

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

EARTHQUAKE DATA REPORT

FEBRUARY 1989

by

U.S. Geological Survey
NATIONAL EARTHQUAKE INFORMATION CENTER¹

Open-File Report 89-602-A



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1989

¹USGS, Denver, Colorado

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to agree w/ format of title on routing sheet

Earthquake Data Report for February 19 89

The Earthquake Data Report (EDR) is ~~a bulletin~~ produced by the National Earthquake Information Center (NEIC) ⁰⁴⁸⁸ containing all information used to calculate the locations and magnitudes of events published in the Preliminary Determination of Epicenters (PDE) Monthly Listing for the corresponding month. The EDR is a technical data file intended for users who are familiar with basic seismological practice. Potential users who are unfamiliar with such practice or who desire simply ~~a bulletin~~ of ^{listing} earthquake locations are advised to obtain the PDE Monthly Listing (available from the U.S. Government Printing Office) instead of the EDR. A machine-readable summary of the PDE Monthly Listing is available from the NEIC.

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The EDR data ~~are written~~ on 1.2 megabyte, high-density, 5 1/4 inch diskettes ~~and that~~ are readable by IBM PC or compatible computers running DOS version 2.0 or higher. All files are ASCII and the documentation is given in file AAREADME.DAT on the first disk. Succeeding disks are a continuation of the data file which starts on the first disk. Each disk contains a title page file, named AATPAGEn.DAT, and a data file, OFEDRmmn.DAT, where n is the disk number and mm is a two-character code for the month (JA, FE, MR, etc.).

OF 89-602-B consists of

OF 89-602-A is 270-page paper copy of the EDR, also available as microfiche.

U. S. DEPARTMENT OF THE INTERIOR
Geological Survey
EARTHQUAKE DATA REPORT

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

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

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

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

Two types of magnitude are computed: body-wave magnitude (m_b) and surface-wave magnitude (M_{SZ}). Each is a 25% trimmed mean of individual station values. Station magnitudes not used in the trimmed mean are marked with an X. This includes station magnitudes of either type which deviate significantly from the mean and surface-wave magnitudes determined from horizontal amplitudes. Body-wave magnitudes are computed according to the formula $\log(A/T) + Q$, derived by Gutenberg and Richter (1956), where A is the P-wave amplitude in micrometers, T is the period in seconds, and Q is the depth-distance factor. Surface-wave magnitudes are computed from the formula $\log(A/T) + 1.66 \log(\Delta) + 3.3$, where A is the maximum vertical surface-wave amplitude in micrometers, T is the period in seconds, and Δ is the epicentral distance in degrees. Surface-wave magnitudes are determined only for earthquakes whose focal depths (taking into account the computed standard deviations) are potentially less than 50 km, for stations having

$20^{\circ} \leq \Delta \leq 160^{\circ}$, and for reported periods of $18 \leq T \leq 22$ s. No correction for focal depth is used in the M_S calculation. Body-wave magnitudes are not determined from PKP arrivals or for stations having $\Delta \leq 5^{\circ}$. Amplitude values stated in this report are in nanometers (nm) for body-waves and micrometers (μm) for surface-waves.

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

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 “°”.

References

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

FEB 01, 1989 01h 14m 18.56±0.41s
45.986 N ± 3.7km 2.867 E ± 3.9km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.9 (LDG), MD 2.1 (STR).

| | | | | | | |
|------|------|-----|----|----|-------|------|
| AGO | 0.20 | 70 | Pg | 14 | 22.96 | 0.1 |
| PYM | 0.25 | 157 | Pg | 14 | 23.55 | -0.5 |
| | | | Sg | 14 | 27.31 | |
| MAF | 0.32 | 319 | Pg | 14 | 24.90 | -0.2 |
| | | | Sg | 14 | 29.10 | |
| PLDF | 0.53 | 91 | Pg | 14 | 29.02 | -0.2 |
| TCF | 0.55 | 304 | Pg | 14 | 28.90 | -0.8 |
| | | | Sg | 14 | 35.00 | |
| BGF | 0.57 | 359 | Pg | 14 | 29.60 | -0.6 |
| | | | Sg | 14 | 37.10 | |
| LBL | 0.80 | 160 | Pg | 14 | 33.51 | -0.5 |
| | | | Sg | 14 | 44.16 | |
| AVF | 0.87 | 22 | Pg | 14 | 35.30 | 0.0 |
| | | | Sg | 14 | 46.80 | |
| SMF | 0.94 | 45 | Pg | 14 | 36.50 | -0.1 |
| | | | Sg | 14 | 49.20 | |
| LSF | 0.97 | 286 | Pg | 14 | 36.40 | -0.6 |
| | | | Sg | 14 | 48.00 | |
| SSF | 1.16 | 22 | Pg | 14 | 40.30 | 0.0 |
| | | | Sg | 14 | 55.30 | |
| RJF | 1.17 | 235 | Pg | 14 | 39.90 | -0.5 |
| | | | Sg | 14 | 54.30 | |
| CAF | 1.20 | 208 | Pn | 14 | 39.50 | -1.5 |
| | | | Pg | 14 | 40.60 | |
| | | | Sg | 14 | 55.90 | |
| LBF | 1.26 | 37 | Pg | 14 | 42.50 | 0.5 |
| | | | Sg | 14 | 58.40 | |
| LOR | 1.45 | 28 | Pg | 14 | 45.70 | 0.8 |
| | | | Sg | 15 | 04.10 | |
| LPO | 1.76 | 223 | Pg | 14 | 51.20 | 1.9 |
| | | | Sg | 15 | 13.00 | |
| LFF | 1.83 | 236 | Pg | 14 | 52.20 | 2.0 |
| | | | Sg | 15 | 15.00 | |
| EPF | 3.46 | 212 | Pg | 15 | 23.10 | 9.5X |
| | | | Sg | 16 | 07.00 | |

S.D. = 1.0 on 17 of 18 obs.

% FEB 01, 1989 01h 22m 44.30±0.72s
39.776 N ± 6.8km 27.837 E ± 6.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

| | | | | | | |
|------|------|-----|-----|----|-------|-------|
| EDC | 0.57 | 2 | iPg | 22 | 55.40 | -0.5 |
| | | | iSg | 23 | 04.40 | |
| BNT | 0.58 | 6 | iPg | 22 | 55.70 | -0.4 |
| KCT | 0.62 | 40 | iPg | 22 | 56.20 | -0.6 |
| | | | iSg | 23 | 04.70 | |
| DST | 0.63 | 105 | iPg | 22 | 56.90 | -0.2 |
| EZN | 1.17 | 273 | iPn | 23 | 06.60 | 0.5 |
| YLV | 1.42 | 56 | iPn | 23 | 09.20 | -1.0 |
| IZM | 1.45 | 198 | ePn | 23 | 10.00 | -0.6 |
| ISK | 1.59 | 36 | ePn | 23 | 14.00 | 1.5 |
| GBZT | 1.59 | 50 | ePg | 23 | 35.00 | 22.4X |
| KHL | 1.96 | 137 | ePn | 23 | 21.00 | 3.1X |
| GPA | 1.97 | 74 | ePn | 23 | 19.20 | 1.2 |
| DMK | 2.04 | 358 | ePn | 23 | 22.00 | 2.9X |

S.D. = 1.0 on 9 of 12 obs.

FEB 01, 1989 01h 45m 49.16±0.66s
44.507 N ± 6.5km 9.536 E ± 5.3km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

| | | | | | | |
|-----|------|-----|-----|----|-------|------|
| BOB | 0.27 | 346 | Pc | 45 | 53.60 | -1.2 |
| | | | iSg | 45 | 57.80 | |
| GEN | 0.44 | 259 | P | 45 | 58.10 | -0.1 |
| | | | S | 46 | 05.45 | |
| BDI | 0.88 | 120 | P | 46 | 06.70 | 0.5 |
| | | | eSg | 46 | 16.50 | |
| CKI | 0.90 | 265 | P | 46 | 06.30 | -0.2 |
| | | | eSg | 46 | 20.00 | |
| FIN | 1.00 | 253 | P | 46 | 07.93 | -0.2 |
| | | | S | 46 | 21.35 | |
| PII | 1.06 | 137 | P | 46 | 08.80 | -0.3 |
| | | | eSg | 46 | 22.70 | |
| ROB | 1.21 | 260 | P | 46 | 11.17 | -0.6 |
| | | | S | 46 | 26.77 | |
| IMI | 1.33 | 244 | P | 46 | 12.81 | -0.9 |
| ORO | 1.57 | 316 | P | 46 | 16.70 | -0.5 |
| | | | eSn | 46 | 36.20 | |

ORX 1.57 316 P 46 17.76 0.5
S 46 37.61
STV 1.61 261 P 46 17.14 -0.6
PZZ 1.74 271 P 46 21.11 1.4
RSP 1.74 292 P 46 21.87 2.1
S.D. = 1.0 on 13 of 13 obs.

FEB 01, 1989 01h 54m 13.21±0.44s
44.952 N ± 4.3km 20.707 E ± 5.5km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 3.4 (TTG), 3.3 (VKA). Felt
at Poncevo and Beograd.

| | | | | | | |
|------|------|-----|-----|----|-------|-------|
| BEO | 0.22 | 234 | iPg | 54 | 16.70 | -1.3 |
| | | | eSg | 54 | 20.00 | |
| SSR | 0.74 | 96 | iPc | 54 | 38.00 | 10.2X |
| TIM | 0.86 | 25 | eP | 54 | 46.70 | 16.9X |
| BZS | 0.92 | 44 | iPc | 54 | 32.00 | 1.2 |
| DEV | 1.81 | 58 | iPd | 54 | 47.00 | 2.4 |
| PLE | 1.88 | 211 | ePn | 54 | 48.00 | 2.3 |
| | | | eSn | 55 | 14.00 | |
| IVA | 2.16 | 196 | ePn | 54 | 51.20 | 1.4 |
| | | | eSn | 55 | 21.00 | |
| UZD | 2.21 | 319 | ePn | 54 | 50.00 | 0.1 |
| PVY | 2.42 | 193 | ePn | 54 | 55.00 | 1.5 |
| | | | eSn | 55 | 27.30 | |
| DRA | 2.54 | 95 | ePd | 55 | 06.00 | 10.9X |
| BRY | 2.58 | 218 | ePn | 54 | 57.40 | 1.6 |
| | | | eSn | 55 | 32.40 | |
| CJR1 | 2.69 | 47 | eP | 55 | 04.50 | 7.2X |
| TTG | 2.73 | 203 | ePn | 54 | 59.50 | 1.6 |
| | | | eSn | 55 | 34.70 | |
| TIH | 2.77 | 316 | ePn | 54 | 58.00 | -0.4 |
| BUD | 2.79 | 336 | ePn | 54 | 57.00 | -1.7 |
| VTS | 2.97 | 142 | eP | 55 | 00.00 | -1.4 |
| PSZ | 3.02 | 350 | ePn | 55 | 01.80 | -0.2 |
| SKO | 3.03 | 170 | iPn | 55 | 08.00 | 6.0X |
| | | | iPb | 55 | 12.50 | |
| | | | iSn | 55 | 42.50 | |
| | | | iSb | 56 | 49.50 | |

| | | | | | | |
|-----|------|-----|-------|----|-------|------|
| SRO | 3.31 | 331 | ePn | 55 | 05.80 | -0.2 |
| | | | e | 55 | 51.60 | |
| | | | i | 56 | 08.10 | |
| ZAG | 3.44 | 286 | e(Pn) | 55 | 08.20 | 0.3 |
| PGB | 3.47 | 133 | iPc | 55 | 07.00 | -1.4 |
| PTJ | 3.48 | 288 | ePn | 55 | 07.50 | -1.0 |
| | | | ePb | 55 | 18.30 | |
| | | | ePg | 55 | 25.60 | |
| | | | eSn | 56 | 04.00 | |

| | | | | | | |
|-----|------|-----|-------|----|-------|-------|
| KKB | 3.54 | 150 | eP | 55 | 09.00 | -0.3 |
| MLR | 3.74 | 80 | ePc | 55 | 24.00 | 11.7X |
| PVL | 3.76 | 116 | eP | 55 | 12.00 | -0.4 |
| OHR | 3.84 | 179 | ePn | 55 | 12.70 | -1.0 |
| VAY | 3.88 | 159 | ePn | 55 | 12.00 | -2.1 |
| VBY | 3.89 | 280 | e(Pn) | 55 | 30.80 | 16.5X |
| | | | e(Sn) | 56 | 16.30 | |
| MMB | 4.02 | 146 | iPc | 55 | 16.00 | -0.2 |
| PLD | 4.07 | 133 | eP | 55 | 27.00 | 10.2X |
| ZST | 4.09 | 324 | ePn | 55 | 15.60 | -1.5 |
| | | | i | 55 | 22.40 | |
| | | | i | 55 | 30.40 | |
| | | | i | 56 | 14.50 | |
| | | | e | 56 | 45.40 | |

ISR 4.14 85 eP 55 32.50 14.6X
SPC 4.25 356 e(Pn) 55 22.00 2.4
i 55 49.80
e 56 56.00

| | | | | | | |
|-----|------|---------|-------|----|-------|-------|
| VRI | 4.34 | 76 | ePc | 55 | 34.00 | 13.3X |
| LJU | 4.48 | 286 | eP | 55 | 45.00 | 22.4X |
| | | | e(Sn) | 56 | 18.50 | |
| | | | e | 56 | 47.10 | |
| VKA | 4.49 | 319 | e(Pn) | 55 | 22.50 | -0.3 |
| | 0.5s | 14.10nm | i | 55 | 34.20 | |
| | | | i | 56 | 24.80 | |
| | | | iSg | 56 | 37.50 | |

| | | | | | | |
|-----|------|-----|-------|----|-------|-------|
| CEY | 4.50 | 282 | e(Pn) | 55 | 44.40 | 21.5X |
| | | | e(Sn) | 56 | 38.30 | |
| DIM | 4.55 | 128 | eP | 55 | 33.00 | 9.3X |
| | | | S | 56 | 43.00 | |
| KDZ | 4.76 | 132 | eP | 55 | 26.00 | -0.8 |
| VOY | 4.91 | 285 | e(Pn) | 55 | 47.00 | 18.1X |
| | | | eSn | 56 | 51.80 | |

| | | | | | | |
|-----|------|-----|----|----|-------|-------|
| JMB | 4.93 | 118 | eP | 55 | 38.00 | 8.9X |
| | | | iS | 56 | 56.00 | |
| KRA | 5.13 | 354 | eP | 56 | 03.90 | 32.0X |

CFR 5.28 85 eP 56 00.50 26.5X
KBA 5.55 295 eP 55 58.00 19.9X
0.7s 4.10nm

| | | | | | | |
|-----|------|-----|----|----|-------|-------|
| | | | e | 56 | 11.00 | |
| | | | i | 56 | 43.00 | |
| | | | i | 56 | 54.90 | |
| | | | i | 57 | 19.20 | |
| KHC | 6.42 | 313 | P | 55 | 49.40 | -0.7 |
| | | | e | 57 | 42.50 | |
| PRU | 6.54 | 323 | P | 56 | 03.50 | 11.7X |
| KSP | 6.60 | 335 | eP | 55 | 43.00 | -9.6X |

S.D. = 1.4 on 27 of 47 obs.

* FEB 01, 1989 01h 56m 18.15±0.92s
39.624 N ± 9.8km 142.259 E ± 17.5km
DEPTH = 67.0 ± 6.3 km
4.5mb (5 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)
Felt (II JMA) at Miyoko and
Ofunato.

| | | | | | | |
|------|------|-----|-----|----|-------|------|
| MIY | 0.23 | 276 | iP+ | 56 | 27.60 | -1.0 |
| | | | iS | 56 | 32.40 | |
| OFUJ | 0.71 | 220 | iP+ | 56 | 32.00 | -1.2 |
| | | | iS | 56 | 40.90 | |
| YAMJ | 2.26 | 231 | P | 56 | 53.60 | -0.3 |
| HOJ | 2.86 | 15 | P | 57 | 03.70 | 1.3 |
| | | | eS | 57 | 37.40 | |
| MRRJ | 2.94 | 343 | eP | 57 | 03.70 | 0.3 |
| | | | eS | 57 | 36.90 | |
| NIIJ | 3.49 | 228 | eP | 57 | 11.60 | 0.4 |
| KAKJ | 3.79 | 206 | eP | 57 | 15.00 | -0.4 |
| | | | eS | 57 | 58.20 | |
| KUSJ | 3.93 | 27 | P | 57 | 16.60 | -0.7 |
| | | | S | 58 | 01.00 | |
| CHJJ | 4.41 | 217 | eP | 57 | 24.30 | 0.2 |
| | | | eS | 58 | 17.30 | |

| | | | | | | |
|------|------|---------|-----|----|-------|-----|
| MAT | 4.44 | 227 | iPc | 57 | 25.70 | 1.2 |
| | 0.7s | 47.95nm | | | | |
| MTMJ | 4.64 | 231 | eP | 57 | 29.10 | 1.6 |
| IIDJ | 5.39 | 221 | eP | 57 | 38.20 | 0.3 |
| | | | eS | 58 | 44.10 | |

| | | | | | | |
|-----|-------|--------|----|----|-------|------|
| GUN | 47.61 | 274 | P | 04 | 50.00 | 0.3 |
| | 0.6s | 8.00nm | | | 4.8mb | |
| KKN | 48.13 | 274 | P | 04 | 54.00 | 0.5 |
| PKI | 48.14 | 274 | P | 04 | 52.40 | -1.3 |
| DMN | 48.35 | 274 | P | 04 | 53.20 | -2.1 |
| GKN | 48.52 | 275 | P | 04 | 56.80 | 0.4 |
| | 0.6s | 6.00nm | | | 4.8mb | |
| INK | 51.79 | 28 | eP | 05 | 30.00 | 9.4X |
| GBA | 62.10 | 265 | Pd | 06 | 33.70 | -0.7 |
| | 0.4s | 1.10nm | | | 4.3mb | |
| HFS | 72.01 | 336 | eP | 07 | 36.80 | 0.6 |
| | 0.4s | 1.80nm | | | 4.4mb | |
| NAO | 72.34 | 337 | P | 07 | 38.60 | 0.4 |
| | 0.6s | 1.50nm | | | 4.1mb | |

S.D. = 1.0 on 20 of 21 obs.

% FEB 01, 1989 02h 17m 41.50±1.06s
44.814 N ± 5.6km 6.849 E ± 12.3km
DEPTH = 10.0km (geophysicist)
FRANCE (538)

ML 2.1 (GEN).

| | | | | | | |
|-----|------|-----|----|----|-------|------|
| RRL | 0.12 | 337 | Pd | 17 | 44.46 | -0.2 |
| | | | S | 17 | 46.37 | |
| PZZ | 0.36 | 150 | P | 17 | 48.81 | -0.1 |
| | | | S | 17 | 54.12 | |
| RSP | 0.44 | 41 | P | 17 | 50.16 | -0.4 |
| | | | S | 17 | 57.13 | |
| STV | 0.66 | 149 | P | 17 | 54.77 | 0.0 |
| | | | S | 18 | 03.69 | |
| LSD | 0.68 | 19 | P | 17 | 55.69 | 0.5 |
| ROB | 0.90 | 125 | P | 17 | 58.91 | 0.2 |

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

* FEB 01, 1989 02h 35m 59.11±1.26s
19.673 S ± 12.5km 68.740 W ± 16.4km
DEPTH = 165.3 ± 15.5 km
CHILE-BOLIVIA BORDER REGION (124)

| | | | | | | |
|------|------|---------|---|----|-------|-----|
| CNCB | 2.94 | 14 | P | 36 | 48.00 | 0.6 |
| LPB | 3.18 | 11 | P | 36 | 51.30 | 0.9 |
| | 1.0s | 80.00nm | | | | |
| CCH | 3.36 | 48 | | | | |

01d 02h

iS 37 47.50
HJA 4.70 139 ePc 37 09.80 0.3
KIC 68.05 74 P 46 43.20 0.1
YKA 89.52 341 P 48 42.40 4.1X
GBA 147.08 95 PKPc 55 27.10 4.8X
0.7s 2.70nm
S.D. = 1.2 on 7 of 9 obs.

FEB 01, 1989 03h 34m 15.89±0.86s
24.382 S ± 7.7km 67.588 W ± 9.1km
DEPTH = 180.9 ± 8.0 km
4.7mb (3 obs.)

CHILE-ARGENTINA BORDER REGION (127)

HJA 2.31 60 iPc 34 55.00 -1.8
(S) 35 28.50
CCH 7.09 11 eP 35 59.60 1.2
CNCB 7.54 357 iPd 36 05.00 0.3
LPB 7.82 356 P 36 09.00 0.7
1.0s 120.00nm 5.2mb X
Z 0.89 356 P 36 11.20 -0.7
20s 0.15um

ARE 8.69 334 eP 36 18.00 -1.4
eS 37 47.00
PEL 9.14 197 eP 36 25.50 0.4
ITB1 12.02 94 e(P) 37 03.60 1.0
ITB 12.18 95 e(P) 37 04.70 0.0
ITB7 12.21 96 e(P) 37 06.70 1.6
VBA 14.45 162 ePd 37 28.50 -4.7X
S 37 33.50

VAO 18.94 90 iPc 38 18.70 -6.8X
e 38 36.00
BRAS 20.27 89 iPc 38 25.80 -13.5X
ATB 25.68 38 e(P) 39 20.20 -10.7X
RLO 65.56 336 eP 44 42.50 0.5
LNO 65.63 335 e(P) 44 42.00 -0.3
SIO 65.68 335 e(P) 44 43.30 0.5
LIC 68.07 72 P 44 53.58 -4.6X
TIC 68.28 72 P 44 55.58 -3.9X
KIC 68.38 72 Pc 44 55.70 -4.5X
0.6s 35.00nm 5.3mb

ALO 69.56 327 eP 45 08.70 1.5
0.9s 10.50nm 4.6mb
KUK 72.12 74 eP 45 18.50 -4.2X
LRM 80.88 330 eP 46 13.50 2.4X
MAW 81.23 163 eP 46 13.00 0.6
BUL 87.25 111 iPd 46 42.20 -1.4
BNG 88.30 84 ePd 46 47.10 -1.4
0.6s 3.00nm 4.4mb

YKA 94.30 340 P 47 16.50 1.4
ASPA 127.89 205 ePKP 53 02.10 0.0
0.6s 8.00nm
WRA 131.04 208 PKPd 53 08.10 -0.1
0.5s 2.60nm
WB5 131.08 208 ePKP 53 08.70 0.5
GBA 145.33 102 PKPd 53 32.50 -1.7
0.5s 8.20nm

GKN 154.84 76 PKP 53 48.80 0.3
DMN 155.27 77 PKP 53 49.00 -0.2
KKN 155.44 76 PKP 53 49.40 0.1
GUN 155.94 76 PKP 53 48.90 -1.4
S.D. = 1.1 on 26 of 35 obs.

% FEB 01, 1989 03h 46m 09.36±0.82s
38.296 N ±10.2km 28.854 E ± 7.7km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

KHL 0.53 87 iPg 46 18.70 -1.4
iSg 46 26.20
IZM 1.26 275 ePn 46 32.00 -0.7
DST 1.32 352 iPn 46 35.00 1.2
BCK 1.61 121 ePn 46 38.40 0.5
ELL 1.76 151 ePn 46 41.00 0.8
KCT 1.99 349 iPn 46 47.10 3.7X
EDC 2.19 340 ePn 46 50.00 3.7X
EZN 2.49 309 ePn 46 50.10 -0.5
S.D. = 1.3 on 6 of 8 obs.

* FEB 01, 1989 05h 10m 48.88±1.05s
51.468 N ±23.1km 179.997 E ± 9.2km
DEPTH = 33.0km (normal)
4.7mb (5 obs.)

RAT ISLANDS, ALEUTIAN ISLANDS (6)

ADK 2.11 77 eP 11 23.40 0.9

SMY 3.85 291 eP 11 53.00 5.9X
IMA 19.77 32 eP 15 19.50 0.7
INK 27.82 35 eP 16 41.00 4.5X
MBC 33.81 22 eP 17 31.00 1.7
YKA 35.72 46 P 17 45.40 -0.4
KVN 44.03 81 e(P) 18 57.00 1.9X
BW06 46.99 72 eP 19 17.60 -1.1
FRB 53.34 31 eP 20 05.00 -1.5
SUF 64.30 347 iP 21 22.20 -0.5
NUR 66.63 347 eP 21 37.00 -0.6
NAO 67.72 354 P 21 43.40 -1.2
0.9s 5.50nm 4.7mb

GUN 71.12 291 PKP 22 07.10 0.8
0.7s 14.00nm 5.1mb
KKN 71.56 291 PKP 22 09.30 0.5
0.6s 7.00nm 4.9mb
PKI 71.65 291 PKP 22 10.00 0.5
0.6s 4.00nm 4.6mb
GKN 71.78 292 PKP 22 10.30 0.3
DMN 71.80 291 PKP 22 09.60 -0.7
KBA 81.17 351 eP 23 03.00 0.6
0.7s 4.90nm 4.6mb

S.D. = 1.0 on 15 of 18 obs.

? FEB 01, 1989 05h 51m 13.23±3.15s
19.649 N ±35.8km 108.535 W ±23.3km
DEPTH = 10.0km (geophysicist)
3.7mb (2 obs.)

REVILLA GIGEDO ISLANDS REGION (53)

GLA 14.48 338 eP 54 41.10 0.8
ALO 15.34 6 eP 54 50.00 -1.7
1.3s 5.77nm 3.8mb
PRI 19.59 330 ePc 55 45.80 1.2
FRI 19.85 333 ePc 55 46.40 -0.9
TNP 19.86 339 eP 55 47.60 0.0
PRS 20.08 329 ePc 55 49.40 -0.3
GCC 20.94 329 ePc 55 57.90 -0.7
MHC 21.02 330 e(P) 55 59.10 -0.5
CMB 21.02 333 ePc 55 58.70 -0.8
KVN 21.03 339 eP 56 00.30 0.5
BW06 23.07 358 eP 56 22.10 1.9
0.6s 1.16nm 3.6mb
YKA 43.01 356 P 59 15.60 1.4
INK 51.10 348 eP 00 17.00 -0.7
MBC 56.90 357 eP 01 00.00 -0.3
S.D. = 1.1 on 14 of 14 obs.

* FEB 01, 1989 06h 31m 43.30±0.92s
7.425 S ± 8.4km 147.038 E ±13.4km
DEPTH = 33.0km (normal)
4.3mb (2 obs.)

EAST PAPUA NEW GUINEA REGION (207)

ML 4.1 (PMG).

LAT 0.77 357 e(P) 31 57.50 -0.2
LMG 1.84 143 eP 32 14.00 0.8
PMG 1.97 177 iPc 32 15.00 -0.1
CTA 12.61 183 eP 34 42.00 -1.3
WB5 17.44 224 eP 35 45.70 -0.2
WRA 17.51 223 P 35 48.00 1.4
1.1s 13.30nm 4.0mb

ASPA 20.49 217 eP 36 20.80 -0.5
1.0s 29.00nm 4.6mb
Z 15s 0.32um 3.8MszX
LR 45 02.90
S.D. = 1.0 on 7 of 7 obs.

FEB 01, 1989 10h 22m 41.59±0.47s
31.561 N ± 2.5km 140.155 E ± 2.2km
DEPTH = 118.6 ± 4.1 km
5.5mb (85 obs.)

SOUTH OF HONSHU, JAPAN (211)

Felt (I JMA) at Tateyama.

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 95, 21C

Centroid Location:

Origin Time 10:22:42.2 0.4

Lot 31.62N 0.04 Lon 140.11E 0.07

Dep 88.4 6.0 Half-duration 1.8

Moment Tensor: Scale 10¹⁷ Nm

Mrr=0.38 0.06 Mtt=0.17 0.08

Mff=-0.55 0.09 Mrt=0.13 0.05

Mrf=-1.25 0.05 Mtf=-0.19 0.10

Principal Axes:

T Vol= 1.29 Plg=53 Azm= 72

N 0.13 11 176
P -1.42 34 274
Best Double Couple: Mo=1.4*10¹⁷
NP1: Strike= 43 Dip=14 Slip= 138
NP2: 175 80 79

TAT 3.42 356 eP 23 35.00 0.9
S 24 08.90
IIDJ 4.33 335 iPd 23 46.10 -0.5
eS 24 33.30
CHJJ 4.58 348 iP+ 23 48.20 -1.7
eS 24 40.70

KAKJ 4.63 0 P 23 46.60 -4.0X
S 24 37.30
WKYJ 4.66 306 iPd 23 52.30 1.2
S 24 45.90
MAT 5.22 343 iPc 23 56.90 -1.8
0.6s 106.67nm 5.2mb

TSRJ 5.28 320 iPd 24 00.00 0.6
eS 25 00.70
MTMJ 5.38 339 P 23 59.80 -1.0
TKSJ 5.68 297 iPd 24 06.50 1.6
NIJJ 5.74 351 P 24 01.70 -4.1X
eS 25 06.50

YAMJ 6.60 359 P 24 12.80 -4.7X
eS 25 24.30
YONJ 6.66 305 iPd 24 20.00 1.6
S 25 34.80
SHK 6.94 297 ePd 24 23.50 1.3
0.8s 955.22nm 6.3mb

OFUJ 7.60 9 P 24 24.70 -6.4X
eS 25 42.10
KAGJ 7.93 270 P 24 39.20 3.6X
KUMJ 7.98 279 P 24 39.20 3.0X
SHNJ 8.03 291 P 24 38.90 2.0

AOMJ 8.98 1 eP 24 46.10 -3.7X
MRRJ 10.87 4 eP 25 08.30 -6.6X
eS 26 59.90
HOJJ 11.09 12 P 25 11.50 -6.3X
eS 27 06.00

KUSJ 12.07 16 P 25 23.00 -7.7X
eS 27 26.20
ASAJ 12.69 8 P 25 33.00 -5.8X
eS 27 42.70
MDJ 15.44 331 eP 26 12.20 -1.8

Z 20s 1.80um
E 10s 0.80um
epP 26 23.00
S 28 53.00
SSE 16.22 273 P- 26 25.00 1.2
1.2s 139.00nm 5.1mb

Z 16s 0.50um
N 10s 0.90um
pP 26 35.00
sP 26 52.00
eS 29 34.00
esS 29 54.00
SS 30 04.00

SNY 16.76 312 eP 26 30.30 0.0
Z 20s 1.50um
N 11s 0.70um
PP 26 44.00
S 29 36.00
DL2 16.80 301 P 26 33.00 2.1
E 10s 1.20um

eS 29 40.00
CN2 16.84 321 Pd 26 29.00 -2.4
4.0s 0.40nm 2.0mb X
Z 15s 2.00um
E 14s 1.20um

ANP 17.58 253 e(P) 26 34.00 -6.6X
NJ2 18.11 277 Pc 26 48.00 1.1
8.0s 1.20nm 2.2mb X
S 30 11.50

GUMO 18.41 165 eP 26 50.60 0.3
1.1s 678.45nm 5.9mb
PJG 18.41 165 eP 26 51.20 0.9
GUA 18.46 165 eP 26 51.50 0.6
0.8s 214.93nm 5.5mb

TIA 19.66 290 eP 27 01.90 -1.5
E 10s 0.80um
QZH 20.09 256 Pc 27 14.00 6.1X
Z 24s 2.00um 4.4MszX
N 24s 3.40um
BJI 21.16 300 eP 27 17.00 -1.6
Z 18s 1.10um 4.3Msz

| | | | | | | | | | | | | | | | | | |
|-----|-------|----------|----------|----------|------|-------|----------|----------|----------|----------|--------|-------|----------|----------|----------|----------|------|
| E | 11s | 0.61um | 27 28.00 | 44kmX | WB5 | 51.45 | 187 | iPc | 31 34.60 | -2.1 | TAU | 74.40 | 175 | eP | 34 09.00 | 1.2 | |
| | | epP | 31 07.00 | | | | | i | 32 35.10 | | WDC | 75.24 | 51 | iPc | 34 12.90 | 0.0 | |
| | | eS | 31 12.00 | | | | | eScP | 36 36.00 | | LBFM | 75.30 | 50 | P | 34 13.60 | 0.0 | |
| | | PcP | 31 44.00 | | WRA | 51.51 | 187 | Pc | 31 35.10 | -2.1 | LTCM | 75.69 | 52 | P | 34 15.40 | -0.1 | |
| | | esS | 34 45.00 | | | 0.6s | 12.20nm | | | 5.0mb | MIN | 75.97 | 51 | iPc | 34 16.70 | -0.6 | |
| | | eScS | 38 29.50 | | CTA | 51.69 | 173 | eP | 31 38.00 | -0.5 | NWRM | 76.03 | 53 | P | 34 17.30 | -0.1 | |
| PIP | 22.03 | 238 | iPd | 27 28.00 | 0.7 | QIS | 51.82 | 181 | eP | 31 42.00 | 2.5 | ORV | 76.43 | 52 | iPc | 34 19.30 | -0.4 |
| WHN | 22.12 | 274 | eP | 27 29.50 | 1.4 | BRW | 51.86 | 21 | ePc | 31 39.20 | 0.0 | BRK | 76.75 | 54 | ePc | 34 21.30 | -0.1 |
| | 1.0s | 0.11nm | | 2.2mb X | KSH | 51.86 | 298 | P | 31 40.00 | 0.1 | BKS | 76.76 | 54 | ePc | 34 21.50 | 0.0 | |
| N | 10s | 0.83um | 27 52.00 | 108kmX | IMA | 51.96 | 28 | ePc | 31 39.40 | -0.8 | PCC | 76.85 | 54 | ePc | 34 21.70 | -0.3 | |
| | | pP | 28 03.00 | | | 1.1s | 40.30nm | | | 5.3mb | SES | 77.05 | 38 | iPc | 34 22.00 | -1.0 | |
| | | sP | 31 20.00 | | KDC | 51.98 | 39 | P | 31 38.90 | -1.4 | | 0.8s | 135.00nm | | 5.8mb | | |
| | | eS | 32 04.00 | | PMR | 53.88 | 34 | ePc | 31 50.80 | -1.9 | MSL | 77.08 | 305 | ePc | 34 23.00 | -0.3 | |
| | | ScP | 34 52.00 | | | 0.9s | 125.00nm | | | 5.9mb | GCC | 77.35 | 54 | ePc | 34 24.60 | -0.1 | |
| BAG | 23.34 | 234 | eP | 27 40.00 | -0.2 | NDI | 53.85 | 284 | iPd | 31 53.00 | -1.5 | MHC | 77.44 | 54 | iPc | 34 25.50 | 0.1 |
| | 1.3s | 192.31nm | | 5.3mb | FBA | 54.32 | 30 | ePc | 31 56.10 | -1.3 | ARN | 77.51 | 54 | P | 34 25.80 | 0.1 | |
| | | e | 31 41.00 | | TOA | 55.07 | 33 | ePc | 32 02.50 | -0.5 | RGS | 77.60 | 339 | eP | 34 26.50 | 0.9 | |
| | | eS | 32 22.00 | | ASPA | 55.24 | 187 | eP | 32 02.70 | -1.8 | SAO | 77.86 | 54 | eP | 34 27.20 | -0.4 | |
| TIY | 23.57 | 293 | eP | 27 41.80 | -0.4 | | 0.6s | 25.00nm | | 5.4mb | CMB | 77.95 | 53 | iPc | 34 28.20 | 0.1 | |
| E | 14s | 0.90um | 28 10.50 | 141kmX | | | | eS | 39 33.80 | | | | e | 34 54.80 | | | |
| | | epP | 31 48.50 | | OPA | 55.52 | 84 | P | 32 06.70 | 0.0 | PRS | 78.13 | 55 | iPc | 34 29.20 | 0.1 | |
| | | S | 32 32.00 | | HON | 55.67 | 84 | P | 32 07.70 | -0.1 | LLA | 78.29 | 54 | ePc | 34 30.20 | 0.2 | |
| | | eS | 32 32.00 | | MBL | 55.92 | 203 | eP | 32 08.00 | -1.5 | HFS | 78.64 | 336 | eP | 34 31.20 | -0.2 | |
| QCP | 24.26 | 230 | eP | 27 50.00 | 1.1 | HYB | 57.14 | 271 | iPc | 32 17.20 | -1.2 | | 0.7s | 56.60nm | | 5.5mb | |
| HHC | 24.77 | 300 | eP | 27 53.00 | -0.7 | | 1.0s | 450.00nm | | 6.4mb | Z | 17s | 0.30um | | 4.7MszX | | |
| Z | 16s | 1.70um | | 4.6MszX | | | | e | 32 36.00 | | | | LR | 07 17.00 | | | |
| N | 10s | 0.50um | 27 59.00 | 1.1 | RMO | 58.31 | 171 | iPc | 32 25.70 | -0.4 | PRI | 78.72 | 55 | ePc | 34 32.90 | 0.4 | |
| GZH | 25.22 | 257 | eP | 28 03.00 | -0.9 | NANU | 58.76 | 207 | eP | 32 28.00 | -1.3 | | | e | 34 40.00 | | |
| BTO | 25.87 | 299 | P | 28 03.00 | -0.9 | | 0.5s | 5.00nm | | 4.8mb | LRM | 78.82 | 43 | iPc | 34 33.30 | 0.3 | |
| N | 15s | 0.90um | 32 20.00 | | WARB | 58.85 | 194 | eP | 32 24.00 | -6.0X | | | e | 34 59.40 | | | |
| E | 15s | 1.50um | 28 06.20 | -1.8 | | 0.4s | 4.00nm | | | 4.8mb | FFC | 78.88 | 32 | iPc | 34 32.30 | -0.5 | |
| XAN | 26.32 | 284 | Pc | 28 06.20 | -1.8 | DZM | 58.98 | 151 | iPc | 32 31.20 | 0.2 | | 0.8s | 70.00nm | | 5.5mb | |
| | N 12s | 0.60um | 28 24.40 | 2.1 | INK | 59.74 | 25 | iPc | 32 35.00 | -0.6 | NRA0 | 78.94 | 337 | P | 34 32.20 | -0.8 | |
| | E 11s | 0.80um | 28 36.20 | -2.0 | BRS | 59.85 | 167 | iP | 32 36.00 | -0.8 | FRI | 78.94 | 53 | iPc | 34 33.40 | -0.1 | |
| DAV | 27.90 | 212 | eP | 28 36.20 | -2.0 | GBA | 59.86 | 268 | Pc | 32 35.80 | -1.3 | KVN | 78.96 | 51 | P | 34 34.00 | 0.2 |
| GYA | 29.66 | 269 | P | 28 47.00 | 2.4 | | 1.0s | 57.60nm | | 5.6mb | GDH | 78.99 | 5 | iPc | 34 33.20 | 0.1 | |
| N | 16s | 0.80um | 28 47.00 | 2.4 | POO | 60.66 | 275 | iPc | 32 40.20 | -2.4 | | 1.0s | 24.00nm | | 4.9mb | | |
| LZH | 30.39 | 289 | eP | 29 01.70 | -0.2 | MEKA | 61.42 | 202 | eP | 32 46.90 | -0.6 | NAO | 79.11 | 337 | P | 34 33.90 | 0.0 |
| | 2.0s | 82.00nm | 29 11.00 | -0.3 | KOD | 61.48 | 264 | eP | 32 48.00 | -0.6 | | 0.6s | 39.50nm | | 5.4mb | | |
| | Z 38s | 1.80um | 29 10.20 | -1.9 | QUE | 61.70 | 290 | iPd | 32 48.50 | -1.1 | MNA | 79.25 | 52 | eP | 34 35.60 | 0.3 | |
| | E 13s | 0.60um | 29 15.00 | 0.1 | MBC | 62.06 | 15 | ePc | 32 50.20 | -1.0 | KVT | 79.42 | 312 | iP | 34 37.10 | 1.0 | |
| SMY | 32.42 | 39 | P | 29 15.00 | 0.1 | | 0.9s | 106.00nm | | 5.8mb | BCH | 79.62 | 55 | P | 34 37.60 | 0.3 | |
| | 0.8s | 206.90nm | 29 15.00 | -0.3 | STK | 63.11 | 179 | eP | 32 58.00 | -0.5 | BLP | 79.72 | 56 | P | 34 37.80 | 0.1 | |
| KMI | 33.43 | 268 | eP | 29 15.00 | -0.3 | FORR | 63.11 | 192 | eP | 32 57.00 | -1.5 | SVP | 79.86 | 52 | P | 34 38.90 | 0.1 |
| Z | 30s | 1.10um | 29 15.00 | -0.3 | | 0.4s | 41.00nm | | | 5.7mb | PPK | 79.94 | 52 | P | 34 39.30 | 0.2 | |
| | | eS | 34 20.00 | | COOL | 64.67 | 198 | eP | 33 08.50 | -0.3 | SYP | 80.03 | 56 | eP | 34 40.00 | 0.4 | |
| GTA | 33.55 | 295 | P | 29 10.20 | -1.9 | MHI | 65.23 | 299 | iPd | 33 12.80 | 0.3 | TNP | 80.06 | 51 | P | 34 40.00 | 0.2 |
| | Z 19s | 0.70um | 34 21.80 | | | | | e | 41 44.00 | | | 1.1s | 75.76nm | | 5.4mb | | |
| | N 23s | 2.20um | 35 24.70 | | ALE | 65.62 | 3 | eP | 33 14.00 | -0.3 | MZP | 80.15 | 52 | P | 34 40.30 | 0.0 | |
| | | S | 39 23.90 | | | 0.9s | 19.00nm | | | 5.0mb | LCH | 80.22 | 52 | P | 34 40.60 | 0.0 | |
| | | ScP | 29 15.00 | 0.1 | BAL | 65.71 | 202 | eP | 33 14.00 | -1.4 | GMN | 80.45 | 52 | P | 34 42.00 | 0.1 | |
| KKM | 33.86 | 226 | ePd | 29 15.00 | 0.1 | KBS | 65.87 | 350 | iPd | 33 17.10 | 1.2 | ISA | 80.49 | 54 | eP | 34 41.00 | -0.9 |
| ADK | 37.37 | 44 | ePc | 29 42.90 | -1.2 | BWA | 66.09 | 173 | eP | 33 18.30 | 0.5 | GVN | 80.55 | 52 | P | 34 42.50 | 0.3 |
| | 0.9s | 106.30nm | 29 42.90 | -1.5 | ADE | 66.19 | 181 | eP | 33 29.80 | 11.4X | TMO | 80.61 | 53 | P | 34 42.50 | -0.3 | |
| LOE | 37.50 | 257 | eP | 29 44.00 | -1.5 | KLB | 66.30 | 201 | eP | 33 18.00 | -1.1 | MCA | 80.78 | 53 | P | 34 43.40 | 0.1 |
| | | e | 35 25.00 | | CAN | 67.05 | 172 | eP | 33 27.80 | 3.9X | KRNA | 80.80 | 51 | P | 34 43.90 | 0.2 | |
| CHG | 39.17 | 261 | iPd | 29 59.10 | -0.4 | NWAO | 67.70 | 201 | eP | 33 27.00 | -1.0 | CLC | 81.01 | 54 | eP | 34 44.00 | -0.6 |
| | 0.9s | 51.68nm | 30 00.50 | -3.2X | KEV | 68.19 | 340 | iP | 33 31.20 | 0.6 | PANV | 81.04 | 53 | P | 34 45.00 | 0.1 | |
| NST | 39.69 | 256 | eP | 30 05.20 | 0.2 | | 0.7s | 21.40nm | | 5.1mb | BLT | 81.11 | 51 | P | 34 45.40 | 0.1 | |
| BDT | 39.85 | 259 | iPd | 30 05.20 | 0.2 | YKA | 69.08 | 29 | P | 33 35.30 | -0.8 | FMT | 81.13 | 52 | P | 34 45.40 | 0.2 |
| | 0.6s | 30.30nm | 30 17.00 | 0.3 | YKC | 69.14 | 29 | iPc | 33 35.00 | -1.5 | TMBR | 81.18 | 52 | P | 34 45.80 | 0.2 | |
| PMG | 41.28 | 170 | e(P) | 30 19.60 | -0.2 | | 1.0s | 115.00nm | | 5.7mb | YMT1 | 81.18 | 52 | P | 34 46.00 | 0.5 | |
| NNT | 41.65 | 252 | eP | 30 19.60 | -0.2 | SOD | 69.61 | 338 | iP | 33 39.30 | 0.0 | WRN | 81.20 | 51 | P | 34 45.80 | 0.1 |
| | | i | 35 58.30 | | PGC | 70.93 | 44 | eP | 33 48.00 | 0.4 | YMT5 | 81.21 | 52 | P | 34 45.80 | 0.1 | |
| LSA | 41.93 | 281 | P | 30 23.10 | 0.5 | | 0.9s | 89.00nm | | 5.6mb | YMT4 | 81.24 | 52 | P | 34 46.10 | 0.3 | |
| WMO | 42.62 | 302 | iPd | 30 27.00 | -0.6 | KJF | 70.99 | 335 | iP | 33 47.80 | 0.1 | YMT2 | 81.25 | 52 | P | 34 46.10 | 0.2 |
| | Z 28s | 0.60um | 30 27.00 | -0.6 | | 0.6s | 75.60nm | | | 5.7mb | YMT6 | 81.26 | 52 | P | 34 46.20 | 0.2 | |
| | | S | 36 40.50 | | GMW | 71.82 | 45 | P | 33 53.50 | 0.5 | BGB | 81.28 | 52 | P | 34 46.30 | 0.1 | |
| SNG | 44.12 | 245 | eP | 30 40.90 | 1.0 | BMW | 72.03 | 46 | P | 33 54.50 | 0.1 | YMT3 | 81.29 | 52 | P | 34 46.30 | 0.2 |
| MTN | 44.99 | 192 | eP | 30 45.00 | -1.7 | SUF | 72.41 | 334 | iP | 33 56.00 | -0.2 | CDH1 | 81.32 | 52 | P | 34 46.40 | 0.1 |
| IPM | 45.46 | 242 | ePd | 30 50.80 | 0.2 | | 0.6s | 71.80nm | | 5.6mb | GLR | 81.34 | 52 | P | 34 46.40 | 0.0 | |
| | 0.9s | 54.70nm | 31 01.50 | -0.6 | RMW | 72.45 | 45 | P | 33 57.00 | 0.2 | TPU | 81.36 | 51 | P | 34 46.70 | 0.1 | |
| GUN | 46.87 | 280 | P | 31 04.50 | -1.5 | SHW | 72.77 | 46 | P | 33 59.40 | 0.6 | LSM | 81.41 | 52 | P | 34 47.10 | 0.4 |
| PKI | 47.37 | 280 | P | 31 05.20 | -1.0 | LON | 72.78 | 45 | P | 33 58.60 | -0.1 | LOP | 81.42 | 52 | P | 34 46.90 | 0.0 |
| KKN | 47.41 | 280 | P | 31 06.70 | -1.1 | PNT | 72.86 | 42 | iPc | 33 59.00 | -0.1 | GMR | 81.43 | 51 | P | 34 47.00 | 0.1 |
| DMN | 47.62 | 280 | P | 31 08.60 | -1.1 | | 0.9s | 116.00nm | | 5.7mb | QSM | 81.43 | 53 | P | 34 46.90 | 0.2 | |
| GKN | 47.89 | 281 | P | 31 12.20 | -0.4 | VGB | 73.99 | 46 | P | 34 06.00 | 0.2 | GWY | 81.45 | 53 | P | 34 47.10 | 0.1 |
| PSI | 48.27 | 242 | iPc | 31 12.20 | -0.4 | TAB | 74.05 | 305 | eP | 33 48.00 | -18.4X | SBB | 81.46 | 55 | eP | 34 46.00 | -1.0 |
| | 0.6s | 17.80nm | 31 29.40 | 0.0 | FHC | 74.17 | 52 | iPc | 34 07.70 | 0.9 | CPX | 81.46 | 52 | P | 34 46.80 | -0.2 | |
| SVW | 50.54 | 35 | ePc | 31 28.70 | -0.9 | NUR | 74.29 | 332 | iP | 34 07.20 | 0.1 | AMR | 81.46 | 53 | P | 34 47.10 | 0.2 |
| TTA | 50.55 | 32 | ePc | 31 28.70 | -0.9 | EDM | 74.31 | 37 | iPc | 34 06.10 | -1.4 | PAS | 81.50 | 55 | eP | 34 46.00 | -1.1 |
| | | | | | DPW | 74.39 | 43 | P | 34 07.90 | -0.1 | MWC | 81.54 | 55 | eP | 34 47.00 | -0.6 | |
| | | | | | | | | | | | MTI | 81.57 | 51 | P | 34 47.90 | 0.3 | |
| | | | | | | | | | | | SRG | 81.59 | 51 | P | 34 48.40 | 0.7 | |

