19 obs.							PKI	0.3s	19.00nm					AVF	80.74	341	eP	06	38.10	0.1
?	APR 28, 1991 22h 19m 27.19 ± 3.54s						DMN	57.25	275	P	04	13.46	-0.7		0.6s	8.10nm			4.8mb	
	41.432 N ± 28.9km 126.107 W ± 17.9km							0.6s	12.00nm					SMF	80.78	341	eP	06	38.20	-0.1
	DEPTH = 10.0km (geophysicist)						GAR	57.42	275	P	04	15.00	-0.3		0.6s	3.60nm			4.5mb	
	3.0mb (1 obs.)						FRB	0.5s	32.00nm					BCF	81.07	342	eP	06	39.80	0.0
OFF COAST OF NORTHERN CALIFORNIA (34)							KAF	58.96	295	eP	04	24.00	-1.7	RSL	81.07	339	P	06	40.65	0.6
PGO	4.83	32	P	20	42.27	0.6		61.30	21	eP	04	39.00	-2.2	OHR	81.16	327	eP	06	39.70	-0.7
NLO	5.04	22	P	20	44.93	0.3	CLC	61.31	336	iP	04	38.80	-2.5X	LSO	81.16	338	P	06	41.13	0.5
RVW	5.31	26	P	20	48.94	0.6		0.4s	1.10nm					LPL	81.21	339	eP	06	41.70	0.9
LVP	5.35	29	P	20	48.83	-0.3	CLC		esP	04	40.80			0.6s	20.75nm			5.2mb		
MTMW	5.39	30	P	20	48.98	-0.7	SBB	61.37	68	eP	04	41.00	-1.2	LPG	81.22	339	eP	06	41.90	0.9
JLK	5.51	30	P	20	50.92	-0.5	GSC	62.00	69	eP	04	47.00	0.6		0.6s	23.45nm			5.3mb	
HSR	5.52	30	P	20	51.87	0.2	NUR	62.19	67	eP	04	49.00	1.3	BOB	81.25	337	Pd	06	41.60	0.8
CDFW	5.53	31	P	20	51.04	-0.5	GLA	63.09	335	eP	04	51.60	-1.5	SFI	81.39	335	P	06	42.70	1.3
ESD	5.56	30	P	20	52.33	0.3	UPP	64.93	338	eP	05	05.00	-0.6	RSP	81.43	338	P	06	40.92	-0.9
ERK	5.58	28	P	20	52.59	0.2	NB2	65.43	338	iP	05	07.10	-1.2	MAF	81.44	342	eP	06	42.40	0.6
SOSW	5.60	30	P	20	52.64	0.1		65.76	342	P	05	08.40	-2.1		0.6s	10.80nm			5.0mb	
CZM	5.64	26	P	20	53.34	0.3	ALO	0.6s	5.10nm					TCF	81.45	342	eP	06	42.20	0.4
ASR	5.74	33	P	20	54.55	0.0	HYB	68.46	61	e(P)	05	17.00	-11.1X		0.6s	4.50nm			4.6mb	
KOSW	5.77	28	P	20	55.10	0.2	SCH	68.91	272	iPc	05	30.50	-0.3	MME	81.45	336	P	06	43.00	0.9
LMW	5.91	26	P	20	57.47	0.5	WB2	0.6s	60.00nm					PGD	81.47	335	P	06	43.80	1.7
CPW	5.94	20	P	20	56.37	-0.9		69.54	25	eP	05	33.00	-1.1	ARV	81.48	334	Pd	06	42.30	0.3
GLK	6.07	31	P	20	59.16	0.0		72.27	201	iPd	05	49.70	-1.2	MFF	81.60	344	eP	06	43.20	0.7
JBO	6.09	46	P	20	59.24	-0.1	WRA	0.6s	6.10nm						0.6s	7.20nm			4.8mb	
LON	6.15	29	P	21	00.03	-0.3			e	06	00.20			BDI	81.60	336	P	06	43.70	1.0
WPW	6.20	30	P	21	00.88	-0.2	GBA	72.27	202	P	05	49.00	-1.9	LSF	81.62	342	eP	06	43.10	0.4
RVC	6.26	27	P	21	02.36	0.5		0.6s	6.20nm						0.7s	8.80nm			4.8mb	
FMW	6.36	29	P	21	03.19	-0.2	TUL	72.44	270	P	05	53.00	0.9	CRE	81.64	335	P	06	43.30	0.4
MXC	6.63	37	P	21	07.14	0.0		0.7s	5.60nm					BNI	81.66	339	P	06	43.80	0.8
JCW	7.38	22	P	21	17.23	-0.4	EKA	73.53	54	e(P)	05	57.00	-1.2	PCP	81.69	337	P	06	42.36	-0.7
YKA	22.18	14	eP	24	24.80	0.1		0.8s	7.70nm					HRI	81.73	313	eP	06	45.00	1.4
	0.6s	0.40nm				3.0mb	CLL	73.61	348	Pd	05	58.00	-0.3	RRL	81.76	339	P	06	44.00	0.3
S.D. = 0.4 on 25 of 25 obs.								0.5s	7.20nm					SSB	81.93	340	P	06	45.04	0.7
APR 28, 1991 23h 54m 30.97 ± 1.11s							WTS	74.29	337	iP	06	01.50	-0.8	DOI	82.04	338	P	06	43.90	-1.1
50.010 N ± 6.1km 156.123 E ± 4.5km								0.6s	9.00nm					PZZ	82.07	338	P	06	44.30	-0.9
DEPTH = 66.3 ± 10.8 km							PRU	75.08	341	eP	06	07.00	0.1	FIN	82.08	337	P	06	44.41	-0.7
4.8mb (53 obs.)							MLR	0.6s	4.00nm					ROB	82.08	338	P	06	44.41	-0.8
KURIL ISLANDS (221)							ASPA	75.09	335	eP	06	07.00	0.0	ENR	82.26	338	P	06	44.71	-1.4
KUSJ	10.46	233	eP	57	00.40	0.0		75.51	326	eP	06	10.00	0.4	STV	82.27	338	P	06	44.41	-1.7
		S		58	46.10			75.96	201	eP	06	12.00	-0.2	RJF	82.53	342	eP	06	48.60	1.2
ASAJ	10.92	242	P	57	10.40	3.8X	KHC	0.6s	7.50nm						0.6s	3.60nm			4.5mb	
HOOJ	11.71	234	P	57	18.10	0.9	GRF		iP	06	36.90	95kmX	SBF	82.60	338	eP	06	47.70	-0.2	
		S		59	15.80		ENN	76.13	336	eP	06	13.00	0.0		0.6s	14.45nm			5.1mb	
MRRJ	12.88	240	eP	57	32.90	0.3		76.22	337	ePKP	06	13.90	0.5	CAF	82.79	342	eP	06	49.70	0.9
		eS		59	42.80			76.43	341	eP	06	15.00	0.5		0.6s	6.30nm			4.8mb	
OFUJ	14.99	229	eP	57	57.30	-3.0X	MEM	0.6s	7.00nm					SDI	82.87	333	Pd	06	49.00	-0.3
		eS		00	29.10		DOU	76.56	341	Pd	06	15.50	0.3	LFF	83.04	343	eP	06	50.90	0.9
NIIJ	17.74	230	P	58	36.10	1.4		77.34	342	P	06	19.70	0.1		0.6s	9.00nm			4.9mb	
MAT	18.68	231	eP	58	46.00	-0.2	KBA	0.7s	7.80nm					FRF	83.07	338	eP	06	50.30	0.1
		eS		59	09.00			78.08	335	iPd	06	24.50	0.6		0.6s	5.40nm			4.7mb	
CHJJ	18.69	228	P	58	46.10	-0.2		0.5s	14.30nm					LPO	83.20	342	eP	06	51.60	0.8
MDJ	18.73	263	eP	58	45.00	-1.7	CDF		i	06	27.80				0.6s	9.				

PGF 83.44 336 eP 06 52.20 0.0
0.6s 14.45nm 5.1mb
EPF 84.95 342 eP 07 00.00 0.8
0.6s 4.50nm 4.7mb
MBH 85.04 312 eP 07 01.00 0.5
PPD 144.71 48 ePKP 14 00.70 -0.9
S.D. = 0.9 on 120 of 126 obs.

? APR 29, 1991 00h 23m 03.29±4.62s
10.743 N ±19.9km 62.131 W ±44.4km
DEPTH = 70.0km (geophysicist)
NEAR COAST OF VENEZUELA (97)
MD 3.9 (TRN).

TCE 0.37 97 eP 23 15.10 -0.1
eS 23 27.43
TRN 0.72 97 iP 23 18.67 0.1
eS 23 31.31
TPP 0.79 122 eP 23 19.48 0.0
eS 23 32.79
TBH 1.08 104 eP 23 23.01 0.0
eS 23 38.37
PIG 1.33 72 eP 23 27.08 0.7
eS 23 46.70
TPR 1.40 72 eP 23 27.31 0.0
BOT 1.45 73 eP 23 27.30 -0.7
eS 23 47.91
S.D. = 0.5 on 7 of 7 obs.

? APR 29, 1991 00h 27m 36.78±1.25s
42.347 N ±9.4km 13.488 E ±10.7km
DEPTH = 5.0km (geophysicist)
CENTRAL ITALY (381)

AOU 0.06 276 Pc 27 37.90 -0.6
eSg 27 40.60
MNS 0.60 274 P 27 49.30 0.5
eSg 27 57.30
SDI 0.69 159 P 27 50.50 0.0
eSg 28 00.90
ARV 1.22 341 P 28 00.00 0.1
S.D. = 0.8 on 4 of 4 obs.

? APR 29, 1991 00h 51m 44.81±10.72s
13.885 N ±93.5km 92.588 W ±22.2km
DEPTH = 61.7 ± 41.3 km
4.6mb (1 obs.)
OFF COAST OF CHIAPAS, MEXICO (68)

TPX 1.06 17 iP 52 04.00 0.1
iS 52 14.50
SCX 2.83 359 eP 52 28.70 0.1
iS 52 56.00
IISM 6.84 318 eP 53 24.00 -0.8
(S) 54 35.00
PPM 7.75 312 eP 53 38.50 0.6
TUL 22.12 353 e(P) 56 51.40 15.0X
0.8s 8.00nm
ALQ 24.42 332 e(P) 57 00.00 0.9
YKA 51.01 347 eP 00 41.20 -1.0
0.8s 4.70nm 4.6mb
INK 60.39 344 eP 01 50.00 0.4
S.D. = 1.0 on 7 of 8 obs.

* APR 29, 1991 01h 52m 36.56±0.46s
60.872 N ±8.8km 167.007 E ±8.8km
DEPTH = 33.0km (normol)
4.5mb (16 obs.)
EASTERN SIBERIA (671)

INK 25.58 48 eP 58 04.00 0.4
YKA 35.10 52 eP 59 27.60 -0.5
0.6s 2.00nm 4.2mb
FFC 45.14 55 eP 00 51.00 -0.2
1.0s 10.00nm 4.7mb
FRB 48.85 29 eP 01 20.00 0.0
NB2 57.00 346 P 02 20.00 -0.7
0.7s 3.50nm 4.5mb
UPP 57.29 342 iP 02 21.50 -1.2
EKA 63.88 354 P 03 08.00 0.4
0.8s 3.80nm 4.5mb
CDF 69.84 346 eP 03 45.50 0.1
HAU 70.35 346 eP 03 48.40 -0.1
0.9s 3.30nm 4.4mb
GRR 70.65 351 eP 03 50.20 0.0
0.7s 6.60nm 4.8mb
LOR 71.35 348 eP 03 54.20 -0.3

0.8s 6.05nm 4.7mb
SSF 71.59 348 eP 03 55.80 -0.1
1.0s 4.00nm 4.4mb
LBF 71.62 348 eP 03 55.60 -0.6
AVF 71.88 348 eP 03 57.70 0.1
0.9s 6.55nm 4.6mb
SMF 71.97 348 eP 03 58.10 -0.1
0.9s 3.30nm 4.3mb
BGF 72.16 349 eP 03 59.30 0.0
0.7s 3.30nm 4.4mb
TCF 72.49 349 eP 04 01.40 0.1
MAF 72.52 349 eP 04 01.70 0.3
LSF 72.59 349 eP 04 01.90 0.1
LPG 72.78 346 eP 04 03.90 0.6
0.8s 2.70nm 4.3mb
CAF 73.85 349 eP 04 10.00 0.8
LFF 73.95 350 eP 04 10.50 0.7
0.5s 2.90nm 4.5mb
LPO 74.17 350 eP 04 11.50 0.5
0.5s 2.90nm 4.5mb
EPF 75.88 350 eP 04 20.90 -0.1
WB2 84.73 211 iPd 05 08.10 0.0
0.8s 2.90nm 4.5mb
WRA 84.74 211 P 05 08.00 -0.1
1.1s 1.50nm 4.1mb
S.D. = 0.5 on 26 of 26 obs.

APR 29, 1991 03h 21m 55.76±0.97s
49.178 N ±10.5km 7.007 E ±8.9km
DEPTH = 10.0km (geophysicist)
GERMANY (543)

RUP 0.53 4 ePg 22 05.96 -0.4
WLF 0.74 311 iPd 22 09.05 -1.2
iS 22 18.54
TNS 1.40 41 ePnc 22 21.00 -0.4
MEM 1.57 336 iP 22 25.00 1.3
ENN 1.74 337 iPnc 22 27.80 1.7
0.8s 42.00nm
eSn 22 52.00
DOU 1.82 301 Pc 22 26.50 -0.8
MOX 3.32 62 e(P) 23 02.00 13.2X
e 23 44.50
SOTA 3.43 123 iPnd 22 51.30 0.9
iSn 23 48.80
KHC 4.31 88 ePn 23 02.00 -0.9
Pg 23 19.00
e 23 51.00
Sg 24 17.00
KBA 4.74 114 i(Pn) 23 08.90 -0.2
e 23 24.00
e 24 03.00
S.D. = 1.2 on 9 of 10 obs.

? APR 29, 1991 03h 46m 00.91±2.86s
51.166 N ±27.4km 15.916 E ±16.3km
DEPTH = 10.0km (geophysicist)
POLAND (548)

KSP 0.40 143 eP 46 09.00 -0.1
iS 46 18.50
BRG 1.28 258 iPg 46 24.10 -0.5
iSg 46 43.70
PRU 1.47 217 Pn 46 27.80 0.4
Pg 46 29.50
e 46 31.40
iSn 46 46.00
eSg 46 54.00
CLL 1.84 276 (Pg) 46 57.20 0.3
iSg 46 57.20
KHC 2.53 217 Pn 46 48.50 5.7X
ePg 46 53.00
Sn 47 16.00
eSg 47 32.00
MOX 2.77 261 ePg 46 53.00 6.8X
iSg 47 31.00
S.D. = 0.7 on 4 of 6 obs.

APR 29, 1991 04h 01m 37.33±0.35s
41.712 N ±4.0km 24.266 E ±3.1km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)
MD 2.7 (THE).

RZN 0.34 94 iPg 01 44.00 -0.4
MMB 0.42 253 iPg 01 45.00 -1.0
PLD 0.51 40 iPg 01 48.00 0.3

SRS 0.78 221 iPc 01 52.08 -0.5
eS 02 02.44
PGB 0.84 355 iPg 01 53.00 -0.6
KDZ 0.86 94 iPd 01 53.00 -1.0
KK8 0.90 280 iPg 01 54.00 -0.6
DIM 1.00 70 iPc 01 57.00 0.7
SOH 1.12 218 iPd 01 57.90 -0.5
eS 02 13.40
VTS 1.18 319 iPg 02 00.00 0.5
VAY 1.33 254 iPn 02 03.30 1.4
iSn 02 22.00
OUR 1.39 189 ePc 02 02.24 -0.5
eS 02 21.16
THE 1.46 223 ePd 02 04.16 0.5
eS 02 23.68
ALN 1.57 121 ePc 02 05.84 0.6
eS 02 26.04
GRG 1.59 242 ePd 02 05.84 0.2
eS 02 27.44
PVL 1.70 27 iPd 02 07.00 -0.1
PAIG 1.84 194 iPd 02 08.50 -0.7
eS 02 33.70
LIT 2.10 220 iPc 02 13.88 0.9
eS 02 40.92
DMK 2.61 86 ePn 02 23.50 3.2X
KGT 2.62 118 iPn 02 20.30 -0.1
CTT 3.18 99 ePn 02 27.10 -1.3
DST 3.93 121 ePn 02 41.00 2.0
MLR 3.97 17 eP 02 45.00 5.3X
BZS 4.35 335 ePc 02 58.00 13.1X
S.D. = 0.9 on 21 of 24 obs.

? APR 29, 1991 04h 02m 39.87±4.16s
16.545 N ±15.9km 61.051 W ±32.4km
DEPTH = 32.5 ± 18.8 km
LEEWARD ISLANDS (92)
ML 2.6 (FDF).

DEG 0.23 182 eP 02 46.75 0.0
S 02 49.40
SFG 0.32 206 eP 02 47.90 0.1
SEG 0.46 252 ePd 02 49.78 -0.1
S 02 55.50
PAG 0.79 230 eP 02 54.70 0.0
S 03 04.70
BPA 0.92 303 eP 02 56.50 0.0
S 03 08.20
S.D. = 0.1 on 5 of 5 obs.

? APR 29, 1991 05h 12m 45.79±3.62s
16.960 S ±69.6km 179.093 W ±53.0km
DEPTH = 671.0 ± 38.5 km
4.3mb (6 obs.)
FIJI ISLANDS REGION (181)

DZM 14.55 247 iPd 15 50.00 1.2
STK 38.53 240 iPd 19 14.70 -1.4
0.5s 4.10nm 4.2mb
WB2 44.16 259 iPc 20 00.30 -0.1
0.3s 3.80nm 4.3mb
iPcP 21 28.80
WRA 44.17 259 P 20 00.00 -0.5
0.4s 13.60nm 4.7mb
ASPA 44.43 253 iPd 20 02.30 -0.2
0.4s 25.80nm 5.0mb
iPcP 21 29.10
iPP 22 03.40
eS 25 54.70
PNT 84.33 35 eP 24 10.00 -0.6
0.7s 5.00nm 4.2mb
INK 91.15 15 eP 24 42.00 0.8
YKA 93.75 25 eP 24 53.40 -0.7
0.6s 0.40nm 3.7mb
NB2 135.36 353 PKP 30 52.40 -0.4
0.7s 0.90nm
CLL 144.40 347 iPKPd 31 10.40 1.3
0.8s 14.00nm
PRNI 146.19 299 ePKP 31 14.00 1.3
CDF 148.20 352 ePKP 31 20.00 4.5X
0.6s 3.60nm
FLN 148.26 2 ePKP 31 19.50 4.1X
0.6s 7.20nm
LDF 148.44 1 ePKP 31 19.90 4.2X
0.5s 2.90nm
GRR 148.62 2 ePKP 31 20.50 4.6X
0.4s 3.45nm
HAU 148.72 353 ePKP 31 21.00 4.8X

29d 05h

0.5s 3.65nm
BSF 148.83 352 ePKP 31 21.60 5.1X
0.5s 3.65nm
LPF 148.97 3 ePKP 31 21.10 4.6X
0.6s 6.30nm
LOR 149.68 356 ePKP 31 22.70 5.1X
0.7s 7.15nm
SSF 149.91 356 ePKP 31 23.40 5.5X
0.5s 2.90nm
LBF 149.95 356 ePKP 31 23.50 5.4X
0.7s 3.30nm
MFF 150.43 1 ePKP 31 24.50 5.8X
0.6s 2.70nm
BGF 150.44 357 ePKP 31 24.80 6.0X
0.5s 2.90nm
TCF 150.74 358 ePKP 31 25.10 5.8X
0.7s 2.20nm
MAF 150.79 358 ePKP 31 26.00 6.7X
S.D. = 1.1 on 11 of 25 obs.

? APR 29, 1991 06h 03m 00.82 ± 3.52s
31.159 S ± 57.1km 68.311 W ± 21.0km
DEPTH = 80.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.22 219 iPc 03 13.00 0.1
S 03 25.00
CFA 0.45 172 iPc 03 14.50 0.1
eS 03 26.00
ZON 0.50 219 iPd 03 14.30 -0.5
eS 03 26.30
RTCB 0.53 232 iPd 03 15.50 0.4
eS 03 27.60
RTBS 1.10 243 ePc 03 21.30 0.0
S.D. = 0.4 on 5 of 5 obs.

APR 29, 1991 06h 46m 03.69 ± 0.95s
37.968 N ± 6.5km 142.466 E ± 8.2km
DEPTH = 37.9 ± 7.6 km
4.5mb (5 obs.) 4.1msz (1 obs.)
OFF EAST COAST OF HONSHU, JAPAN (229)

OFUJ 1.27 331 iPd 46 25.80 0.5
eS 46 44.50
YAMJ 1.93 277 iPd 46 35.10 0.4
eS 47 02.30
KAKJ 2.54 227 P 46 42.00 -1.4
S 47 14.60
NIIJ 2.85 256 eP 46 47.50 -0.3
S 47 26.00
CHJJ 3.37 236 P 46 54.90 -0.3
S 47 34.10
MAT 3.68 249 eP 47 00.00 0.3
eS 47 55.00
MTMJ 3.97 251 eP 47 05.10 1.3
IIDJ 4.42 237 eP 47 11.60 1.5
eS 48 07.30
HOOJ 4.45 8 P 47 10.40 -0.1
S 48 00.30
MRRJ 4.58 347 eP 47 12.40 0.1
eS 48 09.40
KUSJ 5.40 18 P 47 21.50 -2.3
eS 48 20.20
TSRJ 5.74 247 P 47 31.40 2.7X
ASAJ 6.15 1 P 47 34.90 0.5
MDJ 11.74 309 eP 48 53.50 2.0
CN2 14.12 300 eP 49 30.00 6.8X
TIA 20.28 273 eP 50 38.40 -0.4
BJI 20.52 284 eP 50 39.00 -2.1
TIY 23.67 279 eP 51 10.80 -1.9
Z 20s 0.63um 4.1msz
HHC 23.99 287 eP 51 14.80 -0.9
YAK 25.34 346 eP 51 26.70 -1.6
e 56 12.00
XAN 27.33 272 eP 51 46.00 -1.0
GYA 32.21 260 iPd 52 30.00 -0.6
PP 52 40.80
GTA 33.10 286 P 52 39.20 1.0
1.0s 10.00nm 4.7mb
WMO 41.17 296 eP 53 47.50 1.4
GUN 47.90 275 P 54 40.98 0.4
PKI 48.43 275 P 54 44.60 0.0
KKK 48.43 276 P 54 44.84 0.3
DMN 48.65 275 P 54 46.42 0.2
GKN 48.83 276 P 54 47.92 0.3
INK 53.18 28 eP 55 21.00 1.3

WB2 58.11 189 eP 55 51.80 -3.9X
WRA 58.11 189 P 55 54.00 -1.7
0.7s 4.70nm 4.7mb
ASPA 61.83 189 eP 56 20.30 -1.0
0.9s 4.00nm 4.5mb
YKA 62.58 31 eP 56 25.60 -0.2
0.7s 0.50nm 3.8mb
NDF 64.44 143 eP 56 54.10 15.6X
SGE 64.53 142 eP 56 57.90 18.7X
VUN 65.15 142 ePd 56 45.20 2.1
NB2 73.65 338 P 57 35.30 0.5
0.7s 2.90nm 4.4mb
ZOBO 145.49 60 PKP 05 41.70 1.2
Z 24s 0.28um 5.0mszX
LR 41 00.00
LPB 145.69 60 PKP 05 41.00 0.4
CCH 147.62 59 PKP 05 40.00 4.4X
SIV 149.84 50 PKPc 05 52.30 5.6X
S.D. = 1.2 on 35 of 42 obs.

APR 29, 1991 06h 54m 54.26 ± 0.28s
20.762 S ± 7.7km 174.146 W ± 7.8km
DEPTH = 39.0km (2 depth phases)
5.2mb (27 obs.) 4.9msz (5 obs.)
TONGA ISLANDS (173)

Mo=1.3+10**17 Nm (PPT).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 25C
Centroid Location:
Origin Time 06:54:57.2 0.9
Lot 20.88S 0.12 Lon 173.84W 0.09
Dep 15.0 FIX Half-duration 1.6
Moment Tensor; Scale 10**16 Nm
Mrr= 6.65 0.45 Mtt= 0.64 0.64
Mff=-6.01 0.74 Mrt= 2.18 1.68
Mrf= 6.76 1.89 Mtf=-3.24 0.47
Principal Axes:
T Val= 9.63 Plg=67 Azm=281
N 0.81 4 21
P -10.45 22 113
Best Double Couple: Mo=1.0+10**17
NP1: Strike=212 Dip=23 Slip= 101
NP2: 20 60 85

SVA 7.46 289 eP 56 48.20 4.8X
eS 58 12.80
RAR 13.43 94 P 57 56.00 -8.8X
S 00 00.00
DZM 18.12 262 iPc 59 06.40 1.6
NGZ 20.36 203 eP 59 30.00 -0.3
PGZ 21.41 200 eP 59 40.00 -0.8
THZ 23.63 205 eP 00 02.70 -0.1
KHZ 23.95 203 P 00 06.40 0.6
LTZ 24.74 204 P 00 16.30 2.8X
MHZ 27.83 206 eP 00 43.10 1.0
MSZ 28.09 208 eP 00 46.70 2.4
RMQ 34.38 253 iPd 01 38.40 -1.5
CNB 35.10 238 eP 01 45.00 -1.1
CTA 37.05 264 iPd 02 01.90 -0.7
0.7s 23.29nm 5.2mb
eS 08 06.00
CMS 37.31 245 ePd 02 04.00 -0.6
0.4s 10.00nm 5.1mb
TOO 38.69 235 ePd 02 16.40 0.2
0.6s 17.00nm 5.0mb
STK 40.94 245 iPd 02 34.50 -0.3
0.6s 5.70nm 4.5mb
ASPA 47.97 256 eP 03 29.00 -2.5
0.6s 14.10nm 5.2mb
Z 18s 1.30um 4.9msz
WB2 48.12 261 iPd 03 29.50 -3.2X
0.7s 5.60nm 4.7mb
iPcP 05 00.10
WRA 48.13 261 P 03 30.00 -2.8X
0.8s 7.90nm 4.8mb
WARB 54.19 252 eP 04 17.00 -1.4
NWA0 61.47 243 eP 05 09.30 -0.3
RKG 61.52 242 eP 05 10.00 0.1
MUN 62.46 244 eP 05 15.00 -1.2
MAT 72.61 321 eP 06 18.00 -1.7
1.5s 63.89nm 5.4mb
eS 16 00.00
PRS 75.56 42 e(P) 06 36.90 0.1
PRI 75.88 42 e(P) 06 40.20 1.4
ARN 76.12 41 P 06 41.80 1.8
CMB 77.25 41 ePc 06 45.50 -0.8

ORV 77.56 39 e(P) 06 47.10 -0.8
MIN 78.01 38 eP 06 49.80 -0.7
TNP 79.25 42 P 06 57.00 -0.5
1.0s 16.25nm 5.0mb
SSE 80.65 308 P 07 05.00 0.2
1.0s 12.00nm 4.8mb
Z 16s 0.40um 4.9mszX
PP 07 14.20
LON 82.11 33 P 07 11.40 -0.7
MSU 82.73 44 P 07 16.80 1.0
MDJ 82.85 323 eP 07 16.00 0.1
1.0s 10.00nm 4.8mb
PP 07 26.50
DUG 83.26 43 P 07 18.20 -0.2
DAU 84.37 43 P 07 24.40 0.2
PMR 84.49 12 eP 07 23.40 -0.5
TTA 84.63 8 eP 07 25.30 0.6
1.0s 72.50nm 5.8mb
PV09 84.74 46 P 07 26.30 0.2
CN2 84.74 321 Pc 07 26.00 0.4
1.0s 10.00nm 4.9mb
Z 20s 0.60um 5.0msz
PP 07 35.00
ALO 84.78 50 eP 07 26.80 0.6
1.2s 18.36nm 5.1mb
Z 18s 0.31um 4.7msz
ANMO 84.78 50 P 07 27.00 0.8
1.2s 21.48nm 5.2mb
PNT 84.90 32 eP 07 25.00 -1.2
0.8s 19.00nm 5.3mb
WHN 85.53 305 eP 07 30.70 0.9
1.4s 50.00nm 5.5mb
PP 07 41.00
TOA 85.54 13 P 07 29.20 -0.1
1.0s 72.50nm 5.8mb
pP 07 41.20 39km
IPM 86.78 276 ePc 07 38.10 1.8
0.9s 30.40nm 5.5mb
SXM 87.55 38 eP 07 39.60 0.0
FBA 87.77 11 eP 07 39.20 -0.7
1.0s 40.00nm 5.6mb
GOL 87.87 46 P 07 40.50 -0.8
0.8s 2.98nm 4.6mb
IMA 87.94 8 eP 07 40.90 0.0
1.5s 22.50nm 5.2mb
BJI 88.64 314 eP 07 45.00 0.4
2.0s 80.00nm 5.7mb
GYA 89.93 298 P 07 52.60 1.4
PP 08 02.40
SES 89.99 35 eP 07 51.00 0.2
TIY 90.16 311 Pd 07 53.20 1.2
XAN 91.18 306 Pc 07 57.50 0.8
HHC 92.14 313 eP 08 02.00 0.9
KMI 92.70 296 Pc 08 06.00 1.9
1.5s 50.00nm 5.7mb
PP 08 15.50
INK 93.62 14 eP 08 06.00 -1.1
pP 08 18.00 39km
CHG 93.74 289 ePc 08 10.30 1.6
1.0s 12.25nm 5.3mb
YKA 95.27 24 eP 08 13.50 -1.3
0.8s 1.40nm 4.5mb
LZH 95.81 306 eP 08 17.50 -0.6
1.5s 42.00nm 5.7mb
Z 15s 0.39um 5.0mszX
PP 08 28.00
EKA 144.82 9 PKPc 14 26.50 -1.8
1.0s 9.00nm
WTS 148.82 359 ePKP 14 39.00 4.1X
0.7s 10.00nm
CLL 149.00 351 iPKPc 14 39.80 4.5X
1.3s 34.00nm
i 14 50.90
BRG 149.28 350 iPKPc 14 40.50 4.8X
0.8s 20.00nm
e 14 52.00
SPC 149.39 341 ePKP 14 35.30 -0.9
e 14 40.70
MOX 149.83 353 ePKP 14 42.00 5.4X
1.7s 48.00nm
PRU 150.03 349 PKP 14 42.50 5.6X
1.6s 35.00nm
ENN 150.06 360 ePKP 14 42.50 5.6X
0.7s 6.00nm
MLR 150.31 331 ePKPd 14 45.00 7.4X
BHL 150.59 303 PKP 14 44.50 6.1X
PSZ 150.63 341 ePKP 14 44.00 6.0X

DOU 150.71 2 PKPc 14 44.20 6.3X
 GRF 150.82 353 ePKPc 14 44.70 6.6X
 Z 20s 0.20um 4.9Msz
 e 14 50.70
 e 14 56.10
 ABH 150.91 358 ePKP 14 44.39 6.1X
 KHC 151.03 349 iPKPc 14 44.80 6.3X
 ZST 151.17 344 e(PKP) 14 39.80 1.2
 e 14 53.20
 SRO 151.19 342 ePKP 14 44.90 6.2X
 MML 151.22 300 ePKP 14 46.00 6.7X
 FLN 151.60 9 ePKP 14 45.90 6.6X
 0.7s 8.80nm
 LDF 151.82 8 ePKP 14 46.40 6.8X
 0.7s 7.70nm
 GRR 151.91 10 ePKP 14 46.60 6.9X
 0.7s 12.15nm
 PRNI 152.10 296 ePKP 14 48.00 7.4X
 LPF 152.23 10 ePKP 14 47.40 7.2X
 0.7s 16.55nm
 MBH 152.32 295 ePKP 14 49.00 8.0X
 CDF 152.39 358 ePKP 14 47.80 7.2X
 0.9s 8.20nm
 HAU 152.82 359 ePKP 14 48.90 7.8X
 0.5s 2.90nm
 BSF 152.98 359 ePKP 14 49.00 7.6X
 LOR 153.51 3 ePKP 14 50.40 8.3X
 0.9s 8.20nm
 Z 20s 0.35um 5.2Msz
 SSF 153.70 4 ePKP 14 51.00 8.7X
 0.7s 5.50nm
 LBF 153.80 3 ePKP 14 51.10 8.6X
 BGF 154.15 5 ePKP 14 51.90 8.9X
 0.6s 3.60nm
 MAF 154.46 5 ePKP 14 52.70 9.3X
 EPF 157.32 11 ePKP 14 59.30 12.0X
 S.D. = 1.1 on 60 of 95 obs.

& APR 29, 1991 07h 04m 48.70s
 32.100 N 115.620 W
 DEPTH = 6.0km (geophysicist)
 CALIFORNIA-MEXICO BORDER REGION (45)
 <PAS-P>. ML 3.5 (PAS).

IKP 0.69 323 iPc 05 01.40 -1.0
 eS 05 10.10
 BAR 1.06 303 iPc 05 07.60 -1.5
 GLA 1.16 35 eP 05 08.70 -2.1
 CPE 1.47 302 iPc 05 14.50 -1.3
 PLM 1.63 320 eP 05 16.30 -1.9
 PEC 2.21 324 eP 05 24.00 -2.4
 6 obs. associated

APR 29, 1991 07h 25m 21.42±0.54s
 42.601 N ± 4.4km 18.922 E ± 4.9km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)
 ML 2.4 (TTG).

NKY 0.22 15 iPg 25 26.72 0.5
 iSg 25 30.83
 TTG 0.30 124 iPg 25 27.95 0.2
 iSg 25 32.80
 BDV 0.33 192 iPg 25 28.55 0.4
 iSg 25 33.65
 HCY 0.35 244 iPg 25 28.75 0.1
 iSg 25 34.73
 BRY 0.41 317 iPg 25 29.55 -0.3
 iSg 25 36.40
 ULC 0.68 159 iPg 25 34.55 -0.4
 iSg 25 44.95
 IVA 0.77 69 iPg 25 36.17 -0.3
 iSg 25 48.03
 PVY 0.78 90 iPg 25 36.25 -0.4
 iSg 25 47.78
 PLE 0.81 25 iPg 25 36.82 -0.3
 iSg 25 49.20
 HVAR 1.91 288 i(Pn) 25 57.40 3.1X
 iSn 26 20.20
 SKO 1.97 108 ePn 25 57.00 1.8
 OHR 2.05 136 ePn 25 55.00 -1.3
 S.D. = 0.9 on 11 of 12 obs.

APR 29, 1991 07h 53m 07.35±1.21s
 40.750 N ± 9.6km 29.986 E ± 9.6km
 DEPTH = 22.2 ± 8.0 km
 TURKEY (366)

MD 3.3 (ISK).

EYL 0.23 145 iPg 53 12.40 -0.8
 HRT 0.25 287 iPg 53 12.50 -1.0
 GBZT 0.41 276 ePg 53 10.30 -5.7X
 iSg 53 21.00
 YLV 0.50 249 iPg 53 16.30 -1.2
 GPA 0.52 152 iPg 53 17.00 -0.8
 iSg 53 23.30
 IZI 0.57 224 iPg 53 17.90 -0.7
 ISK 0.77 294 iPg 53 21.60 -0.4
 iSg 53 31.60
 CTT 1.24 289 iPn 53 29.70 0.3
 KCT 1.34 249 ePn 53 30.50 -0.3
 DST 1.55 223 ePn 53 34.00 0.2
 BNT 1.62 257 ePn 53 37.30 2.4X
 EDC 1.67 257 ePn 53 37.00 1.5
 ALT 1.70 177 ePn 53 38.00 2.0
 DMK 1.99 303 iPn 53 41.10 0.9
 KHL 2.45 189 ePn 53 47.20 0.3

S.D. = 1.1 on 13 of 15 obs.

APR 29, 1991 09h 12m 48.10±0.12s
 42.453 N ± 2.3km 43.673 E ± 1.6km
 DEPTH = 17.2km (geophysicist)
 6.2mb (86 obs.) 7.0Msz (22 obs.)
 WESTERN CAUCASUS (362)

Ms 7.3 (8RK), 6.9 (PAS).
 Mo=8.0*10**19 Nm (PPT). At least
 114 people killed, about 1,000
 injured, 70 missing, 67,000
 homeless and severe damage
 (VIII) and landslides in the
 Dzhava-Chiatura-Ambrolouri area.
 USSR with 95 percent of
 buildings destroyed in the area.
 Felt (VI) in the Kutaisi area;
 (V) at Leninokan and Tbilisi;
 (IV) at Kirovokan and Spitok.
 Felt throughout the western
 Caucasus and Trans-Caucasus from
 Sukhumi to Graznyy and Yerevan.
 USSR. Landslides created a
 natural dam on the Potas River.
 This was breached several days
 later, causing additional damage
 in the Dzhava-Tskhinvali area.
 Also felt in Ardahan, Artvin,
 Kars and Rize Provinces, Turkey.
 Two events about three seconds
 apart. Depth from broadband
 displacement seismograms, based
 on second event.

FAULT PLANE SOLUTION: P-Waves
 NP1: Strike= 80 Dip=46 Slip= 90
 NP2: 260 44 90
 Principal Axes:
 T P1g=89 Azm=350
 P 1 170

Comment: The focal mechanism is
 poorly controlled and
 corresponds to reverse
 faulting. The preferred fault
 plane is NP2.

RADIATED ENERGY
 No. of sta: 9 Focal mech. C
 Energy 1.4±0.3*10**14 Nm
 CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
 L.P.B.: 23S, 68C M.W.: 14S, 41C
 Centroid Location:
 Origin Time 09:12:59.9 0.1
 Lat 42.60N 0.01 Lon 43.61E 0.01
 Dep 22.3 BDY Half-duration 11.4

Moment Tensor: Scale 10**19 Nm
 Mrr= 3.49 0.02 Mtt=-2.80 0.03
 Mff=-0.69 0.03 Mrt= 0.89 0.06
 Mrf= 0.70 0.06 Mtf= 0.33 0.02

Principal Axes:
 T Vol= 3.74 P1g=77 Azm=311
 N -0.79 10 95
 P -2.95 7 186
 Best Double Couple: Mo=3.3*10**19
 NP1: Strike=288 Dip=39 Slip= 106
 NP2: 87 53 77

BKR 0.73 189 iP 13 01.00 -1.1

PYA 1.64 344 P 13 18.00
 TAB 4.83 154 iPd 13 18.00 1.7
 i 14 12.60
 KVT 5.87 259 iPn 14 14.20 -2.2
 GAZ 7.25 225 iP 14 37.10 1.3
 SIM 7.36 293 eP 14 34.00 -3.4X
 eS 16 00.00
 KER 8.52 160 iPc 14 56.50 2.7X
 BBTk 8.64 256 iP 14 56.00 0.7
 TEH 8.99 136 ePd 15 05.00 4.8X
 GPA 10.28 262 iP 15 27.40 9.6X
 EYL 10.31 264 iP 15 19.10 0.7
 FAM 10.60 229 eP 15 24.50 2.3
 BHL 10.61 219 P 15 20.00 -2.4X
 S 17 32.00
 HRT 10.61 266 iP 15 21.30 -1.1
 GBZT 10.78 266 eP 15 23.00 -1.7
 ALT 10.83 256 iP 15 26.40 0.9
 IZI 10.88 264 eP 15 08.00 -18.1X
 YLV 10.89 265 iP 15 24.10 -2.1
 CSS 11.00 231 eP 15 29.00 1.3
 ISK 11.01 268 eP 15 25.00 -2.7X
 ITU 11.03 268 iPc 15 24.00 -4.1X
 BCK 11.21 248 iP 15 30.80 0.2
 SHBJ 11.23 208 Pd 15 31.14 0.3
 PSN 11.40 281 iPd 15 29.00 -4.1X
 CTT 11.46 269 eP 15 29.00 -4.0X
 CFR 11.54 289 iPd 15 35.00 0.0
 KHL 11.55 254 iP 15 35.70 0.5
 SHMJ 11.55 215 Pd 15 36.45 1.3
 TLB 11.56 286 iPd 15 33.00 -2.2
 PPCY 11.63 233 eP 15 38.30 2.1
 DST 11.72 261 eP 15 37.50 0.1
 KCT 11.72 264 eP 15 36.00 -1.5
 DMK 11.84 272 iP 15 33.60 -5.4X
 JARJ 11.90 214 Pd 15 39.41 -0.6
 BURJ 11.95 214 Pc 15 41.24 0.5
 BNT 12.02 265 Pc 15 39.04 -2.4
 ELL 12.04 246 eP 15 43.60 1.7
 EDC 12.06 265 eP 15 40.00 -2.0
 SALJ 12.21 214 Pd 15 43.34 -0.7
 MDSJ 12.31 211 Pc 15 47.06 1.5
 KFNJ 12.34 214 Pd 15 47.37 1.6
 MASJ 12.44 213 P 15 46.97 -0.2
 KGT 12.45 266 eP 15 45.00 -2.2
 CSTJ 12.62 209 Pd 15 47.26 -2.4
 MKRJ 12.62 213 Pd 15 48.32 -1.4
 JMB 12.63 276 iP 15 49.00 -0.6
 VRI 12.64 291 iPd 15 49.00 -0.8
 BAC 12.66 295 eP 15 50.00 0.0
 ISR 12.66 288 iPd 15 49.00 -1.2
 QTRJ 12.70 211 Pd 15 50.61 -0.1
 BUC 12.93 285 iPc 15 44.00 -9.6X
 LISJ 12.96 213 Pd 15 54.36 0.3
 YER 12.97 251 iP 15 56.50 2.3
 BUC1 12.97 284 eP 15 55.00 0.8
 PTT 13.09 296 eP 15 47.00 -8.7X
 MLR 13.13 289 iPc 15 57.50 1.1
 IZM 13.14 258 iP 15 55.70 -0.8
 GHZJ 13.23 209 Pd 15 56.36 -1.4
 ALN 13.27 269 ePc 15 59.74 1.6
 EZN 13.34 264 eP 15 58.90 -1.1
 DIM 13.45 274 iPc 15 59.00 -1.5
 OBN 13.48 342 iP 15 57.80 -3.0X
 Z 24s 1240.00um
 ePP 16 07.00
 eS 18 27.00
 PVL 13.49 279 iPd 15 56.00 -5.0X
 PRK 13.56 262 eP 16 02.80 0.9
 KDZ 13.59 273 eP 16 01.00 -1.5
 RDO 13.60 271 eP 16 03.50 1.1
 MAIO 13.69 111 iPc 16 00.40 -3.4X
 0.8s 109.81nm 5.8mb
 eS 18 59.00
 CMP 13.74 288 iPc 15 58.00 -6.3X
 PLD 14.05 275 iP 16 07.00 -1.4
 RZN 14.11 273 iP 16 10.00 0.7
 MDB 14.30 292 iPd 16 11.00 -0.6
 PGB 14.39 277 eP 16 09.00 -4.0X
 SHI 14.64 148 eP 16 16.00 -0.3
 MMB 14.85 273 iPd 16 20.00 1.0
 HOL 14.88 211 ePd 16 19.33 0.0
 OUR 14.93 268 ePd 16 21.50 1.6
 SRS 15.04 272 ePc 16 22.30 0.9
 VTS 15.09 277 iP 16 19.00 -3.2X
 PAIG 15.26 267 ePc 16 25.14 0.9

29d 09h

SOH	15.28	271	ePc	16	25.70	1.1
KKB	15.28	275	iP	16	24.00	-0.6
DEV	15.29	290	iPd	16	26.00	1.4
THE	15.61	270	ePd	16	30.42	1.6
MNK	15.66	323	iP	16	29.00	-0.2
			eS	20	24.00	
VAY	15.76	273	iPd	16	31.70	1.0
	1.4 s	88.00nm				4.8mb X
			i	16	41.30	
NPS	15.78	249	eP	16	30.00	-1.0
CEI	15.86	297	eP	16	40.00	8.1X
ATH	15.88	260	eP	16	34.00	1.7
GRG	15.96	272	ePd	16	34.18	0.9
HLW	16.01	222	eP+	16	31.50	-2.5X
LIT	16.10	269	ePd	16	35.22	0.2
BZS	16.17	289	eP	16	34.50	-1.4
UZH	16.17	300	iPc	16	33.50	-2.5
			iS	19	55.00	
TIM	16.45	289	iPc	16	38.00	-1.5
SKO	16.48	276	iP	16	39.00	-0.9
	2.0 s	1844.00nm				5.9mb
			i	16	41.90	
			iPP	16	51.40	
			iPPP	16	59.20	
			iS	19	42.50	
			iSS	20	05.00	
AGG	16.53	265	ePc	16	41.30	0.7
KZN	16.57	270	eP	16	42.00	0.8
FNA	16.75	272	ePd	16	44.82	1.4
DHR	16.96	160	ePd	16	45.50	-0.5
			iS	19	59.50	
BEO	16.96	286	eP	16	46.00	0.0
			eS	20	11.00	
VLI	16.96	257	eP	16	46.00	0.0
OHR	17.11	273	iPc	16	48.80	0.9
			i	16	55.20	
			i	17	04.80	
BBU	17.13	159	iP	16	52.70	4.6X
	0.8 s	1961.00nm				6.3mb
PHP	17.26	275	iPc	16	50.00	0.3
BEE	17.33	159	iP	16	53.50	2.8X
PVY	17.46	278	eP	16	54.00	1.6
LSK	17.48	270	eP	16	54.60	2.0
IVA	17.48	279	eP	16	54.00	1.4
PSZ	17.60	296	iP	16	52.40	-1.6
SPC	17.62	301	eP	16	50.10	-4.3X
			i	16	52.20	
			i	22	16.50	
			i	22	37.00	
PLE	17.80	281	eP	16	58.00	1.4
LACI	17.81	275	eP	16	57.50	1.0
IGT	17.85	268	iPc	16	58.30	1.2
RYD	17.85	171	ePd	16	56.00	-1.3
TTG	18.01	278	eP	17	01.40	2.4X
			eS	20	28.00	
SVE	18.01	31	ePd	16	55.00	-3.9X
			iS	20	18.00	
ULC	18.09	277	eP	17	00.50	0.4
VLS	18.10	264	eP	17	00.00	-0.2
BUD	18.12	295	eP	16	59.30	-1.1
NKY	18.15	280	eP	17	04.40	3.5X
BDV	18.35	278	eP	17	03.50	0.3
BRY	18.47	280	eP	17	05.00	0.1
HCY	18.56	279	eP	17	06.20	0.3
SRO	18.64	295	eP	17	08.00	1.3
RAC	19.13	302	eP	17	11.00	-1.7
			ePP	17	25.00	
			iS	20	56.00	
PUL	19.19	339	iPc	17	10.00	-3.3X
			eS	20	36.00	
LCI	19.39	272	P	17	13.30	-2.6X
DSH	19.46	93	iPc	17	16.00	-0.8
			eS	21	06.00	
ZST	19.49	296	iPc	17	16.60	-0.5
	9.5 s	130.00nm				
		</				

	Z	16s	171.00um			6.5MsZ
			i	17	22.90	
			iS	21	11.00	
			LR	28	30.00	
ZAG		20.12	289 iPc	17	22.80	-0.9
			iS	21	19.00	
PTJ		20.13	289 iPc	17	22.50	-1.5
GAR		20.45	91 eP	17	26.00	-1.5
			iS	21	23.00	
			iSSS	22	15.00	
KSP		20.49	304 eP	17	25.00	-2.6X
		1.2s	1455.00nm			6.2mb
			ic	17	27.00	
ORI		20.57	273 P	17	22.40	-6.1X
VBY		20.63	288 iPc	17	28.50	-0.5
			i	17	32.50	
			i	17	37.90	
TDS		20.77	271 P	17	29.30	-1.2
LJU		21.13	290 ePc	17	33.60	-0.5
			e	17	39.00	
			e	17	55.00	
			eS	21	32.00	
			e	22	17.00	
			e	22	49.00	
			e	24	30.00	
CEY		21.21	289 ePc	17	34.50	-0.5
RIY		21.25	288 iPd	17	36.00	0.6
PRU		21.42	301 Pc	17	36.20	-0.9
			e	17	38.40	
			i	18	43.20	
			S	21	30.00	
			i	21	39.00	
KMR		21.46	295 iP+	17	37.20	-0.3
			iS	21	41.00	
NUR		21.47	334 iP	17	37.10	-0.3
		1.3s	288.80nm			5.5mb
			i	17	43.20	
			i	18	06.60	
			e	19	10.00	
VOY		21.57	290 iPc	17	37.90	-0.8
DUI		21.66	278 P	17	39.90	0.2
TRI		21.67	289 iPc	17	38.90	-0.7
			iS	21	52.50	
ATN		21.89	268 P	17	41.50	-0.4
KHC		21.92	298 iPc	17	41.60	-0.6
		1.5s	1302.00nm			6.1mb
	Z	14s	112.00um			6.4MsZ
	N	13s	110.00um			
	E	13s	121.00um			
			i	17	48.50	
			eS	21	46.00	
KBA		21.95	293 eP	17	42.00	-0.6
		1.9s	2208.00nm			6.3mb
			i	17	44.90	
			i	17	50.50	
			i	17	55.50	
BRG		21.95	303 iPc	17	42.00	-0.4
		2.0s	3000.00nm			6.4mb
			iS	21	55.00	
SDI		22.13	278 P	17	45.30	1.0
KAF		22.23	338 iP	17	45.10	0.0
		0.8s	279.60nm			5.8mb
BHG		22.28	294 eP	17	47.20	1.5
AQU		22.30	280 P	17	46.20	0.2
QUE		22.32	116 eP	17	47.00	0.6
			e(S)	22	08.20	
FVI		22.33	291 P	17	46.00	-0.2
AZI		22.35	279 P	17	47.10	0.7
WET		22.38	298 iPc	17	46.50	-0.2
			iS	21	51.30	
ARV		22.45	283 P	17	47.30	-0.2
MNO		22.54	268 P	17	49.10	0.5
VVI		22.60	290 P	17	50.00	1.1
CLL		22.62	304 iPc	17	49.00	0.0
		2.3s	6000.00nm			6.7mb
	Z	15s	230.00um			6.7MsZ
			iS	22	02.00	
FRU		22.71	78 iPc	17	50.00	0.0
			iS	22	03.00	
BRN		22.74	307 iPc	17	51.00	0.9
RSM		22.75	284 P			

				i	17 57.30	
				P	18 07.60	
CTI	23.13	290	P	17 54.00	-0.2	
CRE	23.15	284	P	17 55.70	1.3	
WATA	23.16	293	eP	17 54.00	-0.5	
	0.9s	1944.00nm				6.6mb
				i	17 57.40	
				i	18 07.90	
HOF	23.16	301	eP	17 55.10	0.7	
SFI	23.18	285	P	17 55.80	1.3	
PGD	23.28	284	P	17 57.30	1.6	
MOX	23.37	302	iPc+	17 56.60	0.2	
	2.8s	5088.00nm				6.6mb
Z	13s	230.60um				6.8MsZ
				iS	22 08.00	
FUR	23.38	295	iPc	17 56.50	0.0	
USI	23.40	271	P	17 56.90	0.2	
SQTA	23.41	293	eP	17 56.00	-0.9	
	2.5s	1508.00nm				6.1mb
				i	17 59.70	
				i	18 10.10	
				i	22 56.90	
MOTA	23.48	293	eP	17 57.00	-0.6	
	1.0s	2732.00nm				6.7mb
				i	18 00.10	
				i	18 10.90	
GRF	23.51	299	ePc	17 58.40	0.6	
	2.0s	1988.00nm				6.5mb
Z	19s	328.00um				6.8MsZ
				e	18 13.50	
				e	18 22.20	
				e	18 27.70	
				eS	22 23.30	
FAI	23.53	267	P	17 59.20	1.2	
OGA	23.54	292	iPc	17 58.20	-0.1	
FIR	23.62	284	iPc	18 02.00	3.2X	
				iS	22 24.00	
UPP	23.63	326	iPd	18 00.00	1.3	
				i	19 07.70	
				iS	22 20.00	
MAO	23.93	281	P	18 02.60	0.8	
SAL	23.94	289	P	18 03.10	1.2	
MME	23.97	285	P	18 04.20	1.7	
CVT	24.04	269	P	18 03.10	0.2	
ERC	24.06	270	P	18 04.60	1.4	
ABHA	24.14	182	ePd	18 13.30	9.0X	
OSS	24.15	292	iPc	18 04.40	0.3	
LVI	24.26	270	P	18 03.30	-1.8	
KSH	24.50	86	P	18 09.00	1.4	
VDL	24.62	291	iPc	18 08.90	0.1	
TLG	24.63	77	iP	18 10.00	1.3	
				eS	22 46.00	
DHJN	24.71	180	ePd	18 13.70	3.8X	
STU	24.78	297	iPc+	18 09.20	-0.8	
	1.5s	4166.67nm				6.9mb
BOB	24.78	287	P	18 11.00	0.8	
LLS	24.93	292	iPc	18 10.80	-0.9	
SLE	25.24	294	ePc	18 13.40	-1.1	
ZLA	25.32	294	eP+	18 14.40	-0.8	
TNS	25.34	300	ePc	18 15.70	0.3	
PCP	25.45	287	P	18 17.32	0.8	
PGF	25.46	282	P	18 16.18	-0.5	
FEL	25.56	295	eP	18 16.46	-1.2	
CKI	25.66	287	P	18 18.00	-0.4	
MMK	25.69	290	ePc	18 17.70	-1.3	
FIN	25.74	286	P	18 19.24	0.1	
GWF	25.82	297	P	18 19.16	-0.8	
ABH	25.90	299	eP	18 20.63	0.0	
BBS	25.92	294	P	18 19.41	-1.4	
ROB	25.97	286	P	18 21.51	0.2	
M8Z	25.98	268	iP+	18 23.00	1.5	
WLS	26.00	296	P	18 19.84	-1.7	
CDF	26.05	296	P	18 20.34	-1.8	
DIX	26.07	290	ePc	18 21.70	-0.9	
ECH	26.13	295	P	18 21.03	-1.7	
MOF	26.16</					

DOI	26.38	287	P	18	24.20	-0.9	HLD	30.76	182	eP+	19	04.70	0.1	GUN	37.03	99	P	19	58.66	-0.5
LOMF	26.38	293	P	18	23.42	-1.8	ARO	30.82	182	eP+	19	05.17	-0.1	ERUA	37.05	288	eP	19	59.10	0.4
BSF	26.39	295	eP	18	23.70	-1.5	LFF	30.88	289	eP	19	04.50	-1.0	EPLA	37.05	284	iPd	19	58.90	0.1
STB	26.39	301	ePc	18	25.10	0.0	SGH	30.91	182	eP+	19	06.20	0.1	EHOR	37.27	280	eP	20	00.20	-0.4
	2.7s	274.00nm			5.4mb		LDF	30.95	297	eP	19	04.80	-1.3	MVO	37.36	286	eP	20	02.20	0.8
EMS	26.41	291	ePc	18	24.40	-1.1	MLS	31.06	286	P	19	06.64	-0.5				i	20	12.00	
REVF	26.41	285	P	18	24.99	-0.4	FLN	31.18	297	eP	19	06.80	-1.3	EPRU	37.60	278	eP	20	03.00	-0.4
AURF	26.42	286	P	18	25.34	-0.2		1.1s	248.00nm			6.0mb		LIJA	37.76	278	eP	20	03.00	-1.8
PLH	26.44	302	ePd	18	27.50	2.1	Z	18s	357.14um			7.1MsZ		STS	37.89	289	eP	20	06.40	0.7
TOUF	26.45	286	P	18	25.97	0.0	GBR	31.20	182	eP+	19	08.86	0.2	MTE	37.98	285	eP	20	07.00	0.4
PZZ	26.48	287	P	18	25.08	-1.1	MFF	31.21	293	eP	19	06.70	-1.7				i	20	15.50	
ZGN	26.51	268	iP+	18	26.80	0.4	GRR	31.46	296	eP	19	09.00	-1.6	EJIF	37.98	278	eP	20	06.00	-0.6
WTS	26.53	304	iPd	18	28.90	2.5X	EPF	31.57	286	eP	19	08.90	-2.8X	ALJ	37.99	278	eP	20	06.50	-0.3
	1.0s	597.00nm			6.2mb			0.9s	76.80nm			5.6mb		GIBL	38.18	279	eP	20	03.00	-5.3X
MVIF	26.54	286	P	18	26.08	-0.6	LPF	31.62	296	eP	19	10.50	-1.5	EZAM	38.22	288	eP	20	09.30	0.8
LPG	26.59	289	eP	18	26.40	-1.0	WMQ	31.87	72	ePc	19	14.60	0.2	PLAT	38.33	277	eP	20	08.50	-1.1
	1.1s	1259.15nm			6.5mb			6.0s	7100.00nm			6.8mb X		CNIL	38.45	278	eP	20	10.00	-0.5
LPL	26.61	289	eP	18	26.20	-1.2	N	15s	699.00um					EVAL	38.46	280	iPd	20	10.40	-0.2
SOD	26.63	345	iP	18	27.40	0.3			ec	19	17.58			KBS	38.60	351	iP	20	13.20	2.0
			i	18	37.80				ed	19	23.12			COI	38.68	285	eP	20	13.00	0.6
RRL	26.64	288	P	18	28.96	1.2			ed	19	29.99					i	21	47.00		
HAU	26.68	295	eP	18	26.20	-1.6			eS	24	34.54		HYB	38.77	119	iPc	20	13.00	-0.4	
	1.0s	609.40nm			6.2mb		BTH	31.94	286	ePd	19	13.50	-1.3		1.0s	365.00nm			6.1mb	
BNI	26.70	288	P	18	28.20	0.0			i	19	15.00					iS	26	08.00		
WIT	26.72	306	ePd	18	30.00	1.9			iP	19	19.00	19kmX	IFR	39.03	273	iPd	20	14.50	-1.1	
KLL	26.73	301	ePc	18	28.10	-0.2			iP	19	19.00					i	20	16.00		
WLF	26.80	299	iPd	18	30.73	1.9			iS	19	21.10					i	20	20.00		
VITF	26.92	295	P	18	28.27	-1.6			iPPP	20	36.50		MOE	39.25	282	iPd	20	18.00	0.8	
MEM	26.93	301	iPd	18	32.43	2.5X			iPcP	22	04.50		FIG	39.44	280	eP	20	19.00	0.2	
NB2	26.95	325	P	18	28.40	-1.8			iPcP	22	19.00					e	20	26.50		
FRF	26.96	285	eP	18	29.70	-0.7			iS	23	58.00		LIS	39.76	283	iPc	20	21.00	-0.4	
ENN	26.99	301	iPd	18	33.10	2.6X			ScP	25	41.00		LSA	39.94	93	P	20	24.00	0.4	
	1.5s	1001.00nm			6.3mb		EBR	32.06	282	iP	19	15.00	-0.9	E	16s	156.00um				
KONO	27.05	321	ePc	18	32.34	1.4	JAU	32.07	286	P	19	15.40	-0.8			PP	20	28.50		
			ec	18	34.74		EROQ	32.12	282	eP	19	16.40	-0.1			eS	26	27.00		
LMR	27.10	285	eP	18	31.00	-0.6	ESCF	32.21	286	P	19	17.48	0.2	AKU	40.79	326	ePd	20	33.10	3.6X
LRG	27.18	285	eP	18	31.90	-0.5	EGRA	32.25	285	eP	19	13.40	-4.2X		1.0s	348.00nm			6.0mb	
	0.9s	511.85nm			6.2mb		LHE	32.28	286	P	19	17.72	-0.3	AVE	40.82	274	iP	20	31.00	0.9
Z	19s	385.71um			7.0MsZ		ATE	32.30	286	P	19	16.91	-1.1			i	20	51.00		
DBN	27.55	304	iP+	18	41.00	5.4X	MADF	32.37	287	P	19	15.42	-3.2X	GBA	40.94	124	Pc	20	33.80	2.5X
	Z	20s	215.00um		6.7MsZ		ISSF	32.38	286	P	19	17.46	-1.4		0.8s	88.30nm			5.5mb	
			eS	23	32.00		ESY	32.46	311	eP	19	19.80	0.5	IRK	41.10	55	eP	20	31.00	-1.3
DOU	27.81	300	Pd+	18	39.00	0.9	BOH	32.51	287	P	19	19.15	-0.8			e	20	48.30		
			S	23	25.00		EDR	32.52	313	iPc	19	20.00	0.2			ePP	22	14.00		
UCC	27.98	301	P+	18	39.00	-0.5	EBL	32.69	310	eP	19	21.90	0.6			ePPP	23	21.00		
			S	23	33.00		EKA	32.73	310	P	19	21.00	-0.6			eScP	26	27.00		
SNF	28.02	300	iPd	18	42.23	2.3			0.9s	118.50nm		5.8mb				ePcP	26	35.00		
RGS	28.26	328	eP	18	43.00	1.1	EDU	32.74	312	eP	19	21.80	0.1			eS	26	47.00		
KIR	28.33	342	eP+	19	01.62	19.0X		1.3s	431.00nm			6.2mb				e	27	38.00		
LBF	28.35	293	eP	18	41.10	-1.9	ESK	32.76	310	eP	19	22.20	0.4			e	27	52.00		
LOR	28.41	294	eP	18	41.40	-2.1		0.7s	114.00nm			5.9mb				eSS	29	37.00		
	1.1s	267.10nm			5.9mb		EDI	32.78	311	ePc	19	22.40	0.3			eSSS	30	43.00		
Z	20s	500.00um			7.1MsZ		EAU	32.93	311	ePc	19	23.50	0.1	TIO	41.86	271	iP	20	37.50	-1.5
SMF	28.48	292	eP	18	42.60	-1.5		1.3s	264.00nm			6.0mb				i	20	53.40		
NSS	28.52	332	eP	18	47.65	3.4X	EBH	32.99	311	eP	19	24.30	0.4	GTA	41.87	75	Pc	20	39.00	0.1
ODD1	28.53	321	eP	18	46.50	2.0	ELO	33.12	312	ePc	19	23.60	-1.4		1.6s	700.00nm			6.1mb	
SSF	28.66	293	eP	18	43.90	-1.9	EAB	33.45	311	ePc	19	28.20	0.4	E	13s	68.60um				
KEV	28.69	348	ePc	18	45.34	-0.4	ACU	33.48	278	eP	19	30.70	2.3			S	27	00.00		
			ec	18	47.41		ECHE	33.51	280	eP	19	29.80	1.2	REY	42.39	324	iP	20	48.60	6.0X
			ed	18	53.29		AAE	33.57	189	eP	19	30.20	0.6	DAG	42.84	343	iPd	20	46.00	-0.2
			eS	23	50.41		BST	33.59	297	P	19	29.60	0.4		0.5s	204.23nm			6.1mb	
GTK1	28.69	345	eP	18	46.17	0.3	ECRI	33.70	286	eP	19	30.60	0.3	KOD	43.61	127	eP	20	53.00	-0.5
PLDF	28.71	291	P	18	45.95	-0.4	ETOR	33.90	283	eP	19	31.80	-0.3			ePP	22	36.40		
AVF	28.80	293	eP	18	45.40	-1.6	EALH	34.46	278	eP	19	37.60	0.8	LZH	46.17	77	ePc	21	14.17	0.5
GRC	28.94	294	P	18	48.28	0.1	DMS	34.52	306	eP	19	39.00	1.9		1.5s	1540.00nm			6.8mb	
KMY	28.96	319	eP	18	52.06	3.8X	EVIA	34.96	280	iPd	19	41.80	0.6	E	15s	113.00um				
AGO	29.04	291	P	18	48.73	-0.4	POO	34.97	124	iPc	19	43.70	2.3			ec	21	17.39		
PYM	29.17	291	P	18	49.78	-0.6		1.2s	275.00nm			6.0mb				ed	21	22.77		
BGF	29.17	292	eP	18	49.00	-1.3			iS	25	13.50				PP	23	05.00			
HYA	29.20	323	eP	18	52.67	2.2	EHUE	35.33	278	eP	19	43.70	-0.7			iS	28	10.69		
BER	29.31	321	iPd	18	52.62	1.3	ENIJ	35.38	277	iPd	19	44.00	-0.7			SS	28	13.00		
EGD	29.32	321	eP	18	55.26	3.8X	GUD	35.47	284	eP	19	44.60	-1.0			eSS	31	10.79		
ASK	29.41	321	eP	18	54.03	1.8	TOL	35.65	282	ePc	19	44.75	-2.2	CFTV	48.23	273	iP	21	30.50	0.7
MAF	29.41	292	eP	18	51.40	-1.1			ec	19	48.06		BTO	48.54	69	iPc	21	32.00	-0.2	
TCF	29.64	292	eP	18	53.40	-1.2			ed	19	53.36			8.0s	6000.00nm			6.7mb X		
SUE	29.81	322	eP	18	57.51	1.7			ePP	21	08.76			N	13s	80.10um				
ETER	29.95	284	eP	18	59.40	2.0			iS	25	24.40		E	13s	72.80um					
CAF	29.95	289	eP	18	56.50	-0.9			esS	25	38.96				PP	23	21.00			
TRO	30.09	343	eP	19	00.19	1.9	EBAN	36.07	279	iPd	19	50.70	0.1			ScS				

		1.6s	1300.00nm			6.7mb
Z	18s		72.80um			6.8MsZ
N	14s		46.70um			
E	14s		70.80um			
			SP	22	44.50	
			iS	30	20.00	
SNY	57.06	61	Pc	22	33.20	-2.2
	0.8s		60.00nm			5.7mb
E	16s		113.00um			
			PP	24	45.00	
			iS	30	34.00	
DL2	57.24	65	iPc	22	35.50	-1.2
	6.0s		5500.00nm			6.8mb X
Z	16s		60.40um			6.8MsZ
N	23s		302.00um			
E	23s		185.00um			
			eS	30	30.00	
CN2	57.28	58	Pc	22	35.00	-1.9
	1.0s		100.00nm			5.8mb
N	15s		82.00um			
E	15s		176.00um			
			PP	22	39.00	
			PP	24	44.00	
			eS	30	30.00	
NPA	57.40	185	eP	22	35.50	-2.4X
PTZ	57.55	194	eP	22	36.00	-3.1X
BS1	58.57	114	eP	22	45.00	-1.3
NJ2	58.94	73	Pc	22	47.00	-1.7
	1.4s		300.00nm			6.2mb
Z	26s		53.60um			6.6MsZ
N	13s		24.30um			
E	15s		70.80um			
			PP	22	52.00	
			S	30	58.00	
			ScS	32	39.00	
MDJ	59.45	56	eP	22	50.50	-1.5
	1.5s		200.00nm			6.0mb
Z	56s		126.00um			6.6MsZ
N	14s		112.00um			
E	14s		105.00um			
			PP	25	09.00	
			iS	31	00.00	
OIZ	59.95	91	P	22	54.50	-1.3
	1.2s		200.00nm			6.1mb
N	17s		84.70um			
GZH	60.07	85	P	22	54.00	-2.5X
	1.0s		60.00nm			5.7mb
Z	29s		44.40um			6.4MsZ
N	16s		27.50um			
E	19s		86.20um			
MCO	60.80	86	eP	23	03.50	1.9
SNG	61.05	108	eP	22	58.20	-5.1X
			e	31	20.50	
SSE	61.13	73	Pc	23	02.00	-1.6
	1.4s		62.00nm			5.6mb
Z	18s		73.40um			6.9MsZ
N	14s		48.40um			
E	15s		30.70um			
			PP	23	10.00	
			PcP	23	44.00	
			PP	25	22.00	
			S	31	23.00	
			ScS	32	50.00	
HKC	61.15	85	iP	23	07.50	3.6X
			iS	31	32.00	
FRB	61.45	332	ePc	23	03.50	-1.9
	0.9s		213.00nm			6.3mb
QZH	62.82	80	Pc	23	13.50	-1.5
	5.0s		2740.00nm			6.7mb X
Z	16s		67.70um			6.9MsZ
N	17s		47.00um			
E	18s		60.60um			
			SP	23	28.00	
			PP	25	37.50	
IPM	63.17	110	ePd	23	16.90	-0.6
	1.3s		126.90nm			5.9mb
BUL	63.81	196	iPc+	23	20.80	-0.9
	0.9s		12.60nm			5.1mb X
KLM	64.65	110	eP	23	31.00	3.8X
ILT	65.44	16	iPc	23	30.60	-1.0
			iS	32	18.00	
BRW	65.61	7	eP	23	32.90	0.3
YSS	65.74	48	ePc	23	34.00	0.2

KGM	66.59	110	ePd	23	38.60	-1.0
SHK	67.04	64	ePc	23	42.20	-0.1
SAP	67.34	52	eP	23	46.00	1.9
			eS	32	48.00	
WIN	69.19	206	iPc	23	53.50	-2.4X
	1.0s	290.00nm				6.4mb
Z	17s	64.63um				6.9MsZ
SLR	69.32	195	ePc	23	55.33	-1.2
			ed	23	59.38	
			ed	24	04.85	
MAJO	69.42	59	ePc	23	55.18	-1.9
			ec	23	58.58	
			ed	24	03.87	
			ed	24	10.16	
			eS	33	10.22	
MAT	69.42	59	iPc+	23	54.80	-2.3X
	1.0s	63.00nm				5.7mb
			eS	33	10.00	
BAG	69.53	86	ePc+	23	57.00	-1.2
			eS	33	12.00	
INK	69.55	359	eP	23	55.00	-2.3
	1.2s	246.00nm				6.2mb
PET	69.69	36	eP	23	57.00	-1.4
			eS	33	12.00	
JOZ	70.37	191	iPc	24	04.50	1.8
	1.3s	115.38nm				5.8mb
ANM	70.90	13	eP	24	05.70	0.0
			i	24	08.80	
IMA	70.98	7	eP	24	06.00	-0.3
	1.5s	561.00nm				6.5mb
			i	24	08.80	
OCP	71.03	87	eP	24	07.00	-0.1
CBM	72.46	318	iPd	24	15.90	0.7
COL	72.61	5	ePc	24	15.68	-0.1
			ec	24	18.91	
			ed	24	25.12	
			ed	24	30.66	
			eS	33	47.89	
			ePS	34	12.39	
FBA	72.61	5	ePc	24	16.00	0.2
TTA	73.79	9	eP	24	24.30	1.5
YKA	73.96	350	eP	24	22.00	-1.7
	1.2s	107.40nm				5.8mb
MIM	74.09	317	P	24	25.20	0.4
POF	74.75	201	iPc	24	28.00	-0.6
	1.5s	638.89nm				6.4mb
TOA	75.49	5	eP	24	33.30	0.7
SVW	75.60	10	eP	24	35.00	1.7
TSM	75.66	97	eP	24	36.00	1.8
PMR	75.79	6	ePc	24	35.10	0.9
Z	20s	95.00um				7.1MsZ
SMY	76.00	28	eP	24	36.80	1.3
	1.6s	1170.30nm				6.7mb
Z	20s	160.00um				7.3MsZ
KLU	76.12	5	P	24	36.30	0.1
SLKM	76.77	7	eP	24	39.10	-0.7
PDB	77.06	9	P	24	41.50	0.1
BKB2	78.53	102	ePd	24	56.00	5.9X
TUH	78.67	201	iPc	24	52.00	1.6
	1.7s	1615.39nm				6.8mb
CER	78.69	201	iPd	24	50.00	-0.6
FFC	78.85	341	ePd	24	49.00	-2.3X
	1.2s	348.00nm				6.3mb
DAV	79.29	90	eP	24	54.00	-0.4
TXNY	79.63	317	iP	24	57.70	1.9
TBR	79.67	317	P	24	57.20	1.2
PNJ	79.82	317	iP	24	58.10	1.3
GMTN	79.85	317	iP	24	58.90	1.9
TRT	79.99	110	ePd	24	51.10	-6.9X
	0.6s	90.30nm				5.9mb
SDN	80.43	14	e(P)	25	05.70	5.9X
Z	20s	80.00um				7.1MsZ
SIT	80.86	359	eP	25	04.20	2.3
	1.3s	222.00nm				6.0mb
Z	22s	43.00um				6.8MsZ
ELF						