01d 10h

| | | | | | | | | | | | | | | |
|-------|-------|----------|----------|--------|------|-------|----------|----------|--------|------|------------|--------------------|----------|--------|
| JON | 81.69 | 52 P | 34 48.60 | 0.4 | SKO | 87.64 | 319 iP | 35 18.00 | 0.3 | MFF | 94.34 | 334 eP | 35 49.40 | 0.7 |
| SUPRG | 81.75 | 52 P | 34 48.60 | 0.1 | PTJ | 87.84 | 325 e(P) | 35 17.90 | -0.8 | | 1.0s | 37.60nm | | 5.7mb |
| DUG | 81.76 | 48 P | 34 49.00 | 0.5 | EKA | 87.92 | 340 P | 35 20.00 | 1.2 | SIO | 94.63 | 43 ePc | 35 50.10 | -0.2 |
| NPN | 81.81 | 51 P | 34 49.20 | 0.3 | | 0.8s | 11.70nm | | 5.0mb | RJF | 94.77 | 332 eP | 35 51.60 | 0.8 |
| NOP | 81.83 | 53 P | 34 48.90 | 0.0 | BHG | 87.99 | 327 eP | 35 11.80 | -7.5X | | 0.9s | 32.70nm | | 5.7mb |
| GSC | 81.83 | 54 eP | 34 49.00 | 0.1 | KBA | 88.24 | 327 iPd | 35 20.00 | -0.7 | TUL | 94.81 | 42 eP | 35 51.40 | 0.3 |
| CFR | 81.83 | 319 eP | 34 51.00 | 2.4 | | 0.7s | 9.30nm | | 4.9mb | | 0.9s | 17.90nm | | 5.5mb |
| PRN | 81.87 | 51 P | 34 49.70 | 0.5 | | | | 35 27.40 | | Z | 19s | 0.23um | | 4.7Msz |
| DLM | 81.96 | 51 P | 34 50.00 | 0.3 | OHR | 88.57 | 319 eP | 35 12.00 | -10.3X | | | LR | 07 00.00 | |
| RVR | 82.14 | 55 eP | 34 50.00 | -0.4 | | | i | 35 21.70 | | LNO | 94.81 | 42 ePc | 35 51.00 | 0.0 |
| BBTK | 82.19 | 312 iPd | 34 51.50 | 0.8 | ENN | 88.61 | 333 eP | 35 21.50 | -0.7 | CAF | 94.86 | 332 eP | 35 52.20 | 1.0 |
| VRI | 82.22 | 320 ePd | 34 51.50 | 0.9 | | 1.0s | 27.00nm | | 5.3mb | | 1.0s | 32.00nm | | 5.7mb |
| BW06 | 82.27 | 44 P | 34 51.10 | -0.2 | CEY | 88.70 | 325 eP | 35 22.50 | -0.3 | RLO | 95.07 | 42 eP | 35 52.10 | -0.2 |
| | 0.9s | 44.49nm | | 5.3mb | MEM | 88.71 | 333 P | 35 22.90 | 0.3 | VVO | 95.25 | 43 ePc | 35 52.80 | -0.3 |
| | | pP | 35 18.00 | 103kmX | VOY | 88.75 | 326 eP | 35 21.90 | -1.2 | LFF | 95.38 | 332 eP | 35 54.50 | 0.9 |
| PEC | 82.35 | 55 P | 34 51.50 | -0.1 | FVI | 88.86 | 327 P | 35 22.50 | -0.9 | | 1.0s | 37.60nm | | 5.8mb |
| DAU | 82.61 | 47 P | 34 53.80 | 0.6 | ALQ | 88.93 | 49 ePc | 35 24.00 | -0.3 | LPO | 95.42 | 332 eP | 35 54.50 | 0.7 |
| PLM | 82.85 | 55 eP | 34 54.00 | -0.4 | | 1.1s | 15.82nm | | 5.0mb | | 0.8s | 13.40nm | | 5.4mb |
| MLR | 82.88 | 320 ePd | 34 54.50 | 0.3 | OGA | 89.47 | 328 eP | 35 26.50 | -0.1 | FVM | 96.26 | 38 P | 35 56.80 | -0.9 |
| TPC | 83.00 | 54 eP | 34 54.00 | -1.0 | CDF | 89.92 | 331 P | 35 28.35 | -0.2 | BUL | 118.22 | 263 ePKP | 41 17.80 | 0.9 |
| AFR | 83.01 | 115 iP | 34 55.50 | 0.5 | FEL | 90.03 | 330 P | 35 28.75 | -0.3 | | | iSKP | 44 43.80 | |
| | 1.0s | 75.00nm | | 5.5mb | DMU | 90.24 | 341 eP | 35 35.00 | 5.2X | SLR | 120.78 | 257 iPKPc | 41 23.00 | 1.4 |
| KRA | 83.03 | 326 iPd | 34 55.40 | 0.7 | MOF | 90.42 | 330 P | 35 30.84 | 0.0 | | 1.0s | 18.00nm | | |
| | 1.0s | 136.00nm | | 5.8mb | BBS | 90.56 | 330 P | 35 31.36 | 0.0 | PRY | 121.90 | 256 iPKPd | 41 24.20 | 0.5 |
| | | e | 35 02.00 | | BSF | 90.58 | 331 P | 35 31.58 | 0.0 | | 1.0s | 20.00nm | | |
| TPT | 83.22 | 112 iP | 34 57.80 | 1.7 | VITF | 90.61 | 331 P | 35 31.39 | -0.1 | ARE | 147.56 | 70 iPKPc | 42 15.50 | 4.1X |
| | 1.0s | 55.00nm | | 5.4mb | HAU | 90.62 | 331 eP | 35 31.70 | 0.0 | ZOBO | 150.12 | 66 PKP | 42 16.20 | 0.5 |
| BAR | 83.35 | 56 eP | 34 57.00 | 0.3 | | 1.1s | 16.60nm | | 5.1mb | | | i | 42 22.00 | |
| VAH | 83.36 | 112 iP | 34 58.20 | 1.4 | DLE | 90.68 | 341 eP | 35 33.00 | 1.2 | | | eLR | 33 52.00 | |
| | 1.0s | 40.00nm | | 5.3mb | DCN | 90.83 | 341 eP | 35 35.00 | 2.5 | LPB | 150.29 | 66 PKP | 42 17.00 | 1.2 |
| SPC | 83.47 | 325 iP | 34 58.10 | 0.9 | SCH | 90.90 | 15 eP | 35 33.00 | 0.2 | | 1.0s | 160.00nm | | |
| RUV | 83.52 | 112 iP | 34 59.30 | 1.7 | VAI | 91.25 | 328 P | 35 33.90 | -0.6 | | | i | 42 23.00 | |
| | 1.0s | 65.00nm | | 5.5mb | SFI | 91.28 | 325 P | 35 36.00 | 1.3 | CNCB | 150.54 | 67 ePKP | 42 19.00 | 2.7X |
| TVO | 83.56 | 115 iP | 35 00.10 | 2.2 | ASS | 91.51 | 324 P | 35 35.80 | -0.1 | | | i | 42 24.00 | |
| | 1.0s | 85.00nm | | 5.6mb | MME | 91.63 | 326 P | 35 37.50 | 0.9 | CCH | 152.30 | 66 PKP | 42 29.50 | 10.9X |
| IKL | 83.63 | 309 iP | 34 57.70 | -0.3 | ORX | 91.78 | 329 P | 35 33.20 | -3.9X | | S.D. = 0.9 | on 320 of 345 obs. | | |
| DMK | 84.09 | 316 eP | 35 00.00 | -0.3 | BOB | 91.78 | 327 P | 35 37.10 | 0.0 | | | | | |
| KSP | 84.19 | 328 iPd | 35 01.40 | 0.8 | LOR | 92.23 | 332 iPd | 35 39.20 | 0.1 | | | | | |
| | 1.0s | 148.00nm | | 5.8mb | | 1.0s | 34.80nm | | 5.6mb | | | | | |
| LFK | 84.28 | 308 eP | 35 01.80 | 0.4 | LSD | 92.28 | 329 P | 35 39.36 | -0.3 | | | | | |
| JMB | 84.39 | 317 iP | 35 03.00 | 1.3 | LBF | 92.41 | 332 iPd | 35 39.80 | -0.1 | | | | | |
| GLA | 84.44 | 55 eP | 35 02.00 | -0.2 | | 1.0s | 26.00nm | | 5.5mb | | | | | |
| PSZ | 84.49 | 324 eP | 35 03.00 | 0.8 | LPG | 92.42 | 329 iPd | 35 40.60 | 0.2 | | | | | |
| CSS | 84.60 | 308 eP | 35 03.50 | 0.6 | | 0.6s | 23.80nm | | 5.6mb | | | | | |
| PVL | 84.64 | 318 iPc | 35 04.00 | 1.1 | RSP | 92.47 | 329 P | 35 39.80 | -0.6 | | | | | |
| DSI | 85.09 | 304 iPd | 35 06.00 | 0.6 | SSF | 92.54 | 332 iPd | 35 40.80 | 0.3 | ILIM | 0.17 | 223 iP | 00 32.90 | 0.8 |
| BRG | 85.21 | 329 iPd | 35 06.70 | 1.0 | | 1.0s | 50.80nm | | 5.8mb | | | | | |
| | 1.1s | 50.00nm | | 5.3mb | FLN | 92.65 | 335 eP | 35 41.40 | 0.5 | | | | | |
| | | i | 35 30.80 | | | 0.8s | 18.80nm | | 5.4mb | | | | | |
| | | e | 38 26.00 | | LDF | 92.66 | 335 eP | 35 41.30 | 0.3 | RDT | 0.40 | 23 Pn | 00 33.88 | -0.7 |
| PPCY | 85.30 | 308 eP | 35 05.50 | -0.9 | | 1.0s | 32.00nm | | 5.6mb | | | | | |
| CLL | 85.30 | 330 iPd | 35 05.40 | -0.7 | SMF | 92.74 | 332 iPd | 35 41.50 | 0.1 | | | | | |
| | 1.3s | 115.00nm | | 5.6mb | | 0.8s | 26.80nm | | 5.6mb | | | | | |
| | | i | 35 31.90 | | FIN | 92.78 | 328 P | 35 40.25 | -1.4 | | | | | |
| SRO | 85.34 | 325 eP | 35 07.30 | 0.9 | AVF | 92.82 | 332 iPd | 35 42.10 | 0.4 | PDB | 0.85 | 241 Pn | 00 36.91 | -0.9 |
| KDZ | 85.58 | 317 eP | 35 09.00 | 1.3 | | 0.8s | 44.30nm | | 5.8mb | | | | | |
| PRU | 85.59 | 328 Pd | 35 08.00 | 0.5 | RRL | 92.86 | 329 P | 35 42.12 | -0.2 | AUL | 0.90 | 204 iP | 00 37.48 | -0.9 |
| | 1.0s | 21.70nm | | 5.0mb | ROB | 92.86 | 328 P | 35 40.91 | -1.2 | NKA | 0.91 | 53 iP | 00 39.54 | 1.2 |
| | | e | 38 29.00 | | PZZ | 93.05 | 328 P | 35 41.90 | -1.1 | | | | | |
| ZST | 85.67 | 326 eP | 35 08.30 | 0.3 | GRR | 93.10 | 335 eP | 35 43.50 | 0.5 | AUH | 0.92 | 204 iP | 00 37.76 | -0.9 |
| ELL | 85.81 | 311 eP | 35 09.00 | -0.1 | | 1.0s | 57.60nm | | 5.8mb | | | | | |
| RZN | 85.96 | 317 iP | 35 09.00 | -0.8 | STV | 93.15 | 328 P | 35 42.52 | -0.9 | | | | | |
| PRNI | 86.05 | 303 eP | 35 10.00 | -0.3 | IMI | 93.15 | 328 P | 35 42.44 | -1.0 | CNPM | 1.02 | 132 iP | 00 38.76 | -0.7 |
| VTS | 86.24 | 319 iP | 35 11.00 | -0.1 | BGF | 93.21 | 332 eP | 35 43.90 | 0.3 | | | | | |
| MOX | 86.39 | 330 iP | 35 11.50 | 0.0 | | 1.0s | 38.00nm | | 5.7mb | | | | | |
| | 1.5s | 56.00nm | | 5.3mb | PLDF | 93.37 | 331 P | 35 44.80 | 0.4 | SPU | 1.03 | 18 iP | 00 39.13 | -0.6 |
| | | e | 35 38.00 | | SBF | 93.40 | 328 eP | 35 43.90 | -0.7 | | | | | |
| | | iPP | 38 35.00 | | | 1.0s | 28.00nm | | 5.5mb | CRP | 1.10 | 14 eP | 00 40.16 | -0.4 |
| MBH | 86.46 | 303 iPd | 35 12.50 | 0.3 | LPF | 93.46 | 335 eP | 35 45.30 | 0.6 | | | | | |
| HOF | 86.52 | 330 eP | 35 12.50 | 0.3 | | 1.0s | 56.00nm | | 5.8mb | SLKM | 1.28 | 75 iP | 00 41.15 | -1.2 |
| | 1.0s | 30.00nm | | 5.2mb | AGO | 93.51 | 332 P | 35 45.92 | 0.9 | | | | | |
| KHC | 86.64 | 328 iPd | 35 13.30 | 0.5 | MAF | 93.60 | 332 iPd | 35 46.10 | 0.7 | | | | | |
| | 1.0s | 15.50nm | | 4.9mb | | 1.2s | 65.40nm | | 5.8mb | CDD | 1.37 | 200 eP | 00 41.80 | -1.5 |
| GOL | 86.64 | 45 P | 35 13.70 | 0.4 | TCF | 93.69 | 332 iPd | 35 46.30 | 0.5 | SEW | 1.64 | 92 iP | 00 44.90 | -1.6 |
| GLD | 86.70 | 45 P | 35 14.30 | 0.8 | | 1.0s | 40.00nm | | 5.7mb | | | | | |
| | 1.3s | 114.94nm | | 5.7mb | CVF | 93.73 | 326 eP | 35 45.40 | -0.7 | SVW | 1.69 | 304 iPd | 00 45.90 | -1.3 |
| WIT | 86.71 | 334 eP | 35 14.00 | 1.0 | | 0.8s | 8.00nm | | 5.1mb | PMS | 1.87 | 55 iPc | 00 48.30 | -1.2 |
| ELO | 87.10 | 341 eP | 35 14.20 | -0.7 | PYM | 93.80 | 331 P | 35 46.96 | 0.5 | PTE | 1.94 | 69 iP | 00 48.56 | -1.7 |
| | 0.8s | 61.00nm | | 5.6mb | MEO | 93.95 | 45 iPc | 35 47.00 | -0.2 | | | | | |
| EBH | 87.23 | 341 eP | 35 17.10 | 1.6 | | | e | 36 15.30 | | | | | | |
| GRF | 87.27 | 330 eP | 35 16.40 | 0.6 | FRF | 93.99 | 328 eP | 35 46.70 | -0.5 | PWL | 2.26 | 71 iP | 00 52.22 | -2.3 |
| | 1.4s | 34.00nm | | 5.2mb | | 0.8s | 10.70nm | | 5.3mb | | | | | |
| WTS | 87.30 | 333 eP | 35 16.50 | 0.7 | LBL | 94.13 | 331 P | 35 48.88 | 1.1 | PME | 2.30 | 50 eP | 00 53.16 | -1.7 |
| | 1.0s | 17.00nm | | 5.0mb | LRG | 94.20 | 328 eP | 35 47.90 | -0.2 | | | | | |
| VAY | 87.43 | 318 eP | 35 16.70 | 0.0 | | 1.0s | 29.60nm | | 5.6mb | KNK | 2.41 | 58 iP | 00 54.42 | -2.1 |
| EBL | 87.51 | 340 eP | 35 18.40 | 1.6 | LMR | 94.23 | 328 eP | 35 48.00 | -0.3 | GHO | 2.43 | 48 Pn | 00 54.81 | -1.9 |
| EAB | 87.52 | 341 eP | 35 16.10 | -0.7 | | 0.8s | 10.70nm | | 5.3mb | KDC | 2.47 | 177 iPd | 00 54.10 | -3.0 |
| | | | | | | | | | | SML | 2.67 | 51 iP | 00 57.81 | -2.1 |

| | | | | | | |
|------|-------|-----|-----|----|-------|------|
| HIN | 3.10 | 84 | eP | 01 | 02.83 | -2.8 |
| FID | 3.14 | 77 | eP | 01 | 07.04 | 1.0 |
| TTA | 3.15 | 331 | iPd | 01 | 04.70 | -1.6 |
| VZW | 3.16 | 72 | iP | 01 | 03.41 | -3.0 |
| VLZ | 3.28 | 71 | eP | 01 | 05.14 | -2.8 |
| MID | 3.32 | 101 | eP | 01 | 06.40 | -2.0 |
| CVA | 3.48 | 81 | iP | 01 | 09.05 | -1.6 |
| KLU | 3.57 | 66 | iP | 01 | 09.45 | -2.5 |
| TOA | 3.70 | 56 | ePc | 01 | 12.00 | -1.7 |
| SGAM | 3.75 | 82 | iP | 01 | 12.46 | -1.8 |
| MCK | 3.96 | 25 | eP | 01 | 15.73 | -1.5 |
| RAGM | 4.01 | 84 | eP | 01 | 16.04 | -1.8 |
| LVY | 4.34 | 20 | eP | 01 | 20.63 | -1.7 |
| PAX | 4.44 | 48 | eP | 01 | 21.73 | -2.0 |
| NEA | 4.70 | 20 | eP | 01 | 25.06 | -2.2 |
| HDA | 5.00 | 30 | eP | 01 | 29.08 | -2.2 |
| CCB | 5.01 | 25 | eP | 01 | 28.87 | -2.5 |
| FBA | 5.23 | 24 | eP | 01 | 32.10 | -2.4 |
| GLM | 5.39 | 25 | eP | 01 | 34.23 | -2.5 |
| CTGM | 5.67 | 77 | eP | 01 | 39.10 | -1.5 |
| IMA | 5.90 | 356 | ePc | 01 | 41.70 | -2.1 |
| FYU | 7.21 | 25 | eP | 01 | 58.31 | -3.2 |
| DWY | 7.32 | 53 | P | 02 | 01.00 | -2.1 |
| HYT | 7.54 | 79 | P | 02 | 03.70 | -2.5 |
| INK | 11.59 | 37 | eP | 02 | 53.00 | -7.1 |
| YKA | 18.24 | 66 | P | 04 | 20.90 | -3.1 |
| MBC | 19.77 | 23 | eP | 04 | 38.00 | -2.1 |

0.5s 5.00nm 4.1mb
55 obs. associated

% FEB 01, 1989 11h 01m 23.22±7.14s
44.540 N ±26.5km 8.428 E ±41.3km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.1 (GEN).

| | | | | | | |
|-----|------|-----|---|----|-------|------|
| FIN | 0.37 | 206 | P | 01 | 30.85 | 0.1 |
| | | | S | 01 | 37.00 | |
| ROB | 0.47 | 239 | P | 01 | 32.72 | 0.0 |
| | | | S | 01 | 39.53 | |
| IMI | 0.74 | 212 | P | 01 | 37.66 | -0.1 |
| | | | S | 01 | 47.99 | |
| STV | 0.84 | 250 | P | 01 | 39.64 | 0.1 |
| PZZ | 0.95 | 268 | P | 01 | 41.40 | 0.0 |
| | | | S | 01 | 54.69 | |

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

& FEB 01, 1989 11h 22m 00.00s
36.040 N 117.790 W
DEPTH = 0.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<PAS-P>. ML 3.0 (PAS).

| | | | | | | |
|------|------|-----|-----|----|-------|------|
| CLC | 0.27 | 145 | iPc | 22 | 05.40 | 0.0 |
| ISA | 0.67 | 236 | iPd | 22 | 12.80 | -0.6 |
| | | | eS | 22 | 22.00 | |
| GSC | 1.09 | 132 | eP | 22 | 20.60 | -0.9 |
| ABL | 1.67 | 225 | eP | 22 | 30.80 | 0.0 |
| PKEM | 1.88 | 271 | eP | 22 | 34.50 | 0.8 |
| BCH | 2.05 | 246 | eP | 22 | 36.40 | 0.1 |
| TNP | 2.09 | 12 | eP | 22 | 36.00 | -0.9 |
| PHAM | 2.13 | 265 | eP | 22 | 37.50 | 0.2 |
| PEC | 2.20 | 166 | eP | 22 | 37.50 | -0.9 |
| PLM | 2.79 | 164 | eP | 22 | 46.00 | -0.9 |
| CMB | 2.88 | 315 | eP | 22 | 46.00 | -2.1 |
| KVN | 3.02 | 355 | eP | 22 | 49.50 | -0.6 |
| GLA | 3.86 | 140 | eP | 23 | 00.00 | -2.0 |

13 obs. associated

& FEB 01, 1989 12h 32m 37.76s
60.267 N 152.614 W
DEPTH = 108.1km
SOUTHERN ALASKA (2)
<AGS-P>.

| | | | | | | |
|------|------|-----|----|----|-------|------|
| ILIM | 0.25 | 223 | iP | 32 | 52.74 | 0.9 |
| | | | eS | 33 | 04.68 | |
| RDT | 0.32 | 18 | iP | 32 | 53.11 | -0.6 |
| | | | eS | 33 | 04.81 | |
| NNL | 0.70 | 108 | iP | 32 | 56.26 | 0.1 |
| HOM | 0.78 | 141 | eP | 32 | 56.73 | -0.2 |
| | | | eS | 33 | 12.14 | |
| NKA | 0.83 | 54 | iP | 32 | 58.66 | 1.3 |
| PDB | 0.93 | 239 | iP | 32 | 57.34 | -1.0 |
| SPU | 0.96 | 16 | iP | 32 | 58.15 | -0.6 |
| | | | eS | 33 | 13.84 | |
| AUL | 0.98 | 205 | iP | 32 | 58.08 | -0.8 |

| | | | | | | |
|------|-------|-----|-----|----|-------|------|
| AUE | 0.99 | 203 | iP | 32 | 57.93 | -1.0 |
| AUH | 1.00 | 205 | iP | 32 | 58.35 | -0.8 |
| BRLK | 1.00 | 119 | eP | 32 | 58.17 | -1.0 |
| | | | eS | 33 | 14.84 | |
| CNPM | 1.02 | 136 | iP | 32 | 58.62 | -0.7 |
| | | | eS | 33 | 14.88 | |
| CRP | 1.03 | 12 | iP | 32 | 59.18 | -0.4 |
| | | | eS | 33 | 15.92 | |
| SLKM | 1.21 | 77 | eP | 33 | 00.47 | -1.0 |
| | | | eS | 33 | 18.03 | |
| CDD | 1.44 | 202 | iP | 33 | 02.65 | -1.5 |
| SEW | 1.59 | 95 | iP | 33 | 04.27 | -1.6 |
| SVW | 1.70 | 301 | iPc | 33 | 05.70 | -1.7 |
| PMS | 1.79 | 55 | eP | 33 | 07.60 | -0.9 |
| PTE | 1.87 | 70 | iP | 33 | 07.94 | -1.5 |
| PWA | 1.93 | 43 | eP | 33 | 09.20 | -1.0 |
| PLRM | 2.16 | 50 | eP | 33 | 11.59 | -1.6 |
| PMR | 2.16 | 50 | eP | 33 | 11.20 | -2.0 |
| PME | 2.22 | 50 | eP | 33 | 12.61 | -1.4 |
| KNK | 2.34 | 59 | Pn | 33 | 13.81 | -1.8 |
| | | | eS | 33 | 41.80 | |
| GHO | 2.35 | 48 | Pn | 33 | 14.15 | -1.6 |
| KDC | 2.53 | 179 | iP | 33 | 15.25 | -2.8 |
| SML | 2.59 | 52 | iP | 33 | 17.27 | -1.8 |
| HIN | 3.04 | 85 | eP | 33 | 23.92 | -1.1 |
| VZW | 3.09 | 72 | eP | 33 | 22.90 | -2.8 |
| TTA | 3.13 | 330 | ePd | 33 | 24.30 | -1.9 |
| CVA | 3.42 | 82 | iP | 33 | 28.62 | -1.4 |
| KLU | 3.50 | 67 | iP | 33 | 28.84 | -2.4 |
| TOA | 3.62 | 57 | eP | 33 | 31.60 | -1.4 |
| SGAM | 3.68 | 83 | eP | 33 | 31.86 | -1.9 |
| MCK | 3.89 | 25 | eP | 33 | 35.00 | -1.5 |
| RAGM | 3.95 | 85 | eP | 33 | 35.62 | -1.8 |
| PAX | 4.36 | 48 | eP | 33 | 41.21 | -1.8 |
| | | | eS | 34 | 30.82 | |
| NEA | 4.63 | 19 | eP | 33 | 44.47 | -2.1 |
| HDA | 4.92 | 30 | eP | 33 | 48.48 | -2.1 |
| CCB | 4.93 | 25 | eP | 33 | 48.06 | -2.7 |
| FBA | 5.16 | 24 | eP | 33 | 51.70 | -2.2 |
| CTGM | 5.60 | 78 | eP | 33 | 58.80 | -1.4 |
| IMA | 5.84 | 356 | eP | 34 | 01.20 | -2.3 |
| FYU | 7.13 | 24 | eP | 34 | 17.88 | -3.0 |
| DWY | 7.24 | 53 | P | 34 | 21.10 | -1.4 |
| HYT | 7.47 | 79 | P | 34 | 23.70 | -2.1 |
| INK | 11.51 | 38 | eP | 35 | 16.00 | -3.7 |
| YKA | 18.17 | 66 | P | 36 | 42.30 | -1.7 |
| MBC | 19.70 | 23 | eP | 36 | 57.00 | -3.3 |

49 obs. associated

% FEB 01, 1989 13h 15m 53.82±0.93s
39.095 N ±8.0km 27.621 E ±9.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

| | | | | | | |
|-----|------|-----|-----|----|-------|------|
| Izm | 0.75 | 202 | ePg | 16 | 08.30 | -0.2 |
| | | | eSg | 16 | 19.80 | |
| DST | 0.93 | 57 | iPn | 16 | 12.20 | 0.5 |
| EZN | 1.24 | 306 | ePn | 16 | 17.40 | 0.5 |
| EDC | 1.26 | 8 | ePn | 16 | 16.40 | -0.9 |
| KCT | 1.28 | 26 | iPn | 16 | 17.70 | 0.0 |

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

FEB 01, 1989 15h 05m 53.83±1.54s
43.372 N ±9.6km 5.423 E ±8.8km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
MD 3.0 (STR).

| | | | | | | |
|------|------|-----|----|----|-------|------|
| GELF | 0.01 | 17 | Pg | 05 | 56.02 | 0.3 |
| TREF | 0.25 | 354 | Pg | 05 | 58.58 | -0.6 |
| PUYF | 0.26 | 52 | Pg | 05 | 58.62 | -0.7 |
| PRAF | 0.47 | 337 | Pg | 06 | 03.70 | 0.3 |
| TAVF | 0.52 | 62 | Pg | 06 | 04.14 | -0.3 |
| VILF | 0.52 | 24 | Pg | 06 | 03.74 | -0.7 |
| GANF | 0.72 | 29 | Pg | 06 | 08.54 | 0.6 |
| CALN | 1.13 | 70 | Pg | 06 | 15.53 | 0.4 |
| | | | Sg | 06 | 31.70 | |
| MVIF | 1.36 | 67 | Pn | 06 | 19.46 | 0.5 |
| | | | Sg | 06 | 38.15 | |
| TOUF | 1.47 | 64 | Pn | 06 | 20.97 | 0.4 |
| | | | Sg | 06 | 40.89 | |
| AURF | 1.48 | 69 | Pn | 06 | 20.80 | 0.3 |
| | | | Sg | 06 | 40.71 | |
| AUTN | 1.58 | 66 | Pn | 06 | 23.18 | 1.0 |
| | | | Sg | 06 | 43.96 | |
| SAOF | 1.66 | 68 | Pn | 06 | 23.01 | -0.2 |
| | | | Sg | 06 | 46.35 | |

CVF 2.65 106 Pn 06 36.29 -1.2
S.D. = 0.7 on 14 of 14 obs.

& FEB 01, 1989 15h 25m 58.86s
60.338 N 152.854 W
DEPTH = 119.0km
SOUTHERN ALASKA (2)
<AGS-P>.

| | | | | | | |
|------|------|-----|----|----|-------|------|
| ILIM | 0.26 | 192 | iP | 26 | 15.31 | 1.1 |
| | | | eS | 26 | 28.29 | |
| RDT | 0.32 | 43 | iP | 26 | 15.51 | 1.0 |
| NNL | 0.83 | 110 | eP | 26 | 19.66 | 0.2 |
| PDB | 0.87 | 231 | iP | 26 | 18.97 | -0.9 |
| | | | eS | 26 | 34.25 | |
| NKA | 0.90 | 62 | iP | 26 | 21.16 | 1.1 |
| SPU | 0.93 | 25 | eP | 26 | 19.92 | -0.6 |
| | | | eS | 26 | 36.15 | |
| CRP | 0.99 | 20 | eP | 26 | 20.90 | -0.3 |
| AUL | 1.00 | 197 | eP | 26 | 20.45 | -0.7 |
| AUE | 1.02 | 195 | eP | 26 | 20.30 | -0.9 |
| CNPM | 1.15 | 134 | eP | 26 | 21.70 | -1.0 |
| | | | eS | 26 | 39.86 | |
| SLKM | 1.32 | 81 | iP | 26 | 23.41 | -1.1 |
| CDD | 1.47 | 196 | eP | 26 | 24.88 | -1.4 |
| SVW | 1.56 | 301 | iP | 26 | 26.05 | -1.4 |
| SEW | 1.72 | 96 | eP | 26 | 27.84 | -1.3 |
| | | | eS | 26 | 50.09 | |
| PMS | 1.85 | 59 | eP | 26 | 29.91 | -1.0 |
| | | | eS | 26 | 53.76 | |
| PWA | 1.96 | 46 | eP | 26 | 32.07 | -0.1 |
| PTE | 1.96 | 73 | eP | 26 | 30.37 | -1.8 |
| PLRM | 2.21 | 54 | eP | 26 | 34.87 | -0.5 |
| PWL | 2.29 | 75 | eP | 26 | 34.12 | -2.3 |
| | | | eS | 27 | 01.64 | |
| GHO | 2.39 | 51 | eP | 26 | 36.04 | -1.8 |
| KNK | 2.41 | 61 | eP | 26 | 35.95 | -2.0 |
| | | | eS | 27 | 05.05 | |
| KDC | 2.61 | 176 | eP | 26 | 37.65 | -2.9 |
| SML | 2.65 | 54 | eP | 26 | 38.92 | -2.2 |
| VZW | 3.18 | 74 | eP | 26 | 45.56 | -2.7 |
| VLZ | 3.30 | 73 | eP | 26 | 47.37 | -2.4 |
| KLU | 3.58 | 68 | eP | 26 | 51.08 | -2.6 |

26 obs. associated

* FEB 01, 1989 15h 36m 35.46±1.85s
43.975 N ±10.9km 126.334 W ±13.9km
DEPTH = 10.0km (geophysicist)
OFF COAST OF OREGON (30)

| | | | | | | |
|------|------|----|-----|----|-------|------|
| GROR | 2.35 | 53 | eP | 37 | 14.86 | 0.1 |
| KMOR | 2.62 | 50 | eP | 37 | 17.95 | -0.6 |
| NLO | 2.94 | 43 | eP | 37 | 23.35 | 0.2 |
| GT2 | 3.13 | 66 | eP | 37 | 25.97 | 0.1 |
| PGO | 3.14 | 60 | eP | 37 | 26.29 | 0.4 |
| BMW | 3.33 | 40 | eP | 37 | 27.95 | -0.7 |
| RVW | 3.35 | 48 | eP | 37 | 29.14 | 0.3 |
| ONR | 3.42 | 31 | eP | 37 | 29.18 | -0.6 |
| VLMM | 3.44 | 61 | eP | 37 | 30.42 | 0.2 |
| TDH | 3.50 | 66 | eP | 37 | 31.06 | -0.1 |
| VBEM | 3.56 | 71 | eP | 37 | 31.69 | -0.4 |
| MTMW | 3.57 | 54 | eP | 37 | 32.28 | 0.2 |
| FL2 | 3.59 | 50 | eP | 37 | 32.90 | 0.5 |
| VLL | 3.64 | 64 | eP | 37 | 33.45 | 0.4 |
| SHW | 3.65 | 51 | eP | 37 | 33.89 | 0.5 |
| CZM | 3.66 | 46 | eP | 37 | 33.31 | 0.0 |
| ERK | 3.66 | 49 | eP | 37 | 33.61 | 0.1 |
| JLK | 3.67 | 52 | eP | 37 | 33.91 | 0.3 |
| YEL | 3.69 | 51 | eP | 37 | 34.36 | 0.4 |
| OBH | 3.77 | 26 | eP | 37 | 34.23 | -0.7 |
| PNT | 7.06 | 38 | iPd | 38 | 20.00 | -1.4 |
| | | | | | | |

01d 17h

eS 36 42.00
 LAT 7.60 261 e(P) 35 17.50 0.0
 DZM 20.11 146 iPd 38 04.50 4.2X
 OIS 20.87 223 eP 38 07.00 -1.0
 WB5 24.30 232 eP 38 42.10 0.2
 WRA 24.36 232 Pc 38 43.30 0.8
 0.8s 7.20nm 4.3mb
 ASPA 26.88 226 eP 39 06.30 0.2
 S.D. = 0.8 on 6 of 9 obs.

* FEB 01, 1989 19h 10m 46.88 ± 1.04s
 17.185 N ± 11.6km 61.935 W ± 7.6km
 DEPTH = 28.0 ± 6.6 km
 LEEWARD ISLANDS (92)
 ML 2.8 (FDF).

ANG 0.10 107 eP 10 51.82 -0.1
 eS 10 54.09
 MGH 0.54 210 eP 10 57.47 -0.3
 eS 11 04.01
 NEV 0.61 266 eP 10 58.86 -0.1
 eS 11 07.08
 SKI 0.78 281 eP 11 02.16 0.3
 eS 11 12.31
 SEG 0.88 152 eP 11 03.11 -0.1
 S 11 13.90
 PAG 1.17 168 eP 11 07.72 0.2
 S 11 22.90
 DEG 1.21 136 eP 11 07.60 -0.4
 S 11 22.50
 MGG 1.39 155 eP 11 11.30 0.7
 S.D. = 0.5 on 8 of 8 obs.

FEB 01, 1989 19h 34m 55.38 ± 0.69s
 33.039 N ± 9.5km 132.578 E ± 6.7km
 DEPTH = 53.1 ± 9.5 km
 4.3mb (3 obs.)
 SHIKOKU, JAPAN (236)

SHK 1.49 3 ePd 35 20.60 0.4
 0.8s 477.61nm
 TKSJ 1.55 52 P 35 20.50 -0.5
 KUMJ 1.56 252 iP+ 35 21.20 0.1
 S 35 42.00
 SHNJ 1.64 312 P 35 22.40 0.2
 eS 35 42.80
 YONJ 2.27 19 P 35 31.00 -0.1
 KAGJ 2.34 218 P 35 32.10 0.0
 WKYJ 2.78 64 P 35 38.10 -0.3
 TSRJ 3.76 48 eP 35 52.50 0.2
 eS 36 52.70
 IIDJ 5.04 60 eP 36 09.50 -0.9
 MTMJ 5.57 49 eP 36 19.30 1.5
 MAT 5.80 51 iPc 36 20.10 -0.9
 0.5s 10.56nm 4.5mb
 CHJJ 6.09 59 eP 36 25.20 0.2
 HFS 74.53 333 eP 46 28.70 -1.1
 0.5s 1.30nm 4.1mb
 NAO 75.14 334 P 46 32.40 -0.9
 0.7s 2.50nm 4.3mb
 KVN 82.87 48 eP 47 17.90 2.0
 S.D. = 1.0 on 15 of 15 obs.

FEB 01, 1989 19h 50m 45.94 ± 0.83s
 22.894 N ± 7.2km 120.606 E ± 7.1km
 DEPTH = 12.0 ± 5.4 km
 4.2mb (4 obs.)
 TAIWAN (244)

TWM1 0.18 248 iPc 50 51.00 0.8
 eS 50 54.20
 TWK 0.39 344 iPd 50 51.80 -2.2
 eS 50 56.00
 TWG 0.44 100 iPd 50 56.60 1.7
 eS 51 04.00
 TWF1 0.78 54 iPd 51 01.60 0.6
 ANP 2.43 20 eP 51 26.00 -0.1
 QZH 2.75 318 ePn 51 29.00 -1.6
 Z 12s 1.80um
 N 12s 2.70um
 S 52 16.00
 MCO 6.56 265 eP 52 28.90 4.3X
 GZH 6.69 273 P 52 30.50 4.0X
 S 53 48.40
 SSE 8.19 3 eP 52 49.30 2.0
 E 10s 1.11um
 iS 53 05.20

Lg 55 23.50
 NJ2 9.25 351 eP 53 00.00 -2.1
 N 12s 1.40um
 E 12s 1.40um
 S 54 46.20
 WHN 9.45 325 eP 53 00.50 -4.3X
 GYA 13.16 288 P 53 52.60 -2.8X
 XAN 15.11 320 P 54 26.40 5.5X
 TIY 16.36 336 eP 54 37.60 0.6
 S 57 45.00
 KMI 16.48 281 eP 54 44.00 5.2X
 CD2 17.00 302 eP 54 47.00 1.8
 BJI 17.50 349 eP 54 53.00 1.7
 HHC 19.46 339 eP 55 14.60 -0.9
 LZH 19.60 316 eP 55 16.50 -0.7
 1.5s 44.00nm 4.5mb
 Z 10s 0.60um

CHG 20.64 263 eP 55 31.20 3.1X
 CHTO 20.64 263 eP 55 28.90 0.8
 1.3s 8.58nm 4.0mb
 pP 55 38.40 37kmX
 CN2 21.23 10 eP 55 32.00 -1.9
 GTA 24.15 318 eP 56 02.30 -0.6
 SHL 26.31 282 eP 56 24.00 0.5
 GUN 31.70 286 P 57 13.90 1.8
 KKN 32.23 286 P 57 18.30 1.7
 DMN 32.38 286 P 57 18.60 0.6
 GKN 32.80 287 P 57 20.30 -1.2
 WB5 44.58 161 eP 58 58.00 -1.8
 WRA 44.64 161 Pd 58 58.90 -1.3
 0.6s 5.40nm 4.6mb
 ASPA 48.05 164 eP 59 25.10 -2.2
 MHI 53.99 299 eP 00 12.00 -0.3
 FBA 70.19 27 eP 02 01.70 1.5
 0.7s 0.50nm 3.8mb
 YKA 84.36 23 P 03 19.50 0.5
 S.D. = 1.5 on 27 of 34 obs.

? FEB 01, 1989 21h 45m 31.07 ± 10.02s
 42.719 N ± 12.9km 18.070 E ± 70.4km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)
 MD 2.3 (TTG).

BRY 0.39 62 ePg 45 38.50 -0.7
 iSg 45 47.00
 HCY 0.42 130 ePg 45 39.00 -0.6
 eSg 45 48.00
 NKY 0.69 82 ePg 45 45.00 0.2
 eSg 45 58.00
 BDV 0.71 128 ePg 45 45.00 -0.1
 eSg 45 59.00
 TTG 0.93 108 ePg 45 49.00 0.3
 eSg 46 07.50
 HVAR 1.28 292 i(Pg) 44 50.90 -63.8X
 iSg 45 06.20
 IVA 1.35 83 ePn 45 56.50 0.5
 eSn 46 20.80
 S.D. = 0.6 on 6 of 7 obs.

FEB 01, 1989 22h 22m 06.41 ± 0.63s
 22.941 N ± 7.0km 120.587 E ± 6.5km
 DEPTH = 10.0km (geophysicist)
 4.2mb (3 obs.)
 TAIWAN (244)

TWM1 0.19 232 iPc 22 11.60 1.0
 eS 22 15.00
 TWK 0.34 344 iPd 22 12.10 -1.3
 TWG 0.46 105 iPd 22 16.90 1.1
 eS 22 25.30
 TWF1 0.77 58 iPd 22 21.90 0.4
 eS 22 34.00
 TWD 1.46 39 ePc 22 33.90 1.1
 ANP 2.39 21 eP 22 50.60 4.3X
 QZH 2.70 318 ePn 22 50.00 -0.7
 Z 12s 1.80um
 N 12s 2.70um
 S 23 32.60
 GZH 6.67 273 eP 23 51.00 4.1X
 S 25 09.00
 SSE 8.14 4 eP 24 08.50 1.1
 E 13s 1.44um
 Lg 26 36.50
 NJ2 9.20 351 eP 24 23.20 1.1
 Z 10s 1.30um

WHN 9.40 325 eP 24 21.00 -3.8X
 eS 26 13.50
 GYA 13.13 288 eP 25 14.00 -1.8
 XAN 15.07 320 P 25 45.90 4.8X
 N 10s 1.23um

TIY 16.31 336 eP 25 57.20 0.1
 CD2 16.96 301 eP 26 07.00 1.5
 HHC 19.41 339 eP 26 36.00 0.3
 LZH 19.55 316 eP 26 36.00 -1.5
 2.0s 55.00nm 4.5mb
 BTO 19.74 336 eP 26 38.50 -0.9
 N 12s 0.50um
 CHG 20.63 263 eP 26 51.40 2.7
 CHTO 20.63 263 eP 26 50.80 2.1
 1.2s 5.56nm 3.8mb
 pP 27 01.10 41kmX
 GTA 24.10 318 eP 27 22.50 -0.7
 SHL 26.28 282 eP 27 43.80 -0.3
 WB5 44.63 161 eP 30 19.00 -2.0
 WRA 44.69 161 Pc 30 19.00 -2.4
 0.7s 2.80nm 4.3mb
 INK 74.58 22 eP 33 46.00 -0.9
 S.D. = 1.5 on 21 of 25 obs.

% FEB 01, 1989 22h 28m 00.01 ± 0.62s
 40.150 N ± 5.0km 29.278 E ± 5.3km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

YLV 0.42 10 iPg 28 08.80 0.2
 GBZT 0.65 11 ePg 28 13.00 0.0
 iSg 28 27.20
 KCT 0.71 278 iPg 28 13.80 -0.3
 iSg 28 25.80
 DST 0.74 223 iPg 28 13.30 -1.2
 eSg 28 23.30
 GPA 0.80 80 iPn 28 14.60 -1.0
 ISK 0.93 350 ePn 28 18.10 0.4
 BNT 1.06 282 iPn 28 20.80 0.8
 EDC 1.10 281 iPn 28 20.40 -0.3
 CTT 1.19 327 ePn 28 21.80 -0.3
 KHL 1.83 174 iPn 28 33.60 1.7
 DMK 2.03 326 ePn 28 35.00 0.4
 EZN 2.29 263 ePn 28 38.00 -0.4
 BBTK 2.69 95 eP 28 50.00 5.7X
 eS 29 30.00
 S.D. = 0.9 on 12 of 13 obs.

% FEB 01, 1989 22h 48m 20.19 ± 1.16s
 11.047 N ± 8.6km 61.738 W ± 19.8km
 DEPTH = 33.0km (normal)
 WINDWARD ISLANDS (95)

TCE 0.35 182 eP 48 28.44 -0.2
 eS 48 39.08
 TRN 0.52 140 eP 48 31.56 0.5
 eS 48 45.33
 TPP 0.78 159 eP 48 34.67 0.0
 eS 48 49.07
 TBH 0.87 130 eP 48 35.42 -0.5
 eS 48 52.79
 GRW 1.11 4 eP 48 39.45 -0.1
 eS 48 57.31
 S.D. = 0.6 on 5 of 5 obs.

? FEB 01, 1989 23h 18m 48.93 ± 2.91s
 45.721 N ± 22.9km 14.200 E ± 13.2km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)
 ML 1.7 (LJU).

CEY 0.16 83 iPg 18 51.90 -0.7
 0.2s 120.00nm
 iSg 18 54.30
 VOY 0.38 326 iPg 18 56.70 0.0
 eSg 19 03.60
 LJU 0.40 36 ePg 18 57.00 -0.1
 0.2s 80.00nm
 iSg 19 03.10
 PTJ 1.24 81 ePg 19 12.90 0.8
 eSg 19 29.70
 S.D. = 1.1 on 4 of 4 obs.

? FEB 01, 1989 23h 42m 02.86 ± 1.24s
 37.646 N ± 8.1km 3.309 W ± 12.1km
 DEPTH = 5.0km (geophysicist)
 SPAIN (377)

| | | | | | | | | | | | | | | | | | |
|-------------------------------------|--|--|--|--|--|------------------------------------|--|--|--|--|--|----------------------------------|--|--|--|--|--|
| MG 2.4 (MDD). | | | | | | PRI 86.19 50 ePc 27 45.80 0.5 | | | | | | BAL 0.71 319 iPc 43 30.30 0.0 | | | | | |
| AFC 0.43 206 ePg 42 11.20 -0.4 | | | | | | WDC 86.94 45 ePc 27 48.80 0.1 | | | | | | MUN 1.22 227 iS 43 39.60 | | | | | |
| EBAN 0.64 324 ePg 42 15.00 -0.7 | | | | | | ORV 87.16 46 e(P) 27 49.70 -0.1 | | | | | | iS 43 38.90 -0.1 | | | | | |
| EVI 1.18 32 ePg 42 23.20 | | | | | | CMB 87.24 48 ePc 27 50.10 -0.1 | | | | | | iS 43 54.50 | | | | | |
| EVI 1.18 32 ePg 42 25.50 0.2 | | | | | | FRI 87.25 49 eP 27 50.20 0.0 | | | | | | NWA 1.78 181 ePn 43 47.50 0.3 | | | | | |
| EHOR 1.55 277 ePg 42 40.50 | | | | | | MIN 87.46 46 e(P) 27 49.60 -1.8 | | | | | | eSn 44 11.00 | | | | | |
| EHOR 1.55 277 ePg 42 42.00 0.9 | | | | | | KVN 89.30 48 eP 27 59.90 -0.2 | | | | | | MRWA 2.21 330 eP 43 53.20 -0.3 | | | | | |
| EHOR 1.55 277 ePg 42 52.00 | | | | | | FBA 90.10 17 eP 28 01.70 -1.3 | | | | | | iS 44 23.20 | | | | | |
| S.D. = 1.2 on 4 of 4 obs. | | | | | | YKA 100.72 27 Pdiff 28 52.70 1.3 | | | | | | S.D. = 0.3 on 6 of 6 obs. | | | | | |
| ? FEB 02, 1989 00h 19m 22.96±1.17s | | | | | | MOX 143.92 336 e(PK) 34 36.00 -1.5 | | | | | | & FEB 02, 1989 04h 51m 54.40s | | | | | |
| 19.454 S ±29.9km 174.360 W ±24.9km | | | | | | KHC 144.27 332 iPKPc 34 37.60 -0.6 | | | | | | 33.940 N 118.860 W | | | | | |
| DEPTH = 33.0km (normal) | | | | | | 1.0s 18.00nm | | | | | | DEPTH = 8.0km | | | | | |
| 4.7mb (3 obs.) | | | | | | SKO 144.44 317 iPKPc 34 38.80 0.1 | | | | | | SOUTHERN CALIFORNIA (43) | | | | | |
| TONGA ISLANDS (173) | | | | | | DMU 145.26 356 iPKPc 34 39.60 -0.1 | | | | | | <PAS-P>. ML 3.8 (PAS). Felt | | | | | |
| AFI 6.04 25 eP 20 52.00 -0.5 | | | | | | OHR 145.28 316 ePKP 34 40.20 0.0 | | | | | | (III) at Agoura, Burbank, Conago | | | | | |
| DZM 18.14 258 iPc 23 39.00 4.8X | | | | | | DCN 145.84 356 ePKP 34 41.30 0.7 | | | | | | Park, Culver City, Duarte, | | | | | |
| WB5 48.13 260 eP 28 02.00 -0.1 | | | | | | KBA 145.88 330 ePKP 34 41.00 -0.2 | | | | | | Hawthorne, Lakewood, Lomita, | | | | | |
| WRA 48.14 260 Pd 28 01.70 -0.5 | | | | | | 0.5s 3.50nm | | | | | | Reseda, Santa Monica, Simi | | | | | |
| 1.2s 3.60nm 4.3mb | | | | | | MEM 145.93 341 PKP 34 42.20 1.4 | | | | | | Valley and Whittier. | | | | | |
| TNP 78.42 43 P 31 22.00 -0.4 | | | | | | SNF 146.54 342 PKP 34 44.00 2.2X | | | | | | PAS 0.61 70 iPd 52 05.40 -1.2 | | | | | |
| 0.9s 9.11nm 4.8mb | | | | | | WLF 146.71 340 iPKPc 34 45.00 2.9X | | | | | | CIS 0.65 144 iPd 52 06.50 -1.1 | | | | | |
| KVN 78.44 41 P 31 22.30 -0.1 | | | | | | DOU 146.82 342 iPKPc 34 44.90 2.6X | | | | | | MWC 0.72 67 iPd 52 07.60 -1.4 | | | | | |
| ALO 84.10 50 P 31 52.00 -0.3 | | | | | | 0.6s 31.80nm | | | | | | ABL 0.96 342 eP 52 11.70 -1.2 | | | | | |
| FBA 86.53 11 P 32 05.30 1.9 | | | | | | CDF 147.39 337 ePKP 34 46.40 3.0X | | | | | | SCI 0.99 165 iPc 52 12.20 -1.2 | | | | | |
| 0.7s 6.40nm 5.0mb | | | | | | BNG 147.74 247 iPKPd 34 48.60 3.7X | | | | | | SYP 1.10 303 iPd 52 14.40 -0.9 | | | | | |
| KSP 147.56 347 ePKP 39 07.50 5.0X | | | | | | 0.8s 11.00nm | | | | | | SBB 1.14 49 iPd 52 14.50 -1.4 | | | | | |
| BRG 147.96 350 e(PK) 39 11.80 8.7X | | | | | | BSF 148.05 337 ePKP 34 48.00 3.5X | | | | | | RVR 1.24 87 iPc 52 15.40 -2.1 | | | | | |
| SPC 148.10 342 ePKP 39 20.70 17.0X | | | | | | HAU 148.06 338 ePKP 34 48.30 3.9X | | | | | | PEC 1.41 91 iPc 52 18.00 -2.5 | | | | | |
| MLR 149.07 332 ePKP 39 11.00 5.7X | | | | | | FLN 149.36 346 ePKP 34 50.90 4.5X | | | | | | BLP 1.42 296 eP 52 19.00 -1.5 | | | | | |
| KHC 149.71 350 PKP 39 13.50 7.5X | | | | | | LDF 149.44 346 ePKP 34 51.00 4.5X | | | | | | BCH 1.60 321 eP 52 22.30 -0.9 | | | | | |
| BNG 160.47 222 ePKPc 39 13.30 -7.8X | | | | | | LOR 149.55 340 iPKPc 34 51.80 5.1X | | | | | | ISA 1.75 10 ePd 52 24.60 -0.7 | | | | | |
| 0.9s 9.00nm | | | | | | LBF 149.76 340 ePKP 34 52.30 5.2X | | | | | | PLM 1.77 109 eP 52 22.80 -2.8 | | | | | |
| S.D. = 1.0 on 7 of 14 obs. | | | | | | GRR 149.80 347 ePKP 34 52.10 5.1X | | | | | | CPE 1.81 125 eP 52 22.50 -3.6 | | | | | |
| * FEB 02, 1989 00h 54m 27.05±1.38s | | | | | | SSR 149.84 340 iPKPc 34 52.60 5.4X | | | | | | GSC 2.17 51 iPd 52 30.70 -0.7 | | | | | |
| 26.375 S ±7.7km 27.228 E ±13.4km | | | | | | LPG 150.00 335 ePKP 34 53.80 5.9X | | | | | | BAR 2.22 124 ePc 52 28.60 -3.5 | | | | | |
| DEPTH = 5.0km (geophysicist) | | | | | | SMF 150.10 339 ePKP 34 53.60 6.0X | | | | | | PHAM 2.28 327 eP 52 31.50 -1.4 | | | | | |
| REPUBLIC OF SOUTH AFRICA (584) | | | | | | AVF 150.13 340 ePKP 34 53.10 5.5X | | | | | | PKEM 2.35 335 eP 52 33.00 -0.9 | | | | | |
| MG 3.6 (BUL). | | | | | | LPF 150.18 347 iPKPc 34 53.10 5.5X | | | | | | AMR 3.14 38 eP 52 44.00 -1.1 | | | | | |
| PRY 0.59 158 iPc 54 39.00 0.1 | | | | | | BGF 150.50 341 ePKP 34 54.10 5.9X | | | | | | YMT3 3.47 34 eP 52 48.80 -1.1 | | | | | |
| S 54 45.00 | | | | | | TCF 150.94 341 iPKPc 34 55.00 6.1 | | | | | | | | | | | |

02d 06h

| | | | | |
|------|--------|----------|----------|-------|
| SSE | 0.4s | 3.00nm | 4.2mb | |
| | 41.61 | 331 P | 00 10.50 | -0.7 |
| | 0.7s | 155.00nm | | 5.9mb |
| PSI | 44.96 | 279 ePd | 00 39.50 | 0.9 |
| CHG | 49.65 | 300 eP | 01 14.90 | -0.3 |
| CHTO | 49.65 | 300 eP | 01 15.00 | -0.2 |
| | 0.7s | 3.65nm | | 4.4mb |
| CD2 | 51.94 | 316 eP | 01 32.40 | 0.1 |
| GTA | 59.62 | 322 Pd | 02 27.10 | -0.2 |
| GUN | 64.22 | 304 Pd | 02 59.10 | 0.6 |
| | 0.8s | 38.00nm | | 5.4mb |
| PKI | 64.49 | 304 Pd | 03 00.30 | 0.1 |
| | 0.9s | 14.00nm | | 4.9mb |
| KKN | 64.67 | 304 Pd | 03 01.70 | 0.5 |
| | 0.8s | 37.00nm | | 5.4mb |
| DMN | 64.75 | 304 Pd | 03 02.40 | 0.6 |
| | 0.9s | 41.00nm | | 5.4mb |
| GKN | 65.28 | 304 Pd | 03 05.50 | 0.5 |
| | 0.8s | 36.00nm | | 5.4mb |
| G8A | 67.90 | 287 Pc | 03 21.40 | -0.2 |
| | 0.6s | 3.20nm | | 4.4mb |
| WMO | 69.62 | 320 P | 03 31.70 | -0.1 |
| SVW | 80.87 | 26 eP | 04 36.20 | 0.9 |
| PMR | 83.91 | 26 eP | 04 50.10 | -0.7 |
| | 0.5s | 6.10nm | | 4.8mb |
| TOA | 85.41 | 26 eP | 04 59.20 | 0.8 |
| FBA | 85.70 | 24 eP | 04 58.60 | -1.2 |
| INK | 92.06 | 22 eP | 05 29.00 | -0.7 |
| KIC | 148.15 | 274 PKP | 12 09.00 | 4.7X |
| TIC | 148.42 | 275 PKP | 12 09.70 | 5.0X |
| LIC | 148.44 | 274 PKP | 12 09.80 | 5.0X |

S.D. = 0.7 on 27 of 32 obs.

* FEB 02, 1989 06h 57m 31.42±1.32s
17.602 N ± 8.2km 60.748 W ± 11.8km
DEPTH = 33.0km (normal)

LEEWARD ISLANDS (92)
ML 3.7 (FDF).

| | | | | |
|------|-------|--------|----------|------|
| ANG | 1.12 | 247 eP | 57 50.30 | -0.6 |
| SEG | 1.40 | 211 eP | 57 54.20 | -0.6 |
| MGG | 1.76 | 198 eP | 58 00.90 | 0.8 |
| PAG | 1.80 | 210 eP | 58 00.60 | -0.1 |
| | | S | 58 24.00 | |
| NEV | 1.80 | 255 eP | 58 00.82 | 0.1 |
| | | eS | 58 27.15 | |
| SKI | 1.92 | 262 eP | 58 02.60 | 0.2 |
| | | eS | 58 39.38 | |
| SKDB | 1.98 | 264 eP | 58 03.45 | 0.2 |
| BSK | 2.01 | 263 eP | 58 03.91 | 0.2 |
| | | eS | 58 33.48 | |
| BBL | 2.18 | 199 eP | 58 06.00 | -0.1 |
| YKA | 58.17 | 334 P | 07 24.10 | -0.1 |

S.D. = 0.5 on 10 of 10 obs.

FEB 02, 1989 07h 05m 21.25±8.60s
17.646 N ± 4.6.2km 60.666 W ± 58.5km
DEPTH = 33.0km (normal)

LEEWARD ISLANDS (92)
ML 3.4 (FDF).

| | | | | |
|------|------|---------|----------|------|
| ANG | 1.21 | 246 eP | 05 41.20 | -0.8 |
| | | eS | 06 04.76 | |
| SEG | 1.47 | 213 ePd | 05 45.28 | -0.5 |
| MGH | 1.74 | 238 eP | 05 50.15 | 0.4 |
| | | eS | 06 16.31 | |
| MGG | 1.83 | 200 eP | 05 50.77 | -0.1 |
| PAG | 1.88 | 211 eP | 05 51.62 | -0.1 |
| | | S | 06 15.00 | |
| NEV | 1.89 | 255 eP | 05 52.97 | 1.2 |
| SKI | 2.00 | 261 eP | 05 52.45 | -1.0 |
| | | eS | 06 20.28 | |
| SKDB | 2.06 | 263 eP | 05 54.51 | 0.3 |
| BSK | 2.10 | 262 eP | 05 54.70 | 0.0 |
| BBL | 2.25 | 200 eP | 05 57.30 | 0.4 |

S.D. = 0.7 on 10 of 10 obs.

FEB 02, 1989 07h 14m 32.86±0.56s
31.144 S ± 4.9km 117.270 E ± 6.5km
DEPTH = 10.0km (geophysicist)

WESTERN AUSTRALIA (590)

| | | | | |
|-----|------|---------|----------|------|
| WA4 | 0.54 | 356 eP | 14 44.00 | 0.2 |
| | | eS | 14 50.00 | |
| KLB | 0.61 | 137 iPc | 14 45.20 | 0.0 |
| | | eS | 14 53.00 | |
| BAL | 0.72 | 318 iPc | 14 47.00 | -0.1 |

| | | | | |
|------|------|---------|----------|-------|
| MUN | 1.23 | 227 iPd | 14 56.00 | -0.1 |
| | | iS | 15 11.00 | |
| NWAO | 1.78 | 181 iPn | 15 04.10 | 0.3 |
| | | eSn | 15 28.10 | |
| MRWA | 2.21 | 330 eP | 15 10.10 | -0.1 |
| | | eS | 15 40.00 | |
| COOL | 3.34 | 87 eP | 15 26.00 | -0.2 |
| | | eS | 16 03.00 | |
| WARB | 9.60 | 61 eP | 16 45.00 | -9.1X |
| | | eS | 18 25.00 | |

S.D. = 0.2 on 7 of 8 obs.

% FEB 02, 1989 09h 05m 56.20±1.18s
44.104 N ± 8.3km 8.096 E ± 9.2km
DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)
ML 2.0 (GEN).

| | | | | |
|-----|------|-------|----------|------|
| FIN | 0.13 | 37 P | 05 59.35 | -0.1 |
| | | S | 06 01.28 | |
| IMI | 0.24 | 218 P | 06 01.55 | 0.1 |
| | | S | 06 05.15 | |
| ROB | 0.25 | 320 P | 06 01.63 | 0.1 |
| | | S | 06 05.18 | |
| STV | 0.57 | 284 P | 06 07.38 | -0.5 |
| | | S | 06 15.84 | |
| PZZ | 0.82 | 300 P | 06 12.56 | 0.4 |

S.D. = 0.5 on 5 of 5 obs.

% FEB 02, 1989 09h 40m 23.73±0.91s
44.034 N ± 7.1km 7.921 E ± 7.3km
DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)
ML 2.1 (GEN).

| | | | | |
|-----|------|-------|----------|------|
| IMI | 0.13 | 191 P | 40 26.93 | 0.1 |
| | | S | 40 28.92 | |
| ROB | 0.26 | 352 P | 40 29.51 | 0.2 |
| | | S | 40 32.89 | |
| FIN | 0.27 | 50 P | 40 29.36 | -0.1 |
| | | S | 40 32.62 | |
| STV | 0.48 | 296 P | 40 33.42 | -0.1 |
| PZZ | 0.75 | 309 P | 40 38.49 | -0.1 |
| | | S | 40 48.45 | |

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

* FEB 02, 1989 09h 52m 32.35±1.10s
21.051 S ± 8.7km 68.210 W ± 16.2km
DEPTH = 154.7 ± 8.4 km
4.8mb (2 obs.)

CHILE-BOLIVIA BORDER REGION (124)

| | | | | |
|------|--------|----------|----------|-------|
| HJA | 3.38 | 130 ePd | 53 25.20 | 0.0 |
| CCH | 4.14 | 29 iPc | 53 35.70 | 0.1 |
| CNCB | 4.22 | 3 P | 53 37.30 | 0.4 |
| LPB | 4.50 | 1 iPc | 53 41.00 | 0.6 |
| ZOBO | 4.76 | 1 iPc | 53 43.00 | -1.0 |
| ARE | 5.52 | 325 eP | 53 47.00 | -6.9X |
| | | iS | 54 45.00 | |
| ITB1 | 13.23 | 108 eP | 55 41.00 | 5.6X |
| ATB | 23.53 | 44 Pd | 57 28.90 | -0.8 |
| KIC | 67.95 | 74 P | 03 16.90 | 0.0 |
| | 0.8s | 34.00nm | | 5.2mb |
| SPA | 69.08 | 180 e(P) | 03 22.90 | -0.3 |
| | 1.0s | 7.50nm | | 4.5mb |
| KUK | 71.82 | 76 eP | 03 41.00 | 0.6 |
| YKA | 90.98 | 340 P | 05 19.50 | 0.1 |
| GBA | 146.43 | 97 PKP | 11 56.00 | 0.2 |

S.D. = 0.6 on 11 of 13 obs.

% FEB 02, 1989 10h 55m 10.19±2.64s
33.380 S ± 8.7km 71.796 W ± 23.3km
DEPTH = 33.0km (normal)

NEAR COAST OF CENTRAL CHILE (135)

| | | | | |
|------|------|---------|----------|------|
| LCCH | 0.21 | 117 iPc | 55 17.10 | 0.2 |
| LNV | 0.66 | 151 iPd | 55 22.80 | -0.2 |
| TACH | 0.77 | 111 iP | 55 24.20 | -0.4 |
| ROCH | 0.77 | 58 iPd | 55 24.60 | -0.3 |
| | | iS | 55 35.20 | |
| SAN | 0.95 | 95 iPd | 55 27.50 | 0.2 |
| | | iS | 55 35.30 | |
| PEL | 0.96 | 76 iPd | 55 27.10 | -0.3 |
| PCH | 1.10 | 103 iPd | 55 29.30 | -0.1 |
| CHCH | 1.10 | 120 iP | 55 29.80 | 0.4 |
| | | iS | 55 44.00 | |

| | | | | |
|------|------|--------|----------|-----|
| JACH | 1.23 | 56 iPc | 55 31.50 | 0.3 |
| FCH | 1.26 | 88 iPd | 55 32.00 | 0.1 |
| | | iS | 55 48.00 | |

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

? FEB 02, 1989 15h 30m 14.60±8.51s
9.420 S ± 85.0km 127.142 E ± 22.2km
DEPTH = 209.8 ± 39.2 km
3.7mb (2 obs.)

TIMOR SEA (290)

| | | | | |
|------|-------|--------|----------|-------|
| MTN | 5.19 | 131 eP | 31 32.00 | -0.3 |
| | | eS | 32 33.00 | |
| KNA | 6.49 | 166 eP | 31 49.00 | 0.0 |
| | | eS | 33 06.00 | |
| WB5 | 12.53 | 147 eP | 33 05.80 | -1.1 |
| | | eS | 35 25.20 | |
| WRA | 12.56 | 147 Pc | 33 09.10 | 1.7 |
| | 0.5s | 2.10nm | | 3.8mb |
| MBL | 13.63 | 210 eP | 33 21.00 | 0.2 |
| | | eS | 35 43.00 | |
| WARD | 16.68 | 182 eP | 33 57.50 | -0.6 |
| | 0.4s | 1.00nm | | 3.6mb |
| | | | 36 59.00 | |

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

& FEB 02, 1989 15h 40m 46.41s
45.930 N 57.540 W
DEPTH = 18.0km (geophysicist)

NORTH ATLANTIC OCEAN (402)
<OTT-P>. mbLg 3.9 (NEIS).

| | | | | |
|------|-------|---------|----------|------|
| GBN | 2.83 | 261 P | 41 33.00 | 1.4 |
| STJ | 3.69 | 62 eP | 41 49.00 | 5.2 |
| | 0.6s | 19.00nm | | |
| POB | 7.05 | 266 eP | 42 29.00 | -2.2 |
| | | eS | 43 42.10 | |
| EMM | 7.11 | 264 eP | 42 30.30 | -1.8 |
| | | eS | 43 42.80 | |
| GSO | 7.14 | 298 P | 42 30.51 | -2.0 |
| | | S | 43 45.41 | |
| HNME | 7.27 | 276 eP | 42 31.70 | -2.7 |
| | | eS | 43 46.80 | |
| EBN | 7.52 | 286 ePd | 42 34.71 | -3.0 |
| | | S | 43 53.61 | |
| AGM | 8.01 | 282 eP | 42 40.90 | -3.7 |
| | | eS | 44 05.90 | |
| MNO | 8.80 | 306 P | 42 51.53 | -4.1 |
| | | S | 44 26.33 | |
| BNH | 9.77 | 267 P | 43 04.60 | -4.4 |
| SBO | 10.09 | 272 P | 43 09.51 | -3.9 |
| | | S | 44 55.62 | |
| SCH | 10.67 | 330 eP | 43 17.30 | -4.0 |
| TRO | 11.83 | 278 ePd | 43 32.23 | -4.9 |
| | | S | 45 35.87 | |
| RSNY | 12.06 | 270 P | 43 35.40 | -4.8 |
| PTN | 12.37 | 270 P | 43 39.90 | -4.5 |
| GAC | 12.52 | 275 eP | 43 42.00 | -4.4 |
| JAQ | 14.10 | 311 P | 44 03.70 | -3.5 |
| | | S | 46 29.41 | |
| FRB | 18.89 | 345 eP | 45 06.00 | -1.9 |
| YKA | 35.86 | 318 P | 47 48.40 | 1.8 |

19 obs. associated

? FEB 02, 1989 17h 27m 01.34±1.08s
44.601 N ± 20.4km 148.505 E ± 14.9km
DEPTH = 33.0km (normal)

4.6mb (4 obs.)

KURIL ISLANDS (221)

| | | | | |
|------|-------|--------|----------|-------|
| KUSJ | 3.13 | 243 P | 27 48.30 | -1.1X |
| | | S | 28 20.50 | |
| ASAJ | 4.23 | 266 eP | 28 07.90 | 2.8 |
| HOOJ | 4.40 | 242 P | 28 08.40 | 0.9 |
| | | eS | 28 55.80 | |
| MRRJ | 5.83 | 251 eP | 28 28.40 | 0.8 |
| | | eS | 29 33.20 | |
| OFUJ | 7.51 | 225 P | 28 49.10 | -2.2X |
| | | S | 30 03.90 | |
| LZH | 34.72 | 272 eP | 33 50.00 | -0.4 |
| CHG | 48.45 | 254 eP | 35 42.60 | 0.0 |
| CHTO | 48.45 | 254 eP | 35 42.00 | -0.6 |
| | 0.7s | 2.06nm | | 4.3mb |
| GUN | 51.94 | 273 P | 36 08.20 | -1.4 |
| KKN | 52.44 | 274 P | 36 12.40 | -0.8 |
| | 0.6s | 9.00nm | | 4.9mb |
| PKI | 52.47 | 273 P | 36 12.00 | -1.6 |

DMN 52.67 274 P 36 14.00 -1.0
0.6s 15.00nm 5.1mb
GKN 52.77 274 P 36 14.50 -1.1
YKA 54.55 34 P 36 30.40 2.4
HYB 63.77 269 eP 37 30.00 -2.5X
WB5 65.45 195 eP 37 42.60 -0.5
WRA 65.52 195 P 37 44.00 0.5
0.4s 0.30nm 3.7mb
S.D. = 1.4 on 14 of 17 obs.

? FEB 02, 1989 18h 12m 11.79±4.89s
33.695 S ±15.7km 69.308 W ±34.8km
DEPTH = 10.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

FCH 0.90 294 iP 12 29.50 0.2
IS 12 47.00
PCH 1.01 274 iPd 12 31.00 0.0
IS 12 52.70
CHCH 1.14 258 iP 12 32.50 -0.7
IS 12 55.70
SAN 1.16 282 eP 12 33.50 0.1
PEL 1.28 295 iPc 12 35.30 -0.2
IS 13 00.00
TACH 1.36 271 eP 12 36.00 -0.8
IS 13 02.50
JACH 1.48 313 iPc 12 38.10 -0.4
IS 13 05.00
LNV 1.77 261 eP 12 43.00 0.4
IS 13 14.00
LCCH 1.90 276 iP 12 46.00 1.5
IS 13 13.10
S.D. = 0.8 on 9 of 9 obs.

* FEB 02, 1989 18h 24m 06.83±2.16s
36.380 N ±19.2km 21.109 E ±9.0km
DEPTH = 73.4 ±20.5 km
3.8mb (1 obs.)
SOUTHERN GREECE (368)

VLS 1.84 347 ePb 24 38.00 1.1
NEO 3.37 29 ePn 24 59.00 0.9
LIT 3.87 16 eP 25 06.60 1.4
KZN 3.95 7 ePn 25 07.80 1.4
PAIG 4.08 29 eP 25 07.50 -0.6
PLG 4.39 24 ePn 25 12.20 -0.3
GRG 4.68 12 eP 25 16.80 0.2
OHR 4.73 357 ePn 25 14.50 -2.8
SOH 4.77 21 eP 25 18.20 0.4
ATN 4.84 293 P 25 19.60 0.8
KNT 4.97 16 eP 25 21.10 0.4
MEU 5.01 280 P 25 22.50 1.2
eSn 26 16.10
VAY 5.06 13 ePn 25 21.50 -0.4
SRS 5.11 22 eP 25 22.00 -0.6
BRT 5.43 327 P 25 26.40 -0.6
eSn 26 27.10
SKO 5.59 3 ePn 25 28.00 -1.2
MGR 5.76 312 P 25 30.80 -0.8
USI 6.72 293 P 25 43.30 -1.5
NAO 25.33 348 P 29 30.30 2.3
0.8s 3.10nm 3.8mb
GKN 53.57 80 P 33 22.00 -0.6
DMN 54.11 80 P 33 26.40 -0.4
PKI 54.37 80 P 33 28.60 -0.2
S.D. = 1.2 on 22 of 22 obs.

& FEB 02, 1989 19h 00m 23.85s
59.852 N 153.382 W
DEPTH = 119.2km
SOUTHERN ALASKA (2)
<AGS-P>

ILIM 0.31 43 iP 00 40.43 1.0
PDB 0.41 261 iP 00 40.57 -0.9
AUH 0.49 184 eP 00 41.78 -0.2
eS 00 55.06
AUE 0.49 179 eP 00 41.51 -0.4
eS 00 54.94
RED 0.65 28 iP 00 42.23 -0.8
eS 00 57.46
RDT 0.87 34 iP 00 44.21 -0.8
IS 00 59.74
HOM 0.90 102 eP 00 44.73 -0.4
CDD 0.93 188 iP 00 44.62 -0.9
eS 01 00.88
NNL 1.07 79 iP 00 47.05 0.3

IS 01 04.38
CNPM 1.14 106 iP 00 46.74 -0.8
BRLK 1.26 93 eP 00 47.86 -1.1
eS 01 06.57
NKA 1.39 49 eP 00 51.12 0.8
IS 01 10.75
SPU 1.49 26 iP 00 50.52 -1.0
CRP 1.54 23 eP 00 51.48 -0.8
eS 01 14.17
SVW 1.68 320 iPd 00 51.70 -2.1
SLKM 1.71 66 eP 00 52.94 -1.2
IS 01 15.36
SEW 1.99 81 eP 00 56.27 -1.3
KDC 2.16 167 iPd 00 57.10 -2.6
PMS 2.35 52 iP 01 00.68 -1.6
PTE 2.39 63 eP 01 00.89 -1.8
PWA 2.49 42 iPd 01 00.60 -3.5
PWL 2.70 66 iP 01 05.42 -1.5
IS 01 35.66
PLRM 2.72 48 eP 01 04.66 -2.4
PMR 2.72 48 eP 01 05.20 -1.9
PME 2.78 48 eP 01 05.63 -2.2
KNK 2.89 55 eP 01 06.48 -2.8
IS 01 40.47
GHO 2.91 47 eP 01 06.91 -2.8
SML 3.16 49 iP 01 09.94 -3.0
TTA 3.34 339 eP 01 12.50 -2.9
HIN 3.49 78 eP 01 15.54 -1.8
VZW 3.59 67 eP 01 17.00 -1.8
VLZ 3.72 67 eP 01 18.80 -1.6
KLU 4.02 63 iP 01 21.62 -3.0
SGAM 4.14 77 eP 01 23.87 -2.2
TOA 4.18 54 eP 01 24.30 -2.4
RAGM 4.39 79 eP 01 28.00 -1.6
PAX 4.92 47 eP 01 43.39 6.5
CCB 5.47 26 eP 01 44.05 -0.2
FBA 5.69 25 eP 01 43.90 -3.4
IMA 6.24 359 eP 01 52.30 -2.7
MBC 20.23 23 eP 04 50.00 -0.9
41 obs. associated

% FEB 02, 1989 19h 17m 13.98±0.82s
46.867 N ±8.9km 1.505 E ±6.2km
DEPTH = 13.7 ±5.3 km
FRANCE (538)
ML 2.2 (LDG)
LSF 0.62 178 Pg 17 26.00 -0.1
Sg 17 34.20
TCF 0.76 140 Pg 17 28.30 -0.2
Sg 17 37.70
BGF 0.97 108 Pg 17 32.70 0.6
Sg 17 44.60
MAF 0.98 131 Pg 17 33.20 1.0
Sg 17 45.90
MFF 1.17 257 Pg 17 35.80 0.4
Sg 17 51.90
AVF 1.27 93 Pg 17 37.50 0.3
Sg 17 53.50
SSF 1.38 81 Pg 17 38.50 -0.3
Sg 17 56.20
SMF 1.62 97 Pg 17 43.30 1.1
Sg 18 03.60
LOR 1.66 75 Pg 17 42.90 0.1
Sg 18 04.20
LBF 1.70 85 Pg 17 43.80 0.4
Sg 18 05.80
S.D. = 0.6 on 10 of 10 obs.

* FEB 02, 1989 22h 24m 41.35±1.52s
17.641 N ±12.9km 60.768 W ±12.8km
DEPTH = 26.4 ±8.1 km
LEEWARD ISLANDS (92)
ML 3.7 (FDF)

CPB 1.01 270 eP 24 59.05 -0.7
eS 25 12.17
ANG 1.12 245 eP 25 00.72 -0.7
SEG 1.42 210 eP 25 05.08 -0.5
S 25 24.70
MGH 1.66 237 eP 25 09.53 0.4
eS 25 32.68
MGG 1.79 197 eP 25 11.02 0.0
S 25 34.90
NEV 1.79 254 eP 25 12.06 1.0
eS 25 34.21
DOG 1.80 207 eP 25 10.89 -0.2

PAG 1.82 209 eP 25 11.18 -0.4
S 25 36.00
SKI 1.91 261 eP 25 12.85 0.2
BSK 2.00 262 eP 25 14.06 0.1
BBL 2.21 198 eP 25 17.78 0.7
YKA 58.13 334 P 34 34.80 0.0
S.D. = 0.6 on 12 of 12 obs.

% FEB 02, 1989 23h 08m 06.57±1.00s
40.253 N ±9.8km 20.381 E ±8.1km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)

LSK 0.20 122 iPd 08 11.40 0.4
TPE 0.29 278 iPnc 08 13.00 0.4
BERA 0.56 324 ePn 08 19.70 1.9
VLO 0.71 288 ePn 08 19.40 -1.1
TIR 1.16 340 ePn 08 28.70 0.5
KKS 1.82 1 ePn 08 38.00 -0.1
SDA 1.88 340 e(Pn) 08 38.00 -1.0
BCI 2.12 354 ePn 08 41.60 -0.9
S.D. = 1.2 on 8 of 8 obs.

FEB 03, 1989 00h 45m 54.50±0.16s
17.787 S ±7.3km 178.549 W ±3.9km
DEPTH = 545.8km (4 depth phases)
5.2mb (27 obs.)

FIJI ISLANDS REGION (181)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 19C
Centroid Location:
Origin Time 00:46: 1.3 1.1
Lat 18.27S 0.12 Lon 178.76W 0.09
Dep 572.0 5.3 Half-duration 1.8
Moment Tensor: Scale 10¹⁷Nm
Mrr=-0.25 0.07 Mtt=-0.24 0.13
Mff=0.49 0.10 Mrt=-0.16 0.10
Mrf=-1.07 0.09 Mtf=-0.29 0.09
Principal Axes:
T Val= 1.26 Plg=35 Azm= 83
N -0.15 18 186
P -1.11 50 299
Best Double Couple: Mo=1.2+10¹⁷Nm
NP1: Strike=121 Dip=20 Slip=-156
NP2: 9 82 -71

AFI 7.57 60 eP 47 46.00 -2.8
(S) 49 09.00
DZM 14.74 251 iPd 49 01.30 0.0
IS 51 40.00
AFR 27.41 94 iP 50 57.60 -0.7
0.5s 60.00nm 5.5mb
PAE 27.58 94 iP 50 59.20 -0.6
0.5s 45.00nm 5.3mb
PPT 27.60 94 iP 50 59.50 -0.4
0.5s 50.00nm 5.4mb
PPN 27.74 94 iP 51 00.60 -0.5
0.5s 15.00nm 4.9mb
TBI 27.76 106 iP 51 01.70 0.4
0.6s 20.00nm 4.9mb
TVO 27.89 95 iP 51 02.20 -0.3
0.5s 40.00nm 5.3mb
BRS 28.09 245 P 51 04.50 0.3
PMO 29.52 89 iP 51 16.50 -0.1
0.5s 30.00nm 5.2mb
COO 29.72 239 iPd 51 18.90 0.6
VAH 29.73 90 iP 51 18.00 -0.5
0.5s 15.00nm 4.9mb
TPT 29.79 89 iP 51 18.60 -0.3
0.5s 30.00nm 5.2mb
RUV 29.98 90 iP 51 19.90 -0.6
0.5s 45.00nm 5.3mb
RMO 31.43 248 iPd 51 32.90 0.1
0.6s 43.00nm 5.2mb
CNB 33.39 232 eP 51 49.00 -0.3
CAN 33.67 232 eP 51 52.00 0.4
BWA 33.78 234 eP 51 51.20 -1.4
PMG 34.31 279 iPd 51 57.50 0.4
TOO 37.14 231 iPc 52 21.70 1.4
TAU 38.24 222 eP 52 30.00 0.9
STK 38.57 241 iPd 52 32.90 0.9
0.3s 31.00nm 5.4mb
BFD 39.20 233 eP 52 25.00 -12.1X
OIS 39.55 259 iPc 52 38.90 -1.1
RKT 41.06 105 iP 52 52.80 0.6
1.4s 135.00nm 5.3mb

| | | | | | | | | | | | | | | | | | | | | | |
|---------|-------|-----|----------|----|-------|-------|------|--------|-----|---------|----|-------|------|------|-------------------------------------|--------|--------|------|-------|-------|------|
| 03d 00h | | | | | | | | | | | | | | | | | | | | | |
| WB5 | 44.50 | 260 | iPd | 53 | 17.80 | -1.5 | MLR | 145.66 | 329 | ePKPc | 04 | 33.50 | 1.2 | | | | e | 04 | 44.50 | | |
| WRA | 44.52 | 259 | Pd | 53 | 16.90 | -2.6 | IKL | 146.13 | 309 | iPKP | 04 | 34.00 | 0.9 | | ORX | 151.71 | 350 | PKP | 04 | 47.78 | 6.2X |
| | 0.4s | | 10.20nm | | | 4.7mb | PRU | 146.19 | 345 | ePKP | 04 | 33.00 | 0.2 | | LSO | 152.00 | 351 | PKP | 04 | 49.42 | 7.3X |
| ASPA | 44.70 | 254 | iPd | 53 | 20.10 | -0.7 | | | | e | 04 | 34.60 | | | LPG | 152.02 | 352 | ePKP | 04 | 49.50 | 7.3X |
| | 0.7s | | 278.00nm | | | 5.9mb | MOX | 146.22 | 348 | ePKP | 04 | 33.00 | 0.2 | | RSP | 152.29 | 351 | PKP | 04 | 50.03 | 7.6X |
| | | | eScP | 57 | 54.20 | | | 1.4s | | 39.00nm | | | | | BNI | 152.47 | 352 | PKP | 04 | 50.00 | 7.3X |
| | | | eS | 59 | 14.80 | | PSZ | 146.37 | 337 | ePKP | 04 | 35.00 | 1.7 | | RJF | 152.56 | 360 | ePKP | 04 | 49.80 | 7.2X |
| | | | iS | 02 | 19.20 | | ENN | 146.90 | 355 | ePKP | 04 | 36.50 | 2.6X | | RRL | 152.58 | 352 | PKP | 04 | 50.85 | 7.9X |
| GUA | 47.63 | 308 | eP | 53 | 41.70 | -1.5 | | 0.8s | | 12.00nm | | | | ARV | 152.59 | 342 | PKP | 04 | 43.50 | 0.8 | |
| | 0.9s | | 410.08nm | | | 6.0mb | UCC | 146.98 | 357 | PKPd | 04 | 37.50 | 3.5X | LFF | 152.92 | 1 | ePKP | 04 | 50.60 | 7.5X | |
| MTN | 48.67 | 268 | eP | 53 | 49.00 | -2.1 | SRO | 147.02 | 339 | ePKP | 04 | 36.20 | 2.1X | CAF | 152.94 | 359 | ePKP | 04 | 51.00 | 7.8X | |
| FORR | 49.91 | 244 | iPd | 53 | 58.90 | -1.1 | MEM | 147.05 | 355 | PKPc | 04 | 36.80 | 2.7X | PZZ | 152.94 | 351 | PKP | 04 | 50.13 | 6.8X | |
| | 0.4s | | 80.00nm | | | 5.6mb | ZST | 147.09 | 341 | iPKP | 04 | 37.60 | 3.3X | ROB | 153.03 | 350 | PKP | 04 | 50.65 | 7.3X | |
| WARB | 51.20 | 250 | iPd | 54 | 03.10 | -6.6X | | | | e | 06 | 47.80 | | FIN | 153.05 | 349 | PKP | 04 | 50.44 | 7.1X | |
| | 0.3s | | 12.00nm | | | 4.8mb | CTT | 147.17 | 321 | ePKP | 04 | 36.00 | 1.4 | ASS | 153.06 | 342 | PKP | 04 | 50.00 | 6.5X | |
| MBL | 57.88 | 256 | iPd | 54 | 55.20 | -1.4 | GRF | 147.21 | 348 | ePKP | 04 | 37.30 | 2.8X | STV | 153.16 | 351 | PKP | 04 | 49.93 | 6.3X | |
| | 0.4s | | 29.00nm | | | 5.0mb | KHC | 147.23 | 345 | ePKP | 04 | 34.30 | -0.2 | LPO | 153.18 | 0 | ePKP | 04 | 51.50 | 8.0X | |
| NANU | 61.63 | 254 | iPd | 55 | 20.90 | -0.5 | | | | i | 04 | 38.00 | | IMI | 153.40 | 350 | PKP | 04 | 51.57 | 7.7X | |
| | 0.4s | | 30.00nm | | | 5.1mb | SNF | 147.27 | 357 | PKP | 04 | 37.50 | 3.0X | SBF | 153.52 | 350 | ePKP | 04 | 52.10 | 8.1X | |
| SYP | 76.18 | 47 | eP | 56 | 51.00 | 2.8 | BZS | 147.57 | 333 | ePKP | 04 | 35.00 | -0.1 | BNG | 158.64 | 234 | iPKPc | 04 | 51.10 | -0.2 | |
| GCC | 76.22 | 43 | eP | 56 | 48.10 | -0.1 | PVL | 147.57 | 326 | iPKPd | 04 | 42.00 | 6.8X | | 0.9s | | 9.00nm | | | | |
| PRS | 76.24 | 44 | eP | 56 | 48.60 | 0.2 | DOU | 147.67 | 356 | PKPc | 04 | 38.50 | 3.4X | | | | ic | 05 | 30.50 | | |
| BCH | 76.47 | 46 | P | 56 | 50.00 | 0.2 | KCT | 147.75 | 320 | iPKP | 04 | 39.50 | 3.9X | LIC | 166.88 | 150 | PKP | 04 | 59.30 | 0.3 | |
| PRI | 76.60 | 45 | eP | 56 | 50.60 | 0.1 | BCK | 147.79 | 313 | iPKP | 04 | 37.70 | 1.8 | KIC | 167.13 | 151 | PKP | 04 | 59.40 | 0.2 | |
| MHC | 76.63 | 43 | eP | 56 | 50.70 | 0.0 | DST | 147.95 | 318 | iPKP | 04 | 39.90 | 3.9X | TIC | 167.25 | 150 | PKP | 04 | 59.50 | 0.2 | |
| PAS | 77.24 | 48 | eP | 56 | 53.00 | -0.8 | WLF | 147.98 | 354 | PKPc | 04 | 36.20 | 0.6 | | S.D. = 0.9 on 105 of 176 obs. | | | | | | |
| MWC | 77.36 | 48 | eP | 56 | 54.00 | -0.7 | | | | ed | 04 | 39.80 | | | ? FEB 03, 1989 01h 00m 55.46± 4.58s | | | | | | |
| BAR | 77.55 | 50 | eP | 56 | 56.00 | 0.4 | EDC | 147.99 | 320 | iPKP | 04 | 38.40 | 2.4X | | 17.729 N ± 28.5km 60.596 W ± 29.8km | | | | | | |
| FRI | 77.71 | 45 | eP | 56 | 56.00 | -0.3 | GW | 148.49 | 352 | PKP | 04 | 36.44 | -0.1 | | DEPTH = 33.0km (normal) | | | | | | |
| RVR | 77.72 | 48 | eP | 56 | 56.00 | -0.4 | KDZ | 148.60 | 324 | iPKPd | 04 | 41.00 | 4.1X | | LEEWARD ISLANDS (92) | | | | | | |
| PLM | 77.76 | 49 | eP | 56 | 56.00 | -0.9 | PGB | 148.65 | 327 | iPKPd | 04 | 41.00 | 4.0X | | ML 3.6 (FDF). | | | | | | |
| SBB | 77.76 | 47 | eP | 56 | 57.00 | 0.3 | FUR | 148.66 | 347 | ePKP | 04 | 41.30 | 4.5X | | | | | | | | |
| CMB | 77.84 | 43 | eP | 56 | 56.60 | -0.5 | BEO | 148.70 | 334 | i(PKP) | 04 | 41.50 | 4.6X | CPB | 1.18 | 266 | eP | 01 | 14.88 | -0.8 | |
| | | | ePP | 58 | 56.40 | | BHG | 148.71 | 345 | iPKPc | 04 | 41.50 | 4.6X | | | | eS | 01 | 26.54 | | |
| WDC | 77.94 | 40 | eP | 56 | 57.20 | -0.2 | RZN | 148.96 | 325 | iPKPd | 04 | 42.00 | 4.3X | ANG | 1.31 | 244 | eP | 01 | 16.63 | -0.9 | |
| | | | ePP | 58 | 57.20 | | FLN | 149.06 | 2 | ePKP | 04 | 41.30 | 4.0X | | | | eS | 01 | 31.95 | | |
| ORV | 77.99 | 42 | eP | 56 | 57.30 | -0.5 | CD | 149.09 | 352 | PKP | 04 | 37.83 | 0.3 | SFG | 1.58 | 201 | eP | 01 | 21.40 | 0.0 | |
| CLC | 78.52 | 46 | eP | 57 | 01.00 | 0.3 | VTS | 149.12 | 328 | iPKP | 04 | 42.00 | 4.2X | SEG | 1.58 | 214 | eP | 01 | 20.90 | -0.6 | |
| TPC | 78.72 | 49 | eP | 57 | 03.00 | 1.2 | KBA | 149.19 | 344 | ePKP | 04 | 40.50 | 2.7X | | | | S | 01 | 39.00 | | |
| GSC | 78.80 | 47 | eP | 57 | 02.00 | -0.2 | | 0.5s | | 13.80nm | | | | MGH | 1.85 | 237 | eP | 01 | 25.11 | -0.3 | |
| GLA | 79.08 | 50 | eP | 57 | 04.00 | 0.3 | | | | ic | 04 | 41.80 | | MGG | 1.93 | 201 | eP | 01 | 27.21 | 0.7 | |
| KVN | 79.90 | 43 | P | 57 | 07.70 | -0.3 | | | | i | 04 | 50.10 | | | | | S | 01 | 51.50 | | |
| | | | pP | 59 | 05.20 | 545km | LDF | 149.25 | 2 | ePKP | 04 | 41.80 | 4.2X | NEV | 1.98 | 253 | eP | 01 | 29.48 | 2.2 | |
| TNP | 79.97 | 45 | P | 57 | 08.60 | 0.2 | GRR | 149.42 | 3 | ePKP | 04 | 42.40 | 4.5X | PAG | 1.98 | 212 | eP | 01 | 27.28 | -0.1 | |
| | 1.0s | | 22.00nm | | | 4.5mb | VITF | 149.43 | 354 | PKP | 04 | 38.61 | 0.8 | | | | S | 01 | 52.00 | | |
| | | | pP | 59 | 05.80 | 543km | PTJ | 149.48 | 340 | ePKP | 04 | 42.60 | 4.4X | SKI | 2.08 | 259 | eP | 01 | 28.68 | -0.1 | |
| BJI | 83.60 | 315 | eP | 57 | 26.50 | 0.0 | FEL | 149.51 | 351 | PKP | 04 | 38.69 | 0.5 | | | | eS | 01 | 54.47 | | |
| PNT | 84.71 | 34 | eP | 57 | 32.00 | 0.2 | MMB | 149.56 | 326 | iPKPd | 04 | 43.00 | 4.6X | SKDB | 2.14 | 261 | eP | 01 | 29.57 | 0.1 | |
| | 0.8s | | 13.00nm | | | 4.6mb | HAU | 149.60 | 353 | ePKP | 04 | 42.60 | 4.4X | BSK | 2.17 | 260 | eP | 01 | 29.86 | -0.2 | |
| FBA | 85.72 | 13 | P | 57 | 34.70 | -1.6 | MOF | 149.66 | 352 | PKP | 04 | 39.01 | 0.6 | BBL | 2.35 | 201 | eP | 01 | 32.90 | 0.3 | |
| | 0.5s | | 9.71nm | | | 4.8mb | RBL | 149.71 | 343 | PKP | 04 | 43.00 | 4.5X | FDF | 3.03 | 190 | eP | 01 | 41.82 | -0.4 | |
| | | | pP | 59 | 35.00 | 551km | BSF | 149.72 | 353 | PKP | 04 | 39.12 | 0.6 | | | | S | 02 | 15.10 | | |
| ALO | 86.12 | 52 | ePc | 57 | 39.00 | -0.1 | LPF | 149.77 | 3 | ePKP | 04 | 43.20 | 4.8X | MVM | 3.17 | 185 | eP | 01 | 44.23 | 0.0 | |
| | 1.0s | | 11.50nm | | | 4.6mb | FVI | 149.78 | 344 | PKP | 04 | 42.50 | 4.1X | | | | S | 02 | 19.20 | | |
| LRM | 86.97 | 40 | eP | 57 | 43.00 | 0.0 | LJU | 149.80 | 342 | e(PKP) | 04 | 38.50 | -0.1 | BIM | 3.23 | 188 | eP | 01 | 45.14 | 0.1 | |
| BW06 | 87.36 | 43 | P | 57 | 44.70 | -0.2 | | | | i | 04 | 43.50 | | | S.D. = 0.8 on 15 of 15 obs. | | | | | | |
| | | | pP | 59 | 44.50 | 545km | AKSR | 149.94 | 287 | iPKPd | 04 | 45.50 | 6.1X | | FEB 03, 1989 01h 16m 41.28± 0.82s | | | | | | |
| KMI | 87.66 | 297 | Pd | 57 | 47.50 | 0.9 | BBS | 149.99 | 352 | PKP | 04 | 39.98 | 1.1 | | 17.649 N ± 6.0km 60.729 W ± 7.0km | | | | | | |
| CHG | 88.83 | 290 | iPd | 57 | 52.70 | 0.8 | VOY | 150.00 | 343 | e(PKP) | 04 | 43.80 | 4.8X | | DEPTH = 30.2 ± 4.0 km | | | | | | |
| | 1.0s | | 25.00nm | | | 5.1mb | VBY | 150.06 | 340 | ePKP | 04 | 39.20 | 0.3 | | LEEWARD ISLANDS (92) | | | | | | |
| CHTO | 88.83 | 290 | iPd | 57 | 53.00 | 1.1 | | | | i | 04 | 44.40 | | | ML 3.8 (FDF). | | | | | | |
| | 1.2s | | 41.32nm | | | 5.2mb | CEY | 150.11 | 342 | e(PKP) | 04 | 43.50 | 4.4X | CPB | 1.05 | 270 | eP | 16 | 59.46 | -0.4 | |
| GLD | 89.00 | 48 | P | 57 | 52.50 | 0.0 | AKUR | 150.14 | 287 | ePKP | 04 | 44.70 | 5.0X | | | | eS | 17 | 11.30 | | |
| | 1.5s | | 111 | | | | | | | | | | | | | | | | | | |

BIM 3.13 186 eP 17 29.84 0.1
YKA 58.14 334 P 26 34.10 -0.1
MBC 65.71 347 eP 27 25.00 0.2
S.D. = 0.3 on 16 of 17 obs.

FEB 03, 1989 03h 39m 34.42 ± 1.85s
3.425 S ± 8.7km 130.882 E ± 9.7km
DEPTH = 47.8 ± 17.9 km
5.0mb (13 obs.)