BLA	85.77	318	ePc	25	29.00	1.4		Z	21s	107.53um	7.3Msz			LR	07	36.00					
	1.5s	192.11nm			6.1mb					e	26	39.70		SNA	117.29	196	iPKPc	31	33.10	0.3	
NAV	85.87	319	P	25	28.00	-0.1	BONR	98.30	346	P	26	28.60	2.3		1.0s	130.00nm					
PNT	87.44	349	eP	25	36.00	0.5	CMB	98.59	347	ePd	26	29.00	1.8	RMO	118.09	101	iPKPc	31	36.70	1.0	
	1.2s	291.00nm			6.4mb					ePP	30	29.40				e	32	55.00			
CAI	87.62	259	iPd	25	38.50	1.7	BRK	99.03	349	ePd	26	30.30	1.2				e	42	05.00		
LHS	88.12	317	P	25	40.00	1.0	FRI	99.49	347	ePd	26	33.00	1.7	CMS	118.86	108	ePKP	31	38.00	1.0	
MCW	88.48	351	P	25	41.40	0.9	LLA	100.06	347	ePdiff	26	36.30	2.6X	ARE	119.43	274	ePKP	31	41.00	2.2	
JSC	88.50	317	P	25	42.00	1.2	CLC	100.25	345	iPdiff	26	37.00	2.4X	BFD	119.72	115	ePKP	31	38.00	-0.4	
PGC	88.57	351	eP	25	43.00	2.1	PRI	100.48	347	ePdiff	26	38.20	2.5X	LPA	120.36	249	ePKP+	31	39.00	-0.7	
	1.0s	159.00nm			6.3mb					ePP	30	46.60		Z	22s	32.59um			6.9Msz		
TKL	88.63	320	P	25	42.50	1.0	ISA	100.56	345	ePdiff	26	37.49	1.5X				ePP	33	05.00		
DPW	88.64	348	P	25	41.50	0.1				ec	26	39.48		NNA	120.43	282	ePKP	31	39.50	-0.9	
CRZF	88.00	174	ePc	25	50.00	8.4X				ed	26	51.39			0.8s	18.66nm					
			ePP	29	14.00					eHPP	30	45.68		BRS	121.54	100	iPKPd	31	43.50	1.3	
			eS	36	39.00					ePPP	30	57.60				e	32	25.00			
			eSS	42	24.00					eSKS	37	18.89		TOO	121.92	114	ePKP	31	43.00	0.4	
SGS	88.98	316	P	25	44.20	1.1	GSC	100.58	344	ePdiff	26	40.32	4.2X	CNB	123.41	109	e(PKP)	31	44.00	-1.6	
SXM	88.99	343	ePc	25	43.50	0.2				ed	26	46.69				e	33	32.00			
SLM	89.07	326	P	25	50.00	6.5X				eHPP	30	43.21		TAU	125.77	118	ePKP	31	51.00	1.1	
Z	20s	65.00um			7.0Msz					ePP	30	45.04				e	33	40.00			
HBF	89.12	316	P	25	46.00	2.2				ePPP	30	56.95		MDZ	127.01	257	i(PKP)	31	53.40	0.7	
PRM	89.21	318	P	25	44.00	-0.2				eSKS	37	22.88		DZM	128.52	86	iPKPc	31	57.90	2.0	
LRM	89.57	344	ePc	25	45.90	-0.2				eSDIF	38	26.88		LVN	129.40	257	ePKP	31	49.00	-8.1X	
GMW	89.59	351	P	25	46.00	0.2				ePS	39	48.96		DRV	130.49	149	Pdiff	29	04.00	15.8X	
DEG	89.60	292	eP	25	45.00	-1.3	SBB	101.38	345	ePdiff	26	43.00	3.3X				PPP	34	13.00		
BPA	89.64	293	eP	25	47.00	0.6	TPC	101.58	343	ePdiff	26	43.00	2.4X				SS	51	58.00		
FVM	89.70	325	eP	25	45.10	-1.4	MWC	101.88	345	ePdiff	26	41.00	-1.1				SSS	56	10.00		
	1.0s	72.00nm			5.9mb		PAS	101.97	345	ePdiff	26	45.47	3.2X	DRV	130.49	149	ePKP	32	00.00	1.9	
ELC	89.78	324	P	25	46.20	-0.6				ed	26	50.77		SPA	132.26	180	iPKPd	32	02.20	0.5	
SEG	89.84	292	eP	25	48.00	0.6				ed	26	57.06			1.0s	100.50nm					
PAG	90.22	292	eP	25	48.00	-1.2				ePP	30	55.00		Z	20s	2.93um			6.0Msz		
LON	90.25	350	P	25	50.00	1.0				ePPP	33	06.00				i	34	28.90			
BBL	90.44	291	eP	25	48.00	-2.2				eSKS	37	29.36		KHZ	143.44	107	PKP	32	18.10	-4.7X	
BMW	90.69	351	P	25	52.40	1.4				eS	38	30.00		CNZ	143.82	101	PKP	32	20.30	-3.4X	
FDF	90.76	291	eP	25	54.00	2.3				eSDIF	38	36.87		NGZ	143.85	101	ePKP	32	19.30	-4.5X	
	0.8s	0.90nm			4.1mb X					ePS	40	02.98		WEL	143.97	105	PKP	32	21.00	-2.7X	
SHW	90.85	350	P	25	53.00	2.0				ePKKP	41	06.00				PP	35	40.00			
SOB1	92.16	260	eP	26	01.00	2.9X				ePPS	42	00.00				SS	54	26.00			
GLD	93.45	336	eP	26	04.40	0.4				eSKKP	44	27.00		WDW	144.12	105	PKP	32	22.20	-1.8	
Z	20s	25.00um			6.7Msz					eSS	46	33.00		CAW	144.12	105	PKP	32	21.20	-2.8X	
GOL	93.54	337	P	26	04.20	-0.3				eSSS	50	10.00		MNG	144.26	104	ePKP	32	22.60	-1.7	
	1.4s	137.00nm			6.2mb					eLg	56	37.00		MOW	144.35	105	PKP	32	23.60	-0.8	
TUL	93.67	328	eP	26	03.10	-1.7	GLA	102.31	342	ePdiff	26	46.00	2.2X	MTW	144.45	105	PKP	32	20.90	-3.7X	
	1.4s	473.10nm			6.7mb		PLM	102.48	343	ePdiff	26	46.00	1.3	PGZ	144.83	103	PKP	32	22.30	-2.9X	
Z	21s	150.00um			7.4Msz		BAR	103.09	343	ePdiff	26	44.00	-3.3X		0.8s	311.00nm					
N	22s	127.23um					WRA	103.66	105	Pdiff	26	51.00	0.9	PUZ	145.39	98	PKP	32	24.10	-2.2	
E	21s	106.54um						1.0s	11.60nm		5.6mb		PMO	150.89	23	PKP	32	40.60	5.1X		
			ePP	29	52.00					ePP	30	55.70			1.4s	285.00nm					
			eS	37	03.00		WB2	103.67	105	iPdiff	26	50.20	0.1	TPT	150.95	23	PKP	32	41.00	5.4X	
			ePS	38	43.40			1.1s	13.10nm		5.6mb			1.4s	320.00nm						
			eSS	44	27.60					ePP	30	55.70		RAR	151.10	50	PKP	32	44.00	8.3X	
			ePKKS	47	08.00					e	42	44.10				S	36	00.00			
			LQ	53	04.40		VAO	105.60	253	ePKP	31	16.80	4.7X	VAH	151.19	23	PKP	32	41.30	5.3X	
			LR	57	14.30					e	31	24.00			1.4s	200.00nm					
TRN	93.77	288	eP	26	08.00	2.5				e	31	33.90		RUV	151.21	23	PKP	32	41.20	5.2X	
PAF	94.35	163	eP	26	10.00	2.8X	ASPA	105.73	108	ePdiff	26	56.20	-3.0X		1.4s	200.00nm					
			ePP	29	55.00			1.9s	5.40nm		5.2mb		AFR	152.64	29	PKP	32	43.00	5.0X		
			eS	36	55.00		RAB	106.44	80	e(Pdiff	27	04.00	1.4		1.4s	170.00nm					
MBL	94.36	115	iPd	26	10.50	2.5	RAB	106.44	80	ePKP	31	28.00	14.2X	TBI	158.04	34	PKP	32	47.00	2.0	
DAU	94.45	341	P	26	10.00	1.2	BOG	106.83	293	ePdiff	27	08.00	3.3X		1.2s	55.00nm					
DUG	95.02	342	P	26	13.20	2.0				ePP	31	34.00		RKT	160.69	356	PKP	32	55.00	7.1X	
	1.4s	52.22nm			5.8mb					eS	38	00.00			1.0s	35.00nm					
LBFM	95.57	349	P	26	15.00	1.2	PPD	108.09	257	ePKP	31	36.10	19.4X				S.D. = 1.2 on 500 of 609 obs.				
PV09	95.72	339	eP	26	14.10	-0.5				e	31	51.50									
			i	26	17.50		CTA	112.40	97	Pdiff	27	32.00	3.0X								
			i	27	08.60		CTA	112.40	97	iPKP	31	26.30	1.4								
								1.2s	71.88nm												
MEO	95.73	330	iPd	26	14.50	0.2	NVL	115.22	191	ePKP	31	30.00	1.2								
FHC	96.38	351	ePd	26	15.00	-2.2				ePP	32	32.00									
MSU	96.47	341	P	26	18.50	0.6				ePPP	35	00.00									
MIN	96.51	349	ePd	26	19.00	1.0				eSKS	38	14.00									
KNA	96.92	105	eP	26	19.00	-0.7				eSKKS	39	23.00									
ORV	97.27	348	ePd	26	22.20	1.0				eS	39	58.00									
TNP	97.98	345	ePd	26	24.80	0.1				ePS	41	58.00									
	1.0s	68.50nm			6.2mb		ADE	115.91	115	e(PKP)	31	26.40	-4.9X								
ANMO	98.26	336	ePc	26	27.50	1.5	CCH	116.06	270	PKP	31	43.00	10.6X	LAT	7.09	264	iPd	18	26.04	-0.2	
	1.4s	61.05nm			6.0mb		STK	116.12	110	ePKP	31	32.40	0.7	PMG	7.68	243	eP	18	35.00	0.5	
Z	20s	97.87um			7.3Msz			0.7s	5.90nm					DZM	19.96	144	iPc	21	14.70	0.1	
			ec	26	29.65					ePP	32	52.30		QIS	20.20	223	iPd	21	16.90	-0.1	
			ed	26	34.95					ePP	32	52.30			0.4s	7.00nm			4.4mb		
			ed	26	40.00					eSKKS	40	27.90				e	27	04.00			
			eHPP	30	27.75		ZOBO	116.82	272	PKP	31	33.20	-1.0	WB2	23.69	232	iPd	21	52.10	0.2	
			iPP	30	28.4																

APR 29, 1991 09h 37m 37.26 ± 0.24s
42.568 N ± 5.3km 43.881 E ± 3.2km
DEPTH = 10.0km (geophysicist)
4.9mb (26 obs.)
WESTERN CAUCASUS (362)

TAB 4.87 157 eP 39 04.00 11.6X
KAS 7.63 264 eP 39 28.50 -2.7
GLH 11.79 216 eP 40 29.00 0.5
DST 11.89 261 eP 40 29.00 -0.8
DSI 12.90 214 eP 40 44.00 0.7
MAIO 13.59 112 eP 40 52.00 -0.5
RMN 14.15 215 eP 41 00.00 0.1
VAY 15.91 273 eP 41 27.70 5.0X
SKO 16.62 276 eP 41 32.20 0.4
OHR 17.26 273 iP 41 41.20 1.4
ZST 19.58 296 e(P) 42 08.30 0.1

e 46 23.50
e 48 45.00
e 01 08.20

HVAR 20.09 281 iP 42 12.20 -1.4
ZAG 20.22 289 eP 42 14.50 -0.5
VBY 20.74 288 e(P) 42 19.50 -0.9
LJU 21.23 289 eP 42 28.50 3.1X
NUR 21.43 334 iP 42 28.20 0.9

1.0s 60.00nm 4.9mb
PRU 21.49 300 eP 42 30.00 2.0
DUI 21.80 278 P 42 32.00 0.7

eSn 43 24.00
KHC 22.01 298 P 42 36.80 3.6X
1.5s 35.50nm 4.6mb

BRG 22.02 303 iPd 42 40.80 7.5X
1.5s 60.00nm 4.8mb

i 42 48.60
KAF 22.18 338 eP 42 34.30 -0.5
1.0s 39.30nm 4.8mb

esP 42 38.40
QUE 22.23 116 eP 42 37.60 1.9
SDI 22.26 278 P 42 36.50 0.6

eSn 43 32.40
AQU 22.43 280 P 42 36.30 -1.2
eSn 43 30.70

AZI 22.48 279 P 42 39.10 1.2
ARV 22.58 283 P 42 39.20 0.3
eSn 43 32.00

CLL 22.68 303 eP 42 44.00 4.2X
e 43 35.00

CRE 23.27 284 P 42 48.40 2.6X
SFI 23.30 284 P 42 47.60 1.7
PGD 23.40 284 P 42 48.40 1.3

MOX 23.44 301 eP 42 57.50 10.2X
e 43 50.00

FIR 23.74 284 e(P) 42 54.00 3.8X
PGF 25.59 282 eP 43 08.50 0.4

1.1s 34.20nm 5.0mb
SOD 26.56 345 iP 43 16.30 -0.4
LPG 26.70 289 eP 43 18.60 0.0

1.4s 43.55nm 5.0mb
HAU 26.77 295 eP 43 18.10 -0.8
1.1s 19.55nm 4.7mb

NB2 26.94 325 P 43 19.00 -1.4
0.9s 7.00nm 4.4mb

FRF 27.08 285 eP 43 22.60 0.9
1.1s 24.40nm 4.8mb

SSF 28.76 293 eP 43 36.00 -0.9
1.1s 12.20nm 4.6mb

AVF 28.90 292 eP 43 35.80 -2.3
1.2s 20.85nm 4.8mb

MAF 29.51 291 eP 43 40.60 -3.0X
1.2s 13.40nm 4.6mb

WMO 31.69 73 P 44 03.60 0.6
1.0s 100.00nm 5.7mb

eS 49 18.70
EKA 32.78 309 P 44 11.00 -1.3
0.8s 5.20nm 4.5mb

GKN 35.94 100 P 44 39.72 -0.3
DMN 36.51 101 P 44 44.90 0.0

KKN 36.53 100 P 44 44.34 -0.7
PKI 36.75 100 P 44 46.68 -0.3

GUN 36.90 100 P 44 48.38 0.1
HYB 38.69 120 eP 45 02.50 -0.5
AKU 40.79 326 iPd 45 22.20 2.5

1.3s 53.85nm 5.1mb
i 46 18.00
GBA 40.88 125 Pd 45 20.40 -0.6
0.9s 14.50nm 4.7mb

DAG 42.77 342 iPc 45 36.80 0.9
0.7s 17.81nm 4.9mb

iP 46 29.90 254kmX
LZH 45.99 77 eP 46 07.00 4.5X
1.0s 38.00nm 5.3mb

HHC 49.31 68 eP 46 31.50 3.1X
XAN 50.63 77 P 46 38.40 0.0

CHG 51.92 99 eP 46 47.70 -0.7
0.9s 11.13nm 4.8mb

GYA 53.02 86 P 46 56.40 -0.3
TIC 55.95 245 P 47 14.50 -3.5X

KIC 55.98 244 P 47 14.50 -3.7X
LIC 56.27 244 P 47 16.80 -3.5X

WHN 56.37 78 eP 47 21.50 0.6
NJ2 58.76 74 eP 47 37.50 -0.2

SSE 60.95 73 P 47 52.30 -0.4
1.2s 17.00nm 5.1mb

FRB 61.43 332 ePd 47 54.50 -1.0
pP 48 48.00 234kmX

BRW 65.48 7 eP 48 22.90 0.8
INK 69.43 359 eP 48 46.00 -0.9

ANM 70.76 13 eP 48 54.80 -0.3
IMA 70.85 7 eP 48 56.30 0.5

FBA 72.48 5 eP 49 05.90 0.5
YKA 73.87 350 eP 49 12.00 -1.5

0.9s 3.50nm 4.4mb
SVW 75.47 10 eP 49 33.00 10.2X
1.0s 6.00nm

BALM 76.63 3 eP 49 30.00 0.6
FFC 78.80 341 eP 49 41.00 -0.4

0.8s 11.00nm 5.0mb
EDM 82.59 346 eP 50 02.50 0.9

SES 84.86 344 ePc 50 13.20 0.0
PNT 87.36 349 eP 50 25.00 -0.5

SXM 88.93 343 ePd 50 34.40 1.1
LRM 89.51 344 eP 50 36.60 0.5

GOL 93.50 337 eP 50 54.80 0.1
1.5s 15.72nm 5.2mb

TUL 93.65 328 eP 50 54.20 -0.8
1.0s 12.10nm 5.2mb

PV09 95.67 339 iP 51 05.10 0.4
TNP 97.91 345 eP 51 08.30 -6.4X

1.5s 15.15nm 5.4mb
CLC 100.18 345 ePd if 151 07.00 -17.6X
S.D. = 1.0 on 65 of 83 obs.

APR 29, 1991 09h 59m 24.08 ± 0.39s
42.617 N ± 10.8km 43.400 E ± 4.4km
DEPTH = 10.0km (geophysicist)
4.6mb (26 obs.)
WESTERN CAUCASUS (362)

TAB 5.06 153 eP 00 51.00 9.0X
VRI 12.39 291 ePd 02 28.00 4.7X

ed 18 57.00
VAY 15.55 272 eP 03 10.40 5.5X

SPC 17.37 300 e(P) 03 27.40 -0.7
ZST 19.24 296 e(P) 03 51.20 0.2

KSP 20.23 303 eP 04 03.00 1.1
VBY 20.39 288 e(P) 04 03.30 -0.2

PRU 21.16 300 eP 04 17.00 5.5X
NUR 21.23 334 iP 04 12.00 -0.1

1.0s 26.00nm 4.6mb
KHC 21.67 298 eP 04 19.50 2.8

BRG 21.69 303 eP 04 17.00 0.2
KAF 22.01 338 iP 04 20.00 0.2

0.8s 19.30nm 4.6mb
esP 04 24.50

ARV 22.22 283 P 04 22.70 0.5
CLL 22.36 303 eP 04 24.00 0.5

CRE 22.91 283 P 04 32.10 3.0
SFI 22.94 284 P 04 31.50 2.3

PGD 23.04 284 P 04 32.30 1.8
SOTA 23.16 293 iPd 04 32.20 0.7

0.8s 28.80nm 4.9mb
GRF 23.26 299 eP 04 33.50 1.2

OGA 23.29 292 iPd 04 34.00 1.1
i 06 26.40

PGF 25.23 282 eP 04 52.70 1.1
0.9s 13.10nm 4.6mb

MMK 25.45 290 ePd 04 52.90 -0.8
CDF 25.80 296 eP 04 55.60 -1.2

0.8s 5.35nm 4.3mb
DIX 25.83 290 ePd 04 57.00 -0.3

SBF 26.11 285 eP 05 01.00 1.3
0.9s 26.20nm 4.9mb

BSF 26.14 294 eP 04 58.40 -1.6
EMS 26.16 290 ePd 04 59.50 -0.8

LPG 26.35 289 eP 05 01.50 -0.7
1.0s 14.00nm 4.6mb

LPL 26.36 289 eP 05 01.70 -0.5
1.0s 16.00nm 4.7mb

SOD 26.42 345 eP 05 03.00 0.8
i 05 18.60

HAU 26.43 295 eP 05 01.80 -0.8
1.0s 12.00nm 4.5mb

NB2 26.70 325 P 05 04.00 -0.9
0.7s 5.60nm 4.4mb

FRF 26.72 285 eP 05 04.90 -0.4
0.9s 16.40nm 4.7mb

LRG 26.95 285 eP 05 07.20 -0.1
LBF 26.10 293 eP 05 16.30 -1.5

1.2s 10.40nm 4.5mb
LOR 28.16 293 eP 05 16.60 -1.7

SMF 28.23 292 eP 05 16.60 -2.4
1.0s 6.00nm 4.3mb

SSF 28.41 293 eP 05 19.20 -1.4
1.1s 8.55nm 4.5mb

KEV 28.49 348 eP 05 22.00 1.0
AVF 28.55 292 eP 05 20.80 -1.0

0.8s 13.45nm 4.8mb
MAF 29.16 291 eP 05 26.80 -0.5

1.0s 12.00nm 4.6mb
TCF 29.39 291 eP 05 28.70 -0.8

1.1s 11.00nm 4.6mb
LSF 29.87 292 eP 05 32.50 -1.2

1.1s 14.65nm 4.7mb
WMO 32.02 72 P 05 53.50 0.8

eS 11 03.00
GKN 36.30 100 P 06 29.80 0.0

0.8s 34.00nm 5.2mb
DMN 36.87 100 P 06 34.80 0.1

1.0s 34.00nm 5.1mb
KKN 36.89 100 P 06 34.80 -0.1

0.9s 31.00nm 5.1mb
PKI 37.11 100 P 06 37.00 0.2

0.9s 28.00nm 5.0mb
GUN 37.26 99 P 06 38.00 -0.1

0.7s 23.00nm 5.1mb
GBA 41.20 124 P 07 11.00 0.5

0.4s 1.90nm 4.2mb
CD2 48.81 83 eP 08 11.60 0.3

XAN 50.96 77 P 08 27.50 -0.3
TIY 51.66 71 eP 08 36.80 3.7X

GYA 53.37 86 P 08 45.60 -0.5
KIC 55.68 244 P 08 59.00 -3.9X

WHN 56.70 77 eP 09 10.00 -0.1
FRB 61.21 332 eP 09 39.00 -1.9

SSE 61.27 73 eP 09 41.50 -0.3
INK 69.38 359 eP 10 32.00 -1.4

FBA 72.46 5 eP 10 53.50 1.4
YKA 73.76 350 eP 10 58.70 -1.0

0.7s 2.30nm 4.3mb
FFC 78.63 340 iPc 11 27.00 -0.3

0.5s 4.00nm 4.7mb
SES 84.71 344 eP 11 59.00 -0.3

SXM 88.78 343 eP 12 20.30 0.9
S.D. = 1.1 on 64 of 72 obs.

APR 29, 1991 10h 01m 12.43 ± 0.35s
42.356 N ± 9.9km 43.864 E ± 3.8km
DEPTH = 10.0km (geophysicist)
4.8mb (27 obs.)
WESTERN CAUCASUS (362)

ISR 12.83 288 eP 04 35.00 17.4X
e 18 30.00

MLR 13.29 290 eP 04 31.00 7.2X
e 18 57.00

DEV 15.45 290 ePc 04 53.00 1.0
VAY 15.90 273 eP 05 03.60 5.8X

SKO 16.63 276 eP 05 08.50 1.5
BEO 17.13 286 eP 05 15.50 2.2

OHR 17.26 274 eP 05 14.50 -0.5
SPC 17.79 301 e(P) 05 16.60 -5.2X

			e	19	38.70		KIC	55.87	244	P	10	50.80	-1.8	EKA	32.63	309	P	22	11.00	2.5X
			e	23	44.80		LIC	56.16	244	P	10	53.00	-1.7		0.8s		3.10nm			4.3mb
ZST	19.66	296	iP	05	46.50	2.2	NJ2	58.83	73	eP	11	13.00	-0.4	DAG	42.57	342	ePc	23	31.90	0.2
HVAR	20.12	282	iP	05	48.40	-0.7	SSE	61.02	73	eP	11	26.50	-1.9	LZH	45.96	77	eP	24	00.00	0.3
KSP	20.66	304	eP	05	53.50	-1.2	FRB	61.61	332	eP	11	31.00	-0.9		1.4s		22.00nm			5.0mb
VBY	20.80	288	e(P)	05	56.00	-0.1	BRW	65.69	7	eP	11	58.80	0.2	CD2	48.45	84	eP	24	17.50	-1.7
LJU	21.29	290	e(P)	05	58.20	-3.0	INK	69.64	359	eP	12	22.00	-1.4	HHC	49.24	68	eP	24	31.80	6.5X
PRU	21.59	301	eP	06	04.00	-0.2	ANM	70.97	13	eP	12	31.50	0.0	TIY	51.28	71	eP	24	43.20	2.4
NUR	21.62	334	eP	06	05.80	1.5	IMA	71.06	7	eP	12	32.10	-0.2	BJI	52.74	67	eP	24	53.00	1.3
VOY	21.74	290	e(P)	06	05.90	0.1		1.3s		12.70nm			4.9mb	TIC	56.03	244	P	25	32.22	16.1X
DUI	21.82	278	P	06	07.90	1.3	FBA	72.69	5	eP	12	41.90	0.1	KIC	56.06	244	P	25	32.46	16.2X
TRI	21.84	289	P	06	07.20	0.6	YKA	74.08	350	eP	12	42.50	-7.4X	LIC	56.35	244	P	25	34.46	16.1X
KHC	22.09	298	eP	06	09.80	0.5		0.9s		3.70nm			4.4mb	SSE	60.90	73	eP	26	06.50	16.7X
	1.5s		26.50nm			4.5mb	SVW	75.68	10	eP	12	59.90	0.7	FRB	61.23	332	eP	25	51.00	-0.6
BRG	22.12	303	eP	06	10.10	0.6	FFC	78.99	341	eP	13	17.00	-0.6				eP	26	13.00	87km
			e	06	16.70			0.6s		6.00nm			4.8mb	INK	69.22	359	eP	26	45.00	2.0
SDI	22.28	279	P	06	11.70	0.5	EDM	82.79	346	eP	13	37.00	-0.8	FBA	72.27	5	eP	26	58.00	-3.6X
KAF	22.38	338	iP	06	13.20	1.3	SES	85.06	344	eP	13	49.00	-0.3	YKA	73.66	350	eP	27	08.00	-1.7
	0.8s		42.50nm			5.0mb	SXM	89.13	343	eP	14	10.00	0.5		0.6s		1.60nm			4.2mb
			eS	06	17.10		GOL	93.69	337	eP	14	39.00	8.3X	FFC	78.59	341	eP	27	37.00	-0.7
AZI	22.50	279	P	06	16.20	2.9		1.0s		4.50nm			4.8mb		0.5s		3.00nm			4.6mb
CLL	22.79	304	ePd	06	21.00	4.9X	TUL	93.82	328	eP	14	30.20	-0.8	EDM	82.38	346	eP	27	57.00	-0.9
	1.7s		59.00nm			4.8mb		1.0s		12.50nm			5.2mb	SES	84.65	344	eP	28	09.00	-0.6
GRF	23.68	299	eP	06	23.50	-1.3	PV09	95.86	339	iP	14	31.00	-9.8X	SXM	88.72	343	eP	28	29.30	-0.5
			e	06	29.00		TNP	98.11	345	eP	14	51.80	1.0				e	28	51.80	
UPP	23.79	326	iP	06	30.50	4.9X		S.D. = 1.1 on 77 of 88 obs.												
MAO	24.08	281	P	06	30.80	2.1														
BDI	24.22	285	P	06	32.50	2.4														
OSS	24.32	292	ePd	06	32.00	0.8														
VDL	24.79	291	ePd	06	36.70	0.9														
LLS	25.10	292	ePd	06	38.50	-0.2														
SLE	25.41	294	ePd	06	41.10	-0.4														
ZLA	25.49	294	ePd	06	42.10	-0.1														
PGF	25.62	282	eP	06	45.60	2.0														
	0.9s		14.75nm			4.7mb	TAB	5.07	157	e(P)	16	59.00	6.3X	TAB	4.64	152	eP	21	05.00	11.7X
FEL	25.73	295	eP	06	45.83	1.2	OBN	13.21	341	eP	18	45.00	0.3				i	21	10.00	
MMK	25.86	291	ePd	06	45.30	-0.6	COZ	14.27	287	eP	18	46.00	-12.9X	SKO	16.44	277	eP	23	32.00	-1.6
CDF	26.22	296	eP	06	48.20	-0.9	VAY	15.88	272	eP	19	22.40	2.6	OHR	17.06	274	eP	23	47.50	6.0X
	0.9s		3.30nm			4.0mb	SKO	16.59	275	eP	19	30.40	1.6	ZST	19.54	297	eP	24	15.00	3.1X
DIX	26.24	291	ePd	06	50.00	0.5	OHR	17.23	272	eP	19	36.00	-1.0				e	35	11.30	
SBF	26.51	286	eP	06	52.00	0.3	ZST	19.48	295	eP	20	05.70	1.2				e	40	21.20	
	0.9s		18.00nm			4.8mb								KSP	20.57	304	eP	24	23.50	0.8
EMS	26.57	291	ePd	06	52.10	-0.4	HVAR	20.03	281	e(Pn)	20	07.70	-2.8	PRU	21.49	301	Pd	24	36.00	4.0X
LPL	26.77	290	eP	06	53.90	-0.4	PTJ	20.16	288	eP	20	10.00	-1.9	NUR	21.66	334	iP	24	38.00	4.4X
	1.0s		16.00nm			4.7mb	KSP	20.43	303	eP	20	14.00	-0.6		0.9s		25.30nm			4.6mb
HAU	26.85	295	eP	06	53.80	-1.0								KHC	21.98	299	Pc	24	43.00	5.9X
	0.9s		6.55nm			4.3mb								BRG	22.03	303	eP	24	45.40	7.9X
MEM	27.10	301	P	07	01.80	4.9X	VBY	20.66	287	e(P)	20	18.00	1.0		1.2s		14.00nm			4.3mb
NB2	27.11	325	P	06	55.60	-1.4	LJU	21.15	289	e(P)	20	22.50	0.5				e	24	53.10	
	1.1s		18.70nm			4.7mb	NUR	21.24	333	iP	20	29.60	6.9X	CLL	22.70	304	eP	24	48.00	3.9X
FRF	27.12	285	eP	06	57.00	-0.3		0.9s		28.70nm			4.7mb		1.4s		51.00nm			4.8mb
	0.9s		16.40nm			4.7mb	PRU	21.38	300	eP	20	24.50	0.2	UPP	23.79	327	iP	24	54.60	0.0
DOU	27.98	300	P	07	04.60	-0.4								PGF	25.45	283	eP	25	11.10	0.2
LBF	28.52	293	eP	07	08.70	-1.3									1.4s		39.20nm			4.9mb
	1.0s		8.00nm			4.5mb	VOY	21.60	289	e(P)	20	28.00	1.4	FEL	25.61	295	eP	25	18.13	5.8X
LOR	28.57	294	eP	07	09.10	-1.3	TRI	21.70	288	P	20	27.10	-0.5	LPG	26.61	290	eP	25	23.20	1.3
SMF	28.65	292	eP	07	10.00	-1.1	BRG	21.89	302	eP	20	31.80	2.3		0.9s		6.55nm			4.3mb
SSF	28.83	293	eP	07	11.30	-1.4		1.5s		23.00nm			4.4mb	SOD	26.84	346	iP	25	24.60	1.2
	0.8s		6.05nm			4.4mb	KHC	21.90	297	eP	20	32.70	3.1X				i	25	33.20	
AVF	28.97	293	eP	07	13.00	-0.9		1.5s		28.00nm			4.5mb	FRF	26.96	285	eP	25	25.20	0.5
	0.9s		13.90nm			4.7mb	KBA	21.95	292	e(P)	20	26.00	-4.3X		0.8s		6.70nm			4.4mb
MAF	29.57	292	eP	07	19.10	-0.3	KAF	21.98	338	iP	20	30.30	0.1	NB2	27.11	325	P	25	24.80	-1.1
	1.2s		14.90nm			4.7mb		0.9s		33.40nm			4.8mb		1.0s		7.80nm			4.4mb
TCF	29.81	292	eP	07	21.00	-0.5								AVF	28.83	293	eP	25	41.60	0.0
	1.2s		11.90nm			4.6mb	QUE	22.33	117	eP	20	33.80	-0.4		0.8s		5.35nm			4.4mb
LSF	30.28	292	eP	07	25.00	-0.7	AQU	22.38	279	P	20	34.60	0.1	KEV	28.91	348	eP	25	26.00	-16.0X
EKA	32.90	310	Pd	07	47.70	-0.8	AZI	22.44	278	P	20	34.30	-0.6	WMO	32.00	72	P	26	08.50	-1.4
	0.8s		6.70nm			4.6mb	ARV	22.52	282	P	20	35.60	-0.2				S	31	19.00	
GKN	35.92	100	P	08	15.80	0.8	CLL	22.56	303	eP	20	35.00	-1.0	EKA	32.83	310	P	26	17.00	0.1
	0.7s		22.00nm			5.1mb		1.7s		88.00nm			5.0mb		0.8s		3.80nm			4.4mb
DMN	36.48	100	P	08	21.00	1.2	MNS	22.90	280	P	20	37.80	-1.8	G8A	40.86	124	Pc	27	15.70	-9.2X
	0.7s		28.00nm			5.2mb	SFI	23.23	284	P	20	43.00	0.3		0.9s		7.30nm			4.4mb
KKN	36.51	100	P	08	20.60	0.6	MOX	23.32	301	eP	20	52.00	8.4X	GTA	41.99	74	eP	27	34.60	0.3
	0.7s		22.00nm			5.1mb	PGD	23.33	284	P	20	44.90	1.0		1.0s		100.00nm			5.5mb X
PKI	36.73	100	P	08	22.80	0.8	UPP	23.44	326	iP	20	51.80	7.3X	DAG	43.05	343	eP	27	36.00	-6.2X
	0.8s		23.00nm			5.0mb	GRF	23.48	298	e(P)	20	42.50	-2.6	LZH	46.28	77	eP	28	10.50	1.6
GUN	36.88	99	P	08	24.00	0.7									1.2s		26.00nm			5.1mb
LZH	46.05	77	eP	09	39.00	0.8	FIR	23.68	284	e(P)	20	28.00	-19.1X	HHC	49.65	67	eP	28	38.20	3.2X
	1.0s		18.00nm			5.0mb	MME	24.02	285	P	20	50.90	0.3	XAN	50.92	76	P	28	43.90	-0.8
CD2	48.50	83	eP	09	57.80	0.5	BOB	24.82	286	P	21	00.10	1.8	TIY	51.66	71	eP	28	54.00	3.7X
HHC	49.40	68	eP	10	03.70	-0.5	SOD	26.35	345	iP	21	12.90	0.7	CHG	52.08	99	eP	28	52.50	-1.1
XAN	50.69	77	Pc	10	14.10															

29d 10h

YKA 74.18 350 eP 31 14.00 -5.4X
0.7s 1.70nm 4.2mb
FFC 79.06 340 eP 31 46.00 -0.9
0.6s 5.00nm 4.7mb
EDM 82.88 346 eP 32 07.00 -0.2
SES 85.14 344 eP 32 15.00 -3.6X
SXM 89.20 343 ePd 32 39.30 0.6
PV09 95.92 339 iP 33 10.20 0.2
S.D. = 1.1 on 24 of 42 obs.

• APR 29, 1991 10h 20m 35.71±2.20s
42.083 N ±13.2km 0.415 E ±24.2km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
mbLg 3.0 (MDD).

EGRA 0.55 282 ePg 20 38.50 -8.5X
eSg 20 42.50
EROQ 1.26 180 eP 20 58.90 -0.2
eS 21 17.90
EBR 1.26 177 ePg 20 59.00 -0.1
eSg 21 08.00
ISSF 1.30 317 Pg 21 20.45 20.6X
MADF 1.40 320 Pg 21 01.92 0.6
Sg 21 23.07
ECRI 2.23 285 eP 21 12.00 -1.3
eS 21 40.70
ETOR 2.25 237 eP 21 14.60 1.0
eS 21 45.70
S.D. = 1.3 on 5 of 7 obs.

• APR 29, 1991 10h 30m 45.58±0.65s
43.245 N ±15.3km 42.644 E ±21.3km
DEPTH = 10.0km (geophysicist)
4.3mb (6 obs.)
WESTERN CAUCASUS (362)

TAB 5.88 150 eP 32 15.00 0.0
KHC 20.89 296 eP 35 36.40 6.2X
KAF 21.22 339 iP 35 37.80 4.4X
0.6s 4.30nm 4.0mb
esP 35 42.00
CLL 21.55 302 eP 35 42.00 5.1X
1.1s 14.00nm 4.3mb
SOTA 22.41 291 iPd 35 45.20 -0.5
1.0s 20.20nm 4.5mb
NB2 25.87 324 P 36 24.20 5.5X
0.8s 3.80nm 4.1mb
FRB 60.40 332 eP 40 58.00 1.1
pP 41 47.00 214kmX
FBA 71.89 5 eP 42 09.60 -0.6
YKA 73.04 349 eP 42 16.00 -1.0
1.1s 2.50nm 4.2mb
FFC 77.85 340 eP 42 45.00 0.5
0.6s 4.00nm 4.7mb
SES 83.96 343 eP 43 17.00 0.1
SXM 88.01 342 eP 43 37.50 0.3
S.D. = 0.8 on 8 of 12 obs.

• APR 29, 1991 10h 52m 42.26±0.36s
42.712 N ±9.6km 44.102 E ±4.3km
DEPTH = 10.0km (geophysicist)
4.6mb (19 obs.)
WESTERN CAUCASUS (362)

TAB 4.94 159 eP 54 07.00 8.6X
ISR 12.89 287 eP 55 55.00 6.8X
e 13 22.00
OBN 13.33 341 eP 55 54.00 0.1
MLR 13.34 288 eP 55 52.00 -2.3
VAY 16.06 272 eP 56 32.00 2.3
SKO 16.77 275 eP 56 38.40 -0.2
OHR 17.41 273 eP 56 46.00 -0.8
SPC 17.77 300 eP 56 47.60 -3.7X
e 08 39.80
UZD 18.54 291 e(P) 57 02.00 1.4
ZST 19.67 295 eP 57 14.50 0.3
e 57 31.80
PTJ 20.35 289 eP 57 18.50 -2.9
KSP 20.61 303 eP 57 23.00 -1.0
VBY 20.85 288 e(P) 57 22.80 -3.7X
LJU 21.34 289 eP 57 31.50 0.0
NUR 21.38 333 iP 57 31.30 -0.4
0.9s 25.30nm 4.6mb
CEY 21.42 288 e(P) 57 32.50 0.1
PRU 21.56 300 eP 57 33.80 0.1
VOY 21.78 289 e(P) 57 35.50 -0.6

DUI 21.94 277 P 57 36.90 -0.8
BRG 22.08 302 eP 57 44.40 5.5X
1.6s 26.00nm 4.4mb
KHC 22.08 297 eP 57 38.50 -0.5
KAF 22.11 338 eP 57 39.30 0.2
1.0s 54.70nm 4.9mb
esP 57 47.10
FVI 22.54 291 P 57 43.10 -0.3
AZI 22.62 279 P 57 46.40 2.1
ARV 22.70 283 P 57 44.00 -1.1
CLL 22.74 303 eP 57 46.00 0.6
1.2s 29.00nm 4.7mb
CRE 23.39 283 P 57 53.40 1.4
SFI 23.42 284 P 57 52.60 0.5
MOX 23.51 301 eP 57 58.00 5.1X
PGD 23.52 284 P 57 54.40 1.1
UPP 23.59 326 iP 57 58.60 5.0X
GRF 23.67 299 eP 57 52.00 -2.5
MME 24.20 285 P 58 00.90 0.9
BOB 25.01 287 P 58 09.60 2.0
SOD 26.46 345 iP 58 22.00 1.2
i 58 37.80
SBF 26.58 285 eP 58 22.30 0.1
1.1s 31.75nm 4.9mb
LPL 26.82 289 eP 58 25.20 0.6
1.0s 16.00nm 4.7mb
NB2 26.92 324 P 58 23.60 -1.6
1.1s 10.10nm 4.4mb
KEV 28.50 348 eP 58 55.00 15.7X
AVF 28.99 292 eP 58 43.20 -0.7
1.1s 12.20nm 4.6mb
NDI 30.10 107 eP 58 54.00 -0.1
WMO 31.49 73 P 59 07.50 1.2
eS 04 25.00
EKA 32.81 309 P 59 19.00 1.4
0.9s 4.00nm 4.3mb
GKN 35.81 101 P 59 44.62 0.7
DMN 36.38 101 P 59 49.12 0.4
KKN 36.40 101 P 59 49.32 0.4
PKI 36.62 101 P 59 49.78 -1.1
0.2s 3.00nm 4.7mb
GUN 36.76 100 P 59 50.08 -2.0
GBA 40.83 125 Pc 00 24.80 -0.8
0.9s 7.80nm 4.4mb
GTA 41.49 75 P 00 34.60 3.5X
1.0s 20.00nm 4.8mb
DAG 42.69 342 iPc 00 40.90 0.7
0.7s 11.64nm 4.7mb
LZH 45.80 77 eP 01 07.00 1.0
1.4s 41.00nm 5.2mb
SP 01 15.00
HHC 49.11 68 P 01 37.60 5.8X
XAN 50.43 77 P 01 42.00 0.0
TIY 51.13 71 Pd 01 52.20 4.9X
CHG 51.78 100 eP 01 51.00 -1.3
BJI 52.61 67 eP 02 03.00 4.7X
GYA 52.85 87 P 02 02.00 1.6
TIC 56.16 245 P 02 19.30 -5.2X
WHN 56.18 78 eP 02 24.50 0.0
FRB 61.37 332 eP 02 59.00 -1.2
INK 69.29 359 eP 03 50.00 -1.0
FBA 72.32 5 eP 04 10.30 0.8
1.0s 4.50nm 4.5mb
YKA 73.76 350 eP 04 16.70 -1.1
0.6s 1.40nm 4.2mb
FFC 78.71 341 ePc 04 45.50 -0.4
0.8s 6.00nm 4.7mb
EDM 82.49 347 eP 05 07.00 1.0
SES 84.76 344 eP 05 17.00 -0.7
PNT 87.25 349 eP 05 30.00 0.1
SXM 88.84 343 eP 05 38.50 0.6
GOL 93.43 337 eP 05 54.50 -4.8X
1.0s 4.50nm 4.8mb
PV09 95.59 339 eP 06 10.00 0.6
WB2 103.43 105 ePd 06 40.90 -3.5X
0.9s 0.60nm 4.4mb
S.D. = 1.2 on 57 of 72 obs.

• APR 29, 1991 11h 04m 28.92±0.69s
42.510 N ±10.7km 43.816 E ±9.2km
DEPTH = 10.0km (geophysicist)
4.3mb (8 obs.)
WESTERN CAUCASUS (362)

TAB 4.83 156 eP 05 53.00 9.4X
KVT 5.98 259 ePn 05 58.80 -0.8
ISR 12.75 288 eP 07 45.00 12.0X

OBN 13.46 342 eP 07 42.00 -0.2
SKO 16.58 276 eP 08 24.00 1.1
ZST 19.56 296 eP 09 05.80 6.1X
KSP 20.55 303 eP 09 14.50 4.5X
NUR 21.46 334 iP 09 22.40 3.2X
0.8s 16.10nm 4.5mb
e 09 53.00
KHC 21.99 298 eP 09 32.00 7.3X
BRG 22.01 303 eP 09 33.50 8.7X
1.1s 14.00nm 4.3mb
KAF 22.22 338 iP 09 27.30 0.5
0.4s 3.00nm 4.1mb
esP 09 27.90
CLL 22.67 303 eP 09 35.00 3.6X
HFS 25.45 324 eP 09 58.20 0.0
0.7s 11.30nm 4.7mb
Z 15s 3.12um 5.0MsZ
SOD 26.60 345 iP 10 09.50 0.8
i 10 25.80
NB2 26.96 325 P 10 11.80 -0.4
0.7s 2.90nm 4.1mb
KEV 28.65 348 eP 10 45.00 17.7X
GBA 40.88 125 P 12 14.00 1.3
0.6s 2.70nm 4.1mb
DAG 42.82 342 iPc 12 29.00 1.1
0.5s 8.45nm 4.7mb
CHG 51.96 99 eP 13 39.30 -1.0
FRB 61.45 332 eP 14 46.00 -1.4
YKA 73.92 350 eP 16 04.50 -0.9
0.7s 0.90nm 3.9mb
SES 84.90 344 eP 17 05.00 0.0
S.D. = 1.0 on 13 of 22 obs.

• APR 29, 1991 11h 10m 11.95±0.34s
42.584 N ±9.6km 43.904 E ±3.8km
DEPTH = 10.0km (geophysicist)
4.7mb (17 obs.) 4.5MsZ (1 obs.)
WESTERN CAUCASUS (362)

TAB 4.88 157 iPc 11 38.00 10.8X
KVT 6.06 258 ePn 11 41.60 -2.2
KAS 7.65 264 eP 12 06.00 -0.2
VAY 15.92 273 eP 14 02.40 4.9X
SKO 16.63 276 eP 14 06.40 -0.2
BEO 17.09 286 eP 14 13.50 1.1
OHR 17.27 273 eP 14 17.00 2.3
1.6s 153.00nm 4.9mb
PSZ 17.70 296 eP 14 20.00 0.0
SPC 17.71 300 eP 14 18.40 -1.8
UZD 18.45 291 e(P) 14 30.00 0.8
ZST 19.59 296 iP 14 45.80 2.8X
HVAR 20.10 281 iP 14 46.20 -2.2
ZAG 20.23 289 eP 14 50.30 0.5
PTJ 20.25 289 eP 14 49.40 -0.7
KSP 20.56 303 eP 14 53.50 0.3
VBY 20.75 288 e(P) 14 55.30 0.1
LJU 21.24 289 e(P) 15 00.00 -0.2
CEY 21.33 289 e(P) 15 04.00 2.9X
NUR 21.43 333 iP 14 59.20 -2.7X
e 15 05.00
PRU 21.50 300 eP 15 02.50 -0.3
e 15 06.10
e 15 50.00
VOY 21.69 289 eP 15 04.60 -0.2
TRI 21.79 289 eP 15 05.40 -0.3
KHC 22.01 298 P 15 08.50 0.5
1.5s 26.50nm 4.4mb
i 15 12.80
BRG 22.02 302 eP 15 08.90 0.9
e 15 12.50
KAF 22.18 338 iP 15 12.00 2.6X
1.1s 95.20nm 5.2mb
esP 15 19.50
QUE 22.22 116 eP 15 11.80 1.5
WET 22.47 298 iPd 15 22.50 10.0X
CLL 22.69 303 iP 15 15.80 1.2
1.7s 88.00nm 5.0mb
CRE 23.28 284 P 15 23.60 3.0X
PGD 23.41 284 P 15 24.10 2.2
MOX 23.45 301 eP 15 30.00 7.9X
1.7s 34.00nm 4.6mb
SOTA 23.51 293 iPd 15 23.80 1.0
1.0s 52.90nm 5.1mb
i 15 28.90
GRF 23.60 299 eP 15 23.30 -0.2
UPP 23.62 326 iP 15 32.50 9.0X

OGA	23.65	292	iPd	15	25.20	1.0	DEPTH = 10.0km (geophysicist)	FEL	25.61	294	eP	56	41.99	0.6
MME	24.10	285	P	15	31.20	2.6	4.9mb (40 obs.)	CKI	25.72	286	P	56	39.70	-2.6
OSS	24.26	291	ePd	15	30.50	0.4	4.9Msz (1 obs.)	MMK	25.75	290	ePc	56	41.70	-1.1
VDL	24.73	291	ePd	15	35.50	0.7	WESTERN CAUCASUS	CDF	26.09	296	eP	56	44.80	-1.0
BOB	24.91	287	P	15	39.10	2.8	TAB	4.89	156	eP	52	28.00	2.2	
LLS	25.04	292	ePd	15	37.30	-0.4	KVT	5.99	258	iPn	52	39.10	-2.1	
SLE	25.35	294	ePd	15	39.90	-0.5	BBTK	8.77	256	eP	53	25.00	4.8X	
ZLA	25.42	293	ePd	15	40.80	-0.4	HRT	10.73	265	iP	53	44.90	-2.1	
HFS	25.43	324	eP	15	41.30	0.3	DST	11.84	261	eP	54	02.40	0.2	
	0.9s	30.40nm			5.0mb		IAS	12.42	297	eP	54	14.00	4.1X	
Z	18s	1.46um			4.5Msz		VRI	12.70	291	eP	54	28.00	14.4X	
		e		15	48.00		MLR	13.19	289	ePd	54	21.00	0.7	
PGF	25.60	282	eP	15	43.30	0.4	OBN	13.40	342	eP	54	24.00	1.2	
	1.2s	23.80nm			4.8mb		CMP	13.80	288	iPc	54	30.00	1.7	
MMK	25.81	290	ePd	15	44.30	-0.7	PRNI	14.10	213	eP	54	33.00	0.7	
DIX	26.19	290	ePd	15	48.20	-0.3	COZ	14.30	288	eP	54	46.00	11.1X	
SBF	26.47	285	eP	15	50.90	0.0	VAY	15.86	273	eP	54	58.50	3.4X	
EMS	26.52	290	ePd	15	50.80	-0.7	BZS	16.23	288	eP	55	00.00	0.2	
SOD	26.55	345	iP	15	51.90	0.6	BEO	17.03	286	eP	55	12.00	2.0	
		i		16	10.00		OHR	17.21	273	eP	55	14.20	1.9	
LPL	26.72	289	eP	15	53.20	-0.2		1.3s	129.00nm			4.9mb		
	1.0s	10.00nm			4.5mb		PSZ	17.64	296	eP	55	17.20	-0.5	
HAU	26.78	295	eP	15	53.00	-0.7	SPC	17.66	300	eP	55	15.40	-2.6	
NB2	26.94	325	P	15	54.30	-0.7	UZD	18.39	291	e(P)	55	28.00	1.1	
	1.2s	18.00nm			4.6mb		SRO	18.68	295	eP	55	38.20	7.8X	
LBF	28.46	293	eP	16	07.80	-1.1			e	04	18.30			
SMF	28.59	292	eP	16	09.20	-0.8	ZST	19.54	296	eP	55	40.30	-0.5	
SSF	28.77	293	eP	16	10.90	-0.8	HVAR	20.04	281	iP	55	45.20	-1.0	
AVF	28.90	292	eP	16	12.10	-0.8	PTJ	20.19	289	eP	55	46.90	-1.0	
	1.0s	8.00nm			4.5mb		GAR	20.35	91	eP	55	49.00	-0.6	
MAF	29.52	291	eP	16	17.80	-0.6	KSP	20.51	303	eP	55	51.50	0.4	
	1.1s	12.20nm			4.6mb		VBY	20.69	288	ePc	55	52.40	-0.6	
TCF	29.75	292	eP	16	20.10	-0.4	LJU	21.19	289	ePc	55	57.00	-1.0	
MFF	31.32	293	eP	16	33.00	-1.3			e	56	02.00			
WMO	31.67	73	P	16	38.50	0.9	CEY	21.27	289	e(P)	55	58.50	-0.4	
EKA	32.78	309	Pc	16	52.10	5.1X	RIY	21.31	288	eP	55	59.80	0.5	
	0.9s	8.10nm			4.7mb		NUR	21.41	334	iP	56	00.10	0.0	
GKN	35.93	100	P	17	15.14	0.6		0.9s	38.90nm			4.8mb		
DMN	36.49	101	P	17	18.96	-0.5			i	56	18.80			
KKN	36.52	100	P	17	19.08	-0.5	PRU	21.45	300	eP	56	00.00	-0.6	
PKI	36.74	100	P	17	21.42	-0.2			e	56	04.00			
GUN	36.89	100	P	17	18.66	-4.2X	VOY	21.63	289	eP	55	58.20	-4.4X	
GBA	40.87	125	Pd	17	54.90	-0.8	TRI	21.73	289	eP	56	03.90	0.4	
	0.9s	4.40nm			4.2mb		DUI	21.75	278	P	56	04.70	0.8	
LZH	45.97	77	eP	18	33.00	-4.1X	KHC	21.96	298	iPd	56	06.60	0.8	
	1.5s	23.00nm			4.9mb			1.5s	45.00nm			4.7mb		
		SP		18	42.50		BRG	21.98	303	iPc	56	06.30	0.4	
CD2	48.44	83	eP	18	57.00	0.6		1.6s	28.00nm			4.4mb		
HHC	49.29	68	eP	19	04.00	1.1			e	56	10.00			
XAN	50.61	77	P	19	13.30	0.3	KAF	22.16	338	iP	56	10.50	2.9X	
TIY	51.31	71	eP	19	23.40	5.1X		0.9s	76.30nm			5.1mb		
YAK	51.69	37	eP	19	18.50	-2.2			eSP	56	17.40			
		e		21	33.00		SDI	22.21	278	P	56	09.00	0.6	
CHG	51.90	99	eP	19	21.50	-1.4	QUE	22.27	116	eP	56	11.00	1.8	
GYA	53.00	86	P	19	35.00	3.8X	AQU	22.38	280	P	56	12.30	2.2	
KIC	56.00	244	P	19	50.60	-2.4X	FVI	22.39	291	P	56	10.80	0.8	
FRB	61.42	332	eP	20	30.00	-0.2	AZI	22.43	279	P	56	12.10	1.6	
INK	69.42	359	eP	21	21.00	-0.5	ARV	22.53	283	P	56	12.10	0.6	
YKA	73.86	350	eP	21	47.00	-1.1	CLL	22.64	303	eP	56	13.00	0.5	
	0.9s	2.70nm			4.3mb			1.5s	135.00nm			5.2mb		
FFC	78.79	341	eP	22	16.00	0.0	RSM	22.82	284	P	56	16.00	1.7	
	0.7s	6.00nm			4.7mb		MNS	22.91	280	P	56	16.40	1.2	
SES	84.85	344	ePc	22	48.00	0.2	CTI	23.19	290	P	56	19.30	1.2	
SXM	88.92	343	eP	23	08.70	0.7	CRE	23.22	284	P	56	21.20	2.8X	
PV09	95.66	339	eP	23	40.10	0.7	SFI	23.25	284	P	56	19.70	1.2	
	S.D. = 1.0	on 67 of 83 obs.					PGD	23.35	284	P	56	21.80	2.1	
							MOX	23.40	301	eP	56	26.70	6.7X	
								1.5s	39.00nm			4.7mb		
7 APR 29, 1991 11h 26m 24.56±10.89s							GRF	23.55	299	eP	56	20.50	-0.9	
33.130 S ±68.5km 67.893 W ±63.7km							UPP	23.59	326	iP	56	26.70	5.1X	
DEPTH = 33.0km (normal)							OGA	23.59	292	iPd	56	23.10	1.0	
MENDOZA PROVINCE, ARGENTINA (139)							MAO	24.01	281	P	56	27.20	1.3	
							MME	24.04	285	P	56	28.50	2.1	
MDZ	0.84	287	iP	26	40.00	0.0	BDI	24.13	285	P	56	28.60	1.5	
		iS		26	52.20		OSS	24.20	291	ePc	56	28.70	0.8	
CFA	1.55	349	ePc	26	50.30	0.1	VDL	24.68	291	ePc	56	33.00	0.4	
		eS		27	06.00		BOB	24.85	287	P	56	36.50	2.4	
ZON	1.71	337	iPd	26	52.30	-0.3	LLS	24.98	292	ePc	56	35.00	-0.5	
		eS		27	08.30		SLE	25.29	294	ePc	56	37.70	-0.5	
RTCB	1.81	335	ePd	26	53.90	-0.1	ZLA	25.37	293	eP+	56	38.20	-0.8	
		eS		27	14.00		HFS	25.40	324	eP	56	40.70	1.6	
RTLL	1.86	345	iPc	26	54.80	0.1		0.9s	60.30nm			5.3mb		
		S		27	14.00		Z	19s	3.18um			4.9Msz		
RTBS	1.97	318	ePc	26	56.50	0.3			e	56	44.20			
	S.D. = 0.3	on 6 of 6 obs.						LR	04	46.00				
							PGF	25.54	282	eP	56	40.40	-0.3	
								1.1s	31.75nm			4.9mb		
APR 29, 1991 11h 51m 10.32±0.22s														
42.572 N ± 5.5km 43.816 E ± 2.8km														

29d 12h

WHN 56.41 78 eP 00 54.50 0.3
 NJ2 58.81 74 eP 01 10.00 -1.1
 SSE 60.99 73 P 01 25.50 -0.6
 1.3s 20.00nm 5.1mb
 FRB 61.40 332 eP 01 28.00 -0.4
 BRW 65.48 7 eP 01 55.90 0.7
 INK 69.43 359 eP 02 19.00 -0.9
 SLR 69.46 195 eP 02 20.00 -0.8
 0.7s 10.27nm 5.1mb
 ANM 70.76 13 eP 02 28.80 0.6
 IMA 70.85 7 eP 02 29.20 0.3
 1.3s 24.00nm 5.2mb
 FBA 72.48 5 eP 02 39.10 0.6
 TTA 73.65 9 eP 02 45.40 0.0
 YKA 73.86 350 eP 02 45.40 -1.1
 0.8s 4.10nm 4.5mb
 SVW 75.47 10 eP 02 57.50 1.6
 1.0s 5.50nm 4.6mb
 FFC 78.78 341 iPc 03 14.50 0.2
 0.8s 13.00nm 5.0mb
 EDM 82.58 346 ePc 03 35.00 0.4
 SES 84.84 344 ePc 03 46.20 0.1
 PNT 87.34 349 eP 03 59.00 0.5
 SXM 88.91 343 ePc 04 07.20 0.9
 GOL 93.48 337 eP 04 26.90 -0.7
 1.0s 6.50nm 5.0mb
 TUL 93.62 328 eP 04 27.40 -0.6
 0.8s 9.70nm 5.2mb
 PV09 95.65 339 iP 04 38.20 0.5
 TNP 97.89 345 iP 04 49.00 1.3
 1.1s 3.90nm 5.0mb
 WB2 103.59 105 ePdiff05 23.30 10.1X
 1.1s 0.80nm
 S.D. = 1.1 on 121 of 141 obs.

APR 29, 1991 11h 59m 54.83±0.30s
 42.625 N ± 0.3km 43.962 E ± 4.1km
 DEPTH = 10.0km (geophysicist)
 4.5mb (23 obs.)

WESTERN CAUCASUS (362)

TAB 4.90 158 eP 01 12.00 1.6
 e 01 21.00
 KVT 6.11 258 ePn 00 54.10 -33.3X
 OBN 13.38 341 eP 03 07.00 -0.1
 VAY 15.96 273 eP 03 42.00 1.0
 SKO 16.67 275 eP 03 49.00 -1.0
 OHR 17.31 273 eP 03 59.50 1.4
 SPC 17.72 300 eP 04 02.40 -0.9
 ZST 19.61 296 eP 04 16.70 -9.4X
 HVAR 20.13 281 iP 04 29.70 -2.0
 ZAG 20.26 289 eP 04 40.00 7.0X
 KSP 20.57 303 eP 04 37.00 0.8
 VBY 20.78 288 e(P) 04 38.60 0.2
 NUR 21.41 333 iP 04 36.00 -8.6X
 0.8s 99.80nm 5.3mb
 PRU 21.52 300 eP 04 42.20 -3.6X
 VOY 21.71 289 e(P) 04 48.10 0.1
 DUI 21.85 278 P 04 53.60 4.2X
 KHC 22.03 298 eP 04 56.50 5.5X
 BRG 22.04 302 eP 04 56.10 5.1X
 1.2s 17.00nm 4.4mb
 ATN 22.11 268 P 05 04.50 12.6X
 KAF 22.15 338 eP 04 52.10 0.0
 0.8s 35.80nm 4.9mb
 QUE 22.20 116 eP 05 01.70
 SDI 22.31 278 P 04 54.40 1.4
 FVI 22.47 291 P 04 55.20 -0.1
 WET 22.49 298 iPc 05 01.00 5.4X
 CLL 22.70 303 eP 04 59.00 1.4
 1.8s 59.00nm 4.8mb
 CTI 23.28 290 P 05 04.00 0.6
 SFI 23.34 284 P 05 05.60 1.7
 PGD 23.44 284 P 05 07.00 1.9
 MOX 23.47 301 eP 05 09.80 4.7X
 GRF 23.62 299 eP 05 05.00 -1.6
 OGA 23.67 292 iPd 05 08.40 1.1
 FIR 23.79 284 e(P) 04 55.00 -13.2X
 MME 24.13 285 P 05 13.70 1.9
 OSS 24.28 291 ePc 05 13.80 0.5
 VDL 24.76 291 ePc 05 18.00 0.1
 BOB 24.94 287 P 05 20.90 1.4
 LLS 25.06 292 ePc 05 20.10 -0.7
 SLE 25.37 294 ePc 05 23.00 -0.5
 HFS 25.42 324 eP 05 23.70 -0.1

0.7s 26.20nm 5.0mb
 Z 17s 0.57um 4.2Mszx
 e 05 28.00
 e 05 30.20
 MMK 25.83 290 ePc 05 27.10 -1.0
 DIX 26.22 290 ePc 05 30.80 -0.9
 SOD 26.52 345 iP 05 39.20 5.3X
 i 05 50.20
 EMS 26.55 290 ePc 05 33.60 -1.0
 WTS 26.62 304 eP 05 38.50 3.6X
 0.7s 10.00nm 4.6mb
 LPG 26.74 289 eP 05 35.70 -0.8
 0.9s 6.55nm 4.3mb
 LPL 26.75 289 eP 05 35.90 -0.6
 1.0s 12.00nm 4.5mb
 HAU 26.80 295 eP 05 35.90 -0.8
 0.7s 5.50nm 4.4mb
 NB2 26.93 324 P 05 37.70 -0.1
 0.8s 6.80nm 4.4mb
 MEM 27.02 300 Pc 05 40.80 2.2
 ENN 27.08 301 eP 05 39.00 -0.2
 0.8s 6.00nm 4.3mb
 FRF 27.12 285 eP 05 39.10 -0.6
 DOU 27.91 299 P 05 48.50 1.7
 LBF 28.48 293 eP 05 50.80 -1.2
 0.7s 4.40nm 4.4mb
 LOR 28.53 293 eP 05 50.80 -1.6
 SSF 28.79 293 eP 05 53.30 -1.5
 1.1s 9.75nm 4.5mb
 AVF 28.93 292 eP 05 55.10 -0.8
 0.7s 8.25nm 4.6mb
 MAF 29.54 291 eP 06 00.90 -0.6
 1.1s 8.55nm 4.5mb
 TCF 29.78 292 eP 06 03.00 -0.6
 0.9s 4.90nm 4.3mb
 NDI 30.18 107 iPd 06 07.00 -0.3
 LSF 30.25 292 eP 06 06.80 -1.0
 0.6s 5.40nm 4.6mb
 GRR 31.58 296 eP 06 18.40 -1.0
 WMO 31.62 73 P 06 20.30 0.3
 S 11 30.50
 EKA 32.79 309 Pd 06 29.60 -0.3
 0.9s 5.70nm 4.5mb
 GKN 35.90 101 P 06 54.74 -2.4
 DMN 36.46 101 P 07 01.76 -0.3
 KKN 36.48 100 P 07 01.78 -0.4
 PKI 36.70 101 P 07 03.68 -0.5
 GUN 36.85 100 P 07 05.38 -0.1
 GBA 40.86 125 Pd 07 37.10 -1.4
 0.8s 7.90nm 4.5mb
 DAG 42.74 342 eP 07 54.00 0.8
 LZH 45.92 77 eP 08 19.00 -0.5
 1.0s 25.00nm 5.2mb
 PP 08 26.50
 HHC 49.23 68 eP 08 40.80 -4.5X
 XAN 50.55 77 Pc 08 55.10 -0.3
 TIY 51.26 71 eP 09 01.80 1.0
 CHG 51.87 100 eP 09 03.90 -1.7
 GYA 52.96 86 P 09 16.60 2.8
 KIC 56.06 244 P 09 32.90 -3.4X
 LIC 56.35 244 P 09 35.00 -3.4X
 NJ2 58.69 74 eP 09 54.20 -0.6
 SSE 60.87 73 eP 10 09.50 -0.3
 FRB 61.40 332 eP 10 13.00 0.1
 INK 69.38 359 eP 11 07.00 2.9X
 FBA 72.42 5 eP 11 24.80 2.2
 0.9s 4.17nm 4.5mb
 YKA 73.82 350 eP 11 30.30 -0.5
 0.8s 0.70nm 3.8mb
 FFC 78.76 341 eP 12 00.00 1.2
 0.6s 4.00nm 4.6mb
 SES 84.82 344 eP 12 30.00 -0.5
 SXM 88.89 343 eP 12 52.50 1.8
 S.D. = 1.2 on 69 of 87 obs.

APR 29, 1991 12h 17m 50.80±0.54s
 45.677 N ± 5.2km 26.596 E ± 5.1km
 DEPTH = 171.0 ± 6.0 km
 3.4mb (1 obs.)

ROMANIA (358)

VRI 0.21 25 iPc 18 13.20 0.0
 BRD 0.36 117 iP 18 51.00 37.4X
 MLR 0.49 248 iPc 18 15.00 0.7
 ISR 0.54 184 iPc 18 15.20 0.1
 MTUR 1.17 248 iPc 18 19.50 0.1
 CMP 1.17 250 ePc 18 20.00 0.7

CFR 1.20 114 iPc 18 20.00 0.5
 PTT 1.27 353 eP 18 13.50 -6.6X
 TLB 1.49 136 iPd 18 23.50 1.3
 MDB 1.61 288 iPc 18 22.00 -1.5
 COZ 1.62 258 iPc 18 24.50 0.7
 IAS 1.66 23 iPd 18 23.00 -0.9
 DEV 2.59 276 iPd 18 34.00 -0.5
 SRE 2.60 248 iPd 18 35.00 0.3
 JMB 3.21 180 iPd 18 42.00 -0.1
 BZS 3.49 271 ePc 18 44.50 -1.2
 PGB 3.58 210 iP 18 47.00 0.1
 DMK 3.95 167 ePn 18 50.00 -1.5
 KDZ 4.12 192 iPc 18 54.00 0.2
 RZN 4.21 200 iP 18 55.00 -0.2
 MMB 4.59 208 iPc 19 00.00 0.1
 CTT 4.72 163 ePn 19 01.90 0.3
 ISK 4.95 158 eP 19 04.00 -0.6
 VAY 5.25 215 ePn 19 33.40 24.9X
 HRT 5.35 154 eP 19 09.10 -0.8
 BNT 5.41 169 eP 19 11.00 0.3
 YLV 5.50 157 eP 19 11.90 0.0
 VBY 7.96 273 e(P)c 19 45.40 0.9
 YKA 67.80 342 eP 28 32.40 0.8
 0.4s 0.30nm 3.4mb
 S.D. = 0.8 on 26 of 29 obs.

APR 29, 1991 12h 49m 39.45±0.44s
 9.931 N ± 8.0km 83.471 W ± 8.4km
 DEPTH = 10.0km (geophysicist)
 4.5mb (5 obs.)

COSTA RICA (78)
MD 4.7 (SJR). Felt.

UPA 4.00 103 iPd 50 42.00 -0.1
 S 51 23.20
 SDV 12.71 94 eP 52 42.50 -0.8
 eS 54 55.00
 TOV 13.48 89 eP 52 54.90 1.5
 eS 55 15.30
 NNA 22.75 163 eP 54 43.00 -0.2
 ZOBO 30.14 150 P 55 53.00 0.4
 LPB 30.38 150 eP 55 55.00 0.5
 ALO 32.56 323 eP 56 14.00 0.7
 1.0s 1.75nm 3.9mb
 SIV 33.99 139 P 56 24.80 -0.9
 GOL 35.49 330 eP 56 40.00 1.4
 1.0s 5.00nm 4.3mb
 SES 46.32 336 eP 58 08.00 0.7
 SCH 46.69 13 eP 58 10.00 -0.1
 FFC 47.04 345 eP 58 13.00 0.2
 0.6s 5.00nm 4.8mb
 VAO 48.46 133 (P) 58 24.00 -0.5
 EDM 49.42 337 eP 58 31.00 -0.4
 FRB 54.77 8 eP 59 10.00 -1.3
 YKA 57.09 343 eP 59 26.10 -2.0
 0.8s 3.30nm 4.4mb
 INK 66.78 342 eP 00 33.00 0.1
 FBA 70.30 336 iP 00 54.90 0.1
 0.8s 6.90nm 4.8mb
 TIC 77.55 85 P 01 38.10 0.2
 LIC 77.60 86 P 01 38.60 0.4
 KIC 77.86 86 P 01 40.00 0.4
 CLL 86.35 39 e(P) 02 22.80 -0.3
 ASPA 141.84 244 ePKP 09 04.90 -9.2X
 0.7s 2.20nm
 WB2 142.21 250 iPKPc 09 11.00 -3.8X
 1.5s 4.00nm
 WRA 142.22 250 PKP 09 10.00 -4.8X
 1.5s 4.00nm
 NWA0 150.20 217 ePKP 09 33.50 6.0X
 MUN 151.48 217 ePKP 09 36.30 6.9X
 S.D. = 0.8 on 22 of 27 obs.

* APR 29, 1991 13h 12m 41.70±0.85s
 42.602 N ± 15.7km 42.897 E ± 18.2km
 DEPTH = 10.0km (geophysicist)
 3.8mb (4 obs.)

WESTERN CAUCASUS (362)

TAB 5.23 149 e(P) 14 02.00 0.0
 MLR 12.54 289 ePd 15 43.00 0.0
 KSP 19.93 304 eP 17 17.00 0.7
 e 18 04.00
 NUR 21.09 334 eP 17 31.00 2.8X
 KHC 21.35 298 eP 17 10.00 -21.0X
 KAF 21.88 339 eP 17 37.10 0.8
 0.5s 3.00nm 4.0mb

CLL 22.06 304 e(P) 17 38.00 -0.1
 UPP 23.19 327 iP 17 57.70 8.6X
 HFS 24.98 325 eP 18 05.50 -1.0
 0.5s 4.00nm 4.4mb
 Z 16s 0.32um 3.9mszX
 e 18 09.70
 SOD 26.34 346 eP 18 31.00 11.8X
 NB2 26.50 325 P 18 20.30 -0.4
 0.7s 1.20nm 3.7mb
 YKA 73.70 349 eP 24 11.30 -5.7X
 0.8s 0.50nm 3.6mb
 WB2 104.26 104 iPd 26 15.70 -31.8X
 0.4s 4.20nm
 S.D. = 0.8 on 7 of 13 obs.

* APR 29, 1991 13h 25m 17.64±1.02s
 31.253 S ± 9.5km 69.277 W ± 10.8km
 DEPTH = 33.0km (normol)
 SAN JUAN PROVINCE, ARGENTINA (137)

RTBS 0.43 200 ePc 25 27.00 -0.2
 RTCB 0.47 120 ePd 25 28.20 0.3
 eS 25 41.00
 ZON 0.59 120 eP 25 30.30 0.7
 eS 25 41.30
 RTLL 0.70 97 iPd 25 30.10 -1.0
 S 25 44.80
 CFA 0.95 112 iPd 25 31.00 -3.8X
 S 25 48.50
 RTRS 1.09 352 iPc 25 36.80 0.2
 S 25 56.30
 S.D. = 0.9 on 5 of 6 obs.

% APR 29, 1991 13h 25m 49.44±0.89s
 39.110 N ± 8.3km 27.638 E ± 15.1km
 DEPTH = 5.0km (geophysicist)
 TURKEY (366)
 MD 2.6 (ISK).

IZM 0.77 203 ePg 26 04.90 0.0
 eSg 26 15.90
 DST 0.91 57 ePn 26 07.40 0.0
 EDC 1.25 8 ePn 26 13.00 -0.1
 BNT 1.26 10 ePn 26 13.40 0.1
 KCT 1.27 26 ePn 26 13.40 0.0
 S.D. = 0.1 on 5 of 5 obs.

? APR 29, 1991 13h 27m 09.30±3.23s
 41.643 N ± 30.6km 44.044 E ± 28.9km
 DEPTH = 10.0km (geophysicist)
 4.2mb (6 obs.)
 WESTERN CAUCASUS (362)

KVT 6.04 267 ePn 28 41.10 0.2
 OBN 14.33 342 eP 30 34.00 -0.1
 NUR 22.32 334 iP 32 09.50 1.3
 0.8s 19.10nm 4.6mb
 i 32 14.00
 KHC 22.56 300 eP 32 14.50 3.8X
 KAF 23.09 339 iP 32 16.20 0.5
 0.7s 4.80nm 4.1mb
 esP 32 20.10
 CLL 23.30 305 eP 32 18.00 0.1
 1.3s 15.00nm 4.4mb
 HFS 26.25 325 eP 32 44.20 -1.8
 0.6s 7.70nm 4.6mb
 Z 10s 0.05um 3.3mszX
 e 32 46.70
 e 32 51.50
 SOD 27.48 345 eP 32 57.00 -0.2
 NB2 27.77 326 P 32 58.50 -1.4
 0.7s 1.20nm 3.8mb
 YKA 74.80 350 eP 38 51.00 0.0
 0.6s 0.60nm 3.8mb
 S.D. = 1.1 on 9 of 10 obs.