CERAM (272)

AAI 2.69 264 eP 40 18.50 2.2
eS 41 15.00
MTN 9.36 179 iPd 41 47.50 -2.2
eS 43 32.00

KNA 12.42 190 eP 42 26.50 -4.7X
0.3s 22.00nm 5.6mb
eS 44 41.00

WB5 16.70 169 eP 43 22.10 -4.7X
eS 46 18.70
WRA 16.76 169 P 43 28.00 0.5
0.7s 12.30nm 4.1mb

PMG 17.22 111 eP 43 32.50 -0.8
QIS 19.03 154 eP 43 54.00 -1.5
eS 47 15.00

ASPA 20.33 172 iPd 44 09.60 0.1
0.6s 90.00nm 5.3mb
eS 44 17.20

MBL 20.65 210 iPd 44 10.80 -1.9
CTA 22.34 139 eP 44 31.00 1.3
WARB 22.99 190 eP 44 31.00 -5.0X
0.4s 8.00nm 4.5mb

NANU 24.15 217 iPd 44 46.60 -0.7
0.7s 30.00nm 4.9mb
FORR 27.40 185 eP 45 17.00 -0.5
0.4s 9.00nm 4.8mb

STK 30.04 162 eP 45 42.00 0.7
IPM 30.87 285 ePd 45 49.80 1.0
PSI 32.52 280 ePc 46 03.00 -0.2
BWA 34.89 154 eP 46 26.10 2.6

CAN 35.90 154 eP 46 34.30 2.2
GYA 37.83 323 P 46 49.00 0.5
CHG 38.43 306 eP 46 54.60 1.1
CHTO 38.43 306 iPd 46 54.10 0.6
0.8s 5.67nm 4.5mb

XAN 42.63 333 Pd 47 09.90 63kmX
TIY 44.37 339 P 47 27.40 -0.6
BJI 45.31 344 eP 47 41.30 -0.8
GTA 51.33 329 Pd 47 49.00 -0.4

GUN 53.34 309 Pd 48 35.30 -1.0
0.7s 30.00nm 5.4mb
PKI 53.55 308 Pc 48 51.50 -0.4
0.7s 8.00nm 4.9mb

KKN 53.76 308 Pc 48 52.60 -0.8
0.8s 17.00nm 5.1mb
DMN 53.81 308 Pc 48 54.80 -0.3
0.8s 27.00nm 5.3mb

GKN 54.36 308 Pc 48 54.10 -0.6
0.7s 28.00nm 5.4mb
GBA 55.65 289 Pc 49 06.80 -1.6
0.6s 2.00nm 4.3mb

WMO 60.93 325 iPd 49 45.00 0.0
MHI 77.15 308 eP 51 27.00 1.8
INK 95.24 22 eP 52 54.00 0.1
CNCB 152.59 138 PKP 59 32.00 10.4X

CCH 153.36 141 (PKP) 59 02.00 -20.3X
S.D. = 1.3 on 31 of 36 obs.

& FEB 03, 1989 04h 15m 17.50s
38.167 N 112.496 W
DEPTH = 1.0km

UTAH (478)
<SLC-P>. MD 3.1 (SLC). Felt
(111) at Beaver.

MSU 0.43 36 eP 15 25.50 -0.6
DLM 1.86 253 eP 15 49.70 -1.3
DUG 2.04 353 eP 15 51.80 -1.7
SRG 2.05 263 eP 15 52.40 -1.3

PRN 2.16 250 eP 15 53.90 -1.4
DAU 2.44 23 eP 16 01.00 1.5
WRN 2.45 267 eP 15 57.50 -2.0
OCS 2.73 263 eP 16 01.90 -1.6

WMZ 3.01 177 P 16 11.50 4.1
SPRG 3.02 242 eP 16 05.80 -1.7
KRNA 3.10 263 eP 16 06.60 -2.1
NOP 3.56 236 eP 16 13.90 -1.2
TNP 3.72 270 eP 16 15.40 -2.2
KVN 4.48 283 eP 16 26.00 -2.3
GOL 5.76 72 e(P) 16 46.00 -0.5
ALQ 5.83 122 eP 16 45.70 -1.7
PLM 5.97 218 e(P) 16 51.00 1.6
17 obs. associated

? FEB 03, 1989 05h 19m 10.14 ± 7.12s
32.427 S ± 47.0km 71.768 W ± 33.9km
DEPTH = 21.1 ± 7.9 km
NEAR COAST OF CENTRAL CHILE (135)

ROCH 0.84 131 iPd 19 26.00 -0.1
iS 19 36.40
JACH 1.02 105 iPd 19 29.10 0.0
iS 19 42.60

LCCH 1.06 171 iPd 19 29.50 -0.1
iS 19 42.50
PEL 1.16 128 iPd 19 31.10 -0.1
iS 19 47.50

SAN 1.38 138 eP 19 34.00 -0.3
iS 19 51.50
TACH 1.41 151 iPd 19 34.50 -0.2
iS 19 51.90

FCH 1.53 126 iPd 19 37.00 0.2
iS 19 56.00
CHCH 1.77 148 eP 19 40.50 0.6
iS 20 03.00

S.D. = 0.4 on 8 of 8 obs.

* FEB 03, 1989 05h 54m 37.41 ± 1.28s
18.538 N ± 7.6km 145.968 E ± 10.8km
DEPTH = 120.2 ± 11.9 km
5.0mb (9 obs.)

MARIANA ISLANDS (216)

PJG 5.03 192 eP 55 52.50 0.6
GUMO 5.03 192 eP 55 52.50 0.6
1.2s 477.78nm 5.6mb

GUA 5.07 192 eP 55 51.70 -0.8
0.5s 112.68nm 5.4mb
eS 56 50.30

PMG 27.79 177 e(P) 00 17.00 -0.1
WB5 39.84 197 eP 02 01.00 0.3
WRA 39.91 197 Pd 02 00.90 -0.3
0.5s 8.00nm 4.8mb

ASPA 43.57 196 iPd 02 30.50 -0.6
0.6s 7.00nm 4.6mb
CHTO 44.44 278 eP 02 40.00 1.7

RMQ 44.84 176 eP 02 40.00 -1.2
DZM 45.06 153 iPd 02 42.80 -0.3
MBL 47.03 214 eP 02 58.90 0.3

WARB 48.26 203 eP 03 03.00 -5.1X
0.3s 10.00nm 5.1mb
FORR 52.02 200 eP 03 37.00 0.4
0.4s 15.00nm 5.3mb

BWA 52.72 177 eP 03 41.50 -0.3
PKI 55.98 291 P 04 05.00 -1.2
69.42 23 eP 05 33.00 -0.9

MBC 73.24 14 eP 05 55.00 -1.6
YKA 78.01 28 P 06 23.40 -0.3
YKC 78.07 28 eP 06 23.20 -0.8

ARN 80.91 54 P 06 40.60 0.7
CMB 81.59 53 eP 06 43.80 0.4
FRI 82.41 54 eP 06 48.00 0.4

KVN 83.00 51 P 06 51.30 0.4
TNP 83.96 52 P 06 56.00 0.2
0.6s 2.16nm 4.2mb

LRM 84.68 43 eP 06 59.50 0.2
PEC 85.36 56 P 07 03.00 0.4
FFC 87.09 33 iPd 07 09.70 -0.9
1.1s 23.00nm 5.1mb

GOL 91.90 47 P 07 34.80 1.0
ALQ 93.16 52 eP 07 40.00 0.4
1.1s 3.80nm 4.6mb

ZOBO 147.42 91 PKP 14 11.00 3.5X
LPB 147.48 92 PKP 14 09.00 1.6
CNCB 147.63 92 PKP 14 10.00 2.2X
S.D. = 0.8 on 29 of 32 obs.

? FEB 03, 1989 06h 14m 40.64 ± 1.05s
24.921 N ± 10.4km 121.748 E ± 46.3km
DEPTH = 33.0km (normol)

4.4mb (1 obs.)
TAIWAN (244)

TWC 0.32 164 iPd 14 47.20 -1.5
eS 14 54.20
ANP 0.34 321 iPd 14 56.00 7.1X
TWD 0.85 189 ePd 14 56.00 -0.1

SSE 6.17 356 eP 16 11.50 -0.3
i 16 48.00
eLg 18 12.50

WB5 46.19 163 eP 23 04.90 0.6
WRA 46.25 164 Pd 23 06.00 1.3
0.6s 3.00nm 4.4mb

S.D. = 1.5 on 5 of 6 obs.

% FEB 03, 1989 06h 38m 09.02 ± 2.22s
40.205 N ± 18.9km 28.984 E ± 10.1km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

YLV 0.47 39 iPg 38 18.80 0.2
KCT 0.48 275 iPg 38 18.80 0.0
iSg 38 25.30

GBZT 0.68 31 ePg 38 22.20 -0.3
iSg 38 35.50
BNT 0.83 281 iPg 38 25.40 0.4

ISK 0.86 4 ePg 38 25.60 0.0
eSg 38 37.30
EDC 0.87 280 iPg 38 25.40 -0.3

CTT 1.03 336 ePg 38 28.50 0.0
eSg 38 42.30
S.D. = 0.3 on 7 of 7 obs.

* FEB 03, 1989 06h 42m 32.15 ± 1.31s
14.166 N ± 8.8km 120.934 E ± 17.4km
DEPTH = 151.2 ± 13.2 km
4.9mb (9 obs.)

LUZON, PHILIPPINE ISLANDS (249)

CVP 3.62 14 eP 43 48.00 19.9X
eS 44 09.00
PIP 4.15 356 iPd 43 34.30 -0.8
iS 43 50.00

PPR 4.87 207 iPd 43 45.50 0.9
iS 44 40.00
CHTO 21.58 285 eP 47 10.00 -0.8
0.9s 4.90nm 3.9mb

BJI 26.11 352 eP 47 55.00 1.4
MBL 35.12 182 eP 49 14.40 1.5
GUN 35.32 298 Pc 49 15.40 0.3

PKI 35.63 298 Pc 49 17.50 -0.2
0.5s 19.00nm 5.1mb
KKN 35.80 298 Pc 49 18.90 -0.1
0.6s 23.00nm 5.1mb

DMN 35.90 298 Pc 49 19.90 0.0
0.5s 14.00nm 4.9mb
WB5 36.32 158 eP 49 15.20 -7.9X

GKN 36.41 298 Pc 49 23.80 -0.2
0.6s 14.00nm 4.9mb
ASPA 39.68 161 eP 49 53.50 2.4X
0.4s 20.00nm 5.2mb

WARB 40.49 172 iPd 49 55.20 -2.5
0.3s 9.00nm 4.9mb
GBA 42.19 275 Pc 50 11.50 -0.2
0.8s 4.60nm 4.2mb

NAO 87.21 333 P 55 03.00 0.7
0.8s 4.20nm 4.4mb
S.D. = 1.2 on 13 of 16 obs.

& FEB 03, 1989 06h 52m 08.30s
34.920 N 119.240 W
DEPTH = 14.0km

SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.0 (PAS).

ABL 0.07 167 iPd 52 11.20 -0.3
SYP 0.72 237 iPd 52 22.40 0.1
BCH 0.74 291 iPd 52 21.50 -1.0

ISA 0.97 40 iPd 52 25.30 -1.1
eS 52 37.90
BLP 1.02 250 eP 52 27.00 -0.2

PAS 1.17 131 iPd 52 29.40 -0.4
PHAM 1.32 314 eP 52 30.00 -2.2
PKEM 1.34 328 eP 52 31.60 -1.0

PEC 2.00 120 eP 52 41.00 -1.1
PLM 2.52 128 eP 52 48.30 -1.3
ARN 3.05 323 eP 52 55.80 -1.2

03d 06h

CMB 3.24 344 e(P) 53 00.00 0.2
 TNP 3.55 27 eP 53 11.00 6.7
 KVN 4.22 12 eP 53 20.00 6.2
 14 obs. associated

& FEB 03, 1989 07h 43m 09.20s
 37.837 N 122.590 W
 DEPTH = 7.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 2.0 (BRK). Felt at
 Muir Beach.

BRK 0.26 82 eP 43 14.60 0.0
 BKS 0.28 82 eP 43 15.00 0.0
 ZSP 0.28 68 eP 43 15.90 0.9
 PCC 0.37 154 eP 43 16.30 -0.5
 NWRM 0.66 339 eP 43 21.20 -1.3
 MHC 0.90 123 eP 43 26.30 -0.5
 GCC 0.93 149 eP 43 26.60 -0.7
 ARN 0.97 120 eP 43 27.70 -0.3
 CMB 1.75 83 eP 43 39.80 -0.5
 9 obs. associated

? FEB 03, 1989 07h 54m 42.18 ± 7.33s
 51.586 N ± 44.8km 16.224 E ± 46.7km
 DEPTH = 10.0km (geophysicist)
 POLAND (548)
 ML 3.3 (VKA), 3.1 (KBA).

KSP 0.75 177 iPd 54 57.00 0.2
 0.4s 64.00nm
 PRU 1.92 214 ePn 55 15.00 -0.3
 55 17.10
 55 34.20
 CLL 2.03 263 iPn 55 16.40 -0.4
 iPg 55 20.10
 iSg 55 45.20
 KHC 2.99 216 Pn 55 30.70 0.3
 Pg 55 36.50
 Sn 56 06.30
 Sg 56 16.30
 MOX 3.05 254 ePn 55 32.00 0.7
 ePg 55 39.00
 iSg 56 19.00
 VKA 3.33 179 iPg 55 45.20 9.9X
 iSg 56 28.60
 ZST 3.44 170 eP 56 34.30 57.4X
 KBA 4.89 204 iPnc 55 57.20 -0.4
 i 57 19.80
 S.D. = 0.6 on 6 of 8 obs.

* FEB 03, 1989 08h 33m 49.20 ± 1.66s
 36.296 N ± 12.1km 70.766 E ± 9.8km
 DEPTH = 206.8 ± 18.2 km
 4.4mb (10 obs.)
 HINDU KUSH REGION (718)

NDI 9.34 143 eP 36 01.20 0.5
 0.6s 23.33nm 4.7mb
 GKN 14.36 121 P 37 04.10 -0.4
 0.6s 11.00nm 4.5mb
 DMN 14.93 121 P 37 11.90 0.2
 0.4s 8.00nm 4.5mb
 KKN 14.93 121 P 37 11.30 -0.4
 0.5s 14.00nm 4.6mb
 PKI 15.16 121 P 37 14.40 -0.2
 0.6s 9.00nm 4.4mb
 GUN 15.28 119 P 37 16.40 0.3
 HFS 43.11 322 eP 41 29.70 -0.5
 0.4s 1.80nm 3.9mb
 NAO 44.59 323 P 41 41.80 -0.2
 0.8s 5.80nm 4.1mb
 BNG 57.40 249 ePd 43 19.10 0.6
 0.3s 5.00nm 4.7mb
 BCAO 57.41 249 eP 43 18.00 -0.5
 0.8s 2.01nm 3.9mb
 INK 74.14 9 eP 45 04.00 0.1
 YKA 81.46 3 P 45 44.00 1.0
 WB5 82.02 122 eP 45 47.00 -0.5
 WRA 82.05 122 Pd 45 47.70 0.1

1.1s 5.30nm 4.2mb
 S.D. = 0.5 on 14 of 14 obs.

FEB 03, 1989 08h 46m 28.61 ± 0.80s
 40.716 N ± 5.3km 19.755 E ± 8.3km
 DEPTH = 10.0km (geophysicist)
 ALBANIA (391)
 MG 2.6 (TIR).

BERA 0.15 95 iPg 46 32.30 0.3
 VLO 0.32 219 iPg 46 35.10 -0.1
 TPE 0.46 155 ePg 46 37.10 -0.9
 TIR 0.64 8 ePg 46 41.10 -0.2
 LSK 0.86 131 ePg 46 46.60 1.4
 OHR 0.88 63 ePg 46 43.10 -2.5
 iSg 47 00.40
 PHP 1.10 28 ePg 46 50.00 0.8
 SDA 1.31 352 ePg 46 52.10 -0.7
 KKS 1.45 20 ePn 46 56.00 1.2
 SKO 1.78 45 iPn 47 00.10 0.4
 VAY 2.21 73 ePn 47 06.30 0.4
 S.D. = 1.2 on 11 of 11 obs.

? FEB 03, 1989 09h 27m 51.65 ± 9.58s
 51.744 N ± 54.2km 16.388 E ± 61.4km
 DEPTH = 10.0km (geophysicist)
 POLAND (548)
 ML 3.8 (VKA), 3.6 (KBA).

KSP 0.90 184 iPd 28 09.10 0.1
 0.5s 155.00nm
 PRU 2.11 214 Pn 28 27.50 0.1
 Pg 28 30.00
 Sn 28 45.60
 Sg 28 51.00
 CLL 2.16 260 iPn 28 28.50 0.4
 iPg 28 31.40
 iSg 28 57.20
 KHC 3.17 216 iPn 28 42.90 0.3
 Pg 28 48.40
 Sn 29 18.30
 Sg 29 28.60
 MOX 3.20 252 ePn 28 43.00 0.1
 iPg 28 51.00
 iSg 29 30.00
 VKA 3.48 181 iPg 28 56.60 9.6X
 iSg 29 40.50
 SPC 3.55 135 ePn 29 05.80 17.7X
 i(Sn) 29 51.90
 GRF 3.87 240 ePn 28 52.40 -0.1
 eSg 29 51.30
 KBA 5.07 204 iPnc 29 09.20 -0.5
 i 30 10.30
 i 30 31.80
 TNS 5.24 256 ePd 29 11.50 -0.4
 eS 30 37.30
 S.D. = 0.4 on 8 of 10 obs.

FEB 03, 1989 13h 05m 12.54 ± 0.34s
 11.753 N ± 3.4km 61.186 W ± 5.6km
 DEPTH = 77.6 ± 3.3 km
 4.7mb (25 obs.)
 WINDWARD ISLANDS (95)
 Felt at Kingstown, St. Vincent.

GRW 0.62 311 iP 05 27.61 0.2
 eS 05 43.49
 PIG 0.68 150 iP 05 26.29 -1.7
 eS 05 42.83
 BOT 0.74 142 iP 05 26.71 -1.9
 TRN 1.12 191 iP 05 33.40 0.2
 eS 05 45.27
 TCE 1.19 208 iP 05 34.26 0.2
 TBH 1.27 175 iP 05 34.94 -0.2
 eS 05 50.69
 TPP 1.45 190 eP 05 38.81 1.3
 SV8 1.51 358 iP 05 38.30 0.0
 SVV 1.56 359 iP 05 38.96 0.0
 BIM 2.75 2 iP 05 55.23 -0.1
 MVM 2.80 6 iPc 05 55.29 -0.7
 i 06 27.20
 FDF 2.96 1 iPc 05 57.86 -0.4
 S 06 31.50
 DTMT 3.46 357 eP 06 05.18 -0.1
 eS 06 52.79
 DOG 4.27 354 ePc 06 16.57 -0.1

PAG 4.28 354 ePc 06 16.69 0.0
 S 07 05.50
 MGH 5.04 349 eP 06 27.52 0.2
 eS 07 25.40
 ANG 5.41 353 eP 06 32.50 0.1
 eS 07 30.65
 NEV 5.52 346 eP 06 36.85 2.9
 eS 07 40.31
 SKI 5.75 345 eP 06 38.05 0.9
 eS 07 42.50
 BSK 5.79 344 eP 06 38.42 0.7
 eS 07 41.08
 SKDB 5.83 345 eP 06 40.44 2.2
 eS 07 48.22
 CPB 5.88 354 eP 06 38.72 -0.3
 ATB 17.40 149 P 09 03.60 -0.2X
 ZOBO 28.68 194 P 11 06.00 1.0
 Z 20s 0.25um 3.8msz
 LR 19 56.00
 LPB 28.92 194 eP 11 09.00 2.0
 eLR 20 30.00
 CNCB 29.16 193 Pd 11 10.70 1.3
 CCM 29.36 190 eP 11 14.30 3.5X
 TKL 31.37 323 P 11 27.00 -1.1
 GBTN 31.64 323 P 11 30.00 -0.4
 PWLA 33.61 318 P 11 47.60 0.0
 RSNY 34.63 343 P 11 54.80 -1.5
 1.0s 8.33nm 4.6mb
 ELC 35.76 320 P 12 05.00 -0.9
 GAC 35.96 343 eP 12 09.50 2.0
 FVM 36.94 320 P 12 15.00 -0.8
 LNO 39.42 313 eP 12 34.90 -1.6
 TUL 39.42 313 eP 12 38.50 1.9
 0.7s 11.00nm 4.9mb
 SCH 43.18 355 eP 13 08.00 0.8
 ALO 47.03 307 eP 13 37.20 -1.2
 1.0s 5.75nm 4.4mb
 e 13 55.00
 BW06 51.98 316 P 14 14.00 -2.3
 FRB 52.18 356 eP 14 17.00 -0.1
 FFC 53.49 332 iPd 14 25.10 -1.8
 0.7s 19.00nm 5.2mb
 TIC 55.60 90 P 14 41.54 -1.5
 0.6s 13.00nm 5.2mb
 LIC 55.67 90 P 14 42.06 -1.4
 KIC 55.92 90 P 14 44.02 -1.3
 KVN 57.09 309 P 14 51.00 -2.6
 TOL 57.44 50 iPc 14 56.50 0.8
 EDM 58.47 326 iPc 15 01.50 -1.2
 KUK 60.24 90 eP 15 14.00 -1.5
 EPF 61.32 47 eP 15 23.40 1.0
 0.6s 11.70nm 5.2mb
 LFF 61.98 45 eP 15 27.10 0.4
 0.8s 10.70nm 5.0mb
 LPO 62.24 46 eP 15 28.90 0.4
 0.6s 9.00nm 5.0mb
 RJF 62.59 45 eP 15 30.90 0.1
 CAF 62.90 45 eP 15 33.10 0.2
 0.5s 7.50nm 5.0mb
 YKC 63.18 335 eP 15 33.50 -0.9
 YKA 63.24 335 P 15 33.40 -1.4
 TCF 63.26 44 eP 15 35.30 0.1
 1.0s 8.80nm 4.7mb
 MAF 63.49 44 eP 15 37.10 0.4
 1.0s 6.00nm 4.5mb
 SSF 64.28 43 eP 15 41.60 -0.3
 0.6s 2.10nm 4.2mb
 SMF 64.43 44 eP 15 42.90 0.0
 1.0s 14.00nm 4.8mb
 LOR 64.56 43 eP 15 43.50 -0.2
 0.8s 6.70nm 4.6mb
 LBF 64.59 43 eP 15 43.40 -0.5
 0.6s 2.70nm 4.4mb
 LMR 65.82 48 eP 15 52.10 0.3
 0.8s 6.40nm 4.6mb
 FRF 65.95 47 eP 15 52.90 0.3
 0.8s 5.30nm 4.5mb
 LPG 66.26 45 eP 15 55.30 0.3
 0.8s 6.70nm 4.6mb
 BSF 66.61 43 eP 15 56.50 -0.5
 0.8s 6.40nm 4.6mb
 CDF 67.02 42 eP 15 59.50 0.0
 1.0s 8.00nm 4.6mb
 CVF 67.47 49 eP 16 02.40 0.0
 0.6s 5.40nm 4.7mb
 KBA 70.96 44 eP 16 23.50 -0.4
 0.8s 7.60nm 4.7mb

CLL 71.03 40 eP 16 23.00 -1.0
 NAO 71.06 30 P 16 24.60 0.6
 0.9s 7.10nm 4.6mb
 MBC 71.33 348 eP 16 25.00 -0.4
 0.6s 12.00nm 5.0mb
 HFS 72.36 30 eP 16 31.60 -0.1
 0.5s 3.40nm 4.5mb
 INK 72.64 338 eP 16 32.00 -1.2
 pP 16 50.50 68kmX
 OHR 76.36 50 e(P) 16 56.50 1.2
 BZS 76.69 46 eP 16 58.50 1.7
 SKO 76.79 49 e(P) 16 58.00 0.5
 KJF 79.04 26 eP 17 10.00 0.6
 BNG 79.07 88 iPd 17 11.00 0.4
 0.2s 36.00nm 5.9mb X
 MLR 79.73 46 ePc 17 15.00 1.3
 GKN 128.45 39 PKP 24 14.00 1.1
 KKN 129.00 39 PKP 24 14.40 0.4
 PKI 129.24 39 PKP 24 15.30 0.7
 GUN 129.28 38 PKP 24 16.10 1.4
 BWA 144.86 225 ePKP 24 41.70 -1.0
 TOO 144.90 218 iPKPc 24 42.90 0.2
 WRA 163.00 239 PKPc 25 08.60 1.2
 1.2s 5.40nm
 WB5 163.00 240 ePKP 25 08.60 1.1
 S.D. = 1.1 on 85 of 87 obs.

& FEB 03, 1989 13h 14m 33.16s
 57.637 N 155.420 W
 DEPTH = 75.3km
 ALASKA PENINSULA (12)
 <AGS-P>.

KDC 1.58 85 iP 14 58.49 -1.2
 eS 15 17.84
 AUH 2.02 30 eP 15 05.00 -0.8
 eS 15 29.87
 AUL 2.04 30 eP 15 05.30 -0.7
 PDB 2.25 16 iP 15 07.33 -1.6
 iS 15 33.87
 ILIM 2.76 27 eP 15 15.07 -1.0
 eS 15 47.39
 CNPM 2.90 47 eP 15 16.53 -1.4
 eS 15 50.20
 RED 3.11 25 eP 15 19.75 -1.2
 eS 15 57.92
 >NNL 3.23 40 eP 15 22.10 -0.4
 RDT 3.33 27 eP 15 22.88 -1.1
 eS 16 03.14
 SVW 3.48 358 eP 15 23.69 -2.4
 SDN 3.64 233 eP 15 26.56 -1.6
 NKA 3.79 33 eP 15 30.19 -0.1
 SLKM 3.94 41 eP 15 30.62 -1.8
 eS 16 13.22
 SPU 3.95 24 eP 15 31.30 -1.3
 eS 16 16.96
 SEW 3.97 49 eP 15 29.65 -3.1
 CRP 4.00 23 eP 15 32.59 -0.9
 PTE 4.61 43 eP 15 39.02 -2.8
 PMS 4.69 37 eP 15 40.38 -2.7
 PWL 4.86 45 eP 15 42.30 -3.1
 PLRM 5.09 36 eP 15 45.85 -2.7
 PME 5.15 36 eP 15 46.65 -2.7
 KNK 5.19 40 eP 15 46.62 -3.3
 GHO 5.29 36 eP 15 48.59 -2.9
 TTA 5.32 357 eP 15 48.90 -2.9
 HIN 5.37 55 eP 15 49.28 -3.3
 SML 5.51 38 eP 15 53.62 -0.8
 VZW 5.69 49 eP 15 53.16 -3.8
 CVA 5.77 56 eP 15 54.43 -3.6
 VLZ 5.82 49 eP 15 55.41 -3.2
 SGAM 6.00 57 eP 15 57.78 -3.4
 KLU 6.18 47 eP 16 00.38 -3.5
 RAGM 6.20 59 eP 16 00.59 -3.4
 HMT 6.37 60 eP 16 03.08 -3.3
 33 obs. associated

FEB 03, 1989 13h 32m 03.43±0.67s
 42.473 N ± 6.3km 24.259 E ± 10.7km
 DEPTH = 10.0km (geophysicist)
 BULGARIA (359)

SRS 1.44 200 eP 32 30.10 0.5
 eS 32 51.10
 KNT 1.66 218 eP 32 32.70 0.0
 eS 32 55.60

VAY 1.71 228 ePn 32 32.70 -0.7
 SOH 1.78 203 eP 32 40.30 5.8X
 GRG 2.06 223 eP 32 37.70 -0.8
 eS 33 09.70
 SKO 2.15 258 ePn 32 41.00 1.1
 PAIG 2.58 190 eP 32 46.00 0.1
 MLR 3.25 21 ePc 32 56.00 0.4
 BZS 3.67 330 ePc 33 01.00 -0.5
 VRI 3.83 27 ePd 33 03.50 -0.2
 S.D. = 0.7 on 9 of 10 obs.

FEB 03, 1989 13h 43m 16.48±0.77s
 24.024 S ± 6.7km 66.882 W ± 9.6km
 DEPTH = 190.5 ± 6.8 km
 4.8mb (8 obs.)

SALTA PROVINCE, ARGENTINA (129)

HJA 1.58 60 iPd 43 52.20 1.9
 CCH 6.64 6 P 44 51.50 -1.6
 CNCB 7.25 352 iPc 45 02.20 0.8
 S 46 24.00
 LPB 7.54 351 P 45 06.00 0.9
 0.7s 47.95nm 4.9mb
 S 46 30.00
 ZOBO 7.80 351 P 45 08.30 -0.5
 Z 16s 0.20um
 LR 47 26.00
 PEL 9.68 199 eP 45 30.00 -2.6

BRAS 19.62 90 iPc 47 20.80 -11.8X
 BMA 20.91 91 ePd 47 45.60 0.4
 SGS 58.36 347 P 52 53.60 -0.2
 JSC 59.57 346 P 53 01.40 -0.7
 PRM 59.63 345 P 53 01.80 -0.8
 LHS 59.66 347 P 53 02.00 -0.8
 TKL 61.47 344 P 53 13.00 -2.0
 GBTN 61.59 344 P 53 13.80 -2.0
 PWLA 62.02 340 P 53 16.60 -2.0
 BLA 62.23 348 P 53 19.30 -0.7
 0.8s 16.97nm 4.9mb
 ELC 64.51 340 P 53 32.80 -2.0
 FVM 65.53 340 P 53 40.00 -1.3
 SPA 66.12 180 ePd 53 46.10 1.0
 0.8s 11.67nm 4.7mb
 LIC 67.34 72 PKP 53 53.70 0.4
 KIC 67.66 72 PKP 53 54.70 -0.6
 0.6s 20.00nm 5.0mb
 ALO 69.62 326 ePd 54 07.00 -0.2
 0.9s 18.07nm 4.8mb

GLA 72.86 319 eP 54 27.00 0.7
 GOL 72.87 330 P 54 26.00 -0.4
 BAR 73.72 318 eP 54 32.00 0.7
 TPC 74.33 319 eP 54 36.00 1.2
 PEC 74.85 318 P 54 38.80 1.0
 RVR 75.05 318 eP 54 39.00 0.2
 SBB 75.79 319 eP 54 43.00 -0.1
 DAU 76.25 327 P 54 46.70 0.8
 CLC 76.43 320 eP 54 46.00 -0.6
 ISA 76.84 319 eP 54 50.00 1.1
 DUG 76.88 326 P 54 50.00 0.9
 SYP 77.00 317 eP 54 51.00 1.1
 BW06 77.23 329 P 54 51.00 -0.1
 BLP 77.29 317 P 54 52.10 0.8
 BCH 77.50 318 P 54 53.70 1.1
 TNP 77.76 322 P 54 55.00 0.9
 0.8s 6.37nm 4.4mb
 PHAM 78.12 318 P 54 56.90 1.0
 KVN 78.93 322 P 55 00.70 0.2
 ARN 79.80 319 P 55 06.20 1.3
 LRM 80.89 330 eP 55 11.70 1.0
 MAW 81.38 163 eP 55 13.00 0.3
 LBFM 82.62 322 P 55 20.20 0.4
 FFC 84.02 340 eP 55 26.00 -0.2
 1.1s 20.00nm 4.8mb
 PNT 86.78 329 eP 55 40.00 0.0
 0.8s 8.00nm 4.6mb
 YKC 94.13 340 eP 56 14.00 0.1
 YKA 94.18 340 P 56 14.50 0.4
 BZS 105.76 47 ePd 57 05.50 -1.0
 e 21 33.00

ASPA 128.48 205 iPKPd 02 02.30 -0.4
 0.9s 10.00nm
 WRA 131.65 207 PKPc 02 08.90 0.1
 0.6s 3.30nm
 WB5 131.70 207 ePKP 02 09.00 0.1
 GBA 144.76 101 PKPc 02 32.00 -0.7
 0.7s 9.00nm
 HYB 147.07 95 ePKP 02 37.50 0.9

S.D. = 1.0 on 53 of 54 obs.

% FEB 03, 1989 13h 57m 36.90±0.89s
 39.257 N ± 7.9km 27.760 E ± 8.7km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

DST 0.76 62 iPn 57 51.20 -0.5
 IZM 0.94 205 ePn 57 55.10 0.2
 EDC 1.09 4 ePn 57 57.40 0.0
 KCT 1.09 25 iPn 57 58.10 0.7
 EZN 1.25 298 ePn 57 59.70 -0.3
 S.D. = 0.7 on 5 of 5 obs.

& FEB 03, 1989 14h 04m 45.80s
 39.015 N 111.499 W
 DEPTH = 1.0km
 UTAH (478)
 <SLC-P>. ML 3.0 (SLC).

MSU 0.73 227 eP 04 59.50 -0.8
 DAU 1.41 8 eP 05 12.00 -0.8
 DUG 1.56 320 eP 05 13.70 -1.1
 BW06 4.04 21 eP 05 49.00 -1.3
 GOL 4.80 80 eP 06 01.00 -0.3
 KVN 5.14 272 eP 06 06.50 0.5
 ALO 5.73 134 eP 06 13.00 -1.3
 7 obs. associated

* FEB 03, 1989 14h 10m 04.28±0.62s
 14.743 S ± 13.3km 66.587 E ± 8.9km
 DEPTH = 10.0km (geophysicist)
 4.7mb (4 obs.)
 MID-INDIAN RISE (429)

AVY 18.52 254 eP 14 39.80 16.9X
 HYB 34.07 21 eP 16 51.00 -0.1
 PTZ 34.11 266 ePd 16 52.00 0.3
 BUL 36.57 256 iP 17 11.90 -0.7
 LSZ 37.06 264 iPc 17 17.60 0.8
 KMZ 39.51 267 iP 17 36.00 -1.3
 DMN 45.77 23 P 18 28.00 -0.2
 PKI 45.85 24 P 18 17.50 -11.5X
 CHTO 46.12 45 eP 18 30.30 -0.5
 MHI 51.20 353 eP 19 11.00 0.9
 BNG 51.28 288 iPc 19 11.00 0.1
 0.8s 11.00nm 4.8mb
 WB5 64.54 105 eP 20 45.20 1.0
 OHR 69.87 325 eP 21 15.80 -1.6
 SKO 70.10 326 eP 21 18.20 -0.5
 i 21 24.70
 VRI 70.25 332 ePc 21 21.00 1.5
 BJI 71.37 38 eP 21 25.00 -1.4
 CVF 77.80 320 eP 22 02.80 -0.7
 KHC 78.95 328 iPd 22 10.00 0.3
 e 22 20.60
 PRU 78.99 329 P 22 10.50 0.7
 e 22 16.20
 LMR 79.68 320 eP 22 14.00 0.3
 1.0s 8.00nm 4.7mb
 FRF 79.71 320 eP 22 14.50 0.7
 1.0s 8.00nm 4.7mb
 BSF 81.89 324 eP 22 25.10 -0.3
 CDF 81.93 325 eP 22 25.30 -0.2
 HAU 82.23 324 eP 22 27.30 0.2
 LBF 83.08 322 eP 22 32.00 0.5
 LOR 83.30 322 eP 22 32.80 0.2
 SSF 83.40 322 eP 22 33.30 0.2
 1.2s 7.10nm 4.7mb
 YKA 132.31 1 PKP 29 19.80 -0.1
 S.D. = 0.8 on 26 of 28 obs.

FEB 03, 1989 14h 37m 20.08±0.66s
 37.910 N ± 6.9km 112.428 E ± 7.6km
 DEPTH = 10.0km (geophysicist)
 4.2mb (4 obs.)
 NORTHEASTERN CHINA (658)
 ML 4.1 (BJI).

TIY 0.20 179 iPgD 37 26.30 1.8
 Sg 37 29.70
 HHC 3.01 347 Pnc 38 08.80 0.0
 0.6s 0.20nm
 PgD 38 14.50
 Sn 38 51.80
 Sg 38 56.00
 BTO 3.27 326 ePn 38 13.60 1.1

03d 14h

| | | | | | |
|-----------------------------|-------|---------|----|-------|------|
| | | Pg | 38 | 19.80 | |
| | | Sg | 39 | 02.40 | |
| BJI | 3.61 | 53 ePn | 38 | 16.50 | -0.7 |
| | | ePg | 38 | 25.00 | |
| | | eSg | 39 | 10.00 | |
| TIA | 4.12 | 113 ePn | 38 | 23.80 | -0.6 |
| | | Pg | 38 | 34.00 | |
| | | Sg | 39 | 23.70 | |
| XAN | 4.80 | 217 Pn | 38 | 33.90 | -0.2 |
| | | Pg | 38 | 49.40 | |
| | | Sn | 39 | 28.90 | |
| | | Sg | 39 | 51.40 | |
| LZH | 7.11 | 258 Pn | 39 | 05.50 | -1.3 |
| GTA | 9.98 | 283 P | 39 | 45.10 | -1.6 |
| | | S | 41 | 37.50 | |
| CD2 | 10.00 | 228 eP | 39 | 44.40 | -2.4 |
| GYA | 12.41 | 205 P | 40 | 18.60 | -1.2 |
| LSA | 19.46 | 251 P | 41 | 51.00 | 0.7 |
| CHTO | 22.37 | 215 eP | 42 | 20.10 | 0.2 |
| | 0.6s | 0.56nm | | | |
| KKN | 24.86 | 254 P | 42 | 45.40 | 1.1 |
| | 0.6s | 5.00nm | | | |
| PKI | 24.88 | 253 P | 42 | 45.40 | 0.8 |
| | 0.5s | 2.00nm | | | |
| DMN | 25.09 | 254 P | 42 | 48.00 | 1.5 |
| GKN | 25.24 | 255 P | 42 | 48.00 | 0.9 |
| | 0.7s | 8.00nm | | | |
| S.D. = 1.3 on 16 of 16 obs. | | | | | |

FEB 03, 1989 14h 39m 59.03±0.50s
 64.647 N ± 7.6km 17.514 W ± 8.0km
 DEPTH = 10.0km (geophysicist)
 4.1mb (19 obs.)

ICELAND (638)

| | | | | | |
|-----------------------------|-------|----------|----|-------|------|
| AKU | 1.07 | 347 iP | 40 | 19.00 | -0.2 |
| | 0.9s | 631.93nm | | | |
| REY | 1.98 | 257 iP | 40 | 33.10 | 0.3 |
| EKA | 11.75 | 136 P | 42 | 48.00 | -1.5 |
| | 1.1s | 17.20nm | | | |
| GRR | 18.60 | 143 eP | 44 | 18.10 | 0.2 |
| | 1.0s | 16.00nm | | | |
| MEM | 18.71 | 128 Pc | 44 | 21.30 | 2.1 |
| LPF | 18.88 | 144 eP | 44 | 21.60 | 0.2 |
| | 0.6s | 3.60nm | | | |
| MFF | 20.44 | 144 eP | 44 | 38.60 | -0.2 |
| | 1.0s | 5.60nm | | | |
| MOX | 20.70 | 119 eP | 44 | 42.00 | 0.5 |
| | 1.0s | 17.00nm | | | |
| LOR | 20.94 | 136 eP | 44 | 43.50 | -0.5 |
| | 1.0s | 10.00nm | | | |
| CDF | 21.02 | 129 eP | 44 | 45.20 | 0.4 |
| | 0.8s | 5.30nm | | | |
| SSF | 21.02 | 137 eP | 44 | 44.30 | -0.5 |
| | 0.8s | 4.00nm | | | |
| HAU | 21.06 | 131 eP | 44 | 45.70 | 0.4 |
| | 0.8s | 9.10nm | | | |
| LSF | 21.20 | 141 eP | 44 | 46.50 | -0.2 |
| | 1.0s | 12.00nm | | | |
| AVF | 21.22 | 137 eP | 44 | 46.40 | -0.4 |
| | 0.8s | 4.50nm | | | |
| LBF | 21.23 | 136 eP | 44 | 46.60 | -0.4 |
| | 0.8s | 6.70nm | | | |
| BGF | 21.29 | 139 eP | 44 | 47.30 | -0.2 |
| | 0.8s | 14.70nm | | | |
| TCF | 21.35 | 140 eP | 44 | 48.20 | 0.0 |
| | 0.8s | 12.60nm | | | |
| BSF | 21.36 | 130 eP | 44 | 48.90 | 0.5 |
| | 0.8s | 5.30nm | | | |
| SMF | 21.50 | 137 eP | 44 | 49.40 | -0.2 |
| | 0.8s | 9.40nm | | | |
| MAF | 21.51 | 139 eP | 44 | 49.90 | 0.1 |
| | 0.8s | 6.70nm | | | |
| RJF | 22.07 | 142 eP | 44 | 55.90 | 0.5 |
| | 0.8s | 6.40nm | | | |
| LFF | 22.21 | 144 eP | 44 | 57.20 | 0.4 |
| | 0.8s | 10.70nm | | | |
| LPG | 23.41 | 133 eP | 45 | 07.60 | -1.3 |
| | 1.0s | 6.00nm | | | |
| S.D. = 0.7 on 23 of 23 obs. | | | | | |

FEB 03, 1989 15h 18m 25.47±0.15s
 64.583 N ± 3.1km 17.381 W ± 2.7km
 DEPTH = 10.0km (geophysicist)
 5.3mb (58 obs.) 4.9msz (3 obs.)