APR 29, 1991 13h 49m 58.38±0.42s
 42.542 N ± 9.1km 43.337 E ± 4.8km
 DEPTH = 10.0km (geophysicist)
 4.6mb (18 obs.)
 WESTERN CAUCASUS (362)

TAB 5.02 152 eP 51 22.00 6.4X
 e 51 31.00
 KVT 5.64 257 ePn 51 23.10 -1.2
 KAS 7.23 264 eP 51 47.00 0.3
 MLR 12.86 289 eP 53 04.00 -0.1

OBN 13.32 343 eP 53 11.00 1.2
 SKO 16.22 275 eP 53 36.00 -11.8X
 SPC 17.36 300 eP 54 01.20 -1.2
 ZST 19.23 296 eP 54 25.80 0.6
 KSP 20.23 304 eP 54 36.50 0.3
 GAR 20.70 91 eP 54 42.00 0.6
 PRU 21.16 301 eP 54 51.00 5.2X
 e 55 04.00
 e 55 14.00
 KHC 21.66 298 P 54 52.70 1.8
 BRG 21.69 303 eP 54 55.30 4.2X
 KAF 22.06 338 eP 54 55.10 0.4
 CLL 22.36 304 eP 54 58.00 0.2
 1.9s 31.00nm 4.4mb
 SFI 22.91 284 P 55 06.10 2.8
 PGD 23.01 284 P 55 04.90 0.4
 GRF 23.25 299 eP 55 07.00 0.4
 UPP 23.42 327 iP 55 09.20 1.2
 MME 23.70 285 P 55 11.00 -0.3
 BOB 24.52 287 P 55 22.20 3.2X
 HFS 25.22 324 eP 55 26.40 1.0
 0.7s 27.50nm 5.1mb
 Z 14s 0.06um 3.2mszX
 eP 55 30.90 16kmX
 LPG 26.33 289 eP 55 36.20 -0.1
 0.8s 8.05nm 4.5mb
 LPL 26.34 289 eP 55 36.10 -0.2
 1.3s 25.25nm 4.7mb
 HAU 26.42 295 eP 55 36.20 -0.6
 1.2s 11.90nm 4.5mb
 SOD 26.48 346 eP 55 35.00 -2.1
 i 55 55.00
 FRF 26.70 285 eP 55 41.80 2.5
 0.8s 10.75nm 4.6mb
 NB2 26.73 325 P 55 39.30 -0.2
 0.7s 4.30nm 4.2mb
 LOR 28.14 293 eP 55 51.10 -1.4
 SMF 28.22 292 eP 55 52.40 -0.7
 1.2s 11.90nm 4.6mb
 SSF 28.40 293 eP 55 53.90 -0.9
 0.7s 2.75nm 4.2mb
 AVF 28.53 292 eP 55 55.40 -0.6
 1.3s 21.65nm 4.8mb
 KEV 28.55 348 eP 55 44.00 -11.9X
 MAF 29.14 291 eP 56 01.40 -0.1
 1.1s 9.75nm 4.5mb
 TCF 29.38 292 eP 56 03.30 -0.3
 0.9s 6.55nm 4.4mb
 LSF 29.85 292 eP 56 07.10 -0.7
 0.8s 8.05nm 4.6mb
 GRR 31.20 296 eP 56 19.00 -0.7
 1.0s 16.00nm 4.9mb
 GKN 36.33 100 P 57 03.28 -1.1
 DMN 36.90 100 P 57 09.88 0.6
 KKN 36.92 100 P 57 09.66 0.2
 0.7s 19.00nm 5.0mb
 PKI 37.14 100 P 57 11.42 0.0
 0.6s 15.00nm 5.0mb
 GUN 37.29 99 P 57 14.06 1.4
 GBA 41.19 124 P 57 49.00 4.3X
 0.7s 2.10nm 4.0mb
 YAK 51.97 37 eP 59 07.80 -1.5
 KIC 55.60 244 P 59 36.20 -0.4
 FRB 61.26 332 eP 00 15.00 -0.5
 YKA 73.82 350 eP 01 33.20 -1.2
 0.6s 1.20nm 4.1mb
 SES 84.77 344 eP 02 34.00 0.2
 S.D. = 1.1 on 41 of 48 obs.

APR 29, 1991 13h 59m 29.45±0.58s
 40.863 N ± 5.1km 22.899 E ± 5.0km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 1.8 (SKO).

THE 0.24 168 iPc 59 34.53 0.0
 eS 59 37.96
 SOH 0.35 97 iPc 59 36.96 0.3
 GRG 0.39 284 ePc 59 37.60 0.2
 eS 59 43.28
 VAY 0.52 332 iPg 59 40.00 0.0
 iSg 59 48.00
 SRS 0.58 64 ePc 59 40.92 -0.3
 eS 59 48.68
 LIT 0.82 202 ePd 59 45.12 -0.3
 eS 59 57.64
 PAIG 1.11 147 ePc 59 50.32 0.1

eS 00 06.04
 S.D. = 0.3 on 7 of 7 obs.
 APR 29, 1991 14h 43m 06.36±0.15s
 42.515 N ± 3.0km 43.937 E ± 1.9km
 DEPTH = 10.0km (geophysicist)
 5.4mb (79 obs.) 5.1msz (9 obs.)
 WESTERN CAUCASUS (362)

TAB 4.80 157 eP 44 23.00 2.4
 i 44 26.40
 KVT 6.07 259 iPn 44 36.10 -2.2
 GAZ 7.43 226 eP 44 56.80 -0.6
 KAS 7.67 265 eP 44 59.00 -1.8
 KER 8.52 162 eP 45 13.00 0.2
 BBTK 8.84 256 eP 45 19.00 1.8
 BHL 10.78 220 P 45 46.00 2.1
 S 48 08.00
 HRT 10.81 266 eP 45 42.00 -2.2
 GBZT 10.98 266 eP 45 47.00 0.5
 YLV 11.09 265 eP 45 46.80 -1.3
 CSS 11.19 231 eP 45 54.50 5.1X
 ISK 11.21 268 eP 45 47.00 -2.5
 ITU 11.23 268 eP 45 52.00 2.1
 HRI 11.27 218 eP 45 57.00 6.5X
 BCK 11.41 248 eP 45 53.00 0.5
 PSN 11.58 281 iP 45 50.00 -4.6X
 CFR 11.71 289 ePc 45 58.00 1.7
 KHL 11.76 254 eP 45 52.00 -5.1X
 DST 11.92 261 eP 45 59.00 -0.3
 KCT 11.92 264 eP 45 59.30 0.0
 DMK 12.03 272 eP 45 57.00 -3.8X
 JARJ 12.06 214 P 46 01.04 -0.2
 BURJ 12.12 215 P 46 02.32 0.3
 ELL 12.25 247 eP 46 09.60 5.8X
 IAS 12.52 298 eP 46 08.00 0.7
 VRI 12.80 291 ePc 46 15.00 3.9X
 ISR 12.83 288 ePd 46 14.00 2.5X
 OTRJ 12.86 212 P 46 11.53 -0.4
 DSI 12.88 215 eP 46 17.50 5.4X
 BUC 13.10 284 iPc 46 32.00 17.0X
 PTT 13.23 295 eP 46 10.00 -6.8X
 MLR 13.29 289 iPd 46 18.00 0.3
 GHZJ 13.38 210 P 46 16.66 -2.3
 OBN 13.48 342 iP 46 17.30 -2.6X

Z 13s 12.00um
 N 13s 10.00um
 E 11s 5.80um
 eS 48 44.00
 MAIO 13.53 112 iPd 46 18.00 -2.8X
 0.8s 32.94nm 5.4mb
 eS 48 46.00
 PVL 13.67 279 iPd 46 18.00 -4.5X
 PRK 13.76 262 eP 46 24.30 0.6
 RDO 13.79 271 eP 46 21.50 -2.7X
 MTUR 13.88 288 eP 46 27.00 1.5
 CMP 13.90 288 ePc 46 21.00 -4.7X
 RZN 14.30 273 eP 46 28.00 -3.0X
 COZ 14.40 288 eP 46 17.00 -15.3X
 MDB 14.46 291 eP 46 34.00 1.1
 PGB 14.58 277 iP 46 33.00 -1.6
 SHI 14.59 149 iPd 46 35.00 0.2
 MBH 14.66 213 eP 46 40.00 4.3X
 SRE 15.17 285 eP 46 50.00 7.7X
 SRS 15.24 272 ePc 46 45.32 2.2
 DEV 15.45 290 ePc 46 48.00 2.2
 PAIG 15.46 267 ePd 46 45.72 -0.3
 KKB 15.47 275 iP 46 46.00 -0.2
 SOH 15.48 271 ePd 46 48.00 1.8
 BADA 15.73 210 ePc 46 41.33 -8.2X
 VAY 15.95 273 eP 46 54.00 1.7
 NPS 15.98 249 eP 46 54.10 1.3
 GRG 16.15 272 ePc 46 58.40 3.5X
 HLW 16.19 223 eP- 46 55.00 -0.4
 eS 50 03.00
 LIT 16.29 269 ePc 46 58.52 1.8
 BZS 16.33 289 eP 46 57.50 0.3
 TIM 16.61 289 iPc 47 05.00 4.3X
 SKO 16.67 276 eP 47 01.20 -0.2
 Z 10s 2.26um
 N 11s 1.98um
 E 11s 2.25um
 i 47 02.70
 iS 50 20.00
 LR 57 00.00
 AGG 16.73 265 iPc 47 04.88 2.6X
 KZN 16.77 270 eP 47 05.40 2.5X

29d 14h

DHR	16.95	161	eP	47	06.50	1.4			1.8s	590.00nm		5.8mb	BNI	26.87	288	P	48	49.60	0.6	
BEO	17.13	286	eP	47	09.00	1.7			Z	15s	2.00um		NB2	27.01	325	P	48	48.80	-1.3	
VLI	17.17	257	eP	47	11.80	4.0X					eS	52	20.00	1.0s	67.90nm			5.3mb		
OHR	17.30	273	iP	47	11.20	1.7	VVI	22.76	290	P	48	06.60	-3.2X	MEM	27.06	301	Pd	48	52.20	1.7
	1.3s	324.00nm			5.3mb		BRN	22.86	306	ePc	48	11.50	0.9	VITF	27.07	295	P	48	48.96	-1.6
PHP	17.45	275	iPd	47	12.70	1.4	RSM	22.92	284	P	48	13.19	1.9	ENN	27.12	301	eP	48	52.00	0.9
LSK	17.68	270	eP	47	16.20	2.0		1.5s	889.00nm			6.1mb			1.2s	35.00nm			4.9mb	
PSZ	17.75	296	iP	47	13.60	-1.4	MNS	23.00	280	P	48	12.90	0.7	FRF	27.13	285	eP	48	50.80	-0.5
SPC	17.76	300	eP	47	12.50	-2.8X	RMP	23.10	279	P	48	13.00	-0.2		1.0s	36.00nm			5.0mb	
RYD	17.89	172	ePd	47	14.90	-2.0	RDp	23.10	279	P	48	14.40	1.2	LRG	27.36	285	eP	48	53.20	-0.1
LACI	18.00	275	eP	47	21.00	2.9X	CTI	23.30	290	P	48	15.20	0.1		Z	20s	18.00um		5.6MsZ	
IGT	18.05	268	ePd	47	18.52	-0.2	CRE	23.32	284	P	48	17.00	1.6	DBN	27.68	304	eP	49	01.00	4.9X
TPE	18.07	271	eP	47	20.50	1.4	SFI	23.35	284	P	48	16.70	1.2		Z	20s	0.80um		4.3MsZ	
TTG	18.19	278	eP	47	21.00	0.5	PGD	23.45	284	P	48	18.60	1.9			eS	54	01.00		
			eS	50	55.50		MOX	23.51	301	eP+	48	18.60	1.6	DOU	27.95	299	P	49	00.30	1.6
VLS	18.30	264	eP	47	22.60	0.7		2.6s	434.00nm			5.6mb				S	53	47.00		
UZD	18.49	291	iP	47	25.40	1.2		Z	12s	2.20um		4.8MsZ	UCC	28.12	301	P	49	03.00	2.9X	
SRO	18.79	295	eP	47	28.50	0.7		N	10s	2.10um			SNF	28.16	300	P	49	02.70	2.2	
RAC	19.26	302	eP	47	34.00	0.4		E	12s	1.70um			RGS	28.31	328	eP	49	01.70	0.0	
			eS	51	21.00					eS	52	35.00		SSB	28.33	289	P	49	01.04	-1.2
ZST	19.64	296	eP	47	37.50	-0.5	FUR	23.53	295	eP	48	19.20	2.0	LBF	28.51	293	eP	49	02.40	-1.4
			i	47	41.60					2.2s	1000.00nm				0.9s	11.45nm			4.7mb	
HVAR	20.14	281	iP	47	41.80	-1.4	GRF	23.65	299	ePc	48	19.50	1.1	LOR	28.56	293	eP	49	02.70	-1.5
VKA	20.17	296	iPc	47	43.20	-0.4		Z	19s	2.00um		4.6MsZ			1.0s	18.00nm			4.8mb	
	3.0s	1343.00nm			5.8mb					eS	52	42.60			Z	21s	16.00um		5.6MsZ	
			i	48	47.30		UPP	23.69	326	iP	48	19.30	0.7	SMF	28.64	292	eP	49	03.80	-1.1
			i	55	08.60					i	48	30.50				1.0s	18.00nm		4.8mb	
GAR	20.26	91	eP	47	45.00	0.3				iS	52	44.00		KEV	28.67	348	iP	49	07.00	2.1
			iS	51	42.00		OGA	23.70	292	iPd	48	20.10	1.0			0.8s	24.90nm		5.1mb	
			iSS	52	44.00		FAI	23.73	267	P	48	20.30	1.1			i				
			i	53	48.00		FIR	23.80	284	eP	48	22.00	2.2	SSF	28.82	293	eP	49	05.30	-1.2
ZAG	20.28	289	iPc	47	44.20	-0.5				iS	52	30.00			1.0s	14.00nm			4.7mb	
PTJ	20.30	289	eP	47	37.40	-7.6X	SAL	24.11	289	P	48	24.40	1.6	PLDF	28.87	291	P	49	06.16	-0.9
KSP	20.62	303	iP	47	47.50	-0.7	MME	24.14	285	P	48	24.50	1.0	AVF	28.95	293	eP	49	06.60	-1.1
	1.1s	144.00nm			5.2mb		BDI	24.23	285	P	48	25.30	1.2		1.0s	34.00nm			5.1mb	
VBY	20.80	288	ePc	47	49.50	-0.6	OSS	24.31	292	ePc	48	25.60	0.6	AGO	29.20	291	P	49	09.16	-0.8
LJU	21.29	290	ePc	47	55.00	-0.1	DHJN	24.78	181	eP	48	32.00	2.1	PYM	29.33	291	P	49	10.20	-1.0
			e	47	58.00		VDL	24.78	291	ePc	48	29.90	0.3	BER	29.38	321	eP	49	12.20	0.8
			eS	51	52.00		BOB	24.95	287	P	48	31.60	0.4	ASK	29.48	321	eP	49	13.00	0.7
CEY	21.37	289	ePc	47	55.90	-0.1	LLS	25.09	292	ePc	48	31.90	-0.7	MAF	29.56	292	eP	49	12.60	-0.7
RIY	21.42	288	eP	47	56.10	-0.2	SLE	25.40	294	ePc	48	34.60	-0.7		1.4s	43.55nm			5.1mb	
NUR	21.50	334	iP	47	56.30	-0.7	ZLA	25.47	294	eP+	48	35.50	-0.5	TCF	29.80	292	eP	49	14.80	-0.6
	0.5s	22.50nm			4.8mb		HFS	25.50	324	eP	48	36.20	0.2		1.3s	28.90nm			4.9mb	
			i	48	01.20			1.0s	191.30nm			5.7mb	SUE	29.88	322	eP	49	16.50	0.7	
			e	52	06.00			Z	18s	6.16um		5.2MsZ	TRO	30.09	343	iPc	49	17.70	0.1	
			e	55	34.00					epP	48	40.40	15kmX	NDI	30.16	106	iPc	49	19.00	0.2
PRU	21.56	300	Pc	47	57.50	-0.2				esP	48	42.70			1.2s	14.06nm			4.7mb	
	2.1s	304.40nm			5.3mb		PCP	25.62	287	P	48	38.39	1.0	LSF	30.27	292	eP	49	18.60	-1.0
	Z	17s	3.60um		4.8MsZ		PGF	25.64	282	eP	48	39.20	1.5	RJF	30.43	290	eP	49	20.90	-0.1
	N	16s	2.80um					1.2s	89.25nm			5.3mb		1.2s	29.75nm			5.0mb		
	E	14s	2.60um				FEL	25.72	294	eP	48	37.16	-1.2	MFF	31.37	293	eP	49	27.90	-1.2
			e	48	00.50		MMK	25.85	290	ePc	48	38.70	-1.1	GRR	31.61	296	eP	49	30.10	-1.2
KMR	21.61	295	iP+	47	58.00	-0.3	FIN	25.91	286	P	48	39.21	-0.9		1.2s	41.65nm			5.2mb	
VOY	21.73	290	eP	47	59.10	-0.6	BBS	26.07	294	P	48	41.13	-0.5	WMO	31.67	72	iPc	49	32.50	0.6
TRI	21.84	289	ePd	47	59.80	-0.8	ROB	26.14	286	P	48	42.08	-0.1		1.0s	100.00nm			5.7mb	
			e(S)	52	08.00		WLS	26.15	296	P	48	40.64	-1.7		N	10s	2.90um			
DUI	21.85	278	P	48	01.68	0.8	CDF	26.20	296	eP	48	41.70	-1.1	EPF	31.74	286	eP	49	30.50	-2.1
	1.6s	379.40nm			5.6mb			1.4s	52.30nm			5.0mb	LPF	31.77	296	eP	49	31.60	-1.1	
KHC	22.07	298	iPc	48	03.30	0.4	DIX	26.24	290	ePc	48	42.60	-0.8		1.4s	61.00nm			5.3mb	
	1.5s	170.00nm			5.3mb		ECH	26.28	295	P	48	42.34	-1.2	BTH	32.11	286	Pc	49	35.00	-0.7
	Z	13s	3.00um		4.9MsZ		MOF	26.31	294	P	48	42.48	-1.4			iP			16kmX	
	E	13s	3.00um				BNS	26.34	301	iPd	48	45.80	1.8	ESY	32.57	311	eP	49	39.00	-0.6
			e	48	07.00			1.8s	190.00nm			5.5mb	EDR	32.62	312	eP	49	39.10	-0.9	
			S	52	10.00		RSP	26.45	288	P	48	42.90	-2.3		1.3s	166.00nm			5.8mb	
BRG	22.08	303	iPc	48	03.40	0.4	ENR	26.47	286	P	48	44.13	-1.2	EBL	32.80	310	eP	49	41.10	-0.5
	1.8s	420.00nm			5.6mb		LSD	26.48	289	P	48	44.64	-1.0		1.0s	119.00nm			5.8mb	
			e	48	07.00		SBF	26.52	285	eP	48	45.50	-0.2	EKA	32.84	309	Pd	49	41.70	-0.2
			eS	52	15.00			1.2s	77.35nm			5.3mb		0.9s	33.40nm			5.3mb		
KMSA	22.08	179	eP	47	46.67	-16.6X	STV	26.53	286	P	48	44.64	-1.3	EDI	32.89	311	eP	49	41.60	-0.7
QUE	22.17	116	eP	48	05.60	1.4	BSF	26.54	294	eP	48	44.70	-1.3		1.1s	171.00nm			5.9mb	
	1.5s	2222.22nm			6.4mb	X	LOMF	26.54	293	P	48	44.12	-1.8	ELO	33.22	312	eP	49	44.40	-0.9
			eS	52	23.80		EMS	26.57	290	ePc	48	45.50	-0.9		1.3s	166.00nm			5.8mb	
KAF	22.25	338	eP	48	04.30	-0.2	SOD	26.62	345	iP	48	47.10	0.7	AAE	33.66	189	eP	49	50.00	0.2
	1.1s	470.20nm			5.9mb					i	49	05.20		POO	34.84	124	eP	49	57.00	-2.6X
			esP	48	13.70		PZZ	26.65	287	P	48	45.26	-1.8	EVIA	35.14	280	eP	50	02.00	-0.2
RFI	22.28	277	P	48	06.00	1.0	WTS	26.66	304	eP	48	48.50	1.6	GUD	35.64	284	eP	50	07.90	1.5
	1.7s	2879.80nm			6.5mb	X		1.3s	209.00nm			5.7mb	TOL	35.83	282	eP	50	06.50	-1.3	
SDI	22.31	278	P	48	05.63	0.2	LPG	26.76	289	eP	48	47.70	-0.5			ePP	51	30.00		
	1.7s	511.00nm			5.7mb			1.2s	71.40nm			5.2mb			eS	55	48.00			
BHG	22.44	294	eP	48	07.20	0.6	LPL	26.77	289	eP	48	47.60	-0.6	GKN	35.89	100	P	50	08.70	0.0
AQU	22.48	280	P	48	12.60	5.5X		1.2s	53.55nm			5.1mb	EBAN	36.26	280	eP	50	10.00	-1.5	
FVI	22.49	291</																		

GUN	36.85	99	P	50	16.96	0.0	Z	12s	1.80um	5.4MszX	CENTRAL ALASKA (1)						
EPLA	37.23	284	eP	50	19.00	-0.6	N	12s	0.90um		<AEIC>. ML 2.8 (AEIC).						
EHOR	37.45	280	eP	50	20.00	-1.5	E	12s	1.00um								
EJIF	38.17	278	eP	50	25.00	-2.5X			ePP	52	57.00	SCM	0.52	153	iPd	46 28.12 -0.9	
KBS	38.57	351	eP	50	31.80	1.4			eS	00	53.00				eS	46 37.34	
HYB	38.63	120	eP	50	31.50	-0.1	PTZ	57.66	194	iP	52	57.00	SML	0.54	207	iPd	46 28.71 -0.6
	1.0s	100.00nm			5.5mb		NJ2	58.74	74	Pc	53	05.50			eS	46 38.19	
EVAL	38.64	280	eP	50	30.50	-1.0		1.0s	60.00nm	5.7mb	GHO	0.74	225	iPd	46 31.07 -0.9		
IFR	39.22	273	eP	50	38.00	1.4	Z	16s	0.60um	4.8MszX				eS	46 42.90		
LSA	39.75	93	P	50	42.40	1.1	N	13s	0.70um		TOA	0.79	103	iPc	46 32.11 -0.6		
GBA	40.81	125	Pd	50	49.60	0.0	E	14s	0.80um		KNK	0.93	199	iPd	46 33.91 -0.6		
	0.9s	44.10nm			5.2mb				S	01	15.00			eS	46 47.30		
AKU	40.85	326	iP	50	52.30	2.9X	MDJ	59.25	56	eP	53	08.00	PLRM	0.94	222	iPd	46 33.50 -1.1
	1.1s	50.63nm			5.2mb			5.0s	480.00nm	5.9mb X				eS	46 47.00		
GTA	41.66	75	Pc	50	57.80	1.2	Z	12s	1.36um	5.3MszX	SDG	1.08	76	iPc	46 35.65 -1.0		
	1.2s	90.00nm			5.4mb		N	12s	1.04um					eS	46 49.70		
E	10s	1.20um					E	12s	1.31um		HUR	1.09	310	iPc	46 35.74 -0.9		
		PP	52	37.00					eS	01	24.00			eS	46 50.37		
TIO	42.06	271	iP	50	58.50	-1.4	OIZ	59.75	91	eP	53	12.80	CUT	1.15	277	iPc	46 36.86 -0.7
		i	51	04.20			SNG	60.88	108	eP	53	21.20	TZL	1.15	101	iPc	46 37.07 -0.5
DAG	42.84	342	iPd	51	05.30	-0.3	SSE	60.92	73	Pc	53	21.70	PWA	1.17	237	eP	46 37.65 -0.1
	0.5s	35.21nm			5.3mb			1.2s	27.00nm	5.3mb	KLU	1.20	131	iPc	46 37.09 -1.3		
KOD	43.49	128	eP	51	17.00	5.1X	Z	20s	0.90um	4.9Msz				eS	46 53.36		
LZH	45.96	77	eP	51	32.00	0.6			ePP	55	31.50	RND	1.22	337	iPc	46 37.68 -0.9	
	1.5s	230.00nm			5.9mb				S	01	44.00	PAX	1.28	57	ePd	46 38.52 -1.0	
Z	16s	4.00um			5.5MszX		FRB	61.49	332	ePc	53	24.40	PMS	1.34	219	ePd	46 39.92 -0.3
N	10s	2.00um					IPM	63.01	110	ePd	53	36.00	VLZ	1.36	148	ePc	46 38.59 -1.9
		PP	51	42.50				1.2s	66.60nm	5.7mb			VZW	1.38	153	ePc	46 39.10 -1.7
		SP	51	45.00			BUL	63.93	196	iPd	53	40.40	GLI	1.46	166	ePd	46 40.67 -1.2
		eS	58	20.00				0.9s	8.40nm	4.9mb			THY	1.47	39	eP	46 42.05 -0.1
BTO	48.34	69	P	51	51.00	1.0	BRW	65.53	7	eP	53	52.40	MCK	1.53	341	iPc	46 42.47 -0.5
	N	16s			2.10um		SCH	66.57	324	eP	53	57.00	SUA	1.62	240	eP	46 44.30 0.1
	E	16s			1.70um		MAT	69.22	59	eP	54	15.00			eS	47 06.12	
		eSP	52	02.00			BAG	69.33	86	eP	54	16.30	TRF	1.62	317	ePc	46 43.23 -1.2
		eS	58	57.00			WIN	69.33	206	iPc	54	14.50	DDM	1.75	30	ePd	46 46.79 0.8
CD2	48.42	83	P	51	50.60	-0.1		1.5s	125.00nm	5.9mb					eS	47 09.41	
	1.0s	60.00nm			5.6mb		SLR	69.43	195	iPc	54	14.50	SKT	1.77	261	iPc	46 45.86 -0.5
HHC	49.29	68	P	51	58.00	0.7		1.2s	46.88nm	5.5mb					eS	47 07.70	
XAN	50.60	77	iPc	52	07.70	0.4	INK	69.49	359	eP	54	15.00	KNIM	1.95	179	eP	46 46.82 -2.1
	1.0s	100.00nm			5.7mb		IMA	70.90	8	P	54	24.70	HIN	2.00	161	ePd	46 48.20 -1.5
	N	12s			1.00um			1.2s	31.25nm	5.3mb			CVA	2.01	149	ePc	46 48.52 -1.2
	E	14s			1.00um		FBA	72.53	5	P	54	35.00	BWN	2.03	339	iPc	46 48.89 -1.1
KMI	50.84	90	Pc	52	09.00	-0.5		1.0s	32.50nm	5.4mb			GLB	2.08	112	ePc	46 49.21 -1.6
	2.0s	230.00nm			5.8mb		CBM	72.54	318	eP	54	34.50			eS	47 14.68	
TIY	51.31	71	iPc	52	13.00	0.3	YKA	73.93	350	eP	54	42.20	SLKM	2.13	214	eP	46 51.20 -0.3
	Z	21s			1.50um	5.0Msz		1.0s	13.30nm	4.9mb			HDA	2.16	10	ePd	46 51.29 -0.5
	N	17s			1.30um		POF	74.88	202	iPd	54	49.00	DOT	2.19	50	ePc	46 51.04 -1.2
YAK	51.73	37	eP	52	13.90	-1.6		1.5s	69.44nm	5.5mb			WRH	2.19	357	ePd	46 51.01 -1.3
		ePcP	53	29.00			TOA	75.41	5	P	54	51.80	SGAM	2.19	144	ePc	46 50.06 -2.2
		ePP	54	22.00			SVW	75.51	10	eP	54	51.00	NCG	2.24	248	eP	46 52.44 -0.7
		ePPP	55	10.00			PMR	75.71	6	P	54	53.00	SPU	2.30	243	eP	46 53.39 -0.5
		eScP	57	17.00				1.0s	21.25nm	5.2mb			CRP	2.30	245	eP	46 53.80 -0.2
		ePcS	57	25.00			KLU	76.04	5	P	54	55.20	MTU	2.31	178	eP	46 53.25 -0.8
		eS	59	38.00			PDB	76.97	9	P	55	00.00	SEW	2.33	201	eP	46 53.63 -0.6
CHG	51.87	99	ePc	52	16.10	-1.0	FFC	78.86	341	ePc	55	10.00	NEA	2.36	347	ePd	46 53.09 -1.6
	0.9s	47.69nm			5.4mb			1.4s	53.00nm	5.4mb			CCB	2.36	0	ePc	46 53.22 -1.5
BJI	52.80	67	eP	52	24.00	0.2	EDM	82.65	346	eP	55	32.00	BGL	2.41	247	eP	46 53.27 -2.1
	1.0s	50.00nm			5.4mb		SES	84.92	344	ePc	55	42.50	CKL	2.41	245	eP	46 54.84 -0.7
BDT	52.92	101	eP	52	24.50	-0.4		1.3s	71.00nm	5.7mb			RAGM	2.44	140	eP	46 53.89 -1.9
	1.0s	96.60nm			5.7mb		PNT	87.42	349	eP	55	55.00	RDS	2.55	357	ePd	46 55.91 -1.5
GYA	52.98	86	P	52	25.40	-0.1	SXM	88.99	343	eP	56	03.50			eS	47 25.17	
		PcP	53	36.00			FVM	89.76	326	eP	56	06.10	HMT	2.61	137	eP	46 56.42 -1.9
		S	59	56.00				1.1s	9.76nm	5.0mb			FBA	2.62	0	ePc	46 56.91 -1.5
KHT	54.23	103	eP	52	30.00	-4.6X	GOL	93.56	337	iP	56	24.00	MDM	2.68	356	ePc	46 57.72 -1.7
NST	54.76	101	eP	52	39.00	0.5		1.1s	19.87nm	5.4mb			GLM	2.71	4	eP	46 58.13 -1.7
TIA	55.32	70	eP	52	42.80	0.4	DAU	94.45	341	P	56	29.00	CROM	2.72	122	eP	46 58.41 -1.7
	Z	24s			1.00um	4.8MszX	PV09	95.73	339	iP	56	34.80	RDT	2.80	234	ePc	46 59.35 -1.7
	N	15s			1.00um		MSU	96.48	341	P	56	38.50	TGL	2.84	121	eP	46 59.49 -2.2
TIC	55.97	245	P	52	43.98	-3.3X	ANMO	98.29	336	P	56	45.70	DFR	2.89	236	eP	47 01.06 -1.4
KIC	55.99	244	P	52	44.26	-3.1X		1.2s	22.46nm	5.7mb			BALM	2.90	113	ePc	46 59.84 -2.7
LIC	56.28	244	P	52	46.48	-3.0X	ALO	98.29	336	eP	56	45.00	RDN	2.97	235	eP	47 02.54 -1.0
WHN	56.34	78	Pd	52	50.50	0.8		1.4s	8.72nm	5.2mb			NCT	3.01	237	eP	47 01.38 -2.6
	0.7s	30.00nm			5.4mb		Z	20s</									

29d 15h

OBN 13.47 343 eP 32 13.00 13.8X
 HITJ 14.04 208 P 31 57.80 -9.2X
 SPC 17.50 301 eP 32 51.80 0.3
 ZST 19.36 296 eP 33 13.10 -1.1
 e 48 50.30
 KSP 20.38 304 eP 33 26.50 1.4
 NUR 21.44 334 eP 33 42.00 6.2X
 KHC 21.80 298 eP 33 44.00 4.4X
 KAF 22.22 338 eP 33 44.60 1.0
 0.5s 1.70nm 3.8mb
 esP 33 49.10

CLL 22.51 304 eP 33 48.00 1.4
 HFS 25.38 325 eP 34 13.00 -1.3
 0.8s 13.80nm 4.7mb
 Z 17s 0.14um 3.5mszX
 e 34 17.20
 LR 42 00.00

SOD 26.63 346 eP 34 23.00 -2.9X
 NB2 26.89 325 P 34 29.00 0.6
 0.8s 2.90nm 4.0mb
 GKN 36.23 100 P 35 50.06 -0.8
 DMN 36.79 100 P 35 56.44 0.7
 KKN 36.82 100 P 35 55.38 -0.5
 PKI 37.04 100 P 35 57.46 -0.4
 GUN 37.19 99 P 35 59.04 -0.2
 YKA 73.97 350 eP 40 20.10 -2.5X
 0.8s 1.60nm 4.1mb
 FFC 78.84 340 eP 40 49.00 -1.1
 0.8s 8.00nm 4.8mb

SES 84.93 344 eP 41 22.00 0.0
 ASPA 105.88 108 ePKP 46 47.70 -23.7X
 0.9s 10.90nm
 S.D. = 1.0 on 16 of 24 obs.

APR 29, 1991 15h 36m 26.81 ± 0.55s
 44.427 N ± 11.0km 152.323 E ± 7.8km
 DEPTH = 33.0km (normal)
 4.8mb (21 obs.)

KURIL ISLANDS REGION (222)

KUSJ 5.67 259 P 37 48.50 -2.4
 S 38 49.10
 HOOJ 6.89 256 eP 38 08.40 0.3
 eS 39 22.90
 ASAJ 6.96 271 P 38 09.80 0.8
 MRRJ 8.43 260 eP 38 29.70 0.2
 eS 39 58.80
 OFUJ 9.58 240 P 38 43.30 -2.2
 S 40 23.80
 AOMJ 9.63 250 P 38 45.00 -1.2
 S 40 27.50
 YAMJ 11.15 240 P 39 05.60 -1.3
 eS 41 03.60
 MAT 13.31 239 eP 39 34.00 -1.8
 0.6s 25.33nm 5.4mb
 MDJ 16.21 279 eP 40 11.00 -2.5
 CN2 19.28 278 P 40 49.00 -2.5
 1.0s 20.00nm 4.3mb
 Z 15s 1.20um 4.1msz
 N 13s 0.30um
 E 13s 0.30um

ePP 40 55.00
 SNY 21.10 273 Pd 41 11.40 0.8
 YAK 22.01 331 eP 41 16.20 -3.4X
 ePP 41 37.00
 ePP 41 52.00
 eS 45 09.00

BJI 26.98 273 eP 42 09.50 2.3
 1.2s 10.00nm 4.3mb
 SSE 27.80 252 eP 42 16.50 1.8
 HHC 29.88 278 P 42 35.40 1.0
 TIY 30.58 271 Pc 42 41.00 1.3
 LZM 37.46 274 eP 43 39.00 0.0
 1.8s 32.00nm 4.9mb

GTA 38.84 281 Pd 43 51.60 1.1
 1.2s 20.00nm 4.8mb
 CD2 40.17 267 P 44 02.60 1.1
 GYA 40.71 259 P 44 07.60 1.6
 INK 43.92 31 eP 44 32.00 0.4
 WMO 45.29 293 P 44 44.00 1.0
 eS 51 17.50

CHG 51.06 258 eP 45 29.70 1.6
 YKA 53.13 35 eP 45 41.70 -1.3
 0.8s 4.10nm 4.5mb
 GUN 54.67 276 P 45 55.80 0.5
 0.9s 54.00nm 5.6mb
 KKN 55.17 276 P 45 59.04 0.3

0.8s 44.00nm 5.5mb
 PKI 55.21 276 P 45 59.44 0.2
 DMN 55.40 276 P 46 01.04 0.5
 GKN 55.50 277 P 46 01.40 0.3
 0.9s 63.00nm 5.6mb

PNT 57.09 51 eP 46 11.00 -1.0
 GAR 59.01 296 eP 46 25.00 -0.7
 KEV 59.35 341 eP 46 27.00 -0.5
 SES 61.12 47 eP 46 39.00 -0.9
 SOD 61.22 339 eP 46 51.00 10.7X
 FFC 62.89 39 eP 46 51.00 -0.6

0.7s 10.00nm 5.1mb
 LRM 63.06 51 eP 46 53.40 0.2
 KAF 65.32 335 iP 47 04.50 -2.8
 0.8s 4.80nm 4.6mb

esP 47 06.40
 WB2 66.13 199 iPd 47 14.80 1.9
 0.6s 4.00nm 4.7mb

WRA 66.13 199 P 47 14.00 1.1
 0.6s 4.40nm 4.7mb

FRB 67.43 18 eP 47 19.00 -1.7
 NB2 70.25 341 P 47 37.00 -1.2
 0.7s 3.60nm 4.5mb

HFS 70.44 339 eP 47 37.70 -1.6
 0.5s 6.10nm 4.9mb
 Z 14s 0.10um 4.2mszX

ALO 73.55 57 eP 47 49.50 0.0
 0.9s 3.15nm 4.3mb

STK 76.57 189 eP 48 13.70 -1.6
 0.9s 1.10nm 3.9mb

CLL 78.35 335 iPc 48 25.10 0.1
 BRG 78.44 335 eP 48 27.80 2.3
 MLR 78.64 325 eP 48 30.00 3.1X

PRU 79.03 334 P 48 29.40 0.7
 MOX 79.34 336 e(P) 48 31.00 0.5
 KHC 80.09 334 iP 48 35.50 1.0

LOR 84.55 339 eP 48 56.50 -1.1
 SSF 84.84 339 eP 48 58.60 -0.4
 AVF 85.13 339 eP 49 01.40 0.9

1.1s 14.65nm 5.1mb
 LPL 85.39 337 eP 49 03.50 1.4
 1.0s 4.00nm 4.6mb

LPG 85.40 336 eP 49 03.70 1.4
 1.0s 4.00nm 4.6mb

MAF 85.85 339 eP 49 04.70 0.5
 1.0s 8.00nm 4.9mb

S.D. = 1.4 on 53 of 56 obs.

APR 29, 1991 16h 02m 31.71 ± 0.61s
 66.111 N ± 5.0km 142.055 W ± 4.9km
 DEPTH = 10.0km (geophysicist)

ALASKA (676)
 ML 3.5 (AEIC).

FYU 1.36 291 eP 02 57.88 1.2
 S 03 17.01

GLM 2.49 245 eP 03 12.88 -0.1
 eS 03 45.53

DOT 2.62 200 eP 03 14.13 -0.6
 eS 03 47.38

HDA 2.68 233 eP 03 15.18 -0.5
 FBA 2.68 246 eP 03 15.44 -0.2

MDM 2.82 249 eP 03 16.99 -0.6
 S 03 55.26

CCB 2.82 241 eP 03 17.42 -0.2
 TMW 2.83 189 eP 03 18.63 0.9

S 03 54.45
 DDM 2.84 217 eP 03 18.71 0.7
 eS 03 55.96

RDS 2.85 246 eP 03 17.59 -0.5
 S 03 56.14

WRH 3.02 240 eP 03 20.04 -0.4
 NEA 3.32 246 eP 03 24.30 -0.4

PAX 3.48 207 eP 03 27.29 0.2
 BWN 3.69 242 eP 03 29.61 -0.3

MCK 3.78 234 eP 03 29.93 -1.3
 SDG 3.91 204 eP 03 33.13 0.1

RND 3.98 230 eP 03 33.10 -1.0
 INK 3.99 53 P 03 34.00 -0.1

0.3s 14.90nm
 TOA 4.41 206 eP 03 41.18 1.0
 IMA 4.73 275 eP 03 44.62 -0.3

SML 5.13 216 eP 03 50.65 0.3
 CUT 5.16 228 eP 03 51.67 0.9
 CTGM 5.18 176 eP 03 50.42 -0.8
 GHO 5.30 218 eP 03 53.74 0.8
 PWA 5.65 221 eP 03 59.18 1.5
 SKT 5.87 229 eP 04 00.46 -0.3
 NCG 6.51 228 eP 04 10.45 0.6
 SPU 6.65 227 eP 04 12.77 0.9

S.D. = 0.7 on 32 of 32 obs.

? APR 29, 1991 16h 27m 26.74 ± 10.65s
 37.660 N ± 88.8km 22.116 E ± 18.8km
 DEPTH = 10.0km (geophysicist)

SOUTHERN GREECE (368)

AGG 1.37 7 eP 27 52.60 0.7
 eS 28 06.00

IGT 2.33 324 eP 28 05.90 0.1
 LIT 2.45 7 eP 28 06.80 -0.7
 eS 28 32.10

PAIG 2.57 28 eP 28 09.20 0.1
 eS 28 35.90

FNA 3.17 350 eP 28 17.40 -0.3
 eS 28 49.20

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

* APR 29, 1991 16h 48m 42.99 ± 0.50s
 43.057 N ± 10.5km 44.399 E ± 9.1km
 DEPTH = 10.0km (geophysicist)

4.3mb (6 obs.)
 WESTERN CAUCASUS (362)

TAB 5.20 163 eP 50 02.00 -0.8
 i 50 09.00

KVT 6.52 255 ePn 50 10.20 -11.2X
 OBN 13.08 340 eP 51 58.00 6.7X

DEV 15.60 288 ePc 52 30.00 5.6X
 SKO 16.96 274 eP 52 35.00 -6.8X

BEO 17.32 284 eP 52 47.00 0.7
 OHR 17.62 272 eP 52 46.00 -4.1X

SPC 17.79 299 eP 52 47.20 -5.1X
 e 01 50.20

e 14 34.80
 ZST 19.72 295 eP 53 15.40 0.0
 e 54 30.80

e 02 04.20
 e 14 57.00

KSP 20.61 302 eP 53 23.50 -1.3
 VBY 20.96 287 eP 53 21.00 -7.4X

e 54 44.00
 NUR 21.17 332 eP 53 29.90 -0.5

PRU 21.58 299 eP 53 35.00 0.4
 e 54 47.50

KAF 21.88 337 eP 53 35.70 -1.8
 0.8s 9.30nm 4.3mb

esP 53 45.30
 BRG 22.08 301 eP 53 41.00 1.4
 e 54 55.00

QUE 22.11 118 eP 53 40.90 0.6
 KHC 22.12 297 P 53 42.50 2.4X

KBA 22.22 291 e(P) 53 29.00 -12.3X
 CLL 22.74 302 iPd 53 48.70 2.6X

1.7s 29.00nm 4.5mb
 e 55 03.00

UPP 23.43 325 iP 54 02.00 9.3X
 SFI 23.55 283 P 53 54.10 0.0

eSn 55 06.10
 PGD 23.65 283 P 53 55.80 0.5
 eSn 55 09.20

MME 24.33 284 P 54 01.90 0.0
 eSn 55 17.10

HFS 25.26 323 eP 54 09.70 -0.8
 0.9s 10.70nm 4.5mb

Z 13s 0.06um 3.3mszX
 e 54 15.20

SOD 26.19 344 eP 54 23.00 4.0X
 NB2 26.77 324 P 54 23.80 -0.7
 0.8s 3.30nm 4.1mb

KEV 28.21 347 eP 54 54.00 16.6X
 GBA 40.85 126 Pc 56 25.50 -1.0
 0.6s 3.40nm 4.2mb

CHG 51.63 100 eP 57 52.50 0.6
 FRB 61.17 332 eP 58 59.00 -0.5
 INK 68.95 359 ePc 59 50.10 0.4

YKA 73.46 350 eP 00 19.60 2.8
 0.9s 0.80nm 3.8mb
 S.D. = 1.1 on 19 of 32 obs.

* APR 29, 1991 16h 49m 57.85±1.13s
42.854 N ±17.4km 44.062 E ±12.2km
DEPTH = 10.0km (geophysicist)
4.5mb (7 obs.)
WESTERN CAUCASUS (362)

OBN	13.19	341 eP	53	07.00	-0.6
SKO	16.73	275 eP	53	55.50	1.8
SRO	18.73	294 eP	54	18.40	-0.1
		e	54	25.70	
NUR	21.24	333 iP	54	47.40	1.5
	0.8s	16.10nm			4.5mb
		i	54	55.00	
KAF	21.97	337 eP	54	58.40	5.2X
KBA	22.06	292 e(P)	54	53.00	-1.6
	1.2s	27.10nm			4.6mb
MOX	23.41	301 e(P)	55	11.00	3.4X
		e	55	25.00	
UPP	23.46	326 iP	55	13.40	5.5X
HFS	25.28	324 eP	55	26.90	1.4
	1.1s	28.50nm			4.9mb
Z	15s	0.03um			3.0MsZ
		e	55	53.20	
LPL	26.75	289 eP	55	39.80	0.3
	1.1s	9.75nm			4.4mb
NB2	26.79	324 P	55	38.40	-1.1
	1.0s	4.00nm			4.1mb
AVF	28.91	292 eP	55	57.80	-1.0
	1.0s	8.00nm			4.5mb
MAF	29.53	291 eP	56	03.50	-0.9
	1.1s	9.75nm			4.5mb
GKN	35.87	101 P	57	00.00	0.1
FRB	61.23	332 eP	00	15.00	0.2
INK	69.15	359 eP	01	26.00	20.2X
STK	115.99	110 ePKP	09	15.00	32.6X
	0.5s	2.90nm			

S.D. = 1.2 on 12 of 17 obs.

APR 29, 1991 16h 51m 27.49±0.52s
43.541 N ±4.6km 132.278 E ±5.6km
DEPTH = 495.3 ±5.8 km
4.7mb (48 obs.)
NEAR E. COAST OF EASTERN USSR (661)

MDJ	2.21	300 iPc	52	33.80	0.0
	0.6s	60.00nm			
CN2	4.96	275 iPd	52	55.00	0.4
	1.0s	400.00nm			
		eS	54	04.50	
SNY	6.64	258 iPd	53	11.80	1.0
	1.0s	100.00nm			4.9mb
MAT	8.34	145 eP	53	26.00	-2.5
	0.9s	31.93nm			4.6mb
		eS	55	03.00	
DL2	9.26	244 eP	53	39.30	1.1
		iS	55	26.00	
BJ1	12.52	259 eP	54	12.50	0.0
	1.0s	90.00nm			5.2mb
SSE	15.22	219 Pc	54	40.50	0.3
	0.7s	56.00nm			5.3mb
		eS	57	16.00	
HHC	15.58	267 Pd	54	44.40	0.4
NJ2	15.60	227 Pc	54	44.00	-0.1
	1.0s	100.00nm			5.4mb
TIY	16.14	256 eP	54	50.50	1.0
BTO	16.78	268 P	54	57.00	1.1
YAK	18.57	356 eP	55	11.00	-1.9
		ePPP	56	40.00	
		iS	58	15.00	
		eScS	05	43.00	
WHN	19.26	234 Pc	55	20.80	0.9
	0.7s	30.00nm			5.0mb
XAN	20.47	250 Pd	55	31.00	-0.4
QZH	21.68	216 eP	55	41.90	-0.6
LZH	23.00	261 Pd	55	52.50	-2.2
	1.8s	64.00nm			4.9mb
GTA	24.58	272 iPd	56	09.30	0.4
	1.0s	30.00nm			4.8mb
CD2	25.84	250 P	56	19.80	-0.3
GYA	26.87	239 P	56	28.40	-0.9
WMO	31.95	286 P	57	13.00	0.7
ANM	40.11	36 eP	58	25.00	5.0X
GUN	40.23	263 P	58	21.96	0.1
	0.5s	62.00nm			5.4mb
KKN	40.73	263 P	58	25.84	0.0
	0.5s	75.00nm			5.4mb

PKI	40.77	263 P	58	26.10	-0.1
	0.6s	41.00nm			5.1mb
DMN	40.96	263 P	58	27.64	-0.1
	0.5s	32.00nm			5.1mb
GKN	41.08	264 P	58	28.36	-0.1
	0.6s	63.00nm			5.3mb
SVW	44.88	41 eP	58	59.60	1.7
IMA	44.91	34 iPc	58	59.20	1.0
	0.7s	11.60nm			4.5mb
NDI	46.08	270 iPd	59	07.50	0.0
	0.6s	60.00nm			5.3mb
FBA	47.54	35 ePc	59	19.40	1.2
TOA	49.00	38 eP	59	30.50	1.1
QUE	52.68	278 eP	59	56.60	-0.3
	0.8s	563.43nm			5.9mb X
KEV	54.77	336 iP	00	10.60	-0.4
	0.5s	16.80nm			4.6mb
GBA	55.42	255 Pd	00	15.20	-1.0
	0.6s	13.90nm			4.5mb
SOD	56.15	333 iP	00	20.20	-0.5
KOD	57.75	252 eP	00	32.00	-0.6
OBN	58.64	318 eP	00	37.00	-0.9
KAF	59.22	328 iP	00	40.60	-1.1
	0.5s	27.20nm			4.9mb
		eSP	00	41.10	
NUR	60.82	327 iP	00	51.30	-1.0
	0.6s	28.70nm			4.9mb
YKA	61.61	29 eP	00	56.50	-0.9
	0.4s	1.50nm			3.8mb
UPP	63.93	329 iP	01	11.20	-1.1
OIS	64.13	172 iPc	01	13.00	-1.0
	0.3s	10.00nm			4.9mb
HFS	65.16	331 eP	01	18.50	-1.6
	0.6s	18.40nm			4.9mb
Z	14s	0.12um			4.2MsZ
		e	01	21.20	
		e	01	24.90	
		e	01	46.50	
NB2	65.35	333 P	01	20.60	-0.8
	0.7s	14.60nm			4.7mb
MBL	65.39	193 iPd	01	21.60	-0.3
ASPA	66.89	178 iPc	01	31.00	-0.2
	1.0s	29.70nm			4.9mb
VRI	69.22	314 iPd	01	48.00	2.8
WARB	69.57	185 iPc	01	48.00	0.6
ISR	69.80	313 ePd	01	52.00	3.3X
MLR	69.88	314 iPc	01	51.00	1.7
QLP	70.64	169 iPc	01	53.90	0.3
KSP	70.80	323 iPd	01	54.50	0.1
COZ	70.82	315 ePc	01	58.00	3.1X
FFC	71.78	30 eP	02	04.00	4.0X
	0.8s	7.00nm			4.3mb
BRG	71.80	324 iP	02	00.50	0.3
	0.8s	13.00nm			4.5mb
		e	03	50.00	
CLL	71.87	325 i(P)	02	00.50	-0.1
	1.0s	19.00nm			4.6mb
		e	04	12.00	
SRO	72.06	320 eP	02	02.30	0.5
PRU	72.19	323 Pd	02	03.00	0.5
MOX	72.95	325 eP	02	06.00	-0.9
BRS	73.05	161 iPc	02	09.00	1.4
KHC	73.25	323 iPd	02	09.40	0.7
GRF	73.84	325 iPd	02	13.20	1.3
	0.9s	41.00nm			5.0mb
FORR	74.13	184 iPd	02	13.70	0.2
KBA	74.89	322 eP	02	16.50	-1.6
	0.8s	17.30nm			4.6mb
		ic	02	17.00	
ABH	75.20	327 eP	02	19.86	0.3
STK	75.54	172 iPc	02	22.40	1.0
	0.4s	17.40nm			4.9mb
OHR	75.62	313 eP	02	22.30	0.3
CDF	76.47	326 eP	02	26.70	0.1
	0.8s	5.35nm			4.1mb
BSF	77.13	326 eP	02	30.00	-0.2
LOR	78.76	327 eP	02	38.70	-0.1
	0.6s	15.35nm			4.6mb
Z	20s	0.08um			4.0MsZ
LSD	78.86	324 P	02	40.45	0.7
LBF	78.95	327 eP	02	39.70	-0.2
	0.6s	7.20nm			4.3mb
PCP	78.99	323 P	02	39.74	-0.4
LPL	79.00	324 eP	02	40.80	0.4
	0.6s	9.90nm			4.4mb
LPG	79.00	324 eP	02	41.00	0.5
	0.6s	15.35nm			4.6mb

RSP	79.06	324 P	02	40.25	-0.4
SSF	79.07	327 eP	02	40.40	0.0
	0.6s	8.55nm			4.4mb
FLN	79.16	330 eP	02	41.00	0.1
Z	20s	0.08um			4.0MsZ
LDF	79.18	330 eP	02	40.60	-0.4
SMF	79.28	327 eP	02	41.80	0.3
	0.5s	6.90nm			4.4mb
AVF	79.35	327 eP	02	42.10	0.2
	0.6s	14.45nm			4.6mb
FIN	79.40	323 P	02	41.27	-1.0
RRL	79.45	324 P	02	42.61	-0.2
ROB	79.48	323 P	02	41.99	-0.7
GRR	79.61	330 eP	02	43.30	0.1
	0.3s	5.95nm			4.5mb
PZZ	79.64	324 P	02	41.89	-1.8
ENR	79.73	323 P	02	41.89	-2.1
STV	79.76	323 P	02	42.10	-2.1
LPF	79.98	330 eP	02	45.30	0.2
	0.3s	7.65nm			4.6mb
MAF	80.13	327 eP	02	46.80	0.8
	0.8s	20.15nm			4.6mb
TCF	80.21	327 eP	02	46.80	0.4
	0.8s	5.35nm			4.1mb
PGF	80.35	321 eP	02	47.40	0.1
LSF	80.51	328 eP	02	48.30	0.3
	0.6s	7.65nm			4.4mb
FRF	80.60	323 eP	02	48.40	0.0
LMR	80.84	323 eP	02	49.70	0.0
	0.5s	5.85nm			4.4mb
MFF	80.86	329 eP	02	50.20	0.5
	0.7s	5.50nm			4.2mb
CAF	81.40	327 eP	02	53.80	1.2
LFF	81.91	328 eP	02	56.40	1.3
	0.9s	13.10nm			4.5mb
LPO	81.95	327 eP	02	56.30	1.0
	0.5s	5.85nm			4.4mb
EPF	83.66	327 eP	03	04.50	0.4
	0.7s	4.40nm			4.2mb

S.D. = 0.9 on 96 of 100 obs.

* APR 29, 1991 16h 58m 50.72±0.90s
42.756 N ±11.9km 43.556 E ±15.3km
DEPTH = 10.0km (geophysicist)
4.0mb (3 obs.)
WESTERN CAUCASUS (362)

TAB	5.14	155 eP	00	10.00	0.3
KVT	5.85	256 ePn	00	19.20	-0.3
NUR	21.16	334 eP	03	31.10	-6.9X
KAF	21.92	338 eP	03	54.30	8.7X
UPP	23.33	326 iP	04	10.20	10.7X
HFS	25.14	324 eP	04	18.00	1.0
	0.8s	8.10nm			4.5mb
Z	12s	0.05um			3.2MsZ
NB2	26.65	325 P	04	31.70	0.6
	1.0s	3.20nm			4.0mb
FRB	61.15	332 eP	09	07.00	-0.1
YKA	73.64	350 eP	10	24.20	-1.4
	0.6s	0.60nm			3.8mb

S.D. = 1.1 on 6 of 9 obs.

* APR 29, 1991 17h 10m 27.24±0.55s
42.224 N ±13.7km 43.409 E ±7.6km
DEPTH = 10.0km (geophysicist)
4.6mb (8 obs.)
WESTERN CAUCASUS (362)

TAB	4.71	151 eP	11	54.00	13.8X
KAS	7.26	266 eP	12	16.00	0.1
MLR	13.02	290 eP	13	24.00	-11.0X
		e	23	00.00	
NUR	21.59	334 eP	15	33.00	14.2X
KHC	21.86	299 eP	15	12.00	-9.8X
KAF	22.37	339 iP	15	27.00	0.3
	0.8s	7.80nm			4.2mb
		eSP	15	32.60	
CLL	22.58	304 eP	15	33.00	4.2X
HFS	25.51	325 eP	15	56.50	-0.5
	0.7s	11.50			

29d 17h

DMN 0.8s 14.00nm 4.9mb
36.79 100 P 17 37.40 0.1
0.8s 12.00nm 4.7mb
KKN 36.82 99 P 17 37.24 -0.2
PKI 37.04 100 P 17 39.46 0.1
1.0s 18.00nm 4.8mb
GUN 37.19 99 P 17 40.68 0.0
0.7s 12.00nm 4.8mb
YKA 74.15 350 eP 22 02.30 -2.8X
0.8s 0.90nm 3.9mb
S.D. = 0.3 on 9 of 16 obs.

? APR 29, 1991 17h 21m 29.31±1.31s
42.934 N ±19.8km 43.881 E ±26.1km
DEPTH = 10.0km (geophysicist)
4.3mb (5 obs.) 3.8Msz (1 obs.)
WESTERN CAUCASUS (362)

TAB 5.21 158 eP 22 49.00 -0.2
SPC 17.52 299 eP 25 33.00 -2.2
ZST 19.42 295 e(P) 25 58.90 0.4
KSP 20.36 302 eP 26 07.00 -1.4
NUR 21.11 333 eP 26 22.00 6.0X
PRU 21.31 300 eP 26 20.00 1.8
KHC 21.84 297 eP 26 25.00 1.4
KAF 21.84 338 iP 26 24.40 0.9
0.7s 9.80nm 4.3mb
esP 26 31.30
CLL 22.48 303 e(P) 26 31.00 1.1
1.7s 37.00nm 4.6mb
MOX 23.26 301 eP 26 45.00 7.5X
HFS 25.14 324 eP 26 54.50 -1.1
0.9s 13.80nm 4.6mb
Z 18s 0.25um 3.8Msz

26 59.20
e 27 10.20
ePP 27 20.50
LR 36 01.00
NB2 26.65 324 P 27 09.00 -0.7
1.0s 2.70nm 3.9mb
FRB 61.10 332 eP 31 42.00 -3.4X
YKA 73.51 350 eP 33 00.10 -3.4X
0.8s 0.40nm 3.5mb
S.D. = 1.5 on 10 of 14 obs.

APR 29, 1991 17h 55m 00.28±0.53s
42.774 N ±10.1km 44.029 E ±6.5km
DEPTH = 10.0km (geophysicist)
4.4mb (11 obs.)
WESTERN CAUCASUS (362)

TAB 5.02 159 eP 56 18.00 0.5
OBN 13.26 341 eP 58 10.00 -0.9
MLR 13.27 288 eP 58 12.00 0.6
VAY 16.01 272 eP 58 50.00 3.0X
OHR 17.36 272 eP 58 55.50 -8.6X
SPC 17.69 299 eP 59 06.80 -1.6
ZST 19.59 295 eP 59 33.20 1.9
e 26 10.30
GAR 20.20 92 eP 59 38.00 0.0
KSP 20.54 303 eP 59 41.00 -0.3
i 59 59.50
VBY 20.78 287 e(P) 59 46.10 2.3
NUR 21.30 333 eP 59 48.90 0.0
0.6s 16.40nm 4.6mb
PRU 21.49 300 eP 59 50.80 -0.2
e 00 06.50
BRG 22.00 302 eP 00 01.60 5.5X
1.0s 10.00nm 4.2mb
KHC 22.01 297 eP 59 58.00 1.7
KAF 22.04 338 iP 59 57.00 0.7
0.7s 11.10nm 4.4mb
esP 00 01.90
KBA 22.07 292 e(P) 59 56.00 -1.1
1.3s 20.70nm 4.4mb
CLL 22.66 303 iPd 00 03.30 0.6
1.5s 34.00nm 4.6mb
MOX 23.43 301 eP 00 14.00 3.8X
UPP 23.51 326 iP 00 11.70 0.9
GRF 23.59 298 eP 00 12.50 0.8
HFS 25.33 324 eP 00 28.50 0.1
0.7s 14.70nm 4.8mb
Z 13s 0.05um 3.2MszX

00 32.40
e 00 35.70
PGF 25.65 282 eP 00 31.50 -0.2
0.9s 9.85nm 4.5mb

SOD 26.39 345 iP 00 39.30 1.2
i 00 53.80
SBF 26.51 285 eP 00 37.70 -1.9
LPL 26.75 289 eP 00 41.70 -0.3
0.7s 2.20nm 4.0mb
NB2 26.84 324 P 00 41.70 -0.7
0.9s 6.10nm 4.3mb
SMF 28.60 292 eP 00 57.10 -1.4
AVF 28.92 292 eP 00 59.70 -1.6
0.7s 3.30nm 4.2mb
WMO 31.53 73 P 01 25.50 0.9
LZH 45.84 77 eP 03 23.00 -1.4
1.4s 25.00nm 5.0mb
HHC 49.13 68 eP 03 51.60 1.6
TIY 51.17 71 P 04 04.00 -1.5
LIC 56.46 244 P 04 40.10 -4.6X
FRB 61.29 332 eP 05 17.00 -0.7
S.D. = 1.2 on 29 of 34 obs.

% APR 29, 1991 18h 00m 07.26±0.79s
45.439 N ±8.0km 27.033 E ±6.2km
DEPTH = 10.0km (geophysicist)
ROMANIA (358)

ISR 0.46 229 iPc 00 16.00 -0.6
VRI 0.48 333 ePc 00 16.50 -0.6
MLR 0.77 274 iPd 00 22.50 0.1
CFR 0.83 107 iPd 00 23.80 0.5
TLB 1.11 140 iPd 00 27.50 -0.5
MTUR 1.41 262 ePd 00 34.00 1.0
e 26 30.00
COZ 1.90 267 eP 00 43.50 3.3X
S.D. = 0.9 on 6 of 7 obs.

APR 29, 1991 18h 12m 23.21±0.14s
11.258 S ±2.7km 77.672 W ±3.3km
DEPTH = 58.3km (33 depth phases)
5.7mb (72 obs.)
NEAR COAST OF PERU (115)

mb 5.5 (BRK). Mo=1.6*10**18 Nm
(PPT). One adobe house destroyed
and damage (V) to several other
buildings at Huacho. Felt (IV)
at Lima and Chimbote and (III)
at Huoroz.

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 39C
Centroid Location:
Origin Time 18:12:29.2 0.5
Lat 11.06S 0.05 Lon 77.51W 0.07
Dep 57.0 FIX Half-duration 3.4
Moment Tensor: Scale 10**17 Nm
Mrr= 1.59 0.40 Mtt=-2.80 0.51
Mtf= 1.21 0.70 Mrt=-4.71 0.34
Mrf= 7.69 0.33 Mtf= 0.83 0.39
Principal Axes:
T Vol= 9.76 Plg=47 Azm=250
N -0.82 14 145
P -8.94 40 43
Best Double Couple: Mo=9.4*10**17
NP1: Strike= 72 Dip=14 Slip= 16
NP2: 326 86 104

PT10 1.06 140 iPd 12 44.00 1.8
NNA 1.09 132 iPc 12 43.50 0.9
PT08 1.30 123 iP 12 45.30 -0.5
iS 12 59.30
PT09 1.51 106 iPc 12 47.40 -1.5
HUA 2.43 109 iPd 13 07.50 5.9X
i 13 27.00
iS 14 34.30
ARE 7.92 131 eP 14 18.00 -0.6
iS 15 57.50
TUNG 9.81 355 P 14 46.00 1.5
QUIL 10.51 353 P 14 55.20 1.0
ZOB0 10.53 119 iPc 14 53.00 -1.6
LR 17 00.00
VC1 10.57 356 P+ 14 56.60 1.4
LPB 10.67 121 Pc 14 54.00 -2.4
LR 17 25.00
ANGL 10.79 1 eP 15 17.70 19.6X
OUR 11.05 356 eP 15 02.00 0.5
YANA 11.11 355 eP 15 02.90 0.6
CAYA 11.27 358 P 15 04.60 0.0
COTA 11.54 357 P 15 08.80 0.6
PSO 12.37 2 eP 15 18.50 -0.7

ANT 14.18 152 eP 15 40.50 -2.0
i 15 49.70
i(S) 16 08.00
BOG 16.18 13 iPd 16 10.00 1.3
eS 19 12.00
SIV 16.80 108 Pd 16 12.80 -3.4X
FUQ 17.07 13 iP 16 18.00 -1.9
SLA 17.69 141 ePc 16 27.50 0.2
UPA 20.19 355 iPd- 16 57.00 1.2
iLR 20 42.00
SDV 21.20 20 iP 17 06.50 0.2
ZON 21.84 159 e(P) 17 09.30 -3.1X
CEOS 22.19 25 iP 17 17.30 1.2
TOV 22.33 21 iP 17 17.90 0.5
ROCH 22.46 165 eP 17 19.50 0.7
PEL 22.71 165 iPc 17 21.00 0.0
1.5s 1111.11nm 6.1mb
LCCCH 22.81 167 eP 17 22.00 0.1
MDZ 23.00 161 i(P) 17 24.90 1.0
SAN 23.01 165 iPc 17 24.30 0.4
TACH 23.13 166 eP 17 25.50 0.4
PCH 23.20 165 eP 17 26.00 0.1
LNV 23.31 167 eP 17 26.00 -0.7
OLLA 23.74 27 iP 17 32.70 1.5
MORO 23.87 23 iP 17 33.20 0.7
CUM 25.41 32 iP 17 45.50 -1.6
TRN 27.11 37 eP 18 03.50 0.8
0.7s 61.00nm 5.3mb
Z 20s 16.40um 5.6Msz
PPD 27.39 116 eP 18 05.10 -0.2
e 18 19.40 59km
e 18 36.60
FDF 30.58 33 eP 18 33.00 -0.8
0.8s 1.30nm 3.7mb X
BBL 31.07 31 eP 18 36.00 -2.1
CLLP 31.14 21 P 18 38.00 -0.7
PAG 31.39 31 eP 18 39.00 -2.0
VAO 31.51 116 eP 18 40.00 -2.1
SEG 31.80 30 eP 18 42.50 -2.0
DEG 31.95 31 eP 18 42.00 -3.9X
BPA 32.18 29 eP 18 45.00 -2.8X
BMA 33.93 114 eP 19 02.40 -0.7
e 19 18.00 63km
SOB1 36.23 90 eP 19 22.10 -0.7
e 19 26.40 14kmX
PPM 36.53 325 (P) 19 28.00 2.2
CAI 40.30 87 iPd 19 55.50 -1.2
HBF 44.02 357 P 20 26.60 -0.1
PRM 45.31 355 P 20 36.20 -0.9
JSC 45.41 356 P 20 37.00 -0.9
LHS 45.58 356 P 20 38.40 -0.8
TKL 47.01 353 P 20 49.40 -1.2
pP 21 04.40 58km
BLA 48.28 357 P 20 56.70 -3.8X
0.8s 14.09nm 5.0mb
OLY 48.30 345 P 20 58.30 -2.3
NAV 48.40 357 P 21 00.40 -1.0
pP 21 15.80 59km
CVL 48.98 359 P 21 05.50 -0.3
NA2 49.12 360 P 21 07.00 0.2
ELC 49.49 348 P 21 08.20 -1.5
MEO 49.90 337 iPd 21 12.50 -0.5
TUL 49.94 341 ePc 21 11.20 -2.0
0.8s 114.70nm 6.0mb
Z 23s 1.49um 4.9MszX
e 21 27.20 62km
LR 37 42.10
FVM 50.42 347 iP 21 15.00 -1.8
1.0s 62.00nm 5.6mb
LVNJ 51.87 3 P 21 27.60 -0.2
PNJ 52.00 3 iP 21 28.20 -0.5
TBR 52.23 3 P 21 29.80 -0.7
TXNY 52.27 3 iP 21 30.60 -0.2
CLE 52.60 356 iP 21 31.20 -2.1
ALQ 53.43 330 iPd 21 39.20 -0.5
0.9s 35.71nm 5.4mb
e 21 50.00
ePP 21 54.00 55km
ANMO 53.44 330 P 21 39.40 -0.3
WVLY 53.47 359 P 21 38.80 -0.8
pP 21 53.30 54km
RKT 55.69 250 iP 21 55.20 -1.0
1.2s 120.00nm 5.8mb
iP 22 10.20 56km
BNH 55.89 6 P 21 57.50 0.3
GLA 56.54 323 eP 22 03.00 0.8
MIM 56.77 7 P 22 03.20 -0.3

GLD	56.84	335 P	22 03.80	-0.6	EDM	71.08	338 iPd	23 35.90	-1.2			pP	25 33.60	62km
	1.5s	42.97nm		5.3mb		0.8s	98.00nm		5.8mb	LFF	89.80	44 eP	25 16.00	-0.8
GOL	56.86	335 P	22 03.60	-1.0	MCW	71.75	330 P	23 41.70	0.5		0.8s	56.40nm		5.9mb
	0.9s	13.26nm		5.0mb	PGC	72.03	330 eP	23 43.00	0.3	LPO	90.04	44 eP	25 17.00	-0.9
		pP	22 18.00	53km	LIC	74.33	80 P	23 56.70	-0.2		0.9s	52.40nm		5.8mb
BAR	57.40	321 eP	22 07.00	-1.3		1.1s	408.00nm		6.3mb	WIN	90.08	113 iPd	25 18.00	-0.8
PV09	57.56	331 iP	22 08.00	-1.6		Z	20s	3.00um	5.6msz		1.0s	29.00nm		5.5mb
PLM	57.98	321 eP	22 13.00	0.5	TIC	74.44	80 P	23 57.60	0.0		Z	18s	17.18um	6.5msz
TPC	58.00	323 eP	22 13.00	0.5	SNA	74.54	160 iPd	23 56.90	-0.2	FLN	90.09	40 eP	25 17.50	-0.5
PEC	58.53	322 P	22 16.00	-0.1		1.0s	800.00nm		6.6mb		1.1s	78.15nm		5.9mb
CBM	58.55	8 P	22 16.00	0.0	KIC	74.64	80 P	23 58.58	-0.1	TOA	90.12	334 eP	25 18.00	0.8
RVR	58.73	322 eP	22 17.00	-0.4		0.8s	499.50nm		6.5mb	LDF	90.27	40 eP	25 18.10	-0.7
MSU	59.07	329 P	22 20.00	-0.1	FRB	75.10	4 eP	23 59.00	-1.3		0.9s	40.95nm		5.8mb
GSC	59.28	323 eP	22 22.00	0.6		0.8s	53.00nm		5.5mb	RJF	90.43	44 eP	25 18.00	-0.9
MWC	59.30	321 eP	22 22.00	0.3	SPA	78.82	180 iPd	24 20.80	-0.5		0.9s	42.60nm		5.8mb
PAS	59.32	321 eP	22 22.00	0.4		1.0s	70.00nm		5.6mb	EKA	90.54	33 P	25 20.00	0.1
SBH	59.47	322 eP	22 23.00	0.3			i	24 23.40	8kmX		1.0s	38.70nm		5.7mb
DAU	60.08	331 P	22 27.00	-0.1	YKA	78.91	343 eP	24 20.50	-1.1	LSF	90.69	43 eP	25 19.80	-1.1
CLC	60.10	323 eP	22 26.00	-1.0		0.6s	27.10nm		5.4mb		1.2s	32.75nm		5.6mb
ISA	60.52	322 eP	22 30.00	0.2	NVL	79.29	160 iPc	24 23.00	-0.6	CAF	90.71	44 eP	25 20.30	-0.7
DUG	60.67	330 P	22 31.10	0.2			iPcP	24 40.00	87kmX		1.1s	50.05nm		5.8mb
	0.7s	29.54nm		5.5mb			i	24 46.00		TCF	91.16	43 eP	25 21.90	-1.1
SYF	60.69	320 eP	22 30.00	-1.1			i	25 03.00			0.9s	15.55nm		5.4mb
BLP	60.97	320 P	22 32.40	-0.4			e	27 18.00		MAF	91.38	43 eP	25 23.10	-1.0
BCH	61.18	321 P	22 34.30	-0.1			eS	34 18.00			1.0s	27.00nm		5.6mb
TNP	61.46	325 P	22 35.90	-0.5			e	34 46.00		PYM	91.56	44 P	25 25.19	0.2
BONR	61.98	324 P	22 39.80	-0.2	TIO	79.43	55 iPd	24 27.00	1.7	LBL	91.59	44 P	25 25.45	0.5
FRI	62.15	323 ePd	22 39.30	-1.4			i	24 45.50	68km	BGF	91.65	43 eP	25 24.30	-1.0
PRI	62.16	321 eP	22 41.00	0.0	AVE	80.12	53 iPd	24 31.00	2.3		0.8s	33.60nm		5.8mb
		ePp	22 57.00	59km			i	24 47.00	57km	AGO	91.72	43 P	25 25.52	-0.1
LLA	62.64	322 ePd	22 44.00	-0.1	LIS	80.78	48 iPd	24 33.50	1.4	FBA	91.90	336 eP	25 26.30	0.3
		iPp	23 00.20	60km	FIG	81.15	49 eP	24 36.00	1.9		0.8s	43.10nm		5.9mb
		esP	23 06.40		MOE	81.29	48 iPc	24 36.50	1.7	GRC	91.99	42 P	25 26.42	-0.4
PRS	62.72	321 ePd	22 44.70	0.2	COI	81.87	46 eP	24 39.10	1.4	PLDF	92.03	44 P	25 27.21	0.1
		ePp	23 00.90	60km			i	24 55.00	56km	AVF	92.05	43 eP	25 26.00	-1.1
SAO	63.05	321 e(P)	22 50.20	3.5X	IFR	82.00	54 iPd	24 40.50	1.7		1.2s	32.75nm		5.6mb
CMB	63.25	323 ePd	22 47.80	-0.2	PTO	82.09	45 iPd	24 39.50	0.7	SMF	92.34	43 eP	25 27.50	-1.0
		iPp	23 04.20	61km	EVAL	82.13	49 iPd	24 40.70	1.5		1.3s	54.15nm		5.8mb
		esP	23 11.40		MTE	82.57	46 eP	24 42.50	1.0	LOR	92.50	42 eP	25 27.80	-1.4
MHC	63.54	322 ePd	22 50.50	0.4	EJIF	82.70	51 iPd	24 44.50	2.3		1.0s	18.00nm		5.5mb
PCC	64.09	322 e(P)	22 53.30	-0.2	STS	82.79	44 eP	24 43.60	1.1	LBF	92.51	43 eP	25 28.00	-1.3
BKS	64.25	322 ePd	22 54.90	0.4	EPRU	83.05	50 eP	24 45.80	1.8	LRG	93.36	47 eP	25 32.90	-0.3
	0.8s	66.00nm		5.7mb	MVO	83.20	46 eP	24 45.50	0.8		1.6s	130.60nm		6.1mb
		ePp	23 11.20	60km			i	25 08.00	84kmX	LMR	93.44	47 eP	25 33.20	-0.4
BRK	64.26	322 ePd	22 54.90	0.3	EHOR	83.33	49 eP	24 46.30	1.0		1.3s	57.75nm		5.8mb
		ePp	23 11.00	59km	EPLA	83.49	47 iPd	24 47.20	1.0	FRF	93.59	46 eP	25 33.70	-0.5
SXM	64.59	335 ePd	22 56.10	-0.8	ERUA	83.57	45 eP	24 47.80	1.3		1.2s	53.55nm		5.8mb
LRM	64.86	334 ePd	22 58.00	-0.7	MAL	83.60	51 iPd	24 48.50	1.8	DOU	93.63	40 Pc	25 34.70	0.4
ORV	64.90	324 iPd	22 59.40	0.6			iS	35 06.00			0.7s	13.30nm		5.5mb
		iPp	23 15.60	60km	EMON	83.83	44 iPd	24 48.50	0.7	UCC	93.65	39 P-	25 34.00	-0.3
		isP	23 22.00		ECOG	84.41	50 eP	24 52.60	1.6	RRL	93.97	45 P	25 37.32	1.1
MIN	65.49	324 ePd	23 01.90	-0.8	AFC	84.42	50 eP	24 52.80	1.7	LPL	94.05	45 eP	25 36.00	0.0
		ePp	23 18.30	60km	EBAN	84.53	50 eP	24 53.20	1.8		0.9s	16.40nm		5.5mb
SCH	66.46	7 ePd	23 07.20	-1.3	TOL	84.90	48 iPd	24 54.00	0.8	LPG	94.06	45 eP	25 36.80	0.0
	1.1s	100.00nm		5.7mb		2.0s	588.24nm		6.3mb		1.1s	32.95nm		5.7mb
FHC	67.16	323 ePd	23 13.80	0.6			ePP	28 22.00		PZZ	94.10	46 P	25 37.73	0.9
RUV	67.73	258 iP	23 18.60	1.4			iS	35 14.00		DAG	94.13	11 iPc	25 35.50	-0.6
	1.0s	55.00nm		5.5mb	GUD	85.07	47 eP	24 55.20	1.0		0.6s	16.67nm		5.6mb
		iPp	23 33.40	53km	EHUE	85.32	50 eP	24 55.30	-0.1	STV	94.21	46 P	25 37.42	0.2
VAH	67.97	258 iP	23 19.00	0.4	ENIJ	85.35	51 eP	24 55.40	-0.1	SBF	94.21	46 eP	25 36.70	-0.5
	1.0s	40.00nm		5.4mb	VAL	85.37	35 iP	24 56.90	1.7	ENR	94.27	46 P	25 37.63	0.1
		iPp	23 35.00	58km			e	37 53.30		EMS	94.30	44 ePc	25 38.40	0.7
TPT	67.98	258 iP	23 19.00	0.3	EVIA	85.64	49 eP	24 58.20	1.1	HAU	94.31	42 eP	25 36.50	-1.0
	1.0s	105.00nm		5.8mb	ETOR	86.64	47 eP	25 03.10	1.2	LSD	94.33	45 P	25 39.06	1.1
		iPp	23 35.30	60km	ECRI	86.87	46 eP	25 03.90	1.0	RSP	94.34	45 P	25 38.76	0.9
PMO	68.25	258 iP	23 20.80	0.4	ECHE	87.06	49 eP	25 05.00	1.1	DBN	94.43	38 eP	25 35.00	-2.9X
	1.0s	75.00nm		5.6mb	BST	87.68	40 P	25 05.49	-1.1	BSF	94.56	42 eP	25 37.90	-0.9
		ePp	23 37.00	59km	EGRA	88.29	47 eP	25 13.20	3.5X	ROB	94.60	46 P	25 38.96	0.0
FFC	68.86	345 iPd	23 22.40	-1.1	AKU	88.33	21 eP	25 11.10	1.8	IMA	94.61	337 eP	25 38.70	0.0
	0.9s	44.00nm		5.4mb		1.5s	122.22nm		5.9mb		1.4s	35.20nm		5.6mb
DPW	68.98	332 P	23 24.50	0.0	EROQ	88.43	48 eP	25 11.20	0.8			e	25 55.70	59km
TBI	69.01	249 iP	23 27.20	2.2	EBR	88.49	48 eP	25 11.00	0.4	ENN	94.61	39 iPd	25 38.20	-0.5
	1.2s	135.00nm		5.8mb	INK	88.58	342 iPd	25 10.20	-0.3		1.0s	17.00nm		5.4mb
		iPp	23 43.00	57km		1.0s	76.00nm		5.9mb	MEM	94.63	39 Pc	25 39.30	0.5
TVO	69.25	255 eP	23 28.00	1.3			pP	25 27.00	59km	DIX	94.63	44 ePc	25 40.40	1.1
	1.0s	100.00nm		5.7mb	BTH	88.64	46 iPc	25 12.00	0.7	CDF	95.00	42 eP	25 39.60	-1.1
		ePp	23 43.00	54km			i	25 23.00	35kmX		1.0s	18.00nm		5.5mb
PAE	69.58	255 eP	23 29.00	0.5			i	25 50.80		MMK	95.00	44 ePc	25 42.10	1.1
	1.0s	75.00nm		5.6mb	EPF	88.99	46 eP	25 12.70	-0.4	PGF	95.08	48 eP	25 40.70	-0.6
		ePp	23 45.00	58km		1.5s	94.00nm		5.9mb		1.2s	26.80nm		5.6mb
AFR	69.78	255 eP	23 30.00	0.2	LPF	89.51	41 eP	25 14.50	-0.8	PCP	95.12	46 P	25 41.11	-0.3
	1.0s	175.00nm		5.9mb		0.9s	32.75nm		5.6mb	FEL	95.38	42 eP	25 41.99	-0.6
LON	69.92	329 P	23 30.00	-0.2	MFF	89.68	42 eP	25 15.40	-0.8	WTS	95.40	38 eP	25 43.00	0.7
BMW	70.45	328 P	23 33.80	0.3		0.7s	19.85nm		5.5mb		1.0s	16.00nm		5.4mb
PNT	70.68	332 iPd	23 35.50	0.8	GRR	89.74	40 eP	25 15.40	-1.0	ZLA	95.56	43 eP+	25 44.20	0.9
	0.7s	67.00nm		5.7mb		1.0s	52.00nm		5.8mb	SLE	95.68	43 ePc	25 44.20	0.4
		pP	23 52.00	60km	KLU	89.76	334 P	25 15.90	-0.4	LLS	95.85	44 ePc	25 46.30	1.4

FVI	22.35	291 P	28 15.40	0.8	SOD	26.52	345 iP	28 55.20	0.8	EBH	32.95	311 eP	29 51.40	-0.5
WET	22.38	298 eP	28 16.00	1.0			i	29 06.80		ELO	33.08	311 eP	29 52.60	-0.4
AZI	22.39	279 P	28 16.50	1.4	LPG	26.62	289 eP	28 53.90	-1.9		0.9s	56.00nm		5.5mb
ARV	22.49	283 P	28 17.28	1.2		1.4s	238.25nm		5.7mb	ETA	34.51	305 eP	30 04.00	-1.3
	1.4s	438.40nm		5.7mb	LPL	26.63	289 eP	28 54.10	-1.8	POO	34.98	124 eP	30 07.50	-2.3
CLL	22.60	303 iPc	28 17.60	0.5	RRL	26.67	288 P	28 55.74	-0.5	EVIA	35.01	279 eP	30 09.50	-0.4
	1.7s	550.00nm		5.8mb	HAU	26.69	295 eP	28 53.70	-2.5	EHUE	35.38	278 eP	30 12.80	-0.3
	eS		32 30.00			1.5s	167.15nm		5.5mb	ENIJ	35.43	277 eP	30 12.20	-1.2
MNO	22.61	268 P	28 15.50	-2.0	WIT	26.70	305 eP	28 58.50	2.3	GUD	35.50	283 eP	30 12.90	-1.2
VVI	22.62	289 P	28 18.39	1.1	BNI	26.73	288 P	28 57.40	0.7	TOL	35.69	282 iPd	30 15.00	-0.6
BRN	22.71	306 ePc	28 19.50	1.4	NB2	26.88	325 P	28 56.70	-1.1		1.3s	115.38nm		5.6mb
MEU	22.75	266 P	28 17.80	-0.9		0.7s	10.40nm		4.6mb	GKN	36.03	100 P	30 18.84	0.1
RSM	22.78	284 P	28 20.10	1.2	MEM	26.92	300 P	29 00.20	2.1		1.1s	127.00nm		5.7mb
PZI	22.78	266 P	28 19.21	0.1	VITF	26.92	295 P	28 57.84	-0.4	EBAN	36.12	279 eP	30 17.00	-2.3
	1.1s	257.20nm		5.6mb	ENN	26.98	301 eP	29 01.00	2.3	AFC	36.30	278 eP	30 19.20	-1.7
MNS	22.87	280 P	28 20.70	0.9		1.5s	200.00nm		5.6mb	ECOG	36.30	278 eP	30 19.60	-1.3
RMP	22.97	279 P	28 19.90	-0.9	FRF	26.99	285 eP	28 57.90	-1.0	DMN	36.60	101 P	30 24.00	0.3
RDP	22.97	279 P	28 22.20	1.4		0.9s	55.70nm		5.3mb		0.9s	148.00nm		5.8mb
CTI	23.15	290 P	28 28.12	5.5X	LRG	27.22	285 eP	28 59.30	-1.7	KKN	36.62	100 P	30 23.70	-0.1
	1.7s	300.50nm		5.6mb		1.0s	82.00nm		5.4mb		0.9s	99.00nm		5.6mb
CRE	23.18	283 P	28 25.40	2.4	DBN	27.53	304 eP	29 08.00	4.3X	PKI	36.84	100 P	30 25.06	-0.7
SFI	23.21	284 P	28 25.31	2.2		e(S)		34 16.00			1.0s	116.00nm		5.6mb
	1.5s	1313.80nm		6.3mb	DOU	27.81	299 P+	29 08.60	2.3	GUN	36.99	99 P	30 27.22	0.2
PGD	23.31	284 P	28 26.50	2.2		S		34 18.00			1.1s	168.00nm		5.7mb
MOX	23.36	301 eP+	28 26.00	1.5	UCC	27.97	301 P	29 10.00	2.3	EPLA	37.09	283 eP	30 26.30	-1.1
	2.3s	206.00nm		5.3mb		e+		29 41.00		EHOR	37.32	280 eP	30 29.00	-0.3
	eS		32 42.00			S		34 24.00		EJIF	38.03	278 eP	30 34.00	-1.3
FUR	23.38	295 eP	28 26.00	1.2	SNF	28.01	300 P	29 08.00	-0.1	KBS	38.48	351 eP	30 47.00	8.4X
	1.8s	482.00nm		5.8mb	RGS	28.19	328 eP	29 10.00	0.5	EVAL	38.50	280 eP	30 39.00	-0.3
SQTA	23.42	293 iPc	28 25.20	-0.1	SSB	28.19	289 P	29 08.99	-0.8	HYB	38.77	120 eP	30 41.00	-0.7
	1.4s	567.00nm		5.9mb	LBF	28.36	293 eP	29 08.60	-2.8X		1.0s	70.00nm		5.3mb
GRF	23.51	299 ePc	28 27.30	1.3		1.1s	34.20nm		5.1mb	IFR	39.09	273 iP	30 38.50	-5.9X
	2.3s	321.00nm		5.5mb	LOR	28.42	293 eP	29 08.90	-2.9X		i		30 56.00	
OGA	23.55	292 eP	28 27.00	0.4		1.0s	28.00nm		5.0mb		i		31 19.00	
UPP	23.56	326 iP	28 29.10	2.8X	SMF	28.49	292 eP	29 10.10	-2.4	AKU	40.73	326 eP	31 00.40	3.1X
	iS		32 58.00			1.1s	34.20nm		5.1mb		1.7s	184.62nm		5.5mb
FAI	23.60	267 P	28 29.50	2.5X	KEV	28.58	348 eP	29 12.00	-1.0	AVE	40.87	274 iP	30 59.00	0.1
FIR	23.66	284 eP	28 30.00	2.6X	SSF	28.68	293 eP	29 11.40	-2.8X	GBA	40.96	125 Pc	30 58.10	-1.6
	iS		32 48.00			1.1s	34.20nm		5.1mb		0.9s	35.90nm		5.1mb
SAL	23.97	289 P	28 32.70	2.3	PLDF	28.73	291 P	29 14.90	0.2	TIO	41.93	271 iP	31 07.50	-0.3
MAO	23.97	281 P	28 32.50	2.0	AVF	28.81	292 eP	29 13.20	-2.1		i		31 31.40	
MME	24.00	285 P	28 33.60	2.6		1.1s	95.25nm		5.5mb	DAG	42.73	342 iPd	31 14.00	0.4
BDI	24.09	285 P	28 33.50	1.8	GRC	28.95	294 P	29 16.64	0.1		0.7s	47.95nm		5.3mb
CVT	24.11	269 P	28 33.88	2.1	AGO	29.05	291 P	29 17.59	0.0	KOD	43.63	128 eP	31 21.50	-0.5
	1.3s	330.70nm		5.8mb	LBL	29.10	289 P	29 18.21	0.3	BDT	53.06	101 eP	32 35.00	0.2
OSS	24.16	291 ePc	28 33.40	0.9	HYA	29.14	323 eP	29 19.40	1.3		1.0s	41.40nm		5.3mb
VDL	24.64	291 ePc	28 37.50	0.3	PYM	29.18	290 P	29 19.18	0.3	NST	54.90	101 eP	32 46.20	-2.2
STU	24.78	296 ePc	28 38.00	-0.3	BGF	29.18	292 eP	29 16.40	-2.3	TIC	55.88	245 P	32 52.34	-3.2X
	1.0s	230.00nm		5.8mb		1.0s	38.00nm		5.1mb		0.9s	37.00nm		5.4mb
BOB	24.81	287 P	28 41.18	2.5	BER	29.25	321 eP	29 20.50	1.4	KIC	55.91	244 Pc	32 52.48	-3.2X
	1.4s	376.90nm		5.9mb	ASK	29.35	321 eP	29 21.20	1.2		0.8s	18.50nm		5.2mb
DHJN	24.84	181 eP	28 41.33	1.9	MAF	29.42	291 eP	29 19.10	-1.8	LIC	56.20	244 Pc	32 54.54	-3.3X
LLS	24.94	292 ePc	28 39.60	-0.5		1.5s	127.95nm		5.5mb		0.7s	26.50nm		5.4mb
SLE	25.25	294 ePc	28 43.00	0.2	TCF	29.66	292 eP	29 21.30	-1.7	SSE	61.02	73 P-	33 32.00	0.7
ZLA	25.33	293 eP+	28 43.90	0.3		1.4s	93.65nm		5.4mb		1.4s	103.00nm		5.8mb
TNS	25.34	300 ePc	28 44.40	0.8	CAF	29.98	289 eP	29 24.60	-1.3	FRB	61.37	332 eP	33 33.00	-0.2
HFS	25.37	324 eP	28 44.70	0.9		0.8s	12.75nm		4.8mb	IPM	63.15	110 ePd	33 44.80	-0.9
	1.3s	208.70nm		5.7mb	TRO	29.98	343 eP	29 26.50	0.9		1.0s	48.50nm		5.6mb
	e		28 47.90		RJF	30.29	290 eP	29 27.20	-1.4	BUL	63.96	196 eP	33 49.30	-1.7
PCP	25.48	287 P	28 45.08	0.0		1.8s	129.45nm		5.5mb	BRW	65.48	7 P	34 01.00	0.9
PGF	25.50	282 eP	28 44.10	-1.2	NDI	30.31	106 eP	29 29.00	0.1	SCH	66.44	324 eP	34 06.00	-0.5
	1.4s	300.60nm		5.8mb	LPO	30.64	289 eP	29 30.00	-1.7	MAT	69.29	59 iPd	34 23.80	-0.9
FEL	25.57	294 eP	28 43.55	-2.4	ESEL	30.68	279 eP	29 33.00	0.9		1.6s	60.00nm		5.5mb
CKI	25.68	286 P	28 48.30	1.4	LDF	30.96	297 eP	29 32.40	-2.0	WIN	69.34	206 iPd	34 22.50	-2.7
MMK	25.71	290 ePc	28 46.30	-1.1		1.2s	35.70nm		5.1mb		1.0s	55.00nm		5.7mb
FIN	25.77	286 P	28 47.13	-0.6	FLN	31.18	297 eP	29 34.30	-2.1	IMA	70.85	7 P	34 33.80	0.0
ROB	25.99	286 P	28 49.28	-0.6	MFF	31.22	293 eP	29 34.30	-2.5		1.2s	43.56nm		5.5mb
CDF	26.06	296 P	28 50.88	0.5		1.1s	22.00nm		5.0mb	CBM	72.40	318 P	34 44.40	1.1
DIX	26.09	290 ePc	28 51.00	0.0	GRR	31.46	296 eP	29 36.60	-2.3	F8A	72.48	5 P	34 43.70	0.3
MOF	26.17	294 P	28 51.98	0.5		0.9s	37.65nm		5.3mb		0.8s	27.59nm		5.4mb
BNS	26.20	301 iPd	28 53.80	2.2	EPF	31.60	286 eP	29 37.30	-2.9X	TTA	73.65	9 P	34 51.20	0.8
	1.5s	184.00nm		5.5mb		0.7s	7.15nm		4.7mb		1.2s	35.98nm		5.3mb
RSP	26.30	288 P	28 49.80	-3.0	LPF	31.63	296 eP	29 37.90	-2.4	YKA	73.84	350 eP	34 50.50	-0.9
ENR	26.32	286 P	28 52.05	-0.9		1.5s	146.25nm		5.7mb		1.1s	23.70nm		5.1mb
LSD	26.34	289 P	28 52.67	-0.6	BTH	31.96	286 Pc	29 43.00	-0.4	POF	74.89	201 iPd	34 57.50	-0.3
SBF	26.37	285 eP	28 51.90	-1.5		eS		29 53.00			1.1s	37.97nm		5.3mb
	1.0s	144.00nm		5.6mb		Lg		49 34.00		TOA	75.36	5 P	35 01.40	1.2
STV	26.39	286 P	28 52.46	-1.1	EBR	32.10	282 eP	29 46.00	1.5	KLU	75.98	5 P	35 04.10	0.3
LOMF	26.40	293 P	28 53.24	-0.3	EROO	32.16	282 eP	29 44.30	-0.8	PDB	76.92	9 P	35 09.80	0.8
BSF	26.40	294 eP	28 51.10	-2.5	ESY	32.43	311 eP	29 47.00	-0.3	FFC	78.75	341 eP	35 19.00	-0.2
	1.5s	88.80nm		5.2mb		0.8s	46.00nm		5.5mb		0.8s	24.00nm		5.3mb
DOI	26.40	287 P	28 51.40	-2.3	EBL	32.66	310 eP	29 49.10	-0.2	EDM	82.56	346 eP	35 39.00	-0.4
EMS	26.43	290 ePc	28 53.10	-0.9		0.9s	75.00nm		5.6mb	SES	84.82	344 eP	35 51.00	0.0
PZZ	26.51	287 P	28 52.46	-2.2	EKA	32.70	309 Pd	29 50.00	0.4		1.4s	199.00nm		6.2mb
WTS	26.52	304 eP	28 55.50	1.0	EDI	32.75	311 eP	29 49.50	-0.6	PNT	87.33	349 eP	36 05.00	1.6
						0.9s	31.60nm		5.2mb	JSC	88.45	317 P	36 09.00	0.0
										SXM	88.89	343 ePc	36 12.00	0.8

29d 18h

PRM 89.16 318 P 36 13.40 1.0
 LRM 89.47 344 eP 36 13.00 -1.0
 GMW 89.47 351 P 36 15.20 1.6
 FVM 89.63 325 eP 36 15.00 0.5
 1.0s 18.00nm 5.3mb
 ELC 89.72 324 P 36 14.80 -0.1
 LON 90.14 350 P 36 17.80 1.0
 GLD 93.36 337 P 36 31.90 -0.1
 GOL 93.45 337 P 36 33.10 0.6
 1.3s 26.04nm 5.5mb
 LBFM 95.46 349 P 36 42.80 1.2
 PV09 95.62 339 iP 36 43.10 0.5
 MSU 96.37 341 P 36 46.70 0.8
 ANMO 98.17 336 P 36 55.00 1.0
 1.3s 43.27nm 5.9mb
 ALO 98.18 336 eP 36 55.00 1.0
 1.3s 8.65nm 5.2mb

S.D. = 1.3 on 264 of 300 obs.

• APR 29, 1991 18h 28m 17.57±1.44s
 51.004 N ±23.5km 178.378 W ±11.6km
 DEPTH = 33.0km (normal)
 4.7mb (4 obs.)
 ANDREANOF ISLANDS, ALEUTIAN IS. (7)
 ML 4.6 (PMR). Felt (III) on
 Adok.

ADK 1.38 50 iPc 28 41.10 0.5
 SMY 4.97 293 eP 29 31.50 -0.3
 SDN 11.57 61 e(P) 31 04.80 1.6
 ANM 15.21 22 eP 31 53.50 2.2
 SVW 16.15 42 eP 32 06.30 2.8X
 TTA 16.95 37 eP 32 13.40 -0.1
 IMA 19.64 30 eP 32 43.70 -2.4
 1.1s 18.90nm 4.3mb
 KLU 20.63 47 eP 32 55.00 -1.5
 TOA 20.70 45 eP 32 58.80 1.7
 FBA 21.08 37 eP 32 59.20 -1.7
 0.8s 27.59nm 4.7mb
 INK 27.62 34 eP 34 06.00 2.6X
 MAT 33.99 262 eP 35 01.00 0.9
 1.0s 10.00nm 4.7mb
 LON 36.67 74 eP 35 22.90 0.2
 PNT 36.82 69 eP 35 23.00 -1.0
 0.7s 8.00nm 4.7mb
 TUL 58.75 70 ePc 38 31.80 17.4X
 1.2s 44.40nm

S.D. = 1.6 on 12 of 15 obs.

APR 29, 1991 18h 30m 41.52±0.12s
 42.503 N ±2.5km 43.899 E ±1.6km
 DEPTH = 14.3km (geophysicist)
 5.9mb (93 obs.) 6.0msz (23 obs.)
 WESTERN CAUCASUS (362)

Felt strongly in the Dzhevo-
 Chiaturo-Ambrolauri area, USSR.
 Depth from broadband
 displacement seismograms.

FAULT PLANE SOLUTION: P-Waves

NP1: Strike= 80 Dip=62 Slip= 90
 NP2: 260 28 90

Principal Axes:
 T Val= 1.86 Plg=73 Azm=350
 P 17 170

Comment: The focal mechanism is
 poorly controlled and
 corresponds to reverse
 faulting. The preferred fault
 plane is NP2.

RADIATED ENERGY

No. of sta: 11 Focal mech. M
 Energy 7.4±1.0×10¹² Nm

MOMENT TENSOR SOLUTION

Dep 7 No. of sta: 10

Moment Tensor; Scale 10¹⁸ Nm

Mrr= 1.86 Mtt=-1.86
 Mff= 0.00 Mrt=-0.16
 Mrf= 0.00 Mtf=-0.07

Principal axes:

T Val= 1.86 Plg=88 Azm=185
 N 0.00 0 88
 P -1.87 2 358

Best Double Couple: Mo=1.9×10¹⁸

NP1: Strike= 87 Dip=43 Slip= 90

NP2: 268 47 90

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 22S, 53C
 Centroid Location:
 Origin Time 18:30:47.9 0.7
 Lat 42.38N 0.06 Lon 43.75E 0.06
 Dep 15.0 BDY Half-duration 4.2
 Moment Tensor; Scale 10¹⁸ Nm
 Mrr= 1.55 0.04 Mtt=-1.40 0.05
 Mff=-0.16 0.05 Mrt= 0.14 0.14
 Mrf= 0.33 0.14 Mtf=-0.47 0.05
 Principal Axes:
 T Val= 1.62 Plg=80 Azm=276
 N -0.04 9 70
 P -1.57 4 161
 Best Double Couple: Mo=1.6×10¹⁸
 NP1: Strike=261 Dip=41 Slip= 104
 NP2: 62 50 78

TAB 4.80 156 iPd 31 59.00 3.8X
 KVT 6.04 259 iPn 32 09.70 -2.8X
 GAZ 7.40 226 eP 32 31.70 0.1
 SIM 7.50 292 eP 32 30.00 -3.0X
 iS 34 20.00
 KAS 7.64 265 eP 33 32.00 57.0X
 KER 8.52 162 ePc 32 48.50 1.1
 TEH 8.91 137 eP 31 55.00 -57.8X
 GPA 10.45 262 iP 33 13.70 -0.2
 EYL 10.48 264 eP 33 13.60 -0.8
 BHL 10.75 220 P 33 17.00 -1.1
 HRT 10.78 266 eP 33 16.20 -2.2
 GBZT 10.95 266 eP 33 19.50 -1.2
 ALT 11.01 256 iP 33 22.70 1.1
 YLV 11.06 265 eP 33 20.70 -1.6
 ISK 11.18 268 eP 33 20.80 -2.9X
 HRI 11.24 218 eP 33 24.50 -0.3
 BCK 11.38 248 eP 33 28.00 1.4
 PSN 11.55 281 eP 33 24.00 -4.9X
 CTT 11.62 269 eP 33 26.80 -3.1X
 CFR 11.68 289 ePd 33 29.50 -1.1
 SHMJ 11.69 216 P 33 33.23 2.4
 TLB 11.70 286 ePd 33 25.50 -5.4X
 KHL 11.73 254 iP 33 31.30 0.0
 DST 11.89 261 eP 33 32.00 -1.5
 KCT 11.89 264 eP 33 30.20 -3.3X
 DMK 12.00 272 iP 33 29.80 -5.2X
 BURJ 12.03 214 Pd 33 37.22 1.7
 BURJ 12.09 215 Pc 33 38.15 1.9
 BNT 12.19 265 iP 33 36.00 -1.5
 ELL 12.22 247 eP 33 40.00 2.0
 EDC 12.23 265 eP 33 37.00 -1.0
 SALJ 12.34 215 Pd 33 41.11 1.5
 ZNT 12.43 217 eP 33 41.00 0.3
 MDSJ 12.44 212 Pd 33 42.51 1.5
 KFNJ 12.47 214 P 33 44.26 3.0X
 MASJ 12.57 214 P 33 43.54 0.8
 KGT 12.62 266 eP 33 33.00 -10.2X
 CSTJ 12.74 209 P 33 43.74 -1.3
 MKRJ 12.76 214 Pd 33 46.34 1.1
 JMB 12.79 276 iP 33 42.00 -3.5X
 ISR 12.81 288 ePd 33 46.00 0.2
 QTRJ 12.83 212 Pd 33 47.14 1.0
 LISJ 13.10 214 Pd 33 50.86 1.3
 YER 13.14 251 eP 33 51.00 0.7
 MLR 13.27 289 iPd 33 52.00 0.0
 IZM 13.32 258 eP 33 51.00 -1.5
 ALN 13.44 269 ePd 33 55.88 1.8
 OBN 13.48 342 iPc 33 55.00 0.5
 1.2s 970.00nm 6.7mb
 Z 12s 102.00um 4.7msz
 EZN 13.51 264 iP 33 54.60 -0.4
 MAIO 13.55 112 eP 33 55.00 -0.7
 0.7s 46.70nm 5.5mb
 PVL 13.64 279 iPc 33 54.00 -2.8X
 PRK 13.73 262 eP 33 58.90 1.0
 RDO 13.76 271 eP 33 58.40 0.0
 MTUR 13.86 288 eP 34 00.00 0.3
 PLD 14.22 275 iP 34 01.00 -3.3X
 RZN 14.27 273 iP 34 02.00 -3.2X
 COZ 14.37 288 eP 34 08.50 1.9
 PGB 14.55 277 iP 34 06.00 -2.8X
 MBH 14.63 213 eP 34 09.00 -0.9
 MMB 15.02 273 eP 34 14.00 -0.8
 SRS 15.21 272 ePc 34 14.64 -2.7X
 VTS 15.25 277 iP 34 16.00 -2.0
 PAIG 15.43 267 ePd 34 20.76 0.6
 KKB 15.45 275 iP 34 20.00 -0.4
 SOH 15.45 271 ePc 34 20.44 0.0

THE 15.78 270 ePd 34 27.48 2.8X
 VAY 15.92 273 iP 34 28.50 2.0
 1.5s 270.00nm 5.2mb
 NPS 15.95 249 eP 34 29.80 2.8X
 ATH 16.05 260 eP 34 33.00 4.8X
 GRG 16.12 272 ePd 34 30.28 1.1
 LIT 16.26 269 ePc 34 31.60 0.7
 UZH 16.29 299 iP 34 32.00 0.8
 SKO 16.64 276 eP 34 35.00 -0.7
 Z 13s 23.47um
 N 11s 22.20um
 E 11s 23.08um
 iS 34 37.30
 LR 44 35.00
 AGG 16.70 265 ePd 34 36.60 0.1
 KZN 16.74 270 eP 34 38.00 0.9
 FNA 16.92 272 ePc 34 39.28 0.0
 BEO 17.11 286 eP 34 43.00 1.4
 VLI 17.14 257 eP 34 42.80 0.8
 OHR 17.27 273 eP 34 41.20 -2.5X
 1.9s 1617.00nm 5.8mb
 KKS 17.38 277 eP 34 48.00 3.1X
 PVY 17.62 278 iPd 34 50.80 2.7X
 IVA 17.64 279 iPd 34 50.88 2.6X
 LSK 17.65 270 eP 34 50.00 1.6
 PSZ 17.73 296 iP 34 52.90 3.5X
 SPC 17.74 300 iP 34 49.60 0.0
 PLE 17.96 281 iPd 34 55.05 2.8X
 LACI 17.97 275 iPd 34 54.50 2.2X
 IGT 18.02 268 ePd 34 54.00 1.1
 TPE 18.05 271 eP 34 56.60 3.3X
 TTG 18.17 278 iPd 34 58.66 4.0X
 eS 38 28.00
 ULC 18.25 277 iPd 34 55.73 -0.1
 BUD 18.25 294 e(P) 34 56.00 0.3
 VLS 18.27 264 eP 34 56.60 0.5
 NKY 18.30 279 iPd 34 59.31 2.7X
 UZD 18.47 291 iP 34 57.80 -0.7
 BDV 18.51 278 iPd 34 58.70 -0.2
 BRY 18.62 280 iPd 35 01.08 0.6
 HCY 18.72 278 iPd 35 02.63 1.1
 SRO 18.77 295 iP 35 03.50 1.4
 LCI 19.56 272 P 35 10.30 -1.3
 ZST 19.62 296 iP 35 11.50 -0.8
 BRT 19.98 274 P 35 14.30 -1.8
 HVAR 20.11 281 iP 35 16.30 -1.2
 VKA 20.15 296 eP 35 14.00 -3.8X
 9.0s *****nm 6.3mb X
 Z 13s 27.20um 5.8msz
 i 35 18.70
 i 39 12.20
 LR 44 39.00
 BAI 20.17 275 P 35 16.50 -1.6
 ZAG 20.26 289 eP 35 17.50 -1.4
 PTJ 20.27 289 eP 35 15.90 -3.4X
 GAR 20.29 91 iP 35 20.00 0.5
 iS 39 11.00
 iSS 39 51.00
 i 41 08.00
 ORI 20.74 273 P 35 24.00 0.0
 VBY 20.77 288 ePc 35 22.80 -1.5
 TDS 20.93 272 P 35 25.40 -0.6
 GRI 21.13 269 P 35 27.23 -0.8
 1.2s 304.00nm 5.6mb
 FG4 21.16 276 P 35 28.12 -0.2
 LJU 21.27 290 ePc 35 28.00 -1.4
 i 35 32.00
 FG2 21.27 278 P 35 30.00 0.6
 CEY 21.35 289 e(P)c 35 28.00 -2.2
 RIY 21.39 288 eP 35 30.30 -0.3
 NUR 21.50 334 iP 35 30.50 -1.0
 1.5s 1500.80nm 6.2mb
 Z 16s 60.70um 6.1msz
 e 39 22.00
 e 39 42.00
 LR 43 42.00
 PRU 21.54 300 Pc 35 32.70 0.6
 2.0s 527.30nm 5.6mb
 Z 14s 33.30um 5.9msz
 S 39 32.00
 KMR 21.59 295 iP+ 35 33.40 0.8
 VOY 21.71 290 eP 35 32.80 -1.2
 i 35 34.10
 GMB 21.76 268 P 35 33.56 -1.0

TRI	1.6s	652.10nm	5.8mb	ZLA	25.45	294 eP+	36	10.30	0.0	1.0s	200.10nm	5.8mb	
	21.81	289 ePc	35 33.60 -1.2	TNS	25.46	300 ePd	36	11.80	1.4		epPd	36 42.74 14kmX	
		iS	39 36.00	HFS	25.49	324 eP	36	10.70	0.2		eS	41 29.86	
		iLR	41 08.00		1.2s	891.30nm		6.3mb		KTK1	28.69	345 eP	36 39.31 -0.3
DUI	21.82	278 P	35 35.10 0.0	Z	18s	59.12um		6.2Msz		SSF	28.80	293 eP	36 37.10 -3.7X
KHC	22.05	298 P	35 37.50 0.3			e	36	18.20			1.1s	76.90nm	5.4mb
	1.5s	375.00nm	5.6mb			LR	43	52.00		PLDF	28.85	291 P	36 41.18 -0.2
Z	13s	29.50um	5.9MszX	PCP	25.60	287 P	36	13.01	1.3	AVF	28.93	293 eP	36 38.60 -3.4X
N	13s	12.50um		PGF	25.61	282 P	36	12.16	0.2	AGO	29.18	291 P	36 43.55 -0.7
E	13s	14.50um		FEL	25.70	294 eP	36	11.47	-1.2	LBL	29.22	289 P	36 44.37 -0.2
		S	39 46.00	CKI	25.80	287 P	36	14.00	0.5	MOL	29.26	326 eP	36 46.61 1.9
ATN	22.06	268 P	35 38.50 1.1	MMK	25.83	290 ePc	36	12.60	-1.5	HYA	29.26	323 eP	36 48.20 3.4X
BRG	22.06	303 iPd	35 37.40 0.1	STR	25.85	296 P	36	13.88	0.0	PYM	29.30	291 P	36 45.18 -0.3
	2.0s	1150.00nm	6.0mb	FIN	25.88	286 P	36	13.62	-0.7	BGF	29.31	292 eP	36 42.00 -3.4X
		eS	39 42.00	GWf	25.95	297 P	36	14.67	-0.2		1.3s	137.20nm	5.6mb
KBA	22.08	292 iPc	35 37.60 -0.2	ROB	26.11	286 P	36	15.98	-0.5	BER	29.37	321 eP	36 46.40 0.6
	1.6s	961.00nm	6.0mb	WLS	26.13	296 P	36	16.21	-0.4	ASK	29.47	321 eP	36 47.50 0.8
		i	35 54.90	CDF	26.18	296 eP	36	13.60	-3.5X	MAF	29.54	292 eP	36 44.50 -3.0X
		i	40 12.80		1.3s	126.35nm		5.4mb		TCF	29.78	292 eP	36 46.80 -2.9X
QUE	22.19	116 eP	35 38.60 -0.3	CDf	26.18	296 P	36	17.41	0.3	SUE	29.87	322 eP	36 50.20 0.0
		e(S)	40 00.00	DIX	26.21	290 ePc	36	17.00	-0.7	FOO	29.94	323 eP	36 51.80 1.0
KAF	22.25	338 eP	35 40.80 1.8	MOF	26.29	294 P	36	18.48	0.4	FRO	30.07	323 eP	36 52.99 1.0
RFI	22.25	277 P	35 41.00 1.8	BNS	26.32	301 ePc	36	18.20	-0.1	TRO	30.09	343 eP	36 51.66 -0.4
	1.6s	6318.80nm	6.8mb		1.5s	438.00nm		5.9mb		CAF	30.10	289 eP	36 49.60 -2.9X
SDI	22.28	278 P	35 39.90 0.2	SAOF	26.38	286 P	36	19.09	0.1		1.1s	59.85nm	5.3mb
AQU	22.46	280 P	35 42.40 1.0	RSP	26.42	288 P	36	17.21	-2.2	NDI	30.19	106 iPc	36 54.00 0.6
FVI	22.47	291 P	35 41.30 -0.1	ENR	26.44	286 P	36	18.44	-1.1		1.4s	395.35nm	6.1mb
AZI	22.50	279 P	35 43.00 1.3	LSO	26.46	289 P	36	18.85	-1.0	LSF	30.25	292 eP	36 50.70 -3.1X
WET	22.51	298 iPd	35 43.10 1.3	AUTN	26.47	286 P	36	19.96	-0.1	LOF	30.32	338 eP	36 48.78 -5.4X
		iS	39 54.30	SBF	26.49	285 eP	36	17.50	-2.5	RJF	30.41	290 eP	36 52.60 -2.6X
FRU	22.53	79 iP	35 42.00 -0.1	STV	26.51	286 P	36	18.34	-1.8		1.8s	328.00nm	5.9mb
		e(S)	39 56.00	LOMF	26.52	293 P	36	19.53	-0.7	Z	18s	22.50um	5.9Msz
ARV	22.60	283 P	35 42.30 -0.5	BSF	26.52	294 eP	36	16.60	-3.7X	LPO	30.76	289 eP	36 55.50 -2.8X
MNO	22.71	268 P	35 45.70 1.7		1.1s	85.45nm		5.3mb			1.6s	143.05nm	5.6mb
CLL	22.73	303 iP	35 44.00 0.1	DOI	26.52	287 P	36	18.60	-1.7	ESEL	30.79	279 eP	36 58.70 0.1
	1.8s	1550.00nm	6.2mb	EMS	26.55	290 ePc	36	19.60	-1.0	ARO	30.87	182 eP+	37 00.00 0.4
Z	14s	29.00um	5.9MszX	REVF	26.56	285 P	36	19.53	-1.1	LFF	31.02	289 eP	36 57.60 -2.9X
		eS	39 57.00	AURF	26.56	286 P	36	20.74	0.1		1.3s	148.00nm	5.7mb
VVI	22.74	290 P	35 45.30 1.2	TOUF	26.60	286 P	36	21.72	0.6	LDF	31.08	297 eP	36 58.00 -3.1X
BRN	22.84	306 eP	35 48.50 3.6X	SOD	26.62	345 iP	36	21.60	0.7		1.5s	156.70nm	5.7mb
PZI	22.88	266 P	35 44.30 -1.3			i	36	27.20		MLS	31.21	286 P	37 00.48 -1.8
RSM	22.90	284 P	35 46.80 1.2	PZZ	26.62	287 P	36	17.52	-3.8X	FLN	31.30	297 eP	36 59.90 -3.1X
MNS	22.98	280 P	35 47.20 0.7	WTS	26.65	304 eP	36	23.00	1.8		1.1s	70.80nm	5.5mb
RMP	23.08	279 P	35 48.50 1.1	LPG	1.0s	190.00nm		5.7mb	Z	18s	27.50um	6.0Msz	
RDP	23.08	279 P	35 48.60 1.1		26.74	289 eP	36	19.50	-3.0X	MFF	31.34	293 eP	36 59.80 -3.6X
GIB	23.18	269 P	35 48.40 -0.1	LPL	1.2s	16.35nm		4.6mb X			1.0s	48.00nm	5.3mb
CTI	23.27	290 P	35 49.70 0.3	RRL	26.75	289 eP	36	19.60	-2.9X	GRR	31.59	296 eP	37 02.10 -3.4X
CRE	23.30	284 P	35 50.80 1.2	RSL	26.79	288 P	36	21.52	-1.4	WMO	31.70	72 ePc	37 06.69 0.0
SFI	23.33	284 P	35 51.10 1.4	HAU	26.80	290 P	36	21.92	-1.0		1.0s	200.00nm	6.0mb
PGD	23.43	284 P	35 52.70 1.7		26.81	295 eP	36	19.20	-3.6X	N	13s	53.50um	
MOX	23.49	301 eP+	35 52.50 1.2		1.1s	168.00nm		5.6mb	E	13s	51.70um		
	1.9s	534.00nm	5.8mb	Z	18s	27.50um		5.9Msz			ed	37 09.84	
Z	13s	24.90um	5.9MszX	WIT	26.83	306 eP	36	24.00	1.1		epPd	37 11.49 17kmX	
N	18s	38.30um		BNI	26.85	288 P	36	23.10	-0.2		esPd	37 12.32	
E	20s	15.90um		CALN	26.90	285 P	36	24.12	0.3	EPF	31.72	286 eP	37 03.90 -2.9X
		iS	40 08.00	WLF	26.92	299 iPd	36	25.79	2.1		1.0s	34.00nm	5.2mb
FUR	23.51	295 eP	35 51.30 -0.2	NB2	27.00	325 P	36	23.50	-1.0	LPF	31.75	296 eP	37 03.40 -3.6X
	1.8s	1686.00nm	6.3mb	MEM	27.04	301 P	36	24.70	-0.1		1.6s	422.90nm	6.1mb
SOTA	23.54	293 iPc	35 51.30 -0.7	ENN	27.10	301 eP	36	26.00	0.6	BTH	32.08	286 iPc	37 10.00 0.1
	1.4s	1315.00nm	6.3mb		1.0s	86.00nm		5.4mb			iPp	37 14.50 16kmX	
GRF	23.63	299 ePc	35 53.10 0.4	FRF	27.11	285 eP	36	22.90	-2.6X		iS	37 19.70	
	2.0s	835.00nm	5.9mb	KONO	27.11	321 ePc	36	25.10	-0.3		iPP	38 26.50	
OGA	23.67	292 iPd	35 53.40 0.0			ec	36	27.50		EBR	32.21	282 eP	37 08.00 -3.1X
UPP	23.68	326 iP	35 54.40 1.4			epPd	36	30.15 18kmX		EROO	32.27	282 eP	37 10.60 -1.0
		i	36 02.00			esPd	36	33.38		EGRA	32.40	285 eP	37 08.00 -4.7X
		iS	40 08.00			eS	36	24.80	-2.8X	EKA	32.83	310 P	37 15.00 -1.3
FAI	23.70	267 P	35 48.74 -4.7X	LRG	27.33	285 eP	36	24.80	-2.8X		1.9s	366.60nm	6.0mb
	1.2s	450.40nm	5.9mb		1.0s	152.00nm		5.7mb		ACU	33.64	278 eP	37 25.50 1.9
FIR	23.77	284 eP	35 56.50 2.4X	Z	22s	25.00um		5.7Msz		ECHE	33.67	280 eP	37 24.70 0.9
		iS	40 18.00	DBN	27.66	304 iP+	36	31.00	0.6	ECRI	33.85	286 iPd	37 25.80 0.4
MAO	24.08	281 P	35 58.54 1.4		Z	20s	12.00um	5.5Msz		ETOR	34.05	283 eP	37 25.20 -2.0
	1.7s	4320.40nm	6.8mb	DOU	27.93	299 P+	36	34.20	1.2	EALH	34.62	278 eP	37 32.40 0.4
SAL	24.09	289 P	35 58.65 1.6			S	41	21.00		ETA	34.64	305 eP	37 33.00 1.0
	1.8s	5011.30nm	6.8mb	UCC	28.10	301 P+	36	34.00	-0.4	ECP	34.77	304 eP	37 37.00 3.9X
MME	24.11	285 P	35 59.10 1.4			S	41	34.00		POO	34.86	124 iPd	37 34.40 0.2
CVT	24.20	269 P	36 00.20 1.9	SNF	28.14	300 P	36	36.50	1.7		iS	48 06.00	
	1.1s	444.70nm	6.0mb	LBF	28.49	293 eP	36	34.20	-3.8X	EVIA	35.12	280 iPd	37 37.00 0.6
BDI	24.20	285 P	35 59.20 0.8		1.0s	75.00nm		5.4mb		EHUE	35.49	278 eP	37 38.10 -1.5
ERC	24.23	270 P	35 59.30 0.7	LOR	28.54	294 eP	36	34.50	-4.0X	ENIJ	35.54	277 iPc	37 39.40 -0.5
OSS	24.28	292 ePc	35 58.80 -0.5		1.3s	137.20nm		5.6mb		GUD	35.62	284 eP	37 39.00 -1.7
KSH	24.33	86 eP	36 02.00 2.2	Z	22s	15.00um		5.5Msz		TOL	35.80	282 ePc	37 39.59 -2.5
	E	12s	89.30um</										

29d 18h

AFC	36.41	278	iPd	37	47.10	-0.3			2.0s	510.00nm	6.1mb			ePP	40	32.00							
ECOG	36.41	278	eP	37	47.10	-0.3			Z 20s	10.00um	5.8Msz			PP	42	37.00							
DMN	36.48	101	P	37	48.60	0.4			N 14s	2.20um				eS	48	23.00							
	1.0s	331.00nm				6.1mb			E 14s	7.40um			NPA	57.46	185	eP	40	29.50	-2.7X				
KKN	36.51	100	P	37	48.54	0.2				pP	39	47.50	13kmX	PTZ	57.64	194	iP	40	31.50	-2.1			
	1.1s	239.00nm				6.0mb				PP	41	42.00				i	41	17.50					
EGUA	36.59	277	eP	37	48.20	-0.5				iS	47	02.00		BS1	58.44	114	eP	40	32.00	-7.2X			
PKI	36.73	100	P	37	50.66	0.3				sS	47	08.00		NJ2	58.77	74	Pc	40	40.50	-0.8			
	0.8s	193.00nm				6.0mb				SS	50	40.00			1.5s	200.00nm			6.0mb				
GUN	36.88	99	P	37	51.94	0.3			HIA	51.16	55	ePc	39	45.87	0.0	Z	21s	5.00um		5.6Msz			
EMON	37.01	289	eP	37	52.20	0.0				ec	39	48.35			N	18s	13.90um						
ERUA	37.19	288	eP	37	54.30	0.6				epPd	39	50.42	15kmX		E	15s	9.20um						
EPLA	37.20	284	eP	37	52.30	-1.6				ePcP	41	00.77					S	48	48.00				
MAL	37.25	278	iPd	37	54.00	-0.3				ePP	41	42.98		MDJ	59.28	56	eP	40	45.00	0.3			
EHOR	37.43	280	eP	37	54.30	-1.4				eS	47	08.76			1.5s	90.00nm			5.7mb				
EPRU	37.76	278	eP	37	57.60	-1.0				eScS	49	39.40			Z	13s	13.00um			6.2MszX			
LIJA	37.92	278	eP	37	56.00	-4.0X			TIY	51.34	71	Pc	39	47.40	0.0	N	12s	13.00um					
STS	38.03	289	eP	38	01.80	1.1				7.0s	2040.00nm		6.2mb X		E	12s	10.20um						
EJIF	38.14	278	eP	38	01.10	-0.7				Z 21s	17.00um		6.0Msz				iS	48	50.00				
GIBL	38.34	279	eP	38	02.00	-1.5				N 15s	13.60um			QIZ	59.78	91	eP	40	47.60	-0.9			
EZAM	38.36	288	eP	38	03.50	-0.1					PP	41	50.00			7.5s	2800.00nm			6.5mb X			
KBS	38.57	351	eP	38	06.00	1.1				S	47	08.00			N	15s	3.60um						
EVAL	38.61	280	eP	38	04.40	-1.3			YAK	51.76	37	eSP	39	48.50	-1.6	E	16s	6.30um					
PTO	38.63	286	eP	38	03.50	-2.3				ePSP	41	02.00					PcP	41	37.00				
			e(S)	43	55.00					ePP	41	52.00					PP	43	02.00				
HYB	38.65	120	iPc	38	06.50	0.3				ePPP	42	39.00					S	48	56.00				
	1.4s	475.00nm				6.0mb				ePcS	45	07.00					SS	49	10.00				
			iS	44	06.00					eS	47	09.00		GZH	59.90	85	Pc	40	50.00	0.8			
IFR	39.19	273	iP	38	09.00	-1.8				ePS	47	28.00			6.0s	3300.00nm			6.6mb X				
			i	38	11.00					eSSS	52	32.00			Z	18s	9.10um			6.0Msz			
LIS	39.91	283	eP	38	15.00	-1.4			CHG	51.89	99	ePc	39	50.30	-1.4	N	15s	5.40um					
GBA	40.83	125	Pc	38	23.30	-0.9				0.8s	85.82nm		5.7mb		E	14s	7.60um						
	0.8s	48.80nm				5.3mb				eS	47	10.00					S	49	05.00				
AKU	40.85	326	iPc	38	25.70	1.9			BJI	52.83	67	ePc	39	58.24	-0.2			eP	40	54.90	-1.2		
	1.0s	172.00nm				5.7mb				2.0s	360.00nm		6.0mb		SSE	60.95	73	Pc	40	56.00	-0.3		
	Z 22s	38.52um				6.2Msz				N 14s	20.90um				1.7s	280.00nm			6.1mb				
			i	40	05.40					E 15s	14.10um				Z	20s	10.20um			6.0Msz			
AVE	40.98	275	iP	38	24.00	-1.3				ec	40	00.80			N	12s	4.60um						
			i	38	44.50					epPd	40	03.04	16kmX		E	13s	3.50um						
GTA	41.69	75	Pc	38	32.40	1.1				ePcP	41	09.91					PP	43	12.00				
	1.2s	60.00nm				5.2mb				ePP	41	59.85					S	49	16.00				
	Z 16s	15.70um				6.0MszX				eS	47	32.71					ScS	50	48.00				
	E 12s	14.80um								e	49	57.06					eP	40	57.70	1.1			
			PP	38	37.30				BDT	52.94	101	eP	40	01.00	1.5			eS	49	22.00			
			PP	40	13.00					0.8s	135.00nm		5.9mb		HKC	60.98	85	eP	40	58.00	-1.5		
TIO	42.03	271	iP	38	33.00	-1.2			GYA	53.01	86	iPc	40	00.00	-0.2			eP	40	58.00	-1.5		
			i	38	47.00					Z 26s	6.10um		5.5MszX		FRB	61.49	332	eP	40	58.00	-1.5		
			i	39	17.50					N 20s	16.60um				QZH	62.64	80	Pc	41	06.50	-1.2		
REY	42.45	324	eP	38	39.10	2.2				E 20s	13.60um				7.0s	1850.00nm			6.4mb X				
DAG	42.84	342	iPd	38	39.70	-0.3					PP	42	04.00			Z 15s	11.30um			6.2MszX			
	1.4s	674.42nm				6.2mb				S	47	32.00			N 14s	9.26um							
KOD	43.50	128	eP	38	47.00	0.5			KHT	54.26	103	iPc	40	08.90	-0.3			PP	43	28.00			
LZH	45.99	77	ePc	39	06.91	0.8			NST	54.79	101	eP	40	13.80	0.7			S	49	40.00			
	1.6s	250.00nm				5.9mb			TIA	55.35	70	eP	40	17.20	0.1			epPd	41	10.40	0.0		
	Z 16s	26.50um				6.3MszX				7.0s	2900.00nm		6.4mb X				S	49	40.00				
	E 10s	11.30um								Z 22s	9.30um		5.8Msz		BUL	63.91	196	eP	41	14.40	-1.8		
			ed	39	09.89					N 17s	16.70um				0.8s	20.90nm			5.4mb				
			PP	39	16.50					E 16s	8.80um						7	eP	41	26.80	0.8		
			SP	39	19.00						PcP	41	11.50		BRW	65.54	7	eP	41	30.00	-1.2		
			PcP	40	43.00						P	40	18.34	-3.1X	KGM	66.24	114	eP	41	32.00	-0.6		
			PP	40	55.00						77.00nm		5.8mb		SHK	66.45	110	ePd	41	37.00	1.9		
			eS	45	56.06						55.96	244	P	40	17.84	-3.8X	MAJO	66.87	64	eP	41	48.70	-1.2
			SS	46	05.00						0.9s	68.50nm		5.7mb			ePc	41	50.77				
			i	49	10.62						56.25	244	P	40	19.94	-3.8X		ec	41	52.92	14kmX		
BTO	48.37	69	P	39	25.00	0.3					0.8s	105.00nm		5.9mb			epPd	41	53.38	14kmX			
	7.0s	3500.00nm				6.5mb X					56.36	101	eP	40	25.20	0.7		eS	50	54.69			
	N 17s	39.20um							PCT	56.37	78	Pc	40	24.10	-0.3			ePS	51	19.96			
	E 14s	14.70um							WHN	56.37	78	Pc	40	24.10	-0.3			eScS	51	58.69			
			PP	41	21.00					1.5s	100.00nm		5.6mb		MAT	69.25	59	iPc+	41	48.30	-1.6		
CD2	48.45	83	eP	39	25.50	0.1				Z 20s	7.50um		5.8Msz		1.5s	97.22nm			5.7mb				
	1.6s	300.00nm				6.1mb				N 14s	8.10um				Z 20s	8.16um			6.0Msz				
			S	46	25.00					E 14s	9.30um						eS	50	57.00				
TIK	48.78	25	ePc	39	27.00	-0.2					iS	48	17.00		WIN	69.31	206	eP	41	47.00	-3.5X		
			eS	46	37.00						61	iPc	40	25.00	-3.0X			135.00nm		6.1mb			
HHC	49.32	68	P	39	31.60	-0.4					Z 14s	24.30um		6.5MszX		BAG	69.36	86	ePc+	41	50.00	-1.0	
	5.0s	2700.00nm				6.5mb X				N 15s	14.00um						eS	51	02.00				
	N 13s	18.20um								E 13s	15.00um						ePc	41	49.16	-1.8			
	E 14s	15.60um									PcP	41	17.00				ec	41	51.56				
			PP	41	28.00						PP	42	36.00				epPd	41	53.38	14kmX			
			S	46	44.00						S	48	24.00				eP	41	50.00	-0.8			
XAN	50.63	77	iPc	39	42.00	0.0			DL2	57.07	65	eP	40	28.00	-1.3			49.00nm		5.7mb			
	1.0s	100.00nm				5.7mb				1.0s	160.00nm		6.0mb		PET	69.55	36	eP	41	48.00	-3.4X		
	N 14s	12.80um									eS	48	20.00		ANM	70.82	13	eP	41	59.60	0.6		
	E 14s	13.20um									59	Pc	40	28.30	-1.3			7	eP	41	59.60	-0.1	
			S	46	57.60						1.0s	40.00nm		5.4mb		IMA	70.91	7	eP	41	59.60	-0.1	
KMI	50.87</																						

		epPd	42	13.66	14kmX		Z	19s	7.29um	6.2Msz	PWA	1.24	350	ePc	06	29.10	-0.8		
		eHPP	44	52.48					ec	44	22.25			eS	06	45.97			
		ePP	44	53.80					epPd	44	24.65	13kmX	CNPM	1.28	226	eP	06	30.08	-0.4
		eS	51	42.30					eHPP	48	18.78		HOM	1.35	236	eP	06	29.58	-1.8
FBA	72.55	5 eP	42	09.30	0.0				ePP	48	20.76			S	06	48.17			
	1.2s	178.03nm			6.0mb				eSKS	55	31.60		GHO	1.37	10	ePd	06	30.90	-0.9
TTA	73.71	9 eP	42	17.00	0.8				ePS	57	15.34		RDT	1.47	277	ePc	06	32.26	-1.0
YKA	73.94	350 eP	42	15.80	-1.6		ALO	98.29	336 eP	44	20.50	0.5		eS	06	51.45			
	1.3s	75.80nm			5.6mb			1.5s	39.58nm			5.8mb	SML	1.48	21	ePd	06	32.51	-0.9
MIM	74.17	317 P	42	19.60	0.5		Z	20s	7.80um			6.2Msz	SPU	1.48	302	ePc	06	32.57	-0.9
POF	74.85	202 iPc	42	22.50	-0.5		CMB	98.57	348 eP	44	16.50	-4.5X		iS	06	52.06			
	1.5s	250.00nm			6.0mb				ePP	48	13.50		VZW	1.55	65	ePd	06	33.03	-1.4
TOA	75.43	5 eP	42	27.30	1.2		FRI	99.48	347 eP	44	25.70	0.6	CRP	1.57	304	ePc	06	34.30	-0.5
TSM	75.50	98 ePc	42	28.50	1.3				ePP	48	28.30		DFR	1.61	277	ePc	06	34.20	-1.1
SVW	75.53	10 eP	42	27.80	1.1		LLA	100.05	348 ePd	44	22.20	-5.3X		eS	06	54.67			
PMR	75.72	6 eP	42	27.30	-0.4		CLC	100.24	345 ePd	44	29.00	0.6	CKL	1.61	300	ePc	06	34.55	-0.8
	1.7s	199.40nm			5.9mb		PRS	100.40	348 e(Pd)	44	22.20	-6.9X	RSO	1.64	273	iPc	06	34.90	-1.0
BNH	75.74	318 P	42	28.80	0.7		ISA	100.56	345 ePd	44	25.00	-4.9X	RS2	1.64	273	iPc	06	34.96	-0.9
SMY	75.87	29 P	42	29.40	0.7		GSC	100.58	344 ePd	44	33.00	3.0X	RDN	1.65	274	iPc	06	34.63	-1.2
	1.6s	327.87nm			6.1mb		SBB	101.38	345 ePd	44	36.00	2.5X		eS	06	55.29			
Z	18s	9.52um			6.1Msz		TPC	101.58	343 ePd	44	33.00	-1.4	NCG	1.65	308	eP	06	35.29	-0.6
KLU	76.05	5 P	42	30.00	0.3		MWC	101.87	345 ePd	44	26.00	-9.9X	RED	1.65	271	ePc	06	34.86	-1.0
PDB	76.98	9 P	42	35.20	0.4		GLA	102.32	342 ePd	44	40.00	2.3		eS	06	55.61			
CER	78.80	201 iPc	42	45.00	-0.1		PLM	102.48	344 ePd	44	35.00	-3.6X	BGL	1.67	301	ePc	06	35.59	-0.6
FFC	78.86	341 eP	42	45.00	-0.2		STK	115.98	110 ePKP	49	23.80	-1.5	RDW	1.67	273	ePc	06	35.21	-1.0
	1.6s	357.00nm			6.2mb			2.3s	2.20nm				VLZ	1.68	64	eP	06	35.00	-1.2
DAV	79.12	90 eP	42	40.00	-7.3X		ZOBO	116.98	272 PKP	49	27.00	-1.4	NCT	1.73	276	ePc	06	35.91	-1.1
TBR	79.75	317 P	42	50.80	0.5		TOO	121.79	114 ePKP	49	35.00	-1.3	SCM	1.74	35	eP	06	36.43	-0.8
TRT	79.85	110 ePd	42	45.50	-5.7X		TAU	125.65	118 ePKP	49	43.00	-0.5	SKT	1.85	328	eP	06	38.24	-0.5
PNJ	79.89	317 iP	42	51.50	0.5		MDZ	127.18	257 e(PKP)	49	47.30	0.4		S	07	00.63			
GMTN	79.93	317 iP	42	51.50	0.3		DZM	128.35	86 iPKPc	49	50.40	1.0	CUT	2.02	349	eP	06	39.15	-2.0
LVNJ	80.27	317 P	42	52.70	-0.4		SPA	132.31	180 ePKP	49	56.00	0.3	KLU	2.02	57	ePd	06	40.03	-1.3
SIT	80.81	360 e(P)	42	58.40	2.9X			1.2s	33.80nm				TOA	2.31	42	eP	06	44.92	-0.4
	1.7s	254.20nm			6.0mb		SNZO	143.78	105 PKP	50	12.00	-5.3X	PDB	2.46	257	eP	06	46.54	-0.9
WVLY	80.84	321 P	42	56.80	0.7				PP	53	32.00		TZL	2.53	48	eP	06	48.17	-0.3
SCP	81.80	319 ePc	43	00.95	-0.2		PMO	150.77	24 iPKP	50	38.90	9.7X	HUR	2.56	358	eP	06	48.54	-0.3
		ec	43	02.69				1.2s	135.00nm			SDG	2.82	40	eP	06	51.22	-1.2	
EDM	82.66	346 ePc	43	05.00	-0.4		TPT	150.84	23 iPKP	50	38.80	9.5X	GLB	2.93	67	ePc	06	52.29	-1.8
CLE	82.98	322 iP	43	08.20	0.9			1.2s	125.00nm			RND	3.00	5	eP	06	54.85	-0.3	
CVL	84.28	318 P	43	13.80	-0.1		VAH	151.07	24 iPKP	50	39.10	9.4X	PAX	3.18	35	eP	06	56.57	-1.1
SES	84.92	344 eP	43	16.00	-1.0			1.2s	55.00nm			TGL	3.28	81	eP	06	56.86	-2.3	
	1.5s	643.00nm			6.6mb		RUV	151.10	23 iPKP	50	39.60	9.9X	BALM	3.54	77	eP	07	00.55	-2.3
		pP	43	38.00	81kmX			1.2s	70.00nm										
BLA	85.84	319 P	43	21.60	-0.2			S.D. = 1.0	on 352 of 449 obs.										
	1.8s	45.45nm			5.4mb														
PNT	87.42	349 ePc	43	29.00	-0.3														
MCW	88.45	351 P	43	33.60	-0.7														
PGC	88.55	352 eP	43	35.00	0.4														
TKL	88.70	320 P	43	35.40	-0.3														
CRZF	88.83	175 ePd	43	45.00	9.4X														
		ePP	46	54.00															
		eS	54	27.00															
		eSS	00	18.00															
SXM	89.00	343 ePc	43	37.10	-0.1		IGT	1.18	335 eP	03	24.10	-0.3	TAB	4.86	155	eP	08	32.00	13.2X
LRM	89.57	344 eP	43	40.10	0.1				eS	03	41.50		BBTK	8.66	256	eP	09	17.00	4.9X
RSCP	89.60	321 P	43	45.00	5.1X		AGG	1.20	62 eP	03	23.70	-1.2	VRI	12.64	291	eP	10	15.00	8.7X
	22s	6.35um			6.0Msz				eS	03	41.60		MLR	13.13	289	iPc	10	13.50	0.6
FVM	89.76	326 eP	43	40.10	-0.5		LIT	2.02	35 eP	03	37.60	0.7		e	25	38.00			
	1.5s	85.37nm			5.8mb				eS	04	05.00		OBN	13.44	342	eP	10	15.00	-1.8
CCM	90.04	326 ePc	43	41.69	-0.2		FNA	2.34	8 eP	03	41.50	-0.1	COZ	14.23	288	eP	10	30.00	2.5
		ec	43	43.43					eS	04	12.90		SKO	16.49	276	eP	10	56.00	-0.6
		epPd	43	45.75	13kmX		PAIG	2.56	54 eP	03	45.60	0.9		i	11	03.00			
		eSKS	54	09.13			OHR	2.65	357 eP	03	49.50	3.5X	OHR	17.12	273	eP	11	05.20	0.6
		eS	54	37.60			GRG	2.72	24 eP	03	46.90	-0.2	BBU	17.16	159	eP	11	09.00	3.9X
LON	90.23	350 ePc	43	41.84	-0.9			S.D. = 1.0	on 6 of 7 obs.					0.6s	27.00nm				4.6mb
		ec	43	43.91															
		epPd	43	46.56	15kmX														
GLD	93.47	337 P	43	59.00	1.0														
	1.5s	93.75nm			6.0mb														
	20s	10.50um			6.3Msz														
GOL	93.56	337 P	43	58.60	0.1														
	1.5s	105.35nm			6.0mb														
	18s	8.45um			6.2Msz														
TUL	93.71	328 iPc	43	58.20	-0.6														
	1.2s	175.10nm			6.3mb														
	19s	5.93um			6.1Msz														
		LR	17	32.20															
DAU	94.46	341 P	44	02.60	0.0		SEW	0.33	180 iPd	06	15.51	-0.5	NUR	21.44	334 iP	11	54.90	1.1	
DUG	95.02	342 P	44	06.10	1.1				eS	06	21.45			0.7s	22.70nm				4.7mb
	1.3s	35.94nm			5.6mb		SLKM	0.39	282 iPc	06	16.61	-0.4	DUI	21.67	278 P	11	55.90	-0.6	
LBFM	95.55	349 P	44	08.30	0.8		PMS	0.82	356 iPd	06	22.68	-1.3	KHC	21.92	298 P	12	02.70	3.9X	
PV09	95.73	339 iP	44	09.00	0.5				eS	06	33.20			1.2s	10.00nm				4.1mb
MIN	96.50	349 ePd	44	12.00	0.2		KNIM	0.85	95 iPc	06	22.93	-1.4	BRG	21.94	303 eP	11	58.90	-0.1	
ORV	97.26	349 eP	44	14.80	-0.2		LTI	0.89	116 eP	06	23.58	-1.2		1.1s	11.00nm				4.2mb
ANMO	98.29	336 ePc	44	20.35	0.4		NKA	0.94	290 ePc	06	26.06	0.5	KBA	21.94	292 e(P)	11	58.00	-1.3	
							BRKL	0.98	228 eP	06	24.70	-1.6		1.0s	11.60nm				4.3mb
							MTU	1.00	116 eP	06	25.15	-1.3	KAF	22.20	338 eP	12	02.10	0.7	
							NNL	1.00	248 iPc	06									

29d 19h

SFI	23.18	284	P	12	13.30	2.1
MOX	23.36	302	e(P)	12	20.00	7.0X
GRF	23.50	299	eP	12	16.00	1.6
UPP	23.60	326	iP	12	24.40	9.2X
MME	23.97	285	P	12	21.80	2.6
HFS	25.41	324	eP	12	33.00	0.4
	0.8s	15.40nm				4.7mb
Z	15s	2.43um				4.8MsZx
		e		12	41.40	
PGF	25.47	282	eP	12	32.30	-1.1
	1.0s	20.00nm				4.8mb
FEL	25.56	294	eP	12	43.09	8.8X
SBF	26.34	285	eP	12	42.90	1.3
	1.0s	20.00nm				4.8mb
SOD	26.59	345	eP	12	48.00	4.5X
		i		12	58.00	
LPL	26.60	289	eP	12	42.20	-1.9
	1.1s	9.75nm				4.4mb
NB2	26.92	325	P	12	47.60	0.9
	0.9s	6.30nm				4.3mb
FRF	26.96	285	eP	12	46.40	-0.7
	1.2s	17.85nm				4.6mb
LBF	28.35	293	eP	12	57.60	-2.1
KEV	28.65	348	eP	13	11.00	8.9X
AVF	28.79	293	eP	13	02.50	-1.2
	0.8s	4.05nm				4.3mb
MAF	29.40	292	eP	13	08.40	-0.8
TCF	29.64	292	eP	13	10.40	-0.9
	1.2s	8.95nm				4.5mb
WMQ	31.85	72	P	13	31.00	0.1
EKA	32.71	310	P	13	38.00	-0.2
	1.1s	7.40nm				4.5mb
GKN	36.07	100	P	14	09.76	2.2
DMN	36.63	100	P	14	12.46	0.0
KKN	36.66	100	P	14	12.24	-0.3
	0.7s	16.00nm				5.0mb
PKI	36.88	100	P	14	14.26	-0.3
	0.9s	23.00nm				5.0mb
GUN	37.03	99	P	14	15.52	-0.3
GBA	40.95	125	Pc	14	45.70	-2.4
	0.9s	4.80nm				4.2mb
GTA	41.85	75	eP	14	56.40	0.9
	1.4s	10.00nm				4.4mb
XAN	50.78	77	Pd	16	06.00	-0.1
TIY	51.49	71	P	16	12.20	0.7
CHG	52.05	99	eP	16	15.00	-0.8
GYA	53.16	86	P	16	24.00	-0.2
LIC	56.11	244	P	16	43.40	-2.2
SSE	61.10	73	eP	17	20.00	-0.3
FRB	61.42	332	eP	17	21.00	-1.0
		pP		18	12.00	222kmx
YKA	73.92	350	eP	18	38.70	-1.6
	1.0s	2.00nm				4.1mb
FFC	78.82	341	eP	19	07.50	-0.5
	0.7s	7.00nm				4.8mb

S.D. = 1.3 on 51 of 61 obs.

* APR 29, 1991 19h 19m 57.82± 0.65s
43.065 N ±11.2km 44.030 E ± 8.6km
DEPTH = 10.0km (geophysicist)
4.4mb (9 obs.)

WESTERN CAUCASUS (362)

TAB	5.29	160	eP	21	20.00	1.1
OBN	12.98	341	eP	23	23.00	18.2X
SKO	16.69	274	eP	23	53.00	-0.2
SPC	17.55	299	eP	24	03.30	-0.8
ZST	19.47	295	eP	24	28.90	1.4
KSP	20.38	302	eP	24	35.50	-1.7
NUR	21.04	333	eP	24	43.60	-0.2
	0.9s	17.60nm				4.4mb
NUR	21.04	333	iP	24	44.80	1.0
	0.7s	12.70nm				4.4mb
PRU	21.34	299	eP	24	49.50	2.5
KAF	21.77	337	eP	24	50.70	-0.5
	0.8s	11.10nm				4.3mb
		esP	24	57.80		
KAF	21.77	337	eP	24	51.00	-0.2
	0.8s	12.10nm				4.4mb
		esP	24	57.80		
BRG	21.85	301	eP	24	52.40	0.3
KHC	21.88	297	eP	24	57.50	5.0X
KBA	21.96	291	e(P)	24	51.00	-2.5
	1.1s	11.60nm				4.2mb
CLL	22.51	302	ePd	24	59.00	0.4
	1.6s	29.00nm				4.5mb
UPP	23.27	325	iP	25	09.10	3.1X

[illegible]

* APR 29, 1991 19h 41m 18.99 ± 2.06s
9.092 N ± 6.8km 126.675 E ± 14.3km
DEPTH = 74.1 ± 19.7 km
4.7mb (9 obs.)

MINDANAO, PHILIPPINE ISLANDS (259)

DAV	2.27	209	eP	41	55.60	0.6
OIZ	19.07	303	P	45	37.70	-0.8
SSE	22.48	348	Pc	46	14.00	0.9
	1.0s	37.00nm				4.8mb
		PP		46	24.00	
NJ2	23.97	343	Pd	46	28.60	1.0
		SP		46	40.50	
IPM	25.85	262	ePd	46	48.00	2.5
	0.9s	41.90nm				5.0mb
XAN	29.71	329	P	47	18.20	-2.2
TIY	31.26	338	eP	47	32.60	-1.4
OIS	32.09	157	eP	47	40.00	-1.3
BJI	32.21	345	eP	47	41.50	-0.6
	1.0s	10.00nm				4.6mb
SNY	32.72	356	Pc	47	46.40	-0.1
	1.2s	40.00nm				5.1mb
ASPA	33.31	168	eP	47	50.20	-1.7
	0.6s	6.20nm				4.6mb
CN2	34.59	358	eP	48	03.00	0.3
WARB	35.06	180	iPc	48	08.10	1.2
MDJ	35.48	4	eP	48	10.00	-0.2
	1.0s	10.00nm				4.7mb
		SP		48	22.50	
GTA	38.57	326	eP	48	35.40	-1.1
BAL	40.61	193	eP	48	53.00	-0.2
MUN	42.05	193	eP	49	05.00	0.1
NWAO	42.74	192	eP	49	10.50	-0.1
STK	43.17	161	eP	49	13.70	-0.4
	1.2s	2.50nm				3.9mb
		epP		50	56.50	578kmX
RKG	43.89	192	eP	49	29.00	9.1X
HYB	47.46	285	eP	49	48.50	-0.1
WMQ	48.39	322	P	49	55.70	0.2
GBA	48.42	280	Pc	49	55.50	-0.5
	0.6s	7.40nm				4.8mb
YAK	52.87	2	eP	50	28.70	-0.4
		e		54	03.00	
INK	85.23	22	eP	53	51.00	2.8
YKA	94.66	24	eP	54	34.50	1.7
	0.7s	1.00nm				4.4mb

APR 29, 1991 19h 44m 54.77 ± 0.42s
42.585 N ± 7.3km 43.966 E ± 5.1km
DEPTH = 10.0km (geophysicist)
4.5mb (18 obs.)