ICELAND (638)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
 L.P.B.: 9S, 21C
 Centroid Location:
 Origin Time 15:18:29.0 1.5
 Lat 64.56N 0.16 Lon 17.26W 0.30
 Dep 15.0 FIX Half-duration 1.5
 Moment Tensor; Scale 10**16 Nm
 Mrr= 5.15 0.45 Mtt=-4.26 0.63
 Mff=-0.89 0.41 Mrt=-1.26 1.64
 Mrrf= 0.11 1.55 Mtrf= 0.38 0.48
 Principal Axes:
 T Val= 5.32 P1g=82 Azm=180
 N -0.85 1 276
 P -4.47 7 6
 Best Double Couple: Mo=4.9*10**16
 NP1: Strike= 97 Dip=38 Slip= 91
 NP2: 276 52 89

| | | | | | |
|------|-------|----------|----|-------|-------|
| AKU | 1.15 | 345 iP | 18 | 42.70 | -4.2X |
| REY | 2.02 | 259 iP | 18 | 57.50 | -2.4 |
| ELO | 10.54 | 134 eP | 20 | 56.50 | -3.0X |
| | 1.1s | 125.00nm | | | |
| EAB | 10.58 | 137 eP | 20 | 57.00 | -3.1X |
| | 1.2s | 325.00nm | | | |
| EDI | 11.16 | 134 eP | 21 | 05.50 | -2.3 |
| | 1.0s | 78.00nm | | | |
| EKA | 11.66 | 136 P | 21 | 12.00 | -2.8X |
| | 0.7s | 35.70nm | | | |
| ESK | 11.66 | 136 iPd | 21 | 13.00 | -1.8 |
| | 1.0s | 160.00nm | | | |
| DMU | 11.96 | 149 eP | 21 | 18.20 | -0.5 |
| | | eS | 23 | 27.80 | |
| RGS | 12.34 | 85 ePd | 21 | 23.50 | -0.4 |
| DCN | 12.40 | 151 eP | 21 | 24.30 | -0.3 |
| DLE | 12.61 | 149 eP | 21 | 28.80 | 1.4 |
| VAL | 13.21 | 160 eP | 21 | 35.00 | -0.4 |
| ETA | 13.23 | 149 eP | 21 | 37.80 | 2.1 |
| NAO | 13.42 | 93 P | 21 | 33.60 | -4.6X |
| | 1.8s | 103.90nm | | | |
| ECB | 13.42 | 151 eP | 21 | 39.70 | 1.5 |
| YRH | 13.48 | 145 eP | 21 | 32.80 | -6.2X |
| ECP | 13.68 | 150 eP | 21 | 41.10 | -0.5 |
| NRA0 | 13.76 | 93 P | 21 | 42.00 | -0.7 |
| GDH | 14.75 | 304 iPd | 21 | 48.00 | -7.6X |
| | 1.2s | 93.75nm | | | |
| | | e | 24 | 42.00 | |
| | | i | 26 | 00.00 | |
| TRO | 14.82 | 54 eP | 22 | 03.50 | 7.1X |
| HFS | 14.99 | 93 eP | 22 | 04.90 | 6.1X |
| | 1.0s | 120.50nm | | | |
| Z | 17s | 1.62um | | | |
| | | LR | 25 | 32.00 | |
| KBS | 16.70 | 19 eP | 22 | 22.50 | 2.0 |
| WIT | 17.04 | 122 ePc | 22 | 25.00 | 0.0 |
| KEV | 17.63 | 53 eP | 22 | 32.00 | -0.3 |
| | 1.0s | 56.00nm | | | |
| | | i | 22 | 37.00 | |
| WTS | 17.75 | 124 iPc | 22 | 32.00 | -1.9 |
| | 1.1s | 104.00nm | | | |
| SOD | 17.84 | 61 iP | 22 | 34.00 | -0.9 |
| UCC | 17.91 | 130 P | 22 | 34.00 | -1.8 |
| SNF | 18.13 | 131 P | 22 | 37.00 | -1.6 |
| FLN | 18.27 | 142 eP | 22 | 38.50 | -1.8 |
| | 1.1s | 83.00nm | | | |
| ENN | 18.46 | 127 iPc | 22 | 41.00 | -1.6 |
| | 1.0s | 35.00nm | | | |
| | | e | 22 | 47.50 | |
| GRR | 18.52 | 143 eP | 22 | 41.50 | -1.8 |
| | 1.2s | 166.60nm | | | |
| LDF | 18.52 | 142 eP | 22 | 41.70 | -1.7 |
| | 1.2s | 95.20nm | | | |
| DOU | 18.59 | 131 P | 22 | 43.70 | -0.5 |
| MEM | 18.62 | 128 P | 22 | 42.90 | -1.7 |
| BNS | 18.73 | 125 iPc | 22 | 45.00 | -1.0 |
| | 1.5s | 298.00nm | | | |
| LPF | 18.80 | 144 eP | 22 | 45.90 | -0.9 |
| | 1.2s | 121.30nm | | | |
| SUF | 19.13 | 76 iP | 22 | 49.80 | -0.9 |
| | 0.6s | 7.50nm | | | |
| KJF | 19.19 | 71 eP | 22 | 47.00 | -4.4X |
| | 1.0s | 66.00nm | | | |
| | | i | 22 | 51.00 | |
| WLF | 19.47 | 129 Pc | 22 | 56.40 | 1.4 |
| NUR | 19.52 | 83 eP | 22 | 56.00 | 0.6 |
| | 1.0s | 54.00nm | | | |
| Z | 20s | 1.70um | | | |
| | | i | 23 | 07.00 | |

| | | | | | |
|------|-------|----------|----|-------|------|
| | | LR | 30 | 00.00 | |
| TNS | 19.80 | 124 eP | 22 | 58.40 | -0.2 |
| MFF | 20.35 | 144 eP | 23 | 02.70 | -1.6 |
| | 1.2s | 190.40nm | | | |
| MOX | 20.62 | 119 iPc | 23 | 05.50 | -1.6 |
| | 1.5s | 267.00nm | | | |
| | Z 18s | 3.70um | | | |
| | N 18s | 2.90um | | | |
| | E 17s | 3.40um | | | |
| | | eS | 27 | 14.00 | |
| | | LQ | 31 | 44.00 | |
| | | LR | 32 | 15.00 | |
| CLL | 20.62 | 116 iPc | 23 | 05.20 | -1.9 |
| | 1.6s | 330.00nm | | | |
| | | i | 23 | 16.20 | |
| LOR | 20.85 | 136 eP | 23 | 07.80 | -1.7 |
| | 1.3s | 225.60nm | | | |
| ALE | 20.87 | 345 eP | 23 | 10.00 | 0.5 |
| | 1.4s | 166.00nm | | | |
| CDF | 20.93 | 129 eP | 23 | 09.80 | -0.6 |
| | 1.3s | 137.10nm | | | |
| SSF | 20.93 | 137 eP | 23 | 08.70 | -1.7 |
| HAU | 20.98 | 131 eP | 23 | 10.20 | -0.6 |
| | 1.1s | 117.20nm | | | |
| LSF | 21.12 | 141 eP | 23 | 11.00 | -1.2 |
| AVF | 21.13 | 138 eP | 23 | 10.60 | -1.8 |
| LBF | 21.14 | 136 eP | 23 | 11.00 | -1.5 |
| BGF | 21.20 | 139 eP | 23 | 11.50 | -1.6 |
| GRF | 21.25 | 121 eP | 23 | 13.10 | -0.5 |
| | 1.5s | 160.00nm | | | |
| | Z 20s | 3.20um | | | |
| | | e | 23 | 14.70 | |
| | | eS | 27 | 19.00 | |
| TCF | 21.27 | 140 eP | 23 | 12.40 | -1.4 |
| BSF | 21.27 | 130 eP | 23 | 13.40 | -0.5 |
| | 1.4s | 217.80nm | | | |
| SMF | 21.41 | 137 eP | 23 | 13.80 | -1.4 |
| MAF | 21.43 | 140 eP | 23 | 14.20 | -1.2 |
| AGO | 21.74 | 139 P | 23 | 17.91 | -0.7 |
| FRB | 21.83 | 291 eP | 23 | 19.00 | -0.2 |
| SLE | 21.90 | 128 ePc | 23 | 19.60 | -0.6 |
| EMON | 21.94 | 160 eP | 23 | 21.50 | 0.9 |
| PLDF | 21.96 | 138 P | 23 | 19.95 | -0.8 |
| PYM | 21.98 | 139 P | 23 | 20.03 | -1.0 |
| RJF | 21.99 | 142 eP | 23 | 20.40 | -0.6 |
| ZLA | 22.11 | 128 ePc | 23 | 21.50 | -0.8 |
| LFF | 22.13 | 144 eP | 23 | 22.40 | 0.0 |
| PRU | 22.27 | 116 eP | 23 | 23.00 | -0.7 |
| | | e | 23 | 24.50 | |
| KSP | 22.28 | 112 eP | 23 | 23.40 | -0.5 |
| | 1.6s | 293.00nm | | | |
| | | id | 23 | 25.70 | |
| STS | 22.31 | 163 e(P) | 23 | 26.00 | 1.8 |
| LPO | 22.48 | 144 eP | 23 | 26.40 | 0.5 |
| CAF | 22.48 | 142 eP | 23 | 25.20 | -0.8 |
| LBL | 22.53 | 139 P | 23 | 26.92 | 0.6 |
| FUR | 22.54 | 123 iPc | 23 | 28.50 | 2.0 |
| | | i | 23 | 33.00 | |
| KHC | 22.59 | 118 iPc | 23 | 27.00 | 0.0 |
| | 1.0s | 50.00nm | | | |
| | | e | 24 | 44.50 | |
| SAX | 22.64 | 127 ePc | 23 | 27.20 | -0.6 |
| LLS | 22.85 | 128 ePc | 23 | 30.50 | 0.7 |
| EMS | 22.87 | 132 ePc | 23 | 30.30 | 0.3 |
| ERUA | 22.99 | 160 e(P) | 23 | 31.80 | 0.9 |
| DIX | 23.02 | 132 ePc | 23 | 32.10 | 0.6 |
| MMK | 23.22 | 131 ePc | 23 | 35.30 | 1.8 |
| LPG | 23.33 | 133 eP | 23 | 34.90 | 0.4 |
| | 1.4s | 82.70nm | | | |
| VDL | 23.34 | 128 ePc | 23 | 35.60 | 1.0 |
| OSS | 23.40 | 127 ePc | 23 | 36.00 | 0.9 |
| TMA | 23.47 | 129 ePc | 23 | 36.80 | 1.0 |
| LSD | 23.49 | 133 P | 23 | 37.50 | 1.4 |
| BHG | 23.50 | 121 eP | 23 | 36.70 | 0.9 |
| | 1.8s | 378.00nm | | | |
| OGA | 23.55 | 125 eP | 23 | 38.50 | 1.9 |
| ECRI | 23.59 | 152 e(P) | 23 | 38.50 | 1.7 |
| ORX | 23.60 | 131 P | 23 | 38.84 | 1.9 |
| ORO | 23.61 | 131 P | 23 | 38.10 | 1.1 |
| VAI | 23.65 | 130 P | 23 | 37.90 | 0.6 |
| KMR | 23.68 | 119 iP- | 23 | 39.20 | 1.6 |
| | | i | 24 | 05.40 | |
| BNI | 23.70 | 134 Pd | 23 | 40.00 | 2.0 |
| RSP | 23.80 | 133 P | 23 | 39.96 | 1.1 |
| EPF | 23.82 | 146 eP | 23 | 38.80 | -0.3 |
| RRL | 23.86 | 134 P | 23 | 40.89 | 1.3 |
| PTO | 24.03 | 164 eP | 23 | 42.10 | 1.0 |

| | | | | | | | | | | | | | | | | | | |
|------|-------|----------|------|----|-------|-------|-------|----------|----------|----------|-------|---------|----------|--------|---------|--------|-------|--|
| MDI | 24.04 | 129 | Pc | 23 | 43.20 | 2.1 | 1.7s | 120.00nm | 5.5mb | PR1 | 63.29 | 298 | eP | 28 | 57.00 | 0.6 | | |
| KBA | 24.21 | 122 | eP | 23 | 43.00 | 0.1 | Z 14s | 1.30um | 4.8MszX | SBB | 63.48 | 295 | eP | 28 | 57.00 | -0.6 | | |
| | 1.8s | 193.00nm | | | 5.4mb | | E 16s | 2.04um | | GLA | 63.72 | 292 | eP | 28 | 59.00 | -0.2 | | |
| | | i | | 23 | 54.70 | | | i | 27.40.50 | MWC | 63.98 | 295 | eP | 29 | 01.00 | 0.0 | | |
| PZZ | 24.33 | 134 | P | 23 | 44.37 | 0.3 | | LR | 39.24.00 | BNG | 65.31 | 140 | iPd | 29 | 08.50 | -1.1 | | |
| KRA | 24.37 | 109 | eP | 23 | 42.80 | -1.4 | CFR | 31.62 | 106 ePc | | 0.7s | 15.00nm | | | 5.3mb | | | |
| | 1.6s | 179.00nm | | | 5.4mb | | AVE | 31.91 | 164 eP | GTA | 65.32 | 49 | Pd | 29 | 09.00 | -0.6 | | |
| | | e | | 23 | 52.70 | | | i | 24.54.00 | | Z 17s | 1.00um | | | 5.1MszX | | | |
| DOI | 24.37 | 134 | P | 23 | 45.30 | 0.8 | OHR | 32.09 | 118 iP | | E 11s | 0.60um | | | | | | |
| FVI | 24.41 | 123 | P | 23 | 46.70 | 2.0 | | 1.8s | 0.17nm | 2.7mb X | NDI | 66.40 | 73 | eP | 29 | 17.00 | 0.5 | |
| SAL | 24.47 | 128 | P | 23 | 48.00 | 2.8X | BERA | 32.12 | 120 eP | | BTO | 67.35 | 41 | P | 29 | 22.90 | 0.4 | |
| CTI | 24.48 | 125 | P | 23 | 47.30 | 1.8 | VLO | 32.16 | 121 iP | 24.56.50 | HHC | 67.55 | 40 | eP | 29 | 23.40 | -0.3 | |
| STV | 24.63 | 134 | P | 23 | 47.04 | 0.1 | TPE | 32.50 | 120 eP | 24.56.50 | CN2 | 68.09 | 28 | eP | 29 | 24.00 | -2.9 | |
| ZST | 24.71 | 115 | eP | 23 | 48.30 | 0.7 | GRG | 32.84 | 117 eP | 25.00.00 | BJI | 69.53 | 36 | eP | 29 | 35.50 | -0.3 | |
| ROB | 24.76 | 133 | P | 23 | 48.06 | -0.1 | LSK | 32.85 | 120 eP | 25.00.70 | | Z 18s | 1.80um | | | 5.4Msz | | |
| CKI | 24.77 | 132 | Pc | 23 | 51.00 | 2.8X | KNT | 32.85 | 116 eP | 25.00.70 | LZH | 69.65 | 48 | eP | 29 | 35.50 | -1.4 | |
| TOUF | 24.82 | 134 | P | 23 | 51.01 | 2.1 | SRS | 33.16 | 115 eP | 25.02.90 | | 2.0s | 82.00nm | | | 5.5mb | | |
| RBL | 24.83 | 122 | P | 23 | 49.60 | 0.8 | SOH | 33.32 | 116 eP | 25.05.10 | GKN | 70.01 | 67 | P | 29 | 38.40 | -0.7 | |
| BOB | 24.85 | 130 | P | 23 | 51.80 | 2.8X | LIT | 33.61 | 117 eP | 25.07.30 | | 1.2s | 62.00nm | | | 5.6mb | | |
| AUTN | 24.89 | 134 | P | 23 | 50.68 | 1.1 | PAIG | 34.22 | 116 eP | 25.13.10 | KKN | 70.45 | 67 | P | 29 | 41.40 | -0.5 | |
| MVIF | 24.89 | 135 | P | 23 | 51.40 | 1.9 | TIO | 34.27 | 164 eP | 25.13.00 | | 1.1s | 45.00nm | | | 5.5mb | | |
| SAOF | 24.94 | 134 | P | 23 | 51.40 | 1.6 | GAC | 36.55 | 267 eP | 25.34.00 | DMN | 70.55 | 67 | P | 29 | 42.10 | -0.5 | |
| FIN | 24.94 | 133 | P | 23 | 49.70 | -0.2 | IZM | 36.94 | 113 eP | 25.36.00 | | 1.4s | 126.00nm | | | 5.9mb | | |
| CALN | 24.94 | 135 | P | 23 | 51.51 | 1.5 | RSNY | 37.06 | 265 P | 25.37.00 | GUN | 70.58 | 66 | P | 29 | 34.30 | -8.6X | |
| AURF | 24.96 | 134 | P | 23 | 52.03 | 2.0 | | 1.4s | 47.17nm | 5.1mb | | 1.3s | 81.00nm | | | 5.7mb | | |
| GEN | 24.99 | 131 | P | 23 | 50.42 | 0.2 | BBTK | 37.95 | 106 eP | 25.46.00 | PKI | 70.70 | 67 | P | 29 | 42.80 | -0.8 | |
| SBF | 25.01 | 134 | eP | 23 | 51.90 | 1.3 | YKC | 39.28 | 313 eP | 25.55.00 | | 1.3s | 55.00nm | | | 5.5mb | | |
| | 1.0s | 32.00nm | | | 5.0mb | | ELL | 39.42 | 112 eP | 25.57.60 | TIY | 70.71 | 40 | eP | 29 | 42.40 | -0.8 | |
| FRF | 25.04 | 136 | eP | 23 | 52.30 | 1.5 | INK | 39.94 | 329 ePd | 26.00.40 | | N 15s | 1.00um | | | | | |
| | 1.0s | 24.00nm | | | 4.8mb | | FFC | 40.68 | 298 ePd | 26.07.60 | LSA | 71.01 | 61 | P | 29 | 46.70 | 1.1 | |
| IMI | 25.11 | 133 | P | 23 | 51.14 | -0.4 | | 1.4s | 76.00nm | 5.2mb | XAN | 73.12 | 44 | P | 29 | 56.80 | -0.7 | |
| ETER | 25.14 | 143 | eP | 23 | 54.50 | 2.8X | BRW | 41.56 | 342 P | 26.15.00 | CD2 | 74.38 | 50 | eP | 30 | 04.20 | -0.7 | |
| SPC | 25.17 | 110 | eP | 23 | 52.60 | 0.4 | CVL | 44.13 | 263 P | 26.35.50 | HYB | 76.95 | 77 | eP | 30 | 19.00 | -0.6 | |
| | | i | | 23 | 54.20 | | TAB | 45.19 | 94 eP | 26.45.00 | GYA | 79.45 | 49 | P | 30 | 34.00 | 0.7 | |
| GUD | 25.18 | 156 | eP | 23 | 52.50 | 0.2 | MSL | 45.24 | 98 eP | 26.55.00 | CHG | 83.81 | 59 | iPd | 30 | 57.00 | 0.9 | |
| LMR | 25.21 | 136 | eP | 23 | 53.90 | 1.5 | BLA | 45.62 | 265 P | 26.48.00 | | 1.0s | 18.75nm | | | 5.3mb | | |
| | 1.0s | 16.00nm | | | 4.7mb | | | 1.2s | 64.93nm | 5.5mb | CHTO | 83.81 | 59 | eP | 30 | 56.30 | 0.2 | |
| VOY | 25.30 | 122 | eP | 23 | 54.00 | 0.7 | FBA | 45.85 | 333 eP | 26.49.90 | | 1.2s | 13.54nm | | | 5.0mb | | |
| ETOR | 25.41 | 152 | eP | 23 | 55.10 | 0.7 | IMA | 45.87 | 337 eP | 26.50.20 | KMZ | 84.41 | 138 | iP | 31 | 01.50 | 2.4 | |
| EPLA | 25.43 | 159 | eP | 23 | 55.80 | 1.3 | | 1.0s | 32.50nm | 5.3mb | PTZ | 86.82 | 133 | eP | 31 | 08.00 | -3.1X | |
| SRO | 25.50 | 114 | eP | 23 | 56.50 | 1.5 | EDM | 46.07 | 304 iPd | 26.50.30 | LSZ | 86.82 | 136 | eP | 31 | 14.00 | 2.9X | |
| LJU | 25.52 | 121 | eP | 23 | 54.50 | -0.8 | TOA | 48.02 | 330 eP | 27.07.70 | ZOBO | 89.36 | 228 | eP | 31 | 23.00 | -0.8 | |
| STJ | 25.56 | 245 | eP | 23 | 56.00 | 0.4 | LHS | 48.10 | 263 P | 27.07.50 | | | LR | | 04 | 16.00 | | |
| CEY | 25.74 | 122 | eP | 23 | 56.50 | -0.9 | TKL | 48.37 | 267 P | 27.09.20 | COO | 145.32 | 16 | ePKP | 38 | 05.00 | 0.6 | |
| MME | 25.77 | 129 | P | 23 | 59.40 | 1.5 | BHD | 48.42 | 99 eP | 27.09.00 | BWA | 148.59 | 23 | ePKP | 38 | 14.60 | 5.0X | |
| BDI | 25.85 | 129 | P | 24 | 00.00 | 1.5 | JSC | 48.46 | 263 P | 27.10.00 | CAN | 149.56 | 22 | ePKP | 38 | 16.00 | 5.0X | |
| EROD | 25.93 | 148 | e(P) | 23 | 58.30 | -0.9 | GBTN | 48.56 | 267 P | 27.10.20 | SPA | 154.43 | 180 | e(PKP) | 38 | 17.40 | 0.2 | |
| TOL | 25.94 | 156 | iPc | 24 | 00.50 | 1.2 | PMR | 49.10 | 332 eP | 27.14.60 | | 1.4s | 24.51nm | | | | | |
| | 1.8s | 545.45nm | | | 5.9mb | | | 1.2s | 35.20nm | 5.3mb | | | | | | | | |
| PSZ | 26.04 | 112 | eP | 24 | 00.50 | 0.3 | PRM | 49.11 | 264 P | 27.15.10 | | | | | | | | |
| BUD | 26.04 | 114 | e(P) | 24 | 01.00 | 0.9 | TTA | 49.16 | 336 eP | 27.15.30 | | | | | | | | |
| PII | 26.13 | 130 | P | 24 | 01.80 | 0.9 | RSCP | 49.20 | 268 P | 27.14.70 | | | | | | | | |
| PTJ | 26.17 | 120 | eP | 24 | 00.50 | -1.0 | | 1.0s | 26.00nm | 5.2mb | | | | | | | | |
| VBY | 26.25 | 121 | eP | 24 | 01.70 | -0.3 | FVM | 49.28 | 274 P | 27.15.40 | | | | | | | | |
| ZAG | 26.25 | 120 | eP | 24 | 01.00 | -1.1 | PWLA | 50.80 | 270 P | 27.26.20 | | | | | | | | |
| FIR | 26.33 | 128 | eP | 24 | 06.00 | 3.3X | PNT | 51.52 | 305 eP | 27.33.00 | | | | | | | | |
| PGD | 26.40 | 128 | P | 24 | 10.00 | 6.4X | | 0.8s | 27.00nm | 5.2mb | | | | | | | | |
| SFI | 26.40 | 127 | P | 24 | 05.70 | 2.3 | LRM | 51.82 | 298 eP | 27.35.10 | | | | | | | | |
| UZD | 26.60 | 115 | eP | 24 | 06.00 | 0.7 | OLY | 51.82 | 273 P | 27.34.40 | | | | | | | | |
| CVF | 26.63 | 133 | P | 24 | 04.85 | -0.8 | MHI | 52.35 | 84 iPd | 27.40.00 | | | | | | | | |
| ECHE | 26.81 | 151 | e(P) | 24 | 08.00 | 0.7 | BW06 | 53.25 | 293 P | 27.44.70 | | | | | | | | |
| ARV | 27.15 | 126 | P | 24 | 11.00 | 0.6 | GOL | 54.15 | 288 P | 27.52.80 | | | | | | | | |
| EVIA | 27.43 | 154 | e(P) | 24 | 14.00 | 1.0 | DAU | 55.93 | 293 P | 28.05.50 | | | | | | | | |
| MAO | 27.50 | 130 | Pd | 24 | 14.20 | 0.7 | DUG | 56.73 | 294 P | 28.11.60 | | | | | | | | |
| ESEL | 27.53 | 145 | e(P) | 24 | 15.00 | 1.2 | | 1.4s | 33.94nm | 5.2mb | | | | | | | | |
| EBAN | 27.66 | 156 | e(P) | 24 | 16.50 | 1.5 | WMO | 57.24 | 56 Pd | 28.14.80 | | | | | | | | |
| EHOR | 27.76 | 159 | e(P) | 24 | 16.70 | 0.8 | MSU | 57.92 | 293 P | 28.19.20 | | | | | | | | |
| EVAL | 27.77 | 162 | e(P) | 24 | 15.40 | -0.6 | TIC | 58.50 | 166 P | 28.22.14 | | | | | | | | |
| AAPN | 28.44 | 157 | eP | 24 | 24.00 | 1.8 | | 1.0s | 91.00nm | 5.8mb | | | | | | | | |
| ASMO | 28.45 | 157 | eP | 24 | 24.00 | 1.7 | ALO | 58.66 | 286 eP | 28.24.80 | | | | | | | | |
| EPRU | 28.59 | 159 | e(P) | 24 | 23.50 | 0.0 | | 1.3s | 26.44nm | 5.2mb | | | | | | | | |
| BZS | 28.60 | 113 | eP | 24 | 24.00 | 0.6 | KIC | 58.81 | 165 P | 28.24.34 | | | | | | | | |
| CRT | 28.64 | 157 | eP | 24 | 23.00 | -0.9 | | 1.1s | 115.00nm | 5.9mb | | | | | | | | |
| BEO | 28.80 | 115 | eP | 24 | 25.00 | -0.2 | LIC | 58.92 | 166 P | 28.25.18 | | | | | | | | |
| SDI | 29.03 | 127 | P | 24 | 26.90 | -0.5 | KUK | 59.54 | 160 eP | 28.30.00 | | | | | | | | |
| DUI | 29.30 | 126 | P | 24 | 30.50 | 0.7 | KOGH | 59.66 | 160 eP | 28.29.40 | | | | | | | | |
| MLR | 30.46 | 108 | ePd | 24 | 40.00 | -0.2 | KVN | 59.77 | 298 P | 28.32.10 | | | | | | | | |
| VR1 | 30.47 | 106 | ePc | 24 | 31.00 | -9.2X | SHGH | 59.85 | 160 eP | 28.33.00 | | | | | | | | |
| BCI | 30.73 | 118 | eP | 24 | 41.60 | -0.8 | MIN | 59.96 | 301 eP | 28.33.40 | | | | | | | | |
| SDA | 30.82 | 119 | eP | 24 | 42.40 | -0.8 | WDC | 60.09 | 302 eP | 28.43.60 | | | | | | | | |
| ISR | 30.99 | 108 | ePd | 24 | 46.00 | 1.2 | LEGH | 60.10 | 160 eP | 28.31.80 | | | | | | | | |
| KKS | 31.11 | 118 | eP | 24 | 45.00 | -0.8 | ORV | 60.61 | 301 eP | 28.38.30 | | | | | | | | |
| TAF | 31.16 | 156 | eP | 24 | 45.00 | -1.4 | CMB | 61.52 | 299 eP | 28.44.20 | | | | | | | | |
| MBC | 31.30 | 333 | eP | 24 | 48.00 | 0.8 | FRI | 62.18 | 298 eP | 28.48.90 | | | | | | | | |
| | 1.5s | 67.00nm | | | 5.3mb | | CLC | 62.40 | 295 eP | 28.50.00 | | | | | | | | |
| TIR | 31.53 | 119 | eP | 24 | 47.70 | -1.8 | LLA | 62.98 | 299 eP | 28.54.80 | | | | | | | | |
| SKO | 31.60 | 117 | iP | 24 | 48.00 | -2.1 | TPC | 63.29 | 293 eP | 28.57.00 | | | | | | | | |

S.D. = 1.1 on 250 of 277 obs.

* FEB 03, 1989 16h 03m 01.67±1.63s
 7.722 S ±14.1km 147.540 E ±23.4km
 DEPTH =

03d 16h

EBAN 7.43 77 eP 35 30.00 -0.4
 TIO 7.56 139 iPn 35 31.90 -0.5
 GUD 7.88 58 eP 35 36.50 -0.3
 EMON 7.89 31 eP 35 36.50 -0.3
 EVIA 8.49 75 eP 35 44.40 -0.9
 ETOR 9.41 62 eP 35 57.30 -0.6
 S.D. = 0.7 on 14 of 14 obs.

? FEB 03, 1989 16h 44m 02.06±1.29s
 9.475 S ±16.2km 118.646 E ±10.7km
 DEPTH = 33.0km (normal)
 3.5mb (2 obs.)

SUMBAWA ISLAND REGION (285)

TRT 6.20 286 ePd 45 33.60 -0.1
 MBL 11.67 175 eP 46 48.00 -1.4
 KNA 11.68 123 eP 46 50.00 0.5
 MTN 12.70 106 eP 47 03.00 -0.2
 NANU 13.35 193 eP 47 13.00 1.2
 0.2s 3.00nm 4.9mb X
 MEKA 17.05 180 eP 48 05.00 5.4X
 0.3s 2.00nm 3.8mb
 WARB 18.27 156 eP 48 11.00 -3.8X
 0.3s 2.00nm 3.8mb
 WB5 18.38 126 eP 48 18.70 2.5X
 0.4s 0.70nm 3.2mb
 WRA 18.39 126 Pd 48 20.10 3.8X
 MRWA 19.80 187 eP 48 37.80 5.1X
 0.4s 0.70nm 3.2mb
 S.D. = 1.4 on 5 of 10 obs.

FEB 03, 1989 17h 49m 58.63±0.17s
 30.231 N ±3.8km 89.958 E ±3.0km
 DEPTH = 10.0km (geophysicist)
 5.5mb (75 obs.) 5.2MsZ (3 obs.)

TIBET (306)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 10S, 24C

Centroid Location:

Origin Time 17:50:10.0 0.6

Lat 29.74N 0.08 Lon 90.13E 0.06

Dep 15.0 FIX Half-duration 2.1

Moment Tensor: Scale 10**17 Nm

Mrr=-0.84 0.09 Mtt=-1.10 0.11

Mff=1.94 0.09 Mrt=0.09 0.26

Mrf=-0.16 0.35 Mtf=-0.17 0.10

Principal Axes:

T Vol= 1.96 Plg= 3 Azm= 87

-0.82 74 345

P -1.13 16 178

Best Double Couple: Mo=1.5*10**17

NP1: Strike=221 Dip=77 Slip=-9

NP2: 313 82 -166

LSA 1.16 117 Pgc 50 12.90 -7.8X
 Sg 50 26.10
 GUN 4.25 238 P 51 07.70 2.5
 KKN 4.76 240 P 51 13.70 1.3
 PKI 4.79 238 P 51 14.40 1.6
 DMN 4.99 240 P 51 16.70 1.1
 GKN 5.16 246 P 51 18.30 0.4
 NDI 11.21 265 iP 52 41.50 -0.5
 0.5s 83.80nm 6.3mb
 CD2 11.91 83 P 52 51.00 -0.5
 Z 10s 17.40um
 S 55 05.00
 GTA 12.22 39 Pc 52 54.80 -0.9
 Z 10s 14.80um
 E 10s 17.60um
 KMI 12.41 111 Pc 52 56.00 -2.5
 Z 10s 7.60um
 N 10s 12.00um
 S 53 08.00
 S 55 12.00
 S 55 18.00
 LZH 13.01 60 eP 53 05.00 -1.4

2.0s 302.00nm 6.1mb
 Z 10s 13.40um
 Lg 56 28.00
 Lg 56 53.00
 WMQ 13.68 353 P 53 16.30 1.2
 Z 15s 7.30um
 CHG 13.99 142 iPc 53 17.00 -2.2
 1.1s 43.04nm 5.2mb
 CHTQ 13.99 142 eP 53 17.20 -2.0
 1.5s 79.96nm 5.3mb
 KSH 14.70 313 P 53 32.00 3.5X
 N 12s 17.10um
 S 56 22.00
 GYA 15.18 100 iPc 53 34.00 -0.8
 N 11s 12.20um
 S 56 22.00
 BDT 15.34 145 iPd 53 36.00 -0.8
 1.1s 147.40nm 5.2mb
 HYB 16.46 222 iPd 53 47.00 -4.3X
 1.0s 190.00nm 5.2mb
 XAN 16.50 72 P 53 49.90 -1.9
 6.0s 0.80nm 2.0mb X
 N 10s 7.50um
 E 10s 12.20um
 pP 53 55.90
 LOE 16.68 137 eP 53 52.00 -2.1
 NST 17.24 145 iPd 54 02.00 0.9
 POO 18.71 235 iPc 54 17.00 -2.3
 1.0s 50.00nm 4.7mb
 BTO 19.31 52 eP 54 25.50 -1.1
 N 12s 14.60um
 E 13s 8.40um
 S 58 02.00
 eSS 58 31.00
 NNT 19.75 151 eP 54 31.90 0.2
 TIY 20.05 62 iPc 54 34.50 -0.3
 1.2s 0.20nm 2.3mb X
 N 13s 16.70um
 S 58 09.00
 S 58 19.00
 GBA 20.19 218 P 54 35.00 -1.3
 S 58 23.00
 HHC 20.48 53 P 54 38.80 -0.4
 Z 14s 11.90um 5.4MsZ
 N 11s 13.20um
 S 54 52.50
 S 58 28.50
 WHN 21.04 83 iPc 54 46.00 1.0
 2.0s 1.96nm 3.1mb X
 Z 14s 15.50um 5.5MsZ
 E 12s 10.20um
 S 54 58.00
 iS 58 40.00
 QIZ 21.20 117 Pd 54 47.60 0.9
 N 11s 3.00um
 E 12s 2.00um
 GZH 22.05 103 iPc 54 55.00 -0.2
 S 58 56.00
 MCO 22.64 105 eP 55 03.00 1.9
 KOD 23.05 213 eP 55 07.00 1.4
 HKC 23.07 104 iPd 55 07.00 1.7
 S 59 20.00
 TIA 23.45 68 Pc 55 10.70 1.7
 Z 20s 4.40um 4.9MsZ
 N 15s 12.00um
 E 15s 3.20um
 S 59 26.50
 BJI 23.49 58 eP 55 11.50 2.2
 Z 10s 6.10um 5.4MsZ
 N 11s 13.60um
 E 11s 7.40um
 S 59 24.00
 NJ2 24.77 78 iPc 55 24.00 2.3
 3.0s 0.70nm 2.8mb X
 SNG 25.02 154 eP 55 16.20 -8.1X
 1.2s 671.88nm 6.2mb
 e 59 58.90
 QZH 25.88 95 eP 55 34.00 1.7
 Z 12s 5.40um 5.3MsZ
 N 12s 9.10um
 MH1 26.12 291 iPd 55 35.20 0.7
 e 00 04.00
 SSE 26.83 80 Pd 55 42.00 1.0
 1.2s 121.00nm 5.5mb
 Z 12s 4.20um 5.2MsZ

eS 00 16.00
 sS 00 34.00
 DL2 27.37 63 eP 55 47.50 1.7
 Z 14s 4.10um 5.2MsZ
 N 16s 10.30um
 IPM 27.57 156 ePd 55 50.10 2.2
 0.9s 27.30nm 5.0mb
 PSI 28.67 161 ePc 55 57.00 -0.8
 SNY 29.37 58 iPc 56 05.00 1.1
 Z 15s 4.80um 5.2MsZ
 N 12s 3.30um
 S 01 00.00
 CN2 31.16 54 Pc 56 20.50 0.8
 Z 13s 5.40um 5.4MsZ
 N 13s 9.00um
 pP 56 25.00 16kmX
 eS 01 26.00
 BAG 31.19 109 eP 56 21.00 0.6
 eS 00 48.00
 TEH 32.67 290 eP 56 35.00 1.7
 MDJ 34.24 54 eP 56 42.50 -4.1X
 Z 16s 3.10um 5.1MsZ
 N 12s 7.30um
 S 02 15.00
 KKM 34.48 129 ePd 56 50.50 1.5
 TAB 36.68 294 eP 57 10.00 2.4
 e 57 12.00
 BHD 38.64 287 iPd 57 25.00 1.1
 e 59 01.00
 MSL 39.30 292 ePd 57 30.00 0.6
 DAV 40.56 117 eP 57 43.20 3.2X
 TRT 43.55 146 iPc 58 05.60 1.2
 1.0s 62.30nm 5.3mb
 KVT 44.49 299 eP 58 12.90 0.9
 BHL 45.72 289 P 58 24.00 2.1
 IKL 46.89 293 eP 58 32.00 1.0
 BBTk 47.10 298 iPc+ 58 34.50 1.7
 e 00 40.00
 HRT 49.33 300 eP 58 49.00 -1.0
 YLV 49.58 299 iP 58 52.40 0.4
 ELL 49.80 294 eP 58 52.10 -1.6
 KHL 49.82 296 iP 58 52.70 -1.1
 CFR 49.96 305 eP 58 56.00 1.4
 CTT 50.21 300 eP 58 56.00 -0.7
 KCT 50.40 299 iP 59 01.40 3.3X
 VRI 50.90 306 ePc 59 03.50 1.7
 e 29 13.00
 KJF 51.18 330 iP 59 05.20 1.5
 0.9s 84.50nm 5.7mb
 JMB 51.39 302 iP 59 07.00 1.4
 MLR 51.48 306 ePc 59 07.00 0.6
 e 29 17.00
 IZM 51.55 297 eP 59 07.00 0.1
 SUF 51.64 328 iP 59 07.10 -0.1
 0.4s 11.40nm 5.2mb
 NUR 52.10 325 iP 59 12.20 1.5
 1.3s 135.70nm 5.7mb
 Z 18s 2.50um 5.3MsZ
 i 59 15.00
 LR 23 20.00
 PVL 52.20 303 iPc 59 14.00 2.4
 SOD 52.25 334 iP 59 11.30 -0.4
 KDZ 52.38 301 eP 59 15.00 1.9
 KEV 52.65 337 iP 59 16.50 1.8
 0.9s 47.30nm 5.4mb
 RZN 52.89 301 iP 59 18.00 0.9
 PGB 53.15 303 iP 59 19.00 0.2
 BZS 54.48 307 eP 59 30.00 1.6
 e 29 38.00
 VAY 54.54 301 eP 59 29.00 0.1
 SPC 54.90 311 iP 59 33.30 1.5
 KRA 55.00 312 eP 59 32.30 0.1
 Z 15s 1.80um 5.3MsZ
 N 15s 4.70um
 e 59 34.80
 SKO 55.24 302 iPd 59 33.50 -0.6
 1.5s 80.00nm 5.5mb
 i 59 37.00
 UPP 55.59 324 iP 59 35.50 -0.9
 i 59 37.50
 OHR 55.89 301 eP 59 36.20 -2.6
 SRO 56.37 310 eP 59 43.70 1.5
 e 01 52.30
 TIH 56.81 309 eP 59 49.00 3.7X
 ZST 57.11 310 eP 59 47.30 -0.1
 KSP 57.20 314 iPc 59 49.20 1.2
 1.6s 86.00nm 5.5mb

| | | | | | | | | | | | | | | | | | | | | |
|------|-------|---------|------|-------|--------|--------|-----|-------|---------|-----|----|-------|------|-------|---------|----------|-------|-------|-------|------|
| HFS | 57.55 | 325 | eP | 59 | 48.70 | -1.7 | ROB | 64.27 | 308 | P | 00 | 34.19 | -2.0 | | | | ic | 01 | 25.20 | |
| | 0.9s | 32.20nm | | | 5.4mb | | EMS | 64.36 | 310 | ePc | 00 | 36.00 | -1.0 | MBC | 72.19 | 7 | eP | 01 | 25.00 | -0.1 |
| Z | 18s | 1.64um | | | 5.2msz | | IMI | 64.37 | 307 | P | 00 | 34.91 | -2.0 | | 0.8s | 14.00nm | | | 5.1mb | |
| | | LR | 21 | 55.00 | | | LSD | 64.39 | 309 | P | 00 | 35.94 | -1.4 | ETOR | 72.35 | 307 | e(P) | 01 | 27.00 | 0.2 |
| NANU | 57.96 | 152 | iPc | 59 | 53.50 | -0.1 | RSP | 64.42 | 309 | P | 00 | 35.01 | -2.3 | IMA | 72.51 | 23 | eP | 01 | 29.20 | 1.9 |
| | 1.0s | 63.00nm | | | 5.6mb | | DOI | 64.63 | 308 | P | 00 | 37.50 | -1.1 | | 1.7s | 101.90nm | | | 5.6mb | |
| PTJ | 58.32 | 308 | eP | 59 | 56.10 | 0.1 | DOU | 64.64 | 315 | P | 00 | 39.70 | 1.2 | TTA | 73.49 | 26 | P | 01 | 38.00 | 5.0X |
| PRU | 58.45 | 313 | P | 59 | 57.50 | 0.7 | LPG | 64.65 | 309 | eP | 00 | 38.10 | -0.9 | | 1.4s | 42.61nm | | | 5.3mb | |
| | | e | 02 | 01.50 | | | | 1.2s | 65.40nm | | | 5.7mb | CTA | 73.72 | 125 | iPc | 01 | 39.50 | 4.7X | |
| NRA0 | 58.55 | 326 | P | 59 | 55.60 | -1.8 | STV | 64.66 | 308 | P | 00 | 35.94 | -2.9 | | 1.4s | 116.28nm | | | 5.7mb | |
| HVAR | 58.58 | 305 | iP | 59 | 55.60 | -2.2 | SBF | 64.70 | 308 | eP | 00 | 37.70 | -1.4 | GUD | 73.87 | 308 | e(P) | 01 | 35.00 | -0.7 |
| MBL | 58.62 | 147 | eP | 59 | 58.00 | -0.3 | | 1.0s | 37.60nm | | | 5.5mb | TOL | 74.13 | 307 | iPc | 01 | 38.50 | 1.4 | |
| VBY | 58.89 | 308 | eP | 00 | 00.80 | 0.9 | SNF | 64.71 | 315 | Pc | 00 | 39.80 | 0.9 | | 1.2s | 96.56nm | | | 5.7mb | |
| NAO | 58.89 | 326 | P | 59 | 58.00 | -1.7 | PZZ | 64.73 | 308 | P | 00 | 36.55 | -2.8 | SVW | 74.68 | 27 | eP | 01 | 43.20 | 3.3X |
| | 1.0s | 48.70nm | | | 5.6mb | | RRL | 64.81 | 309 | P | 00 | 37.68 | -2.3 | LSZ | 74.70 | 242 | iP | 01 | 41.20 | 0.5 |
| CLL | 59.16 | 315 | eP | 00 | 03.00 | 1.3 | BNI | 64.84 | 309 | P | 00 | 39.50 | -0.6 | | | i | 01 | 48.30 | | |
| | 1.9s | 71.00nm | | | 5.5mb | | FRF | 65.34 | 307 | eP | 00 | 41.50 | -1.6 | | | i | 02 | 03.20 | | |
| KHC | 59.23 | 312 | iPc | 00 | 03.50 | 1.2 | | 1.2s | 29.70nm | | | 5.4mb | FBA | 75.16 | 22 | P | 01 | 44.50 | 2.0 | |
| | | e | 00 | 14.40 | | | LMR | 65.51 | 307 | eP | 00 | 42.90 | -1.3 | KMZ | 75.43 | 245 | iPc | 01 | 45.00 | 0.1 |
| LJU | 59.26 | 308 | eP | 00 | 03.00 | 0.5 | | 1.2s | 32.10nm | | | 5.4mb | | | i | 01 | 55.80 | | | |
| CEY | 59.40 | 308 | eP | 00 | 04.00 | 0.5 | LRG | 65.57 | 307 | eP | 00 | 43.30 | -1.3 | EPLA | 75.44 | 308 | e(P) | 01 | 46.00 | 1.4 |
| NAI | 59.48 | 248 | iPd | 59 | 28.50 | -36.2X | | 1.0s | 28.00nm | | | 5.4mb | EHOR | 75.89 | 306 | e(P) | 01 | 47.50 | 0.3 | |
| VOY | 59.70 | 308 | eP | 00 | 05.50 | -0.1 | BAL | 65.63 | 155 | eP | 00 | 44.00 | -1.1 | INK | 76.61 | 15 | eP | 01 | 51.00 | 0.4 |
| RBL | 59.82 | 309 | P | 00 | 04.00 | -2.4 | WB5 | 65.64 | 134 | iPc | 00 | 44.90 | -0.4 | | 0.9s | 55.00nm | | | 5.6mb | |
| KBA | 59.83 | 310 | e(P) | 00 | 06.00 | -0.6 | WRA | 65.67 | 134 | Pd | 00 | 43.40 | -2.1 | PMR | 76.86 | 25 | eP | 01 | 52.50 | 0.4 |
| | 1.0s | 8.80nm | | | 4.8mb | | | 0.5s | 7.40nm | | | 5.1mb | | 1.0s | 80.00nm | | | 5.8mb | | |
| | | i | 00 | 10.00 | | | LOR | 65.99 | | | | | | | | | | | | |

03d 18h

ODD1 2.09 176 eS 20 27.53
 eP 20 21.48 -0.8
 eS 20 45.07
 RGS 2.15 60 eP 20 22.50 -0.6
 eS 20 48.80
 eP 20 28.79 -1.1
 eS 21 02.65
 NRA0 2.79 115 iPd 20 33.60 1.4
 iS 21 02.50
 iSg 21 08.30
 S.D. = 1.2 on 6 of 6 obs.

FEB 03, 1989 18h 21m 50.87 ± 0.42s
 20.475 N ± 9.1km 61.386 E ± 4.9km
 DEPTH = 10.0km (geophysicist)
 4.5mb (21 obs.)

ARABIAN SEA (417)

POO 11.91 97 eP 24 38.00 -5.9X
 RYD 14.28 290 eP 25 13.00 -2.4
 eS 27 44.50
 KMSA 15.84 273 eP 25 34.00 -1.6
 eS 28 19.30
 MHI 15.85 354 eP 25 34.00 -1.8
 HYB 16.52 98 eP 25 39.00 -5.4X
 0.8s 6.15nm 3.8mb
 e 25 45.00
 NDI 16.54 57 eP 25 40.50 -4.1X
 0.6s 26.67nm 4.5mb
 iS 28 28.00
 GBA 16.79 111 P 25 46.00 -1.8
 S 28 36.00
 KOD 18.53 121 eP 26 11.00 1.2
 GKN 22.46 66 P 26 51.10 -0.8
 KSH 22.70 30 eP 26 56.00 2.0
 DMN 22.77 67 P 26 54.60 -0.4
 0.8s 49.00nm 5.1mb
 KKN 22.97 67 P 26 56.30 -0.6
 PKI 23.03 67 P 26 57.10 -0.5
 GUN 23.51 67 P 27 03.40 1.1
 MBH 25.67 296 iPc 27 04.00 -18.6X
 HRI 26.11 305 eP 27 42.00 15.2X
 WMO 31.97 37 eP 28 19.20 -0.1
 CHTO 35.36 86 eP 28 49.00 0.2
 1.0s 2.75nm 4.1mb
 SKO 39.85 312 eP 29 27.20 0.9
 OHR 40.02 310 eP 29 28.20 0.4
 PSI 40.63 111 ePc 29 33.80 0.8
 XAN 44.00 62 P 29 59.30 -1.0
 BNG 44.59 255 ePd 30 08.50 3.2X
 0.6s 4.00nm 4.5mb
 BCAO 44.60 255 eP 30 07.00 1.6
 0.6s 2.38nm 4.3mb
 PTJ 44.89 315 eP 30 08.50 1.0
 LJU 45.88 315 eP 30 16.50 1.3
 VOY 46.31 315 eP 30 18.60 -0.1
 KBA 46.98 316 eP 30 25.50 1.4
 TIY 47.21 57 eP 30 26.50 0.6
 KHC 47.48 319 iPc 30 28.20 0.3
 CLL 48.58 321 iP 30 37.10 0.8
 1.2s 12.00nm 4.8mb
 SUF 48.59 339 iP 30 36.00 -0.2
 0.7s 6.00nm 4.8mb
 KJF 49.15 341 eP 30 40.00 -0.5
 SBF 50.27 310 eP 30 49.70 0.2
 0.8s 13.40nm 5.0mb
 LPG 51.03 312 eP 30 55.40 -0.2
 0.6s 1.80nm 4.2mb
 SOD 51.78 344 iP 31 02.60 2.1
 HFS 51.91 332 eP 31 00.10 -1.5
 0.5s 1.30nm 4.1mb
 LBF 53.19 314 eP 31 11.00 -0.4
 1.0s 8.80nm 4.7mb
 SMF 53.22 313 eP 31 11.70 0.0
 1.0s 8.00nm 4.6mb
 LOR 53.31 314 eP 31 12.10 -0.2
 KEV 53.46 346 eP 31 13.00 0.0
 NAO 53.49 332 P 31 11.40 -1.9
 0.9s 4.20nm 4.4mb
 SSF 53.52 314 eP 31 12.80 -1.0
 1.0s 4.80nm 4.4mb
 AVF 53.58 314 eP 31 14.00 -0.2
 0.8s 2.60nm 4.3mb
 CAF 54.23 311 eP 31 19.80 0.7
 1.0s 10.00nm 4.8mb
 RJF 54.65 312 eP 31 21.90 -0.3
 1.1s 9.70nm 4.7mb

LPO 54.82 311 eP 31 24.20 0.7
 1.0s 12.00nm 4.9mb
 LFF 55.16 311 eP 31 26.60 0.7
 1.0s 9.60nm 4.8mb
 WB5 81.91 115 eP 34 11.70 -0.8
 WRA 81.91 115 Pc 34 11.70 -0.8
 0.9s 2.30nm 4.3mb
 MBC 83.50 0 eP 34 20.00 0.3
 FRB 87.49 340 eP 34 40.50 0.8
 S.D. = 1.1 on 46 of 52 obs.

% FEB 03, 1989 18h 22m 08.99 ± 0.80s
 48.008 N ± 12.5km 6.374 E ± 6.1km
 DEPTH = 10.0km (geophysicist)

FRANCE (538)

ML 2.4 (LDG).

HAU 0.02 262 Pg 22 09.80 -1.2
 Sg 22 12.00
 BSF 0.33 122 Pg 22 15.70 -0.2
 Sg 22 21.50
 CDF 0.73 56 Pg 22 23.50 0.2
 Sg 22 33.20
 LOR 1.85 247 Pg 22 40.60 -0.5
 Sg 23 02.60
 LBF 1.92 239 Pg 22 41.90 -0.2
 Sg 23 05.20
 SSF 2.16 245 Pg 22 46.10 0.6
 Sg 23 11.40
 SMF 2.20 233 Pg 22 47.10 1.0
 Sg 23 13.80
 BGF 2.81 240 Pg 22 58.10 3.4X
 Sg 23 31.40
 S.D. = 0.9 on 7 of 8 obs.

FEB 03, 1989 18h 44m 32.64 ± 0.74s
 20.215 S ± 8.9km 178.617 W ± 4.8km
 DEPTH = 574.6 ± 9.6 km
 5.2mb (24 obs.)