WESTERN CAUCASUS (362)

TAB	4.86	157	eP	46	13.00	3.2X
KVT	6.10	258	ePn	46	24.20	-3.0
HRI	11.34	218	eP	47	40.00	0.1
TLB	11.73	285	ePd	47	43.00	-2.1
ZNT	12.52	217	eP	47	57.00	1.2
ISR	12.83	287	eP	48	05.00	5.1X
MLR	13.29	289	ePc	48	05.50	-0.6
OBN	13.42	341	eP	48	08.00	0.4
PRNI	14.18	213	eP	48	18.00	0.3
SRO	18.78	295	eP	49	22.50	6.5X
ZST	19.63	296	eP	49	28.00	1.7
GAR	20.24	91	eP	49	33.00	0.1
PTJ	20.29	289	iPd	49	32.10	-1.3
KSP	20.60	303	eP	49	35.00	-1.4
VBY	20.80	288	e(P)	49	40.00	1.5

NUR	21.45	333	iP	49	44.00	-0.9
	0.6s	14.30nm				4.5mb
		i		49	49.40	
PRU	21.54	300	P	49	48.50	2.5
		e		50	21.50	
		e		51	27.00	
DUI	21.86	278	P	49	50.60	1.2
KHC	22.05	298	eP	49	51.40	0.2
	1.5s	13.00nm				4.1mb
		e		50	08.40	
BRG	22.06	302	eP	49	51.30	0.1
	1.3s	20.00nm				4.4mb
		e		50	10.00	
KBA	22.10	292	e(P)	49	49.00	-2.8
	1.0s	15.20nm				4.4mb
KAF	22.19	338	iP	49	52.20	-0.2
	0.7s	23.30nm				4.7mb
		esP		50	01.90	
SDI	22.32	278	P	49	58.20	4.2X
AQU	22.49	280	P	49	52.70	-2.9X
ARV	22.63	283	P	49	56.80	-0.2
CLL	22.73	303	iP	49	58.20	0.4
	1.7s	69.00nm				4.9mb
CTI	23.29	290	P	50	03.50	0.0
CRE	23.33	284	P	50	04.90	1.1
PGD	23.45	284	P	50	06.60	1.4
MOX	23.49	301	eP	50	08.00	2.7X
GRF	23.64	299	eP	50	08.00	1.3
UPP	23.64	326	iP	50	08.80	2.2
		i		50	11.30	
FIR	23.80	284	eP	50	15.00	6.7X
MME	24.14	285	P	50	13.70	1.8
HFS	25.45	324	eP	50	23.50	-0.5
	0.7s	25.00nm				5.0mb
		e		50	27.90	
SOD	26.56	345	iP	50	32.90	-1.3
		i		50	48.40	
LPL	26.77	289	eP	50	33.40	-3.2X
	1.2s	14.90nm				4.6mb
NB2	26.97	325	P	50	36.60	-1.5
	0.9s	9.60nm				4.5mb
FRF	27.13	285	eP	50	35.40	-4.3X
	1.3s	18.05nm				4.6mb
KEV	28.61	348	eP	51	10.00	17.3X
		e		51	19.00	
AVF	28.95	292	eP	50	51.40	-4.7X
	0.8s	4.70nm				4.3mb
MAF	29.56	291	eP	50	57.40	-4.2X
	1.2s	8.95nm				4.5mb
WMO	31.63	73	P	51	20.30	0.3
GBA	40.84	125	Pd	52	36.90	-1.3
	0.8s	4.40nm				4.2mb
GTA	41.62	75	P	52	45.00	0.3
	1.0s	10.00nm				4.5mb
		SP		52	57.40	
DAG	42.78	342	iPc	52	53.90	0.4
	0.5s	11.97nm				4.9mb
LZH	45.93	77	eP	53	20.00	0.5
	1.2s	21.00nm				5.0mb
HHC	49.25	68	P	53	46.20	0.8
XAN	50.56	77	Pd	53	55.20	-0.2
TIY	51.27	71	eP	54	00.80	0.0
CHG	51.86	99	eP	54	03.90	-1.5
KIC	56.04	244	P	54	32.20	-4.0X
LIC	56.33	244	P	54	34.20	-4.1X
SSE	60.88	73	eP	55	10.50	0.7
FRB	61.44	332	eP	55	12.00	-1.1
INK	69.42	359	eP	56	06.00	1.7
YKA	73.86	350	eP	56	29.50	-1.5
	0.9s	2.70nm				4.3mb
FFC	78.80	341	eP	56	58.00	-0.9
	1.0s	10.00nm				4.8mb
SES	84.86	344	eP	57	27.00	-

? APR 29, 1991 20h 11m 59.75 \pm 2.76s
41.834 N \pm 27.3km 44.606 E \pm 23.0km
DEPTH = 10.0km (geophysicist)
4.3mb (6 obs.)

WESTERN CAUCASUS (362)

TAB	3.99	160	eP	13	28.00	25.6X
			i	13	37.00	
KVT	6.48	266	iPn	13	36.30	-1.2
QBN	14.28	341	eP	15	24.00	0.1
SKO	17.24	278	eP	16	01.70	-0.4
BEQ	17.81	288	eP	16	10.00	0.9

ELL	11.85	245	eP	35	51.00	4.7X
BURJ	11.89	213	Pd	35	47.84	1.0
SALJ	12.14	213	Pd	35	50.19	0.0
ZNT	12.21	215	eP	35	51.00	-0.1
KFNJ	12.28	212	Pd	35	52.85	1.0

VR1	12.37	291	ePd	35	54.00	0.8				S	41	54.00		BNS	25.95	301	iPd	38	29.90	1.7	
MASJ	12.38	212	Pd	35	53.09	-0.3	KBA	21.68	292	iPc	37	46.70	-0.4		1.6s	129.00nm				5.4mb	
ISR	12.40	288	ePd	36	00.00	6.4X				1.6s	370.00nm		5.5mb	RSP	26.02	288	P	38	25.65	-3.4X	
MKRJ	12.56	212	Pd	35	55.46	-0.4						38	07.80	ENR	26.03	286	P	38	28.21	-0.9	
QTRJ	12.65	210	P	35	57.12	0.1						38	22.60	LSD	26.05	289	P	38	29.24	-0.3	
YER	12.76	250	eP	35	59.00	0.5	BRG	21.69	303	iP	37	46.60	-0.4		SBF	26.08	285	eP	38	29.90	0.3
LISJ	12.90	212	P	36	00.25	0.0				1.9s	210.00nm		5.2mb		1.0s	100.00nm				5.5mb	
IZM	12.92	257	eP	36	00.00	-0.5						37	59.00	STV	26.10	286	P	38	28.83	-0.9	
PVL	13.22	279	iPc	36	01.00	-3.5X						eS	42	00.00	DOI	26.11	287	P	38	28.50	-1.4
OBN	13.32	343	iP	36	05.50	-0.2	RFI	21.83	277	P	37	49.38			BSF	26.12	294	iPc	38	29.70	-0.3
	Z	16s	9.60um							1.7s	3655.70nm		6.5mb	X	1.2s	35.70nm				4.9mb	
	N	13s	10.00um												EMS	26.14	290	ePc	38	29.50	-0.8
			eS	38	35.00		SDI	21.87	278	P	37	49.20	0.4		PZZ	26.21	287	P	38	28.93	-2.0
PRK	13.32	261	eP	36	07.00	1.2	BHG	22.02	294	eP	37	56.60	6.3X		WTS	26.28	304	eP	38	33.50	2.3
RDO	13.35	270	eP	36	10.20	4.1X	AQU	22.04	280	P	37	51.86	1.3			1.0s	63.00nm				5.3mb
MTUR	13.45	288	eP	36	06.00	-1.6	KAF	22.06	338	iP	37	50.80	0.3		LPG	26.33	289	iPc	38	31.60	-0.5
COZ	13.96	288	eP	36	19.00	4.5X				1.1s	451.20nm		5.8mb	LPL	26.34	289	iPc	38	31.70	-0.4	
MDB	14.03	291	eP	36	09.00	-6.1X						37	58.30	esP	37	58.30					
MBH	14.45	211	eP	36	19.00	-1.7	FVI	22.07	291	P	37	50.70	0.0		RRL	26.38	288	P	38	32.42	-0.1
SRS	14.79	271	ePd	36	25.12	0.0	AZI	22.08	279	P	37	52.10	1.2		HAU	26.42	295	iPc	38	31.80	-0.8
DEV	15.02	290	ePd	36	31.00	2.9X	ARV	22.19	283	P	37	51.80	-0.2			1.2s	80.35nm				5.3mb
SOH	15.03	270	ePc	36	27.44	-0.9	MNO	22.29	268	P	37	56.60	3.3X		Z	22s	1.15um				4.4Msz
THE	15.36	270	ePc	36	38.44	5.9X	VVI	22.33	289	P	37	54.60	1.2		BNI	26.44	288	P	38	33.20	0.3
VAY	15.50	273	iP	36	39.70	5.3X	CLL	22.36	304	iPc	37	53.90	0.3		WIT	26.47	306	eP	38	36.00	3.1X
GRC	15.70	271	ePd	36	41.92	4.9X				1.8s	440.00nm		5.6mb			e	38	56.00			
LIT	15.85	268	ePd	36	40.56	1.7	RSM	22.48	284	P	37										

LPF	31.36	296 eP	39 15.80	-1.1	NST	55.20	101 eP	42 23.00	-6.5X	SES	84.77	344 eP	45 29.00	-0.7
	1.2s	113.05nm		5.6mb	TIC	55.58	244 P	42 29.28	-3.0X		1.2s	88.00nm		5.9mb
BTH	31.67	286 Pc	39 19.50	-0.2		1.0s	31.00nm		5.3mb	BLA	85.54	318 P	45 32.60	-1.1
EBR	31.80	282 eP	39 20.00	-0.8	KIC	55.60	244 P	42 29.62	-2.8	PNT	87.31	349 eP	45 44.00	1.8
WMO	32.09	72 iPc	39 24.20	0.8		1.3s	25.50nm		5.1mb		1.0s	12.00nm		5.1mb
	2.0s	100.00nm		5.4mb	TIA	55.73	70 eP	42 33.70	0.5	SXM	88.84	343 eP	45 50.40	0.6
Z	20s	5.30um		5.2MsZ		22s	2.30um		5.2MsZ	LRM	89.42	343 eP	45 52.80	0.1
N	11s	3.80um			E	15s	1.40um			GMW	89.46	351 P	45 52.00	-0.5
E	10s	4.90um			LIC	55.89	244 P	42 31.76	-2.8X	ELC	89.56	324 P	45 53.90	0.8
		SP	39 32.50			1.1s	47.50nm		5.4mb	BW06	91.63	340 P	46 03.00	0.0
EKA	32.48	309 P	39 28.00	1.4	WHN	56.77	77 Pc	42 41.00	0.3		2.0s	21.83nm		5.2mb
	1.2s	22.90nm		5.0mb		1.5s	100.00nm		5.6mb	GLD	93.27	336 eP	45 52.80	-17.7X
AAE	33.62	188 eP	39 37.60	0.3	Z	16s	1.00um		5.0MsZ		1.0s	30.00nm		
POO	35.22	123 iP	39 51.80	1.0	N	12s	1.00um			TUL	93.46	328 eP	46 10.00	-1.1
TOL	35.38	282 eP	39 51.00	-0.9	E	12s	0.60um				1.4s	27.40nm		5.5mb
		eS	45 25.00		SNY	57.24	61 Pd	42 43.20	-0.7	LBFM	95.44	349 P	46 20.20	-0.2
MAL	36.83	277 iPd	40 02.50	-1.6	Z	16s	6.80um		5.8MsZ	MSU	96.31	341 P	46 25.70	1.2
DMN	36.90	100 P	40 05.64	0.5	E	13s	3.60um			ANMO	98.08	335 P	46 33.60	1.1
	0.9s	210.00nm		5.9mb	DL2	57.43	65 eP	42 45.00	-0.3		2.2s	115.38nm		6.1mb
KKN	36.93	100 P	40 05.38	0.1		1.0s	160.00nm		6.0mb	ALO	98.08	335 eP	46 33.00	0.5
	0.9s	125.00nm		5.7mb	Z	18s	2.70um		5.4MsZ		1.5s	9.03nm		5.2mb
PKI	37.14	100 P	40 07.58	0.3	E	13s	1.90um							S.D. = 1.1 on 245 of 283 obs.
	0.9s	137.00nm		5.7mb			S	50 46.00						
GUN	37.29	99 P	40 08.78	0.2	CN2	57.45	58 eP	42 44.00	-1.4	% APR	29, 1991	20h 46m 17.58±1.51s		
	1.0s	217.00nm		5.9mb		1.0s	20.00nm		5.1mb		40.318 N ± 8.4km	27.870 E ± 12.5km		
IFR	38.77	273 iPc	40 20.00	-0.7	N	14s	2.20um			DEPTH =	10.0km (geophysicist)			
		i	40 39.00		E	14s	2.30um			TURKEY				(366)
HYB	39.03	119 iPc	40 22.90	0.1			ePP	42 50.00		MD 2.8 (ISK).				
LSA	40.19	93 P	40 33.80	0.9			eS	50 39.00						
AKU	40.58	326 iP	40 38.60	3.6X	NJ2	59.16	73 Pc	42 56.50	-0.9	EDC	0.03	349 iPg	46 19.50	-0.1
	1.9s	210.53nm		5.5mb		1.4s	100.00nm		5.8mb			iSg	46 22.50	
GBA	41.20	124 Pd	40 40.30	-0.3	Z	22s	0.90um		4.9MsZ	BNT	0.05	45 iPg	46 19.70	-0.1
	1.0s	35.00nm		5.0mb	N	11s	0.80um					iSg	46 21.70	
TIO	41.61	271 iP	40 43.70	-0.4	E	13s	0.80um			DST	0.92	140 iPg	46 35.30	0.1
GT	42.09	74 Pc	40 49.20	1.3			S	51 10.00		CTT	0.93	27 iPg	46 35.50	0.2
	2.0s	150.00nm		5.4mb	MDJ	59.60	56 eP	42 54.50	-5.9X			iSg	46 49.20	
Z	18s	3.80um		5.3MsZ		Z	20s	1.40um	5.1MsZ	YLV	1.17	77 iPn	46 39.90	0.4
E	11s	2.20um			N	12s	1.00um			IZI	1.23	89 ePn	46 40.00	-0.4
		PP	42 35.00		E	12s	2.20um							S.D. = 0.3 on 6 of 6 obs.
		S	47 08.00				eS	51 13.00		? APR	29, 1991	20h 49m 58.09±14.54s		
DAG	42.68	343 ePd	40 52.00	-0.1	QIZ	60.20	91 eP	43 01.00	-3.8X		35.355 N ± 106.6km	12.291 E ± 54.6km		
	0.7s	20.55nm		5.0mb	E	14s	1.20um			DEPTH =	33.0km (normal)			
KOD	43.86	127 eP	41 03.00	0.3	GZH	60.31	85 P	43 05.80	0.3	MEDITERRANEAN SEA				(400)
LZH	46.39	77 eP	41 23.50	0.9	FRB	61.26	332 eP	43 10.00	-1.3	FAI	2.22	30 P	50 34.10	0.8
	1.5s	230.00nm		6.0mb	SNG	61.32	108 eP	43 10.80	-1.6			eSn	50 51.80	
Z	19s	4.61um		5.5MsZ	SSE	61.34	73 Pc	43 12.00	-0.4	CVT	2.35	10 P	50 35.50	0.3
N	11s	1.83um				1.5s	120.00nm		5.8mb	LVI	2.63	1 P	50 39.00	0.0
		PP	41 33.00			Z	20s	1.50um	5.1MsZ	PZI	2.70	51 P	50 41.10	0.9
		SP	41 35.00			N	13s	0.60um		MEU	2.75	50 P	50 40.20	-0.8
		S	48 10.00			E	13s	0.60um				eSn	51 03.70	
		SS	48 17.00		IPM	63.44	110 ePc	43 26.00	-0.5	GIB	2.98	27 P	50 44.00	-0.2
BTO	48.75	68 P	41 42.00	1.0		0.9s	78.40nm		5.9mb			eSn	51 08.10	
	N	15s	1.10um		BUL	63.83	195 iPd	43 26.60	-2.5	MNO	3.22	36 P	50 48.20	0.6
	E	15s	0.80um			0.9s	33.61nm		5.5mb	USI	3.42	12 P	50 50.10	-0.3
		ePP	43 35.00		BRW	65.56	7 eP	43 39.40	-0.1	ATN	3.78	41 P	50 55.70	0.2
		eS	48 46.00		PPI	66.64	114 eP	43 46.50	-0.7	TDS	5.37	36 P	51 16.30	-1.6
CD2	48.86	83 eP	41 42.20	0.3	SLR	69.34	194 iPd	44 03.50	-0.5					S.D. = 0.9 on 10 of 10 obs.
	1.2s	100.00nm		5.7mb		0.6s	26.67nm		5.6mb					APR 29, 1991 21h 24m 09.37±0.47s
Z	18s	2.10um		5.2MsZ	INK	69.45	359 eP	44 02.00	-2.0					42.205 N ± 10.9km
HHC	49.70	67 eP	41 49.00	0.7	MAT	69.59	59 eP	44 03.00	-2.4					43.676 E ± 5.5km
	Z	16s	4.80um	5.6MsZ		1.5s	102.78nm		5.8mb					DEPTH = 10.0km (geophysicist)
N	12s	1.20um					eS	52 48.00						4.5mb (15 obs.)
E	15s	2.50um			BAG	69.77	86 eP	44 06.50	-0.5	WESTERN CAUCASUS				(362)
		SP	41 57.00		ANM	70.87	13 eP	44 13.60	0.8	TAB	4.60	153 eP	25 35.00	14.2X
KMI	51.29	90 eP	42 00.00	-0.8	IMA	70.93	7 eP	44 13.40	0.2			eP	26 00.00	-0.8
	2.0s	190.00nm		5.7mb		1.2s	29.60nm		5.3mb	KAS	7.45	267 eP	26 17.00	0.3
TIY	51.73	71 Pd	42 04.00	0.3	CBM	72.22	318 P	44 21.20	0.1	BBTK	8.58	258 eP	26 59.00	-0.1
	Z	22s	2.90um	5.3MsZ	FBA	72.54	5 eP	44 23.20	0.5	DST	11.68	262 eP	27 15.00	1.8
N	18s	2.30um				1.2s	49.24nm		5.5mb	VRI	12.73	292 ePd	27 15.00	
YAK	51.98	37 iPc	42 03.70	-1.5	TTA	73.74	9 P	44 30.40	0.6			e	39 49.00	
		ePcP	43 17.00		YKA	73.82	350 eP	44 28.70	-1.5	ISR	12.75	289 ePd	27 20.00	6.6X
		ePP	44 08.00			1.2s	15.80nm		4.9mb	QBN	13.72	343 eP	27 26.00	0.0
		ePPP	44 53.00		MIM	73.86	317 P	44 31.40	0.7	PRNI	13.74	213 eP	27 33.00	6.4X
		ePcS	47 21.00		POF	74.74	201 iPc	44 36.50	0.7	SKO	16.51	277 eP	28 05.30	2.8X
		eS	49 28.00			1.4s	60.47nm		5.4mb	SPC	17.75	301 eP	28 19.00	0.8
		e	50 06.00		BNH	75.43	318 P	44 40.90	1.1	ZST	19.61	297 eP	28 39.70	-0.9
		eSS	53 33.00		SVW	75.56	9 eP	44 41.80	1.5	GAR	20.45	90 eP	28 51.50	1.8
CHG	52.31	99 ePc	42 07.30	-1.0	PMR	75.73	6 P	44 41.20	0.1	KSP	20.63	304 iP	28 50.00	-1.3
	1.0s	54.75nm		5.4mb		1.2s	37.88nm		5.3mb	PRU	21.55	301 eP	29 02.50	1.8
BJI	53.20	66 eP	42 14.50	-0.1	KLU	76.05	5 P	44 42.90	-0.2			e	29 11.00	
	N	14s	3.40um		FFC	78.69	340 eP	44 57.00	-0.7			e	30 48.30	
BDT	53.36	100 eP	42 16.00	0.0		1.2s	43.00nm		5.4mb			e	33 53.00	
	1.0s	55.20nm		5.5mb	CER	78.69	200 iPc	44 57.50	-0.4			e	34 08.00	
GYA	53.42	86 P	42 16.40	-0.2		1.1s	54.05nm		5.5mb			eSg	34 59.00	
KHT	54.67	103 eP	42 25.70	0.0	EDM	82.52	346 eP	45 18.50	0.3	NUR	21.69	334 iP	29 03.70	1.7

29d 21h

KHC	1.0s	24.00nm		4.6mb			iSn	33	03.39				iSg	38	55.95				
KBC	22.04	299 eP	29	05.20	-0.5	TIM	2.21	42	iPd	32	43.00	9.6X	NKY	1.30	182	iPgc	38	37.98	-0.4
	22.05	293 e(P)	29	04.00	-1.9	BZS	2.33	49	iPc	32	35.00	-0.1				iSg	38	56.08	
BRG	1.0s	12.50nm		4.3mb		UZD	2.50	352	ePn	32	37.80	0.3	IVA	1.38	154	iPgc	38	39.23	-0.2
	22.09	303 eP	29	08.50	2.4X	SKO	2.75	141	ePn	32	40.00	-1.1				iSg	38	58.73	
	1.4s	19.00nm		4.3mb					iPg	32	47.00		PVY	1.65	156	iPnc	38	43.96	0.5
		e	30	18.00					iSn	33	17.00					iSn	39	06.15	
SDI	22.17	279 P	29	07.90	0.9				iSg	33	29.00		TTG	1.69	175	iPnc	38	44.35	0.5
FVI	22.43	292 P	29	09.50	0.1				Lg	33	37.50					iSn	39	08.30	
KAF	22.46	338 eP	29	06.20	-3.5X	ZAG	2.79	309	e(Pn)	32	43.10	1.5	Hcy	1.72	194	iPnc	38	45.35	1.1
	0.8s	10.00nm		4.3mb					iPg	32	53.30					iSn	39	10.73	
		esP	29	13.60					iSg	33	30.70		BDV	1.84	186	iPnc	38	47.53	1.5
CLL	22.76	304 eP	29	12.00	-0.7	PTJ	2.85	310	ePn	32	42.10	-0.5				iSn	39	11.78	
	1.8s	55.00nm		4.8mb					eSn	33	22.00		BCI	1.89	157	iPnd	38	47.60	0.8
		e	35	33.00		VBY	3.07	298	eP	32	46.80	1.3				iSn	39	18.10	
		eSg	36	35.00					e	32	52.40		SDA	2.12	171	iPnc	38	53.60	3.5X
RSM	22.81	285 P	29	14.20	0.9				e(Sn)	33	33.30					iSn	39	21.60	
CRE	23.21	284 P	29	19.60	2.3	DEV	3.22	55	ePd	32	58.00	10.2X	HVAR	2.12	245	iPn	38	51.70	1.5
SFI	23.24	285 P	29	19.10	1.6	OHR	3.26	157	ePn	32	48.50	0.2				iSn	39	18.30	
PGD	23.34	285 P	29	21.00	2.3				iSn	33	35.00		ULC	2.15	177	iPnd	38	52.43	1.8
GRF	23.64	300 eP	29	20.00	-1.3				Lg	33	55.80					iSn	39	20.45	
FIR	23.69	285 eP	29	14.00	-7.8X	BUD	3.37	359	e(Pn)	32	49.00	-0.8	KKS	2.26	154	ePn	38	55.60	-16.5X
UPP	23.84	327 iP	29	29.50	6.4X	BRT	3.53	204 P	P	32	58.50	6.4X	BZS	2.35	49	iPc	38	53.00	-0.4
MME	24.04	286 P	29	27.90	2.4	RIY	3.58	292	iPnd	32	53.40	0.7	UZD	2.50	352	iP	38	55.60	0.0
PGF	25.52	283 eP	29	40.20	0.6	KKB	3.69	126	eP	32	55.00	0.6	PHP	2.62	157	ePn	39	00.90	3.6X
HFS	25.64	325 eP	29	38.90	-1.5	CEY	3.69	298	e(Pn)	32	55.70	1.2				iSn	39	34.40	
	0.6s	8.50nm		4.6mb					e	33	03.90		SKO	2.75	140	iPn	38	59.00	-0.2
Z	15s	0.18um		3.7MsZX					eSg	33	54.50					i	39	06.00	
		e	30	07.50		SRO	3.74	352	iPn	32	56.90	1.9				i	39	15.80	
LPL	26.69	290 eP	29	48.70	-1.8				i	33	06.00					i	39	26.50	
	0.9s	8.20nm		4.4mb					i	33	49.30					i	39	29.20	
SOD	26.87	345 eP	29	53.00	1.3	LJU	3.76	302	eP	32	55.40	-0.1				i	39	32.20	
NB2	27.15	325 P	29	53.10	-1.3				e	33	08.00					iSn	39	35.70	
	0.6s	2.40nm		4.1mb					eSg	34	05.00					i	39	37.50	
AVF	28.00	293 eP	30	07.80	-2.4	VAY	3.79	136	ePn	32	55.60	-0.2				i	39	42.00	
	0.8s	4.70nm		4.3mb		PSZ	3.84	8	eP	32	56.00	-0.6				iSg	39	47.20	
WMO	31.95	72 eP	30	36.50	-0.9	TRI	4.11	295	eP	33	00.40	0.1				Lg	39	55.50	
DMN	36.59	100 P	31	18.06	0.3	VOY	4.15	299	ePn	33	00.90	-0.2	ZAG	2.78	309	ePn	39	00.60	1.1
	0.8s	18.00nm		4.9mb		DUI	4.20	236	P	33	02.30	0.5				iPg	39	07.50	
KKN	36.62	100 P	31	18.56	0.7	MMB	4.24	125	eP	33	02.00	-0.2				iSn	39	34.00	
	0.8s	16.00nm		4.9mb		ZST	4.31	342	e(Pn)	33	02.30	-0.8				iSg	39	45.20	
PKI	36.84	100 P	31	20.62	0.8				i	33	10.70		PTJ	2.84	310	ePn	39	00.40	-0.1
	0.8s	13.00nm		4.8mb					i	33	53.40					eS	39	40.00	
GUN	36.99	99 P	31	21.92	0.8	ARV	4.50	264	P	33	06.20	0.3	SRE	3.01	78	ePd	39	06.00	3.2X
	0.9s	22.00nm		4.9mb		SDI	4.57	240	P	33	06.50	-0.4	VBY	3.05	298	ePnd	39	04.50	1.2
XAN	50.86	76 P	33	11.80	-0.5				eSn	33	55.00					i	39	11.20	
CHG	52.01	99 eP	33	20.90	-0.3	RZN	4.79	119	eP	33	10.00	-0.2	DEV	3.24	56	iPd	39	07.00	0.9
TIC	55.66	245 P	33	47.00	-1.1	RSM	4.80	270	P	33	09.80	-0.3	OMR	3.26	156	iPn	39	07.30	0.9
KIC	55.68	244 P	33	47.00	-1.2	MNS	5.00	252	P	33	12.50	-0.5				iSn	39	57.10	
LIC	55.97	244 P	33	49.10	-1.2	KBA	5.01	308	ePn	33	11.00	-2.2				Lg	40	14.20	
SSE	61.20	73 eP	34	25.00	-1.5				iSn	34	06.90		BUD	3.37	359	ePn	39	07.80	0.0
FRB	61.67	332 eP	34	26.00	-3.3X	FVI	5.09	301	P	33	14.00	-0.3	VTS	3.38	115	iP	39	08.00	-0.1
		pP	35	37.00	321kmX	CRE	5.19	267	P	33	15.80	0.0	BAI	3.41	209	P	39	09.00	0.7
INK	69.79	359 eP	35	23.50	2.3X	SFI	5.23	270	P	33	15.10	-1.1	BRT	3.52	204	P	39	10.60	0.6
YKA	74.20	350 eP	35	44.60	-2.9X				eSn	34	06.60					eSn	39	51.00	
	0.7s	0.80nm		3.9mb		PGD	5.33	270	P	33	17.50	-0.3	RIY	3.56	292	ePn	39	11.50	0.9
FFC	79.09	341 eP	36	13.00	-2.1	ISR	5.41	77	eP	34	10.00	51.1X				iSn	39	54.50	
	0.7s	6.00nm		4.7mb					e	39	46.50					iSb	40	04.60	
	S.D. = 1.4	on 40 of 51 obs.				CTI	5.62	293	P	33	21.00	-0.8				iSg	40	10.30	
						FIR	5.67	269	eP	33	37.00	14.5X	CEY	3.68	298	ePn	39	13.50	1.2
	APR 29, 1991	21h 31m 56.14±0.26s				BRD	5.83	73	eP	33	57.00	32.4X				eSg	40	13.40	
	44.120 N ± 2.6km	19.100 E ± 2.9km				MME	6.04	274	P	33	27.70	-0.2	KKB	3.70	126	iPc	39	13.00	0.4
	DEPTH = 10.0km (geophysicist)					KHC	6.29	325	Pn	33	31.20	0.0	FNA	3.74	152	eP	39	13.94	0.8
	YUGOSLAVIA	(383)							Pg	33	40.60					eS	40	23.46	
	ML 3.8 (ZAG), 3.7 (TTG).					HFS	16.37	350	(P)	35	56.40	9.1X	SRO	3.74	352	iPn	39	13.60	0.5
PLE	0.82	165 iPgc	32	11.12	-0.9				eSg	34	51.50					i	39	22.10	
		iSg	32	21.64					0.4s	0.70nm		3.1mb				i	39	34.70	
BEO	1.20	54 iPg	32	19.00	0.6	Z	16s		e	35	59.40					i(Sn)	40	01.20	
		iSg	32	37.30					e	36	22.90					i	40	05.60	
BRY	1.28	199 iPgd	32	18.55	-1.5	NB2	17.59	347 P	P	36	09.40	6.7X				i	40	22.50	
		iSg	32	38.12					0.8s	1.20nm		3.1mb				LR	40	30.00	
NKY	1.31	183 iPgc	32	19.85	-0.6				S.D. = 0.9	on 44 of 52 obs.			LJU	3.75	303	ePn	39	14.00	0.7
		iSg	32	38.19												e	39	25.00	
IVA	1.38	155 iPgc	32	20.82	-0.6				APR 29, 1991	21h 38m 15.15±0.25s						eSg	40	18.50	
		iSg	32	40.30					44.113 N ± 2.1km	19.074 E ± 1.9km			VAY	3.80	136	iPn	39	14.00	0.1
PVY	1.65	157 iPnd	32	25.75	0.3				DEPTH = 19.2 ± 2.8 km							iSg	40	29.00	
		iSn	32	49.29					YUGOSLAVIA	(383)						Lg	40	30.80	
TTG	1.69	176 iPnc	32	26.47	0.6				ML 4.8 (ZAG), 4.8 (TIR), 4.7				PSZ	3.85	8	iP	39	14.30	-0.4
		iSn	32	50.77					(TTG). Felt in the Srebrenico				LCI	3.87	193 P	P	39	13.70	-1.2
Hcy	1.73	195 iPnd	32	27.55	1.2				oreo.				TPE	3.88	169	ePn	39	15.80	0.7
		iSn	32	52.99												iSn	40	21.50	
BDV	1.85	186 iPnd	32	28.99	0.9	PLE	0.82	163 iPgd	38	29.28	-1.3		COZ	3.94	70	eP	39	21.00	4.8X
		iSn	32	55.42					iSg	38	39.95		GRG	4.00	141	eP	39	17.06	0.3
HVAR	2.14	245 iPn	32	33.60	1.2	BEO	1.22	54 iPg	38	37.30	0.2				eS	40	29.00		
		iSg	33	03.30					iSg	38	55.30		PGB	4.03	111	eP	39	18.00	0.7
ULC	2.16	177 iPnd	32	34.32	1.7	BRY	1.27	198 iPgd	38	36.75	-1.3		TRI	4.10	295 P	P	39	19.20	1.0

VOY	4.14	299	iPn	39	19.10	0.2					42	00.00			Mff=-1.18 0.19	Mrt=-0.02 0.10
			i	39	32.30					i	42	20.00			Mrf= 0.28 0.09	Mtf=-0.52 0.11
			eSn	40	06.10		ATH	7.07	149	eP	39	59.90	-0.2		Principal Axes:	
			eSg	40	34.30		VDL	7.18	293	eP	40	02.30	0.5		T Vol= 1.20	Plg=81 Azm=242
DUI	4.18	236	P	39	20.80	1.3	PRK	7.26	130	eP	40	03.80	1.1		N	0.20 6 19
MMB	4.25	125	iPd	39	21.00	0.6	PGF	7.51	261	Pn	40	03.80	-2.6		P	-1.40 6 110
CEI	4.28	32	eP	40	08.00	47.2X	EDC	7.53	117	eP	40	07.00	0.4		Best Double Couple:Mo=1.3+10**17	
KZN	4.30	151	eP	39	22.30	1.2	BNT	7.56	117	iP	40	15.70	8.7X		NP1:Strike=207 Dip=40 Slip= 100	
ZST	4.31	342	iPn	39	21.60	0.4	LLS	7.60	295	eP	40	08.50	0.7		NP2:	14 51 82
			i	39	28.60		BRG	7.60	335	ePn	40	07.60	0.1			
			i	39	33.90					e	40	34.00		DAV	1.48 9 eP	06 27.00 -0.2
			i(Sn)	40	11.10					e	41	16.00		TSM	7.36 259 ePd	07 50.50 1.5
			i	40	24.60					e	41	54.00		KKM	9.08 273 ePd	08 15.40 2.7
			iLg	40	51.00					e	42	30.00		OCP	9.89 335 eP	08 45.00 21.4X
CMP	4.41	73	ePc	39	02.00	-20.6X	GRF	7.75	319	ePn	40	09.20	-0.4X	BAG	11.69 337 eP	08 47.00 -1.1
MTUR	4.41	73	eP	39	28.00	5.2X				e	40	20.90			e	11 06.00
ARV	4.48	264	P	39	24.00	0.3	CKI	7.76	276	P	40	07.50	-2.3	TRT	18.32 224 iPc	10 06.60 -6.2X
SRS	4.48	130	eP	39	23.30	-0.4	KCT	7.90	116	eP	40	19.70	7.9X		1.1s 125.40nm	5.1mb
			eS	40	41.10		HOF	7.90	324	eP	40	13.00	1.2	QIZ	20.13 313 iPc	10 33.40 0.7
ORI	4.49	207	P	39	24.50	0.7	VLI	7.95	157	eP	40	09.00	-3.5X		0.9s 100.00nm	5.1mb
AQU	4.50	249	P	39	24.50	0.5	ROB	8.05	275	P	40	10.79	-3.2X	E	15s 1.60um	
THE	4.52	139	eP	39	23.82	-0.3	ZLA	8.19	298	eP	40	15.10	-0.8		eS	14 16.50
			eS	40	41.50		SLE	8.23	300	eP	40	14.90	-1.5	QZH	20.27 342 eP	10 33.50 -0.5
SDI	4.55	240	P	39	25.00	0.3	MOX	8.26	325	eP	40	16.00	-0.8	Z	25s 4.90um	4.8MsZx
			eSn	40	17.50					e	40	32.50		N	21s 3.60um	
SOH	4.56	135	eP	39	24.70	-0.2	CLL	8.28	333	ePn	40	17.00	0.0	PJG	20.81 66 eP	10 56.20 16.6X
VKA	4.57	336	ePn	39	24.50	-0.5				iSg	42	54.20		GUA	20.84 66 eP	10 55.20 15.3X
			i	40	28.20		ENR	8.38	275	P	40	15.61	-3.0X	GZH	20.86 328 P	10 41.00 1.0
PLD	4.58	114	eP	39	26.00	0.9	SBF	8.40	272	Pn	40	15.40	-3.4X		1.0s 100.00nm	5.1mb
PVL	4.63	99	iPd	39	23.00	-2.8X	YLV	8.41	111	eP	40	32.00	13.0X	Z	20s 2.50um	4.6MsZ
AZI	4.65	245	P	39	26.40	0.4	DST	8.43	119	eP	40	18.70	-0.5	KNA	21.51 171 iPd	10 44.50 -2.1
IGT	4.67	168	eP	39	25.10	-1.3	STV	8.45	275	P	40	17.05	-2.5	KGM	22.25 262 eP	10 57.00 3.0X
			eS	40	41.60		DIX	8.48	287	eP	40	19.80	-0.4	IPM	24.23 269 ePc	11 15.60 2.3
LIT	4.75	146	eP	39	27.17	-0.3	RSP	8.49	281	P	40	14.69	-5.5X		0.8s 281.30nm	5.7mb
			eS	40	49.40		DOI	8.49	277	P	40	17.70	-2.4	SNQ	24.61 275 eP	11 18.10 1.2
RSM	4.78	270	P	39	28.00	0.1	FEL	8.57	300	eP	40	19.81	-1.4	LAT	24.83 119 eP	11 20.19 1.2
RZN	4.80	118	iP	39	28.00	-0.4	LSD	8.59	283	P	40	22.48	0.9	PCT	25.18 293 eP	11 24.40 2.1
TDS	4.90	206	P	39	29.60	0.1	PZZ	8.60	277	P	40	17.35	-4.3X	PPI	25.62 257 eP	11 27.20 0.9
MNS	4.98	252	P	39	30.80	0.1	RMS	8.81	287	eP	40	24.80	0.2		0.7s 138.20nm	5.6mb
KBA	5.00	308	iPnd	39	30.90	-0.2	ERL	8.82	280	P	40	23.51	-1.3	SSE	25.64 352 Pc	11 26.00 -0.3
			i	39	39.40		LPG	8.87	283	Pn	40	23.60	-2.0		6.0s 600.00nm	5.3mb X
			iSn	40	18.00		LPL	8.89	283	Pn	40	23.70	-2.0	Z	20s 1.60um	4.5MsZ
			i	40	33.70		BNI	8.90	280	P	40	26.20	0.4	N	12s 0.50um	
BUC	5.05	84	eP	39	54.00	22.3X	EYL	8.94	110	eP	40	27.00	0.7		SP	11 41.00
VVI	5.07	294	P	39	33.20	1.2	RSL	8.98	284	P	40	26.11	-0.8	LOE	25.88 299 eP	11 19.00 -9.8X
MLR	5.08	72	ePd	39	35.00	2.8X	FRF	9.00	271	Pn	40	23.90	-3.1X	PMG	26.38 124 eP	11 33.00 -0.4
FVI	5.08	301	P	39	32.00	-0.1	LMR	9.13	269	Pn	40	25.20	-3.7X	NST	26.67 294 eP	11 37.50 1.5
SPC	5.14	9	ePn	39	33.10	0.0	LRG	9.22	270	Pn	40	27.60	-2.7X	WHN	26.86 339 P	11 39.60 2.0
			e	40	18.40		BSF	9.32	298	Pn	40	29.40	-2.2X	Z	20s 1.80um	4.6MsZ
CRE	5.17	267	P	39	34.00	0.5				Sn	42	08.70			PP	11 48.00
RMP	5.21	246	P	39	33.00	-1.0	TNS	9.47	314	ePc	40	31.10	-2.4X	NJ2	26.98 348 eP	11 37.00 -1.7
SFI	5.21	270	P	39	34.90	0.9	HAU	9.66	298	Pn	40	34.10	-2.1X	MBL	27.16 191 eP	11 39.00 -1.4
RDP	5.23	245	P	39	35.80	1.6				Sn	42	17.30		GYA	27.33 321 P	11 43.00 0.9
KMR	5.23	321	ePn	39	36.00	1.8	LBF	10.97	290	Pn	40	51.40	-2.7X	N	18s 1.30um	
			iSn	40	40.20		MEM	10.98	311	P	40	54.20	0.0	E	18s 1.20um	
PGD	5.31	270	P	39	36.41	0.8	SMF	11.01	289	Pn	40	51.80	-2.9X		SP	12 00.00
PAIG	5.41	139	eP	39	36.25	-0.5	LOR	11.10	292	Pn	40	53.00	-2.9X	KHT	27.81 291 eP	11 50.00 3.6X
CTI	5.60	293	P	39	39.10	-0.5	ENN	11.11	311	eP	40	56.50	0.6	CHG	28.87 299 ePc	11 55.90 -0.1
RDO	5.61	120	eP	39	40.40	0.7		0.9s 7.00nm					4.9mb		1.0s 19.50nm	4.7mb
BHG	5.63	312	eP	39	40.60	0.7	SSF	11.30	291	Pn	40	55.60	-3.0X	KMI	29.07 314 eP	11 58.50 0.6
AGG	5.64	153	eP	39	40.14	0.0	AVF	11.36	289	Pn	40	56.70	-2.7X		1.5s 60.00nm	5.0mb
			eS	41	06.90		WTS	11.37	318	eP	41	10.50	-1.1X	Z	20s 1.50um	4.6MsZ
GRI	5.65	202	P	39	39.11	-1.2		0.8s 8.00nm							PP	12 02.00
FIR	5.65	269	ePn	39	36.00	-4.2X	DOU	11.53	306	P	41	02.40	0.7	OIS	29.56 152 eP	12 01.00 -1.0
			i(Sn)	40	34.00		BGF	11.68	288	Pn	41	00.70	-3.1X	NANU	29.61 199 eP	12 10.50 8.1X
JMB	5.72	104	eP	39	40.00	-1.2	NUR	16.76	10	eP	42	16.00	5.9X	ASPA	30.29 164 iPc	12 06.80 -1.7
BRD	5.85	73	eP	39	27.00	-15.9X	TOL	17.68	264	eP	42	24.00	2.1		0.6s 49.90nm	5.4mb
PTT	5.86	59	eP	40	03.00	-19.9X	SOD	23.66	7	eP	43	05.00	-20.8X	Z	23s 0.60um	4.2MsZx
MME	6.03	274	P	39	46.20	0.5	YKA	67.46	339	eP	49	11.90	0.7		eS	16 55.00
VLS	6.04	169	eP	39	43.20	-2.5X		1.1s 1.70nm					4.1mb		iScP	18 44.30
ALN	6.07	120	eP	39	45.18	-0.9	FBA	70.84	354	P	49	25.00	-7.0X	TIA	31.36 347 eP	12 15.30 -2.5
			eS	41	15.50		S.D. = 1.0 on 116 of 162 obs.					Z	22s 1.80um	4.7MsZ		
BDI	6.11	272	P	39	46.00	-0.7	APR 29, 1991 22h 06m 02.01± 0.73s					N	21s 2.30um			
SAL	6.26	287	P	39	48.10	-0.6	5.623 N ± 4.1km 125.330 E ± 5.4km					XAN	32.11 334 iPc	12 23.00 -1.4		
KHC	6.29	325	iPn	39	48.30	-0.9	DEPTH = 74.2 ± 6.8 km					CD2	32.30 324 P	12 26.20 0.1		
OGA	6.29	299	eP	39	50.00	0.6	5.3mb (30 obs.)						0.8s 100.00nm	5.7mb		
TLB	6.44	83	eP	39	00.00	-51.3X	MINDANAO, PHILIPPINE ISLANDS (259)					Z	20s 1.80um	4.8MsZ		
CFR	6.56	77	eP	40	09.00	15.9X	CENTROID, MOMENT TENSOR (HRV)					MEKA	32.71 191 iPd	12 28.50 -1.2		
WET	6.60	322	iPd	39	56.50	3.0X	Data Used: GDSN					CTA	32.80 142 iP	12 30.90 0.4		
PRU	6.64	334	Pn	39	54.50	0.4X	L.P.B.: 15S, 29C						0.9s 26.89nm	5.1mb		
			e	40	01.30		Centroid Location:						iS	17 41.00		
FUR	6.76	310	iPc	40	21.80	25.9X	Origin Time 22:06: 6.0 0.7					MAT	32.96 19 eP	12 29.00 -2.7X		
DMK	6.77	107	eP	39	54.80	-1.1	Lat 5.92N 0.08 Lon 125.77E 0.09						0.7s 10.96nm	4.8mb		
OSS	6.79	295	eP	39	56.70	0.2	Dep 81.0 4.0 Half-duration 1.9					TIY	34.04 342 Pd	12 39.40 -1.7		
BOB	6.92	279	P	39	57.90	-0.3	Moment Tensor: Scale 10**17 Nm					Z	24s 2.90um	4.9MsZx		
KSP	6.99	345	iP	40	00.00	1.0	Mrr= 1.16 0.09 Mtt= 0.02 0.14					N	25s 4.00um			
			iS	41	30.00											

29d 22h

YAMJ	35.05	20	eP	12	49.40	-0.3	OBN	84.70	325	eP	18	27.00	-1.9	esP	33	28.90					
BJI	35.24	348	eP	12	50.00	-1.3	MAW	85.04	200	iPd	18	31.20	0.9	SDI	22.23	278	P	33	21.40	0.1	
	0.5s		20.00nm			5.3mb	JVI	87.05	302	eP	18	40.00	-1.0	QUE	22.30	117	eP	33	23.50	1.2	
SNY	36.08	358	iPd	12	57.40	-0.9	PRNI	87.48	300	eP	18	43.00	-0.1	FVI	22.37	291	P	33	23.20	0.7	
	0.8s		50.00nm			5.5mb	KEV	87.64	340	eP	18	41.00	-2.1	AQU	22.39	280	P	33	23.70	0.8	
Z	12s		1.30um			4.9mszX	SOD	88.20	337	iP	18	44.60	-1.2	ARV	22.53	283	P	33	24.20	0.0	
LZH	36.17	330	Pc	13	00.00	0.6	INK	88.92	21	eP	18	48.50	-0.7	CLL	22.59	303	eP	33	25.00	0.3	
	1.5s		93.00nm			5.5mb	KAF	89.28	332	iP	18	48.50	-2.5		1.9s		80.00nm			4.9mb	
Z	20s		1.46um			4.8msz		0.3s		5.30nm			5.3mb	RSM	22.82	284	P	33	28.20	1.2	
N	15s		0.89um				NUR	90.38	331	eP	18	55.40	-0.7	CRE	23.22	283	P	33	33.30	2.2	
E	15s		0.81um					0.5s		5.40nm			5.1mb	SFI	23.25	284	P	33	32.30	1.1	
FORR	36.36	176	eP	12	59.00	-1.8		0.5s		5.40nm			5.1mb	PGD	23.35	284	P	33	34.20	1.8	
OFUJ	36.44	22	eP	13	01.90	0.5	MLR	92.58	316	iP	18	55.50	-11.3X	MOX	23.36	301	eP	33	37.00	4.8X	
OLP	36.89	151	iPd	13	04.00	-1.3	DAG	95.22	352	eP	19	16.30	-1.9	UPP	23.49	326	iP	33	35.00	1.6	
BAL	36.96	192	eP	13	04.40	-1.4	HFS	95.70	332	eP	19	19.20	-1.5								
HHC	37.18	343	eP	13	07.20	-0.5		0.4s		1.40nm			4.8mb	GRF	23.51	299	eP	33	34.00	0.3	
KLB	37.70	191	eP	13	11.00	-1.1	Z	17s		0.06um			4.1mszX	FIR	23.69	284	eP	33	37.00	1.5	
CN2	38.02	0	P	13	14.00	-0.6	NB2	96.48	333	P	19	21.20	-3.0	MME	24.03	285	P	33	40.70	1.6	
MUN	38.39	193	eP	13	17.00	-0.8		0.7s		3.50nm			5.0mb	BDI	24.12	285	P	33	46.40	6.6X	
MDJ	39.02	5	Pc	13	24.40	1.5	YKA	98.36	24	eP	19	32.20	-0.4	OSS	24.18	291	ePd	33	40.70	0.2	
	0.7s		60.00nm			5.6mb		0.8s		3.40nm			4.9mb	VDL	24.66	291	ePd	33	45.10	0.0	
NWAO	39.10	191	eP	13	22.50	-1.3	FRB	110.03	7	ePKP	24	24.00	-2.2	LLS	24.96	292	ePd	33	47.00	-1.0	
RMO	39.17	146	eP	13	30.00	5.6X	SCH	118.94	8	ePKP	24	43.00	-0.5	SLE	25.26	294	ePd	33	49.70	-1.0	
HOQJ	39.93	21	eP	13	32.50	2.0	KIC	128.76	283	PKP	25	03.20	-0.4	HFS	25.31	324	eP	33	52.20	1.3	
LSA	40.15	311	P	13	35.20	2.1	PNJ	130.37	19	PKP	25	09.60	3.8X		0.8s		26.20nm			5.0mb	
RKG	40.25	191	eP	13	38.00	4.8X				PKS	28	09.80		Z	17s		0.07um			3.3mszX	
STK	40.39	158	iPc	13	34.20	-0.2	PEL	148.82	153	ePKP	25	39.00	-0.2								
	0.7s		18.90nm			5.1mb		0.6s		100.00nm				FEL	25.58	294	eP	33	54.40	0.6	
			i				MDZ	149.83	156	e(PKP)	25	42.90	2.2	MMK	25.73	290	ePd	33	53.70	-1.7	
			iPcS				LPB	162.95	131	ePKP	26	00.00	2.1	DIX	26.11	290	ePd	33	58.70	-0.2	
			eS				ZOBO	163.09	130	PKP	26	00.20	1.9	SOD	26.42	345	eP	33	53.00	-8.2X	
GTA	40.77	329	P	13	37.60	0.0		1.1s		7.25nm											
	0.8s		10.00nm			4.7mb	SIV	167.93	149	PKP	26	02.00	0.3	EMS	26.45	290	ePd	34	00.50	-1.4	
Z	20s		1.90um			5.0msz		S.D. = 1.3		on 106 of 119 obs.			LPL	26.65	289	eP	34	01.70	-2.1		
N	19s		1.50um											1.0s		11.00nm			4.5mb		
			PP			13	44.20						NB2	26.82	324	P	34	04.00	-1.0		
			SP			13	47.70							0.9s		7.10nm			4.4mb		
			S			19	52.00						MEM	26.91	300	Pc	34	12.20	6.3X		
KUSJ	41.07	22	eP	13	40.50	0.7		APR 29, 1991 22h 28m 23.04 ± 0.27s					KEV	28.47	348	eP	34	38.00	18.2X		
ASAJ	41.25	19	eP	13	42.50	1.2		42.709 N ± 6.8km 43.858 E ± 3.6km					AVF	28.83	292	eP	34	19.10	-4.1X		
CMS	41.77	153	iPd	13	46.50	0.8		DEPTH = 10.0km (geophysicist)						1.0s		8.00nm			4.5mb		
ADE	42.30	164	iPc	13	50.30	0.2	WESTERN CAUCASUS	(362)					MAF	29.44	291	eP	34	25.40	-3.4X		
	0.7s		287.67nm			6.2mb	TAB	5.00	157	iP	29	50.00	9.9X		1.2s		10.40nm			4.5mb	
GUN	43.50	305	P	14	00.38	0.1	KVT	6.05	257	iPn	29	50.00	-4.0X	NDI	30.28	107	iPd	34	36.50	0.1	
	0.6s		116.00nm			5.9mb	KAS	7.63	263	iPd	30	13.70	-3.3X	WMO	31.67	73	eP	34	48.00	-0.6	
PKI	43.75	305	P	14	01.82	-0.5	BBTK	8.83	255	eP	30	34.00	0.2	EKA	32.67	309	P	34	57.00	-0.2	
KKN	43.94	305	P	14	03.38	-0.4	CFR	11.59	288	eP	31	08.00	-3.4X		2.7s		130.90nm			5.4mb	
	0.5s		29.00nm			5.4mb	TLB	11.62	285	ePc	31	08.00	-3.9X	AAE	33.84	189	eP	35	06.70	-1.3	
DMN	44.01	304	P	14	04.06	-0.3	DST	11.89	260	eP	31	14.00	-1.6	TOL	35.73	282	eP	35	25.00	1.3	
	0.7s		40.00nm			5.3mb	VR1	12.68	290	eP	31	30.50	4.4X	DMN	36.55	101	P	35	31.38	0.4	
COO	44.07	146	eP	14	05.00	0.5	ISR	12.72	287	eP	31	30.00	3.3X	KKN	36.57	100	P	35	29.96	-1.2	
BFD	45.51	161	eP	14	16.00	0.2				e	33	46.00			1.1s		23.00nm			4.9mb	
			i				MLR	13.17	288	ePd	31	31.00	-1.8	PKI	36.79	101	P	35	33.06	-0.1	
CNB	46.58	153	eP	14	26.00	1.6				e	33	55.50		GUN	36.94	100	P	35	34.40	0.0	
TOO	46.90	158	eP	14	28.00	1.1	OBN	13.28	342	eP	31	32.00	-1.9	HYB	38.77	120	eP	35	49.00	-0.5	
HYB	47.18	288	iPc	14	29.60	0.2	Z	12s		0.70um				GBA	40.97	125	Pd	36	06.20	-1.4	
	0.8s		53.90nm			5.5mb				eS	34	01.00			1.7s		26.30nm			4.7mb	
KOD	47.59	279	eP	14	33.80	0.8	MTUR	13.77	287	eP	31	50.50	9.9X	DAG	42.64	342	iPc	36	22.00	1.4	
GBA	47.81	283	Pc	14	32.70	-1.6	CMF	13.79	287	ePc	31	45.00	4.1X		0.5s		9.15nm			4.8mb	
	0.9s		32.70nm			5.3mb	COZ	14.28	287	eP	31	57.00	9.5X	LZH	45.98	77	eP	36	48.00	-0.2	
DZM	48.76	126	iPc	14	42.00	0.3	DEV	15.33	289	ePd	32	08.00	7.0X		1.6s		29.00nm			5.0mb	
WMO	50.38	325	P	14	53.50	-0.3	VAY	15.88	272	eP	32	07.50	-0.6				PP			36	54.00
NDI	50.93	303	iPd	14	57.00	-1.1	SKO	16.59	275	eP	32	11.00	-6.2X	CD2	48.46	83	P	37	08.40	0.8	
	0.8s		48.51nm			5.6mb				i	32	17.50		HHC	49.27	68	eP	37	15.00	1.1	
POO	51.77	289	iP	15	03.50	-1.1	OHR	17.23	273	eP	32	24.70	-0.6	XAN	50.61	77	P	37	23.90	-0.2	
TAU	52.27	160	eP	15	10.00	2.1	BBU	17.32	160	iP	32	27.50	1.1	TIY	51.31	71	Pd	37	34.00	4.6X	
YAK	56.37	2	iPc	15	35.70	-1.8		0.5s		23.00nm			4.6mb	GYA	53.03	86	P	37	42.00	-0.5	
			e				PSZ	17.61	295	eP	32	31.10	1.1	TIC	56.00	245	Pd	37	59.90	-4.2X	
GAR	59.62	312	eP	16	00.00	-0.9	SPC	17.61	300	eP	32	28.50	-1.7		0.9s		16.00nm			5.0mb	
			e				SRO	18.65	295	eP	32	48.00	5.2X	KIC	56.02	244	Pd	37	59.98	-4.3X	
QUE	59.97	302	eP	16	02.90	-0.6	ZST	19.50	296	eP	32	54.60	1.5	LIC	56.31	244	Pd	38	02.14	-4.3X	
THZ	64.04	142	Pc	16	30.50	0.2	PTJ	20.18	289	eP	32	58.90	-1.5		0.9s		17.50nm			5.1mb	
KHZ	64.80	142	P	16	34.70	-0.4	KSP	20.47	303	eP	33	03.50	0.2	SSE	60.92	73	P	38	38.00	-0.3	
PGZ	65.53	139	P	16	40.10	0.3	VBY	20.68	288	e(P)	33	04.50	-1.1	FRB	61.29	332	eP	38	40.00	-0.4	
ANM	76.13	25	eP	17	44.40	1.1	NUR	21.30	333	iP	33	14.80	3.1X	INK	69.29	359	eP	39	31.00	-0.8	
SDN	76.41	34	e(P)	17	45.40	0.4		0.6s		12.30nm			4.5mb	WIN	69.48	206	iPd	39	31.00	-2.8X	
TAB	77.90	308	eP	17	54.00	0.2				e	33	17.00			0.6s		13.33nm			5.3mb	
SVW	79.81	29	eP	18	05.10	1.5	PRU	21.41	300	P	33	18.30	5.4X	SLR	69.60						

S.D. = 1.1 on 66 of 97 obs.			TCF 79.76 45 eP 57 08.30 -0.7			4.5mb (13 obs.) 4.6Msz (4 obs.)		
APR 29, 1991 22h 44m 59.02±0.40s			0.5s 2.20nm 4.4mb			WESTERN CAUCASUS (362)		
9.641 N ± 6.4km 82.932 W ± 8.4km			SSP 80.60 44 eP 57 12.30 -1.1			TAB 4.87 157 eP 33 47.00 2.8		
DEPTH = 10.0km (geophysicist)			LOR 80.83 44 eP 57 12.10 -2.5			KVT 6.05 258 ePn 33 59.00 -1.7		
4.8mb (16 obs.) 4.6Msz (3 obs.)			Z 20s 0.65um 5.0Msz			KAS 7.64 264 eP 34 21.50 -1.6		
PANAMA-COSTA RICA BORDER REGION (80)			SMF 80.86 44 eP 57 12.30 -2.5			VRI 12.75 291 eP 35 47.00 13.9X		
MD 5.0 (UPA), 4.9 (SJR). Felt in			NB2 83.65 29 P 57 28.40 -0.6			ISR 12.78 287 eP 35 36.00 2.4		
Costo Rico and at David, Puerto			HFS 85.00 30 eP 57 34.90 -0.8			MLR 13.24 289 ePc 35 39.00 -0.7		
Armuelles and Changuinola,			Z 13s 0.6s 2.40nm 4.6mb			OBN 13.42 342 eP 35 40.00 -1.8		
Panama.			Z 13s 0.04um 4.0MszX			MAIO 13.58 112 eP 35 42.00 -2.2		
ECO 3.21 95 iPd 45 48.70 -1.8			GRF 85.40 41 e(P) 57 40.00 2.0			SKO 16.63 276 eP 36 25.00 1.4		
UPA 3.42 101 iPd- 45 52.20 -1.2			MOX 85.50 40 eP 57 38.00 -0.4			OHR 17.26 273 eP 36 32.00 0.3		
FUO 10.01 114 eP 47 28.50 2.2			CLL 86.24 39 iPc 57 42.60 0.5			ZST 19.59 296 eP 37 03.40 3.3X		
PSO 10.08 146 eP 47 29.00 1.7			BRG 86.91 39 eP 57 45.10 -0.3			KSP 20.56 303 eP 37 12.00 1.7		
BOG 10.11 119 eP 47 35.00 7.3X			1.7s 15.00nm 4.9mb			NUR 21.44 334 iP 37 19.50 0.4		
TPX 10.51 301 (P) 47 30.00 -2.8X			KHC 87.02 41 eP 57 46.50 0.5			PRU 21.50 300 eP 37 20.00 0.1		
SDV 12.16 93 iP 47 52.60 -2.9X			WMQ 126.12 8 ePKP 04 09.00 5.4X			KHC 22.01 298 eP 37 29.00 3.9X		
CEOS 14.42 91 iP 48 20.10 -5.3X			ASPA 142.19 244 ePKP 04 29.00 -5.3X			BRG 22.02 302 eP 37 29.00 4.7X		
PPM 17.85 303 (P) 49 08.50 -1.2			1.0s 6.90nm			KBA 22.05 292 e(P) 37 24.00 -1.7		
NNA 22.32 164 iP 49 59.00 0.4			GYA 142.93 346 PKP 04 37.00 1.4			KAF 22.18 338 iP 37 27.60 1.0		
1.6s 166.67nm 5.3mb			KMI 145.01 351 PKPc 04 37.50 -1.8			CLL 22.69 303 eP 37 36.00 4.3X		
PRM 24.33 1 P 50 21.80 3.8X			HYB 147.48 34 ePKP 04 43.50 0.2			GRF 23.60 299 eP 37 40.00 -0.6		
LHS 24.80 4 P 50 24.00 1.5			GBA 149.78 40 PKP 04 58.00 11.2X			UPP 23.62 326 iP 37 49.10 8.4X		
TKL 25.91 358 P 50 34.00 1.0			MUN 151.57 216 ePKP 04 55.50 6.4X			HFS 25.43 324 eP 37 58.50 0.4		
GBTN 25.93 358 P 50 43.70 10.5X			CHG 151.67 356 ePKP 04 55.20 5.5X			Z 17s 0.19um 3.7MszX		
RSCP 25.95 355 iP 50 34.80 1.4			KOD 152.25 45 ePKP 05 03.00 12.0X			SOD 26.56 345 eP 38 09.00 0.5		
2.0s 230.77nm 5.5mb			BAL 152.25 218 ePKP 04 56.50 6.3X			NB2 26.95 325 P 38 11.20 -1.0		
OLY 26.89 344 P 50 41.80 -0.3			S.D. = 1.2 on 54 of 71 obs.			WMO 31.68 73 P 38 55.00 0.2		
BLA 27.54 4 P 50 49.00 1.0			? APR 29, 1991 22h 48m 38.57±2.21s			EKA 32.78 309 P 39 08.00 3.9X		
NAV 27.62 4 P 50 50.00 1.3			9.370 N ±29.6km 83.010 W ±18.6km			GTA 41.68 75 P 40 19.20 -0.2		
ARE 28.30 156 eP 50 57.00 1.7			DEPTH = 10.0km (geophysicist)			LZH 45.98 77 eP 40 54.00 -0.3		
TUL 28.65 338 e(P) 50 57.50 -0.5			4.0mb (1 obs.)			Z 18s 0.44um 4.4Msz		
1.0s 12.50nm 4.7mb			COSTA RICA (78)			CD2 48.45 83 eP 41 13.80 0.2		
Z 22s 0.60um 4.2Msz			MD 4.0 (UPA). Felt at David,			HHC 49.30 68 eP 41 21.60 1.5		
FVM 29.02 348 P 51 01.00 -0.2			Puerto Armuelles and			XAN 50.62 77 iPd 41 29.00 -0.2		
1.0s 23.00nm 4.9mb			Changuinola, Panama.			TIY 51.33 71 eP 41 37.00 1.5		
ZOBO 29.62 150 P 51 06.80 -0.8			ECO 3.27 90 iPd 49 30.40 -0.6			Z 20s 0.60um 4.6Msz		
Z 19s 1.67um 4.7Msz			UPA 3.45 96 P 49 34.50 1.0			CN2 57.08 59 P 42 17.00 -0.6		
LPB 29.86 150 P 51 09.00 -0.5			LHS 25.07 4 P 54 04.60 -0.1			SSE 60.94 73 P 42 44.30 -0.2		
Z 16s 4.04um 5.2MszX			TKL 26.18 359 P 54 16.90 1.9			FRB 61.43 332 eP 42 47.00 -0.3		
CCH 31.56 148 P 51 20.30 -4.1X			GBTN 26.20 358 P 54 15.80 0.6			YKA 73.87 350 eP 44 06.10 0.8		
LVNJ 31.87 12 P 51 27.70 1.2			RSCP 26.21 355 P 54 16.50 1.1			S.D. = 1.3 on 30 of 37 obs.		
WVLY 32.92 6 P 51 36.20 0.5			BLA 27.82 4 P 54 30.00 0.0			APR 30, 1991 02h 16m 33.05±0.18s		
ALO 33.11 323 eP 51 37.20 -0.5			1.0s 17.00nm 4.8mb X			5.926 N ± 3.4km 82.612 W ± 3.4km		
0.9s 2.73nm 4.2mb			FVM 29.26 348 P 54 42.00 -1.0			DEPTH = 10.0km (geophysicist)		
ANMO 33.11 323 P 51 37.50 -0.2			0.8s 37.88nm 5.2mb X			5.5mb (66 obs.) 5.3Msz (23 obs.)		
1.0s 3.75nm 4.3mb			LVNJ 32.15 12 P 55 08.50 0.0			SOUTH OF PANAMA (83)		
SIV 33.42 139 P 51 38.20 -2.1			WVLY 33.20 6 P 55 17.70 0.0			Ms 5.4 (PAS). Mo=6.0*10**17 Nm		
GLD 35.97 330 P 52 02.00 -0.1			ALQ 33.28 323 eP 55 19.00 0.3			(PPT). Felt at David, Panama.		
GOL 36.00 330 P 52 02.20 -0.3			0.8s 1.68nm 4.0mb			CENTROID, MDMENT TENSOR (HRV)		
BNH 36.26 14 P 51 56.50 -7.8X			CBM 39.52 16 P 56 10.60 -0.6			Data Used: GDSN		
MIM 37.44 16 P 52 15.80 1.6			SCH 47.13 13 eP 57 12.00 -0.7			L.P.B.: 19S, 47C		
CBM 39.24 16 P 52 30.40 1.1			FRB 55.26 8 eP 58 12.00 -2.0			Centroid Location:		
PEL 44.12 165 eP 53 09.50 0.1			INK 67.45 342 eP 59 36.50 0.2			Origin Time 02:16:37.2 0.5		
MDZ 44.37 163 e(P) 53 12.90 1.4			ASPA 142.00 243 ePKP 08 05.90 -7.6X			Lot 5.76N 0.04 Lon 82.47W 0.04		
SES 46.80 336 eP 53 33.00 2.3			1.1s 3.60nm			Dep 15.0 FIX Half-duration 3.6		
SCH 46.85 13 eP 53 30.00 -0.9			S.D. = 1.0 on 15 of 16 obs.			Moment Tensor: Scale 10**17 Nm		
FFC 47.45 345 ePd 53 35.00 -0.6			? APR 29, 1991 23h 29m 08.68±6.58s			Mrr=-1.97 0.26 Mtt=-0.94 0.27		
1.2s 25.00nm 5.2mb			42.228 N ±49.7km 28.052 E ±18.1km			Mff= 2.91 0.34 Mrt= 2.47 0.79		
NEW 48.02 330 P 53 48.00 7.7X			DEPTH = 10.0km (geophysicist)					
FRB 54.98 8 eP 54 29.00 -3.4X			BLACK SEA (360)					
YKA 57.52 343 eP 54 48.20 -2.5			MD 3.1 (ISK).					
0.8s 2.70nm 4.3mb			DMK 0.46 208 iPg 29 17.90 -0.2					
INK 67.22 342 eP 55 54.50 -0.8			1.12 165 iPn 29 29.60 0.0					
IFR 74.61 58 iP 56 41.00 0.3			ISK 1.39 147 ePn 29 34.00 0.0					
MAL 75.12 55 iPd 56 44.00 0.6			HRT 1.86 139 iPn 29 40.70 -0.1					
LIC 77.09 86 P 56 54.36 -0.6			BNT 1.87 183 ePn 29 41.60 0.5					
KIC 77.36 86 P 56 56.28 -0.1			EDC 1.89 184 ePn 29 41.00 -0.2					
0.6s 4.50nm 4.7mb			S.D. = 0.4 on 6 of 6 obs.					
LDF 78.09 42 eP 56 59.80 0.0			APR 29, 1991 23h 32m 29.05±0.46s					
0.7s 8.80nm 5.0mb			42.571 N ± 9.3km 43.891 E ± 5.5km					
MFF 78.12 44 eP 57 00.00 0.0			DEPTH = 10.0km (geophysicist)					
LFF 78.79 46 eP 57 03.70 0.0								

30d 02h

Mrf= 3.46 0.90 Mtf= 9.19 0.27				CBN 32.48 8 eP 23 05.40 -0.5				MIN 48.92 320 ePc 25 20.20 -1.3			
Principal Axes:				FVM 32.69 349 P 23 04.80 -3.0x				SES 50.31 337 iPc 25 31.00 -0.9			
T Val= 11.70 Plg=17 Azm=309				1.2s 191.18nm 5.9mb				1.5s 434.00nm 6.2mb			
N -3.28 73 138				SLA 34.73 152 ePc 23 25.50 -0.2				SCH 50.39 12 ePc 25 30.30 -2.1			
P -8.41 3 40				CLE 35.42 1 iP 23 29.80 -1.5				0.9s 79.00nm 5.7mb			
Best Double Couple: Mo=1.0*10**18				LVNJ 35.44 10 P 23 30.70 -0.7				FHC 50.70 320 ePc 25 34.80 -0.2			
NP1: Strike= 86 Dip=76 Slip= 10				GMTN 35.61 11 iP 23 32.90 0.0				FFC 51.10 346 iPc 25 36.10 -1.7			
NP2: 353 80 166				PNJ 35.64 11 iP 23 31.60 -1.5				1.1s 83.00nm 5.6mb			
UPA 4.30 45 iPd- 17 39.40 -0.7				TXNY 35.90 11 iP 23 34.10 -1.2				NEW 51.39 331 P 25 38.20 -1.9			
S 18 15.60				ALO 36.30 326 iPc+ 23 39.30 0.3				1.1s 44.44nm 5.3mb			
ANCC 6.21 112 iPc 18 04.86 -2.2				1.4s 322.67nm 6.0mb				PNT 53.32 331 iPc 25 54.00 -0.5			
CLMC 6.36 108 iPc 18 07.89 -1.5				Z 18s 4.30um 5.3msz				1.1s 121.00nm 5.8mb			
HOOC 6.44 112 iPc 18 07.98 -2.6x				ANMO 36.30 326 P 23 39.60 0.6				EDM 53.41 337 iPc 25 53.50 -1.7			
HOBG 6.64 103 iPc 18 10.73 -2.5x				1.2s 253.91nm 5.9mb				FRB 58.60 7 ePc 26 28.50 -3.7x			
BUGC 6.65 107 iPc 18 11.59 -1.8				Z 18s 5.98um 5.4msz				1.0s 60.00nm 5.6mb			
CUMC 6.83 136 ePc 18 11.60 -4.7x				WVLY 36.57 5 P 23 40.00 -1.0				YKA 61.15 344 eP 26 46.50 -3.3x			
COTA 7.00 142 Pd 18 14.60 -4.1x				GLD 39.35 332 P 24 04.60 0.0				0.8s 76.90nm 5.9mb			
SILC 7.03 117 iPc 18 16.99 -2.0				1.3s 413.79nm 5.9mb				INK 70.83 342 iPc 27 51.30 -0.3			
PSO 7.07 132 eP 18 17.00 -2.5x				Z 18s 3.68um 5.3msz				1.1s 273.00nm 6.3mb			
PURC 7.19 120 ePc 18 19.37 -1.9				GOL 39.38 332 P 24 04.50 -0.4				REY 72.20 24 eP 27 58.80 -1.1			
YANA 7.23 146 iPd 18 18.70 -3.1x				Z 18s 1.95um 5.0msz				KLU 72.28 333 P 27 59.80 -0.7			
OUR 7.30 146 iPd 18 19.60 -3.2x				RTBS 39.43 162 e(P) 24 05.60 0.6				TOA 72.61 334 eP 28 02.80 0.3			
CAYA 7.42 141 Pd 18 22.70 -1.9				RTLL 39.43 161 ePc 24 05.20 0.0				PMR 73.76 333 eP 28 08.60 -0.4			
QUIL 7.59 151 P 18 23.40 -3.5x				RTCB 39.47 161 ePd 24 05.90 0.4				1.1s 29.90nm 5.2mb			
VC1 7.76 147 Pd 18 27.60 -1.7				CFA 39.76 161 ePc 24 07.50 -0.4				SLKM 73.94 332 P 28 08.80 -1.4			
ANGL 8.06 141 P 18 18.00 -15.5x				BNH 39.77 13 P 24 06.60 -1.2				PTO 74.09 49 eP 28 13.30 2.0			
TUNG 8.40 150 eP 18 38.40 0.3				ROCH 40.22 165 eP 24 12.70 0.8				e(S) 37 54.00			
BOG 8.61 98 iPc 18 42.50 1.5				GLA 40.32 316 iP 24 13.00 0.5				FBA 74.28 336 eP 28 11.40 -0.7			
iS 20 12.00				PV09 40.36 327 P 24 12.50 -0.6				1.3s 80.19nm 5.6mb			
FUO 8.84 92 eP 18 42.00 -2.2				PEL 40.47 165 iPd 24 14.00 0.3				AKU 74.30 23 eP 28 11.90 -0.2			
SDV 12.24 75 iP 19 30.60 0.0				LCCH 40.56 166 eP 24 14.50 0.2				1.1s 25.32nm 5.2mb			
TPX 13.02 314 (P) 19 40.00 -0.8				MDZ 40.75 162 i(P) 24 16.60 0.6				AVE 74.40 57 eP 28 13.00 -0.4			
CEOS 14.49 77 iP 19 57.60 -2.7x				SAN 40.77 165 eP 24 17.00 0.9				RSO 75.14 331 P 28 15.80 -1.5			
SCX 14.55 318 (P) 20 06.00 5.0x				TACH 40.89 165 eP 24 17.50 0.4				EVAL 75.21 53 eP 28 18.50 0.6			
MORO 14.97 70 iP 20 05.10 -1.5				MIM 40.91 15 P 24 16.80 -0.3				PDB 75.67 330 P 28 18.20 -1.9			
OXX 17.71 310 (P) 20 43.76 2.1				PCH 40.97 165 eP 24 18.50 0.7				EPLA 75.90 50 eP 28 22.50 0.6			
NNA 18.70 162 iPc 20 51.70 -2.1				LNV 41.06 166 eP 24 17.00 -1.4				EJIF 76.16 54 eP 28 25.00 1.6			
1.0s 450.00nm 5.6mb				PPD 41.38 133 eP 24 18.40 -2.8x				IFR 76.32 57 iP 28 24.00 -0.6			
eS 24 22.00				BAR 41.40 314 eP 24 22.00 0.7				i 28 28.00			
CUM 18.80 75 eP 20 53.00 -2.0				TPC 41.75 317 eP 24 24.00 -0.2				i 28 40.50			
LVVM 19.22 317 (P) 20 59.54 -0.6				PLM 41.90 315 eP 24 26.00 0.4				EHOR 76.41 53 eP 28 27.00 2.3			
MGP 19.34 50 P 21 01.00 -0.6				PEC 42.40 316 P 24 29.80 0.2				SVW 76.65 331 ePc 28 24.60 -1.1			
IISM 19.38 313 (P) 21 02.68 0.7				RVR 42.61 316 eP 24 32.00 0.8				0.8s 62.07nm 5.7mb			
LRS 19.69 50 P 21 05.00 -0.7				CBM 42.72 15 P 24 31.20 -0.7				ECB 76.68 38 eP 28 27.50 1.6			
PORP 19.71 51 P 21 05.30 -0.5				GSC 42.94 318 eP 24 35.00 0.9				ECP 76.91 38 eP 28 28.90 1.7			
CLLP 19.77 51 P 21 06.00 -0.4				MWC 43.21 315 eP 24 37.00 0.7				IMA 76.98 337 ePc 28 27.00 -0.5			
ACX 20.08 304 (P) 21 09.01 -0.7				PAS 43.25 315 eP 24 36.00 -0.4				1.1s 29.60nm 5.3mb			
IIT 20.08 312 (P) 21 14.10 4.1x				ePP 26 20.00				MAL 77.03 54 iPc 28 29.50 1.3			
SJG 20.12 52 iP 21 09.50 -0.7				eS 31 16.00				TIC 77.05 85 P 28 27.74 -1.0			
CPD 20.26 52 P 21 10.60 -1.0				eSS 34 44.00				0.9s 28.50nm 5.3mb			
PPM 20.34 311 (P) 21 13.88 0.9				eLg 36 00.00				LIC 77.08 85 P 28 28.02 -0.9			
IIA 20.42 311 (P) 21 14.94 1.8				eLR 37 36.00				1.0s 51.00nm 5.6mb			
LPR 20.45 52 P 21 13.20 -0.4				SBB 43.30 316 eP 24 36.00 -0.9				Z 20s 0.85um 5.1msz			
III 20.58 308 (P) 21 15.79 0.7				BW06 43.76 331 P 24 39.80 -0.9				TTA 77.22 333 ePc 28 28.00 -0.8			
TRN 21.50 76 eP 21 34.63 10.3x				1.2s 173.52nm 5.7mb				KIC 77.35 85 P 28 29.58 -0.8			
Z 20s 7.85um 5.1msz				CLC 43.77 318 eP 24 40.00 -0.7				1.0s 49.00nm 5.6mb			
MRX 22.67 309 (P) 21 38.46 2.5x				SOB1 44.21 110 eP 24 42.60 -1.9				GUD 77.41 50 eP 28 31.00 0.6			
ARE 24.82 154 iP 21 42.50 -14.7x				ISA 44.27 317 eP 24 45.00 0.2				TOL 77.45 51 iP- 28 32.00 1.5			
i 21 58.00				SYP 44.72 315 eP 24 40.00 -0.5				iS 38 25.00			
e 26 24.00				TNP 44.84 321 P 24 49.20 -0.3				iPS 39 13.00			
ZOBO 26.30 147 iPc 22 10.20 -1.3				1.0s 53.75nm 5.4mb				eSS 43 13.00			
S 26 28.00				VAO 45.17 131 eP 24 49.40 -2.8x				ECOG 77.72 53 eP 28 34.00 1.8			
LPB 26.53 147 iPc 22 11.20 -2.2				e 26 34.30				AFC 77.74 53 eP 28 33.30 1.0			
1.0s 260.00nm 5.9mb				FRI 45.84 318 ePc 24 55.80 -1.3				DAG 78.42 12 iPd 28 33.10 -2.0			
Z 20s 29.43um 5.8msz				PRI 46.03 316 ePc 24 50.30 -0.6				1.0s 33.00nm 5.4mb			
S 26 48.00				LLA 46.47 317 ePc 25 01.40 -0.8				Z 20s 3.55um 5.7msz			
LR 30 00.00				PRS 46.62 316 ePc 25 02.70 -0.7				EHUE 78.51 53 eP 28 37.50 1.0			
HBF 26.95 4 P 22 15.70 -0.9				LPA 46.81 152 eP+ 25 07.00 2.2				ECRI 78.73 48 eP 28 40.00 2.4			
CCH 28.30 145 P 22 29.50 0.1				Z 21s 12.90um 5.9msz				ENIJ 78.80 54 eP 28 40.30 2.3			
TKL 29.61 358 P 22 38.40 -2.2				CMB 46.86 318 ePc 25 03.50 -1.8				ETOR 79.01 50 eP 28 42.00 2.8x			
GBTN 29.63 357 P 22 39.00 -1.9				CAI 47.04 105 eP 25 04.70 -2.3				EKA 79.15 35 Pd 28 38.30 -1.2			
RSCP 29.66 355 P 22 38.50 -2.6x				SXM 47.08 333 iPc 25 07.00 -0.2				1.1s 49.70nm 5.4mb			
Z 20s 4.86um 5.1msz				MHC 47.33 317 iPc 25 09.30 0.2				BRW 79.35 342 eP 28 40.30 0.0			
OLY 30.54 346 P 22 45.90 -3.0x				LRM 47.41 332 ePc 25 09.30 -0.5				LPF 79.99 42 eP 28 44.40 0.3			
BLA 31.20 3 P 22 53.40 -1.4				PCC 47.91 317 eP 25 13.20 -0.4				1.4s 78.40nm 5.5mb			
1.0s 80.00nm 5.6mb				BKS 48.01 317 ePc 25 14.30 0.0				GRR 80.12 42 eP 28 45.40 0.6			
NAV 31.29 3 P 22 53.80 -1.7				1.5s 133.00nm 5.8mb				1.2s 68.45nm 5.5mb			
ANT 31.77 158 eP 22 59.80 0.0				Z 20s 5.00um 5.5msz				EGRA 80.34 48 eP 28 52.50 6.4x			
ELC 31.79 350 P 22 56.70 -3.2x				E 20s 8.00um				FLN 80.39 42 eP 28 46.80 0.6			
CVL 32.13 6 P 23 00.90 -1.9				eS 32 24.00				1.4s 113.25nm 5.7mb			
TUL 32.21 340 ePd 23 00.20 -3.3x				eLQ 36 04.00				Z 22s 3.00um 5.6msz			
1.0s 108.50nm 5.7mb				eLR 39 56.00				BTH 80.44 47 iPd 28 50.00 3.3x			
Z 20s 2.99um 5.0msz				e 29 21.50				e 31 19.00			
LR 33 01.80				e 31 50.00				e 31 50.00			
MEO 32.28 335 iPc 23 02.50 -1.8				BRK 48.02 317 ePc 25 14.30 -0.1				MFF 80.55 44 eP 28 47.70 0.5			
NA2 32.36 7 P 23 03.50 -1.3				ORV 48.42 320 iPc 25 17.40 -0.1				1.0s 22.00nm 5.1mb			