FIJI ISLANDS REGION (181)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 13S, 23C

Centroid Location:

Origin Time 18:44:44.0 0.8

Lat 20.00S 0.07 Lon 179.18W 0.06

Dep 614.7 3.9 Half-duration 2.1

Moment Tensor: Scale 10**17 Nm

Mrr=-0.75 0.08 Mtt=-0.08 0.15

Mff=-0.83 0.12 Mrt=-1.86 0.12

Mrf=-0.73 0.13 Mtf=0.48 0.11

Principal Axes:

T Vol= 2.05 Plg=34 Azm=137

N 0.27 18 239

P -2.32 51 352

Best Double Couple: Ma=2.2*10**17

NP1: Strike=178 Dip=20 Slip=-152

NP2: 62 81 -72

AFI 9.06 47 eP 46 42.00 -0.3
 S 48 25.00
 PVC 12.61 279 iPc 47 21.00 3.5X
 DZM 14.06 260 iPc 47 34.00 1.9
 MSZ 26.83 202 eP 49 30.00 0.3
 e 49 49.80
 BRS 27.09 249 Pc 49 32.40 0.2
 i(pPP) 49 41.00
 TBI 27.23 102 iP 49 33.70 0.3
 0.8s 60.00nm 5.3mb
 AFR 27.40 89 iP 49 33.80 -1.1
 1.1s 140.00nm 5.5mb
 COO 28.49 243 iPc 49 45.40 1.0
 PMO 29.71 85 iP 49 52.80 -2.0
 1.1s 60.00nm 5.1mb
 VAH 29.90 86 iP 49 55.00 -1.5
 1.1s 70.00nm 5.2mb
 TPT 29.97 85 iP 49 56.00 -1.1
 1.1s 120.00nm 5.4mb
 RUV 30.14 86 iP 49 57.70 -0.8
 1.1s 110.00nm 5.4mb
 CAN 32.19 235 eP 50 17.00 1.2
 BWA 32.37 237 eP 50 12.90 -4.3X
 CTA 32.94 264 iPd 50 23.00 0.9
 CMS 33.77 243 eP 50 29.00 0.0
 PMG 34.72 283 iP 50 38.00 1.0
 0.8s 89.55nm 5.4mb
 TOO 35.60 233 iPd 50 44.80 0.7

STK 37.40 244 eP 51 00.00 1.2
 OIS 39.08 262 iPd 51 12.50 -0.2
 ASPA 44.02 257 iPd 51 51.90 0.0
 1.1s 105.00nm 5.3mb
 iPcP 53 23.80
 eS 57 39.90
 eScS 00 45.00
 WB5 44.05 262 iPc 51 51.20 -0.9
 e 57 40.80
 WRA 44.06 262 Pd 51 50.90 -1.3
 0.6s 26.70nm 4.9mb
 MTN 48.58 271 iPd 52 26.20 -0.5
 0.7s 195.00nm 5.7mb
 GUA 49.11 310 eP 52 29.50 -1.0
 0.6s 90.67nm 5.5mb
 PJG 49.18 310 eP 52 29.20 -1.8
 KNA 50.08 266 iPc 52 37.10 -0.5
 WARB 50.36 252 eP 52 32.00 -7.7X
 0.4s 13.00nm 4.8mb
 MBL 57.26 257 eP 53 26.60 -1.7
 0.4s 34.00nm 5.0mb
 MEKA 57.54 251 eP 53 28.70 -1.5
 0.4s 11.00nm 4.5mb
 NANU 60.91 255 iPc 53 51.80 -0.9
 0.4s 26.00nm 5.0mb
 ADK 71.81 1 P 54 57.50 -1.3
 0.6s 44.33nm 5.2mb
 BLP 77.63 46 P 55 32.00 0.4
 SYP 77.89 46 eP 55 34.00 0.8
 PRS 78.01 44 eP 55 34.30 0.7
 GCC 78.02 43 eP 55 33.90 0.3
 PCC 78.06 43 eP 55 34.20 0.4
 BCH 78.20 46 P 55 36.00 1.2
 SAO 78.22 44 e(P) 55 35.30 0.6
 BRK 78.36 42 eP 55 36.30 0.9
 PRI 78.36 44 eP 55 36.80 1.2
 MHC 78.44 43 eP 55 36.70 0.7
 LLA 78.46 44 eP 55 36.80 0.8
 ARN 78.51 43 P 55 36.60 0.3
 PAS 78.92 47 eP 55 39.00 0.6
 MWC 79.04 47 eP 55 40.00 0.7
 BAR 79.17 49 eP 55 41.00 1.2
 RVR 79.38 48 eP 55 41.00 0.2
 PLM 79.40 49 eP 55 41.00 -0.1
 SBB 79.45 47 eP 55 41.00 -0.3
 PEC 79.48 48 P 55 41.00 -0.4
 FRI 79.48 44 eP 55 41.60 0.4
 CMB 79.65 43 eP 55 42.40 0.2
 WDC 79.83 40 eP 55 43.50 0.5
 ORV 79.84 41 eP 55 43.30 0.2
 MDJ 79.95 325 eP 55 40.00 -3.5X
 CLC 80.23 46 eP 55 46.00 0.7
 MIN 80.25 41 eP 55 46.00 0.6
 TPC 80.37 48 eP 55 47.00 1.0
 GLA 80.68 50 eP 55 50.00 2.3
 LBFM 80.68 40 P 55 48.40 0.7
 MNA 81.31 44 eP 55 51.20 0.3
 AIA 81.46 157 eP 55 51.40 0.4
 KVN 81.70 43 P 55 52.80 -0.1
 CN2 81.72 323 P 55 52.00 -0.6
 TNP 81.73 44 P 55 53.00 -0.1
 BJI 85.28 316 eP 56 10.00 -0.2
 MSU 85.33 46 P 56 11.20 0.3
 PNT 86.74 34 eP 56 17.00 -0.1
 1.0s 65.00nm 5.3mb
 DAU 86.89 45 P 56 18.70 0.3
 ALQ 87.68 52 eP 56 21.20 -0.9
 1.0s 16.75nm 4.8mb
 IMA 88.06 10 P 56 22.40 -0.7
 0.8s 15.52nm 4.9mb
 FBA 88.09 13 P 56 21.30 -1.7
 0.8s 51.72nm 5.4mb
 LRM 88.86 40 eP 56 28.10 0.8
 BW06 89.16 43 P 56 28.00 -0.8
 0.8s 31.25nm 5.3mb
 CHG 89.60 290 iPd 56 32.00 1.0
 0.7s 13.70nm 5.0mb
 CHTO 89.60 290 eP 56 32.10 1.2
 GOL 90.55 48 P 56 35.00 -0.3
 SES 91.98 36 ePd 56 40.80 -0.5
 0.9s 40.00nm 5.4mb
 LZH 92.14 308 eP 56 43.00 0.5
 2.5s 79.00nm 5.3mb
 EDM 92.19 33 iP 56 42.00 -0.2
 INK 94.15 15 eP 56 50.00 -0.8
 MHI 127.10 301 ePKP 02 33.00 -0.9
 KJF 132.63 345 ePKP 02 43.00 -0.3

[illegible]

03d 22h

| | | | | |
|-----------------------------------|------------------------------------|----------------|------------------------------------|---------------|
| N 10s 0.70um | LAT 7.37 261 e(P) | 19 15.00 -0.4 | MBC 64.99 15 eP | 47 08.00 2.0 |
| E 10s 0.90um | PMG 8.09 241 iPc | 19 26.00 0.8 | 0.5s 6.00nm | 4.9mb |
| CN2 19.94 8 eP | CTA 16.46 208 iPd | 21 16.20 1.7 | KEV 71.15 340 eP | 47 45.00 0.6 |
| MDJ 21.50 16 eP | 1.1s 101.27nm | 5.0mb | SOD 72.53 338 eP | 47 53.00 0.3 |
| CHTO 21.77 261 eP | DZM 20.20 146 iPd | 21 56.00 -0.9 | KJF 73.85 335 eP | 48 00.00 -0.4 |
| 1.1s 17.08nm | QIS 20.68 222 iPc | 22 01.50 -0.1 | SUF 75.25 334 iP | 48 08.20 -0.3 |
| pP 15 52.30 34kmX | e 22 04.00 | | 0.5s 13.20nm | 5.2mb |
| GTA 23.98 315 iPd | GUA 21.12 334 eP | 22 06.20 0.1 | NUR 77.10 333 iP | 48 18.40 -0.6 |
| Z 14s 1.50um | 0.8s 131.34nm | 5.3mb | 0.5s 11.20nm | 5.2mb |
| E 11s 0.90um | GUMO 21.18 334 eP | 22 07.00 0.3 | UPP 80.26 334 iP | 48 34.70 -1.4 |
| WMO 34.05 314 P | 1.0s 180.00nm | 5.4mb | KVN 80.78 51 eP | 48 39.80 0.1 |
| WB5 45.40 163 eP | PJG 21.18 334 eP | 22 07.10 0.4 | pP 50 47.00 601kmX | |
| e 20 48.00 | RMQ 21.51 194 iPc | 22 10.40 0.4 | HFS 81.52 336 eP | 48 40.80 -2.0 |
| ASPA 48.91 165 eP | 1.0s 275.00nm | 5.6mb | 0.4s 13.30nm | 5.3mb |
| WAB 50.18 174 eP | BRS 21.79 184 Pc | 22 12.50 -0.3 | TNP 81.86 51 eP | 48 45.50 0.2 |
| 0.3s 4.00nm | MTN 24.01 251 eP | 22 35.00 0.7 | NAO 82.02 338 P | 48 44.00 -1.4 |
| MHI 54.28 298 eP | COO 25.02 185 iPd | 22 44.30 0.4 | 0.7s 10.80nm | 5.0mb |
| VRI 76.40 314 ePc | ASPA 26.68 225 eP | 22 57.80 -1.4 | BW06 84.37 44 eP | 48 56.50 -1.7 |
| FFC 93.07 24 eP | 0.4s 18.00nm | 5.0mb | S.D. = 1.2 on 19 of 20 obs. | |
| 0.9s 11.00nm | epP 23 22.90 116kmX | | | |
| S.D. = 1.5 on 18 of 27 obs. | esP 23 39.70 | | | |
| FEB 03, 1989 23h 07m 29.77±0.91s | CMS 27.03 196 eP | 23 04.00 1.8 | & FEB 03, 1989 23h 48m 46.70s | |
| 37.725 N ± 8.5km 20.964 E ± 4.9km | 1.0s 82.00nm | 5.2mb | 33.180 N 115.600 W | |
| DEPTH = 10.0km (geophysicist) | WARB 33.48 229 iPc | 23 52.70 -6.6X | DEPTH = 1.0km | |
| 3.9mb (2 obs.) | 0.3s 5.00nm | 4.8mb | SOUTHERN CALIFORNIA (43) | |
| IONIAN SEA (399) | FORR 35.23 221 iPc | 24 12.90 -1.3 | <PAS> ML 3.4 (PAS). Felt | |
| ML 3.5 (ATH). | 0.5s 43.00nm | 5.6mb | (III) at Calipatria. | |
| VLS 0.54 327 ePg | MBL 36.86 242 eP | 24 26.60 -1.4 | HAY 0.53 357 ePc | 48 57.60 0.4 |
| ATH 2.19 83 ePn | MSZ 40.77 165 eP | 25 01.00 0.9 | GLA 0.66 101 eP | 48 59.20 -0.7 |
| NEO 2.37 48 ePn | CN2 55.59 335 Pc | 26 54.00 -0.7 | IKP 0.68 219 ePd | 48 59.60 -0.7 |
| LSK 2.44 353 iPnd | CHTO 59.66 295 e(P) | 27 22.00 -1.7 | PLM 1.07 280 P | 49 05.70 -2.1 |
| KZN 2.65 13 ePb | CD2 60.36 310 eP | 27 28.20 -0.1 | PEC 1.48 299 P | 49 11.50 -3.1 |
| LIT 2.65 26 eP | GTA 67.22 317 P | 28 13.60 0.5 | QSM 2.97 340 eP | 49 43.00 7.1 |
| TPE 2.67 344 iPnc | GUN 73.79 301 P | 28 53.60 0.3 | GWY 3.12 344 eP | 49 46.20 8.0 |
| VLO 2.97 338 ePn | 0.7s 11.00nm | 4.8mb | YMT2 3.67 349 eP | 49 56.30 10.4 |
| PAIG 3.06 43 eP | PKI 74.10 301 P | 28 55.40 0.3 | PRN 4.24 6 eP | 50 05.50 11.5 |
| BERA 3.08 345 ePn | KKN 74.27 301 P | 28 55.60 -0.3 | KVN 6.20 342 e(P) | 50 23.00 1.2 |
| PLG 3.28 35 ePn | DMN 74.37 301 P | 28 56.90 0.4 | 10 obs. associated | |
| THE 3.29 28 eP | GKN 74.88 301 P | 28 59.50 0.2 | | |
| OHR 3.38 358 iPn | GBA 78.62 285 Pd | 29 19.50 -0.6 | | |
| GRG 3.41 19 eP | 0.8s 2.40nm | 4.0mb X | | |
| LCI 3.50 319 P | INK 88.59 21 eP | 30 11.00 1.4 | | |
| SOH 3.61 30 eP | S.D. = 0.9 on 33 of 34 obs. | | | |
| TIR 3.71 347 ePn | ? FEB 03, 1989 23h 21m 43.77±5.24s | | | |
| KNT 3.74 23 eP | 51.400 N ±36.4km 16.095 E ±34.0km | | | |
| VAY 3.80 19 ePn | DEPTH = 10.0km (geophysicist) | | | |
| SRS 3.95 30 eP | POLAND (548) | | | |
| SKO 4.26 5 iPn | ML 3.2 (VKA), 2.9 (KBA). | | | |
| iSn 09 26.00 | KSP 0.57 167 iPd | 21 55.30 -0.1 | DVD 1.21 346 iPc | 23 42.60 -0.9 |
| KKS 4.37 355 ePn | 0.4s 47.00nm | | i 23 56.60 | |
| ATN 4.37 277 P | iS 22 04.60 | | ACR 1.72 324 iPd | 23 50.50 -0.6 |
| SDA 4.43 346 e(Pn) | CLL 1.94 269 iPg | 22 17.10 0.0 | S 24 10.50 | |
| BCI 4.69 352 ePn | iSg 22 43.50 | | CDM 2.79 325 iPd | 24 07.40 0.5 |
| MEU 4.84 264 P | KHC 2.79 216 Pn | 22 29.00 -0.3 | OCR 2.95 318 eP | 24 08.10 -0.6 |
| eSn 09 37.70 | Pg 22 35.30 | | LCR2 3.08 324 iPd | 24 11.00 0.3 |
| MGR 4.86 301 P | eSn 23 00.00 | | S 24 47.00 | |
| RDO 4.92 45 ePn | Sg 23 15.20 | | UPA 3.11 56 ePc | 24 10.80 -0.1 |
| MNO 4.97 274 P | MOX 2.93 257 ePg | 22 37.00 5.8X | 0.8s 25.37nm | |
| MLR 8.61 24 eP | iSg 23 17.00 | | iS 24 47.50 | |
| HFS 22.90 351 eP | VKA 3.14 177 iPg | 22 43.30 9.1X | ICR 3.18 329 eP | 24 12.60 0.2 |
| 0.4s 2.00nm | iSg 23 27.60 | | S 24 58.60 | |
| NAO 23.99 348 P | KBA 4.69 204 iPn | 22 56.70 0.3 | IRZ2 3.21 327 ePc | 24 14.10 1.4 |
| 0.8s 2.80nm | i 24 17.00 | | SJS 3.27 325 iPd | 24 14.00 0.6 |
| 3.9mb | S.D. = 0.4 on 4 of 6 obs. | | S 24 52.80 | |
| SUF 25.23 6 iP | ? FEB 03, 1989 23h 36m 27.59±1.48s | | HDC2 3.38 325 iPd | 24 15.20 0.2 |
| INK 72.57 350 eP | 28.469 N ±34.3km 140.343 E ±15.4km | | S 24 31.30 | |
| WB5 120.16 93 iPd | DEPTH = 33.0km (normal) | | PTCR 3.38 318 ePc | 24 14.40 -0.6 |
| STK 131.60 102 ePd | 5.1mb (10 obs.) | | S 24 30.20 | |
| S.D. = 1.1 on 29 of 36 obs. | BONIN ISLANDS REGION (212) | | POA2 3.57 325 iPd | 24 18.20 0.3 |
| FEB 03, 1989 23h 17m 28.95±0.59s | CHTO 38.96 265 eP | 43 52.90 0.4 | CAO 3.80 310 ePd | 24 20.10 -0.8 |
| 5.527 S ±5.2km 154.321 E ±5.5km | 0.6s 0.84nm | 3.7mb X | S.D. = 0.7 on 13 of 13 obs. | |
| DEPTH = 115.3 ± 6.3 km | GUN 47.65 283 P | 45 04.10 0.9 | % FEB 04, 1989 02h 33m 19.14±1.12s | |
| 5.2mb (9 obs.) | 0.6s 24.00nm | 5.4mb | 31.642 S ±13.3km 68.546 W ±14.0km | |
| SOLOMON ISLANDS (193) | PKI 48.14 283 P | 45 07.10 0.1 | DEPTH = 33.0km (normal) | |
| PAA 1.40 124 iPd | 0.5s 6.00nm | 4.9mb | SAN JUAN PROVINCE, ARGENTINA (137) | |
| eS 18 08.00 | KKN 48.19 283 P | 45 07.60 0.3 | RTCV 0.22 178 iPc | 33 25.70 -0.3 |
| RAB 2.52 302 iPd | 0.6s 13.00nm | 5.1mb | CFA 0.26 83 iPd | 33 26.50 0.0 |
| 0.4s 542.37nm | DMN 48.39 283 P | 45 09.10 0.3 | RTCB 0.27 306 iPc | 33 28.00 1.4 |
| iS 18 45.00 | 0.4s 10.00nm | 5.2mb | S 33 41.00 | |
| VSG 6.50 125 eP | GKN 48.69 283 P | 45 11.40 0.4 | RTLL 0.32 12 iPc | 33 28.00 0.8 |
| eS 20 10.00 | GBA 59.95 270 Pc | 46 29.60 -3.7X | S 33 41.80 | |
| HNR 6.79 125 eP | 0.8s 3.00nm | 4.5mb | RTRS 1.66 332 iPc | 33 44.50 -1.9 |
| eS 20 20.00 | INK 62.47 25 eP | 46 52.00 2.4 | S.D. = 1.8 on 5 of 5 obs. | |
| LMG 6.98 241 iPd | | | ? FEB 04, 1989 04h 51m 37.67±3.10s | |
| | | | 6.417 S ±26.9km 147.798 E ±23.3km | |
| | | | DEPTH = 77.8 ± 12.0 km | |

EAST PAPUA NEW GUINEA REGION (207)

LAT 0.83 253 iPc 51 54.80 0.0
 LMG 2.50 172 eP 52 16.00 -1.1
 PMG 3.04 192 iPc 52 25.50 1.1
 1.0s 100.00nm
 MNDI 4.12 273 eP 52 40.00 0.2
 QIS 16.15 209 iPc 55 21.80 0.5
 WB5 18.69 223 eP 55 51.00 -1.6
 RMQ 19.98 177 eP 56 07.00 0.6
 BRS 21.39 168 iPc 56 20.80 0.0
 ASPA 21.74 216 iPd 56 24.60 0.3
 0.4s 20.00nm 4.9mb

S.D. = 1.1 on 9 of 9 obs.

FEB 04, 1989 06h 52m 55.70 ± 0.16s
 45.646 N ± 3.7km 143.083 E ± 3.7km
 DEPTH = 330.8km (3 depth phases)
 4.9mb (23 obs.)

HOKKAIDO, JAPAN REGION (224)

Felt (1 JMA) at Kushiro. Also
 felt (1 JMA) at Hachinohe,
 Honshu.

KUS 2.83 160 eP 53 51.00 -1.4
 S 54 33.60
 SAP 2.88 207 iP 53 53.20 0.4
 eS 54 37.00
 HAC 5.24 193 eP 54 16.00 -1.7
 eS 55 16.00
 AOMJ 5.46 202 P 54 19.60 -0.5
 S 55 22.60
 OFUJ 6.64 190 iP+ 54 32.80 -1.2
 S 55 47.40
 YAMJ 7.80 198 P 54 47.40 -0.5
 S 56 14.10
 NIJ 8.94 201 iPd 55 01.20 -0.4
 MDJ 9.59 269 Pd 55 09.50 0.0
 eS 56 55.00
 PcP 00 47.00
 KAKJ 9.68 194 P 55 08.40 -2.2
 S 56 51.70
 MTMJ 9.89 206 P 55 13.50 0.3
 CHJJ 10.07 199 iPd 55 15.00 -0.4
 IIDJ 10.89 203 P 55 24.80 -0.6
 TSRJ 11.44 211 P 55 32.10 0.1
 CN2 12.68 268 iPd 55 45.00 -1.9
 3.0s 0.30nm 2.1mb X
 eSP 56 58.00
 S 58 00.00

YONJ 12.75 218 eP 55 47.80 0.0
 WKYJ 12.77 209 P 55 47.70 -0.4
 TKSJ 13.55 214 P 55 57.20 -0.1
 SHK 13.65 219 iP 56 00.00 1.5
 0.8s 328.36nm 5.8mb
 SNY 14.60 262 iPd 56 08.00 -1.4
 iS 58 46.00

SHNJ 14.71 223 P 56 11.90 1.3
 KUMJ 16.16 220 eP 56 26.60 0.6
 DL2 17.22 255 Pc 56 37.00 0.0
 S 59 40.00

KAGJ 17.28 218 eP 56 37.80 0.1
 BJI 20.46 264 P 57 09.00 -0.2
 eS 00 24.00

TIA 21.68 253 eP 57 22.20 1.1
 S 01 04.00

HHC 23.37 269 eP 57 38.60 1.5
 TIY 24.11 262 eP 57 45.00 1.1
 BTO 24.55 270 eP 57 48.00 0.1
 XAN 28.47 258 P 58 22.90 -0.1
 LZH 30.91 266 eP 58 45.00 0.6
 1.5s 154.00nm 5.2mb

GTA 32.18 274 Pd 58 56.60 1.2
 2.5s 0.40nm 2.4mb X
 S 03 44.50
 ScP 04 49.30
 ScS 08 48.20

CD2 33.83 258 eP 59 10.20 0.9
 GYA 34.73 249 P 59 17.20 0.2
 WMO 38.73 288 iPd 59 50.00 0.0
 CHG 45.15 249 iPd 00 43.70 1.8
 1.1s 27.22nm 4.4mb

CHTO 45.15 249 iPd 00 43.10 1.2
 0.8s 15.92nm 4.3mb
 pP 01 48.90 322km

INK 46.25 31 ePc 00 48.00 -1.9
 0.4s 18.00nm 4.7mb

MBC 47.94 19 eP 01 01.00 -1.9
 0.7s 13.00nm 4.3mb
 GUN 48.08 269 P 01 05.50 0.5
 KKN 48.57 269 P 01 09.20 0.6
 PKI 48.62 269 P 01 09.40 0.4
 DMN 48.81 269 P 01 11.10 0.7
 GKN 48.89 270 P 01 11.20 0.3
 YKC 55.88 33 iPd 02 00.20 -1.2
 0.6s 40.00nm 5.0mb

KJF 59.38 333 eP 02 23.00 -2.6
 PGC 59.65 50 eP 02 28.00 0.4
 HYB 60.00 264 eP 02 30.00 -0.4
 0.8s 38.50nm 5.0mb

SUF 60.92 332 iP 02 33.60 -2.3
 0.4s 8.40nm 4.6mb

MHI 61.10 294 eP 02 38.00 0.4
 RMW 61.24 50 P 02 38.30 -0.1
 PNT 61.28 48 eP 02 38.00 -0.5
 0.6s 23.00nm 4.9mb

LON 61.67 51 P 02 41.00 -0.2
 EDM 61.93 41 eP 02 42.00 -0.8
 1.0s 79.00nm 5.2mb

NUR 63.00 331 iP 02 47.20 -2.3
 GBA 63.40 262 Pd 02 51.90 -0.8
 0.4s 9.70nm 4.8mb

SES 64.86 43 ePc 03 01.20 -0.6
 LBFM 64.99 56 P 03 03.50 0.5
 WDC 65.10 57 eP 03 04.00 0.6
 MIN 65.80 57 eP 03 08.10 0.1

FFC 65.86 35 iPc 03 07.70 -0.3
 0.8s 84.00nm 5.5mb

ORV 66.37 57 eP 03 11.40 0.0
 HFS 66.78 335 eP 03 10.90 -2.8
 0.5s 3.70nm 4.4mb

BKS 67.02 59 eP 03 16.00 0.5
 0.9s 47.00nm 5.2mb

NAO 67.04 337 P 03 13.00 -2.2
 1.0s 6.60nm 4.3mb

PCC 67.18 59 eP 03 16.50 0.1
 LRM 67.24 47 eP 03 17.10 0.1
 ARN 67.79 59 P 03 20.50 0.2

CMB 68.02 58 eP 03 22.40 0.7
 FRB 68.12 15 eP 03 20.00 -1.8
 0.8s 44.00nm 5.2mb

PRS 68.55 60 eP 03 25.40 0.5
 LLA 68.62 59 eP 03 26.00 0.7
 KVN 68.69 56 P 03 26.40 0.5

pP 04 42.00 336km
 FRI 69.12 58 eP 03 28.60 0.3
 TNP 69.85 56 P 03 33.30 0.3

pP 04 49.00 335km
 ISA 70.74 59 eP 03 38.00 -0.2
 BW06 70.84 48 P 03 38.30 -0.6

DUG 70.90 52 P 03 40.00 0.8
 CLC 71.16 58 eP 03 41.00 0.3
 SBB 71.80 59 eP 03 45.00 0.6

MWC 71.97 59 eP 03 46.00 0.4
 MSU 72.43 53 P 03 49.30 1.1
 KRA 72.68 326 eP 03 49.10 0.0

TPC 73.26 58 eP 03 53.00 0.1
 MLR 73.65 319 ePc 03 56.00 1.0
 BAR 73.87 60 eP 03 57.00 0.6

CLL 74.26 330 iPc 03 58.00 -0.2
 0.9s 10.00nm 4.5mb

GLA 74.72 58 eP 04 02.00 0.8
 GOL 75.25 48 P 04 05.30 1.0
 ZST 75.29 326 eP 04 04.70 0.6

KHC 75.86 328 iPc 04 08.30 1.0
 SCH 76.76 17 eP 04 12.00 -0.1
 KBA 77.66 327 iPc 04 17.70 0.3

0.5s 8.00nm 4.8mb
 ALO 78.18 52 eP 04 21.50 1.1
 1.0s 17.00nm 4.8mb

VAY 78.43 319 eP 04 22.30 0.9
 SKO 78.44 320 iP 04 22.50 1.0
 OHR 79.42 319 eP 04 26.50 -0.2

GAC 82.88 26 ePc 04 44.50 0.1
 SIO 82.88 45 eP 04 45.30 0.6
 LNO 83.00 44 ePc 04 46.10 0.9

TUL 83.00 44 eP 04 46.60 1.3
 0.7s 36.80nm 5.3mb

RLO 83.18 44 ePc 04 47.00 0.8
 CBM 83.81 21 P 04 49.00 -0.1
 FVM 83.85 40 P 04 49.50 0.0

RSNY 84.21 26 P 04 50.00 -1.2
 0.7s 5.83nm 4.5mb
 ELC 84.96 39 P 04 55.80 0.8

BNH 85.14 24 P 04 56.00 0.2
 MIM 85.14 22 P 04 55.50 -0.3
 RSCP 87.97 38 P 05 09.70 0.0
 BLA 88.69 33 P 05 14.00 1.0
 1.0s 40.00nm 5.3mb
 JSC 90.91 35 P 05 23.00 -0.2
 S.D. = 1.0 on 110 of 110 obs.

% FEB 04, 1989 07h 00m 45.53 ± 0.83s
 37.698 N ± 6.7km 3.574 W ± 8.2km
 DEPTH = 5.0km (geophysicist)

SPAIN (377)
 MG 2.6 (MDD).

AFC 0.44 177 iPgc 00 53.70 -0.8
 EBAN 0.49 340 iPg 00 55.70 0.2
 iSg 01 02.80

EVIA 1.26 42 iPgc 01 08.70 -0.8
 iSg 01 25.20
 ENIJ 1.30 123 ePg 01 11.20 1.1
 eSg 01 27.60

EHOR 1.33 276 ePn 01 10.80 0.2
 eSn 01 29.00
 S.D. = 1.1 on 5 of 5 obs.

* FEB 04, 1989 07h 15m 55.95 ± 0.77s
 30.178 N ± 11.1km 90.122 E ± 8.3km
 DEPTH = 10.0km (geophysicist)
 4.2mb (1 obs.)

TIBET (306)

GUN 4.35 240 P 17 06.20 2.3
 KKN 4.86 242 P 17 12.40 1.3
 PKI 4.88 239 P 17 11.70 0.2

DMN 5.09 241 P 17 14.10 -0.2
 GKN 5.27 247 P 17 16.20 -0.6
 LZH 12.92 59 eP 19 04.50 2.1

2.0s 55.00nm 5.4mb X
 CHG 13.86 143 eP 19 13.60 -1.2
 CHTO 13.86 143 e(P) 19 14.00 -0.8

HYB 16.52 222 eP 19 50.90 1.5
 eS 24 38.50

POO 18.79 236 eP 20 15.00 -2.7
 QUE 20.03 276 eP 20 30.50 -1.6
 GBA 20.23 218 P 20 35.00 1.0

SNG 24.91 155 eP 21 25.00 4.4X
 MHI 26.27 292 eP 21 33.00 -0.3
 SUF 51.76 328 iP 25 04.30 -1.1

HFS 57.68 325 eP 25 43.60 -5.0X
 0.4s 0.90nm 4.2mb
 INK 76.63 15 eP 27 48.00 0.0

S.D. = 1.5 on 15 of 17 obs.

* FEB 04, 1989 08h 17m 08.08 ± 1.10s
 56.167 N ± 14.9km 154.502 W ± 12.2km
 DEPTH = 33.0km (normal)
 4.4mb (1 obs.)

KODIAK ISLAND REGION (13)
 ML 4.6 (PMR).

KDC 1.93 34 iPd 17 39.70 0.5
 eS 18 18.00

SDN 3.49 259 eP 18 01.00 -0.3
 SVW 4.99 354 eP 18 29.00 6.3X
 PMR 6.11 25 eP 18 36.90 -1.5

TTA 6.83 354 eP 18 56.00 7.5X
 FBA 9.36 18 eP 19 23.60 0.0
 INK 15.49 30 eP 20 45.00 -0.3

YKC 21.09 56 eP 21 51.00 -0.5
 PNT 22.02 93 eP 22 01.00 0.0
 1.0s 17.00nm 4.4mb

MBC 23.89 20 eP 22 21.00 2.0
 S.D. = 1.2 on 8 of 10 obs.

& FEB 04, 1989 09h 05m 16.61s
 61.476 N 150.245 W
 DEPTH = 43.8km

SOUTHERN ALASKA (2)
 <AGS-P>. ML 3.0 (PMR).

PWA 0.25 45 iP 05 24.29 -0.4
 PMS 0.40 125 iP 05 26.06 -0.4
 PLRM 0.55 77 iP 05 27.33 -0.8

iS 05 36.65
 PMR 0.55 77 iPd 05 27.40 -0.7
 PME 0.60 75 iP 05 28.21 -0.7

GHO 0.70 64 iP 05 29.55 -0.7

| | | | | | | | | | | | | | | | | | |
|-------------------------------------|------------|------------|-------|----------|-------|------|-------|---------|-----|----------|---------|-------------------------------------|--------|---------|-----|----------|-------------------------------|
| PTE | 0.85 | 135 | iP | 05 40.81 | -0.6 | PIP | 6.32 | 204 | iPc | 46 26.00 | 0.0 | PSZ | 80.88 | 318 | eP | 57 03.40 | 0.4 |
| | | | iS | 05 31.73 | | SSE | 7.16 | 345 | P | 46 37.00 | -0.8 | VTG | 81.02 | 313 | iP | 57 05.00 | 1.0 |
| | | | iS | 05 44.02 | | | | | Lg | 48 41.50 | | KSP | 81.65 | 322 | iP | 57 07.40 | 0.5 |
| KNK | 0.86 | 93 | iP | 05 32.00 | -0.5 | NJ2 | 8.79 | 334 | eP | 47 00.00 | -0.3 | | 1.0s | 25.00nm | | | 5.2mb |
| | | | iS | 05 44.76 | | Z | 20s | 0.70um | | | | VAY | 81.98 | 312 | iP | 57 08.50 | -0.3 |
| NKA | 0.88 | 214 | eP | 05 33.54 | 0.9 | | | | S | 48 32.50 | | YKA | 82.24 | 23 | P | 57 10.50 | 0.8 |
| SPU | 0.92 | 252 | iP | 05 32.72 | -0.6 | GZH | 9.20 | 265 | P | 47 04.50 | -1.4 | YKC | 82.29 | 23 | iPc | 57 10.00 | 0.0 |
| CRP | 0.94 | 258 | iP | 05 33.18 | -0.6 | WHN | 10.19 | 311 | eP | 47 19.50 | 0.0 | | 0.8s | 30.00nm | | | 5.4mb |
| | | | iS | 05 46.61 | | Z | 14s | 1.19um | | | | SKO | 82.47 | 313 | iPc | 57 11.50 | 0.1 |
| SLKM | 0.97 | 179 | iP | 05 33.12 | -0.9 | | | | eS | 49 10.00 | | | 0.8s | 58.00nm | | | 5.6mb |
| SML | 0.97 | 69 | iP | 05 33.12 | -0.9 | TIA | 13.15 | 337 | eP | 48 02.90 | 3.8X | CLL | 83.23 | 324 | eP | 57 15.00 | -0.1 |
| RDT | 1.39 | 230 | iP | 05 39.04 | -0.9 | QIZ | 13.52 | 250 | eP | 48 13.00 | 8.9X | | 1.3s | 21.00nm | | | 5.0mb |
| | | | iS | 05 56.51 | | PPR | 14.95 | 198 | iPc | 48 29.00 | 6.2X | OHR | 83.28 | 312 | eP | 57 14.00 | -1.6 |
| SEW | 1.43 | 164 | eP | 05 38.91 | -1.5 | GYA | 15.23 | 282 | P | 48 32.40 | 5.9X | KHC | 84.01 | 322 | iPc | 57 20.00 | 0.8 |
| NNL | 1.53 | 200 | eP | 05 42.11 | 0.2 | | | | S | 51 21.20 | | | 1.0s | 7.50nm | | | 4.7mb |
| RED | 1.63 | 230 | eP | 05 42.52 | -0.8 | TIY | 16.40 | 328 | iPd | 48 45.50 | 4.2X | VBY | 84.82 | 318 | ePd | 57 24.40 | 1.2 |
| VZW | 1.83 | 102 | iP | 05 44.74 | -1.5 | N | 11s | 0.40um | | | | GRB3 | 84.90 | 322 | eP | 57 24.40 | 0.8 |
| VLZ | 1.92 | 99 | iP | 05 45.73 | -1.6 | BJI | 16.94 | 341 | eP | 48 50.00 | 2.0 | GRF | 1.2s | 25.00nm | | | 5.2mb |
| | | | iS | 06 09.54 | | SNY | 17.63 | 1 | eP | 48 57.90 | 1.4 | | 85.04 | 323 | eP | 57 24.40 | 0.1 |
| FLIM | 1.93 | 225 | eP | 05 46.82 | -0.8 | CD2 | 18.58 | 296 | eP | 49 08.20 | -0.2 | | 1.2s | 15.00nm | | | 5.0mb |
| CNPM | 2.02 | 195 | eP | 05 47.50 | -1.3 | KMI | 18.72 | 277 | Pc | 49 11.00 | 0.7 | BHG | 85.13 | 321 | iPd | 57 25.00 | 0.9 |
| TOA | 2.04 | 70 | iP | 05 48.79 | -0.3 | Z | 18s | 0.90um | | | | AVY | 85.17 | 247 | eP | 57 26.70 | 1.2 |
| | | | iS | 06 15.46 | | | | | eS | 51 16.00 | | KBA | 85.19 | 320 | iPd | 57 25.00 | -0.3 |
| KLU | 2.08 | 88 | iP | 05 47.97 | -1.7 | HHC | 19.34 | 332 | eP | 49 17.00 | -0.1 | | 0.8s | 10.00nm | | | 5.0mb |
| HIN | 2.12 | 119 | eP | 05 48.21 | -2.1 | CN2 | 19.68 | 5 | eP | 49 19.40 | -1.2 | HVAR | 85.20 | 315 | iPd | 57 24.70 | -0.5 |
| MCK | 2.34 | 14 | eP | 05 52.89 | -0.6 | BTO | 19.83 | 329 | P | 49 22.00 | -0.3 | CEY | 85.21 | 318 | eP | 57 25.30 | 0.1 |
| CVA | 2.38 | 111 | eP | 05 54.29 | 0.3 | LZH | 20.57 | 310 | eP | 49 30.00 | -0.1 | VOY | 85.39 | 319 | iP | 57 25.40 | -0.8 |
| PDB | 2.58 | 231 | eP | 05 55.37 | -1.5 | | 1.5s | 44.00nm | | | 4.6mb | MEM | 87.32 | 325 | P | 57 36.40 | 1.0 |
| | | | eS | 06 26.82 | | MDJ | 21.05 | 13 | eP | 49 34.00 | -0.7 | WLF | 87.80 | 325 | P | 57 38.00 | 0.3 |
| SVW | 2.62 | 264 | iP | 05 55.71 | -1.8 | LOE | 21.25 | 256 | eP | 49 15.80 | -21.1X | CDF | 87.92 | 323 | eP | 57 38.50 | 0.0 |
| SGAM | 2.64 | 110 | eP | 05 55.03 | -2.7 | CHG | 23.27 | 262 | iPc | 49 58.80 | 1.9 | | 1.0s | 12.00nm | | | 5.1mb |
| PAX | 2.69 | 54 | eP | 05 58.08 | -0.5 | | 0.8s | 10.45nm | | | 4.3mb | DOU | 88.36 | 326 | P | 57 41.10 | 0.7 |
| RAGM | 2.93 | 109 | eP | 06 02.69 | 0.8 | CHTO | 23.27 | 262 | eP | 49 58.30 | 1.4 | BSF | 88.51 | 323 | eP | 57 41.00 | -0.4 |
| CDD | 3.07 | 215 | eP | 06 02.76 | -1.0 | | 0.7s | 5.24nm | | | 4.1mb X | | 0.8s | 6.40nm | | | 4.9mb |
| TTA | 3.07 | 301 | iPc | 06 01.50 | -2.4 | | | | pP | 50 12.80 | 62kmX | HAU | 88.66 | 323 | eP | 57 41.80 | -0.2 |
| HMT | 3.14 | 109 | eP | 06 01.53 | -3.3 | GTA | 25.00 | 313 | Pc | 50 12.80 | -0.8 | EDM | 88.67 | 30 | ePc | 57 43.10 | 1.2 |
| FBA | 3.61 | 17 | eP | 06 09.80 | -1.7 | NNT | 25.11 | 247 | eP | 50 16.00 | 1.3 | LSD | 89.67 | 321 | P | 57 47.46 | 0.4 |
| WAX | 3.75 | 103 | eP | 06 10.24 | -3.2 | PPI | 33.05 | 226 | ePd | 51 27.00 | 1.1 | FIN | 89.76 | 319 | P | 57 46.23 | -1.0 |
| KDC | 3.91 | 198 | eP | 06 15.20 | -0.4 | GUN | 33.75 | 285 | P | 51 32.60 | 0.3 | LPG | 89.88 | 321 | eP | 57 48.50 | 0.4 |
| CTGM | 4.34 | 93 | eP | 06 19.96 | -2.0 | | 0.8s | 42.00nm | | | 5.4mb | | 0.8s | 25.50nm | | | 5.6mb |
| IMA | 4.86 | 343 | eP | 06 27.30 | -1.8 | PKI | 34.18 | 284 | P | 51 35.80 | -0.2 | ROB | 89.92 | 320 | P | 57 47.05 | -1.0 |
| HYT | 6.20 | 90 | P | 06 45.40 | -2.7 | | 0.8s | 18.00nm | | | 5.1mb | RRL | 90.20 | 321 | P | 57 49.61 | 0.1 |
| INK | 9.84 | 39 | eP | 07 34.00 | -4.3 | KKN | 34.29 | 284 | P | 51 36.60 | -0.2 | SBF | 90.42 | 319 | eP | 57 49.90 | -0.4 |
| | 41 obs. | associated | | | | | 0.8s | 36.00nm | | | 5.4mb | | 0.9s | 11.10nm | | | 5.2mb |
| | | | | | | DMN | 34.45 | 284 | P | 51 38.00 | -0.2 | LBF | 90.56 | 323 | eP | 57 50.60 | -0.3 |
| | | | | | | | 1.0s | 52.00nm | | | 5.4mb | | 1.0s | 10.00nm | | | 5.1mb |
| ? FEB 04, 1989 09h 33m 39.28± 8.70s | | | | | | GKN | 34.85 | 285 | P | 51 41.20 | -0.3 | SSF | 90.77 | 324 | eP | 57 52.60 | 0.8 |
| 51.220 N ±65.5km 19.810 E ±41.5km | | | | | | WMQ | 35.08 | 313 | eP | 51 42.90 | -0.4 | | 1.0s | 4.00nm | | | 4.8mb |
| DEPTH = 10.0km (geophysicist) | | | | | | GBA | 44.48 | 265 | Pc | 53 01.00 | -0.2 | SMF | 90.84 | 323 | eP | 57 52.10 | 0.0 |
| POLAND (548) | | | | | | | 1.1s | 8.80nm | | | 4.5mb | | 0.8s | 8.50nm | | | 5.2mb |
| ML 2.7 (KRA). | | | | | | WB5 | 45.08 | 165 | eP | 53 05.30 | -0.6 | AVF | 91.02 | 323 | eP | 57 52.70 | -0.2 |
| | | | | | | | | | i | 54 45.80 | | | 0.8s | 6.70nm | | | 5.1mb |
| KRA | 1.17 | 176 | ePg | 34 00.00 | -1.1 | WRA | 45.13 | 165 | Pd | 53 06.00 | -0.3 | FRF | 91.06 | 319 | eP | 57 53.00 | -0.2 |
| | | | iSg | 34 09.60 | | | 0.9s | 14.00nm | | | 4.8mb | | 0.8s | 5.30nm | | | 5.0mb |
| SPC | 2.05 | 172 | iPn | 34 14.40 | 0.0 | KOD | 45.72 | 261 | eP | 53 12.00 | 0.6 | LMR | 91.27 | 319 | eP | 57 54.30 | 0.1 |
| | | | i(Sg) | 34 32.00 | | POO | 46.22 | 273 | iPc | 53 15.80 | 0.8 | | 1.0s | 8.00nm | | | 5.1mb |
| KSP | 2.25 | 262 | iPg | 34 18.70 | 1.6X | OIS | 47.19 | 159 | eP | 53 22.00 | -0.6 | LRG | 91.29 | 320 | eP | 57 54.40 | 0.2 |
| | | | iS | 34 42.00 | | ASPA | 48.64 | 167 | iPc | 53 33.70 | -0.1 | | 0.8s | 9.10nm | | | 5.2mb |
| PSZ | 3.30 | 179 | eP | 34 33.00 | 0.8 | | 1.1s | 15.00nm | | | 4.9mb | BGF | 91.43 | 323 | eP | 57 54.80 | -0.1 |
| ZST | 3.50 | 211 | eP | 34 35.70 | 0.9 | WARB | 50.15 | 176 | iPc | 53 39.40 | -5.9X | | 1.2s | 20.80nm | | | 5.4mb |
| | | | e | 34 58.60 | | | 0.6s | 21.00nm | | | 5.3mb | SES | 91.61 | 31 | eP | 57 56.00 | 0.3 |
| VKA | 3.73 | 219 | iP | 35 12.20 | 34.1X | MEKA | 50.68 | 186 | eP | 53 48.40 | -1.0 | MAF | 91.79 | 323 | eP | 57 57.10 | 0.6 |
| | 0.6s | 20.00nm | | | | FORR | 54.88 | 175 | iPc | 54 20.20 | -0.3 | | 0.8s | 6.70nm | | | 5.1mb |
| | | | i | 35 30.20 | | | 0.5s | 20.00nm | | | 5.4mb | FRB | 91.90 | 5 | eP | 57 56.50 | -0.1 |
| KHC | 4.52 | 245 | ePn | 34 48.70 | -0.6 | MHI | 55.56 | 298 | iPc | 54 26.20 | 0.5 | FFC | 92.37 | 24 | iPc | 57 59.80 | 0.8 |
| | | | ePg | 34 55.40 | | STK | 58.40 | 162 | eP | 54 45.00 | -0.5 | | 0.6s | 17.00nm | | | 5.7mb |
| | | | Sg | 35 40.50 | | KEV | 69.72 | 338 | eP | 55 58.00 | -1.0 | CAF | 92.88 | 323 | eP | 58 02.40 | 0.8 |
| | S.D. = 1.2 | on | 5 of | 7 obs. | | SOD | 70.48 | 336 | iP | 56 03.50 | -0.2 | | 1.0s | 12.00nm | | | 5.3mb |
| | | | | | | KJF | 70.92 | 333 | iP | 56 04.80 | -1.6 | RJF | 92.94 | 323 | eP | 58 02.80 | 1.0 |
| FEB 04, 1989 09h 44m 53.22± 0.49s | | | | | | | 0.6s | 15.60nm | | | 5.1mb | | 0.8s | 8.00nm | | | 5.2mb |
| 24.155 N ± 3.3km 123.305 E ± 3.7km | | | | | | SUF | 72.02 | 331 | iP | 56 11.90 | -1.1 | KIC | 120.98 | 294 | PKP | 03 41.70 | -0.4 |
| DEPTH = 53.7 ± 3.9 km | | | | | | | 0.6s | 13.20nm | | | 5.0mb | TIC | 121.06 | 295 | PKP | 03 41.70 | -0.5 |
| 5.1mb (41 obs.) | | | | | | INK | 72.52 | 22 | ePc | 56 16.10 | 0.2 | LIC | 121.29 | 294 | PKP | 03 42.50 | -0.2 |
| SOUTHWESTERN RYUKYU ISLANDS (246) | | | | | | | 0.5s | 12.00nm | | | 5.1mb | | | | | | S.D. = 0.8 on 106 of 113 obs. |
| Felt (I JMA) on Ishigaki-shima. | | | | | | MBC | 72.86 | 13 | eP | 56 17.00 | -0.8 | | | | | | |
| | | | | | | NUR | 73.41 | 329 | iP | 56 20.30 | -0.8 | * FEB 04, 1989 09h 45m 01.82± 0.78s | | | | | |
| ISI | 0.81 | 77 | iPd | 45 09.50 | 0.9 | IKL | 75.85 | 304 | iP | 56 34.70 | -1.0 | 43.429 N ± 6.5km 13.011 E ± 7.3km | | | | | |
| | | | S | 45 22.00 | | UPP | 76.90 | 330 | iP | 56 40.10 | -0.9 | DEPTH = 10.0km (geophysicist) | | | | | |
| TWC | 1.40 | 289 | iPc | 45 16.60 | -0.2 | VR1 | 77.41 | 315 | ePd | 56 44.50 | 0.3 | CENTRAL ITALY (381) | | | | | |
| | | | eS | 45 33.90 | | MLR | 78.06 | 315 | ePd | 56 48.00 | 0.0 | | | | | | |
| TWD | 1.56 | 268 | iPc | 45 18.10 | -0.9 | ELL | 78.53 | 305 | iP | 56 50.10 | -0.6 | ARV | 0.09 | 324 | Pc | 45 03.50 | -0.9 |
| | | | eS | 45 37.20 | | HFS | 78.53 | 331 | eP | 56 49.10 | -1.0 | | | | | | |
| TWZ | 1.83 | 301 | ePc | 45 23.60 | 0.8 | | 0.8s | 18.60nm | | | 5.1mb | CIO | 0.25 | 157 | iPg | 45 07.05 | -0.2 |
| ANP | 1.92 | 303 | iPc | 45 24.90 | 0.7 | NAO | 79.42 | 333 | P | 56 53.80 | -1.1 | | | | | | |
| | 0.7s | 2739 | 73nm | | | | 0.7s | 11.00nm | | | 4.9mb | ASS | 0.44 | 216 | P | 45 11.00 | 0.2 |
| | | | eS | 45 42.40 | | KRA | 79.92 | 320 | eP | 56 58.10 | 0.3 | | | | | | |
| QZH | 4.36 | 281 | Pc | 45 57.10 | -1.5 | | 0.8s | 33.00nm | | | 5.3mb | AOI | 0.45 | 74 | ePg | 45 11.11 | 0.2 |
| | | | S | 46 43.00 | | | | | | | | | | | | | |

iSg 45 19.12
RSM 0.64 321 P 45 15.30 0.6
S.D. = 0.8 on 5 of 5 obs.

% FEB 04, 1989 10h 44m 59.95±0.88s
39.119 N ± 7.6km 27.632 E ± 8.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM 0.78 202 ePg 45 15.00 -0.1
eSg 45 27.70
DST 0.91 58 iPn 45 17.60 0.2
EZM 1.23 305 ePn 45 23.10 0.2
EDC 1.24 8 ePn 45 22.40 -0.6
KCT 1.26 26 iPn 45 23.60 0.2
S.D. = 0.5 on 5 of 5 obs.

FEB 04, 1989 10h 56m 51.27±0.30s
37.297 N ± 2.6km 141.154 E ± 3.0km
DEPTH = 68.1 ± 2.5 km
5.2mb (48 obs.)

NEAR EAST COAST OF HONSHU, JAPAN(228)
Felt (III JMA) at Mito, Onohomo,
Fukushima, Shirokawa and
Utsunomiya; (II JMA) at Sendai,
Ishinomaki, Ofunato, Kumogoyo
and Yokohama; (I JMA) at
Yamagoto, Moeboshi, Miyoko,
Morioka and Tokyo.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 16C
Centroid Location:
Origin Time 10:56:51.9 0.9
Lat 37.51N 0.11 Lon 140.99E 0.10
Dep 39.1 7.8 Half-duration 1.5
Moment Tensor: Scale 10**16 Nm
Mrr= 4.50 0.42 Mtt= 0.52 0.44
Mff=-5.03 0.60 Mrt=-1.87 0.67
Mrf=-3.25 0.81 Mtf=-0.93 0.55
Principal Axes:
T Vol= 5.94 Plg=68 Azm=136
N 0.40 11 17
P -6.34 18 283
Best Double Couple: Mo=6.1*10**16
NP1: Strike=356 Dip=28 Slip= 66
NP2: 202 64 102

ONA 0.40 209 iP+ 57 02.40 -0.7
S 57 10.70
FKS 0.71 311 iP+ 57 06.10 -0.2
S 57 16.70
SHR 0.76 257 eP 57 00.00 -7.0X
SEN 0.98 348 iP+ 57 08.60 -1.1
S 57 20.80
MIT 1.07 211 iP+ 57 10.90 0.1
iS 57 25.60
ISN 1.13 6 iP+ 57 10.00 -1.6
iS 57 23.50
YAM 1.15 327 iPd 57 12.00 0.2
iS 57 24.30
YAMJ 1.25 315 iPd 57 12.70 -0.4
S 57 28.90
UTS 1.27 234 iPd 57 13.90 0.4
iS 57 30.60
KAKJ 1.34 216 iP+ 57 13.80 -0.6
NIIJ 1.72 269 iPd 57 20.00 0.4
OFU 1.82 14 P 57 20.10 -0.8
S 57 40.20
OFUJ 1.83 13 iP+ 57 19.00 -2.0
eS 57 40.60
KMG 1.83 232 P 57 21.70 0.7
iS 57 44.50
MAE 1.90 243 eP 57 23.00 1.0
S 57 49.00
TOK 1.96 215 P 57 23.20 0.3
S 57 47.00
CHJJ 2.14 235 P 57 25.50 0.1
YOK 2.22 214 eP 57 28.00 1.6
iS 57 54.80
MRK 2.40 0 eP 57 00.00 -28.9X
S 57 56.70
MIY 2.43 15 eP 57 30.00 0.6
S 57 54.80
MTMJ 2.78 256 P 57 35.60 1.2
IIDJ 3.18 236 P 57 41.90 1.9
S 58 21.90

AOMJ 3.31 350 eP 57 41.90 0.1
TSRJ 4.52 249 P 58 00.70 1.9
WKYJ 5.46 237 P 58 12.10 0.0
YONJ 6.56 254 P 58 28.80 1.5
TKSJ 6.66 242 P 58 29.40 0.7
SHK 7.41 251 eP 58 34.00 -5.0X
SHNJ 8.76 252 P 59 01.20 3.6X
KUMJ 9.72 244 eP 59 10.70 0.0
KAGJ 10.45 237 eP 59 22.00 1.3
MDJ 11.39 314 eP 59 34.00 0.8
eS 01 35.00
CN2 13.59 303 eP 00 01.60 -0.7
Z 20s 1.80um
N 12s 0.50um
pP 00 08.60
eS 02 29.00
SNY 14.29 294 Pc 00 11.80 0.4
Z 20s 2.90um
N 17s 1.40um
E 20s 2.10um
DL2 15.46 282 Pd 00 27.00 0.5
SSE 17.63 255 eP 00 53.00 -0.7
Z 20s 1.40um
N 15s 0.80um
eP 01 05.00
e 01 18.00
eS 04 12.00
eS 04 31.00
NJ2 19.06 261 eP 01 07.50 -3.4X
TIA 19.28 274 eP 01 10.60 -2.6
Z 28s 1.30um
S 04 40.00
BJI 19.68 286 eP 01 15.00 -2.4
sP 01 32.00
eS 05 12.00
TIY 22.75 280 eP 01 46.10 -2.4
E 17s 1.50um
S 05 53.00
HHC 23.19 288 eP 01 52.20 -0.6
WHN 23.19 261 eP 01 52.50 -0.2
Z 20s 1.27um
eS 05 58.00
PJG 23.84 171 e(P) 02 06.50 7.4X
GUMO 23.84 171 e(P) 02 06.00 6.9X
1.1s 244.99nm 5.6mb
GUA 23.90 171 e(P) 02 08.70 9.1X
BTO 24.37 287 P 02 04.50 0.3
XAN 26.32 273 P 02 21.60 -0.8
GZH 27.77 247 iPd 02 35.50 -0.1
LZH 29.82 279 eP 02 53.00 -1.1
Z 20s 110.00nm 5.2mb
18s 1.00um 4.5msz
GYA 31.06 260 P 03 03.60 -1.5
S 08 02.00
CD2 31.47 270 eP 03 07.50 -1.0
GTA 32.29 287 Pc 03 14.60 -1.1
Z 24s 1.10um 4.5mszX
PcP 06 02.70
ScS 13 38.40
KMI 34.80 261 Pd 03 37.00 -0.6
Z 22s 0.90um 4.5msz
eS 08 14.00
LOE 39.87 251 eP 04 18.80 -1.1
WMO 40.54 297 iPd 04 26.20 0.9
S 10 33.00
CHTO 41.16 255 eP 04 30.90 0.4
0.9s 2.98nm 4.1mb X
LSA 41.98 275 P 04 34.10 -3.6X
NNT 44.40 247 iPd 04 57.70 0.8
SVW 45.42 37 eP 05 05.70 1.1
IMA 46.57 31 eP 05 14.00 0.3
1.0s 8.80nm 4.6mb
GUN 46.92 275 P 05 17.50 0.2
KDC 47.09 42 eP 05 17.20 -0.6
PKI 47.45 275 P 05 21.30 -0.1
SNG 47.45 241 eP 05 22.30 1.2
KKK 47.45 275 P 05 21.50 0.2
DMN 47.67 275 P 05 23.00 -0.1
GKN 47.87 276 P 05 24.50 0.0
PMR 48.54 37 eP 05 28.50 -0.5
0.8s 22.30nm 5.2mb
FBA 48.99 32 ePd 05 32.80 0.4
KGM 49.42 234 ePd 05 37.00 0.7
KSH 50.13 294 eP 05 41.00 -0.6
MTN 50.76 193 iPd 05 45.70 -0.7
PSI 51.83 239 eP 05 54.00 -0.6
INK 54.25 27 ePd 06 11.40 -0.5

pP 06 21.00 31kmX
MBC 56.33 16 eP 06 26.00 -0.9
0.6s 5.00nm 4.7mb
WB5 57.23 188 iPc 06 32.00 -1.8
CTA 57.28 174 eP 06 33.00 -1.1
WRA 57.29 188 Pd 06 32.10 -2.1
1.4s 75.00nm 5.6mb
QIS 57.56 182 eP 06 34.00 -2.1
HYB 58.00 268 ePc 06 38.50 -1.0
0.8s 30.80nm 5.5mb
QUE 60.67 287 eP 06 57.80 -0.1
ASPA 61.02 188 iPc 06 58.80 -1.1
1.3s 45.00nm 5.4mb
GBA 61.03 265 Pc 06 58.60 -1.6
0.8s 34.30nm 5.5mb
MBL 61.52 203 eP 07 02.00 -1.3
KOD 62.97 262 eP 07 13.00 -0.6
KEV 63.12 339 eP 07 18.00 4.5X
MHI 63.32 297 eP 07 15.00 -0.4
DZM 63.68 154 iPd 07 18.20 0.5
YKA 63.69 30 P 07 16.80 -0.5
RMO 63.85 172 eP 07 18.00 -0.7
e 07 33.00
NANU 64.25 206 iPd 07 21.00 -0.3
0.6s 13.00nm 5.1mb
WARB 64.60 194 iPd 07 17.90 -5.7X
0.7s 45.00nm 5.5mb
SOD 64.64 337 iP 07 21.40 -2.0
BRS 65.27 169 iPd 07 27.60 -0.2
i 07 42.50
KJF 66.19 334 iP 07 33.00 -0.4
0.7s 36.00nm 5.4mb
MEKA 67.03 202 eP 07 38.00 -1.2
SUF 67.66 333 iP 07 41.80 -0.9
0.5s 16.20nm 5.2mb
CMS 68.57 176 eP 07 49.00 0.4
STK 68.82 180 eP 07 50.00 -0.1
EDM 69.27 38 iPd 07 52.50 -0.4
NUR 69.62 332 iP 07 54.00 -0.8
0.5s 22.50nm 5.4mb
LBFM 71.07 52 P 08 04.50 0.2
pP 08 20.50 58kmX
WDC 71.08 53 e(P) 08 04.50 0.4
epP 08 29.30 96kmX
SES 72.09 40 ePd 08 10.00 0.0
pP 08 25.00 53kmX
ORV 72.31 54 eP 08 11.10 -0.3
epP 08 26.10 53kmX
FFC 73.60 33 iPd 08 18.60 0.0
0.7s 13.00nm 5.0mb
HFS 73.76 336 eP 08 18.80 -0.7
0.9s 23.40nm 5.1mb
CMB 73.89 54 eP 08 21.10 0.4
epP 08 36.20 54kmX
LRM 74.10 44 eP 08 22.40 0.3
e 08 37.20
NAO 74.15 337 P 08 21.20 -0.5
0.9s 26.70nm 5.2mb
PRS 74.21 56 eP 08 23.90 1.4
epP 08 37.80 49kmX
KVN 74.76 52 P 08 26.00 0.1
pP 08 41.50 55kmX
PRI 74.79 56 eP 08 27.00 1.0
FRI 74.93 55 eP 08 26.90 0.3
epP 08 41.90 53kmX
TNP 75.89 53 P 08 32.70 0.3
pP 08 46.00 46kmX
FRB 76.57 13 eP 08 35.00 -0.4
BW06 77.62 45 P 08 41.30 -0.7
0.7s 7.31nm 4.7mb
VRI 78.39 320 ePd 08 46.00 0.2
KRA 78.76 326 iPd 08 48.10 0.4
0.8s 47.00nm 5.5mb
e 08 58.60
MSU 78.77 50 P 08 49.30 1.0
pP 09 04.50 54kmX
BBTK 78.97 312 iPd 08 50.00 0.8
MLR 79.05 320 ePc 08 50.00 0.4
SPC 79.25 325 eP 08 51.90 1.3
KSP 79.77 328 iPd 08 53.80 0.6
PSZ 80.32 324 iP 08 57.00 0.7
CLL 80.76 330 iPd 08 58.00 -0.4
1.2s 41.00nm 5.2mb
ipP 09 13.30 54kmX
SRO 81.13 325 eP 09 01.60 1.2
BZS 81.15 322 eP 09 01.00 0.5
ZST 81.39 326 eP 09 02.10 0.4

04d 11h

MOX 81.83 330 ePd 09 03.50 -0.5
1.7s 55.00nm 5.2mb
GOL 82.02 46 P 09 06.00 0.4
KHC 82.21 328 iPd 09 07.00 0.9
e 09 22.00
BHG 83.60 328 iPd 09 14.20 1.0
1.1s 57.00nm 5.5mb
VAY 83.71 318 eP 09 14.50 0.6
SKO 83.84 319 iPc 09 15.20 0.7
1.5s 96.00nm 5.6mb
KBA 83.90 327 eP 09 14.50 -0.4
0.8s 13.80nm 5.0mb
FUR 83.92 329 iPd 09 15.90 1.1
1.0s 69.00nm 5.6mb
MEM 83.98 333 P 09 15.60 0.6
VBY 84.25 325 eP 09 17.20 0.7
RBL 84.29 327 Pd 09 16.00 -0.8
CEY 84.45 326 eP 09 17.00 -0.5
ALO 84.58 50 eP 09 18.90 0.3
1.1s 14.87nm 4.9mb
SNF 84.68 334 P 09 19.40 0.9
WLF 84.71 333 Pc 09 20.20 1.5
e 09 34.40
GWF 84.72 331 P 09 19.16 0.3
OHR 84.80 319 iP 09 19.10 -0.3
DOU 84.91 334 P 09 20.00 0.3
CDF 85.32 331 P 09 21.98 0.1
FEL 85.47 330 P 09 22.50 -0.2
MOF 85.83 331 P 09 24.18 -0.3
VITF 85.97 332 P 09 25.02 0.0
BSF 85.98 331 P 09 24.70 -0.5
HAU 86.01 331 iPd 09 25.60 0.3
0.7s 14.10nm 5.2mb
VAI 86.79 329 P 09 28.00 -1.0
PGD 87.11 326 Pc 09 31.70 0.8
LOR 87.55 332 iPd 09 32.90 0.1
1.2s 41.60nm 5.5mb
LBF 87.75 332 iPd 09 33.80 0.1
0.9s 8.10nm 4.9mb
FLN 87.79 336 eP 09 34.20 0.4
0.6s 10.80nm 5.2mb
LDF 87.81 335 eP 09 34.30 0.3
0.8s 13.40nm 5.2mb
SSF 87.86 333 iPd 09 34.40 0.2
0.9s 13.10nm 5.1mb
LPG 87.91 330 iPd 09 35.10 0.2
0.8s 14.70nm 5.2mb
SMF 88.08 332 iPd 09 35.70 0.4
1.0s 16.80nm 5.2mb
AVF 88.14 332 iPd 09 36.00 0.4
1.0s 32.00nm 5.4mb
GRR 88.23 336 eP 09 36.60 0.6
1.0s 44.00nm 5.6mb
BGF 88.52 333 eP 09 37.90 0.5
1.0s 12.00nm 5.1mb
LPF 88.61 336 eP 09 38.40 0.6
0.8s 24.10nm 5.5mb
MAF 88.91 333 eP 09 40.30 1.0
1.0s 18.00nm 5.3mb
TCF 88.99 333 eP 09 40.10 0.4
LSF 89.26 333 iPd 09 41.30 0.3
0.6s 6.30nm 5.0mb
MEO 89.32 45 eP 09 41.50 0.0
MFF 89.55 334 eP 09 42.80 0.5
0.8s 8.00nm 5.0mb
LRG 89.75 329 eP 09 43.10 -0.1
1.0s 9.60nm 5.0mb
LMR 89.79 329 eP 09 43.20 -0.2
1.0s 12.00nm 5.1mb
LNO 90.05 43 eP 09 45.00 0.4
TUL 90.04 43 eP 09 45.50 0.7
1.2s 8.20nm 4.9mb
RJF 90.08 333 iPd 09 45.60 0.8
0.8s 6.40nm 4.9mb
CAF 90.20 332 iPd 09 46.50 1.1
1.0s 10.80nm 5.1mb
RLO 90.27 42 eP 09 46.30 0.5
LFF 90.67 333 iPd 09 48.50 1.0
0.8s 14.50nm 5.4mb
LPO 90.73 333 iPd 09 48.80 1.0
1.0s 8.00nm 5.0mb
GAC 91.03 25 eP 10 05.00 15.9X
BUL 119.59 266 PKP 15 28.50 -6.8X

TIC 126.07 317 PKPc 15 47.40 -0.4
KIC 126.15 316 PKPc 15 47.50 -0.5
LIC 126.42 317 PKP 15 46.20 -2.3X
ZOBO 146.73 59 iPKPd 16 28.50 2.3X
Z 22s 0.16um 4.8msz
LPB 146.93 59 PKPd 16 25.90 -0.5
1.1s 45.57nm
CNCB 147.20 59 iPKPd 16 29.00 2.0
i 16 47.30
LCCH 153.13 92 ePKP 16 40.00 5.2X
LNV 153.39 93 ePKP 16 43.50 8.4X
JACH 153.66 89 ePKP 16 44.50 8.8X
PEL 153.73 91 iPKPd 16 44.50 8.8X
S.D. = 0.9 on 173 of 192 obs.

FEB 04, 1989 12h 12m 58.91 ± 1.06s
12.730 N ± 5.7km 124.477 E ± 11.8km
DEPTH = 104.5 ± 10.6 km
4.9mb (12 obs.)

SAMAR, PHILIPPINE ISLANDS (251)

BAG 5.26 315 eP 14 15.00 -1.7
eS 15 10.30
CVP 5.57 333 eP 14 20.50 -0.3
DAV 5.71 169 eP 14 25.50 2.7
PIP 6.69 327 iPd 14 36.00 -0.2
SSE 18.53 351 eP 17 09.30 -0.8
WHN 20.05 334 eP 17 25.50 -0.5
GYA 21.60 312 P 17 44.00 2.2
TRT 23.46 211 ePd 18 02.10 2.2
0.6s 54.50nm 5.1mb
CHTO 25.29 287 eP 18 15.00 -1.6
0.7s 1.27nm 3.5mb X
XAN 25.50 329 P 18 18.60 -0.6
MTN 26.25 165 eP 18 25.00 -1.2
e 18 32.00
e 18 41.00
CD2 26.32 317 eP 18 26.80 0.0
TIY 27.11 339 eP 18 34.30 0.4
BJI 28.17 346 eP 18 43.50 0.2
SNY 29.00 359 eP 18 50.50 -0.3
HHC 30.22 340 eP 19 02.20 0.5
CN2 30.97 1 eP 19 07.80 -0.4
MDJ 32.08 7 eP 19 19.00 1.2
WB5 33.84 163 iPd 19 31.70 -1.6
eS 24 41.90
WRA 33.89 163 Pc 19 32.50 -1.3
0.6s 6.40nm 4.6mb
GTA 34.37 325 P 19 38.20 0.3
OIS 36.27 156 eP 19 52.00 -2.0
ASPA 37.33 166 iPc 20 02.10 -0.8
0.6s 37.00nm 5.5mb
eS 25 37.70
WARB 38.74 177 iPc 20 08.10 -6.5X
0.5s 24.00nm 5.3mb
PKI 39.35 298 P 20 04.00 -16.2X
MEKA 39.53 188 eP 20 21.00 -0.2
FORR 43.47 175 iPc 20 51.70 -1.6
0.4s 9.00nm 4.9mb
RMO 45.57 149 eP 21 10.00 -0.2
GBA 45.76 277 P 21 13.00 1.1
0.8s 1.70nm 3.9mb
STK 47.29 160 eP 21 23.00 -0.7
BRS 48.42 146 iPc 21 32.20 -0.3
i(pP) 21 45.00 47kmX
i 23 25.00
CMS 48.50 155 iPc 21 33.70 0.6
ADE 49.32 165 iPc 21 40.00 0.6
0.6s 46.67nm 5.6mb
COO 50.49 149 iPd 21 49.50 1.1
BWA 52.12 155 eP 22 01.70 1.0
CAN 53.13 155 eP 22 08.00 -0.1
SOD 81.35 337 iP 25 05.80 0.9
KJF 81.57 334 iP 25 06.40 0.4
0.5s 11.20nm 4.9mb
SUF 82.58 333 iP 25 11.60 0.3
0.4s 5.50nm 4.8mb
INK 82.66 22 eP 25 13.00 1.4
MBC 83.71 12 eP 25 18.00 1.1
0.7s 9.00nm 4.8mb
NUR 83.81 331 iP 25 17.80 0.2
HFS 89.07 332 eP 25 42.30 -1.0
0.5s 2.80nm 4.6mb
NAO 90.05 333 P 25 47.00 -0.9

0.8s 2.70nm 4.4mb
S.D. = 1.1 on 42 of 44 obs.

% FEB 04, 1989 12h 18m 50.25 ± 0.89s
39.258 N ± 7.9km 27.766 E ± 8.7km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

DST 0.75 62 ePn 19 04.60 -0.4
IZM 0.94 205 ePn 19 08.40 0.1
EDC 1.09 4 iPn 19 10.40 -0.3
KCT 1.09 25 iPn 19 11.50 0.8
EZN 1.25 297 ePn 19 13.30 -0.1
S.D. = 0.7 on 5 of 5 obs.

FEB 04, 1989 12h 26m 58.19 ± 0.40s
36.835 N ± 4.9km 113.000 W ± 4.4km
DEPTH = 5.0km (geophysicist)

WESTERN ARIZONA (42)
ML 3.2 (NEIS).

CCU 0.84 356 P 27 14.84 -0.2
S 27 25.87
DLM 1.59 300 eP 27 27.50 0.3
PRN 1.73 290 eP 27 29.90 0.6
NPN 1.75 298 eP 27 29.60 0.1
WMZ 1.76 162 P 27 29.50 -0.3
S 27 51.50
MSU 1.80 21 eP 27 30.90 0.6
SCN 1.88 141 P 27 31.00 -0.5
S 27 55.00
FLAG 2.00 146 P 27 33.50 0.3
S 27 58.20
SPRG 2.26 267 eP 27 37.30 0.4
NOP 2.64 255 eP 27 42.80 0.6
KRNA 2.84 290 eP 27 44.90 -0.4
DUG 3.36 2 e(P) 27 56.00 3.5X
TNP 3.58 292 e(P) 27 55.30 -0.4
KVN 4.60 300 eP 28 09.00 -1.2
ALO 5.64 108 e(Pn) 28 25.00 0.1
S.D. = 0.6 on 14 of 15 obs.

FEB 04, 1989 13h 42m 58.53 ± 1.02s
30.707 S ± 6.0km 71.962 W ± 9.8km
DEPTH = 33.0km (normal)

NEAR COAST OF CENTRAL CHILE (135)

RTRS 2.23 77 iPd 43 33.50 -0.3
JACH 2.29 150 iP 43 35.00 0.2
iS 44 03.50
ROCH 2.40 161 iP 43 03.68 -32.9X
PEL 2.66 156 iPc 43 40.10 0.0
iS 44 17.50
LCCH 2.78 173 iPc 43 41.50 -0.2
iS 44 13.00
RTCB 2.82 107 ePd 43 42.00 -0.4
S 44 17.00
SAN 2.95 158 eP 43 44.00 -0.2
iS 44 19.50
RTLL 3.06 103 ePd 43 45.00 -0.8
S 44 23.00
TACH 3.06 164 iP 43 45.50 -0.3
iS 44 22.50
RTCV 3.15 112 iPc 43 47.90 0.9
LNV 3.27 172 eP 43 48.50 -0.2
CFA 3.32 107 ePc 43 49.00 -0.4
MDZ 3.42 130 eP 43 52.30 1.3
iS 44 41.00
ZOBO 14.79 15 P 46 28.00 0.3
S.D. = 0.6 on 13 of 14 obs.

FEB 04, 1989 13h 46m 08.06 ± 0.36s
30.144 N ± 5.5km 90.115 E ± 3.9km
DEPTH = 10.0km (geophysicist)
3.8mb (1 obs.)

TIBET (306)

LSA 1.00 116 iPgC 46 26.70 -0.6
Sg 46 41.00
GUN 4.33 240 P 47 17.20 1.5
KKN 4.84 242 P 47 23.20 0.3
PKI 4.86 239 P 47 23.60 0.3
DMN 5.07 241 P 47 26.20 0.1
GKN 5.25 247 P 47 27.60 -1.0
NDI 11.34 266 eP 48 37.00 -16.2X
eS 50 49.80
GTA 12.20 38 eP 49 05.20 0.3

| | | | | | |
|-----------------------|---------------|------------------|----------|-------|--|
| E | 10s | 0.90um | | | |
| WMO | 13.79 | 353 eP | 49 25.30 | -0.6 | |
| CHG | 13.84 | 143 eP | 49 26.40 | -0.3 | |
| CHTO | 13.84 | 143 eP | 49 26.80 | 0.2 | |
| | 1.0s | 1.50nm | 3.8mb | | |
| | | e | 49 35.40 | | |
| GYA | 15.03 | 100 P | 49 42.80 | 0.5 | |
| XAN | 16.40 | 71 P | 50 00.60 | 0.7 | |
| BTO | 19.25 | 52 eP | 50 35.30 | -0.1 | |
| TIY | 19.97 | 62 eP | 50 42.30 | -1.1 | |
| N | 10s | 0.70um | | | |
| GBA | 20.20 | 218 P | 50 45.00 | -0.8 | |
| HHC | 20.42 | 53 eP | 50 49.40 | 1.3 | |
| WHN | 20.91 | 83 eP | 50 53.00 | -0.1 | |
| BJI | 23.43 | 58 (P) | 51 22.50 | 4.5X | |
| MHI | 26.27 | 292 eP | 51 45.00 | -0.4 | |
| | S.D. = 0.8 | on 18 of 20 obs. | | | |
| ----- | | | | | |
| FEB 04, 1989 | 14h 19m | 08.06± 0.95s | | | |
| 47.070 N ± 5.2km | | 0.912 W ± 9.1km | | | |
| DEPTH = 21.1 ± 4.4 km | | | | | |
| FRANCE | | (538) | | | |
| ML 3.9 (LDG). | MD 3.7 (DDU). | | | | |
| MFF | 0.70 | 131 Pg | 19 22.20 | 0.7 | |
| | | Sg | 19 31.60 | | |
| LPF | 0.97 | 355 Pg | 19 25.20 | -0.8 | |
| | | Sg | 19 37.20 | | |
| GRR | 1.32 | 2 P | 19 31.80 | 0.5 | |
| | | Sg | 19 48.40 | | |
| LDF | 1.61 | 19 Pg | 19 37.30 | 1.7 | |
| | | Sg | 19 56.80 | | |
| LSF | 1.87 | 115 Pn | 19 40.30 | 1.0 | |
| | | Pg | 19 43.20 | | |
| | | Sg | 20 07.30 | | |
| TCF | 2.29 | 109 Pn | 19 46.20 | 0.9 | |
| | | Pg | 19 50.20 | | |
| | | Sg | 20 19.00 | | |
| LFF | 2.42 | 151 Pg | 19 53.30 | 6.2X | |
| | | Sg | 20 27.00 | | |
| HYF | 2.43 | 84 Pn | 19 48.90 | 1.6 | |
| | | Pg | 19 54.00 | | |
| | | Sg | 20 24.70 | | |
| RJF | 2.44 | 135 Pn | 19 48.20 | 0.7 | |
| | | Pg | 19 52.70 | | |
| | | Sg | 20 23.80 | | |
| MAF | 2.54 | 108 Pn | 19 49.60 | 0.7 | |
| | | Pg | 19 55.50 | | |
| | | Sg | 20 26.80 | | |
| BGF | 2.63 | 100 Pn | 19 50.80 | 0.6 | |
| | | Pg | 19 57.20 | | |
| | | Sg | 20 29.00 | | |
| LPO | 2.80 | 148 Pn | 19 53.30 | 0.8 | |
| | | Pg | 20 00.00 | | |
| | | Sg | 20 37.00 | | |
| AVF | 2.94 | 94 Pn | 19 54.50 | 0.1 | |
| | | Pg | 20 02.10 | | |
| | | Sg | 20 37.40 | | |
| CAF | 2.98 | 135 Pn | 19 56.00 | 0.9 | |
| | | Pg | 20 04.30 | | |
| | | Sn | 20 29.60 | | |
| | | Sg | 20 43.40 | | |
| SSF | 3.02 | 89 Pn | 19 55.60 | 0.0 | |
| | | Pg | 20 03.70 | | |
| | | Sg | 20 40.20 | | |
| LOR | 3.26 | 85 Pn | 19 58.70 | -0.4 | |
| | | Pg | 20 08.60 | | |
| | | Sg | 20 48.20 | | |
| SMF | 3.29 | 96 Pn | 19 59.30 | -0.2 | |
| | | Pg | 20 09.60 | | |
| | | Sg | 20 48.60 | | |
| LBF | 3.35 | 90 Pn | 19 59.90 | -0.4 | |
| | | Pg | 20 10.10 | | |
| | | Sg | 20 50.80 | | |
| EPF | 4.14 | 167 Pn | 20 10.80 | -0.8 | |
| | | Pg | 20 25.80 | | |
| | | Sn | 20 57.30 | | |
| | | Sg | 21 18.60 | | |
| DOU | 4.75 | 48 iPd | 20 19.10 | -1.0 | |
| | | i | 20 21.00 | | |
| | | iS | 21 10.10 | | |
| SNF | 4.86 | 43 iP | 20 40.00 | 18.2X | |
| HAU | 5.01 | 77 Pn | 20 23.20 | -0.6 | |
| | | Pg | 20 41.80 | | |
| | | Sg | 21 44.00 | | |
| BSF | 5.28 | 79 Pg | 20 47.30 | 19.5X | |
| | | Sg | 21 52.30 | | |

| | | | | | |
|-----------------------------------|------------|-------------------|----------|-------|--|
| WLF | 5.38 | 59 iP | 20 30.50 | 1.5 | |
| LPL | 5.52 | 104 Pn | 20 30.20 | -1.1 | |
| LPG | 5.54 | 104 Pn | 20 30.20 | -1.5 | |
| CDF | 5.68 | 73 Pg | 20 53.60 | 20.1X | |
| | S.D. = 1.0 | on 23 of 27 obs. | | | |
| ----- | | | | | |
| FEB 04, 1989 | 14h 23m | 39.46± 0.81s | | | |
| 19.416 S ± 5.7km | | 179.587 W ± 3.5km | | | |
| DEPTH = 450.6 ± 9.3 km | | | | | |
| 5.3mb (26 obs.) | | | | | |
| FIJI ISLANDS REGION | | (181) | | | |
| CENTROID, MOMENT TENSOR | | (HRV) | | | |
| Dot Used: GDSN | | | | | |
| L.P.B.: 135, 27C | | | | | |
| Centroid Location: | | | | | |
| Origin Time | 14:23:51.5 | 0.4 | | | |
| Lot 19.64S 0.04 Lon 179.88W 0.03 | | | | | |
| Dep 508.7 2.0 Half-duration 3.1 | | | | | |
| Moment Tensor: Scole 10**17 Nm | | | | | |
| Mrr= 0.37 0.11 Mtt=-2.20 0.21 | | | | | |
| Mff= 1.83 0.19 Mrt= 1.65 0.19 | | | | | |
| Mrf=-1.29 0.20 Mtf=-5.50 0.16 | | | | | |
| Principal Axes: | | | | | |
| T Vol= 6.35 Plg=19 Azm= 54 | | | | | |
| N -0.25 70 252 | | | | | |
| P -6.11 6 146 | | | | | |
| Best Double Couple: Mo=6.2*10**17 | | | | | |
| NP1: Strike=192 Dip=73 Slip= 9 | | | | | |
| NP2: 99 81 163 | | | | | |
| AFI | 9.27 | 55 eP | 25 49.00 | -1.4 | |
| | | S | 27 20.00 | | |
| PVC | 11.60 | 276 iP | 26 22.70 | 6.9X | |
| DZM | 13.33 | 256 iPd | 26 36.10 | 1.6 | |
| | | iS | 29 00.90 | | |
| KRP | 18.93 | 192 P | 27 33.00 | 2.2 | |
| HNR | 22.14 | 294 eP | 28 04.00 | 2.5 | |
| WEL | 22.33 | 191 eP | 28 02.00 | -1.0 | |
| | | eS | 31 40.00 | | |
| MSZ | 27.25 | 200 eP | 28 39.30 | -7.9X | |
| | | e | 30 13.20 | | |
| | | e | 30 18.90 | | |
| COO | 28.06 | 241 iPd | 28 55.30 | 0.7 | |
| AFR | 28.32 | 91 iP | 28 56.60 | -0.2 | |
| | 1.0s | 150.00nm | 5.4mb | | |
| PAE | 28.49 | 91 iP | 28 58.20 | -0.1 | |
| | 1.0s | 60.00nm | 5.0mb | | |
| PPT | 28.51 | 91 iP | 28 58.30 | -0.2 | |
| | 1.0s | 115.00nm | 5.3mb | | |
| TVO | 28.78 | 92 iP | 29 02.00 | 1.0 | |
| | 1.0s | 105.00nm | 5.2mb | | |
| RMO | 29.93 | 250 iPc | 29 11.40 | 0.5 | |
| | | e | 29 13.00 | | |
| | | e | 30 36.00 | | |
| PMO | 30.56 | 87 iP | 29 16.10 | -0.2 | |
| | 1.0s | 130.00nm | 5.3mb | | |
| VAH | 30.76 | 87 iP | 29 17.90 | -0.2 | |
| | 1.0s | 105.00nm | 5.2mb | | |
| TPT | 30.83 | 87 iP | 29 18.40 | -0.2 | |
| | 1.0s | 150.00nm | 5.4mb | | |
| RUV | 31.01 | 87 iP | 29 19.90 | -0.3 | |
| | 1.0s | 165.00nm | 5.4mb | | |
| CNB | 31.63 | 234 iPd | 29 27.40 | 1.9 | |
| | | e | 29 29.70 | | |
| CAN | 31.91 | 234 eP | 29 28.30 | 0.5 | |
| | | i | 29 30.20 | | |
| BWA | 32.04 | 236 eP | 29 28.00 | -1.0 | |
| CTA | 32.12 | 263 iPc | 29 30.00 | 0.3 | |
| | 0.9s | 152.10nm | 5.4mb | | |
| | | iS | 34 08.00 | | |
| | | i | 36 48.00 | | |
| CMS | 33.32 | 242 iPd | 29 40.00 | 0.3 | |
| | | e | 29 42.00 | | |
| PMG | 33.65 | 282 iPd | 29 43.50 | 0.9 | |
| | 0.8s | 128.36nm | 5.4mb | | |
| TOO | 35.36 | 232 eP | 29 57.00 | 0.2 | |
| TAU | 36.38 | 223 eP | 30 05.00 | -0.1 | |
| STK | 36.94 | 243 eP | 30 10.00 | 0.1 | |
| | | e | 30 14.00 | | |
| OIS | 38.30 | 261 iPc | 30 21.20 | 0.1 | |
| RKT | 41.62 | 103 iP | 30 49.00 | 0.9 | |
| | 1.0s | 40.00nm | 4.8mb | | |
| WB5 | 43.26 | 261 eP | 30 59.80 | -1.4 | |
| | | eS | 36 51.90 | | |
| WRA | 43.28 | 261 Pd | 31 00.10 | -1.2 | |
| | 0.8s | 20.90nm | 4.6mb | | |
| ASPA | 43.33 | 256 iPc | 31 01.00 | -0.7 | |

| | | | | | |
|------|-------|----------|----|-------|--------|
| | 0.7s | 259.00nm | | | 5.8mb |
| | | eP | 32 | 57.60 | 715kmX |
| | | iS | 36 | 50.30 | |
| | | eScS | 40 | 10.90 | |
| MTN | 47.66 | 270 eP | 31 | 34.00 | -1.4 |
| GUA | 47.90 | 310 eP | 31 | 37.00 | -0.1 |
| | 0.8s | 292.54nm | | | 5.8mb |
| GUMO | 47.96 | 310 eP | 31 | 37.80 | 0.2 |
| | 0.8s | 175.70nm | | | 5.5mb |
| PJG | 47.96 | 310 eP | 31 | 37.30 | -0.3 |
| FORR | 48.33 | 246 iPc | 31 | 38.80 | -1.4 |
| | 0.5s | 63.00nm | | | 5.3mb |
| KNA | 49.23 | 266 eP | 31 | 45.00 | -2.2 |
| WARB | 49.74 | 252 iPc | 31 | 43.60 | -7.4X |
| | 0.4s | 28.00nm | | | 5.0mb |
| MBL | 56.54 | 257 eP | 32 | 38.40 | -1.6 |
| MEKA | 56.94 | 250 eP | 32 | 40.70 | -2.0 |
| NANU | 60.24 | 255 iPc | 33 | 03.90 | -1.1 |
| | 0.6s | 71.00nm | | | 5.3mb |
| CHJJ | 67.67 | 325 P | 33 | 51.00 | -1.0 |
| IIDJ | 67.85 | 323 P | 33 | 53.40 | 0.2 |
| SPA | 70.70 | 180 iPd | 34 | 09.10 | -1.0 |
| | 0.9s | 72.73nm | | | 5.3mb |
| | | e | 34 | 28.50 | |
| SSE | 75.85 | 311 eP | 34 | 39.00 | -0.7 |
| | 1.0s | 12.00nm | | | 4.5mb |
| | | eS | 43 | 44.00 | |
| | | esS | 44 | 24.00 | |
| BLP | 77.74 | 46 P | 34 | 50.60 | 0.6 |
| SYF | 78.01 | 47 eP | 34 | 52.00 | 0.4 |
| GCC | 78.07 | 44 eP | 34 | 51.80 | 0.1 |
| PRS | 78.08 | 45 eP | 34 | 52.20 | 0.4 |
| PCC | 78.10 | 43 eP | 34 | 52.00 | 0.2 |
| SAO | 78.28 | 44 e(P) | 34 | 52.80 | -0.1 |
| BCH | 78.30 | 46 P | 34 | 53.40 | 0.3 |
| BRK | 78.39 | 43 e(P) | 34 | 53.30 | -0.1 |
| BKS | 78.41 | 43 eP | 34 | 53.70 | 0.2 |
| | 1.0s | 109.00nm | | | 5.4mb |
| | | i | 34 | 55.70 | |
| PRI | 78.44 | 45 eP | 34 | 54.50 | 0.6 |
| MHC | 78.48 | 44 eP | 34 | 54.40 | 0.3 |
| LLA | 78.53 | 45 e(P) | 34 | 54.50 | 0.3 |
| ARN | 78.56 | 44 P | 34 | 54.70 | 0.3 |
| ABL | 78.71 | 47 P | 34 | 59.30 | 3.9X |
| MDJ | 78.78 | 326 eP | 34 | 56.50 | 1.2 |
| PAS | 79.05 | 48 eP | 34 | 57.00 | 0.0 |
| MWC | 79.17 | 48 eP | 34 | 58.00 | 0.1 |
| BAR | 79.35 | 50 eP | 35 | 00.00 | 1.4 |
| RVR | 79.53 | 48 eP | 35 | 01.00 | 1.5 |
| FRI | 79.56 | 45 eP | 34 | 59.50 | 0.0 |
| PLM | 79.56 | 49 P | 35 | 11.00 | 11.1X |
| SBB | 79.58 | 48 eP | 35 | 00.00 | 0.1 |
| PEC | 79.63 | 49 P | 34 | 59.50 | -0.6 |
| CMB | 79.70 | 44 ePc | 35 | 00.40 | 0.0 |
| WDC | 79.81 | 40 ePc | 35 | 01.10 | 0.3 |
| ORV | 79.85 | 42 ePc | 35 | 01.10 | 0.0 |
| KDC | 80.12 | 14 ePc | 35 | 01.50 | -0.5 |
| MIN | 80.25 | 41 eP | 35 | 03.30 | 0.0 |
| CLC | 80.34 | 47 eP | 35 | 05.00 | 1.2 |
| SNY | 80.42 | 321 eP | 35 | 04.10 | 0.2 |
| TPC | 80.53 | 49 eP | 35 | 05.00 | 0.2 |
| CN2 | 80.54 | 323 eP | 35 | 04.50 | 0.0 |
| LBFM | 80.66 | 40 P | 35 | 06.00 | 0.5 |
| GLA | 80.87 | 50 eP | 35 | 07.00 | 0.4 |
| KVN | 81.75 | 44 P | 35 | 11.00 | -0.1 |
| | | pP | 36 | 30.00 | 341kmX |
| TNP | 81.81 | 45 P | 35 | 11.30 | -0.2 |
| | | pP | 36 | 32.00 | 349kmX |
| SVW | 82.53 | 11 eP | 35 | 13.50 | -0.9 |
| AIA | 82.54 | 157 eP | 35 | 13.10 | -1.3 |
| LON | 83.91 | 36 P | 35 | 21.00 | -0.6 |
| BJI | 84.08 | 316 eP | 35 | 23.00 | 0.5 |
| | | i | 37 | 16.50 | |
| PGC | 84.18 | 34 eP | 35 | 23.00 | 0.2 |
| PMR | 84.32 | 14 iPc | 35 | 22.30 | -0.9 |
| | 0.8s | 41.10nm | | | 5.2mb |
| RMW | 84.33 | 35 P | 35 | 23.50 | -0.2 |
| MSU | 85.44 | 47 eP | 35 | 29.50 | -0.1 |
| TIY | 85.45 | 312 eP | 35 | 30.60 | 1.2 |
| Z | 20s | 0.60um | | | 5.0Msz |
| | | S | 45 | 12.00 | |
| XAN | 86.29 | 308 P | 35 | 34.50 | 1.0 |
| PNT | 86.60 | 35 ePc | 35 | 34.00 | -0.6 |
| | 0.9s | 64.00nm | | | 5.4mb |
| IMA | 87.44 | 10 eP | 35 | 37.40 | -1.0 |
| | 1.2s | 23.40nm | | | 4.8mb |
| FBA | 87.52 | 13 iPc | 35 | 37.00 | -1.6 |