LDF	80.62	42 eP	28 47.90	0.4	RGS	86.15	27 eP	29 15.20	-0.2	Z	20s	1.40um	5.7MsZ
	1.1s	48.85nm		5.4mb	MMK	86.18	44 ePd	29 19.80	3.5X	E	24s	1.70um	
EPF	80.84	47 eP	28 49.70	0.8	ROB	86.25	46 P	29 16.43	0.0			ePKS	39 22.00
	1.2s	35.70nm		5.3mb	ZLA	86.36	43 ePd	29 19.10	2.2			SS	56 59.00
EROO	80.88	50 eP	28 52.00	3.0X	SLE	86.40	43 ePd	29 19.20	2.1	NJ2	137.05	333 ePKP	35 56.00 -2.7X
EBR	80.94	50 (P)	28 48.50	-0.8	FIN	86.50	46 P	29 18.27	0.6	Z	24s	0.60um	5.2MsZ
		eS	39 06.00		PCP	86.71	46 P	29 19.30	0.6			PP	38 42.00
LFF	81.14	46 eP	28 50.90	0.6	NB2	86.72	29 P	29 17.70	-0.6	WHN	140.26	337 ePKP	36 07.00 2.4
	1.0s	20.00nm		5.1mb		1.1s	58.80nm		5.7mb	ASPA	140.71	239 iPKPc	36 05.30 -0.4
LPO	81.46	46 eP	28 52.40	0.4	LLS	86.82	43 ePd	29 22.20	2.8X		1.0s	14.00nm	
	1.1s	34.20nm		5.3mb	VDL	87.18	44 ePd	29 23.90	2.8X	WB2	141.49	245 iPKPc	35 59.80 -7.4X
ANM	81.57	334 eP	28 52.60	0.4	PGF	87.22	48 eP	29 21.70	0.4		1.0s	4.40nm	
RJF	81.69	45 eP	28 53.50	0.3		1.3s	39.70nm		5.5mb			i	36 09.80
	1.6s	74.65nm		5.5mb	BOB	87.33	45 P	29 23.70	2.0	WRA	141.50	245 PKP	36 01.00 -6.2X
Z	21s	1.95um		5.4MsZ	OSS	87.62	43 ePd	29 25.80	2.6X		1.0s	4.30nm	
LSF	81.70	44 eP	28 53.50	0.3	HFS	88.05	30 eP	29 23.00	-1.7	CD2	142.87	351 ePKP	36 06.70 -2.6X
	1.2s	28.25nm		5.2mb		1.3s	38.40nm		5.6mb	KKN	144.50	19 PKP	36 09.16 -3.2X
CAF	82.08	46 eP	28 55.70	0.4	Z	22s	1.46um		5.4MsZ		0.8s	72.00nm	
	1.3s	32.50nm		5.3mb			e	29 24.50		GUN	144.57	18 PKP	36 09.78 -2.9X
TCF	82.18	44 eP	28 55.90	0.2			e	29 28.60			0.9s	215.00nm	
	1.1s	15.85nm		5.0mb			e	29 33.80		DMN	144.61	19 PKP	36 09.62 -3.0X
MAF	82.42	44 eP	28 57.20	0.2			e	29 36.90		PKI	144.74	19 PKP	36 09.78 -3.2X
	1.2s	28.25nm		5.3mb			e	29 44.80		WARB	145.57	231 ePKP	36 12.00 -2.0
BGF	82.61	44 eP	28 58.20	0.2			LR	58 09.00		POO	146.39	43 ePKP	36 16.00 0.4
	1.5s	60.05nm		5.5mb	MOX	88.14	39 iPc	29 28.50	3.1X	GYA	146.58	345 PKP	36 15.40 -0.4
AVF	82.96	44 eP	28 59.70	0.0		1.4s	39.00nm		5.5mb	RKG	146.61	210 ePKP	36 18.00 2.5X
	1.3s	25.25nm		5.2mb	CTI	88.73	44 P	29 30.30	1.9	GZH	147.22	332 PKP	36 18.00 1.3
SSF	83.06	43 eP	29 00.20	0.0	FIR	88.73	46 eP	29 43.00	14.7X	NWAO	147.39	212 ePKP	36 15.00 -1.7
	1.1s	12.20nm		5.0mb	CLL	88.93	39 iPd	29 31.60	2.5	BAG	148.08	314 ePKP	36 19.80 1.3
LOR	83.29	43 eP	29 01.30	-0.2		1.4s	43.00nm		5.5mb	KMI	148.70	351 ePKP	36 19.50 0.1
	1.1s	13.45nm		5.1mb	Z	21s	0.50um		4.9MsZ	QCP	148.87	311 ePKP	36 27.10 7.6X
Z	20s	0.90um		5.1MsZ			eSKS	40 00.00		DAV	149.05	294 ePKP	36 28.60 8.7X
SMF	83.30	44 eP	29 01.50	0.0	BHG	89.35	42 iPc	29 34.30	3.1X	HYB	150.26	38 ePKP	36 21.50 -0.1
	1.3s	23.45nm		5.2mb	BRG	89.58	39 iP	29 34.20	2.0	GBA	152.27	45 PKPd	36 24.00 -0.6
UCC	83.53	40 P	29 06.00	3.4X		1.2s	23.00nm		5.3mb		0.9s	4.20nm	
DOU	83.70	40 Pc	29 06.00	2.5X	Z	20s	1.50um		5.4MsZ	QIZ	152.33	334 ePKP	36 30.10 5.5X
	1.0s	30.50nm		5.5mb	N	22s	0.50um			KOD	154.48	51 ePKP	36 29.00 0.9
		S	39 31.00		E	20s	1.50um			CHG	155.37	356 ePKP	36 33.40 4.6X
DBN	84.01	38 eP	29 06.00	1.1			eSKS	40 00.00		S.D. = 1.2 on 234 of 298 obs.			
Z	20s	0.70um		5.0MsZ	KHC	89.61	41 eP	29 33.00	0.6				
		eS	39 34.00		Z	24s	2.20um		5.5MsZ	% APR 30, 1991 02h 26m 23.33±0.69s			
ENN	84.53	40 eP	29 09.50	1.9	N	22s	1.40um			39.213 N ± 6.2km 29.584 E ± 7.5km			
	0.8s	18.00nm		5.4mb	E	22s	0.70um			DEPTH = 10.0km (geophysicist)			
		e	29 29.00				SKS	40 00.00		TURKEY (366)			
MEM	84.59	40 Pc	29 10.70	2.8X	KBA	89.75	43 e(P)	29 25.00	-8.3X	MD 2.7 (ISK).			
VITF	84.69	42 P	29 08.61	0.2		1.1s	15.10nm		5.1mb				
WIT	84.89	38 eP	29 12.00	2.7X			i	29 34.20		ALT	0.44	111 iPg	26 31.80 -0.5
HAU	84.94	42 eP	29 10.10	0.3	UPP	90.04	30 iP	29 35.50	1.4	DST	0.84	298 ePg	26 39.20 -0.3
	1.5s	47.00nm		5.5mb	PRU	90.09	40 eP	29 37.00	2.4			eSg	26 49.20
Z	19s	1.30um		5.3MsZ		Z	22s	2.90um		KHL	0.89	183 iPg	26 40.80 0.3
WTS	85.02	38 eP	29 10.50	0.5		N	22s	0.30um				iSg	26 52.80
	1.0s	84.00nm		5.9mb	E	22s	2.40um			IZI	1.13	356 iPn	26 44.10 -0.4
		e	29 32.00				ePP	33 15.50		YLV	1.36	353 iPn	26 48.00 -0.4
KBS	85.10	11 eP	29 11.00	1.0			SKS	40 10.00		KCT	1.40	318 ePn	26 49.10 0.2
LRG	85.22	47 eP	29 12.20	1.0	KSP	91.05	39 eP	29 41.50	2.5	EYL	1.42	18 iPn	26 50.40 1.1
	1.3s	43.30nm		5.5mb			e	33 10.50		S.D. = 0.7 on 7 of 7 obs.			
Z	21s	2.13um		5.5MsZ	ZST	92.07	41 iP	29 46.80	3.1X				
BSF	85.25	43 eP	29 11.40	-0.1	SRO	92.94	42 e(P)	29 49.80	2.1				
	1.3s	43.30nm		5.5mb	SPC	93.89	40 eP	29 54.70	2.3				
RSL	85.27	45 P	29 13.38	1.7	SPA	95.89	180 iPc	30 01.40	0.3				
LOMF	85.31	43 P	29 12.84	1.1		1.4s	46.08nm		5.8mb				
LMR	85.34	47 eP	29 12.30	0.5	OHR	96.15	48 eP	29 52.20	-10.6X				
	1.5s	52.25nm		5.5mb	SKO	96.42	47 eP	30 03.00	-0.9				
BNI	85.35	45 P	29 18.10	6.1X	NVL	97.03	161 (P)	30 08.00	2.1				
LPL	85.36	45 eP	29 13.20	1.0			ePP	34 04.00		KVT	6.04	264 iPn	29 58.30 0.3
	1.1s	17.10nm		5.2mb			eSKS	40 44.00		KAS	7.69	269 eP	30 21.00 -0.3
LPG	85.37	45 eP	29 13.50	1.2			(S)	40 58.00		NUR	22.03	334 eP	33 28.00 5.5X
	1.1s	26.85nm		5.4mb	MLR	98.61	42 eP	30 17.00	3.2X	KAF	22.79	338 eP	33 30.00 -0.1
FRF	85.42	47 eP	29 12.80	0.5	BBTK	105.23	46 ePd i f	30 56.00	12.4X		0.7s	4.30nm	4.1mb
	1.3s	39.70nm		5.5mb	MKRJ	110.40	53 PKP	35 06.00	-1.9			esP	33 34.30
RRL	85.43	45 P	29 13.66	1.1	MDSJ	110.86	53 PKP	35 13.20	4.4X	HFS	25.99	325 eP	33 57.50 -3.3X
ECH	85.47	42 P	29 13.52	1.1	MAIO	125.01	37 ePKP	35 38.00	2.2		0.8s	3.50nm	4.1mb
MOF	85.48	43 P	29 13.73	1.2	GAR	128.75	27 ePKP	35 42.60	-0.3	Z	16s	0.04um	3.0MsZ
CDF	85.54	42 P	29 14.19	1.3	WMO	129.72	9 PKP	35 42.50	-2.0	NB2	27.50	325 P	34 13.80 -0.9
WLS	85.59	42 P	29 14.04	1.0	STK	131.34	232 iPKPc	35 50.50	2.6X		0.7s	1.20nm	3.7mb
ABH	85.62	40 eP	29 15.32	2.2		0.2s	270.10nm			SSE	61.04	73 eP	38 42.00 -0.6
LSD	85.66	45 P	29 15.20	1.5	HHC	131.67	346 ePKP	35 48.00	-0.4			i	38 49.00
PZZ	85.69	46 P	29 15.40	1.7		Z	24s	2.00um		YKA	74.50	350 eP	40 08.10 1.7
GW	85.73	41 P	29 14.26	0.6	TIA	134.18	338 ePKP	35 53.00	-0.2		1.1s	0.70nm	3.6mb
RSP	85.75	45 P	29 15.61	1.6	TIY	134.38	343 ePKP	35 56.80	3.2X	S.D. = 1.2 on 6 of 8 obs.			
DOI	85.79	46 P	29 17.60	3.4X	GTA	134.84	357 ePKP	35 53.00	-1.5				
DIX	85.79	44 ePd	29 17.30	2.9X		Z	26s	1.70um		APR 30, 1991 03h 40m 35.88±0.57s			
STV	85.87	46 P	29 15.20	0.6		E	18s	0.90um		51.690 N ± 4.2km 16.206 E ± 5.7km			
ENR	85.94	46 P	29 15.91	1.0			PP	38 26.00		DEPTH = 10.0km (geophysicist)			
SBF	85.97	46 eP	29 15.50	0.4			SS	56 16.00		3.7mb (1 obs.)			
	1.2s	44.65nm		5.5mb	QIS	136.56	246 ePKP	35 58.00	-0.1	POLAND (548)			
FEL	86.07	42 P	29 16.86	1.3	SSE	136.72	330 ePKP	35 50.50	-7.6X	ML 3.4 (KRA).			

30d 03h									
KSP	0.85	176	iP	40	51.50	-0.8			
	0.3s	202.00nm							
BRG	1.64	241	iPn	41	04.80	0.0			
			iPg	41	06.70				
			iSg	41	26.50				
PRU	2.00	212	Pn	41	09.90	-0.2			
	0.8s	476.50nm							
			Pg	41	12.00				
			e	41	33.00				
			Sg	41	35.60				
CLL	2.04	261	iPnd	41	10.90	0.3			
	0.5s	48.00nm							
			iPg	41	14.70				
			iSg	41	40.20				
KRA	2.88	123	iP	41	32.00	9.4X			
			iS	42	11.00				
HOF	3.06	245	iPnc	41	25.10	-0.1			
KHC	3.06	214	iPn	41	25.00	-0.2			
			Pg	41	31.80				
			eSn	42	02.50				
			Sg	42	09.80				
MOX	3.07	252	iPn	41	25.50	0.2			
			iPg	41	34.00				
			iSg	42	12.00				
WET	3.32	221	iPnc	41	29.00	0.1			
VKA	3.43	179	ePn	41	31.00	0.5			
			iPg	41	39.90				
			i	42	22.50				
			iSg	42	24.10				
ZST	3.54	170	iPn	41	40.80	8.7X			
			i	42	19.70				
			i(Sg)	42	28.20				
SPC	3.60	133	ePn	41	44.00	11.0X			
			i(Sg)	42	31.70				
KMR	3.88	201	e(Pn)	41	37.00	0.2			
			i	42	32.70				
			iSg	42	35.00				
SRO	4.11	160	eP	42	00.80	20.7X			
			i	42	49.90				
PSZ	4.47	146	eP	41	46.30	1.1			
FUR	4.75	224	ePn	41	49.60	0.4			
KBA	4.98	203	iPnc	41	52.10	-0.5			
	0.4s	53.50nm							
			i	42	00.80				
			iSn	42	51.00				
			i	43	04.90				
			i	43	20.60				
TNS	5.12	256	ePc	41	53.70	-0.7			
ABH	5.78	255	ePg	42	03.18	-0.6			
PTJ	5.80	182	eP	42	03.50	-0.6			
WTS	5.83	277	ePn	42	05.50	1.1			
	0.6s	8.00nm				4.6mb X			
VOY	5.86	196	e(Pn)	42	18.20	13.2X			
			eSg	43	42.40				
RUP	6.14	255	ePg	42	07.81	-1.0			
VBY	6.22	186	e(Pn)	42	09.50	-0.4			
			e(Sn)	43	40.00				
MEM	6.51	264	iP	42	18.80	4.8X			
ENN	6.53	266	ePn	42	21.50	7.3X			
	0.6s	6.00nm				4.7mb X			
DOU	7.52	262	P	42	29.60	1.5			
HFS	8.58	352	eP	42	42.10	-0.9			
	0.7s	5.50nm				5.0mb X			
Z	13s	0.08um				5.0msz			
			e	42	51.30				
NRA0	9.43	346	Pn	42	53.60	-1.1			
			Sn	44	39.70				
			Lg	45	41.20				
YKA	59.72	336	eP	50	44.00	1.5			
	0.7s	0.40nm				3.7mb			
S.D. = 0.8 on 23 of 30 obs.									
* APR 30, 1991 04h 14m 00.41s									
61.040 N 150.788 W									
DEPTH = 40.3km									
SOUTHERN ALASKA (2)									
<AEIC>. ML 3.7 (AEIC), 3.3 (PMR).									
NKA	0.37	217	iPd	14	11.26	1.8			
SUA	0.43	3	iPd	14	09.97	-0.4			
			eS	14	18.05				
SLKM	0.60	152	iPc	14	11.96	-0.6			
PMS	0.63	70	iPc	14	12.56	-0.4			
SPU	0.63	284	iPc	14	12.36	-0.7			
			S	14	22.35				
CGLM	0.65	295	eP	14	12.89	-0.4			
			eS	14	22.99				
CRP	0.70	290	iPc	14	13.59	-0.5			
PWA	0.75	35	iPd	14	14.18	-0.5			
NCG	0.76	299	iPc	14	14.21	-0.6			
CKL	0.77	282	iPc	14	14.31	-0.7			
BGL	0.81	287	iPc	14	14.82	-0.7			
			S	14	26.01				
RDT	0.92	240	iPd	14	16.23	-0.9			
			iS	14	28.96				
PLRM	0.97	55	ePc	14	16.65	-1.1			
			eS	14	30.49				
PMR	0.97	55	iPc	14	17.20	-0.5			
SKT	1.01	340	iPd	14	17.30	-1.0			
			eS	14	31.15				
NNL	1.03	194	iPd	14	19.01	0.4			
DFR	1.03	245	iPc	14	17.79	-0.9			
RDN	1.10	242	iPc	14	18.68	-1.1			
RSO	1.13	240	iPc	14	19.32	-0.8			
RS2	1.13	240	ePc	14	19.33	-0.8			
RDW	1.14	241	iPc	14	19.40	-0.9			
SEW	1.15	144	eP	14	19.20	-1.0			
			eS	14	34.99				
NCT	1.15	246	iPc	14	19.62	-0.8			
			eS	14	34.83				
RED	1.16	238	iPc	14	19.60	-0.9			
			eS	14	34.61				
GHO	1.16	50	ePc	14	19.79	-0.7			
			eS	14	35.38				
KNK	1.19	71	iPc	14	20.17	-0.7			
			eS	14	36.39				
BRLK	1.28	182	eP	14	21.09	-1.1			
			eS	14	38.28				
CUT	1.39	10	iPd	14	22.74	-0.9			
SML	1.41	56	ePc	14	23.10	-0.9			
			S	14	41.00				
HOM	1.45	197	eP	14	24.35	-0.2			
CNPM	1.54	189	iPd	14	25.12	-0.7			
			eS	14	45.31				
KNIM	1.65	113	iPc	14	24.96	-2.5			
XLV	1.66	197	eP	14	26.53	-1.0			
GLI	1.81	93	iPc	14	27.18	-2.5			
SCM	1.84	63	ePc	14	28.79	-1.4			
MTU	1.88	123	eP	14	31.14	0.5			
HUR	2.02	15	eP	14	31.90	-0.8			
			S	14	56.57				
VZW	2.06	88	ePc	14	31.08	-2.3			
PDB	2.11	235	iPc	14	32.91	-1.0			
AUE	2.12	219	ePd	14	34.22	0.0			
AUH	2.14	219	eP	14	34.67	0.1			
AUI	2.16	219	eP	14	34.03	-0.7			
			eS	14	59.76				
VLZ	2.17	86	iPc	14	32.71	-2.1			
			S	14	58.86				
HIN	2.20	105	eP	14	33.73	-1.7			
SVW	2.35	274	iPc	14	36.10	-1.4			
KLU	2.40	77	iPc	14	35.90	-2.3			
TRF	2.43	5	ePd	14	38.18	-0.6			
TOA	2.45	62	iPd	14	38.60	-0.4			
CVA	2.52	99	eP	14	37.10	-2.7			
RND	2.54	20	ePd	14	38.51	-1.7			
CDD	2.56	215	ePd	14	39.79	-0.6			
SYI	2.57	199	ePd	14	39.60	-0.9			
			S	15	09.79				
MCNL	2.57	225	eP	14	39.71	-0.9			
TZL	2.76	66	eP	14	42.83	-0.4			
SGAM	2.79	99	eP	14	40.16	-3.5			
MCK	2.84	17	eP	14	44.56	0.2			
			eS	15	15.74				
SDG	2.90	57	ePc	14	44.07	-1.2			
RAGM	3.07	100	eP	14	43.84	-3.9			
TTA	3.11	310	iPc	14	46.80	-1.5			
PAX	3.17	50	eP	14	48.23	-0.9			
BWN	3.20	10	eP	14	48.22	-1.3			

TOA	82.66	20	eP	54	40.70	1.0	PDB	0.71	281	iPc	04	05.09	-0.8	79 obs. associated			
IMA	83.38	15	eP	54	44.00	0.7				eS	04	17.74		APR 30, 1991 07h 13m 27.56± 1.36s			
	0.6s		4.30nm			4.4mb	RED	0.76	1	iPd	04	05.65	-0.8	5.063 N ± 5.2km 125.332 E ± 6.1km			
FBA	84.12	18	ePc	54	46.60	-0.3				eS	04	18.73		DEPTH = 253.5 ± 14.4 km			
MWC	84.76	53	eP	54	50.00	-1.0	RSO	0.80	2	iPd	04	06.30	-0.8	4.8mb (27 obs.)			
ISA	84.90	52	eP	54	52.00	0.5	RS2	0.81	2	iPd	04	06.36	-0.7	MINDANAO, PHILIPPINE ISLANDS (259)			
SBB	85.09	53	eP	54	53.00	0.5	CNPM	0.81	99	iPc	04	06.16	-0.7	TSM 7.28 264 ePc 15 12.50 0.0			
PLM	85.43	55	eP	54	54.00	-0.3				eS	04	19.28		AAI 9.15 162 ePc 15 29.90 -6.4X			
CLC	85.62	52	eP	54	55.00	0.0	RDW	0.82	360	iPd	04	06.46	-0.8	eS 16 55.20			
GSC	86.07	53	eP	54	57.00	-0.3	CDD	0.85	211	iPd	04	06.33	-1.0	QIZ 20.52 314 Pc 17 47.60 -0.1			
GLA	86.98	55	eP	55	03.00	1.4				eS	04	20.02		eS 21 17.00			
PNT	88.71	39	eP	55	09.00	-0.5	NNL	0.85	63	iPc	04	07.42	0.1	PJG 21.04 65 eP 17 53.80 1.0			
LRM	92.26	44	eP	55	26.50	0.3	RDN	0.86	1	iPd	04	06.85	-0.7	GUA 21.06 65 eP 17 54.10 1.1			
SES	94.33	39	eP	55	35.00	-0.3	NCT	0.91	356	iPd	04	07.24	-0.8	0.3s 187.01nm 6.1mb X			
YKA	95.52	27	eP	55	38.70	-1.7	MCNL	0.92	239	iPc	04	07.09	-1.0	KGM 22.18 263 ePd 18 06.00 2.2			
	0.4s		1.60nm			4.6mb				eS	04	21.01		IPM 24.23 270 ePd 18 25.10 1.9			
KAF	122.80	339	iPKP	01	09.70	-0.3	DFR	0.94	4	iPd	04	07.70	-0.7	0.6s 57.40nm 5.3mb			
	0.5s		2.90nm				RDT	0.94	12	iPd	04	07.41	-1.0	LAT 24.56 118 iPd 18 27.32 1.0			
			eS	01	10.40					eS	04	21.97		SNG 24.66 276 eP 18 21.20 -6.0X			
NUR	124.48	338	iPKP	01	14.00	0.6	BRLK	0.98	83	iPc	04	07.76	-1.0	1.0s 134.00nm 5.4mb			
NB2	128.18	345	PKP	01	21.00	0.4				eS	04	22.01		WB2 26.39 161 eP 18 41.00 -1.9			
	0.6s		1.50nm				SYI	1.08	168	iPd	04	09.24	-0.7	0.9s 15.30nm 4.6mb			
HFS	128.29	343	ePKP	01	21.00	0.3				eS	04	24.39		PSI 26.45 266 ePd 18 47.80 4.3X			
	0.4s		0.70nm				NKA	1.34	35	ePc	04	13.96	0.8	MBL 26.61 192 iPd 18 43.00 -1.9			
Z	11s		0.02um			4.1MsZx	SLKM	1.55	56	ePc	04	14.83	-1.1	0.7s 75.00nm 5.4mb			
LPF	142.96	347	ePKP	01	46.30	-2.0	CKL	1.56	8	iPd	04	15.26	-0.9	NST 26.90 295 eP 18 49.00 1.5			
TCF	143.71	342	ePKP	01	48.40	-1.3	SPU	1.57	13	iPd	04	15.31	-0.9	KHT 28.02 292 eP 18 58.00 0.4			
	0.9s		6.55nm							S	04	35.05		BDT 28.48 297 eP 19 01.00 -0.6			
SBF	143.91	335	ePKP	01	49.00	-1.2	BGL	1.62	7	iPd	04	16.15	-0.8	1.0s 64.20nm 5.2mb			
	0.8s		21.50nm				CRP	1.64	11	iPd	04	16.51	-0.8	OIS 29.06 152 eP 19 06.00 -0.8			
LSF	143.95	343	ePKP	01	48.90	-1.2	SEW	1.75	74	eP	04	16.96	-1.5	i 19 47.00			
	1.0s		18.00nm				NCG	1.78	10	iPd	04	18.19	-0.9	NANU 29.08 199 iPd 19 16.00 9.1X			
MFF	144.09	345	ePKP	01	49.40	-0.9	SVW	2.02	317	iPd	04	21.30	-0.9	CHG 29.15 300 ePc 19 08.20 0.6			
PGF	144.27	332	ePKP	01	50.50	-0.4	SUA	2.08	28	iPd	04	22.33	-0.7	0.8s 23.32nm 4.9mb			
	0.6s		18.05nm							S	04	48.16		ASPA 29.75 164 iPd 19 12.00 -0.8			
FRF	144.49	335	ePKP	01	50.90	-0.2	PMS	2.26	44	ePc	04	24.12	-1.3	0.3s 16.90nm 5.1mb			
	0.7s		17.65nm				SKT	2.41	14	iPd	04	26.13	-1.4	iPcP 22 11.10			
LRG	144.69	335	ePKP	01	51.80	0.4				eS	04	55.06		iS 23 52.70			
	1.2s		41.65nm				PWA	2.46	35	ePd	04	26.91	-1.2	WARB 31.09 178 iPd 19 24.80 0.4			
LMR	144.73	335	ePKP	01	51.80	0.3	KNIM	2.64	73	iPc	04	27.94	-2.6	0.6s 32.00nm 5.1mb			
	1.0s		20.00nm				PLRM	2.65	41	ePd	04	28.63	-2.1	XAN 32.61 334 Pc 19 36.50 -1.1			
RJF	144.81	342	ePKP	01	52.10	0.5				S	04	58.61		MAT 33.49 19 eP 19 43.00 -2.0			
	1.2s		41.65nm				PMR	2.65	41	ePd	04	29.10	-1.6	0.9s 21.01nm 4.8mb			
CAF	144.98	341	ePKP	01	53.20	1.3				eS	04	59.50		FORR 35.81 176 iPd 20 04.10 -0.5			
	1.4s		21.80nm				KNK	2.78	49	iPc	04	30.25	-2.3	0.3s 16.00nm 5.0mb			
SOB1	145.06	126	ePKP	01	52.50	-0.4	GHO	2.85	40	ePc	04	31.32	-2.3	COOL 35.97 186 eP 20 05.00 -1.0			
LFF	145.37	343	ePKP	01	53.38	0.9	CUT	3.02	23	eP	04	34.32	-1.4	BAL 36.41 193 iPd 20 09.20 -0.6			
	0.6s		6.30nm				SML	3.08	44	ePd	04	34.37	-2.3	0.5s 40.00nm 5.2mb			
LPO	145.47	342	ePKP	01	54.20	1.5	GLI	3.10	64	iPc	04	33.68	-3.2	LZH 36.66 330 eP 20 10.50 -1.5			
	0.8s		8.05nm				HIN	3.25	74	eP	04	36.13	-2.9	1.4s 27.00nm 4.6mb			
S.D. = 0.9 on 40 of 41 obs.							VZW	3.41	63	eP	04	38.42	-2.8	KLB 37.16 191 eP 20 15.40 -0.6			
% APR 30, 1991 06h 50m 07.32± 0.71s							SCM	3.46	49	ePc	04	39.69	-2.3	0.3s 10.00nm 4.8mb			
44.547 N ± 11.3km 9.625 E ± 6.8km							VLZ	3.53	63	eP	04	40.03	-2.9	MUN 37.85 193 iPd 20 21.60 -0.1			
DEPTH = 10.0km (geophysicist)							TTA	3.63	336	iPd	04	42.80	-1.5	0.6s 56.00nm 5.3mb			
NORTHERN ITALY (545)							CVA	3.64	73	ePc	04	41.19	-3.2	39.57 5 Pd 20 35.50 -0.2			
BOB	0.25	330	Pc	50	12.70	0.0	HUR	3.66	23	ePd	04	43.59	-1.1	0.8s 20.00nm 4.6mb			
			eSg	50	17.30		KLU	3.86	59	ePc	04	44.78	-2.8	RKG 39.71 191 eP 20 42.00 5.0X			
MME	0.85	114	P	50	22.80	-1.1	SGAM	3.90	74	ePc	04	44.63	-3.4	0.5s 50.00nm 5.2mb			
			eSg	50	35.40		TRF	3.99	16	eP	04	47.62	-1.8	STK 39.87 158 eP 20 39.20 0.8			
BDI	0.85	124	P	50	24.00	0.2	TOA	4.06	50	eP	04	48.70	-1.7	0.7s 7.60nm 4.2mb			
			eSg	50	36.10		RAGM	4.14	76	eP	04	48.56	-2.9	GTA 41.25 330 P 20 50.00 0.3			
CKI	0.97	263	P	50	25.80	0.0	RND	4.21	25	ePd	04	50.32	-2.1	0.6s 69.00nm 5.2mb			
			eSg	50	40.90		TZL	4.33	53	eP	04	51.61	-2.4	PKI 44.07 305 P 21 12.20 -0.7			
DOI	1.70	269	P	50	37.20	-0.1	HMT	4.34	77	eP	04	50.34	-3.9	KKN 44.26 305 P 21 13.66 -0.6			
			eSn	51	00.90		MCK	4.48	23	eP	04	54.06	-2.1	0.6s 20.00nm 4.6mb			
SFI	1.72	111	P	50	38.30	0.9	SDG	4.55	48	eP	04	54.48	-2.6	DMN 44.33 305 P 21 14.28 -0.6			
			eSn	51	00.00		GLB	4.79	64	ePc	04	57.04	-3.3	0.8s 25.00nm 4.6mb			
S.D. = 0.8 on 6 of 6 obs.							BWN	4.79	18	eP	04	58.35	-2.1	GKN 44.86 305 P 21 18.30 -0.7			
& APR 30, 1991 07h 03m 49.26s							PAX	4.85	44	eP	04	58.69	-2.6	0.4s 14.00nm 4.6mb			
59.661 N 152.804 W							CROM	4.95	73	eP	04	59.44	-3.3	BFD 44.99 160 iPd 21 21.00 1.5			
DEPTH = 87.2km							WAX	5.05	77	eP	05	00.38	-3.7	KDD 47.68 279 eP 21 42.50 1.2			
SOUTHERN ALASKA (2)							TGL	5.10	73	eP	05	01.63	-3.1	GBA 47.94 284 Pc 21 42.70 -0.2			
<AEIC>.							NEA	5.23	18	ePd	05	03.78	-2.8	0.8s 14.00nm 4.3mb			
AUE	0.42	224	ePd	04	02.80	-0.5	DDM	5.29	36	eP	05	04.98	-2.5	DZM 48.44 125 iPd 21 47.90 1.1			
			eS	04	12.46		WRH	5.31	23	ePd	05	04.47	-3.2	WMO 50.84 325 eP 22 05.00 0.3			
AUH	0.44	228	ePd	04	03.20	-0.3	BALM	5.37	71	ePc	05	05.31	-3.3	GAR 60.00 313 eP 23 10.10 0.0			
			iS	04	13.23		HDA	5.50	28	eP	05	07.48	-2.8	OBN 85.16 325 iP 25 37.00 0.7			
AUI	0.46	224	iPd	04	03.10	-0.4	CCB	5.52	23	eP	05	07.13	-3.5	0.8s *****nm 8.2mb			
			eS	04	13.61		RDS	5.62	21	eP	05	09.00	-3.0				
HOM	0.59	90	iPc	04	04.47	-0.2	MDM	5.73	20	eP	05	10.20	-3.3				
			eS	04	15.70		FBA	5.75	22	ePc	05	11.10	-2.7				
XLV	0.59	110	ePc	04	04.06	-0.6	DOT	5.77	42	eP	05	11.10	-3.0				
			eS	04	16.00		CTGM	5.85	72	eP	05	12.79	-2.5				
							TMW	5.96	48	eP	05	13.92	-2.7				
							IMA	6.44	357	eP	05	21.30	-2.1				
							PNL	6.79	84	iPc	05	24.72	-3.4				
							INK	12.05	36	eP	06	36.00	-3.1				

30d 07h

KEV 88.17 340 eP 25 48.00 -2.6X
 SOD 88.71 338 iP 25 52.70 -0.5
 INK 89.44 21 eP 25 57.00 0.4
 KAF 89.78 332 eP 25 57.50 -0.7
 0.6s 7.10nm 4.8mb
 esP 25 59.60
 NUR 90.87 331 eP 26 03.00 -0.2
 HFS 96.20 332 eP 26 26.50 -1.2
 0.4s 1.20nm 4.5mb
 Z 13s 0.04um 4.1mszx
 NB2 96.98 333 P 26 30.60 -0.7
 0.7s 2.60nm 4.7mb
 YKA 98.86 24 eP 26 40.90 1.1
 0.8s 0.60nm 4.1mb
 KIC 128.88 282 PKP 32 08.60 1.0
 TIC 129.10 283 PKP 32 09.20 1.2
 LPB 162.58 132 (PKP) 33 06.00 4.8X
 ZOBO 162.73 131 PKP 33 05.00 3.5X
 S.D. = 1.0 on 49 of 57 obs.

? APR 30, 1991 07h 57m 13.76 ± 5.35s
 44.216 N ± 32.9km 7.455 E ± 14.7km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.7 (LDG).

AUTN 0.22 185 Pg 57 18.55 -0.1
 Sg 57 22.75
 SAOF 0.24 162 Pg 57 18.81 -0.1
 TOUF 0.25 216 Pg 57 18.84 -0.3
 AURF 0.34 196 Pg 57 20.85 0.0
 Sg 57 26.91
 SBF 0.35 182 Pg 57 21.20 0.1
 Sg 57 27.00
 FRF 0.88 222 Pg 57 30.90 0.3
 Sg 57 43.60
 LRG 1.10 227 Pg 57 34.20 -0.2
 Sg 57 50.50
 LMR 1.12 218 Pg 57 34.90 0.2
 Sg 57 51.40
 S.D. = 0.2 on 8 of 8 obs.

APR 30, 1991 08h 25m 19.48 ± 0.45s
 8.956 S ± 9.3km 157.887 E ± 7.2km
 DEPTH = 33.0km (normol)
 4.4mb (5 obs.)

SOLOMON ISLANDS (193)

VSG 1.83 99 iP 25 48.00 -1.1
 iS 26 22.00
 SVO 1.91 96 iP 25 50.00 -0.4
 iS 26 22.00
 HNR 2.09 103 eP 25 52.00 -0.8
 eS 26 24.00
 DZM 15.42 149 iPd 28 57.00 0.6
 RMO 19.47 205 iPc 29 45.20 -1.4
 OIS 21.08 235 eP 30 04.00 0.5
 CMS 25.07 205 eP 30 43.00 0.5
 WB2 25.23 242 iPc 30 42.90 -1.3
 0.8s 9.10nm 4.4mb
 ASPA 27.21 235 eP 31 02.60 0.2
 0.9s 6.20nm 4.3mb
 STK 27.37 211 iPc 31 05.50 1.7
 0.7s 4.50nm 4.2mb
 TTA 79.87 20 eP 37 26.60 0.4
 IMA 82.75 18 eP 37 41.50 0.2
 GBA 82.92 285 Pc 37 41.00 -2.0
 0.8s 3.20nm 4.5mb
 FBA 83.92 20 eP 37 46.40 -0.7
 PAS 90.00 56 eP 38 18.00 0.7
 ISA 90.04 54 eP 38 19.00 1.4
 MWC 90.10 56 eP 38 14.00 -4.1X
 INK 90.54 20 eP 38 18.00 -1.1
 CLC 90.77 54 eP 38 23.00 2.1
 PLM 90.93 57 eP 38 23.00 1.1
 GSC 91.31 55 eP 38 19.00 -4.5X
 YKA 96.72 28 eP 38 46.60 -0.9
 1.0s 1.50nm 4.5mb
 LPB 127.93 119 ePKP 44 16.00 -9.1X
 ZOBO 128.02 119 PKP 44 26.00 0.5
 IFR 150.97 330 iPKP 45 10.50 5.2X
 SOB1 154.01 133 (PKP) 45 20.00 10.1X
 S.D. = 1.2 on 21 of 26 obs.

* APR 30, 1991 08h 29m 57.33 ± 1.03s
 42.354 N ± 19.6km 43.463 E ± 11.2km
 DEPTH = 10.0km (geophysicist)

4.2mb (8 obs.)
 WESTERN CAUCASUS (362)

TAB 4.81 152 eP 31 26.00 14.3X
 MLR 13.01 290 ePc 33 05.00 0.0
 e 35 45.00
 e 43 41.00
 OBN 13.53 343 eP 33 12.00 0.5
 e 35 51.00
 LR 37 30.00
 GAR 20.61 90 eP 34 42.00 2.7
 NUR 21.49 334 eP 34 56.00 8.1X
 KHC 21.83 298 P 34 53.50 1.9
 i 37 25.00
 KAF 22.27 339 iP 34 56.40 0.7
 0.3s 1.50nm 3.9mb
 esP 34 58.80
 CLL 22.54 304 eP 34 59.00 0.5
 UPF 23.63 327 iP 35 08.70 -0.3
 PGF 25.33 282 eP 35 35.70 9.9X
 0.8s 9.40nm 4.5mb
 HFS 25.43 325 eP 35 25.20 -1.1
 0.8s 14.60nm 4.7mb
 Z 17s 0.18um 3.7mszx
 e 35 33.60
 e 35 37.50
 LR 45 38.00
 SBF 26.22 286 eP 35 34.70 0.7
 LPG 26.48 289 eP 35 36.50 -0.1
 0.8s 4.05nm 4.2mb
 LPL 26.49 289 eP 35 35.90 -0.8
 1.0s 9.00nm 4.4mb
 NB2 26.94 325 P 35 39.20 -1.2
 0.8s 2.30nm 3.9mb
 LMR 26.98 285 eP 35 34.10 -6.7X
 AVF 28.69 293 eP 35 53.00 -3.3X
 0.8s 6.05nm 4.4mb
 GKN 36.21 100 P 37 00.00 -2.3
 YKA 74.02 350 eP 41 33.40 -1.1
 0.6s 0.50nm 3.7mb
 S.D. = 1.4 on 14 of 19 obs.

* APR 30, 1991 08h 32m 25.22 ± 0.83s
 42.071 N ± 11.6km 43.888 E ± 14.2km
 DEPTH = 10.0km (geophysicist)
 4.4mb (4 obs.)

WESTERN CAUCASUS (362)

TAB 4.41 154 eP 33 34.00 0.1
 KVT 5.96 263 ePn 33 55.10 -0.6
 MAIO 13.40 110 eP 35 43.00 5.0X
 GAR 20.29 90 eP 37 09.00 5.1X
 NUR 21.88 334 eP 37 19.00 -0.7
 e 37 25.00
 KAF 22.65 338 eP 37 29.50 2.2X
 1.0s 17.30nm 4.5mb
 esP 37 33.10
 CLL 22.96 304 eP 37 32.00 1.4
 1.2s 23.00nm 4.6mb
 HFS 25.84 325 eP 37 58.00 -0.1
 0.7s 4.00nm 4.2mb
 Z 12s 0.02um 2.9mszx
 e 38 12.50
 FRB 61.87 332 eP 42 47.00 0.5
 YKA 74.36 350 eP 44 03.70 -0.6
 1.1s 2.00nm 4.1mb
 SES 85.34 344 eP 45 06.00 2.5X
 S.D. = 1.0 on 7 of 11 obs.

APR 30, 1991 08h 40m 58.65 ± 0.77s
 43.967 N ± 6.1km 19.344 E ± 9.5km
 DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)

ML 3.3 (TTG).

IVA 1.17 160 iPg 41 20.25 -0.3
 iSg 41 40.26
 BEO 1.17 43 iPg 41 19.50 -1.0
 iSg 41 36.80
 NKY 1.18 192 iPg 41 20.58 -0.2
 iSg 41 39.20
 BRY 1.21 209 iPg 41 18.75 -2.6
 iSg 41 38.96
 PVY 1.45 161 iPg 41 25.51 0.5
 iSg 41 47.53
 TTG 1.54 182 iPnc 41 27.13 1.0
 iSn 41 48.81

HCV 1.64 202 iPnd 41 26.86 -0.7
 iSn 41 51.93
 BDV 1.72 193 iPnc 41 29.66 0.8
 iSn 41 54.58
 ULC 2.00 182 iPnd 41 34.23 1.3
 iSn 42 01.05
 HVAR 2.25 250 iPn 41 32.50 -3.9X
 iSn 42 02.00
 BZS 2.31 44 ePc 41 33.00 -4.3X
 SKO 2.52 142 ePn 41 24.00 -16.3X
 OHR 3.05 159 ePn 41 52.00 4.2X
 PTJ 3.09 310 ePn 41 48.70 0.3
 eSn 42 27.50
 VBY 3.29 299 ePn 41 52.00 0.7
 eSn 42 37.10
 ZST 4.51 341 eP 42 43.80 35.3X
 S.D. = 1.3 on 11 of 16 obs.

? APR 30, 1991 09h 04m 52.83 ± 2.53s
 40.174 N ± 15.0km 29.485 E ± 31.3km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.6 (ISK).

IZI 0.16 357 iPg 04 56.90 0.3
 eSg 04 58.90
 YLV 0.40 348 iPg 05 00.90 -0.2
 HRT 0.66 12 ePg 05 05.90 -0.1
 DST 0.87 230 ePn 05 09.60 0.0
 S.D. = 0.4 on 4 of 4 obs.

* APR 30, 1991 10h 39m 44.35 ± 1.01s
 42.551 N ± 16.6km 43.268 E ± 10.6km
 DEPTH = 10.0km (geophysicist)

3.8mb (4 obs.)

WESTERN CAUCASUS (362)

KVT 5.59 257 ePn 41 09.60 0.0
 GAR 20.76 91 eP 44 28.10 0.3
 NUR 21.25 334 eP 44 22.00 -10.5X
 KAF 22.03 339 eP 44 40.20 -0.2
 0.3s 1.00nm 3.7mb
 isP 44 44.80
 HFS 25.18 325 eP 45 11.70 0.6
 0.9s 16.10nm 4.7mb
 Z 14s 0.03um 2.9mszx
 e 45 15.20
 e 45 18.60
 e 45 21.10
 NB2 26.70 325 P 45 25.40 0.2
 0.7s 1.70nm 3.8mb
 YKA 73.81 350 eP 51 19.30 -0.9
 0.6s 0.40nm 3.6mb
 S.D. = 0.7 on 6 of 7 obs.

% APR 30, 1991 10h 56m 16.46 ± 3.27s
 39.571 N ± 24.2km 29.436 E ± 15.6km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.7 (ISK).

DST 0.63 273 ePg 56 29.00 -0.1
 eSg 56 40.00
 IZI 0.77 2 iPg 56 30.80 -0.7
 YLV 1.00 357 iPn 56 35.80 0.4
 KCT 1.07 310 ePn 56 36.80 0.2
 EYL 1.14 29 ePn 56 38.00 0.2
 S.D. = 0.6 on 5 of 5 obs.

APR 30, 1991 11h 15m 29.48 ± 0.27s
 42.599 N ± 6.8km 43.490 E ± 3.0km
 DEPTH = 10.0km (geophysicist)

4.8mb (34 obs.) 4.0msz (3 obs.)

WESTERN CAUCASUS (362)

TAB 5.02 153 eP 16 54.00 7.3X
 BBTk 8.54 255 eP 17 37.00 0.8
 HRT 10.49 265 eP 18 01.00 -1.9
 DST 11.61 260 eP 18 19.00 0.8
 VRI 12.46 291 ePc 18 27.00 -2.7X
 MLR 12.95 289 eP 18 37.00 0.7
 OBN 13.30 343 eP 18 42.00 1.3
 N 10s 0.60um
 eS 21 11.00
 CMP 13.56 288 ePd 18 58.00 13.7X
 DEV 15.11 290 ePd 19 14.00 9.5X
 VAY 15.62 272 ePn 19 16.60 5.5X

SKO	16.33	275	ePn	19 06.80	-13.5X		0.9s	13.90nm	4.7mb	<AEIC>. Felt (IV) at Skwentna.					
OHR	16.97	273	ePn	19 31.00	2.6X	MAF	29.23	291 eP	21 32.90	-0.4	CUT	0.50	106 iPc	55 03.87	-0.1
SPC	17.43	300	eP	19 31.30	-3.0X		1.0s	8.00nm	4.5mb		SKT	0.58	191 iPc	55 04.79	0.1
			e	24 42.00		LSF	29.93	292 eP	21 38.50	-1.2			eS	55 16.41	
SRO	18.45	295	iP	20 01.80	15.0X	GRR	31.28	296 eP	21 50.50	-0.9	HUR	0.88	60 ePc	55 07.37	-0.2
ZST	19.31	296	eP	19 57.60	0.3		9.0s	13.10nm	3.8mb X				iS	55 21.32	
HVAR	19.80	281	iP	20 02.00	-0.8	WMO	31.96	72 P	21 58.50	0.9	TRF	1.02	27 ePd	55 09.34	0.0
PTJ	19.96	289	eP	20 03.00	-1.5	EKA	32.53	309 Pc	22 02.70	0.3	SUA	1.12	166 iPd	55 10.36	-0.1
KSP	20.30	303	eP	20 08.10	0.1		1.1s	10.10nm	4.7mb				eS	55 27.06	
	1.2s	34.00nm		4.6mb		GKN	36.23	100 P	22 34.20	-0.5	PWA	1.12	143 iPd	55 10.17	-0.1
VBY	20.46	288	e(P)	20 09.00	-0.7	DMN	36.80	100 P	22 39.60	0.1	NCG	1.22	200 iPd	55 11.51	-0.1
GAR	20.59	91	eP	20 11.60	0.3	KKN	36.82	100 P	22 39.74	0.1			eS	55 28.81	
PRU	21.23	300	P	20 20.80	3.2X		1.1s	36.00nm	5.1mb		CRP	1.35	198 iPd	55 13.27	0.0
NUR	21.28	334	iP	20 17.30	-0.6	PKI	37.04	100 P	22 41.30	-0.4	GHO	1.36	124 iPd	55 13.18	-0.2
	1.1s	45.60nm		4.8mb		GUN	37.19	99 P	22 42.72	-0.2			eS	55 31.51	
VOY	21.39	289	eP	20 19.00	-0.4		1.2s	92.00nm	5.4mb		BGL	1.39	202 iPd	55 14.03	0.3
DUI	21.51	277	P	20 24.00	3.4X	GBA	41.13	124 Pd	23 15.80	0.5	PMR	1.40	132 iPd	55 13.50	-0.2
KHC	21.74	298	iP	20 23.50	0.8		1.2s	12.00nm	4.5mb		PLRM	1.40	132 ePd	55 12.97	-0.8
	Z 14s	0.40um		4.0MszX		DAG	42.66	342 iPc	23 28.00	0.8	RND	1.41	51 iPc	55 13.68	-0.3
	E 14s	0.30um					0.7s	8.90nm	4.6mb				iS	55 32.03	
BRG	21.76	303	eP	20 26.40	3.5X	LZH	46.27	77 eP	23 55.50	-1.4	SPU	1.42	195 iPd	55 13.83	-0.2
	1.4s	19.00nm		4.3mb			1.4s	38.00nm	5.2mb				eS	55 32.62	
		e		20 57.00		Z 18s	0.34um	4.3Msz			CKL	1.44	200 iPd	55 14.52	0.1
KAF	22.05	338	eP	20 26.10	0.5	BTO	48.62	69 eP	24 11.00	-4.2X	PMS	1.55	147 ePd	55 14.94	-0.7
	0.8s	34.20nm		4.8mb		CD2	48.74	83 eP	24 16.50	0.2	SML	1.58	117 ePd	55 15.51	-0.6
		esP		20 33.20		HHC	49.57	68 P	24 23.80	1.2	MCK	1.60	41 ePd	55 16.13	-0.2
AZI	22.19	279	P	20 28.90	1.7	XAN	50.90	77 Pd	24 37.70	5.0X			eS	55 37.31	
CLL	22.42	303	iP	20 30.60	1.1	TIY	51.60	71 eP	24 36.80	-1.2	KNK	1.76	129 ePd	55 17.60	-0.8
	2.0s	79.00nm		4.8mb		YAK	51.86	37 iPd	24 39.50	-0.1			eS	55 40.65	
		eS		24 40.00		CHG	52.21	99 eP	24 42.10	-0.7	NKA	1.81	179 ePd	55 21.15	2.1
QUE	22.50	116	eP	20 33.10	2.4	GYA	53.30	86 P	24 51.00	0.0	BWN	1.83	26 iPd	55 19.35	0.1
MNS	22.66	280	P	20 36.60	4.6X	LKO	53.98	247 P	24 51.24	-4.6X			eS	55 41.41	
CTI	22.96	290	P	20 38.80	3.9X	KIC	55.73	244 P	25 06.50	-2.2	SCM	2.00	109 ePc	55 20.55	-1.1
CRE	22.98	283	P	20 38.10	2.9	CN2	57.32	58 P	25 18.60	-1.1			eS	55 46.37	
SFI	23.01	284	P	20 37.60	2.3	NJ2	59.03	73 Pd	25 31.50	-0.3	RDT	2.05	195 ePd	55 21.91	-0.4
PGD	23.11	284	P	20 38.70	2.2	SSE	61.21	73 P	25 46.50	-0.3	DFR	2.07	199 ePd	55 22.12	-0.5
MOX	23.18	301	eP	20 42.00	5.0X		1.0s	12.00nm	5.0mb		SLKM	2.11	165 eP	55 22.12	-1.0
		eS		25 00.00		FRB	61.26	332 eP	25 46.00	-0.6	NCT	2.14	202 ePd	55 23.53	0.0
GRF	23.32	299	eP	20 40.00	1.6	SCH	66.30	324 eP	26 19.00	-0.9	RDN	2.16	200 iPd	55 23.60	-0.2
UPP	23.43	326	iP	20 38.20	-1.1	INK	69.40	359 eP	26 38.00	-0.9	RDW	2.20	200 iPd	55 24.47	0.1
		iS		24 56.00		FBA	72.48	5 eP	26 56.70	-0.9	TTA	2.20	282 iPc	55 24.80	0.4
MME	23.80	285	P	20 46.00	2.7		1.0s	18.00nm	5.1mb		RS2	2.21	199 eP	55 24.54	0.0
OSS	23.97	291	ePd	20 45.70	0.9	YKA	73.79	350 eP	27 04.10	-1.1	RSO	2.21	199 eP	55 23.73	-0.8
VDL	24.44	291	ePd	20 50.20	0.7		1.0s	7.20nm	4.7mb		RED	2.25	199 eP	55 24.78	-0.3
BOB	24.61	287	P	20 55.70	4.7X	SVW	75.48	9 eP	27 16.20	1.1	NEA	2.27	25 iPd	55 24.06	-1.1
LLS	24.75	292	ePd	20 52.20	-0.2	FFC	78.67	340 iPc	27 32.80	-0.1	WRH	2.41	35 iPd	55 26.19	-0.8
SLE	25.06	294	ePd	20 54.80	-0.4		0.9s	16.00nm	5.1mb				iS	55 53.13	
HFS	25.24	324	eP	20 57.00	0.3	EDM	82.49	346 iPd	27 54.00	0.7	TOA	2.43	98 iPc	55 27.40	-0.1
	0.9s	74.60nm		5.4mb		SES	84.75	344 eP	28 05.00	0.2	SVW	2.51	237 iPd	55 28.90	0.4
	Z 19s	0.49um		4.0Msz		PNT	87.27	349 eP	28 17.00	-0.3	NNL	2.52	180 eP	55 29.88	1.4
		e		21 04.30			0.9s	10.00nm	5.1mb		GLI	2.61	128 ePd	55 28.06	-1.8
PCP	25.28	286	P	20 56.39	-1.0	NEW	87.92	347 eP	28 21.10	0.7	SEW	2.61	159 eP	55 28.66	-1.1
PGF	25.30	282	eP	20 58.90	1.3		1.0s	32.50nm	5.6mb		CCB	2.62	35 iPd	55 29.00	-0.9
	0.9s	24.55nm		4.9mb		LRM	89.39	343 eP	28 28.30	0.5	SDG	2.67	88 ePc	55 29.77	-0.9
MMK	25.52	290	ePd	20 59.10	-0.7	BW06	91.62	340 iP	28 38.30	0.2	THY	2.68	69 eP	55 29.58	-1.2
FIN	25.57	286	P	20 59.77	-0.3		1.0s	4.50nm	4.8mb				iS	56 03.89	
ROB	25.79	286	P	21 01.93	-0.3	GLD	93.26	336 eP	28 46.10	0.4	RDS	2.68	30 iPd	55 30.12	-0.7
DIX	25.90	290	ePd	21 04.10	0.7	GOL	93.36	336 eP	28 46.00	-0.2			eS	56 00.13	
RSP	26.11	288	P	21 03.36	-1.8		1.0s	6.50nm	5.0mb		HDA	2.70	44 ePd	55 30.01	-1.0
ENR	26.12	286	P	21 05.10	-0.2	TUL	93.47	328 eP	28 46.20	-0.2	VZW	2.70	121 ePc	55 29.32	-1.8
LSD	26.14	289	P	21 05.92	0.3		0.5s	10.20nm	5.5mb		PAX	2.72	78 eP	55 30.69	-0.6
SBF	26.17	285	eP	21 05.90	0.2	PV09	95.53	339 iP	28 57.50	1.2	KLU	2.75	110 iPc	55 29.88	-1.9
	0.9s	24.55nm		4.9mb		TNP	97.80	345 eP	29 07.00	0.5	VLZ	2.75	119 ePc	55 29.69	-2.0
STV	26.19	286	P	21 05.10	-0.8		1.0s	4.00nm	5.0mb				eS	56 01.36	
EMS	26.23	290	ePd	21 05.80	-0.6	WB2	103.84	104 ePd	29 38.00	4.6X	DDM	2.76	61 eP	55 31.89	0.0
PZZ	26.31	287	P	21 06.13	-0.9		0.9s	0.80nm	4.5mb		MDM	2.78	28 iPd	55 31.29	-0.8
LPG	26.42	289	eP	21 07.70	-0.5		S.D. = 1.0	on 94 of 114 abs.				eS	56 01.30		
	1.2s	29.75nm		4.9mb			-----								
LPL	26.43	289	eP	21 07.80	-0.4		? APR 30, 1991	11h 16m 16.61± 4.00s			TZL	2.79	98 eP	55 31.39	-0.9
	1.0s	17.00nm		4.7mb			39.675 N ±27.9km	29.347 E ±23.8km			KNIM	2.79	141 ePd	55 29.35	-3.0
SOD	26.45	345	iP	21 08.20	0.2		DEPTH = 10.0km	(geophysicist)			FBA	2.83	32 iPd	55 32.60	-0.2
		i		21 23.80			TURKEY	(366)			GLM	3.00	34 iPd	55 34.39	-0.8
RRL	26.47	288	P	21 08.28	-0.4		MD 3.1 (ISK).				CNPM	3.03	179 ePd	55 35.41	-0.2
RSL	26.48	289	P	21 08.47	-0.2						PDB	3.11	208 ePd	55 36.34	-0.2
HAU	26.50	295	eP	21 07.60	-1.0	DST	0.56	263 ePg	16 28.00	0.0	XLV	3.11	184 eP	55 36.84	0.2
	1.0s	12.00nm		4.5mb				eSg	16 40.00		MTU	3.12	144 eP	55 34.73	-2.0
	Z 20s	0.17um		3.6Msz		IZI	0.67	8 ePn	16 28.80	-1.1	AUH				

30d 11h

TGL 4.42 110 eS 56 39.22
 BALM 4.51 106 ePc 55 53.56 -1.5
 FYU 4.81 30 ePd 55 59.23 -0.8
 CTGM 4.99 104 eP 56 00.33 -2.5
 ANM 6.60 294 e(P) 56 26.00 1.1
 BRW 9.04 349 e(P) 56 56.60 -1.7
 INK 9.36 44 eP 57 01.50 -1.1
 YKA 16.79 74 eP 58 38.40 -0.7
 0.6s 0.40nm 2.8mb X
 76 obs. associated

% APR 30, 1991 12h 27m 43.54 ± 0.87s
 40.219 N ± 10.1km 29.244 E ± 8.7km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.7 (ISK).

IZI 0.21 56 iPg 27 48.20 0.0
 eSg 27 54.20
 YLV 0.36 16 ePn 27 52.10 1.1
 KCT 0.68 273 ePn 27 56.70 -0.3
 HRT 0.68 28 ePn 27 56.00 -1.1
 DST 0.78 218 ePn 27 59.00 0.3
 EYL 0.78 63 ePn 27 58.80 0.0
 S.D. = 0.9 on 6 of 6 obs.

APR 30, 1991 12h 36m 50.65 ± 0.40s
 6.386 S ± 2.4km 147.213 E ± 2.9km
 DEPTH = 59.1 ± 3.6 km
 5.5mb (37 obs.)

EAST PAPUA NEW GUINEA REGION (207)
 Mo=3.0*10**17 Nm (PPT).
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 19S, 40C
 Centroid Location:
 Origin Time 12:36:55.9 0.2
 Lat 6.425 0.03 Lon 147.17E 0.03
 Dep 49.8 2.7 Half-duration 2.7
 Moment Tensor: Scale 10**17 Nm
 Mrr=2.44 0.09 Mtt=-1.93 0.13
 Mff=-0.51 0.16 Mrt=2.54 0.21
 Mrf=-2.22 0.18 Mtf=-2.59 0.12
 Principal Axes:
 T Val=5.32 Plg=49 Azm=48
 N -1.31 39 245
 P -4.01 9 148
 Best Double Couple: Mo=4.7*10**17
 NP1: Strike=202 Dip=50 Slip=34
 NP2: 88 65 135

LAT 0.34 219 iPc 36 59.56 -1.5
 YYYY 1.25 277 iPd 37 16.10 3.8X
 MDG 1.82 308 iPd 37 22.88 2.8
 PMG 3.00 181 iPd- 37 36.40 -0.4
 eS 38 20.00
 MNDI 3.54 274 eP 37 39.00 -5.6X
 eS 38 19.00
 RAB 5.40 66 iPc+ 38 09.50 -1.0
 0.9s 3092.44nm 6.6mb X
 iS 39 25.20
 VSG 12.71 104 eP 39 52.00 1.4
 SVO 12.78 103 eP 39 53.00 1.4
 eS 42 34.00
 CTA 13.65 184 iPd- 40 03.10 0.0
 2.0s 2070.59nm 6.5mb X
 iS 42 37.00
 OIS 15.90 207 iPd 40 31.90 -0.3
 eS 43 20.00
 MTN 17.10 247 eP 40 39.00 -8.3X
 WB2 18.38 222 iPd 41 02.00 -1.0
 0.7s 148.00nm 5.3mb
 e 44 38.90
 WRA 18.38 222 P 41 01.90 -1.2
 AAI 19.13 277 eP 41 13.00 1.0
 GUA 19.93 353 eP 41 20.80 0.4
 1.0s 320.00nm 5.6mb
 e 41 45.30
 eS 45 05.00
 PJG 19.98 353 eP 41 21.30 0.3
 RMO 20.05 176 iPd 41 19.80 -1.9
 0.6s 244.00nm 5.7mb
 e 49 11.00
 OLP 20.29 188 iPc 41 22.50 -1.6
 KNA 20.34 241 iPd 41 24.40 -0.3
 ASPA 21.43 215 eP 41 36.10 0.3

0.6s 339.70nm 5.9mb
 i 41 58.20
 iS 45 31.30
 BRS 21.55 166 iPd 41 36.00 -1.0
 i(pP) 41 38.00 7kmX
 PVC 23.48 121 iPc 41 57.50 1.5
 DZM 24.25 132 iPc 42 02.60 -0.9
 COO 24.46 170 iPc 42 05.70 0.2
 0.8s 296.00nm 5.8mb
 e 49 22.80
 CMS 25.00 183 iPd 42 10.80 0.3
 0.8s 88.00nm 5.3mb
 i 42 24.60
 DAV 25.40 301 eP 42 19.00 4.6X
 STK 25.90 191 iPd 42 18.40 -0.5
 eS 46 56.10
 RIV 27.55 173 ePc 42 37.20 3.3X
 eS 47 28.00
 MKS 27.62 271 iPc 42 36.50 1.7
 WARB 27.80 223 iPc 42 37.00 0.7
 0.4s 37.00nm 5.4mb
 ADE 29.50 194 eP 42 51.20 -0.4
 1.0s 240.00nm 5.8mb
 MBL 30.30 238 eP 42 59.00 0.3
 BKB2 30.66 278 ePd 43 04.00 2.0
 BFD 30.94 187 iPc 43 03.00 -1.2
 TSM 30.94 289 ePc 43 07.50 3.0X
 MEKA 33.92 230 iPc 43 29.80 -0.5
 COOL 34.52 222 eP 43 34.80 -0.6
 0.3s 18.00nm 5.5mb
 NANU 34.52 239 eP 43 46.00 10.5X
 0.3s 13.00nm
 BAG 34.75 311 eP 43 37.00 -0.7
 eS 49 02.00
 TAU 36.37 180 eP 43 51.00 0.1
 KLB 37.24 224 eP 43 57.80 -0.6
 0.3s 35.00nm 5.8mb
 BAL 37.41 226 eP 44 00.00 0.1
 NWA0 38.39 223 iPd 44 08.40 0.4
 0.6s 67.00nm 5.7mb
 N 20s 4.90um
 E 20s 6.80um
 MUN 38.54 225 eP 44 09.00 -0.3
 1.0s 160.00nm 5.9mb
 RKG 39.23 221 iPd 44 18.20 3.2X
 KAGJ 40.49 338 eP 44 25.80 0.4
 KUMJ 41.73 339 eP 44 35.30 -0.2
 OZH 41.78 319 eP 44 37.20 1.1
 Z 30s 3.58um 5.1MsZ
 E 17s 0.95um
 S 50 49.50
 WKYJ 41.85 346 P 44 45.70 9.1X
 THZ 41.98 151 eP 44 38.00 0.4
 TKSJ 42.04 344 P 44 37.70 -0.4
 MSZ 42.20 158 eP 44 40.90 1.6
 TCW 42.25 149 eP 44 40.70 1.0
 PUZ 42.28 143 P 44 40.40 0.4
 KIW 42.32 148 P 44 41.50 1.2
 MNG 42.44 148 P 44 41.70 0.4
 LTZ 42.47 152 P 44 42.10 0.5
 MRW 42.48 149 eP 44 41.70 0.1
 NOZ 42.50 144 eP 44 42.90 1.1
 SNZO 42.54 149 Pd 44 42.20 0.2
 PP 46 32.00
 S 51 06.00
 SS 54 28.00
 CAW 42.58 149 P 44 42.30 -0.1
 WDW 42.65 149 P 44 42.90 -0.1
 KHZ 42.79 151 eP 44 44.20 0.1
 MTW 42.84 148 P 44 44.20 -0.3
 PGZ 42.86 147 P 44 45.00 0.3
 KAKJ 42.88 352 eP 44 51.30 6.5X
 CHJJ 42.91 350 eP 44 44.90 -0.2
 BLW 42.98 148 P 44 45.70 0.0
 TSRJ 43.02 347 eP 44 46.00 0.0
 SHNJ 43.08 340 eP 44 46.20 -0.3
 SHNJ 43.08 340 P 44 47.30 0.8
 YONJ 43.33 344 P 44 48.10 -0.5
 MAT 43.53 349 (P) 44 49.00 -1.2
 Z 20s 2.13um 5.0MsZ
 eS 51 03.00
 MTMJ 43.64 349 eP 44 51.30 0.1
 NIIJ 44.07 351 P 44 54.50 0.0
 KGM 44.61 279 eP 45 01.50 2.2
 OIZ 44.65 305 eP 45 01.50 2.0
 N 13s 0.80um
 E 10s 0.60um

SSE 44.82 328 Pc 45 00.80 0.2
 1.0s 44.00nm 5.2mb
 Z 20s 5.10um 5.4MsZ
 N 20s 3.79um
 E 20s 2.90um
 PP 45 15.00
 SP 45 20.00
 ScS 54 54.00
 KLM 46.46 280 eP 45 17.00 3.1X
 NJ2 46.82 326 Pc 45 16.50 0.1
 1.0s 40.00nm 5.3mb
 Z 20s 2.10um 5.1MsZ
 N 20s 3.00um
 E 20s 1.70um
 SP 45 36.60
 S 52 04.00
 IPM 47.38 282 ePd 45 23.60 2.4
 1.0s 236.10nm 6.1mb
 WHN 48.37 321 Pd 45 30.00 1.4
 1.0s 20.00nm 5.1mb
 Z 20s 1.30um 4.9MsZ
 N 20s 2.10um
 SNG 48.40 285 eP 45 29.90 0.8
 1.2s 175.00nm 5.9mb
 e 52 27.00
 PSI 49.05 279 ePd 45 39.10 5.0X
 LOE 50.77 298 eP 45 47.20 0.0
 TIA 50.91 329 Pd 45 47.30 -0.7
 Z 21s 3.60um 5.4MsZ
 N 22s 3.20um
 E 20s 2.30um
 S 52 59.00
 GYA 51.10 312 eP 45 53.00 3.3X
 Z 28s 1.40um 4.8MsZ
 N 20s 0.80um
 E 20s 1.00um
 SP 46 10.00
 S 53 05.00
 SS 53 23.00
 NST 51.52 296 eP 45 56.50 3.6X
 KHT 52.59 294 eP 46 04.50 3.5X
 SNY 52.62 338 iPc 45 59.80 -1.0
 1.0s 40.00nm 5.4mb
 Z 22s 4.90um 5.5MsZ
 N 20s 2.10um
 E 20s 2.70um
 PP 46 13.20
 SP 46 20.20
 PCP 47 05.70
 S 53 20.00
 SS 53 41.00
 BDT 53.10 297 eP 46 06.00 1.3
 1.0s 83.50nm 5.7mb
 BSI 53.15 282 eP 46 03.50 -1.6
 MDJ 53.19 344 Pd 46 04.70 -0.2
 1.0s 30.00nm 5.3mb
 Z 25s 2.00um 5.1MsZ
 E 16s 0.85um
 PP 46 20.00
 S 53 30.00
 RAR 53.30 112 P 46 07.00 0.9
 KMI 53.40 308 Pd 46 08.00 0.9
 1.6s 60.00nm 5.4mb
 Z 32s 3.60um 5.2MsZ
 PP 46 22.50
 SP 46 27.50
 S 53 30.00
 CN2 53.69 341 Pc 46 07.20 -1.4
 1.0s 30.00nm 5.3mb
 Z 18s 4.70um 5.6MsZ
 N 18s 1.50um
 E 18s 0.80um
 ePP 46 18.00
 PCP 47 13.00
 ScP 51 08.40
 eS 53 34.00
 CHG 53.76 299 eP 46 10.60 1.1
 1.0s 17.00nm 5.0mb
 XAN 54.11 321 Pd 46 11.20 -0.8
 S 53 44.00
 BJI 54.34 331 eP 46 12.00 -1.4
 1.2s 61.00nm 5.5mb
 N 19s 2.93um
 eS 53 46.00
 TIY 54.54 326 Pd 46 14.40 -0.7

	Z	22s		3.30um		5.4Msz		ISA	97.18	55	eP	50	20.00	1.7				0.7s		4.40nm				
	N	20s		2.20um				MWC	97.46	56	eP	50	20.00	0.3			LPG	128.14	325	ePKP	55	52.00	-0.4	
			S		53	46.00		NVL	97.48	194	(P)	50	29.00	10.0X				0.9s		9.00nm				
CD2		55.69	314	eP	46	22.40	-1.1				ePP	54	20.00				PGF	128.47	321	ePKP	55	52.20	-0.7	
	Z	20s		1.80um			5.2Msz	SBB	97.67	56	eP	50	18.00	-2.5X				0.7s		14.35nm				
HHC		57.27	328	eP	46	33.50	-1.2	CLC	97.90	55	eP	50	22.00	0.5			LOR	128.61	329	ePKP	55	52.70	-0.2	
	Z	26s		3.50um			5.3MszX	RVR	98.01	57	eP	50	23.00	1.0				0.7s		4.40nm				
	E	15s		0.80um				PEC	98.19	57	P	50	22.00	-0.8				Z	22s		1.58um		5.7Msz	
			S		54	29.00		TNP	98.28	53	P	50	22.50	-0.9			LBF	128.73	328	ePKP	55	52.50	-0.6	
BTO		57.91	327	P	46	39.00	-0.2	PLM	98.41	57	eP	50	25.00	0.9			SSF	128.92	329	ePKP	55	53.20	-0.2	
	N	21s		3.10um				NEW	98.50	42	P	50	23.90	0.0				1.0s		11.00nm				
	E	21s		3.10um					1.2s		24.24nm			5.6mb			SMF	129.02	328	ePKP	55	53.10	-0.6	
			S		54	34.00		GSC	98.53	55	eP	50	41.00	16.6X			AVF	129.18	328	ePKP	55	53.50	-0.4	
LZH		58.64	319	eP	46	42.50	-1.9	YKA	99.41	28	eP	50	26.50	-1.2			FRF	129.34	323	ePKP	55	53.90	-0.4	
		2.0s		61.00nm			5.4mb		1.3s		6.00nm			5.0mb				0.7s		9.90nm				
	Z	28s		3.72um			5.4MszX	SES	102.38	40	ePdiff	50	42.00	0.6			LMR	129.55	323	ePKP	55	54.30	-0.4	
	N	18s		1.03um				SXM	102.60	44	ePdiff	50	43.50	0.8			LRG	129.57	323	ePKP	55	54.60	-0.1	
			PP		46	57.00		KEV	106.12	342	ePdiff	50	57.00	-0.5				0.8s		14.80nm				
			SP		47	04.50		KEV	106.12	342	ePKP	55	25.00	15.9X				Z	21s		1.02um		5.5Msz	
			PcP		47	32.00		ALO	107.01	56	ePdiff	51	02.00	-0.6			BGF	129.60	329	ePKP	55	54.40	-0.3	
			S		54	43.00			Z	20s		0.82um		5.3Msz				0.8s		11.40nm				
			SS		55	04.00		ALO	107.01	56	ePKP	55	12.00	-0.2			PNJ	129.60	41	PKP	55	56.40	1.5	
			ScS		56	27.50		FFC	107.15	35	ePKP	55	28.00	16.5X			LDF	129.65	332	ePKP	55	54.50	-0.3	
			SS		58	30.00			0.9s		7.00nm					FLN	129.69	333	ePKP	55	54.40	-0.4		
GTA		63.17	320	Pc	47	14.80	-0.2	GOL	107.45	51	Pdiff	51	10.00	5.5X				Z	21s		1.98um		5.8Msz	
		0.6s		10.00nm			5.1mb		Z	20s		1.75um		5.6Msz			TCF	130.11	329	ePKP	55	55.60	-0.1	
	Z	34s		1.60um			5.0MszX	GLD	107.55	50	Pdiff	51	10.00	5.1X				0.8s		9.40nm				
	N	13s		0.40um					Z	22s		2.32um		5.7Msz			GRR	130.14	333	ePKP	55	55.60	-0.1	
			PP		47	29.20		NUR	111.14	333	ePKP	55	33.00	14.1X			LPF	130.48	332	ePKP	55	56.30	0.0	
			S		55	40.00		SLR	112.70	239	ePKP	55	22.50	-0.6				0.9s		11.45nm				
LSA		64.64	307	eP	47	25.60	0.4	HFS	115.99	336	ePKP	55	28.20	0.0			MFF	131.08	330	ePKP	55	57.30	-0.2	
	Z	30s		3.90um			5.4MszX		0.4s		0.60nm					CAF	131.08	327	ePKP	55	57.80	0.1		
			PP		47	47.46	-0.7		Z	18s		1.40um		5.6Msz			LPO	131.71	328	ePKP	55	59.20	0.4	
GUN		68.25	303	P	47	49.14	-0.7				LR	36	57.00					0.8s		10.75nm				
PKI		68.53	303	P	47	50.56	-0.8	NB2	116.39	338	PKP	55	28.20	-0.8			NNA	132.54	113	ePKP	56	00.70	-0.6	
KKN		68.71	303	P	47	53.44	-1.0		1.0s		7.60nm							1.3s		50.00nm				
DMN		68.80	303	P	47	49.10	-5.7X	FVM	119.21	50	ePKP	55	34.20	-0.9			UPA	133.62	84	iPKPc	56	03.30	0.0	
GKN		69.32	303	P	48	11.00			1.1s		12.20nm								i		59	30.80		
YAK		69.53	351	iPc	50	28.00		KSP	119.88	326	ePKP	55	31.00	-4.9X			TOL	137.83	327	ePKP	56	27.00	16.4X	
			iPcP	52	08.00						ec	55	51.50						ePP	59	38.00			
			iPPP	52	08.00			SKO	120.46	315	ePKP	55	37.00	-0.3					ePPS	11	28.00			
			iPcS	52	26.00						i	55	52.50						eSS	17	42.00			
			eS	56	58.00			BRG	121.14	327	ePKP	55	39.50	1.2			LPB	138.30	124	PKP	56	03.00	-9.6X	
			iPS	57	17.00				1.3s		16.00nm							1.0s		50.00nm				
			eScS	57	34.00						i	55	54.10						i		56	13.20		
			eSS	00	46.00			OHR	121.21	315	ePKP	55	39.00	0.2					i		59	44.00		
KOD		71.39	283	eP	48	09.00	1.6	PRU	121.28	326	ePKP	55	37.60	-1.0			ZOBO	138.41	123	PKP	56	02.00	-11.0X	
HYB		71.79	291	eP	48	09.00	-0.4		Z	20s		1.10um		5.5Msz				1.2s		12.84nm				
		1.2s		64.30nm			5.4mb		N	19s		0.60um								i		56	14.80	
GBA		72.05	286	Pc	48	10.90	0.0		E	20s		0.60um								LR		39	16.00	
		1.2s		64.00nm			5.4mb				e	55	54.50				SDV	142.42	84	iPKP	56	15.60	-4.2X	
WMO		73.22	319	P	48	17.30	-0.1	CLL	121.40	328	ePKP	55	05.30				IFR	142.76	320	iPKP	56	16.00	-3.8X	
	N	16s		1.10um					1.2s		23.00nm									i		56	32.00	
			PP		48	26.20					i	55	54.60				AVE	144.34	322	iPKP	56	21.50	-0.8	
			PP		51	01.00		KHC	122.26	326	iPKP	55	40.50	-0.1					i		56	37.00		
			S		57	41.00			Z	20s		0.80um		5.4Msz			MORO	144.61	80	iPKP	56	22.20	-1.2	
			SS		58	06.00			N	20s		0.30um					MGP	144.61	68	PKP	56	20.20	-2.9X	
NDI		75.76	302	eP	48	30.50	-1.8		E	22s		0.60um					PORP	145.02	68	PKP	56	22.20	-1.6	
POO		76.40	291	iP	48	37.00	0.9	PTJ	122.46	322	ePKP	55	41.50	0.4			CLLP	145.06	67	PKP	56	23.00	-0.9	
ANM		79.00	19	eP	48	50.20	0.7	MOX	122.50	328	ePKP	55	41.40	0.5			SJG	145.45	67	ePKP	56	24.00	-0.6	
SVW		80.49	24	eP	48	58.30	0.7	VBY	123.08	321	ePKP	55	41.80	-0.4			LPR	145.65	67	PKP	56	24.70	-0.3	
TTA		81.32	23	e(P)	49	02.00	0.1				i	55	58.60				CPD	145.68	67	PKP	56	24.20	-0.8	
MAW		81.98	203	iPd	49	06.20	1.1	GRF	123.25	327	ePKP	55	43.00	0.6			TIO	145.82	319	iPKP	56	25.90	0.8	
		0.9s		33.00nm			5.3mb		Z	22s		1.00um		5.4Msz						i		56	40.00	
PMR		83.46	26	eP	49	12.00	-0.9				e	55	57.90						i		56	51.50		
		1.3s		62.10nm			5.5mb				e	55	05.30				OLLA	146.15	82	iPKP	56	26.70	0.7	
SPA		83.66	180	iPc	49	13.90	-0.2	LJU	123.27	322	ePKP	55	43.40	0.9			PPD	146.43	148	ePKP	56	27.90	1.8	
		0.9s		63.64nm			5.6mb	CEY	123.48	322	e(PKP)	55	44.00	1.0					e		56	35.20		
IMA		83.84	21	eP	49	15.00	0.1	RSCP	123.64	51	PKP	55	42.70	-1.0					e		56	42.50		
		1.4s		55.20nm			5.4mb	VOY	123.66	322	ePKP	55	43.10	-0.4			VAO	147.67	155	ePKP	56	31.80	3.6X	
GAR		83.90	310	eP	49	16.80	1.0	SCH	124.54	23	ePKP	55	44.00	-0.8					e		56	46.20		
QUE		84.82	301	eP	49	21.30	0.6	ABH	125.06	329	ePKP	55	47.11	1.2					e		56	56.10		
		0.9s		37.82nm			5.5mb	MEM	125.36	331	PKPc	56	03.00	16.6X			BMA	149.03	159	ePKP	56	35.40	5.1X	
TOA		84.95	26	eP	49	21.10	0.6	DOU	126.38	331	PKPc	56	04.90	16.4X			CPB	149.53	66	ePKP	56	35.90	4.9X	
FBA		85.45	23	eP	49	21.80	-1.0	PCH	126.52	141	ePKP	55	50.50											

30d 12h

S.D. = 0.9 on 201 of 242 obs.
 * APR 30, 1991 12h 44m 52.01 ± 0.97s
 42.757 N ± 10.4km 42.757 E ± 12.1km
 DEPTH = 10.0km (geophysicist)
 4.3mb (3 obs.)

WESTERN CAUCASUS

(362)

KVT	5.28	254	ePn	46	12.10	-0.8
TAB	5.42	149	eP	46	15.00	0.1
KAS	6.83	261	iPd	46	35.40	0.6
VRI	11.90	291	ePc	47	26.00	-18.6X
OBV	12.99	344	P	47	58.00	-1.1
			e	50	40.00	
MAIO	14.43	111	eP	48	04.00	-14.3X
			e	00	24.00	
OHR	16.42	272	eP	48	48.30	4.3X
SPC	16.89	300	eP	48	43.60	-6.4X
			e	55	34.60	
ZST	18.75	296	e(P)	49	14.50	1.5
			e	55	38.60	
			e	55	51.80	
PTJ	19.39	289	eP	49	20.70	-0.3
PRU	20.68	300	eP	49	26.00	-8.5X
NUR	20.90	334	eP	49	39.00	2.4
KHC	21.18	298	P	49	30.50	-9.2X
			e	49	44.00	
KAF	21.70	339	iP	49	44.80	0.1
	0.9s	16.00nm				4.4mb
			eSP	49	51.20	
CLL	21.89	303	iP	49	47.10	0.4
	1.0s	19.00nm				4.5mb
GRF	22.77	299	eP	49	54.00	-1.5
SOD	26.17	346	eP	50	42.00	14.2X
NB2	26.31	325	P	50	27.40	-1.9
	0.7s	1.60nm				3.8mb
FRB	60.87	332	eP	55	07.00	0.5

S.D. = 1.4 on 12 of 19 obs.

& APR 30, 1991 13h 17m 40.46s
 62.147 N 150.541 W
 DEPTH = 5.2km

CENTRAL ALASKA

(1)

<AEIC>. ML 2.9 (AEIC).

CUT	0.29	26	iP	17	46.97	0.7
SKT	0.49	251	iP	17	50.31	-0.1
			eS	17	57.54	
PWA	0.59	148	iP	17	52.68	0.4
SUA	0.69	188	eP	17	54.51	0.2
			eS	18	05.18	
GHO	0.85	116	iP	17	56.52	-0.9
			eS	18	08.79	
PLRM	0.87	129	eP	17	56.80	-0.8
			iS	18	09.60	
HUR	0.93	26	eP	17	57.19	-1.5
			iS	18	09.63	
PMS	1.02	152	eP	17	59.37	-0.8
			iS	18	14.04	
NCG	1.07	227	eP	18	00.14	-1.0
			iS	18	15.45	
SML	1.10	107	eP	18	00.17	-1.4
			eS	18	15.84	
CRP	1.17	222	eP	18	02.16	-0.7
			S	18	17.27	
SPU	1.21	217	eP	18	02.07	-1.4
			eS	18	18.82	
KNK	1.24	126	eP	18	03.28	-0.6
			iS	18	20.01	
BGL	1.25	226	eP	18	03.08	-1.1
			eS	18	19.68	
CKL	1.28	223	eP	18	03.76	-1.0
TRF	1.31	5	eP	18	03.66	-1.7
			eS	18	20.72	
NKA	1.45	194	eP	18	08.50	1.2
RND	1.48	31	eP	18	05.70	-2.2
			eS	18	25.14	
SCM	1.55	100	eP	18	07.48	-1.3
SLKM	1.65	174	eP	18	08.56	-1.7
MCK	1.75	24	eP	18	10.66	-1.0
			S	18	32.25	
RDT	1.82	210	eP	18	11.30	-1.4
			iS	18	36.55	
DFR	1.87	214	eP	18	12.73	-0.7
			eS	18	37.32	
RDN	1.96	214	eP	18	13.44	-1.3
			eS	18	38.71	

NCT	1.96	217	eP	18	13.71	-1.1
			eS	18	40.54	
RDW	2.00	214	eP	18	14.60	-0.8
RS2	2.00	213	eP	18	15.76	0.3
RSO	2.00	213	eP	18	15.32	-0.1
RED	2.04	213	eP	18	14.92	-1.0
TOA	2.05	89	eP	18	15.86	-0.2
GLI	2.08	126	eP	18	15.67	-0.8
BWN	2.09	13	eP	18	15.99	-0.6
SEW	2.12	165	eP	18	15.81	-1.1
VZW	2.20	118	eP	18	18.18	0.0
VLZ	2.25	115	eP	18	18.58	-0.3
KNIM	2.26	142	eP	18	17.27	-1.7
KLU	2.29	105	eP	18	19.03	-0.5
SDG	2.36	79	eP	18	19.89	-0.6
TZL	2.41	90	eP	18	21.36	0.2
LTJ	2.48	147	eP	18	20.70	-1.5
PAX	2.49	68	eP	18	20.85	-1.5
CNPM	2.65	188	eP	18	23.73	-0.9
HDA	2.79	34	eP	18	25.14	-1.4
CCB	2.80	25	eP	18	23.27	-3.4
RDS	2.90	21	eP	18	25.20	-2.9
PDB	2.96	219	eP	18	28.22	-0.7
MDM	3.01	19	eP	18	27.36	-2.3
GLB	3.27	100	eP	18	32.85	-0.6

48 obs. associated

& APR 30, 1991 14h 08m 44.32s
 61.698 N 151.034 W
 DEPTH = 61.1km
 3.6mb (3 obs.)

SOUTHERN ALASKA

(2)

<AEIC>. Felt (IV) at Skwentna,
 (III) at Anchorage and Chugiak
 and (II) at Palmer.

SUA	0.27	149	iPc	08	54.77	0.2
			iS	09	03.20	
SKT	0.37	321	iPd	08	54.51	-0.7
			eS	09	02.92	
PWA	0.55	94	iPc	08	56.86	-0.2
CGLM	0.61	230	eP	08	57.51	-0.3
			eS	09	08.15	
NCG	0.61	242	iPd	08	57.27	-0.6
			eS	09	07.83	
CRP	0.69	232	iPd	08	58.41	-0.4
SPU	0.71	224	iPd	08	58.40	-0.6
BGL	0.78	237	iPd	08	59.18	-0.7
CUT	0.80	27	iPc	08	59.39	-0.5
CKL	0.80	232	iPd	08	59.35	-0.8
PMS	0.84	122	iPc	08	59.98	-0.5
PLRM	0.91	96	iPc	09	00.47	-0.9
			eS	09	14.64	
PMR	0.91	96	iPc	09	01.00	-0.4
			iS	09	14.60	
NKA	0.96	186	ePc	09	03.39	1.4
GHO	1.01	85	ePc	09	02.09	-0.6
			eS	09	17.01	
SLKM	1.26	161	iPc	09	05.12	-0.9
KNK	1.27	102	ePc	09	05.28	-0.9
			eS	09	22.45	
SML	1.29	84	ePc	09	05.06	-1.0
RDT	1.31	211	iPd	09	06.00	-0.8
			eS	09	23.74	
DFR	1.37	217	iPd	09	06.81	-0.8
HUR	1.44	26	ePc	09	07.92	-0.6
			eS	09	27.21	
RDN	1.46	216	iPd	09	08.02	-0.8
NCT	1.47	220	ePd	09	08.31	-0.7
			iS	09	27.69	
RDW	1.49	216	ePd	09	08.90	-0.6
RS2	1.50	215	eP	09	09.05	-0.5
RSO	1.50	215	ePd	09	08.95	-0.5
RED	1.54	214	eP	09	09.30	-0.7
			eS	09	28.92	
NNL	1.67	185	ePc	09	12.02	0.4
SCM	1.77	84	ePd	09	11.76	-1.4
SEW	1.78	153	eP	09	12.78	-0.4
TRF	1.79	11	iPd	09	12.65	-0.9
BRLK	1.94	178	eP	09	15.44	-0.1
			eS	09	38.81	
RND	1.99	30	ePc	09	14.90	-1.3
GLI	2.07	112	iPd	09	14.74	-2.6
KNIM	2.10	129	ePd	09	14.65	-3.1
CNPM	2.18	183	ePd	09	17.46	-1.4
VZW	2.25	105	ePd	09	17.38	-2.5
MCK	2.26	24	eP	09	19.17	-0.8

XLV	2.28	189	eP	09	20.25	0.1
SVW	2.28	257	iPd	09	18.90	-1.4
VLZ	2.33	102	ePd	09	18.28	-2.6
TOA	2.34	78	iPd	09	20.70	-0.4
MTU	2.38	135	eP	09	19.44	-2.3
KLU	2.45	93	iPd	09	20.35	-2.4
			eS	09	49.69	
PDB	2.47	220	ePd	09	21.45	-1.4
BWN	2.58	15	ePc	09	23.38	-1.1
AUE	2.62	207	eP	09	24.45	-0.5
AUH	2.63	208	eP	09	25.09	-0.1
TTA	2.63	300	eP	09	23.80	-1.4
AUI	2.65	208	eP	09	25.13	-0.3
TZL	2.68	80	ePd	09	24.67	-1.2
SDG	2.71	70	ePd	09	25.11	-1.2
PAX	2.89	61	ePd	09	27.53	-1.5
MCNL	3.01	214	eP	09	29.77	-0.7
NEA	3.02	16	ePd	09	28.69	-2.1
CDD	3.07	206	ePd	09	30.42	-1.0
WRH	3.09	24	ePd	09	29.43	-2.2
DDM	3.17	46	eP	09	32.99	0.1
SYI	3.17	193	eP	09	31.37	-1.4
HDA	3.29	33	eP	09	32.57	-2.0
CCB	3.30	25	ePc	09	32.26	-2.4
RDS	3.40	21	eP	09	33.74	-2.3
GLB	3.46	91	eP	09	34.32	-2.7
MDM	3.51	20	ePd	09	35.25	-2.4
FBA	3.53	23	ePc	09	36.20	-1.7
GLM	3.69	25	eP	09	37.92	-2.2
DOT	3.76	56	eP	09	39.81	-1.4
CRQM	3.93	100	eP	09	40.99	-2.7
TNW	4.07	63	eP	09	44.64	-0.8
TGL	4.08	100	eP	09	42.60	-3.1
BALM	4.23	95	ePd	09	45.47	-2.4
IMA	4.54	346	eP	09	49.80	-2.4
CTGM	4.73	95	eP	09	52.69	-2.2
FYU	5.51	25	eP	10	03.94	-1.6
ANM	7.10	300	eP	10	26.50	-1.3
INK	9.91	41	P	11	05.00	-1.4
	0.6s	1.40nm				4.2mb
YKA	16.93	71	eP	12	34.80	-3.3
	0.5s	0.80nm				3.1mb
NEW	23.32	110	eP	13	46.00	-1.3
	0.6s	1.48nm				3.6mb
BW06	30.93	108	eP	14	55.00	-2.4
MSU	33.25	116	eP	15	15.60	-2.0

80 obs. associated

* APR 30, 1991 15h 00m 22.61 ± 1.41s
 25.371 S ± 14.0km 179.540 E ± 10.6km
 DEPTH = 520.4 ± 12.6 km
 5.0mb (9 obs.)

SOUTH OF FIJI ISLANDS

(171)

SVA	7.29	352	eP	02	13.00	-0.3
NDF	7.82	345	eP	02	09.60	-9.1X
SGE	7.89	349	eP	02	19.00	0.3
DZM	12.44	283	iPc	03	08.90	

30d 15h

1.0s 100.00nm 5.4mb						Z 18s 0.08um 3.3msz						DST 0.61 49 ePg 48 34.00 0.2					
CN2 84.82 324 Pd 12 02.90 0.3						LR 34 16.00						iSg 48 45.30					
1.2s 100.00nm 5.3mb						SOD 27.08 346 eP 24 57.00 8.1X						IZM 1.01 217 ePn 48 40.60 0.0					
TIA 84.94 314 Pd 12 04.70 1.3						GKN 36.05 99 P 26 00.00 -8.4X						KCT 1.07 14 ePn 48 41.20 -0.4					
CLC 85.00 47 eP 12 04.00 0.2						YKA 74.41 350 eP 30 44.50 0.3						EDC 1.14 354 ePn 48 43.00 0.1					
GSC 85.23 47 eP 12 05.00 0.1						0.9s 0.60nm 3.6mb						BNT 1.15 356 ePn 48 43.20 0.2					
BJI 87.80 317 eP 12 18.00 1.1						S.D. = 1.0 on 6 of 14 obs.						S.D. = 0.4 on 5 of 5 obs.					
1.1s 31.00nm 5.0mb						% APR 30, 1991 15h 33m 48.49±1.03s						APR 30, 1991 16h 07m 38.98±0.43s					
TIY 88.88 313 eP 12 23.00 0.9						40.686 N ± 9.4km 29.921 E ± 7.1km						42.491 N ± 9.5km 43.230 E ± 4.9km					
XAN 89.32 308 Pd 12 27.50 3.4X						DEPTH = 10.0km (geophysicist)						DEPTH = 10.0km (geophysicist)					
CHG 89.80 291 ePc 12 28.40 1.8						TURKEY (366)						4.6mb (15 obs.)					
1.0s 21.00nm 5.0mb						MD 2.8 (ISK).						WESTERN CAUCASUS (362)					
HHC 91.16 315 eP 12 34.00 1.4						EYL 0.22 124 iPg 33 53.20 0.0						TAB 5.01 151 eP 09 12.00 15.9X					
CD2 91.54 304 P 12 35.40 1.0						eSg 33 56.00						KVT 5.55 258 ePn 09 03.70 0.0					
IMA 93.42 11 eP 12 41.00 -1.4						HRT 0.24 305 iPg 33 53.50 -0.1						MLR 12.81 289 iPd 10 45.50 1.6					
FBA 93.47 13 eP 12 41.10 -1.4						iSg 33 56.70						OBN 13.35 343 eP 10 52.00 1.2					
LZH 93.95 308 eP 12 45.00 -0.6						YLV 0.43 254 ePg 33 57.10 -0.3						eS 13 22.00					
1.2s 26.00nm 5.2mb						IZI 0.49 225 iPg 33 58.60 0.2						LR 15 14.00					
FRB 122.13 29 ePKP 18 17.00 -1.3						eSg 34 06.70						OHR 16.78 273 eP 11 33.50 -2.1X					
KEV 132.76 347 ePKP 18 36.00 -2.6X						CTI 1.22 293 iPn 34 11.40 0.2						SPC 17.32 301 eP 11 40.50 -2.0					
SOD 134.80 346 ePKP 18 33.00 -9.5X						S.D. = 0.3 on 5 of 5 obs.						ZST 19.18 296 eP 12 07.00 1.8					
KAF 139.10 341 iPKP 18 40.00 -10.7X						% APR 30, 1991 15h 38m 24.83±0.83s						PTJ 19.81 289 eP 12 12.00 -0.5					
NUR 140.86 341 iPKP 18 46.50 -7.4X						43.109 N ± 7.5km 0.559 W ± 7.3km						KSP 20.20 304 eP 12 16.00 -0.4					
i 18 55.60						DEPTH = 10.0km (geophysicist)						GAR 20.78 91 eP 12 23.10 0.3					
UPP 143.31 345 iPKPd 18 54.20 -3.9X						PYRENEES (378)						NUR 21.29 334 iP 12 26.90 -0.7					
NB2 143.46 350 PKP 18 54.80 -3.6X						MD 1.0 (STR).						0.7s 22.70nm 4.7mb					
0.7s 55.00nm						ESCF 0.03 201 Pg 38 26.67 -0.2						KHC 21.62 298 P 12 34.20 3.2X					
HFS 143.90 348 ePKP 18 56.20 -2.9X						OGE 0.09 47 Pg 38 27.40 0.0						BRG 21.66 303 eP 12 34.60 3.2X					
0.7s 109.80nm						ATE 0.11 258 Pg 38 27.55 -0.1						KAF 22.08 339 iP 12 36.10 0.6					
Z 14s 0.04um 4.3mszX						ISSF 0.19 245 Pg 38 29.20 0.1						0.8s 20.30nm 4.6mb					
HRI 147.59 293 ePKP 19 10.00 3.8X						Sg 38 32.47						esP 12 40.00					
DSI 147.99 289 iPKPd 19 10.90 4.2X						MADF 0.19 281 Pg 38 29.20 0.1						CLL 22.32 304 eP 12 38.00 0.0					
MBH 148.44 286 iPKPd 19 12.20 4.6X						Sg 38 32.37						e 12 49.00					
EKA 150.00 3 PKPd 19 13.40 4.4X						LHE 0.20 193 Pg 38 29.46 0.1						GRF 23.21 299 eP 12 48.20 1.4					
0.6s 7.20nm						S.D. = 0.2 on 6 of 6 obs.						UPP 23.42 327 iP 12 50.10 1.5					
MLR 150.79 320 ePKPd 19 18.00 7.3X						% APR 30, 1991 15h 41m 32.64±0.76s						HFS 25.21 325 eP 13 06.00 0.0					
e 22 27.00						44.457 N ± 10.4km 7.204 E ± 11.0km						0.8s 32.50nm 5.1mb					
SPC 151.26 331 ePKP 19 16.80 5.4X						DEPTH = 10.0km (geophysicist)						Z 17s 0.05um 3.1mszX					
e 23 15.00						NORTHERN ITALY (545)						e 13 14.50					
KSP 151.49 337 iPKPd 19 17.80 6.4X						ML 1.8 (GEN).						LR 22 19.00					
i 19 21.80						PZZ 0.09 303 P 41 35.17 -0.2						LPG 26.27 289 eP 13 16.50 0.1					
e 19 27.60						S 41 37.43						0.9s 9.85nm 4.5mb					
WIT 152.07 351 ePKP 19 20.00 7.9X						STV 0.23 158 P 41 37.84 0.2						LPL 26.28 289 eP 13 16.50 0.1					
CLL 152.12 342 iPKP 19 18.90 6.6X						S 41 41.43						1.0s 15.00nm 4.6mb					
0.9s 40.00nm						ENR 0.28 146 P 41 38.35 -0.2						HAU 26.37 295 eP 13 16.40 -0.5					
i 19 30.90						S 41 42.35						0.7s 5.50nm 4.4mb					
BRG 152.23 340 iPKPd 19 19.50 7.1X						ROB 0.50 109 P 41 42.86 0.0						SOD 26.51 346 eP 13 26.00 8.0X					
0.8s 22.00nm						S 41 48.50						i 13 35.20					
i 19 32.10						RRL 0.55 327 P 41 43.99 0.0						NB2 26.73 325 P 13 19.20 -0.9					
PRU 152.81 339 ePKP 19 20.00 6.7X						S 41 49.84						0.9s 7.40nm 4.4mb					
e 19 24.50						S.D. = 0.2 on 5 of 5 obs.						LBF 28.03 293 eP 13 31.20 -0.9					
e 19 35.00						% APR 30, 1991 15h 42m 15.62±1.10s						1.0s 11.00nm 4.6mb					
WTS 152.84 350 ePKP 19 20.50 7.3X						39.416 N ± 9.6km 22.791 E ± 12.3km						SSF 28.35 293 eP 13 34.30 -0.6					
0.8s 23.00nm						DEPTH = 10.0km (geophysicist)						1.0s 10.00nm 4.6mb					
MOX 153.10 343 iPKPc 19 21.50 7.8X						GREECE (364)						AVF 28.48 293 eP 13 35.80 -0.3					
i 19 35.30						MD 2.5 (THE).						1.0s 18.00nm 4.8mb					
ZST 153.35 333 ePKP 19 22.20 8.1X						AGG 0.53 222 ePc 42 26.06 -0.3						KEV 28.58 348 eP 13 51.00 14.2X					
e 23 40.80						LIT 0.72 341 iPc 42 28.94 -0.9						MAF 29.09 291 eP 13 41.60 0.0					
e 23 44.10						eS 42 39.20						0.9s 7.35nm 4.5mb					
KHC 153.87 339 PKP 19 14.50 -0.3						PAIG 0.86 53 ePd 42 31.98 -0.1						TCF 29.32 292 eP 13 43.80 0.1					
e 19 22.50						SOH 1.47 17 ePd 42 41.66 -0.5						1.1s 9.75nm 4.5mb					
i 19 39.50						GRG 1.57 349 ePc 42 44.10 0.5						GKN 36.40 100 P 14 45.90 0.3					
GRF 154.08 342 ePKP 19 33.70 18.7X						KNT 1.75 3 ePc 42 45.58 -0.6						0.9s 11.00nm 4.7mb					
ec 19 50.50						eS 43 07.94						DMN 36.97 100 P 14 51.18 0.7					
S.D. = 1.0 on 35 of 62 obs.						OHR 2.28 319 eP 43 34.00 40.1X						KKN 36.99 100 P 14 50.72 0.1					
* APR 30, 1991 15h 19m 04.74±1.17s						HFS 21.52 348 eP 47 08.40 1.9						PKI 37.21 100 P 14 53.04 0.5					
41.975 N ± 21.1km 43.590 E ± 11.0km						0.9s 6.70nm 4.0mb						0.9s 9.00nm 4.6mb					
DEPTH = 10.0km (geophysicist)						Z 13s 0.03um 2.8mszX						GUN 37.36 99 P 14 53.38 -0.5					
4.1mb (3 obs.) 3.3msz (1 obs.)						S.D. = 1.1 on 7 of 8 obs.						YAK 52.06 37 eP 16 49.60 -1.0					
TURKEY-USSR BORDER REGION (367)						% APR 30, 1991 15h 48m 21.51±1.01s						FRB 61.27 332 eP 17 55.00 -1.2					
TAB 4.43 151 eP 20 35.00 21.3X						39.209 N ± 8.5km 28.029 E ± 13.2km						YKA 73.86 349 eP 19 14.20 -1.0					
KVT 5.73 264 ePn 20 31.70 -0.3						DEPTH = 10.0km (geophysicist)						0.8s 1.40nm 4.1mb					
KAS 7.38 269 eP 21 01.50 6.3X						TURKEY (366)						ZOBO 116.49 272 Pdiff 22 31.00 -9.0X					
GAR 20.52 89 eP 23 45.70 -0.1						MD 2.7 (ISK).						LPB 116.64 272 ePdiff 22 33.00 -7.5X					
PRU 21.61 302 eP 24 02.00 5.3X						AGG 0.57 231 ePc 14 43.60 0.0						S.D. = 0.9 on 31 of 39 obs.					
NUR 21.87 334 eP 24 06.00 6.8X						eS 14 52.92						% APR 30, 1991 17h 14m 32.01±1.18s					
KHC 22.10 299 eP 24 11.50 9.9X						PAIG 0.81 48 ePc 14 47.76 0.0						39.382 N ± 11.9km 22.900 E ± 13.7km					
KAF 22.65 339 iP 24 07.00 0.1						eS 14 59.32						DEPTH = 10.0km (geophysicist)					
0.9s 7.00nm 4.2mb						eS 14 59.32						GREECE (364)					
esP 24 09.30						eS 14 59.32						(364)					
CLL 22.84 305 eP 24 10.00 1.2						eS 14 59.32						AGG 0.57 231 ePc 14 43.60 0.0					
GRF 23.70 300 e(P) 24 00.00 -17.2X						eS 14 59.32						PAIG 0.81 48 ePc 14 47.76 0.0					
HFS 25.79 325 eP 24 35.90 -1.2						eS 14 59.32						eS 14 59.32					
0.7s 4.50nm 4.3mb						eS 14 59.32						eS 14 59.32					

30d 17h

SOH 1.48 13 iPd 14 58.68 0.0
 E 15 18.44
 GRG 1.62 347 iPc 15 00.80 0.1
 E 15 21.32
 KNT 1.78 360 ePc 15 02.88 -0.1
 E 15 25.48

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

APR 30, 1991 18h 00m 07.40 ± 0.74s
 45.559 N ± 5.8km 26.449 E ± 6.2km
 DEPTH = 159.0 ± 8.1 km
 3.4mb (1 obs.)

ROMANIA (358)

CVO 0.33 324 iPc 00 28.30 -0.4
 MLR 0.36 259 iPc 00 29.00 0.0
 VRI 0.37 32 iPc 00 29.00 0.2
 BRD 0.42 96 iPd 00 29.60 0.6
 ISR 0.43 171 iPc 00 29.50 0.4
 MTUR 1.03 252 iPc 00 34.00 0.3
 CMP 1.04 254 ePd 00 35.00 1.4
 PPE 1.05 51 iPd 00 34.50 0.8
 CLI 1.15 30 iPc 00 34.50 -0.1
 BUC1 1.25 194 iPd 00 35.50 0.1
 CFR 1.26 107 iPc 00 34.50 -1.0
 PTT 1.38 358 eP 00 29.50 -7.2X
 TLB 1.48 130 iPc 00 37.60 -0.2
 COZ 1.50 262 iP 00 40.00 1.8
 TNR 1.53 274 ePc 00 36.00 -2.3
 MDB 1.56 293 iPd 00 37.00 -1.6
 IAS 1.81 25 iPd 01 01.00 19.8X
 PSN 2.25 146 iPgD 00 46.00 -0.3
 PVL 2.47 199 iPgC 00 50.00 0.9
 DEV 2.50 279 iPd 00 41.00 -8.4X
 BZS 3.39 273 ePc 01 00.00 -0.6
 PGB 3.43 209 eP 01 02.00 0.8
 VTS 3.78 219 eP 01 05.00 -0.8
 DMK 3.85 165 ePn 01 05.70 -0.9
 KDZ 3.98 191 eP 01 17.00 8.7X
 RZN 4.07 199 ePc 01 09.00 -0.6
 KKB 4.42 215 eP 01 14.00 -0.1
 MMB 4.43 207 eP 01 15.00 0.7
 VAY 5.09 215 eP 01 45.00 22.1X
 SKO 5.10 227 e(P) 01 52.00 29.0X
 NB2 17.90 335 P 04 08.20 0.8

0.5s 0.90nm 3.4mb

S.D. = 1.0 on 25 of 31 obs.

APR 30, 1991 18h 01m 37.58 ± 0.36s
 32.767 N ± 7.9km 39.907 W ± 5.0km
 DEPTH = 10.0km (geophysicist)
 4.7mb (22 obs.) 4.5Msz (4 obs.)

NORTH ATLANTIC RIDGE (403)

CBM 25.70 312 P 07 10.80 1.4
 MFF 33.21 54 eP 08 16.70 0.2
 1.0s 14.00nm 4.8mb
 LFF 33.57 57 eP 08 19.50 -0.2
 1.0s 18.00nm 5.0mb
 LPO 33.86 57 eP 08 21.90 -0.3
 0.9s 13.10nm 4.9mb
 EKA 34.13 38 Pc 08 24.90 0.5
 1.1s 11.00nm 4.7mb
 LSF 34.29 55 eP 08 25.90 -0.1
 1.0s 19.00nm 5.0mb
 CAF 34.50 57 ePKP 08 27.50 -0.3
 1.3s 16.25nm 4.8mb
 TCF 34.77 55 eP 08 29.90 -0.2
 0.9s 11.45nm 4.8mb
 FRB 35.78 339 ePc 08 37.60 -0.8
 SMF 35.93 54 eP 08 39.80 -0.2
 1.1s 15.85nm 4.8mb
 LOR 36.02 53 eP 08 40.30 -0.4
 1.0s 7.00nm 4.5mb
 Z 21s 0.75um 4.4Msz
 LBF 36.06 54 eP 08 40.60 -0.5
 1.2s 16.35nm 4.8mb
 LPL 37.84 56 eP 08 57.10 0.8
 1.0s 9.00nm 4.5mb
 LPG 37.85 56 eP 08 57.40 0.9
 1.1s 8.55nm 4.4mb
 LKO 39.19 118 P 09 05.26 -2.4
 KIC 41.94 121 P 09 29.80 -0.4
 CLL 42.42 48 eP 09 34.00 0.2
 1.1s 16.00nm 4.7mb
 KHC 42.65 51 P 09 37.50 1.7
 Z 20s 0.30um 4.2Msz

N 18s 0.20um
 E 20s 0.20um
 BRG 42.98 49 eP 09 38.30 -0.1
 2.0s 30.00nm 4.7mb
 NB2 43.29 34 P 09 40.70 -0.1
 1.0s 7.90nm 4.4mb
 PRU 43.31 50 eP 09 42.00 0.9
 4.7MszX
 Z 17s 0.80um
 N 14s 0.30um
 E 16s 0.50um

e 09 47.10
 S 16 14.00
 KSP 44.46 49 eP 09 50.50 0.1
 DAG 45.16 7 ePd 09 55.90 0.3
 SRO 45.81 53 eP 10 06.20 5.0X
 FFC 48.11 316 eP 10 17.00 -2.3
 1.5s 23.00nm 5.0mb
 OHR 48.37 62 eP 10 21.20 -0.3
 NUR 49.67 36 eP 10 23.00 -8.1X
 KAF 50.57 34 iP 10 37.30 -0.7
 0.7s 9.70nm 4.9mb
 esP 10 38.20
 SOD 51.21 27 iP 10 42.40 -0.4
 MLR 51.29 55 ePd 10 45.00 1.1
 KEV 51.69 24 eP 10 46.00 -0.4
 GOL 52.22 297 P 10 52.00 0.8
 0.9s 3.79nm 4.3mb
 SIV 52.54 206 P 10 53.00 -0.4
 ALD 54.37 292 eP 11 07.00 0.0
 1.2s 3.91nm 4.3mb
 YKA 54.53 327 eP 11 05.80 -1.7
 1.1s 3.30nm 4.3mb
 BW06 54.53 302 P 11 06.70 -1.5
 1.2s 16.44nm 4.9mb
 SXM 54.90 306 eP 11 11.00 0.2
 ZOBO 55.73 213 P 11 18.00 0.5

Z 20s 0.47um 4.6Msz
 S 19 16.00
 LR 28 16.00
 LPB 55.95 213 P 11 20.00 1.2
 Z 18s 0.69um 4.8Msz
 eLR 29 10.00
 OBN 56.37 42 iP 11 20.00 -1.0
 1.2s *****nm 8.4mb X
 Z 16s 0.50um 4.7MszX
 E 16s 0.50um

i 11 26.00
 LR 33 25.00
 DAU 56.39 300 P 11 22.00 0.3
 DUG 57.59 300 P 11 30.50 0.5
 MSU 57.63 298 P 11 30.40 -0.1
 NEW 58.31 310 P 11 33.80 -1.0
 1.0s 16.25nm 5.0mb
 PNT 59.62 312 eP 11 46.00 2.1
 GAR 83.65 47 eP 14 08.20 0.3
 YAK 85.18 5 eP 14 14.60 -0.3
 QUE 86.68 56 eP 14 25.20 2.0

S.D. = 1.0 on 46 of 48 obs.
 APR 30, 1991 19h 04m 50.02 ± 0.90s
 32.350 S ± 8.1km 117.108 E ± 9.0km
 DEPTH = 10.0km (geophysicist)
 WESTERN AUSTRALIA (590)

NWAO 0.58 170 eP 05 02.20 0.3
 eS 05 10.00
 MUN 0.85 296 iPd 05 06.10 -0.3
 eS 05 16.60
 KLB 0.94 36 iPc 05 08.80 0.9
 eS 05 20.30
 RKG 1.72 183 eP 05 30.10 10.0X
 eS 05 54.00
 BAL 1.77 349 eP 05 21.00 0.1
 eS 05 44.00
 COOL 3.74 68 eP 05 48.00 -1.1
 eS 06 30.00

S.D. = 1.0 on 5 of 6 obs.

APR 30, 1991 19h 42m 12.89 ± 0.73s
 38.841 N ± 6.9km 21.344 E ± 6.4km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 MD 3.1 (ATH), 2.8 (THE).

AGG 0.79 76 iPd 42 28.85 0.6
 eS 42 40.40
 VLS 0.89 222 eP 42 29.70 -0.2

IGT 1.05 312 ePd 42 44.50
 eS 42 32.96 0.3
 KZN 1.50 13 eP 42 47.40
 eS 42 39.00 -0.9
 eS 42 59.30
 LIT 1.54 35 ePd 42 40.00 -0.4
 eS 42 01.60
 FNA 1.94 1 ePd 42 46.80 0.5
 eS 43 12.24
 GRG 2.26 21 ePc 42 50.64 -0.3
 eS 43 21.10
 OHR 2.31 350 ePn 42 52.20 0.6
 SOH 2.51 37 ePc 42 55.28 0.2
 KNT 2.61 27 ePd 42 55.40 -0.4
 eS 43 28.40
 VAY 2.65 20 ePn 42 55.70 -0.7
 SKO 3.13 1 ePn 43 06.00 2.9X
 i 43 09.80

S.D. = 0.7 on 11 of 12 obs.

APR 30, 1991 20h 04m 50.89 ± 1.03s
 7.124 S ± 6.1km 129.425 E ± 9.6km
 DEPTH = 118.7 ± 11.0 km
 5.4mb (9 obs.)

BANDA SEA (280)

AAI 3.63 340 ePd 05 48.00 1.7
 MTN 5.93 164 eP 06 18.00 0.3
 KNA 8.60 184 iPc 06 52.10 -1.9
 eS 08 42.00
 WB2 13.61 160 iPc 07 56.00 -4.3X
 0.3s 45.60nm 5.3mb
 OIS 16.60 145 eP 08 36.70 -1.3
 iS 11 28.00
 MBL 16.76 213 iPc 08 40.30 0.4
 eS 11 34.00
 ASPA 17.00 166 eP 08 41.20 -1.7
 0.4s 21.80nm 4.8mb
 iS 11 41.50
 LAT 17.45 90 eP 08 53.94 5.5X
 PMG 17.69 99 eP 08 51.50 0.2
 WARB 19.14 188 eP 09 12.00 4.5X
 eS 12 32.00
 NANU 20.37 220 iPc 09 31.10 11.0X
 0.4s 39.00nm
 FORR 23.64 183 iPd 09 53.20 1.0
 QLP 23.94 146 eP 09 55.00 -0.2
 COOL 24.88 197 eP 10 04.70 0.6
 BAL 26.23 205 eP 10 17.10 0.6
 e 10 50.00
 KLB 26.67 203 eP 10 21.50 0.9
 e 10 54.00
 STK 27.12 157 iPc 10 25.10 0.5
 iPP 10 28.80 13kmX
 iS 15 36.10
 MUN 27.63 205 eP 10 29.00 -0.2
 NWAO 28.06 202 eP 10 34.00 0.9
 PSI 31.97 287 ePd 11 12.60 4.8X
 BFD 32.21 160 iPd 11 11.00 1.3
 CHG 39.59 311 ePd 12 13.00 0.6
 0.9s 10.50nm 4.6mb
 e 16 22.60

GUN 54.61 312 P 14 08.88 -1.1
 0.5s 91.00nm 6.0mb
 PKI 54.77 311 P 14 09.52 -1.6
 0.6s 39.00nm 5.6mb
 KKN 54.99 311 P 14 11.28 -1.3
 0.5s 43.00nm 5.7mb
 DMN 55.02 311 P 14 11.70 -1.1
 0.5s 33.00nm 5.5mb
 GBA 55.57 292 Pc 14 17.40 0.8
 0.6s 3.00nm 4.4mb
 GKN 55.58 311 P 14 15.50 -1.2
 0.5s 63.00nm 5.9mb
 HYB 55.86 297 ePd 14 19.70 1.0
 YAK 68.93 0 eP 15 44.80 0.2
 e 16 09.00
 QUE 70.40 305 eP 15 54.60 0.1
 GAR 71.35 315 eP 15 59.10 -0.9
 NB2 109.63 333 PKP 22 56.80 -12.1X
 0.7s 1.10nm
 LKO 135.45 276 PKP 23 59.06 -0.6
 0.6s 4.00nm
 LPB 150.79 144 ePKP 24 23.00 -3.3X
 ZOBO 150.98 143 PKP 24 29.00 2.2
 1.0s 11.50nm
 PPD 151.02 179 (PKP) 24 33.00 7.0X

30d 20h

SIV 154.79 156 PKP 24 40.40 9.0X
i 24 57.00
S.D. = 1.1 on 29 of 38 obs.

* APR 30, 1991 20h 15m 48.68±0.85s
51.705 N ±16.8km 172.631 W ±10.1km
DEPTH = 33.0km (normal)
4.3mb (8 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK	2.52	276	eP	16	30.40	2.2
SDN	8.09	59	eP	17	47.80	1.1
PDB	13.13	45	eP	18	56.50	1.3
IMA	17.29	26	eP	19	49.50	0.5
	1.0s	6.25nm			3.7mb	
INK	25.01	34	eP	21	09.00	-1.5
YKA	32.19	48	eP	22	12.30	-2.9X
	0.5s	0.40nm			3.6mb	
NEW	35.13	73	eP	22	41.70	0.8
	0.7s	7.00nm			4.7mb	
TNP	40.57	87	eP	23	25.50	-1.2
			e	23	39.50	
FFC	40.78	57	eP	23	31.00	3.1X
	0.7s	6.00nm			4.4mb	
BW06	42.51	76	eP	23	43.00	0.4
MSU	43.44	83	eP	23	51.50	1.3
			e	24	02.50	
PLM	43.83	92	eP	23	52.00	-1.4
			e	24	06.50	
ANMO	49.24	83	P	24	37.00	1.0
	1.2s	16.60nm			4.9mb	
NB2	67.56	358	P	26	40.70	-2.7
	1.0s	2.80nm			4.3mb	
HFS	68.40	357	eP	26	45.20	-3.3X
	0.6s	1.70nm			4.3mb	
Z	12s	0.02um			3.6mszX	
PRU	78.50	355	P	27	46.80	-0.8
KHC	79.40	356	P	27	52.00	-0.6
WB2	85.02	229	eP	28	21.30	-0.6
	0.5s	1.00nm			4.3mb	
WRA	85.03	229	P	28	39.00	17.1X
	1.0s	0.80nm				
WRA	85.03	229	P	28	41.00	19.1X
	1.0s	0.90nm				

S.D. = 1.5 on 15 of 20 obs.

& APR 30, 1991 21h 06m 48.98s
59.940 N 153.094 W
DEPTH = 118.3km
SOUTHERN ALASKA (2)
<AEIC>

RED	0.51	18	iPc	07	06.39	-0.8
			eS		07 19.62	
RS2	0.55	18	ePc	07	06.97	-0.6
			eS		07 20.88	
RSO	0.55	18	ePc	07	06.94	-0.6
			eS		07 20.49	
RDW	0.56	14	ePc	07	06.92	-0.7
			eS		07 20.65	
PDB	0.57	255	iPd	07	06.47	-1.0
			eS		07 19.98	
RDN	0.60	16	iPc	07	07.19	-0.6
			eS		07 20.90	
AUE	0.60	194	ePd	07	06.71	-0.9
			eS		07 19.46	
AUH	0.60	197	ePd	07	06.98	-0.8
			eS		07 20.19	
NCT	0.63	7	eP	07	07.31	-0.7
			eS		07 21.38	
AUI	0.63	196	ePd	07	06.92	-0.9
			eS		07 20.60	
DFR	0.69	17	ePd	07	07.69	-0.7
			eS		07 22.99	
RDT	0.72	28	iPc	07	07.92	-0.8
			eS		07 22.39	
HOM	0.79	110	eP	07	08.82	-0.3
			eS		07 24.26	
XLV	0.85	124	ePc	07	08.65	-1.1
			eS		07 24.16	
NNL	0.91	83	iPc	07	10.50	0.2
MCNL	0.99	220	iPd	07	09.81	-1.2
			eS		07 25.88	
CNPM	1.03	113	iPc	07	10.62	-0.9
			eS		07 27.31	
CDD	1.05	196	iPd	07	10.42	-1.3
			eS		07 28.36	

BRK	1.13	98	iPc	07	11.73	-0.8
			eS		07 29.03	
NKA	1.23	48	ePc	07	14.45	1.0
CKL	1.32	16	iPd	07	14.15	-0.5
			iS		07 33.46	
SPU	1.35	22	iPd	07	14.22	-0.7
BGL	1.37	14	iPd	07	14.98	-0.3
SYI	1.38	165	iPd	07	14.24	-1.0
CRP	1.41	19	iPd	07	15.39	-0.4
			eS		07 35.78	
NCG	1.54	17	eP	07	16.73	-0.5
SLKM	1.54	67	eP	07	16.07	-1.2
SEW	1.84	83	iPc	07	19.64	-1.1
SUA	1.92	36	ePd	07	20.57	-1.3
PMS	2.18	52	ePc	07	24.07	-1.1
SKT	2.19	20	iPd	07	24.26	-0.9
			eS		07 52.18	
PWA	2.33	41	ePd	07	25.79	-1.2
PLRM	2.56	48	eP	07	28.30	-1.7
KNIM	2.71	79	eP	07	29.62	-2.4
KNK	2.72	55	ePd	07	30.02	-2.2
MTU	2.74	87	ePc	07	31.09	-1.3
GHO	2.75	46	ePd	07	30.47	-2.1
CUT	2.83	28	eP	07	32.49	-1.1
SML	2.99	49	ePd	07	33.55	-2.2
SCM	3.40	54	eP	07	38.55	-2.8
VZW	3.42	68	eP	07	40.33	-1.3
HUR	3.47	27	eP	07	41.33	-0.9
VLZ	3.55	67	eP	07	41.64	-1.6
TRF	3.77	20	eP	07	44.79	-1.6
KLU	3.85	63	eP	07	44.75	-2.7
TOA	4.01	54	eP	07	47.46	-2.1
RND	4.02	28	eP	07	47.85	-1.9
PAX	4.76	47	ePc	07	57.73	-2.0
GLB	4.81	68	eP	07	58.22	-2.1
NEA	5.02	20	eP	08	00.89	-2.3
WRH	5.11	25	eP	08	02.12	-2.4
TGL	5.16	76	eP	08	03.48	-1.8
HDA	5.32	30	eP	08	04.90	-2.5
CCB	5.33	25	ePd	08	04.61	-2.8
RDS	5.42	23	eP	08	06.13	-2.5
BALM	5.43	74	eP	08	07.47	-1.5
MDM	5.52	22	ePd	08	07.50	-2.6
FBA	5.55	24	eP	08	07.57	-2.9

58 obs. associated

% APR 30, 1991 21h 16m 13.19±1.87s
17.858 N ±21.2km 66.804 W ± 8.6km
DEPTH = 23.1 ± 16.2 km
PUERTO RICO REGION (90)

PORP	0.25	39	P	16	19.50	0.1
MGP	0.31	299	P	16	20.20	0.0
LRS	0.44	355	P	16	22.20	0.0
			S		16 29.50	
SJG	0.67	68	iP	16	26.00	-0.2
CPD	0.86	78	P	16	29.50	0.1
LPR	1.00	63	P	16	31.70	0.0
			S		16 45.70	

S.D. = 0.2 on 6 of 6 obs.

% APR 30, 1991 22h 24m 08.42±0.57s
11.227 N ± 5.4km 61.229 W ± 6.6km
DEPTH = 33.0km (normal)
WINDWARD ISLANDS (95)
MD 3.3 (TRN).

PIG	0.39	100	eP	24	17.71	0.4
			eS		24 25.85	
TPR	0.45	95	eP	24	18.38	0.2
			eS		24 26.80	
BOT	0.51	97	eP	24	18.91	-0.2
			eS		24 27.48	
TRN	0.60	197	eP	24	20.00	-0.4
			eS		24 28.70	
TCE	0.74	224	eP	24	22.43	0.1
			eS		24 32.45	
TBH	0.76	168	eP	24	21.87	-0.7
			eS		24 33.42	
TPP	0.93	194	eP	24	26.05	0.9
			eS		24 35.37	
SVV	2.08	0	eP	24	41.95	0.3
			eS		25 08.71	
SLB	2.59	4	eP	24	48.54	-0.4
			eS		25 20.63	

S.D. = 0.6 on 9 of 9 obs.

APR 30, 1991 23h 38m 19.81±0.41s
40.753 N ± 4.6km 29.186 E ± 3.2km
DEPTH = 9.0 ± 5.6 km
TURKEY (366)
MD 3.4 (ISK).

GBZT	0.20	80	ePg	38	24.20	0.1
			iSg		38 27.00	
YLV	0.23	143	iPg	38	24.70	-0.1
			iSg		38 28.30	
ISK	0.33	343	iPg	38	26.80	0.3
			iSg		38 31.50	
HRT	0.37	79	iPg	38	27.30	-0.1
			iSg		38 32.40	
IZI	0.47	152	iPg	38	29.10	-0.2
CTT	0.70	305	iPg	38	33.20	-0.4
EYL	0.76	104	iPg	38	34.10	-0.8
KCT	0.81	232	iPg	38	34.50	-1.1
GPA	0.97	118	iPn	38	38.00	-0.4
BNT	1.04	248	iPn	38	39.50	-0.1
EDC	1.09	249	ePn	38	40.00	-0.3
DST	1.22	201	iPn	38	42.60	-0.1
KGT	1.46	259	ePn	38	46.60	0.2
DMK	1.52	315	iPn	38	47.30	0.2
ALT	1.84	157	ePn	38	53.40	1.5
KHL	2.44	174	ePn	39	06.00	5.5X

S.D. = 0.7 on 15 of 16 obs.

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					
AAE					X									X	X				X		X	X	X			X				XXX					
AAI								XXXX										XXX				X	X	X		X	XX	XXXX	XX		XXX				
ABH	XXX		X	X	XX		XX	XX	X	X			XXXX	X	X	XX		X	X	X		XX		XXXXXX	XX	X	XXX	X	X		XX	XXXX			
ABL		X	X		X	X		X					X	X	X	X	X	X	X					X											
ACU		X			X	X	X									X																			
ACX	XXXXXX		XXXXX	XXXXX			X	X							X						X		X	XXXXXX	X		X	X			X				
ADE	X	X	X	X	X	X	XXXX	X	XX	X	X	X		XX		X	X	X	XXX	XX	XX		X	XXXXXX	XX	X	X	XX		X	X	X			
ADK		X			XX	XX	X	X	XXXXX	X			X		X	X	XX	XX	X		X		XXX	X		XX	XX	X			X	X			
AFC	XX	X			X	X	XXX			X	X					X	X	X	X	X		X	X	XXX	X		X	X	XXX		X	XX			
AFI	X				X		X	X		XX			X	XX	X			X		X		X					X	X	XXX		X	XX			
AFR	XX	X			XXX	X		X	X					X	X			XX			X										X	X	X		
AGG	X	X		XX	X	XX		XX	XX	X	XX		XX	XX	X	X	X	X	XX			X	XX	XX		X	X	XX	X	X		XXX	XX		
AGO		X	X		X			X						X	X			XX	X			X							X			XXX			
AIA		XXXXXXXXXXXXX		X	XXXX		XX	XXXXXXXXXX	XXXXXXXXXX	X	X	X	X	X	XX	XX	XXXX	XXX	XXX		X	X	XX	XX	X	X	XXX	XX	X			X			
AKU				X	X			XX	X						X	X		X	X					X	X	X		X				XXXX			
ALJ				X	X							X	X																						
ALN				XX				X										X				XX	X									X	X	X	
ALO	XXX	XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX		XX	XXX	XXXXXXXXXX	XX	XXXXXXXXXX	XXX	XXXXXXXXXX	XXX					X	X	XX	X	XXXXX	XXXXXXXXXX	X	XXXXXXXXXX		XXXXXXXXXX		XXXXXX	XX			XXXXXX	XX	
ALT								XX	XX	X	X	X	X		X	X	X	X	XXX		X	X	XX	X		XX		X	XX	X			XXXX	X	
ANCC				X	X	X																		XXX	X	X	X						X		
ANGL		X			X	X	X							X		X							X	XX	XX	XX		X				XX			
ANM	XX	X	XXX		XXXXXX	X	X	XXXXX	X	X				X	X	XX	XX	XX	XXX	XXXXX	X	XXX	XXX	XXX		X	XX	XXXX	X			XXXXXX			
ANMO	XXXX	X	XX		X	XXXXXXXX	X	XXXXXXXXXXXX		XXXXXXXXXXXXXX		XXXXXXXXXXXXXX		XXX	XX	X		XXXXXX	XXX	XXXX	X	XXX	XXX	XXX	X	XX	X	XX	X			XXXX	X		
ANT	XX	XX		XXXXX	X	XXX	XXXXXX	XXX		XXX	X	XX	XX		X	X		XXXXX	XXXX	XXXX	XX	XX	X	XX	X	XX	XXX	X			XX	XX	XX		
AOMJ		X			X	X		XX						X	X	XX		X	X													X			
APO	XXX				X		X	X	X	X		X	X	X	X			X			X														
AQU				XX			X		X	X	XX		XX	XX	XX	X		X	X		XX	X	XX	X	X		XX	XX				XXXX	X		
ARE	XX	X	XXX	X	XXXXXXXXXXXXXXXXXXXX	X	XXX			X	XXX	X	X	XX	XX	XX	XXXX	X	XXXXX	XXXXXX	XXXXXX	XXXXXXXXXX		XXXXXXXXXX	X		XXXXXXXX					XXXXXX			
ARN		X		X	X	XXX	X	X		X	X	X	XX	X	X	X	X	X	XX	XX	XX	X	X	X		X	X	X	X	X			X	X	
ARO		X			XX			X													X		X	X			XX					X	X		
ARV	X			XXXX	XXXXX	XXX		X	X	XXX	XX		XX	X	XXXXX	XXXXXXXX	X		X	X	XXXX	X	XXXXXX	XX	XXXX	X	XXXXXXXXXX	XXXX	XX				XXXX	XX	
ASAJ	X	X		X	X	XXXX	X	X	XX	XX		XXX	XXX		XX		XX	X	X	X	XX	XX	XX	XX	XX	X	XXXX	X	XX	X			XXXX	XX	
ASK			XX	XX			X			X	X	X		X		XX	X	X	X		X		X	X	XX	X	X	XXXX				XXX	X		
ASPA	XXXXXXXX		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXXXXXXXXXX
ASR			X				X		X					X	X						X	X		XX		X	XX	X							
ATE		XX			X	XX				X	X		X					X	X		XX	X	X				X		XX	X	X		X		
ATH					X	XX	XX		XX	X	XX		XX		XX	XX	XX	X		X	X	X	X				XX	X	X	X	X		X	X	
ATN		X		X		XX		X		X	X		XX	X		XX	X	X	XX	X	XX	X	X				XX	X	X	X	X		XXX		
AUE			X	X	X	X	X	XXX	XX	X		X	X	X		XX	X	X	X	X		X	X	XX	X		XX	X		X	X		XXXX		
AUH				X	X	X	X	XXX	XX	X		X	X	X	XX	X		X	X	X		X	X	XX	X		XX	X		X	X		XXXX		
AUI			XXXX	X	X	X	X	XXX	XX	X		X	X	XX	X	X	X	X		X	X	XX	X	XX	X	X		X	X			XXXX			
AURF		X		X	X	X		X					X	X	X		X		X		X	XX	XX		X	X	X					X	X	X	
AUTN			X		X			X					X	X	X		X		X		X	XX	XX		X	X	X					X	X	X	
AVE	XXX	XXX		X	XXXXX		X	X	X	XX		XX	XX		XX			X	XXX		X	X	XX	XX	XX		XX	X				XXXX	X		
AVF	XXXX	X		XX	XXX	XX	XX	XX	X	XX	X		XXXX	XX	XX	X	XX	XXXX	XX	XXXXXX	XX	XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXXXXXXXXXX	
AZI	X			XXX		X		X	X	X		X		X	X	X	X	X		X	X	X	XX	X		X	X	X				XXX	X		
BADA		XX				X		X		X		XXX						X															XX	XXXX	
BAG	X	X		X	X	X	X	X	XXXX	X	X	X	XX	X	X	X		X									XX	XX	X	X	X	X	XXXX	X	
BAI			X		XX		X	X					X	X		X		XX									X	XX					X	X	
BAL	XXX		X	XX	X	XX		XXX	XXXX	X	XX	XX	X	XX	X	X	XXX	X									XXX	X	X	X				XXX	
BALM	XX	XX	XX	XXXXXX		XX	XX	X	XX	X	X	X		X	X	XXX	XXXX	X	XXX	XX							X	X	XX	X			XXXXXX		
BAO		X	XX	XX		X	XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXX	X	X													XXXX		XXXX									
BAR	XX				X	X	XXXXXX	X	X				XXX	XX	X			X									X	X	X				X	XX	X
BBL			X	XX	X	X	X		X	X	X		XX		X	X	X		XXX								XX	X					X	X	XX
BBS	X				X	XXX			X	X	X		X	X	X			X																XX	
BBTK	X	X	X	XXXX	XXX	XXXXX	X	X	X	XXXXXXXX		XXXXXXXXXXXX	XXX	XXXXXXXXXX	XX			XXXXXXXXXXXXXXXXXXXX	XX	XXXX	XX	XX	XXX	XXXXXX	XXX	XXXXXXXX	XXX	XXXXXXXX					XXXX	XXX	
BBU		X				XXX	XX	XX		X	X					X	X	X									XX	X					XXX		
BCH		X	X		X	X	XX	X	X				X	X	X	X	X	X	X	X		X	X	X	X		X						X		
BCK								XX	XX	X	XXX	XX	XXX	X	XX	XXXXX	X	X	XXX	X							X	XX					XXX	X	
BDI	X			X	X	X	X		X	XXX	XX	X	XXX	X	XX	X	X	X	X								X	X	X				XXXX	X	
BDT	XXX	XXXXXX		XXX	XXXX	X		XXXX	XXXX		XXXX	X	X	X	X	X	X	X									XXXX	XX					XXX	XX	
BDV	X	X		XXX	X		XXX		X	X	XX	XXXX	X	XXX	X			X									X	X	X				X	X	X
BEE			X	XX				XX	XX	X						X	X																	X	
BE0	XX		X		XX	X		X	X	X		X	XXX	XX		X	X	X	X		X						X	XXXX					XXXX		
BER				X	X	X		X								X											X	X						XXX	X
BFD	X	X		X	X	X	XXXX	X	XX	X	X		XX	X		X	XXX	X	XX	X													XXXX	XXX	
BGF	XX	X	X	XXX	XXXX	XXXXXX	X	XX	X	X		XXX	XX	XX	X	X	XXX	X	XX	XXXXXX	XXX	XX	XXXXXX	XX	XXXXXXXXXXXXXXXXXXXX	XXX	XX	X					XXXX	XXX	
BGL	XX	XXXXXX		XXXXX	X	XXX	XX	X	X	X	XX	X	XXXX	X	XX	XX	XXXXXX	X	X	XXXXXX	XX	XXXXXX	XX				XX	X	X	X	XX		XXXXXX		
BHB	X	X	X	X	X	XXX	X	X	X	XX	X	X		XX	X	X	XX	XX																	
BHG				X	XX		X		X	X	X			XX	X	X	XX																	XXXX	
BHL	X				X	X		XXX			X		X	X	X	X																			

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
BKS	XX	X		X	XXX	X	X	X			X	X	X	X	X	X	X	X	XX	X	X	XXX	X	X	X	X	X	X	X	XX	
BLA	XX			X	XXXX		X	X	X		X	X			X	X		X	X	X	XX	XX	XXX	XX	XXX	X	X	XX	X	XX	
BLP		X		X	X	X		X				X				X													X	X	
BMA	X	X	X	X	X	X	XX	X	XX	X	X	X	XX	XXX					XXX	X	X	XXX		X		X	XX	X	XX	X	
BMC				X	X	X	X					X	X			X			X			XXX	XX	X		X					
BMW				X	X	X	X		X	X			XX	X	X			X	X	X		X	X	XX	XX	XX	XX	X	X	X	
BNH					X			X	X			X				X			X			XX	X		X				XX		
BN1	X	X		XX	X	X	X	X	X	X	X	X	X	X	X	XX	XX	X	XXX	XXX	XXX	XXX	X	X	X	XX	XX	X	X	XXXX	
BNS	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	XXX	
BNT								XXX	XXX	XXXXXXX				XX	XXX	XXX	XX	XX	X	XX	XX	XXXXX	XXX	X	XX	XX	XXXXXX	XXX	XX	XXXXXX	XXX
BOB	X			X	X	X	XX	XX	X	X	X	X	XX	X	XX			X	XXXXX	XX	X	X	X	X	X	X	X	X	X	XXXXXX	
BOG	X			X	X	X		X	XX			X	X			X			X			XXX	XX	X		X			X	XX	
BOH		XX		X	XX			X			X										X	X	X		X			X	X	X	
BOM	X	X		X	XXXX	X								XX	X	X	X	X	X	X	X	X		XX	X	X	X	X	X	XX	
BONR	XX			X	X	XXX	X	X	XX	XX	XXX	X	X	X	XX	X	XX	XX	XXX	XX		X	X	X	XX	XX	X	X	X	X	
BPA				X	X			X	X	X	X			XX	XX	X	XX	XX	XXX	XX	X	XX	XX	X	X	X	X	X	X	X	
BRG	XX	XXXXXX	XX	XXX	X	XXX	X	XXXXXXX	X	X				XXX	XX	XXXXXXXXXXXXXX	XXXX		XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	X	XXXXXXXXXX				
BRK	XX			X	XXX	X	X	X	X		X	X	XX	X	X	X	X	X	XX	X	X	X	X	X	X	X	X	X	X	XX	
BRK	X	XXXXX	X	X	X	XXX	X	X	X	XX	X	X	XX	X	XX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	XXXX	
BRN	X			X	X			X			X			X	X			X			X	X	X	X	X	X	X	X	X	XXX	
BRS	X	X	XXXX	X	XX	XX	XX	X	XX	X	X	X	X	X	X	X	X	XXX	XX	X		XX	XX	X	XX	X	XXX	X	X	XX	
BRT			X	XXX	XXX	XX	X	X	XXX	X	X	X	XX	XX	X			XX	X	X	X		XX		XX	XX	XX	X	X	XX	
BRW	XX		X	X	X	X	X	XXX	X	X		X	X	X	XX	XX	XX	XXXXXXX	XXX	XXX	X	X	XX	XX	XX	XX	XX	XX	XX	XXXX	
BRV		X		XXX	XX	XXX	X	X	X	XX	XXXX	X	X	X	X	X	X	X	XX	X	XX	X	XX	X	X	X	X	X	X	XX	
BSD	X			X	X	X												X													
BSF	XXX	X		X	XXX	X	XXXX	X	XXXXXX	X	XXXXXXXXXX	XX	XXX	XXX	XXX	XX	XXXXX	X	XX	X	XXXXXXXXXX	XXXXXXXXXXXXXXXXXX	X	XXXXXX	X	XXXXXX	X	XXXXXX	X	XXXX	
BS1				XX				X	XXXX	X	XXX	XXX	X	XX	X	XX			XX	XXXX	XX	X	XX	X	XX	XX	XX	X	XX	XX	
BTH	XX	X		X	XXX	X	XX		X	X		XX	X	XX	XX	XXXX	X		X	XXX	X	X		X	XX	XX	X	X	XX	XX	
BTO	X	XX	X	XX	XXXXXXXX	X	XXX	XX	X	XX	XXXX	X	XX	X	X	XX	XX	XX	XXXXXX	X	X	XX	X	XXXX	XXXX	XXXX	X	XXXX	XX	XX	
BUC	X	X	X		X			X			X							X	X		X	XXX	X		XX	XX	X	XX	X	XXX	
BUD	X			X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
BUL	X		XX	XX	XXXXX	X	XX	X	X	X	X			X	X	XXXXXXX	XXX	XX	XX	X	X	X	X	X	X	X	X	XX	XXX	X	
BURJ				X	X	X		X						X	X						X									XXX	
BW06	XX	X	X	X	XXXXXXXXXX	X	XXXXXXXXXX	XXX	X	XXX	X	X	X	XXX	X	XX	XXXX	XXXX	XXXX	XXXX	X	XXXXXXXX	XXX	X	XXXX		XXXX			XXXX	
BWN	X	X	X	XXXX	XXX	X	X	X	X	XX	XX	X	X	XX	X			X	X	XXXXXX	X		X	X		X	X		X	XXX	
BZS	XX		X	XX	XXX	X	X	X	X	X	XX	XX	X	X	X	XX	X	X	X	X	X	X	X	X	X	X	X	X	X	XXXXXX	
CAF	XX	XX	X	X	XXX	X	XXX	X	XX	X	XXX	XXX	XX	X	X	XX	X	XXX	XXXXXX	XX	X	XXXXXXXXXX	XXXX	XXX	XX	X	XXXXXXXXXX				
CAI				X	XXXXXXXX	X	XX	X	XX					X	X	XX	X	X	X	X	X	XXX	X	XX	XX	XX	X	XX	X	XX	
CALA					X		XX	X	XXX																						
CALN			X	X	X									X	X				X	XX	XX	XX	X	X					X		
CAW	X			X				X	XX					X	X	X	X	X	XX	X	XX		X		X		XX	X	X	X	
CAYA		X	X	X	XX	XXXX	XX	XX	X	XX	X		X	X							X	XXX	X	X					XXX		
CBM							X	X	XX									X	XX			XXX	X		X	X	X	XXXX	X		
CBN	XX		X	XX	X	XXX	X										X		X	X	X	XXX	X		X	X		X	X		
CCB	X	X	XX	XXXX	XXX	XX	X	X	XX	XX			X	X	XX	X		X	X	XXXXXX	XX	XX	X	X	X	X	X	X	XXXX		
CCH	X		XX	XXXXXXXXXXXXXXXXXXXX	XX			XX	XXXX	X	XXXX	XXXX	X	XXXX	XXXX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
CD2	XXXX	X	XX	XXXX	XXXX	X	XX	X	XX	X	XXXX	X	XXXX	X	XX	XX	XX	XXXX	XX	X	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
CDD	XXXX	XXXX	X	X	X	XXX	XX	X	X	X	X	X	XX	X	X	XX	X	XX	X	X	XX	XX	XX	XX	XX	XX	XX	XX	XX	XXXX	
CDF	XXXX	X	X	XXX	X	XXXXXX	X	XXXX	X	XXXX	XX	XX	XXX	XXX	XXX	XXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
CDR	X	XXXX	XXXXXXXXXXXX	X	XXXXXX	XXXX	XX	XX	X	X	XX	X	X	XXXX	X	XXX	XXXX	X	XX	XXXX	X	XX	XXXX	X	XXXX	X	XXXX	X			
CEI				X										X							X	X	X					X	XXX		
CEOS				X	X	XX	X		X	X					X							XX	X	X			X	XX	XX		
CER					X	XX		X	X	X							X	X											X	X	
CEY				XXX	XXX					X	X			X	X	XXXX			X	X	X	X	X	X	X	X	XX	XXX	XX	XXX	
CFA	XXXXXX	XXXX	XXXX	X	XX	XXXXXX	X	X	XX	XXXXXX	X	XX	X	XX	X	X	X	XX	X	XX	X	XX	XX	XX	XXXX	XXXX	XXXX	X	XX	XX	
CFR	X	XX	X	X	X		X		X	X	X	X	X	X	X	X	X	X	XXX	X	XX	XX	XX	X	XXX	X	XXX	X	XXX	X	
CGX	XXX		XX	XXX		X								X	X						X	X	X		X	X	X	X	XXX		
CHG					XX									XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	
CHJJ	X	XX	X	XX	XX	X	XX	X	XX	X	XX	XXXX	X	XX	XXXX	X	XX	X	XX	X	XX	X	XXXX	X	XX	X	X	X	XX	XX	
CHTO																															
CIN	XXXXXXXXXXXXXXXXXX	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	
CIS		X		X				X	XX	X	X	XX	X								X										
CKI		X		XX	X	X		X	XX	X				X	X	X	XX	X	X	XX	X	XX	X	XX	X	X	X	X	X	XX	
CKL	XX	XXXX	XXXX	X	XXX	XX	X	X	XX	X	X	XX	X	XX	XXXX	X	X	XX	XXXX	XX	XX	XXXX	XX	XX	X	XX	X	XX	XXXX	XXXX	
CLC	XX	X	X	XXXXXXXXXX	X	X		X			XXXXXXXXXX	X	X	XXXX	X			X	XXX	XX	XXX	XX	XX	X	XX	X	X	XX	XXXX		
CLE	X			X	XXX	X		X	X												X	XXX	X	X	X	X	X	X	XX		
CLL	XX	XX	XX	XXXXXXXXXXXX	X	XX	X	XX	X	XX	XXXX	X	XXXX	XX	XX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
CLLP		X	X					X	X			X	XX	X							X								XX	XX	
CLMC				X	X	X																									
CMB	XX	X	X	XXXXXXXXXX	X	XX	X	XXXX	XX	X	XXXX	XXXX	XXXX	X	X	XX	XX	XXXX	XX	XX	X	XXX	XXXX	X	X	XX	X	X	X	XX	XX
CMP	XX	X		X	XXX	X	XX	X	X	XX	X	XX	X	X	X	XX	XX	X	XX	X	XX	X	XX	X	X	XXXXXX	X	XXX	X	XX	
CMS	X	X	X	X	XXXX	XXXX	X	X	XX	XX	XX	X	X	X	X	XX	XX	X	XX	XX	X	XX	X	XXXX					X	XX	
CN2	X	XX	X	XX	XXXXXXXXXX	X	XX	XXXX	XX	XXXX	XX	XXXX	XX	X	X	XX	XX	XXXX	XX	X	X	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
CNB	X	X	XX	X	X	X	XXXX	X	X	X	X	X	X	X	X	XX	X	X	XX	X	X	XX	XX	X	XX	X	X	X	X	XX	
CNCB	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX</																												

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		
COO	X	XX		X	X	XXXXXXX	X	X	X	XXXXX		X	X	X	XX	X	X	XXX	XX	XX	XX	XX		X	X	X				XX	X	
COOL	X	X		X	X	X	X	XXX	XX	X	XX	X	X	XX	X	X		XXX		X	X		XX	X	XXX	X	XX	XXXX			XXX	
COP				X	X	X		X										X				X	.	X								
COTA		X	X	X	X	XXXXX		X	XX	X	XX	X		X	XX			X			X	XXX	X							XX	X	
COZ	XX		X												XX			X			X								XXX	X		
CPD		X			XXX	X	X		XXX	X			X	XX	X	X		X		X	XX	X	XX	X	X			X		X	XX	
CPE					X	X						X			X		X		X			X								X		
CRE	X		X	XX		XXXX	X	XXXX	X	XX	XX	X		X	XX	X	X	X	X	X	X	XX		XXXXXXXX	XX	XX	XX	XX	XXXXXX			
CRM			X								X		X			X		X		X		X							X			
CRP	XX	XXXXX	XXXXX	X	XXX	XX	X	X	X	X	X	XXX	X	X	XX	XXXXX	X	X	XX	X	XXX	XX	XX		XX	X		XX	X	X	XXXXXX	
CROM		X	X	XX	X	XX		X	X		XX	X		XXX	X	XX	XX		X	X	XXX	XX	XX	X	XX	X		X	X	X	XXX	
CRX	XXXXX				XX		X	X	X			X	X	X	X	X	XX	X	X	X			X				X	X	X	X	XXX	
CRZF			X				X					X										X	X						X	X	X	
CSS		XX		X		XX		XX		X	X		XX		X	X	X	XX	X	X	X	XX	X		X	X	X	X	X	XXX		
CSJTJ				X	X	X		X		X					X				X	X	XX					X			X	X	X	
CSY	X	XXX	X	XX	XXXX	XXX	X	XXXXXXXX	XX	XXX	XX	X	X	X	XX	XX	X	X	XXX		XX	XX	XX	XX	XX	X	XX	X	X	XX	X	
CTA	XXX	X	XX	X	X	XXXXX	X	XX	X	X		XX	X	XX	X	X	X	X	XXX	XX	X	X	XXX	XXXXXX	X	XX	XXXX	XX	X	XX	X	
CTGM		X	X			X	X	X		X		X	X	XX	X	XX	X		X	X	X	XX	X	XX	X	X	X	X	X	X	XXX	
CTI	X			XX	XXX	XXXXX		X	XX	X	XXX		X	X	XXX	X		XXX	X	X	X	XX		X	X	X	X	XX	XXXXXX			
CTT							XXX	X	XXXXXXXXXX	XXX	XX	X	X	X	X	X		XXX	X	X	XXXXXXXX		X	XXXX	XX	XX	XX	XXXXXX	XXXXXX			
CUM				X	X	XXX		X	X			X	X					X					XX	X	X			XX		XX		
CUMC				X																			XXX	X	X	X			X		X	
CUT	XX	XXXXX	XXXXX	X	XXX	X	X	X	XX	X	X	XXX	X	XXX	XX	XXXXX	XX	X	XX	X	XXXXXX	XX	XX	X		XX	X		X	XXXXXX		
CVA		X	X				X		X		X				X	XX	X		X		XX		X	X		X	X			X	XX	
CVL				X	X	X	X			XX		X	X	X		X	X	X					XXX	X	XXX	X		X	X	XX	XX	
CVO	XX	X	X	X	X			X		XXX	X		X	X	X	X	XXX					XXX	X		XXX	X		X	X	XX	X	
CVP																		XX	X	XX	X	XX									X	
CZM				X						X									X				XXX			X	X	X	X			
DAG	XXXX	X		XXXXXXXXXXXX	XXXXXXXXX	X											XXXXXX	XX	XXXXXX	X	X	XX	XXX	XXX		X	XXXXXXXX	X	X	XXXXX	X	
DAU	X			X	X	X	X	X	XX	X			X	X	X	XX										X	X	XX		XXX	X	
DAV	XX		X	X	X	X	X	XX	X	XX		XX		X	X	X		X	X	XX	X		XX	XX	X	X	X	XXX	X	X	XX	X
DBN	XX			X	X	X							X	X								X									XXXX	
DDM	X	X	X	XXXXX	XXX		X		X	X	X		X		X	X	XX	X		X	X	XXX	XX	X		X	X			X	XXX	
DEG	X	X	XXX	X	XXX	XX		XX	X		X	X	XX	XX	XX	X	XXX	XXX	XXXXXXXXXX	XXXXX	XXXXX	XX	X	XX	X	XXXX	X	X	XXXX	X		
DEV	X			X	X	X				X					X	X	X	XX	X		X	XX				X	X	X	XX	XX	X	
DFR	XX	XXXXX	XXXXX	X	XXX	XX	X	X	X	XX	X	XX	X	XX	XX	XXXXX	X	X	XX	X	XXXXXX	XX	XX	X		XX	X	X	XX	XXXXXX		
DHJN	X			X	X	X						X						X			X	X					XX	X		XXX		
DHR				XX	X						X					X	X	XX	X		X					XX	X	X		XXX		
DIM		X					X	X		X					X			XX	X		X					XX	X	X		XXX		
DIX	X		X	X	XXX	X		X	X	X		X		X	X	X	X	XX				X	X	XXX	X	X	XXXXX	X	X	XXXXXX		
DL2	X	X		X	X	X	X				XXX	XX	X	X	X	XX	X	X	X	X	X	X	XX		X	XX	X			XXX		
DLA				X	X	X	X			X								X				X	X	X		X				X		
DMK							XX	X	XX	X	XX	X	XXX	XX					X	XX	X	XX	XXXXX	X	XXX	XX	XX	XXXXXX	XXXXXX	X	X	
DMN	XXXX		X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
DQG	X		X	XX	X	XXX	X		X	X	X		X	XX	X	XX	X	XXX	X	X	X	X										
DOI	X	X	XX	X	X		X	X	XX	X				X	X	X	XX	X	XX	X	XXX	X	XXX		X	X	X	X		XX	XXX	
DOT											X	X			XX	X	X		X	X	XXXX	X			X				X	XXX		
DOU	XXXX	X	XXX	XXX	XXX	X	XX	X	XXXXX	X	XXX	XXXX	XXXXXXXX	XXXXX	XXXXX	XXXXX	XXXXX	X	XX	XXX	XX	XX	XXXXXXXX	XXXX	XXXX	XXXXXX	X	XXXXXX	XX	XXXXXX	XX	
DPW	X				X	X	X		X	X	X				X	X	X	X	X		X			XXX	X		XX	X		X	X	
DRV	XX			X	X	X	X	X	X			X	X	X	X							XX			X					X	X	
DS1	X	XX		X	X					X					X		X	X	X	X		X			X				XXX	X		
DST							XXXXXXXX	XXXXXXXX	XXXX	XXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	
DUG	XX			X	X	X	X		XX	XX		X		X	X	X	X	X	X	X	X	X	X	X	X	XX	X	X	X	X	X	
DUI	X			XXX	X	X	X	X		X		X	X	X	X	X	X	X	X	X	X	XX	X	XX	X	XX	XX	XX	XX	XXXX	X	
DZM	XXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	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	
EAB				X		X				X	X				X	X			X		X		X		X					X		
EBAN	X			X				X	X			X			X	X	X	X	X	X	X	XXX	X				X	X		XXX		
EBG							X	X						X	X	X			X	X	X		X			X	X	X				
EBH				X		X								X	X				X	X	X		X				X	X	X			
EBL				X		X				X				X								X	X	X	X					XXX		
EBR				X	X	X	X	X		X	X	XXXX	X	X				X	X	X		X	XXX	X						X	XX	
ECB	X			X	X	X	X		X	X			X	X	X			X	X			X	XXX	X				X		X		
ECH	X			X	XXX	X			X	X	X		X	X	XX	X	X	X	X	X		X	X	X						XX	X	
ECHE	X	X		X	X	X	X		X	XX		X					X	X		X	X		XXX	X				X	X		X	
ECO				XXXXXX	XX		X	XXXXX														X									X	
ECOG	XX	X		X	X	XXX	X		X	X					X		XX	X			X	X	XXX	X		X	X	XX	XXX		XXX	
ECP	X			X	X	X	X						X	X	X			X	X			X	XXX	X			X	X		XX		
ECRI	X	X		X	X	X	X		X	X	X						X	X			X		X	XXX	X			X	X	X	XX	
EDC							XXX	XXX	X	XX			X	X	X		X	XX	XX	X	XX	XXXXXXXX		XXX	X	XX	X	X	XXXXXX	XXXXXX	XX	
EDI				X		X				X					X							X	X	X						XXX		
EDM	XX			X	X	XXX	X	X	XXX	XX	X	X	XX	X	X	XX	XX		X	X	XXX		X	XXX	XXX	X	X	X	XXX	X	XXXXXX	
EDU				X											X	X						X		X						X		
EGD		X		X	X	X	X			X	X		X		XX	X	X		X	XX		X		XX	X	XX				X	X	
EGRA	XX	X		X	XX	X		X	X	X	X		X									X	X	X	X					X	XX	
EGUA				X	XXXX				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	
ELF				X	X	X	X			X												X	X	X						X	
ELL								XXX	X	X	XXX	X	XX	X	XXX	XXXXXXXXXXXXXX	XXX	X	X	XX	XXXXXX	XXXX	X	X	XXX	XX	XXX	XX	XXX	X	
ELO				X			X		X						X	X				X		X	X							XXX	
ELYF		XX		X	XX				X												X	X	X					X	X		
EMON	X	X		X	X	X		X	X	X		X									X	X	XX	X				X	X	X	
EMS	X		X	X	XXX	X		X	X	X		X		X	X	X	XX				X	X	XXX	X	X	XXXXX	X	X	XXX	X	
ENIJ	X	X		X					X							X	X	X			X		XXX	X				X	X	XX	
ENN	XX	X		X	XXXXX	X	X	XX	X	XXXX	X	X	XXXX	XX	X	XX		X	XX	X	XXXX	XX	XXXXX	XX	X	XXX	X	XXXXX	X	XXXXX	
ENR	X	X	X	X	XX	X	X	XX	XX	X		X	XX	X	X	XX	XXX		XX	X	XXXX	XXX	X	XXX	X	X	XXXXXXX	X	XX	XXXXXX	
EPF	XXXXX	X		X	XXX	XXXXX	XXX	XX	X	X	X	X	XXX	X	XX	X	X	X	XXX	XXX	XX	X	XXX	XXX	XX	X	XX	XX	XXXXXX		
EPLA	XX	X		X	X	X	X		X	X		X			X	X	X		X	X	XX	XXX	X				X	X	XXXX		
EPRU	X	X		X		X			X							X		X				X	X					X	X	X	
ERC		X		X				X	X												X	X	X							X	
ERK				X					X												X	X	X				X	X	XX	X	
EROO	XX	X		X	X	X		X	X	X		X				X	X		X		X		XXX	X				XX	X	X	
ERUA	X	X		X	X	X	X	X	X	X		X									X	X	XX					X	X	X	
ESCF		XX		X	X			X	X		X							X	X		X	X	X				X	X	X	X	
ESD				X					X												X	X			XX		X	X	X	X	
ESEL	X	X		X	X	X		X	X																					X	
ESY						X		X	X					X	X					X		X	X	X		X				XXX	
ETA				X	X	X	X		X	X			X	X	X							X	X	X	X			X		X	
ETOR	XX	X		X	X	X	X		X	X	X		X				X	X		X	X	X	XX	X			XXXX	XXXX			
EVAL	X			X	X	X	X		X								X			X	X	XX	XXX	X			X	X	XXXX		
EVIA	X	X		X	X	X			X	XX							X	X			X	X	XXX	X			X	X	XXX		
EYL								XX	XX		XX	X		XX	XX	XX	XX	X				XX	XX	X	XXXXX	XX	XX	X	XXXXXX		
EZAM				X	X				X	X												X	XX				X		X	X	
EZN								XXX	XX	X	X		X	XXX		X		XXX		X	X	XX	XXX	X	XX	XX		X	X	X	
FAI		X		X	X			X	X						X				X	X	XX	X	XXX			X				XXX	
FBA	XX	XXXXXX		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	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
FDF	XX	X	X	X	X	X		X	X	X		X			X		X	X	X	X	X	XX		X			X	XX	XXXX	X	
FEL	X	X		X	XXX	X	X		X	X	X	X	XX	XX	X	XXX	X	XX	XX	X	X	XX	XX	X	XX		XX		XXXX		
FFC	XXXX	XXXX	XXXXXXXX	X	X	XXXX	XXXXXXXX	X	XXXXXXXXXXXX	XXX	XX	XX	XXXXXXXXXXXX	XXX	XX	XX	XXXXXXXXXXXX	XXX	X	X	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
FHC	X		X	XXX	X		XXX	X			X	X	X			X	XX	X		X	XX	X	X	X		X	X	X	XX		
FIG	X		X	X	X	X	X		X								X	XXX				X				X		X	XX		
FIN	X	X	X	X	X	XX	X	X	X	XX	X	X		XX	XX	X	XX	XX		X	XXXX	XX	X	XXX	X	X	XXXX	X	XXXXXX		
FIR	XX		X	X	XXX	X	X	X	X	X		X	XX	X			X	XX	XX	X	XX	XX	XX	X	X	X	X	X	XXXX		
FLN	XXXX	X	X	XXX	X	XXXX	XXX	XXXX	X	XXXX	X	XX	X	X	XX	XXXX	XXXX	XX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	X	XXX	X	XXXXXX	X	
FMW				X				X	X							X					X	X		XXX		X	X	XX	X		
FNA	XXXX	X	XX	X	X	XXXX	XXXX	X	XX	XXXX	XXXX	XX	X	XX	XX	XX	X	X	XX	X	X	XX	XX	X	X	X	X	X	XXX	X	
FORR	X	X	X	XXXX	X	XXXXXX	XX	X	X	XXX	XX	XX	X	XX	X	X	X	XX	XXX	XXX	X	X	XX	XX	X	X	XXX	X	XXX	XXX	XXX
FRB	XXXX	XXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	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
FRF	X	X	X	X	XXX	XXX	X	XX	XX	X	XX	XX	X	XX	XX	X	X	XX	XX	X	XX	XX	XX	XX	X	X	X	X	XXXXXX		
FRI	XX	X	X	XXX	XXX	X	X	XXX	XX		XX	XXX	X	X	X	XX	X	XXX	XX	X	XX	XX	X	XX	X	X	X	X	X	XX	X
FUO				X	X				X													X	XX	X					XX		
FUR	X			X	XX	XX		X	XX	X					X				X	X	X	X	X	X		X	X	X	XXXX	X	
FVI	X		XXX	XXX	XXX	X	X	X	X	X	X	X	X	XX	X		X	X	X	X	X	X	XX	X	X	X	X	X	XXXX		
FVM	XXX		X	XXX	X	X	XXX	XXX	X	XX	X				X	X	X	X	XXXX	XX	X	XXX	XXX	X	X	X	X	X	XXXX	X	
FYU									X						X	XX					X	XX	X				X		X	XX	
GAC		X		X	XXX	X	XX	XXX	XX	X	X		XX	XX	X	X	XX														
GAR		X	X	X	XXXXXXXX	X	XXXXXX	XX		X	XXX	XX	X									XX	XXX	XXXXXX	XXXXXX	X	X	XXXXXXXX			
GAZ								X	X	XXXXXX	X	X	XXXXXX	X	XXXXXX	XX				X	X	X	XX	XX	X	X	X	XX	XX	XX	XX
GBA	XXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
GBTN	X			X	X	X	X		X												X		XX	XXX	X	XXX	X			XX	
GBZT	X	X	X	XX		XX		XX	X			X	X	XX					X		X	XX	XX	XX	XX	XX	XX	XX	XX	XXX	X
GCC	X			X	XX	X	X	X	XX			X		X	X	X		X	XX		X	X	X	X							
GCM	X			X	X				X				X								X		XXX			X					
GDH	XX	X	X	X	XXX	X	X	XXX	X	X			X	X	X	X	XXX					X	X	X	X	X	X	XXX	X	XX	
GGP	XX	X	X	X	X	X	X	XX	XX																						
GHO	XX	XX	XX	XXXXX	X	XXX	XX	X	X	XX	X	X	XXX	X	XXX	XX	XXXXX	X	X	XX	X	XXXXX	XX	X	XX	X	XX	X	XXXX	XXXX	
GIB		X	X	X	X	X		X	X	XXX	X	XX				X	XX				X	XXXX	X	X	XXX		X	X	X	XX	
GIBL		X							X	X	X	X		X	XX	XX					X	X	X	X		X	X	XX	XX	XX	
GKN	XXXX		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
GLA	XX	X		X	X	XXXX	X	X	X	X	X	XXXX	XX	X	X	X	X		X	XXX	X	XXXX	X	XX	XX	X	XX	X	XX	XX	
GLB	X	XX	X	XX	X	XXX	X	X	X	X	X	X	X	XX	XX	XX	XX		X	X	XXXXXX	XX	X	XX	X	X	X	XX	XXXX		
GLD	XX			X	XXXX	X	X	X					XX	X	X				X	XX	X	XXX	XXX	X		XX	X	X	XXXX		
GLI	XX	XX	X	XXX	X	XXX	X	X	X	XX	X	X	X	XXX	XX	X	XX	XX		XX	X	XXXXXX	XX	X	XX	X	X	X	XXXX		
GLK				X					X												X	X				X	X	X	X		
GLM	X	X	X	XXXXX	X	X	X		X	X	XX		X	X	X	XX	X		X	X	XXXXXX	XX	XX	X		X	X		X	XXX	
GMTN	X			X	X	X			X																					XX	
GMW	X			X	X	X	X	X	X				XX	X	XX		X	X	X				XXX	X		XX	XXX		X	X	
GOL	XXX			X	X	XXX	X	X	XXX	XXX	X		X	XXX	XXXXXX	XXXXXX	X	X	XXXX	X	XXXX	X	XXX	XX	XXX	X	XX	X	XXXX	XXXX	
GPA								XX	XX	X							X					XX							X	X	
GRC														X	X			XX	X			X							X		
GRF	XX	X	X	XX	XXX	X	XXXX	X	XX	XXX		XX	XX	XXX	XX	XX	XX	X	XX	XX	X	XXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
GRG	XXXX		XXXX	XXX	XXXX	XXXX	X	X	XX	XXXX		XX	XXXX	XX	X	X	XX	X		XX	XX	X	X	XX	X	X	XX	X	XXXX	XX	
GRI																															

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	
GUA	XXX	X X	XX X	XXX	X	XX X	XX	X	XXX				XX	XX	X			XX	XX X	X	XX	XXX	XX	X	X	X	XXXXXX	X	XXX		
GUAN			X X	X XX			XX																								
GUD	XX X		X X X	X		X		X	XX X	X						X	X			X	X	XXX X				X	XXXX	XXXX			
GUN	XXXX		XX																			XXXXXXXX				XXXXXXXXXXXXXXXXXXXXXXXXXXXX					
GW	X		X	XXX	X		X	X	X				XX	X	X					X	X	X	X	X							
GYA	XX X	X XX	X X	XXX X	X		XX XX	X XX	X XXX	XXXX	X X	XX	XXX	XX	XX	XX			X	X	XXX X	XXXX			XXXXXXXXXX	X	XXXXXXXX				
GZH	X	X	X	X X	X		XX X	X		X	X	X	X	X	X				XX	XX X	X	XX	XX X	X	XX	X X	X	X	X	X	
HAU	XXXXX	X	X	XXX X	XXXX	X	XXXX	X		XXXX	XXX	XX	XXX	XXX	XXX	XXX			XXXXXX	X	XX	X	XXXXXX	XXXXXXXXXXXXXXXXXX	X	XXXXXXXXXX					
HB	X		X X X	X			X	X													X	X	X	X		X					
HBZ		X X	X XXX		X		X	X	XX	X			XX	X					XX	X X	XXX		X			X XX					
HCY	X	X	XXX	X		XXX	X	X	X	XX	XXXX	X	X	X	X	X			X	XX	X	XX		X	X	X	XX				
HDA	X	X	XX	XXXXX	XXX	XX	X	X	X	X	XX		X	X	X	XX	X		X	X	XXXXXX	X	XX	X	X	X			X	XXXX	
HDW			X				X																								
HFS	XX	XXXXXX	XXXXXXXXXX	XXXX	XX																	XXXXXXXX			XXXXXXXXXX	XXXXXXXXXX					
HHC	X	XX	X XX	XX	XXXXX	X	XXX	X	X	XX	XXXX	X	X	X	XXXXXX	XXX			XXXXXX		X	XXXX	XXXX	X	XXXX	XXX					
HIA	X		X	X	X		X																								
HIN		X	X				X		X	X					X	XX	X														
HKC	X	X	X	X	X	X	X	X	X	XX			X	X					XX	XX	X	X	X	XXX	X	X	XX			X	X
HLW		X		X	X	XX	XX	X	XX	X		X			XX	X	X		X	X		X	XX	X	X	XX				XXXX	
HMT		X	X				X		X	X					XX	X					X	XX	X			X	X			X	XX
HNR	X	XX	X	XXXXXXXXXXXX	XX	XX	XXX	XXXXXX	XXXXXX	XXX	XX	XXXXXX	XXXXXX	XXXX					XX	XXXX	XXXX	XX	XX	XXX	X	XX	X	XXXXXX	XX	XXX	
HOBC			X	X	X																		XXX	X	X					X	
HOF	X			X	X		X						XX	X					XX		X	X	X	X	X	X	X	X	X	X	X
HOM		XXXXX	X	X	X	XXX	XX	X	X	X	X		XX	X	XX	X	X		XX	XX	X	XX		X		X		X	XXX	X	
HOJ	X	XX	X	XXXX	XX	XXXX	X	X	XX	X		XXX	XX		XX				XX	X	X	XXX		XX	XXXX	X	X	XX	XXXX		
HOOC			X	X	X																		XXX	X	X	X				X	
HOR					X		XX	X	XXX																						
HOL		XX		XX	X		X	X	XXX	X			X	X								X				X	X			X	
HRI	X	X		XX	X								X	X	X				XX	X		X	X	XX	X	X	X	X	X	X	X
HRT							XXX	X	X	XXXX	XXX	XX	XXX	X	X	XX	X		X	XXX	X	XX	XXXXXXXXXX	XXXXXXXXXX	XX	XX	X	X	XXX	XXX	
HTW			X				X	X							X	X					X										
HUA		X	X	XX	XXXXXX	XXX	X	X	XXXX	XX	X																				
HUR	XX	X	X	XXXXX	XXX		X	X	XX	X	XX			X	X	XX	X			X	X	XXXX	XX	X	X	X	X	X	XXXXXX		
HVAR			XXXX	XXXXX	X	X	X	X	XX	XXXX	XX	X	X	X	X	X	X		X	X	X	XX	XX	X	X	X	X	X	XXXXXX		
HYA		X	XX	X	X	X		X	X	X				XX	X	X						X	XXX	X	X	XX			X	X	
HYB	XXXXX	XXX	X	XXXXXX	XX	XXXX	XXXXXX	X	XXXXXX	XX	XXXX	XX	XXXX	XX	XX	XX	XX		XXXX	XXXX	XX	XX	X	XXXXXX	XX	XXXXXX	X	XXXXXX	XX	XXXX	
IAS	X																												X	XXX	
IFR	XXX		XXXX	XXXXXX	X	X	XX	X	X	X	XXXX	X		X	XXXX				X	XXX	X	XX	X	XXXXXX	XX	XXXX	X	X	XXXXXX		
IGT		X		XX	X	X	XX	X		X		XXX	X	X	XX	X	X		XX			XX	XX	X	X	X	X	X	XXX	X	
IHA			X	X	X		X						X	XX																	
IIA							X	X	X						X	X	X		X	X	X	XXXX	XX	X	XXX	XX	X	X		X	
IIDJ		X		XX	X	X	XX				X		X	X	X	X	X		X	X		X	XXXX			XX	X		XX		
III	XXXXX		XXXXX	XXXXX	X	XXXX	X	X		XX	X	XX	XX	X	X	XXX	X		X	X	XXXXXX	XXXXX	XXXX	XXXXXX	XXX	X	XXXXX	X			
IISM	XXXXXX		XXXXX	XXXXXX	X	X	X	XX		XXX	X	XX	XXX	X	X	XXXX	X		X	X	XXX	XXXX	XXXXXX	XXX	XXXX	XX	X	X	X	X	
IIT	XXXXX		XXX	X	XXXXX	X		X	X			X	X	X	X	X	XXX	X		X	X	XXXX	XXXX	XXXXXX	XXX	X	X	X	X	X	
IKZ																															
IMA	XXXX	XXX		XXXXXXXXXX	X	X	XXXXX	XXXXX		XXX	X	XX	XXX	XXXXXX	XX				XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXX	XXXXXXXXXXXX	X	XXXXXXXX	X	XXXXXXXXXX					
IMI	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X										
INK	XXXX			XX															XXXXXXXXXX		XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX					
IPM	XXXX	X		XXX	XX	X	X	XX	X	X	XX	XX	X	X	X	X	X		XXXX	XX	X			XX	XX	XX	XX	XX	XXXX	XX	
IRK	X	X	X	X	XXXXX	X	XX	X	X	XXX	X	X	X	X	XX	XX			XXXX	XXXX	X			XXXXX	X	XX					
ISA	XX	X		X	XXXXX	X	X	X	X	XXXXXX	XX	X	X	X	X	X			X	XXX	XX	XX	XXX	X	XX	X	X	X	XXXX		
ISK							XX	X	X	XXX	XX	X	XX	X	X				X	XXXXX	X	XXX	XX	XXX	X	X	X	XXX	X		
ISR		X																	X	X	XX	X	X	X		X	XXX	X			
ISSF		XX		X	XX				X	X	X								X	X	X	X	X			X	X	X	X		
ITU				X			X												XX	X	X	X	X							XXX	
IUA		X		XXX	X	XXX	X	X	X	XX	XXXX	X	XXX	X	X	X	X		X	XX	X	XX	X	X	X	X	XX	X	X	X	
IZI							XXXXXX		XXXXXX	XXXXX	XXX	XXXX							X	XX	XX	XXXXXXXXXX	XXXXXXXXXX	XX	XX	X	XXXXXX				
I2M							XXXXXXXXXX	X	XXX	XXX	XX	XX							XX	XX	XX	XXXXXX	XXXX	X	XX	XX	XX	XX	XX	XX	
JACH	XXX		X	XXX	X	X	XXX	X	XXXX		X	X	X						X	X	XXX	X	X	X	X	X	X	X			
JARJ				X	X	XX		X	X					X	X					X	X					X				XXX	
JAU		XX		X	X														X	X		XX	X			X	X	X	X		
JMB			X			X	X	X	X					X	X							XX	XXXX							XXX	
JNW	X						XXX	X	X					X	X																
JSC				X	XXXXX		X	XX	XX				X	X		X	X														
JVI				XX	X	X		XX																							
KAF	XX	X	XXXX	XX	XXX	X	X	X	XXXXXX	XX		XXX	XXX	X	X	XXXX	X	XXX	XXXXXX	XX	X	XXX	XX	XXXX	XXXX	XXXXXXXXXXXX	XXXXXXXXXX				
KAGJ				X	X		X																								
KAKJ	X	X		X	X	X	X	XX	X		X	XXXX		XX		X			X	XX	X	X	X	XXXX	X	X	X	X	XX		
KAS		X				X		X	X	X									X	X	X									XXXXXX	
KBA	XX	X			XXX	XXXX	X	X	XXXXX	X	X	XXX	X	XX	XX	XXXXX	XXX		XX	XXX	XX	X	XXX	XXX	XXXXXXXXXX	XXXXXX	XXXXXX				
KBS		X		X																										XXXX	
KCT								XXXX				XXX	XX	XXXXXX	X	X	X		XX	XX	X	XXXX	X	XXXX	XX	XX	X	XXXXXX			
KDZ	XX	XX	X				XXXX	XXX	X	X			X	X	XX	X														XXX	
KEK			XXX	XX	X	X	XX	XX	X	XX		X	X	XX	X	X	X														
KER				XX	X	X																									
KEV	XX	X	XXX	X	XXX	X	XX	XXXX	X		XXX	XXXXX	X	XXXXXX	XX				XXXXXX					XX	XX	X	XXXXXXXXXXXX	XXXX			
KFNJ																															

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	
KHC	XXXXXXX	XXXX						XXXXX	X	X	XXXX	XX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXX	X	XXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXX
KHL								XXXXX	X	X	XXXX	XX	XXXXXXXXXX	X	X	XXXX	X	X	XXXX	X	X	XXXX	X	X	XXXX	X	X	XXXX	X	X	XXXX
KHT	XXXXXXXX		XXXXXXXXXX				X	XX	X	X		XXX	XX	X	XXX	X		XXXXX	X	X	X	XXXXXX	X	X	XXXX	X	X	XXXX	X	X	XXXX
KHZ	X	X	X	XXX	X	X		X	X		XX		X	X	X	XX	XX	XXX	XXXX	X	X	XX	XX	X	X	X	X	X	X	X	X
KIC	XXX	XXXX	XXXXXXXXXXXXXXXXXXXX				X	X	XXXX	XXX	XX	X	XXXXX	X	X	XXXXXX	XXXXXX	XXXXXX	XXXX	X	XXXXXX	X	X	XXXXXX	X	X	XXXXXX	X	X	XXXXXX	
KIW	X	X		XX	XX			X	X								X	XX	XX												
KKB												XXX	XX	X																	
KKM	X			X	XX		X		X		X	X																			
KKN	XXXX		XXXXXXXXXXXXXXXXXXXX																												
KLB	X	X		X	XX	X	XX	XXX	XXX	X	XXX	XX	X	X	XX	X	XX	X	XXX	X	X	X	X	XX							
KLU	X		X	XX	XX		X	XX	XXXX	X	X	XXX	XXX	XXXX	XXX	XXXX	XXX	XXXXXX	XXXXXXXXXX	XXX	XX	XX		X	XXXXXX	XX	XXXXXX	XX	XXXXXX	XX	
KMI	XXXX	X	X	X	XXX	X	X	XX	XXXX	XXX	X	XX	XXX	X	X	X	XXX	XXX	XX	XX	XX	XX	XX	XXX	XXXXXX	XX	XX	X	XX	X	
KMR	X			X	X	X					X		X	X	X																
KMSA								X			X	X																			
KMY		XX	X	X	X	X			X	X		X		XX	X																
KWZ		X	X	X	XX	X	X		X	X	X	X	XX		X	XX															
KNA	XXXXXX	XXX	X	XXXXXXXXXX	X	XX	XXXXXXXX	X	XX	X	X	XX	XXXX	X	XXX	X	X	XXXXXX	XX	XXXXXX	XXX	X	XX	X	X	XX	XX	X	XXXX	XXXXXXXX	
KNIM	XX	XXXX	XXX	X	X	XXX	XX	X	X	X	X	X	XX	XX	XXXX	XX	X														
KNK	XX	XXXX	XXXX	X	XX	XX	X	X	X	X	X	XXX	XX	XX	XXXX	XX	X														
KNT	XXXX	XXXX	XXX	XXXX	XXXX																										
KOD	XXX	XXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXX	XX	XX	XX	XXX	XXX	XX	XX	XXX	XX	XX	XXX	XX	X	X	XXX	XXX	XXXXXX	XXXX	X	XX	XX	XXXXXX	XX	XXXXXX	XX	
KOSW			X																												
KOT		X		X				XX	X						X	X	X														
KRA	XX	X	X	XXXX	X	X	X	X	XX	XX	XX	XX	XX																		
KRI		X																													
KSH	X			X	X	X	X	X	X	X					X	X	X														
KSP	XX	X	XXX	X	XXXX	XXX	X	XX	X	XX	X	XXXXXX	X	XXXX	XX	XX	XX	XXXXXX	XX	XX	XXXX	XXXXXXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
KT1	X		XX	X	XXX	X	X	XX	XX	X	XX																				
KUMJ				X	X	X	X																								
KUPT	X			X	X			XX	X	X	XX	X																			
KUSJ	X	XX	X	XXX	XX	XXXX	X	X	XX	XX	X		XXX	XXXX	XX	X	XX	X	X	XXX	XX	XXXX	XX	XXXX	X	X	XX	XXXX	XXXX	XXXX	
KVN	XX			X	X	X	XXX	X	X		XXX	XX	X																		
KVT								X	X		X	XX		XX	X	X															
KZN		X		XX	XXXX	XX	X	XX	XXX	X	XX	X	X	XX	X	XX															
LACI																															
LAT				XXXX	XX		X	X	XX	XXX	XXXXXXXXXXXX	X	XXXXXXXXXXXX	XXXXXXXXXX	X																
LBF	XXXX	X		XX	X	X	XXX	X	XXX	X																					
LBFM	X			X	X	XXX	X	X	XXX	XX																					
LBL		X						X																							
LCCH	XX			XX	XXXX	X		XXXX	XXXX	X	XX	XX	X	XX																	
LCI				XX	XX		XX	X	X	XX	X																				
LDF	XXXX	X		X	XXX	X	XXXXXXXX	XXXX	X		XXXX	X	XX	X	X	XX	XXXXXX	XXX	X												
LDN				X	X	X																									
LFF	XX	XX	X	X	XXX	X	XX	X	XX	X	XX		XXX	X	XX	X	X	XXX	X	XXX	XXX	XX	X	X	XXX	XXXX	XXXX	XXXX	XXXX	XXXX	
LHE		XX		X																											
LHS																															
LIC	XX	X	XX	XXXXXXXX	XXXX	XXXXXXXXXX	X	X		XXXXXX	XXXXXX	X	XXXX	X	X	XX	XXXXXX	X	X	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
LIJA	X			X	X	X																									
LIS	X			X	X	X																									
LISJ				X	X			X	X																						
LIT	XXXX	X	XX	X	XXXX	XX	X	XX	X		XXX	XX	X	XX	X	XX	X														
LJU				XXX	XXXX	XX	XXX	XXX	XXXX	X	X		XXXX																		
LKO	X		XX	X	XXXXXXXXXXXXXXXXXXXX	X																									
LLA	XX	X		X	XXX	X	X	X	X		X	XX	X																		
LLAV				X	X	XXXX	X																								
LLS	X		X	X	XXX	X		X	X	X																					
LMR	X	X	X	X	XXX	XX		X	XX	X	X		XX	XXXX	X		XX	X	X												
LMW				X																											
LNJ	XXX			XX	XXXXXX	X	X	XXX	X	XXX	X																				
LOE		X	X	X	X	XXX	X	XX	X	X	X		XXX	X																	
LOF	X		XX				X	X																							
LOMF	X			X	XXX			X	X	X																					
LON	X			XX	X	X	X	X																							
LOR	XXXX	X		XXX	XXX	X	XXXXXX	X	XXXX	X																					
LPA				X	X	X																									
LPB	XXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
LPF	XXXX	X	X	X	XXX	X	XXXX	X	X	XXXX	X	XX	XXXX	XX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
LPJ	X	X		XXX	XXX	XXXX	X	X	XXXX	X																					
LPL	X	X	X	XXX	XXX	XXXX	XX	X	XX	XXXX	XXXX	X	XX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
LPO	XX	XX	X	X	XXX	XX	XXX	X	X	XXX	XXXX	X	XX	X	X	XXXX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
LPR	X	X		XXX	X	X	XX	X																							
LRG	X	X	X	X	XXX	XX		X	XX	X	X		XX	XXXX	X	X	XX	X	X	XX	XX	X	XX	X	X	X	X	X	X	X	
LRM	XXXX	XXX	XX	XXXX	X	X	XXXX	XX	X	X																					
LRS				X	X		X	XXXX	X																						
LSA	X	XX	XX	X	XXXXXX	X	XX	X	X	XX	X	XXXX	X	X	X	X	XXXX	X	X	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
LSD	X	X	X	X	XXX	X	X																								
LSF	XX	XX	X	X	XXX	X	X	X	XX	X	X		XXXX	X	XX	X	XX	XXX	XXX	X	XXX	XXX	XX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
LSK																															
LSZ	X	X	XXX	X	X	XX	X	X	XX																						

[illegible]

[illegible]

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30					
PPI					XXX					XXX																		XXX	XX	X					
PPM	XXXXXX	XXXXX	XXXXXXX	XXXXX		XXXXX		XXX	X	XXXXXXXXX	X	X	XXX	X			X	X	X				XXXX	XXXXXXXX	XXX	XXXXX	XX	X	XXX	X					
PPN	XX	X		X	XXX	X	X		X	X			X	X	X	X		XX	X								X			X					
PPT	XX	X		X	XXX	X	X		X	X			X	X	X	X		XX	X																
PR1	XX	X		X	XXXXX	X	X		XXX	X	X		X	X	X	X		X	XXX		X	X	XXX	X	XX	X	X		X	XX	X				
PRK	X					XX	X		XXX	X								X												XXX					
PRM	X			X	X	X	X		XX	X								X				X	XXX	X	X		X			XX	X				
PRNI		X		X	XXXXXXXXXX		XX	XX	X									XXX	X	X		X	X	X	X	X		XX		XX	X				
PRS	XX	X		X	X	XXX	X	X	X		X	XXX	XX		X	X	X	X	X	X		X	XXX	X	X	X	XX	X	X	X	XX				
PRU	XX	XX	X	XXX				XXXXX	X	X	XXXX	X	XXX	XXX	XX		XXXXXX	XX	XXXXXX	X	XXXXXXXXXXXXXXXXXXXXXX					XXXXXXX		X	XXXXXXXXXX						
PRY	X			X	XXX	X		X	XXXX					X		X	XXX																		
PS1		X	X		XXX	XX				XXXX		XXX	XX	XX	X	X	XX	XXXX	X					XX	XX	XXX	X	XXX	XXX	XX		XXX			
PSN	XX		X					X						X				X												XXX		X			
PSO	X			X	X	X	X			X	XX	X	X						X				XXX	X	X			X		XX					
PSZ	XX		X		X	XX	X	X		X	X			X	X	X	X		X	X	X	X	X	X		XXX	X	X	X	XXXXX					
PT10				X	XXXXXXXXXX	X	X	XXX		X				X			XX							X	X	XX	X		X		X				
PT1				X	X	X			X																										
PTJ	XXX		X	XXX	XXX	XXXX	XXX	X	X	X	X		X	XX	X	X	X	XX	XX	X	XXX	X	XXX	XXXX	X	XXX	X	XXX		XXXXXX					
PTO	X	X		X	X	X	X		X				X																	XX					
PTT	X			X				X		X				X															X	XXX		X			
PTZ	X	X	XXX	X	X	XX	X	X	X	X	X	X	X	X	X	XXX	XX		X																
PURC					X	X	X												XX	XXXX	X	X	XX		XX	X	X	XX		X	X	XXX	X		
PUZ	X		X	X	X	XXX	X	X	XX	XX	X	X		XXXX	X		XX	X					XXX							X					
PV09	X													X	XX		X	X					XX	X	X	XX		X		X	X	X			
PVC	X	X			XX	XX	X	X	X	X		X		X	XX		XX	X	XXX	XX	XX	XX	X	XX	X	X		X	X	XX	X	X			
PVL	XX		X					XXX	X	X		X					X	X												XXXX		XXXX	X		
PVY		X			XXX	XX		XXX	X	X	X	XX	XXXX	X	XXX	X		X	X	X	X	X	XX		X	X		X	XX		X	X	X		
PWA	XX	XXXXX	XXXXX	X	XXX	X	X	X	X	XX	X	X	XX	X	XX		XX	X	XX	X	XX	XX	XXXX	X	XXX	X	XXX	X	XXX		XXXXXX				
PYM		X	X		X				X						X	X	X											X		XXX					
PZZ	X	X	X	X	X	XXX	X	X		X	XX	XX	X		X	XX		X	X	XXX	XX							X	XXX						
QCP	X			X	X	X	X		X	XXXX				X	X	X		X	XX	XX	X		XX	XX	X	X	X	X	X	X	X	X	X		
Q1S	XXXXXX	XXXX	X	XXXXXXXXXX		X	XX	XXXX	XXXX	XXXX	XX	X	XXXXX	X	XXXXXX	X	XXXXXX		XXX	X	XX	XX	XXXXXXXXXX	XXXXX	XX	XXXXXXXXXX	XX	XXXXXXXXXX		XXXXXX					
Q1Z	X	X	X		X	XXX	X	X	XX	X	X		X	X	X	X		X	XX	XX	X	XX	XX	X	XXXX	XXX	X	XXXXXX		XXXXXX					
Q1P	X	X			X	X	XX	XXX		XX	X	X		X	X															XX	XX				
Q1O				X	X	X	X	X		X				X									X	XXX	X		X								
Q1R	XXXX	XX	XXX	XXXXXX	XX	XXX	XXXX	XX		XXXX	XX	XX	X	XXX	XXX	XXX	XXX	XXXXXX	XXXX	X	XXXX	XX	XX	XXXX	XXXX	XX	XXXXXX	XX	XXXXXX		XXXX				
Q1L		X			X	X			X					X					X	X										XXX					
Q1R		XX	X	X		X			XX	X	XX			X	X								X	XXX	X	XXX	X		X		XX				
Q1H	X		X		X	X	X	X	X	XX	X	X	X		X	XX		X	XX	X	X		X	XX		X	XX	X	X	XXX	X				
RAB	XXX		X	XX	X	XX		XX	XX	X			X	XX	X	X	X	XX	XXXXXX	XXX	X								XXXXXX	XXX					
RAGM								X			X								X		XX		X	X		X	X			X	XX				
RAR	X					X													X											X					
RDN	XX	XXXXX	XXX	X	X	XXX	XX	X	X	X	XX	X	X	XXX	X	XX		X	XXXXX	X	X							XX	XXXXXX		XXXXXX				
RDO	X			XX	X		XX	X	X	X	X								X											XXX					
RDP				X																										XXX					
RDS	X		X	XX		XXXX		XXX	X				X	X					X	X	XXXXXX	X		XX	X		X			X	XXXX				
RDT	XX	XXXXX	XXXXX	X	XXX	XX		X	X	X	XX	X	X	XXX	X	XXX		XX	XXXXXX	XX	X							XX	XXXXXX		XXXXXX				
RDW	XX	XXXXX	X	X	X	XXX	XX		X	X	X	X	X	XX	X	XX		X	XXXXX	XX	X							XX	XXXX		XXXX				
RED	X	XXXXX	X	X	X	X	XXX	XX		X	X	X	X	XXX	X	XX		X	XXXXX	X	X							XX	XXXXXX		XXXXXX				
REF	XX	XXXXX	XXX	X	X	XXX	XX		X	X	X	XX	X	XXX	X	XX		X	XXXXX	X	X														
REFV																																			
RF1																																			
RGS																																			
R1Y																																			
RJF	XX	XX	X		X	XXX	X	XXX	XX	XXX	XX	XXXX	XX	XXX	X	XX		XX	XXXXX	XX	XX	XXX	XXX	XX	X	XX	XX	XXXXXX		XXXXXX					
RKG	X	X				X	XX		X					X	X	X		X	XXX	X	X	X						X	XXX		X	XXXX			
RKT						X	X	X	X	X				X																					
RMT	X																																		
RMP																																			
RMO	X	X	XXX	XXX	X	X	XXX	XXXX	X	XX	X	X	X	XX	XXX	X	X	XXXX	XXX	XX	XX	X	XX	XXX	XX	XX	X								
RMW																																			
RND	XX	XX			XXXX	X	X	X	X	X	XX	X	X	XX	X	X		X	XXX		X	X													
ROB	X	X	X		X	X	XX	X	X	X	XX	X	X		X	XX		X	XXXXX	XXX	X	XXX	X	X	X	XXXXXX	X	X	XXXXXX		XXXXXX				
ROCH	XX				XX	XXX	XX	X	X	XXXXX	XXXX	XX	XX		X	X																			
RRL	X	X	X		X	XXX	X	X	XX	X	X			X	X	XX	XX		X	XXXXX	XXX	XX	XX	X	X	XXXXXX	X	X	XXXXXX		XXXXXX				
RS2	XX	XXXXX	X	X	X	XXX	XX	X	X	X	XX	X	X	XXX	X	XX		X	XXXXX	X	X							XX	XXXX		XXXX				
RSCP	XX				X	XXX	X	X	XXX	X	XX			XXX	X																				
RSL	X	X	X		X			XX		XX	X			X	X	X																			
RSM																																			
RSNY	XX		X		X	X	X		X	X	X			X																					
RSO	XX	XXXXX	XXXXXXXX	XXXXXXXX	X	X	X	XXXX	X	XXX	X	XX	XX	XXXXX	X	X		XX	XX	X	XXXXX	XX	XXX	XX	XXX		XX	X	XX	XX	XXXX				
RSP	X	X	X		X	XXX	X	X	XX	X	X			X	X	X		XX	XXXX	XXX	XX	XX	X	X	X	XXXXXXXX	X		XXXXXX		XXXXXX				
RSSD	XXXX	X		X	XXXXX	X	X	XXX	X	X			XXX	X	X	X	XXXXXX	XX	XX	XXXX	XXXX	X	XX	XXX	XXX	XXXXXX									
RTBS	XXX	X	XXX	XX	XXX	XXXXXXXXXX	XXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX													

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
RVC								X	X						X	X				X	X			XXX		X	X	XX	X	
RVR	XX	X		X	X	XXXXX	X		X			X	X	XX					X	XX		X	X		X	X			XX	X
RVW			X						X											X		X								
RYD				XX		X		X		X		XX			X	X	X		XX	X		X	X			XX	X	X	XXX	
RZN	XX	XX	X	X	XXX	XXXX	XXX	X			XXX		XX	XX	X	X			XX	X			XXX			XXXX	X	XXXX	X	
SAL	X			X	X	X				X									X	X		X	X		X	X	X	X	XXX	
SALJ					X	XX		XX	X					X	X				X	X		X					X		X	X
SAN	XX			X	XXX	XXX	X	X	XXX	X	XXX	X			X				XX	X	XX	XXX	X	XXXX	X	X	X			XX
SAO	XX			X	X	XXX	X	X			XX	X		X	X	X			X	X	X		X	X	X		X	X	X	X
SAOF				X	X	X				X		X	X	X		X				X		XX		XX		X	X	X		X
SBA	X	X	X	XXX	X	X	XXXXX	X	X	X	XX	X		X	X		X	XXX	XXXX	X	X		XX	X	XXX	X	XX	X	X	X
SBB	XX	XX		X	X	XXXXXXX	X	X	X	X	X	XXXXXXX	X	X	X	XX		X	XXXX	XX	X		XXX	X	XX	X	X	X	X	XX
SBF	X	X	X	X	X	XXX	XXX		X	XX	X		XXX	XXXX	X	X	X	X		X			XXX	X	XXXX	XXXX	X	X	XXXXXXX	
SCH	XX		X	X	XXXXX	XXX	XXXX	XXX	X		X	XX	XX	X	XX	XX	XX	X	XXXXX	XX		XXX	XXX	XXX	XXXXXXX	X	XXXXXXX			
SCM	X	X	X	XX	XX	XXX		X	X	XX	X	XXX	X	XXX	XX	X	XX	XX		X	X	XXXXXX	XX	X	XX	X	XX	X	XXXXXX	
SCX	XXXX	XX		X	XX	X	X	X	XXX	X	X	X	X	X	X	XXX			X	X	XX		XXXXXXX	XXX	X	X	X	X	X	XXX
SDG	XX	X	X	XXXXX	XXX		X	X	X	X	X	XX	XX	X	XX	XX			X	X	XXXXXX	XX	X	X	X	X	X	X	XXXX	
SDI	X		XXX	X	X	X	XXX	X	XX	X	XX	XXX	X	X	XXXXX	X	XXX		XX	X	X	XXX	XX	XXX	X	XXX	XXX	XXXXXX	X	XXXX
SDN	XX			X	X	X	X	XXX	XXX		X		X	X	XXX	X		XXX	X		XX	X	XXX	X		XX	XX	X	XX	X
SDV				X	X	XXXX	XXX	XX	X	XXXX	X	X	X	X		X			X				X	XX	XXX	X	X	X	XX	XXXX
SEG	X	X	XXX	X	XXX	X		X	X	X	XX	XX	X	XX	X	XXX	XX		XXXX	XXX	XX	X		XX	XXX	X	X	XX	X	
SES	XXXX	XXX	X	XXXXX	X	XXXXXXXXXXXXX	XX	XXXXXX	XXXXXXX	XXXXXX									XX	X	XXX	X	XXXX	XX	XX	XXXXXX	X	X	XXXXXX	
SEW	XX	XX	XX	XXX	X	XXXX	XX	X	X	XX	X	X	X	XXX	XX	XXXX	X	X	XX	X	XXXX	XX	X	XX	X	XX	X	XX	XXXXXX	
SFG			X	X	XX	X			X		XX	XX			X				XX				X	XX		X		X		
SFI	X		XXX	XXXXX	XX	XXXX	XXXXX	XX	X		XXX	XX	XXXX	X	X	X			X	XX	X	XX	X	XX	XX	XX	X	XX	XXXXXX	
SGAM		X	X				X	X	X		X		X	XX	X				X		XX		X	X	X	X	X	X	XX	
SGE	X		X		X	X		X	X		XX	X		X				X	X	X		XX	X		X	X	X	X	X	X
SGO		X	XXX	X		X	X	X	XX	X	X	X	X	XX	XXX	X			X	X	X						X			
SGS				X	X				X														X	X	X	XX	X	X	X	
SHI	X	X	X	XXXXXX	X	XXXX	XXXXXXXXX	XX	XX	XX	X	XXX	X		XX	X	X		X	X	X		X	XXXX	XX	XX	X	XX	X	XXXX
SHK	X			X		X	X	X	X				X	X	X				X	X	X		XX	X	X		X		X	X
SHL		XX										XX		XXX	XX	X			XX	X			XX	XXXX				XXX		
SHMJ				X	X	X		XX	X										X	X								X	X	
SHNJ	X			X	X		X	X		XX				X				X	X	X		X	X		X	X		X	X	
SHW			X	X	X	X		X				XX	X					X	X	X	X	X	X	XX		X	X	XX	X	
SILC			X	X	X																		XXX	X	X				X	
SIT	X		X	X	X	X		X	X			X	X	X	X	X	X	X	XX	X	X	X	X	X	X	X	X	X	X	X
SIV	XXXXXXXXXX	XXXX	XXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
SJG	X	X	XXX	X	X	XX	X		X		XX	X		X				X	X	XX		XX	XX	X	X	X	X	X	X	X
SKO	XXX	XX	XXXXXXXX	XXX	X	XX	XX	XX	XXXX	XXXX	XXXX	XXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
SKT	XX	XXXX	XXXXX	X	XX	XX	X	X	X	XX	X	XXX	X	XX	XX	XXXX	XX	X	XX	XXXX	XX		XX	X	XX	X	XX	X	XX	XXXX
SLA	X		XX	X	X	X	X	X	X	XX									XX			X	X	X	X	XXXX	XX	XX	XXXX	
SLE	X		X	XXX			X	X	X		X	X	X	X	X	X		XX		X	X	X	X	X	XXXX	XX	XX	XXXX		
SLKM	XX	XXXX	XXXXXX	XXXXXX	XXX	XXXXXX	X	X	X	XX	XX	XXXX	XXXX	XXXX	X	X	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
SLR		X	XXXX	XX	X	X	XXXX	XX		X	XXX	X	X	X	XXXX				XXXX	X	X	X	X	X	X	X	X	X	XXXX	
SMF	XXXX	X	X	XXX	X	XXXX	X	XX	XX	XXXX	XXXX	XX	X	XX	XXXX	XXXX			XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
SML							X							X					X	X	X		XX	X		XX	X	XX	XXXX	
SMY		XX	X	X	X		X	X				X	X					XX	X	X		X	XX	X		X		X	X	
SNA							XX	X				X	X		XX				X	X	XX							X	X	
SNF	XX	X		X	XXX	X	X	XX	X	X	X	XX	XX	X	XX	X	X	X	X	X	XX	XXXXXX	X	XX		X	XXX	X	XXX	XX
SNG	XXXX			XXXXX	X	X	XX	X	X	XXXX	X	X	X	XXX	X	X		XXX	XX	X		XX	XXXX	XX	XXX	X	XX	XXX	XXXX	XXXX
SNY	X	X	X		X	X	XX	X	XX	XX		XXX	XX	X	X	XX	XX	XXX	XXXX		X	X	XX	XXX		XXXXXX	X	X	XXX	X
SNZO				X	XX	X	X			XX			X	X				X	X	X					XX				XX	X
SOB1				X	X	X		X			X	XX	X	XX	X	XX	X	X	XX	X	X	X	X	X	X	X	X	X	X	XXXX
SOD	XX	X	XX	XXXXXXXX	XXXX	X	X	X	XXXX	XXX	XX	X	X	XXX	XX	XX	XX	XX	XXXX	XX	X	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
SOH	XXXX	XXXX	XXX	XXXX	XXX	X	XX	XXXX	XXXX	XXXXXXXXXXXX	XX	XXXX	XX	X	X				XX	XXX	XX		X	XXX	X	X	XXXX	XX		
SPA	X	X	X	X	X	XXXXXX	XXXXXX	XX	X	X	X	XX	XX	XX	XXXX	X	XX	XX	XXXX	XX	XXXX	XX	X	XXXX	XX	X	XXXX	XX	X	XXXX
SPC	XX	X	XX	X	XXXXXX	X	X	XXXX	X	XXXX	XXXX	XXXX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
SPU	XX	XXXX	XXXX	X	X	X	XX	X	X	XX	X	XXX	XXX	XX	XXXX	X	X	XX	X	XXXX	XX		XX	X		XX	X	XX	XXXX	
SQTA				X				X	X	X		XXX	X	X	X		X			X	XX	X	X	X	X	XX	X	XX	X	
SRE	X							X	XX									X	X		X		X					XX	X	
SRO				X	XXX	XXXX	XXX	XXXX	X	X	XXXX	X	XXX	XX	XXX	XXXX	XX	XX	X	XX	X	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
SRS	XXXX	XX	X	XXX	XX	XX	XXX	XXXXXX	X	XXX	X	XXXX	X					X	XX	XXX	XX		X	XX	X	X	XXXX			
SSB	X	X	X		X		XX	X	X		X	X	X						X	XX		X	X		X	X	X	X	X	
SSE	XXXX	XXXX	X	XXXXXXXXXX	X	XXXXXX	XXXX	XXXXXXXXXXXX	X	XX	XXXX	XX	XXXX	XX	XXXX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
SSF	XXXX	X	X	XXX	X	XXX	X	XXXX	XX	XXXX	XX	XX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
STH			X				X												X				XX				XX			
STK	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
STS	X	X		X	X	X		X	X	X												X	X	XX	X		X	X	X	X
STU	X			X	X	X		X	X					X								X				X			XXX	
STV	X	X	X	X	XX	X	X	X	XX	XX	X		XX	X	XXXXXX			XX	X	XXXX	XXX	X	XXX	X	X	XXXXXX	X	XX	XXXXXX	
SUA	XX	XXXX	XXXX	X	XXX	XX	X	X	XX	X	XXX	X	XXX	XX	XXXX	X	X	XX	X	XXXX	XX		XX	X	XX	X	X	XX	XXXX	
SUE		XX	XX	X	X	X		X	X	X			X					X				X		XX	X	XX	XX	XXX	X	
SVA	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
TACH	XXX			XX	XXXXX		X	X	XXX	X	XXXX	X	XX	X	X		X	X	XX	X	XX	X	XX	X	XXX		X	X		XX
TAU	X	XX				X	XX	X							X			XXX	X		X	X	XX	X		X	X	X	X	XX
TBH	X	X			X	X				X	X								X				X				X	X	X	X
TBI	X	X		X	X	X	X					X							X			X					X	X	X	X
TBM				X				X	X						X				X	X	X					X		X		X
TBR	X								X				X			X					X			X				X	X	X
TCE				X	X	X		X		X			X						X			X					X		X	XX
TCF	XX	XX	X		X	XX	X	X	X	XX	X	XX	XXXX	XX	XX	XX	XX	XX	XXXXXX	XX	X	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
TCW	X	X			XX		XX			X			X			X			XX	X	XX			X		X	XX			X
TDS	X	X		XXX	XXX		X	X	X	XXX	X	X	X	X	XX	X	X		X	XX	XX	X	XX	XX		XX	XX		X	X
TEH		XX		X		XX	X			X	X	X	X		X	XX		XXX	X		XXX		XX							XXX
TGL		X	X	XX	X		X		X	X		X		XX	X	XX	X		X	X	XX	X	X		X	X	X	X	XXXXXX	
THE	XXXX	XX	X	X	XXXX		XXX	XX	XX	XX	XX	XXXX	XX	XXX					X	XX	XX		X		X	XX	X		XXXX	
THY				X							X			X	XX						XX								X	X
THZ	X	X	X	X	XX		X		X	X	X	XXX	XX	X	XX	XXX		XX	XX	X	XX	XX	XX		X	X	X	X	X	XX
TIA	X	XX	XX		XXXXXX	X	X		X	X	XX		XXXX	XX	X	X	XXX	X	XXX	XX	X	X	XX	X	X	XXXX	X		XXXX	X
TIC	XX	X	XX		XXX	XXX	XXXX	XXXXXX	XXXX	X	X	XX	X	XXX	XX	X	XXX	X	XX	XXXX	X	X	XXX	XX	XXX	X	XXXX		XXXXXX	
TIO	XXX	XX	X	XXX	XXXXXX	XXX		XX	X	X	X	XX	XX	X	XX	XXXXXX	XXX	X	XXX	XXX	XXXX	X	XXXXXX	XXXX	X	X	XX	X	XXXXXX	XX
TIR																														
TIY	XXXX	XXXX		XXXXXX	X	X		XXX	X	XX	XX	X	XXXXXX	XX	X	X	XXXXXX	XXX	XXXXXX	XX	X	XXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	X	XXXXXX		XXXXXX
TKL	X			X																X	X	XXX	XX	XXX	X	X		X	XX	
TKSJ	X				X	X			XX	X					X				X	X	X		XX	X						X
TLB														X														X	XXX	X
TMW		X									X					X	X			X	XX	X						X	XX	
TNP	XX	XXX	X	X	X	XXXXXX	X	XXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XX	XXX	XX	XX	X	XXX	XX	X	XX	XXXX	X	XXXXXX	
TNR	XX		X			X				X				X					X											X
TNS	X																													
TOA	XX	XXXXX	XXXXXX	XXXXXX	XXXXXX	X	XXXXX	XXXXX	X	XX	X	XXXX	XXX	XXXXXX	XXXX	XXXXXX	XXXX	XXXXXX	XXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
TOL	XXXX	XX	XX	XXXXX	X	X	XXX	X	XX	XXX	XXXX	XX	XX	XX	XX	XX	XX	X	XXX	XX	X	XXXXXX	XXXXXX	XXXXXX	XXXXXX	X	XXXX	X	XXXXXX	
TOO	X	XXX			X	XXXXXX	X	X	X	X	XX		X	X	X	X	X	XXX	X	X	X	XXX	X	X	XX	XXX		XX	X	
TOUF		X		X	X	X					X	X	X		X				X	XX		XX		X	X	X		X	X	
TOV				X	X	X	XX	XX	X	XXX		X	X	X		X	X		X			XX	XX	XXX	X	XX	X	XX	XX	X
TPC	XX	X		X	X	XXXXXX	X	X	X	X			X	X		X		X	XXX		XXXXXX	X	X	XX	X	XX	X	X	XX	
TPP	X						X						X						X									X	XX	
TPT	XX			X	XXX	XXX	X	X		X		XX	X	X	X	X		XXX	X	X		X	XX	X	X	X	X	X	X	X
TPX	XXXX	XX	X	X	XXXXX		X	X	XXX	X	X	XX	X	X	X	XX		X	X	XX	XXXXXX	XX	XXX	X	XX	X	XX	X	XX	X
TRF	X	X	X		XXXX	XXX	X	X	XX	X	X	XX	X	X	X	XX	X	X	X	XXXXXX	XX	XX	X	X	X	X	X	X	XXXX	
TRI	X	X	X	XXXXXX	X	XX	X	XX	XX	X	X	XXX	X	XX	XXX	XX	X	XXX	X	X	X	XXXXXX	X	XX	X	XXX	XXX		XXXXXX	
TRN	X	X		X	X	X	X		X	X	X		X					X				X		X		X		XX	XX	XX
TRO	X			X	XXX	XX	X		XX	X		XX		X	X	X		X	X		XX	X	X	X	X	X	X	X	XXXX	XX
TRT	XXX	XX	XXXX	X	XXX	XXX	XXXXXX	XXXX		XXX	X		XX	X	XXX	X	XX		X	XXX	XX	X	XX	XX	X	X	X	X	X	X
TSM	X	X	X		X									X		X	X	XXX	X	X		XXX	XX	X		XX	XXX	X	X	XX
TSRJ	X	X		X	XXX	X	X	XX	XX	X		XXX	XX	X	XX	XX	X	X	X	XX		XX	XX	XX	XX	XX	XX	X	X	X
TTA	XX	X	XX		XXXXXX	XXXX	XXXX	X	XX		XX		XX	XX	XXXX	XXXX	XX	XXXXXX	XXXXXX	XXXX	X	XXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
TTG	X	X		XXX	XX	XXX	X	X	X	XX	XXXX	X	XXX	X	X	X	X	X	X	X	XX		X	X	X	X	X	X	XX	XX
TUL	XXX	XXXX		XXX	XXXXXX	XXXXXX	XXXXXX	XX	XX	XXX	XXXX		XX	X	XXXXXX	XXXX	XXXXXX	XXXX	XXXXXX	X	XXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
TUNG		X		XX	XXXXXX	XX	X	XX	X		X																		XXX	
TVO	XX	X		X	X	X	X	X		X		XX		X	X			XX	X		X					X		X	X	X
TWC		X	X	X	X		X					X	XX	X		X	XX	X	X	X		X	X	XX		XX		XX	X	X
TWD		X	X	X		X						X	X	X		X	XX		X	X		X	X	XX		XX	X	X		
TWF1		X	X	X	X		X				X	XX	X	X	X	XXX		X	X	X		X	X	XX		XX	XX	X	X	X
TWG		X	X	X		X					X	X	X	X	X	XXX					X		X		XX		X	X	X	X
TWK				X	X		X						X								X		X		X		X		X	
TWO			X	X	X		X						X	X				X			X		X	XX						
TWZ			X										X	X							X		X		XX			X	X	
TXNY	X			X	X	X		X		X													X		X		X		X	XX
TZL	X	X	X		X	XX		X		X		XX	XX	XX	XX			X	X	XXX	XX	XX	X	X		X	X	X	XXXX	
UCC	XX			X	XXX		X						X	X	X	X		X	X	X		X	X	X	X	X	X	XXXX		
ULC		X		XX		XXX		X		XX	XXXX	X	XXX	X				X	X	X		X	X	X	X	X	X	XX	X	X
UNM	XXX			X	X	X		X		X					X	XX	XX		X			XXX		X		X		X		
UPA	XXX	X	X	X	XXX		X	XXXXXXXXXX	XX	X	XXXXXXXXXX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
UPP	XX	X	XXX		X	XXXXX	X	X	XX	X		X	X	X	X	XX	XX	X	X	X	X	X	XXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
UZD	X		X		X	X	X		X	X		X	X	X	X	X		X	X	X		X	X	X	X	X	XX	X	XXX	
VAH	XX			X	XXX	XXX	X		X		XX	X	X	X	X			XXX	X	X		X	XX	X	X	X	X	X	X	X
VAI	X			X	X	X	XX	X		XX	X		X	X	X	XX	X													
VAL				X														X				X							X	X
VAO	XXXXXX	X	X	XXXXXXXXXXXXXX	XXXXXXXXXX	XXX	X	X	XXXXXXXX	XX	XX	X		XXX	X	X	X	XXX	X	XX	XX	XXX	XXXX	X	XXXX	XX	X	XXXXXX	XX	XX
VAY	XXXXX	XXX	XXXXXXXXXXXXXX	XXXX	XXX	X	XXX	XXXXXXXXXXXXXX	XX	XXXX	XXXXXX	XX	XXXX	XXXXXX	XXXX	XXXXXX	XXXX	XXXXXX	XXXXXX	XXXXXX	XX	XXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
VBY				XXX	X	XX	X	XX	XX	X		X	X	X	XXXXXX			XX	X	XXXX	X	X	XXXXXX	XXXX	XXXXXX	XXXX	XXXX	XXXX	XXXXXX	XXXX
VC1	X	X	X	X	XX	XXXXX	X	XX	X	XX	X		X	X	XX			X				X	XXX		X					
VDL	X		X	X	XXX	X		X	X	X		X		X	X	X		XX		X	X	X	X	X	XXX	XXX	XX	XXXXXX		
VGB				X	X	X		X					XX	X	X	X	X		X	X	X				XX	X				
VITF	X			X	XXX	X		X	X	X		X	XX	X	X	X		X	X	X		X	X	X				XXXX		
VKA				XXX		XXX	X	X	X				X					XX	XX	X		X	XX	X	X	X	X	XXXX		
VLI	X	XX	X		XXXXXX	X	X	XX	XXX	XX	XXX	X		XXXX	XXXX	XX		X	X	X		X	XX	X		XX	X	X	XXX	X
VLS	X	X		XXXXXXXX	X																									

[illegible]

The following stations each reported less than 10 readings:

ABHA	ACR	ADI	AGX	AHA	AIN	ALB	ALP	AMO	ANG	AOI	APA	APKW	APM	AQBJ	ARNI	ASS	ASW
ATA	ATZ	BAC	BBB	BBJ	BCG	BCI	BCPM	BCT	BDF	BGG	BGM	BGMT	BIB	BIX	BKR	BLE	BLH
BLN	BLW	BOT	BPIL	BRD	BRVW	BST	BTB	BTG	BUCI	BUGC	BUS	BUT	BVA	BVW	CAO	CAR	CBB
CBSW	CBTI	CCM	CCW	CDFW	CDM	CFTV	CGLM	CHIE	CHP8	CIO	CLI	CMW	CMV	COR	COY	CPB	CPK
CPW	CRBI	CRF	CRG	CROR	CTAO	CTCR	CTFE	CUSS	CVD	CVT	CXM	DAF	DAH	DBCT	DBO	DES	DHLI
DHW2	DLM	DMS	DPMT	DRA	DSH	DWY	EALH	EAU	EDB	EDR	EMM	EPA	EPH	ESR	ESK	ETR	ET3
ETB	ETER	ETW	FAM	FAR	FCV	FG2	FG4	FL2	FLAG	FMA	FOO	FRO	FRU	FRV	FUG	FUL	GAT
GBI	GBL	GBR	GCAZ	GGC	GDR	GGC	GHV	GHW	GHZJ	GL2	GLH	GMB	GMO	GRC1	GRFO	GRN	GT2
GULW	GZR	HBH	HBMT	HDC2	HITJ	HITZ	HLD	HLP	HMH	HNB	HOJ	HON	HPI	HPU	HON	HRV	HRY
HSJH	HSO	HSR	HTC	HUH	HUL	HWV	HYF	HYT	IIS	IKP	ILT	IMW	IRZ2	ITB	ITB1	ITB7	JAT
JBO	JCW	JGI	JLK	JMI	JNE	JOZ	JRDJ	JTS	JUD	KBN	KBR	KDB	KETZ	KFH	KHU	KIH	KIP
KIR	KKS	KKU	KLL	KLM	KMOR	KNH	KOE	KOH	KONO	KPO	KRO	KSU	KTD	KUR	LCR2	LFU	LIO
LLR1	LNOR	LOCW	LPD	LRC	LTCM	LTMT	LV1	MAJO	MAN	MBW	MBZ	MCMT	MCO	MD2	MD3	MD5	MDB
MDN	MDW	MEMT	MEW	MFTN	MGB	MGH	MJ2	MKA	MKL	MKS	MKT	MLG	MLH	MLS	MLX	MML	MNK
MOH	MOM1	MOW	MPOR	MOZ	MS1	MSZ	MTD	MVL	MWH	MXC	NA12	NAB	NAH	NANS	NAO	NAOJ	NDE
NEV	NGH	NHIL	NLO	NLW	NPH	NPN	NR1	NWRM	OBC	OBH	OC2	OCM	OD2	OFK	OHW	ONR	OOW
OPA	ORX	OSD	OSG	OSP	OT2	OTR	OUT	OVA	OZB	PAF	PATW	PBC	PBV	PCG	PCJ	PCM	PEM
PET	PFB	PFH	PGO	PGW	PHAM	PHC	PIG	PKL	PLBC	PLH	PLL	PLR	PML	POA2	POF	PPE	PPL
PRN	PRW	PRZ	PSG2	PT06	PT08	PT09	PTP	PTS	PUE	PUH	PUL	PV01	PV03	PV04	PV06	PV07	PV08
PVPS	PWH	PWLA	PWV	PYA	PZ1	OPS	QTFJ	RAC	RAO	RATZ	RBA	RC1	REMW	REY	RIM	RIN3	RIV
RPW	RSW	RUWJ	RW1	RW2	RW3	RW4	RW5	RW6	SAM	SAP	SAW	SBC	SBG	SCE	SCI	SCP	SCY
SDA	SEK	SFS	SGH	SHB	SHBJ	SHRG	SHWJ	SIM	SJAS	SJB	SJS	SKI	SLB	SLL	SLM	SLP	SLW
SMG	SMW	SNB	SOA	SOG2	SONG	SOSW	SPJ	SPT	SPW	SRA	SRAT	SRG	SRN	SSG	SSO	STB	STD
STR	STW	SURF	SVE	SVV	TAC	TAG	TATO	TAZ	TBT	TCC	TDD	TDL	TER	THI	TIG	TIH	TIK
TIM	TLC	TLG	TME	TMI	TOD	TPE	TPR	TRH	TSI	TTH	TUH	TWL	TWM1	TWW	UAV	US1	UTU
UZH	VBEM	VDB	VFP	VGZ	VIPM	VLL	VLMM	VLO	VNM	VPD	VSS	VTG	VTHM	VWV	WAH2	WAJH	WG3
ZHN	WHC	WHH	WIW	WKH	WMV	WMZ	WOB	WOH	WPB	WRD	WRN	WSIL	WTV	YAH	YAKW	YKU	YSS