| | | | | | | | | | | | | | | | | | | | | |
|---------|--------|----------|--------|----|-------|--------|------|-------------------------------------|---------|-------|----|-------|-------|--|--|--|--|--|--|--|
| 04d 14h | | | | | | | | | | | | | | | | | | | | |
| MHC | 87.53 | 315 | eP | 35 | 41.00 | 1.6 | BSF | 151.18 | 351 | ePKP | 42 | 40.60 | 5.2X | | | | | | | |
| ALO | 87.90 | 52 | eP | 35 | 41.00 | -0.4 | VOY | 151.22 | 340 | ePKP | 42 | 40.40 | 4.9X | | | | | | | |
| | 1.0s | 25.00nm | | | | 5.0mb | VBY | 151.23 | 338 | ePKPd | 42 | 41.80 | 6.4X | | | | | | | |
| CHG | 88.47 | 290 | eP | 35 | 45.80 | 1.7 | SKO | 151.30 | 326 | ePKP | 42 | 40.00 | 4.4X | | | | | | | |
| CHTO | 88.47 | 290 | eP | 35 | 44.30 | 0.3 | | | | | | | | | | | | | | |
| LRM | 88.84 | 40 | eP | 35 | 45.50 | 0.0 | CEY | 151.31 | 339 | ePKP | 42 | 40.50 | 4.9X | | | | | | | |
| BW06 | 89.21 | 44 | P | 35 | 46.20 | -1.1 | LPF | 151.43 | 2 | ePKP | 42 | 41.10 | 5.5X | | | | | | | |
| | 1.0s | 35.00nm | | | | 5.2mb | LOR | 152.08 | 355 | ePKP | 42 | 42.70 | 6.1X | | | | | | | |
| GOL | 90.70 | 48 | P | 35 | 54.00 | -0.2 | OHR | 152.24 | 326 | ePKP | 42 | 42.70 | 5.6X | | | | | | | |
| LZH | 90.93 | 308 | eP | 35 | 54.50 | -0.7 | SSF | 152.31 | 355 | ePKP | 42 | 43.50 | 6.6X | | | | | | | |
| SES | 91.89 | 37 | eP | 35 | 59.00 | -0.2 | LBF | 152.35 | 355 | ePKP | 42 | 43.20 | 6.2X | | | | | | | |
| EDM | 92.02 | 33 | ePc | 35 | 57.60 | -2.1 | AVF | 152.59 | 356 | ePKP | 42 | 43.60 | 6.3X | | | | | | | |
| INK | 93.63 | 16 | eP | 36 | 06.00 | -0.7 | VAI | 152.73 | 347 | PKP | 42 | 40.00 | 2.5X | | | | | | | |
| GTA | 95.13 | 310 | eP | 36 | 14.00 | -0.4 | BGF | 152.86 | 356 | ePKP | 42 | 45.20 | 7.5X | | | | | | | |
| YKA | 96.16 | 25 | P | 36 | 18.00 | -0.3 | MFF | 152.88 | 1 | ePKP | 42 | 44.30 | 6.6X | | | | | | | |
| KJF | 131.62 | 344 | ePKP | 42 | 01.00 | 0.3 | TCF | 153.16 | 357 | ePKP | 42 | 44.90 | 6.7X | | | | | | | |
| BUL | 131.95 | 217 | ePKP | 42 | 01.90 | -1.0 | MAF | 153.21 | 357 | ePKP | 42 | 45.80 | 7.6X | | | | | | | |
| | | | iSKP | 44 | 44.00 | | LSF | 153.22 | 358 | ePKP | 42 | 44.80 | 6.6X | | | | | | | |
| SUF | 133.24 | 344 | iPKP | 42 | 03.60 | -0.3 | BNG | 156.88 | 232 | ePKPc | 42 | 44.00 | -0.1 | | | | | | | |
| | 0.7s | 3.70nm | | | | | | | | | | | | | | | | | | |
| NAO | 137.98 | 352 | PKP | 41 | 58.40 | -14.5X | | | | | | | | | | | | | | |
| | 1.2s | 10.70nm | | | | | LIC | 165.86 | 157 | PKP | 42 | 53.70 | 0.7 | | | | | | | |
| HFS | 138.23 | 350 | ePKP | 42 | 03.10 | -10.3X | KIC | 166.09 | 158 | PKP | 42 | 53.60 | 0.4 | | | | | | | |
| | 0.5s | 2.00nm | | | | | TIC | 166.25 | 157 | PKP | 42 | 53.90 | 0.6 | | | | | | | |
| EKA | 144.04 | 3 | PKP | 42 | 21.00 | -2.7X | | S.D. = 0.9 on 123 of 176 obs. | | | | | | | | | | | | |
| | 1.5s | 121.30nm | | | | | | | | | | | | | | | | | | |
| LWI | 144.78 | 235 | iPKPc | 42 | 28.30 | 1.8 | | % FEB 04, 1989 15h 28m 06.23± 1.16s | | | | | | | | | | | | |
| DMU | 145.12 | 8 | ePKP | 42 | 24.00 | -1.6 | | 42.619 N ± 11.1km 23.546 E ± 7.6km | | | | | | | | | | | | |
| | 0.8s | 79.00nm | | | | | | DEPTH = 10.0km (geophysicist) | | | | | | | | | | | | |
| DCN | 145.62 | 8 | ePKP | 42 | 23.50 | -2.9X | | BULGARIA (359) | | | | | | | | | | | | |
| KRA | 145.69 | 338 | ePKP | 42 | 26.00 | -0.7 | VTS | 0.25 | 264 | iPg | 28 | 12.00 | 0.4 | | | | | | | |
| DLE | 145.77 | 7 | ePKP | 42 | 26.40 | -0.3 | KKB | 0.83 | 205 | iPg | 28 | 21.00 | -1.2 | | | | | | | |
| | 0.7s | 68.00nm | | | | | MMB | 1.04 | 172 | eP | 28 | 27.00 | 1.1 | | | | | | | |
| VR1 | 145.85 | 327 | ePKPd | 42 | 27.50 | 0.4 | | | | | | | | | | | | | | |
| KSP | 146.21 | 342 | ePKP | 42 | 28.00 | 0.5 | | | | | | | | | | | | | | |
| | 1.1s | 58.00nm | | | | | RZN | 1.27 | 137 | eP | 28 | 29.00 | -1.0 | | | | | | | |
| | | | e | 43 | 47.40 | | PVL | 1.44 | 65 | eP | 28 | 32.00 | -0.4 | | | | | | | |
| | | | e | 44 | 26.70 | | KDZ | 1.69 | 124 | iPc | 28 | 37.00 | 1.0 | | | | | | | |
| SPC | 146.29 | 336 | ePKP | 42 | 30.20 | 2.3X | | | | | | | | | | | | | | |
| IKL | 146.35 | 307 | ePKP | 42 | 28.00 | -0.2 | | | | | | | | | | | | | | |
| ETA | 146.39 | 7 | PKP | 42 | 30.00 | 2.3X | | S.D. = 1.3 on 6 of 6 obs. | | | | | | | | | | | | |
| | 0.8s | 55.00nm | | | | | | | | | | | | | | | | | | |
| MLR | 146.51 | 327 | ePKPd | 42 | 31.00 | 2.7X | | FEB 04, 1989 15h 51m 52.33± 0.19s | | | | | | | | | | | | |
| CLL | 146.66 | 346 | iPKP | 42 | 29.00 | 0.8 | | 0.082 N ± 3.6km 16.658 W ± 4.1km | | | | | | | | | | | | |
| | 0.8s | 37.00nm | | | | | | DEPTH = 10.0km (geophysicist) | | | | | | | | | | | | |
| WTS | 147.10 | 353 | ePKP | 42 | 30.50 | 1.7 | | 5.6mb (51 obs.) 5.4Msz (5 obs.) | | | | | | | | | | | | |
| | 1.2s | 78.00nm | | | | | | NORTH OF ASCENSION ISLAND (407) | | | | | | | | | | | | |
| PSZ | 147.46 | 335 | ePKP | 42 | 32.00 | 2.3X | | CENTROID, MOMENT TENSOR (HRV) | | | | | | | | | | | | |
| MOX | 147.59 | 347 | ePKP | 42 | 32.00 | 2.3X | | Data Used: GDSN | | | | | | | | | | | | |
| | 1.4s | 39.00nm | | | | | | L.P.B.: 12S, 30C | | | | | | | | | | | | |
| CTT | 147.76 | 318 | ePKP | 42 | 28.00 | -2.3X | | Centroid Location: | | | | | | | | | | | | |
| JMB | 148.11 | 322 | iPKPc | 42 | 36.00 | 5.2X | | Origin Time 15:51:59.3 0.4 | | | | | | | | | | | | |
| SRO | 148.15 | 337 | ePKP | 42 | 33.70 | 3.0X | | Lat 0.15N 0.05 Lon 16.68W 0.04 | | | | | | | | | | | | |
| ZST | 148.26 | 339 | ePKP | 42 | 34.30 | 3.5X | | Dep 15.0 FIX Half-duration 2.9 | | | | | | | | | | | | |
| ENN | 148.41 | 353 | ePKP | 42 | 35.00 | 4.0X | | Moment Tensor: Scale 10**17 Nm | | | | | | | | | | | | |
| | 1.1s | 53.00nm | | | | | | Mrr=-3.09 0.09 Mtt=-1.62 0.15 | | | | | | | | | | | | |
| KHC | 148.52 | 343 | PKP | 42 | 32.80 | 1.5 | | Mff= 4.70 0.17 Mrt= 2.59 0.27 | | | | | | | | | | | | |
| | | | i | 42 | 35.90 | | | Mrf=-2.59 0.41 Mtf=-0.13 0.09 | | | | | | | | | | | | |
| BZS | 148.54 | 331 | ePKP | 42 | 30.00 | -1.3 | | Principal Axes: | | | | | | | | | | | | |
| MEM | 148.56 | 353 | PKP | 42 | 32.60 | 1.4 | | T Val= 5.60 Plg=19 Azm= 82 | | | | | | | | | | | | |
| GRF | 148.58 | 346 | ePKP | 42 | 35.80 | 4.5X | | N -0.15 29 341 | | | | | | | | | | | | |
| TNS | 148.60 | 350 | ePKPd | 42 | 34.80 | 3.4X | | P -5.45 55 200 | | | | | | | | | | | | |
| SNF | 148.82 | 355 | PKP | 42 | 31.40 | -0.2 | | Best Double Couple: Mo=5.5*10**17 | | | | | | | | | | | | |
| DOU | 149.21 | 355 | PKPc | 42 | 35.00 | 2.8X | | NP1: Strike=209 Dip=37 Slip=-36 | | | | | | | | | | | | |
| KDZ | 149.30 | 322 | iPKPc | 42 | 37.00 | 4.3X | | NP2: 329 69 -121 | | | | | | | | | | | | |
| WLF | 149.47 | 353 | PKP | 42 | 32.50 | -0.1 | LIC | 13.11 | 62 | Pc | 54 | 56.26 | -5.1X | | | | | | | |
| | | | ic | 42 | 37.30 | | TIC | 13.32 | 60 | Pc | 54 | 58.90 | -5.2X | | | | | | | |
| RZN | 149.68 | 322 | iPKP | 42 | 38.00 | 4.5X | | | | | | | | | | | | | | |
| VTS | 149.92 | 325 | iPKP | 42 | 49.00 | 15.2X | KIC | 13.43 | 62 | Pc | 55 | 00.82 | -4.7X | | | | | | | |
| MMB | 150.31 | 323 | ePKP | 42 | 38.00 | 3.8X | | | | | | | | | | | | | | |
| KBA | 150.45 | 342 | e(PKP) | 42 | 37.00 | 2.6X | | | | | | | | | | | | | | |
| | 0.9s | 14.70nm | | | | | | | | | | | | | | | | | | |
| | | | i | 42 | 39.50 | | KUK | 17.35 | 69 | eP | 55 | 53.00 | -3.3X | | | | | | | |
| | | | i | 42 | 49.20 | | | | | | | | | | | | | | | |
| | | | i | 44 | 43.40 | | LEGH | 17.35 | 71 | eP | 55 | 54.50 | -1.8 | | | | | | | |
| CDF | 150.55 | 351 | ePKP | 42 | 39.10 | 4.7X | KOGH | 17.43 | 70 | eP | 55 | 55.00 | -2.4 | | | | | | | |
| FLN | 150.72 | 1 | ePKP | 42 | 39.50 | 5.0X | SHGH | 17.57 | 70 | eP | 55 | 57.50 | -1.6 | | | | | | | |
| LDF | 150.89 | 1 | ePKP | 42 | 39.90 | 5.1X | TIO | 31.95 | 15 | iPc | 58 | 20.90 | 0.1 | | | | | | | |
| RBL | 150.96 | 341 | PKP | 42 | 38.70 | 3.6X | AVE | 34.17 | 14 | iP | 58 | 40.50 | 0.6 | | | | | | | |
| | | | eSn | 42 | 48.50 | | | | | | | | | | | | | | | |
| LJU | 151.00 | 339 | ePKP | 42 | 40.00 | 4.9X | | | | | | | | | | | | | | |
| FVI | 151.05 | 342 | PKP | 42 | 40.20 | 5.1X | | | | | | | | | | | | | | |
| | | | (Sn) | 42 | 49.80 | | | | | | | | | | | | | | | |
| HAU | 151.08 | 352 | ePKP | 42 | 40.40 | 5.2X | BCAO | 35.42 | 83 | eP | 58 | 50.70 | -0.3 | | | | | | | |
| GRR | 151.08 | 2 | ePKP | 42 | 40.30 | 5.2X | | | | | | | | | | | | | | |
| VAY | 151.14 | 324 | ePKP | 42 | 40.00 | 4.6X | BNG | 0.7s | 27.48nm | | | | 5.2mb | | | | | | | |
| | | | i | 42 | 51.40 | | | | | | | | | | | | | | | |
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|------|-------|----------|----------|--------|------|-------|----------|----------|---------|------|--------|----------|----------|--------|
| RRL | 49.24 | 22 P | 00 43.89 | 0.6 | TTG | 53.09 | 33 eP | 01 13.00 | 0.8 | PSN | 58.98 | 37 eP | 01 53.00 | -1.4 |
| BNI | 49.32 | 22 P | 00 44.50 | 0.8 | WLF | 53.13 | 18 Pc | 01 12.80 | 0.5 | HRI | 59.20 | 51 eP | 01 58.00 | 1.6 |
| BGF | 49.35 | 18 eP | 00 44.50 | 0.7 | | | e | 03 11.60 | | BHL | 59.38 | 50 Pc | 01 57.00 | -0.6 |
| | 2.0s | 233.20nm | | 5.8mb | RBL | 53.23 | 26 Pc | 01 13.10 | -0.2 | VRI | 59.41 | 34 ePc | 01 56.00 | -1.5 |
| CKI | 49.40 | 23 P | 00 44.00 | -0.3 | PHP | 53.25 | 34 eP | 01 14.60 | 1.3 | CFR | 59.82 | 35 eP | 01 58.00 | -2.2 |
| MGR | 49.49 | 33 P | 00 44.70 | -0.3 | CNCB | 53.26 | 249 iPd | 01 14.60 | 0.1 | 8BTK | 59.88 | 43 iP | 02 01.00 | 0.1 |
| RFI | 49.52 | 30 P | 00 47.02 | 1.9 | | | i | 02 22.00 | | JACH | 60.28 | 232 iPc | 02 04.00 | 0.2 |
| PTZ | 49.57 | 109 iPc | 00 46.00 | -0.1 | VBY | 53.28 | 28 ePc | 01 14.20 | 0.7 | FCH | 60.29 | 231 iPc | 02 05.20 | 1.1 |
| RSP | 49.62 | 22 P | 00 46.14 | 0.1 | ZOBO | 53.28 | 250 (P) | 01 15.00 | 0.3 | PEL | 60.52 | 231 iPd | 02 05.50 | 0.1 |
| BFS | 49.63 | 126 iPd | 00 47.50 | 1.1 | | | S | 08 52.00 | | SAN | 60.62 | 231 iPd | 02 10.60 | 4.6X |
| | 0.4s | 25.42nm | | 5.6mb | | | LR | 16 48.00 | | LNV | 61.39 | 231 ePd | 02 10.70 | -0.4 |
| GEN | 49.66 | 24 P | 00 45.02 | -1.2 | LPB | 53.31 | 249 P | 01 14.80 | 0.1 | NAO | 64.16 | 15 P | 02 27.10 | -2.0 |
| MNS | 49.70 | 28 P | 00 46.61 | 0.0 | | 1.0s | 80.00nm | | 5.6mb | | 1.6s | 82.70nm | | 5.7mb |
| AVF | 49.71 | 18 eP | 00 46.90 | 0.4 | | Z 24s | 7.75um | | 5.7MsZ | | 64.33 | 16 eP | 02 28.60 | -1.6 |
| | 1.4s | 43.50nm | | 5.2mb | | | S | 08 48.00 | | | 2.1s | 527.10nm | | 6.4mb |
| LPG | 49.72 | 21 eP | 00 47.90 | 0.8 | | | LR | 16 40.00 | | | Z 18s | 2.00um | | 5.3MsZ |
| | 1.4s | 108.90nm | | 5.6mb | SNF | 53.32 | 17 P | 01 10.60 | -3.1X | | | LR | 26 55.00 | |
| SMF | 49.73 | 18 eP | 00 47.10 | 0.3 | LJU | 53.35 | 27 eP | 01 14.10 | 0.0 | BNH | 65.49 | 320 P | 02 37.00 | -1.0 |
| | 1.5s | 47.00nm | | 5.3mb | NEO | 53.40 | 38 eP | 01 09.00 | -5.5X | AVY | 65.87 | 111 eP | 02 43.50 | 2.4 |
| SDI | 49.74 | 30 P | 00 47.50 | 0.6 | BCI | 53.49 | 33 eP | 01 17.50 | 2.4 | MSL | 66.00 | 50 ePd | 02 41.50 | 0.1 |
| FRS | 49.78 | 130 iPd | 00 48.30 | 1.0 | KBA | 53.64 | 25 eP | 01 15.00 | -1.4 | | | eS | 11 29.50 | |
| | 0.6s | 16.67nm | | 5.2mb | | 1.7s | 100.00nm | | 5.5mb | BHD | 66.02 | 53 ePd | 02 43.00 | 1.4 |
| LSD | 49.84 | 22 P | 00 47.99 | 0.1 | | | ic | 01 17.30 | | | | eS | 11 33.00 | |
| SSF | 50.00 | 18 eP | 00 49.10 | 0.3 | DCN | 53.65 | 7 eP | 01 16.80 | 0.7 | PRIN | 66.10 | 315 P | 02 41.00 | -0.9 |
| | 1.6s | 118.10nm | | 5.6mb | FUR | 53.66 | 23 iPc | 01 15.50 | -0.8 | RSNY | 67.59 | 319 P | 02 50.00 | -1.4 |
| GRR | 50.02 | 14 eP | 00 48.80 | -0.1 | DLE | 53.69 | 8 eP | 01 14.00 | -2.3 | | 1.0s | 16.67nm | | 5.2mb |
| | 1.4s | 78.40nm | | 5.5mb | ZAG | 53.85 | 28 eP | 01 18.50 | 0.9 | NUR | 68.10 | 21 eP | 02 55.00 | 0.7 |
| DUI | 50.03 | 30 Pc | 00 50.80 | 1.6 | PTJ | 53.90 | 28 eP | 01 18.00 | -0.2 | | Z 22s | 2.00um | | 5.3MsZ |
| BDI | 50.07 | 26 P | 00 49.00 | -0.4 | MEM | 53.91 | 18 Pc | 01 17.80 | -0.2 | | | LR | 31 20.00 | |
| LBF | 50.08 | 18 eP | 00 49.50 | 0.1 | BHG | 53.95 | 24 eP | 01 17.30 | -1.1 | GAC | 68.66 | 320 eP | 02 57.00 | -1.0 |
| | 1.6s | 95.70nm | | 5.5mb | SKO | 54.00 | 35 iPc | 01 18.80 | -0.1 | TAB | 68.94 | 49 e(P) | 03 03.00 | 2.9X |
| FIR | 50.13 | 26 eP | 00 47.50 | -2.3 | | 1.5s | 144.00nm | | 5.8mb | SUF | 70.16 | 19 iP | 03 06.20 | -0.7 |
| BOB | 50.16 | 24 P | 00 51.10 | 1.0 | | Z 16s | 2.06um | | 5.3MsZ | | 0.7s | 23.70nm | | 5.4mb |
| PRY | 50.20 | 126 iPc | 00 50.00 | -0.8 | | N 16s | 2.88um | | | KJF | 71.69 | 19 eP | 03 15.00 | -1.1 |
| | 0.7s | 12.50nm | | 5.0mb | | E 16s | 2.24um | | | | 0.9s | 49.00nm | | 5.6mb |
| ASS | 50.22 | 28 P | 00 50.50 | -0.1 | | | eS | 08 55.00 | | SOD | 73.56 | 16 iP | 03 26.20 | -0.9 |
| EMS | 50.28 | 21 ePc | 00 51.20 | 0.0 | | | LR | 25 24.00 | | AIA | 73.59 | 199 eP | 03 28.50 | 1.3 |
| LOR | 50.29 | 18 eP | 00 51.10 | 0.1 | ENN | 54.02 | 18 ePc | 01 19.00 | 0.1 | FRB | 73.99 | 339 eP | 03 29.00 | -0.6 |
| | 1.8s | 138.10nm | | 5.6mb | | 1.4s | 184.00nm | | 5.9mb | KEV | 75.34 | 14 eP | 03 38.00 | 0.7 |
| ORX | 50.30 | 22 P | 00 50.04 | -1.2 | PLG | 54.18 | 37 eP | 01 20.00 | -0.2 | MHI | 78.80 | 53 iPd | 03 57.20 | -0.2 |
| CRE | 50.32 | 27 P | 00 50.50 | -0.9 | DMU | 54.24 | 7 eP | 01 21.50 | 1.1 | | | e | 14 00.00 | |
| BPI | 50.34 | 125 iPc | 00 51.00 | -1.0 | VAY | 54.24 | 36 eP | 01 20.70 | 0.1 | RLO | 80.56 | 307 eP | 04 06.10 | -0.7 |
| | 0.8s | 59.70nm | | 5.6mb | TNS | 54.36 | 20 iPc | 01 23.00 | 1.5 | LNO | 81.15 | 306 eP | 04 09.00 | -0.7 |
| PGD | 50.41 | 26 Pc | 00 51.20 | -1.0 | GRF | 54.89 | 22 eP | 01 25.50 | 0.1 | TUL | 81.15 | 306 ePc | 04 09.50 | -0.4 |
| DIX | 50.46 | 22 ePc | 00 52.80 | 0.1 | | 1.5s | 68.00nm | | 5.5mb | | 1.1s | 37.80nm | | 5.3mb |
| SFI | 50.51 | 27 P | 00 52.50 | -0.1 | | Z 14s | 2.20um | | 5.4MsZ | | Z 22s | 1.80um | | 5.4MsZ |
| MMK | 50.64 | 22 ePc | 00 54.10 | 0.1 | MMB | 55.09 | 36 iPc | 01 27.00 | 0.0 | SIO | 81.55 | 306 e(P) | 04 11.50 | -0.4 |
| ARV | 50.68 | 28 P | 00 54.50 | 0.5 | KHC | 55.35 | 24 iPc | 01 28.00 | -0.7 | MEQ | 83.32 | 305 iPd | 04 20.80 | -0.4 |
| RSM | 50.78 | 27 Pc | 00 57.50 | 2.8 | | 1.2s | 25.00nm | | 5.1mb | QUE | 84.43 | 60 eP | 04 29.00 | 1.9 |
| VAI | 50.80 | 23 P | 00 54.30 | -0.5 | | | e | 03 38.90 | | ALE | 84.66 | 355 eP | 04 28.00 | 1.0 |
| BRT | 50.91 | 33 P | 00 50.00 | -5.8X | BEO | 55.35 | 31 iP | 01 29.50 | 0.8 | | 1.1s | 15.00nm | | 5.1mb |
| LCI | 50.95 | 34 P | 00 56.00 | 0.0 | WTS | 55.37 | 17 iPc | 01 29.00 | 0.3 | FFC | 87.22 | 325 eP | 04 39.00 | -1.1 |
| TMA | 51.04 | 23 ePc | 00 55.60 | -1.3 | | 1.0s | 61.00nm | | 5.6mb | | 1.5s | 59.00nm | | 5.6mb |
| LOMF | 51.34 | 20 P | 00 58.52 | -0.6 | IZM | 55.47 | 41 eP | 01 26.00 | -3.8X | GLD | 88.84 | 310 P | 04 49.00 | 0.5 |
| VDL | 51.58 | 23 ePc | 00 59.50 | -1.6 | RZN | 55.74 | 37 iPc | 01 32.00 | 0.2 | GOL | 88.96 | 310 P | 04 49.00 | -0.1 |
| BBS | 51.68 | 21 P | 01 01.13 | -0.5 | MOX | 55.82 | 21 eP | 01 30.00 | -2.0 | | 1.0s | 55.00nm | | 5.8mb |
| LLS | 51.72 | 22 ePc | 01 01.00 | -1.1 | | 2.3s | 242.00nm | | 5.8mb | BOM | 89.48 | 71 eP | 04 55.60 | 4.1X |
| BSF | 51.74 | 20 P | 01 01.26 | -0.9 | VKA | 55.83 | 26 ePc | 01 31.00 | -1.2 | | | eS | 15 22.60 | |
| HAU | 51.74 | 20 eP | 01 01.90 | -0.2 | | 4.0s | 746.00nm | | 6.1mb X | ALO | 89.79 | 305 eP | 04 52.00 | -1.1 |
| | 1.2s | 71.40nm | | 5.5mb | ZST | 56.13 | 27 iP | 01 33.00 | -1.3 | | Z 20s | 1.60um | | 5.4MsZ |
| VAM | 51.78 | 43 eP | 01 01.50 | -1.0 | | | e | 03 09.30 | | SPA | 90.08 | 180 iPd | 04 36.00 | -17.7X |
| VITF | 51.81 | 19 P | 01 02.10 | -0.3 | | | e | 03 38.80 | | | 1.0s | 97.50nm | | |
| ZLA | 52.01 | 21 ePc | 01 03.20 | -0.9 | KDZ | 56.14 | 37 iPc | 01 34.00 | -0.5 | | Z 20s | 1.40um | | 5.4MsZ |
| OSS | 52.01 | 23 ePc | 01 02.80 | -1.5 | SRO | 56.40 | 28 iP | 01 36.60 | 0.4 | POO | 90.46 | 72 eP | 04 58.00 | 1.8 |
| CTI | 52.11 | 25 P | 01 04.00 | -0.9 | | | e | 02 47.00 | | KSH | 91.99 | 51 eP | 05 04.30 | 1.3 |
| SAX | 52.17 | 22 ePc | 01 04.50 | -1.1 | ELL | 56.42 | 44 iP | 01 36.60 | -0.2 | BW06 | 92.08 | 313 P | 05 00.00 | -3.5X |
| FEL | 52.21 | 21 P | 01 04.32 | -1.4 | BZS | 56.50 | 31 eP | 01 37.50 | 0.6 | SES | 92.74 | 320 eP | 05 06.00 | -0.1 |
| SLE | 52.29 | 21 ePc | 01 05.30 | -0.9 | BUD | 56.50 | 28 eP | 01 35.70 | -1.2 | MBG | 92.94 | 346 eP | 05 08.00 | 1.5 |
| BERA | 52.32 | 35 eP | 01 07.50 | 1.0 | CLL | 56.87 | 22 iPd | 01 39.40 | -0.2 | | 1.4s | 47.00nm | | 5.7mb |
| LSK | 52.34 | 36 eP | 01 08.10 | 1.3 | | 2.6s | 270.00nm | | 5.8mb | NDI | 93.36 | 61 eP | 05 09.20 | -0.2 |
| CDF | 52.41 | 20 P | 01 05.86 | -1.3 | KHL | 56.94 | 43 iP | 01 38.30 | -2.1 | YKA | 93.61 | 333 P | 05 10.20 | 0.4 |
| OGA | 52.51 | 24 eP | 01 07.10 | -1.0 | PVL | 57.02 | 36 eP | 01 39.00 | -1.7 | EDM | 93.95 | 323 ePd | 05 11.20 | -0.4 |
| HCY | 52.69 | 32 eP | 01 10.00 | 0.8 | MBH | 57.21 | 54 ePc | 01 43.00 | 0.7 | GBA | 93.96 | 76 P | 05 12.50 | 0.2 |
| HJA | 52.69 | 240 iPd | 01 11.00 | 1.4 | PSZ | 57.22 | 28 eP | 01 41.50 | -0.7 | LRM | 93.99 | 316 eP | 05 11.90 | -0.4 |
| TIR | 52.70 | 34 ePc | 01 09.20 | -0.1 | JMB | 57.32 | 37 iPd | 01 43.00 | 0.1 | HYB | 94.95 | 73 eP | 05 15.00 | -1.9 |
| TRI | 52.75 | 26 P | 01 09.20 | -0.4 | DMK | 57.67 | 38 eP | 01 43.00 | -2.3 | KVN | 98.83 | 309 P | 05 33.00 | -1.3 |
| BDV | 52.76 | 33 eP | 01 11.00 | 1.2 | CTT | 57.72 | 39 eP | 01 40.00 | -5.7X | GYA | 119.46 | 59 PKP | 10 44.60 | -0.1 |
| ULC | 52.77 | 33 eP | 01 10.70 | 0.8 | KSP | 57.78 | 24 eP | 01 44.50 | -1.5 | TIY | 119.95 | 45 ePKP | 10 45.50 | 0.2 |
| ATH | 52.92 | 40 eP | 00 54.00 | -17.0X | YLV | 58.01 | 40 iP | 01 46.30 | -1.5 | | E 16s | 1.00um | | |
| SDA | 52.94 | 33 eP | 01 11.30 | 0.2 | SPC | 58.28 | 28 iP | 01 49.50 | -0.3 | BJI | 121.40 | 41 (PKP) | 10 47.50 | -0.3 |
| GWF | 53.01 | 20 P | 01 10.93 | -0.6 | HRT | 58.33 | 40 eP | 01 48.80 | -1.3 | WHN | 124.43 | 52 PKP | 10 53.60 | -0.4 |
| FVI | 53.02 | 25 P | 01 11.50 | 0.0 | JVI | 58.39 | 52 iPc | 01 51.00 | 0.5 | CN2 | 124.78 | 33 ePKP | 10 53.00 | -1.2 |
| BRV | 53.03 | 32 eP | 01 12.00 | 0.1 | MLR | 58.75 | 34 ePc | 01 52.00 | -1.0 | | Z 24s | 1.20um | | 5.5MsZ |
| DOU | 53.03 | 17 P | 01 11.70 | 0.0 | KRA | 58.76 | 27 eP | 01 52.60 | -0.2 | | | ePP | 12 35.00 | |
| VOY | 53.06 | 26 ePd | 01 11.40 | -0.7 | | 0.6s | 21.00nm | | 5.4mb | SNY | 125.00 | 36 ePKP | 10 54.50 | -0.2 |
| CEY | 53.07 | 27 eP | 01 11.70 | -0.4 | ISR | 58.87 | 34 ePc | 01 53.00 | -0.8 | ADE | 138.36 | 149 ePKP | 11 21.30 | 0.8 |
| OHR | 53.08 | 35 eP | 01 11.20 | -1.0 | IKL | 58.88 | 47 eP | 01 52.00 | -1.9 | CAN | 142.48 | 161 ePKP | 11 28.80 | 1.0 |

04d 16h

BWA 143.09 159 ePKP 11 27.00 -1.9
 CMS 144.63 154 iPKPc 11 30.80 -0.7
 WRA 145.41 127 PKPc 11 33.30 0.1
 1.1s 114.90nm
 WB5 145.47 126 ePKP 11 32.20 -1.1
 MTN 145.64 113 ePKP 11 34.00 0.4
 COO 147.78 161 ePKP 11 38.00 1.2
 e 11 41.00

OIS 149.13 133 iPKPd 11 43.60 4.4X
 0.9s 129.00nm
 RMO 150.22 153 iPKPc 11 42.50 1.9
 e 11 47.00
 BRS 151.01 160 PKPd 11 48.50 6.7X
 i 12 02.00
 CTA 154.01 141 iPKPd 11 55.20 8.9X
 1.1s 98.73nm

S.D. = 1.1 on 257 of 282 obs.

? FEB 04, 1989 16h 30m 16.22±3.68s
 23.221 N ±18.4km 122.093 E ±27.7km
 DEPTH = 10.0km (geophysicist)

TAIWAN REGION (243)

TWF1 0.74 280 iPd 30 30.90 0.1
 eS 30 41.00
 TWD 0.97 332 iPc 30 34.30 -0.3
 eS 30 47.40
 TWG 1.02 247 iPc 30 35.20 -0.3
 TWC 1.40 351 iPc 30 41.90 0.2
 TWK 1.48 272 ePc 30 43.30 0.4

S.D. = 0.5 on 5 of 5 obs.

FEB 04, 1989 17h 00m 02.50±0.37s
 1.087 S ±5.2km 13.610 W ±6.8km
 DEPTH = 10.0km (geophysicist)
 5.2mb (46 obs.)

NORTH OF ASCENSION ISLAND (407)

LIC 11.23 50 P 02 41.14 -5.0X
 S 04 37.50
 TIC 11.51 48 P 02 45.08 -4.9X
 S 04 46.18
 KIC 11.54 50 Pc 02 46.20 -4.2X
 S 04 47.02
 LEGH 14.99 63 eP 03 40.50 4.3X
 e 06 07.50
 KUK 15.07 61 eP 03 33.50 -3.7X
 e 06 05.50
 KOGH 15.13 62 eP 03 44.50 6.4X
 e 06 11.00
 SHGH 15.23 63 eP 03 39.00 -0.4
 e 06 16.00
 TIO 32.40 10 eP 06 35.00 0.1
 i 07 28.40
 BCAA 32.58 80 iPc 06 36.70 0.1
 1.0s 12.25nm 4.8mb
 BNG 32.59 80 iPc 06 36.80 0.1
 0.6s 11.00nm 5.0mb
 IFR 35.33 12 iPd 07 02.00 1.7
 TOL 41.70 11 eP 07 53.50 0.4
 TUH 44.40 140 eP 07 56.00 -19.2X
 0.7s 13.70nm
 CER 44.53 140 iPd 08 14.80 -1.5
 1.0s 40.00nm 5.3mb
 BUL 45.40 118 eP 08 25.30 1.7
 EPF 45.68 14 eP 08 26.20 0.9
 1.2s 24.90nm 5.1mb
 BFS 46.49 127 eP 08 32.50 0.4
 GIB 46.50 30 P 08 33.50 1.5
 FRS 46.71 131 eP 08 25.00 -8.6X
 0.6s 9.33nm 5.0mb
 i 08 40.00
 PRY 47.05 127 eP 08 35.00 -1.6
 0.8s 9.38nm 4.9mb
 BPI 47.18 126 eP 08 37.00 -0.6
 0.7s 21.92nm 5.4mb
 LPO 47.44 14 eP 08 39.50 0.3
 1.2s 23.80nm 5.2mb
 LFF 47.57 14 eP 08 40.80 0.6
 1.0s 16.00nm 5.1mb
 LMR 47.77 20 iPc 08 42.30 0.5
 0.8s 18.80nm 5.2mb
 LRG 47.82 20 iPc 08 42.90 0.7
 1.0s 28.00nm 5.3mb
 CAF 47.89 15 eP 08 42.90 0.2
 1.2s 32.70nm 5.3mb
 CVF 47.95 22 P 08 43.53 0.3

FRF 48.01 20 iPc 08 44.10 0.4
 1.0s 24.00nm 5.2mb
 RJF 48.10 14 eP 08 44.60 0.2
 1.0s 9.60nm 4.8mb
 CALN 48.27 20 P 08 46.37 0.5
 MVIF 48.48 20 P 08 48.03 0.5
 AURF 48.53 20 P 08 48.10 0.3
 SBF 48.55 20 iPc 08 48.30 0.4
 1.0s 44.00nm 5.5mb
 TOUF 48.62 20 P 08 49.29 0.7
 AUTN 48.66 20 P 08 49.57 0.6
 SAOF 48.70 20 P 08 48.97 -0.1
 IMI 48.75 21 P 08 49.64 0.2
 STV 48.85 20 P 08 51.18 0.9
 MGR 48.91 30 P 08 51.00 0.4
 LSF 48.99 14 iPc 08 51.70 0.5
 1.0s 36.80nm 5.4mb
 PZZ 49.00 20 P 08 52.72 1.2
 DOI 49.05 20 P 08 53.20 1.4
 ROB 49.08 20 P 08 52.62 0.6
 FIN 49.12 21 P 08 52.72 0.4
 TCF 49.19 14 iPc 08 53.40 0.6
 1.0s 22.00nm 5.1mb
 MAF 49.22 15 iPc 08 53.70 0.7
 1.3s 54.10nm 5.4mb
 RRL 49.26 19 P 08 54.46 0.8
 SDI 49.30 27 P 08 54.50 0.8
 MNS 49.35 26 P 08 54.00 0.0
 BNI 49.35 19 Pc 08 55.00 0.9
 DUI 49.56 28 P 08 57.30 1.5
 BGF 49.61 15 iPc 08 56.60 0.7
 1.0s 14.80nm 4.9mb
 RSP 49.63 19 P 08 56.41 0.2
 LPG 49.77 19 iPc 08 58.80 1.2
 1.1s 46.30nm 5.4mb
 LSD 49.86 19 P 08 58.87 0.6
 FIR 49.90 23 eP 08 56.50 -1.7
 SMF 49.95 16 eP 08 58.80 0.2
 1.2s 17.80nm 4.9mb
 AVF 49.95 15 eP 08 59.10 0.5
 1.0s 10.00nm 4.7mb
 BOB 50.05 21 Pc 09 00.90 1.4
 PGD 50.17 24 P 08 58.00 -2.5
 SSF 50.24 15 iPc 09 01.00 0.2
 0.8s 17.40nm 5.1mb
 ORX 50.29 20 P 08 59.90 -1.4
 LBF 50.30 16 iPc 09 01.40 0.1
 1.2s 32.70nm 5.2mb
 EMS 50.33 19 ePc 09 02.00 0.2
 ARV 50.36 25 P 09 00.00 -1.8
 DIX 50.50 19 ePc 09 03.50 0.4
 GRR 50.51 11 eP 09 02.70 -0.1
 0.9s 26.20nm 5.2mb
 LOR 50.53 15 iPc 09 03.00 0.0
 0.8s 10.70nm 4.8mb
 MMK 50.65 19 ePc 09 04.30 0.0
 LDF 50.85 12 eP 09 05.30 -0.1
 1.0s 36.00nm 5.3mb
 FLN 50.94 11 eP 09 05.80 -0.2
 0.8s 10.70nm 4.8mb
 TMA 51.01 20 ePc 09 05.90 -0.9
 SAL 51.17 22 P 09 07.50 -0.3
 LOMF 51.45 18 P 09 09.29 -0.8
 VDL 51.54 20 ePc 09 09.80 -1.2
 LLS 51.71 20 ePc 09 10.90 -1.3
 BSF 51.87 17 P 09 12.01 -1.3
 HAU 51.89 17 iPc 09 13.30 -0.1
 0.8s 18.80nm 5.1mb
 OSS 51.95 21 ePc 09 13.00 -1.0
 VITF 51.98 17 P 09 13.69 -0.2
 MOF 51.99 18 P 09 13.08 -1.1
 TIR 52.01 32 eP 09 17.60 3.3X
 ZLA 52.05 19 ePc 09 13.80 -0.8
 SAX 52.16 20 ePc 09 14.60 -1.1
 FEL 52.28 18 P 09 15.62 -0.8
 SLE 52.33 19 ePc 09 15.60 -1.1
 OHR 52.34 33 eP 09 17.70 0.8
 OGA 52.42 21 eP 09 17.00 -0.6
 TRI 52.50 24 P 09 17.60 -0.3
 CDF 52.53 17 P 09 17.38 -0.9
 CEY 52.80 24 eP 09 20.00 -0.2
 VOY 52.82 24 eP 09 20.40 0.0
 FVI 52.84 23 P 09 20.60 0.2
 VBY 52.96 25 ePc 09 22.10 0.7
 RBL 53.03 23 Pc 09 22.00 0.1
 LJU 53.09 24 eP 09 22.60 0.3
 GWF 53.14 17 P 09 22.06 -0.6

SKO 53.29 32 iPc 09 24.40 0.6
 1.5s 105.00nm 5.6mb
 DOU 53.32 15 P 09 23.50 -0.4
 WLF 53.34 16 Pc 09 23.40 -0.6
 VAY 53.45 34 eP 09 25.00 0.0
 KBA 53.46 23 iPc 09 24.70 -0.6
 0.8s 7.10nm 4.7mb
 i 09 29.10
 FUR 53.61 20 iPc 09 25.50 -0.7
 SNF 53.63 14 P 09 26.00 -0.2
 BHG 53.82 22 iPc 09 26.70 -0.9
 KKB 54.11 33 eP 09 41.00 11.2X
 MEM 54.16 15 P 09 29.70 -0.3
 ENN 54.28 15 eP 09 30.50 -0.4
 0.9s 29.00nm 5.3mb
 GRB2 54.69 20 eP 09 33.30 -0.8
 1.0s 39.00nm 5.4mb
 BEO 54.81 29 eP 09 35.30 0.3
 GRF 54.90 19 eP 09 33.30 -2.3
 1.0s 39.00nm 5.4mb
 PGB 55.16 33 eP 09 38.00 0.3
 TIH 55.19 26 eP 09 39.00 1.3
 SOP 55.24 24 eP 09 37.80 -0.2
 KHC 55.25 21 P 09 37.50 -0.7
 1.2s 16.00nm 4.9mb
 KDZ 55.28 35 iPc 09 39.00 0.6
 MBH 55.47 52 iPc 09 41.50 1.5
 WTS 55.63 15 eP 09 41.00 0.2
 1.0s 35.00nm 5.3mb
 CNCB 55.72 250 eP 09 51.00 8.3X
 ZOBO 55.76 251 P 09 42.00 -1.0
 LPB 55.78 251 eP 09 39.00 -3.9X
 MOX 55.85 19 iPc 09 41.50 -0.9
 1.5s 62.00nm 5.4mb
 ZST 55.87 24 iP 09 42.10 -0.4
 BZS 55.96 29 eP 09 44.50 1.3
 SRO 56.08 25 eP 09 44.30 0.3
 JMB 56.47 35 ePd 09 47.00 0.0
 JVI 56.75 50 eP 09 50.00 0.8
 PSZ 56.85 26 eP 09 48.50 -1.2
 CLL 56.88 20 iP 09 48.60 -1.2
 2.5s 100.00nm 5.4mb
 EKA 56.88 7 P 09 49.00 -0.7
 0.6s 8.40nm 4.9mb
 HRT 57.31 38 eP 09 50.00 -3.0X
 KSP 57.66 22 eP 09 54.00 -1.3
 SPC 57.96 26 eP 09 58.00 0.4
 MLR 58.07 32 ePc 09 58.00 -0.4
 KRA 58.49 25 eP 10 03.50 2.4
 VRI 58.73 32 ePc 10 01.50 -1.4
 NAO 64.56 13 P 10 41.00 -0.9
 1.3s 25.60nm 5.3mb
 HFS 64.64 15 eP 10 40.60 -1.8
 0.6s 16.00nm 5.4mb
 SUF 70.28 18 iP 11 17.10 -0.7
 0.4s 6.60nm 5.1mb
 GAC 71.52 319 eP 11 26.00 0.4
 KJF 71.84 18 iP 11 26.10 -1.1
 0.5s 18.30nm 5.4mb
 SOD 73.86 15 iP 11 38.80 -0.2
 FRB 76.20 338 eP 11 53.00 0.6
 MHI 77.08 52 eP 11 59.00 0.9
 MEO 86.48 305 iP 12 46.90 -0.3
 ACO 87.06 307 eP 12 51.50 1.6
 SPA 88.92 180 e(P) 13 00.60 2.2
 1.0s 9.00nm 5.0mb
 FFC 89.93 325 eP 13 03.50 0.3
 1.2s 34.00nm 5.5mb
 GBA 91.27 77 Pd 13 09.20 -0.9
 0.8s 2.50nm 4.6mb
 HYB 92.39 73 eP 13 16.00 0.8
 ALO 92.95 305 eP 13 18.00 0.2
 YKA 96.04 333 P 13 35.30 4.2X

S.D. = 0.9 on 138 of 152 obs.

& FEB 04, 1989 17h 02m 02.16s
 60.052 N 152.732 W
 DEPTH = 98.7km
 SOUTHERN ALASKA (2)
 <AGS-P>.

HOM 0.68 125 eP 02 19.24 -0.2
 >NNL 0.72 90 eP 02 20.07 0.2
 eS 02 32.83
 AUL 0.76 208 eP 02 19.88 -0.4
 CNPM 0.92 124 iP 02 21.32 -0.6
 NKA 1.02 46 eP 02 24.03 1.1

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| OCR | 3.84 | 338 | iPd | 25 | 06.10 | -1.8 | SIO | 32.27 | 339 | ePc | 30 | 36.70 | -1.8 | E | 20s | 8.00um | | | | |
| LCR2 | 4.07 | 342 | iPc | 25 | 09.60 | -1.6 | OCO | 32.50 | 337 | ePc | 30 | 38.50 | -2.0 | | | ePP | 34 | 51.00 | | |
| | | | S | 25 | 48.50 | | CBN | 32.56 | 8 | eP | 30 | 41.50 | 0.6 | | | ePPP | 35 | 37.00 | | |
| ICR | 4.24 | 345 | iPc | 25 | 13.00 | -1.0 | FVM | 32.74 | 349 | P | 30 | 41.00 | -1.5 | | | i | 39 | 54.00 | | |
| IRZ2 | 4.25 | 344 | iPc | 25 | 12.40 | -1.6 | | 1.0s | 340.00nm | | | 6.2mb | | | | iS | 40 | 07.00 | | |
| SJS | 4.27 | 342 | iPd | 25 | 13.20 | -0.9 | RRO | 32.79 | 336 | ePc | 30 | 44.00 | 0.9 | | | e | 40 | 35.00 | | |
| | | | S | 25 | 58.30 | | PCO | 33.36 | 339 | ePd | 30 | 46.80 | -1.1 | | | iSS | 43 | 39.00 | | |
| HDC2 | 4.37 | 341 | iPc | 25 | 14.00 | -1.5 | HJA | 33.48 | 150 | iPd | 30 | 46.50 | -2.5 | | | i | 45 | 36.00 | | |
| | | | S | 27 | 07.00 | | ACO | 34.19 | 336 | ePd | 30 | 55.50 | 0.4 | | | i | 46 | 24.00 | | |
| CAO | 4.50 | 328 | iPc | 25 | 14.90 | -2.3 | PRIN | 35.09 | 11 | P | 31 | 03.40 | 0.6 | | | eLR | 47 | 42.00 | | |
| EPA | 4.51 | 335 | iPc | 25 | 15.70 | -1.7 | CLE | 35.49 | 2 | iP | 31 | 07.20 | 1.0 | BRK | 48.01 | 317 | eP | 32 | 49.50 | 0.8 |
| SRA | 4.54 | 338 | iPd | 25 | 16.90 | -1.0 | GMTN | 35.69 | 11 | iP | 31 | 08.60 | 0.7 | Z | 20s | 13.00um | | | 5.9Msz | |
| SDV | 12.33 | 75 | eP | 27 | 05.00 | -1.2 | PNJ | 35.72 | 11 | iP | 31 | 09.20 | 1.1 | | | ePP | 34 | 48.00 | | |
| TPX | 13.00 | 314 | iP | 27 | 16.00 | 1.0 | ALQ | 36.31 | 326 | iPc+ | 31 | 14.50 | 1.1 | | | eLR | 48 | 02.00 | | |
| TOV | 13.36 | 72 | iP | 27 | 17.60 | -2.2 | | 1.8s | 545.45nm | | | 6.1mb | | ORV | 48.42 | 320 | iPc | 32 | 52.70 | 0.9 |
| GCM | 13.41 | 5 | eP | 27 | 22.80 | 2.5 | | Z | 22s | 8.33um | | 5.5Msz | | STJ | 48.83 | 27 | eP | 32 | 55.50 | 0.7 |
| SCX | 14.54 | 319 | (P) | 27 | 43.00 | 7.8X | ANMO | 36.31 | 326 | iPc | 31 | 14.43 | 1.0 | MIN | 48.92 | 320 | ePc | 32 | 55.30 | -0.6 |
| CEOS | 14.58 | 77 | eP | 27 | 33.00 | -2.9 | | | | ePP | 32 | 31.68 | | WDC | 49.64 | 320 | ePc | 32 | 59.20 | -2.0 |
| MORO | 15.07 | 70 | eP | 27 | 40.00 | -2.3 | INY | 36.84 | 8 | iPc | 31 | 17.00 | -0.6 | SES | 50.33 | 337 | eP | 33 | 06.00 | -0.4 |
| GUAC | 15.87 | 73 | eP | 27 | 51.00 | -1.7 | | | | PP | 32 | 50.00 | | | 1.6s | 953.00nm | | | 6.5mb | |
| OLLA | 16.27 | 74 | eP | 27 | 54.00 | -3.8X | | | | ePPP | 33 | 05.00 | | | | pP | 33 | 17.00 | 38kmX | |
| CAR | 16.27 | 73 | iPc | 27 | 52.00 | -5.9X | | | | eS | 37 | 08.00 | | SCH | 50.47 | 12 | ePd | 33 | 06.30 | -1.1 |
| | | | iS | 30 | 52.00 | | | | | SS | 39 | 50.00 | | | 1.0s | 151.00nm | | | 5.9mb | |
| LLAV | 16.38 | 73 | eP | 27 | 56.00 | -3.2X | | | | LQ | 44 | 00.00 | | FHC | 50.69 | 320 | ePc | 33 | 09.70 | 0.4 |
| OXX | 17.68 | 310 | iPc | 28 | 20.00 | 4.3X | | | | LR | 47 | 00.00 | | FFC | 51.14 | 346 | eP | 33 | 11.00 | -1.4 |
| IISM | 19.36 | 314 | iPc | 28 | 38.50 | 2.3 | DLA | 36.86 | 1 | P | 31 | 16.60 | -1.1 | | 1.6s | 238.00nm | | | 5.9mb | |
| MGP | 19.44 | 50 | iPd | 28 | 36.80 | -0.3 | LDN | 37.05 | 2 | P | 31 | 18.25 | -1.0 | PNT | 53.33 | 331 | ePc | 33 | 29.00 | 0.0 |
| MCP | 19.67 | 49 | iPd | 28 | 39.80 | 0.0 | ELF | 37.20 | 2 | P | 31 | 19.55 | -1.0 | | 1.3s | 327.00nm | | | 6.1mb | |
| ACX | 20.05 | 304 | iPd | 28 | 46.00 | 2.3 | PTN | 39.14 | 9 | P | 31 | 36.80 | -0.1 | EDM | 53.44 | 338 | iPd | 33 | 28.00 | -1.7 |
| IIT | 20.06 | 312 | iPd | 28 | 47.50 | 3.4X | RSNY | 39.19 | 9 | P | 31 | 37.00 | -0.3 | | 1.0s | 577.00nm | | | 6.5mb | |
| SJG | 20.23 | 52 | iPd | 28 | 45.00 | -0.6 | | 1.0s | 75.00nm | | | 5.3mb | | GMW | 53.83 | 327 | P | 33 | 31.40 | -1.2 |
| III | 20.55 | 309 | iPc | 28 | 56.00 | 6.8X | | Z | 20s | 16.95um | | 5.9Msz | | PGC | 54.85 | 328 | eP | 33 | 40.00 | -0.1 |
| SMMM | 20.83 | 313 | iP | 28 | 55.25 | 3.5X | GOL | 39.40 | 332 | P | 31 | 40.00 | 0.6 | RKT | 58.62 | 239 | iP | 34 | 06.80 | -0.5 |
| UNM | 20.90 | 311 | iPd | 28 | 56.00 | 3.1X | | Z | 18s | 8.67um | | 5.6Msz | | | 1.2s | 115.00nm | | | 5.8mb | |
| IIC | 21.22 | 312 | iPc | 28 | 58.50 | 2.3 | BNH | 39.85 | 13 | P | 31 | 43.80 | 1.0 | FRB | 58.68 | 7 | eP | 34 | 04.00 | -3.1X |
| CRX | 21.32 | 311 | iPd | 29 | 01.00 | 3.8X | JACH | 40.02 | 164 | eP | 31 | 44.90 | 0.5 | | 1.1s | 159.00nm | | | 6.0mb | |
| TPP | 21.49 | 77 | eP | 28 | 58.42 | -0.1 | GAC | 40.18 | 8 | eP | 31 | 46.00 | 0.6 | YKC | 61.14 | 344 | iPd | 34 | 22.00 | -2.0 |
| TRN | 21.60 | 76 | eP | 28 | 56.87 | -2.8 | GLA | 40.30 | 316 | P | 31 | 48.00 | 1.3 | | 1.1s | 345.00nm | | | 6.4mb | |
| TBH | 21.89 | 76 | eP | 29 | 02.27 | -0.3 | PEL | 40.43 | 164 | iPc | 31 | 44.10 | -3.6X | YKA | 61.19 | 344 | P | 34 | 22.70 | -1.7 |
| SVB | 22.38 | 69 | eP | 29 | 06.07 | -1.4 | LCCB | 40.52 | 166 | eP | 31 | 47.50 | -0.9 | SIT | 65.49 | 331 | eP | 34 | 52.60 | -0.1 |
| SVV | 22.42 | 69 | eP | 29 | 10.09 | 2.2 | MDZ | 40.72 | 162 | e(P) | 31 | 47.70 | -2.4 | GDH | 66.15 | 11 | iPc | 34 | 55.00 | -1.8 |
| BSK | 22.52 | 58 | eP | 29 | 11.00 | 2.1 | SAN | 40.73 | 165 | eP | 31 | 47.50 | -2.6 | | 1.1s | 48.10nm | | | 5.6mb | |
| SKI | 22.60 | 58 | eP | 29 | 09.45 | -0.2 | PCH | 40.93 | 164 | eP | 31 | 50.50 | -1.3 | | | i | 51 | 25.00 | | |
| MGH | 22.77 | 60 | eP | 29 | 13.02 | 1.7 | EMM | 40.94 | 17 | P | 31 | 53.00 | 1.3 | RUV | 67.40 | 251 | iP | 35 | 06.40 | 0.7 |
| DSVT | 22.92 | 64 | eP | 29 | 13.63 | 0.9 | ITB1 | 40.98 | 139 | e(P) | 31 | 49.30 | -2.9 | | 1.2s | 90.00nm | | | 5.8mb | |
| BBL | 22.93 | 64 | eP | 29 | 13.00 | 0.1 | MIM | 40.99 | 15 | P | 31 | 53.00 | 0.9 | PMO | 67.84 | 251 | iP | 35 | 09.70 | 1.3 |
| DTMT | 22.93 | 64 | eP | 29 | 14.34 | 1.3 | LVN | 41.02 | 166 | eP | 31 | 48.50 | -3.9X | | 1.2s | 100.00nm | | | 5.9mb | |
| FDF | 22.94 | 66 | eP | 29 | 13.80 | 0.8 | BAR | 41.39 | 315 | eP | 31 | 56.00 | 0.4 | PAE | 70.01 | 249 | eP | 35 | 23.00 | 1.2 |
| | | | S | 33 | 34.00 | | TPC | 41.74 | 317 | eP | 32 | 00.00 | 1.5 | | 1.2s | 115.00nm | | | 5.9mb | |
| PAG | 22.95 | 62 | eP | 29 | 14.00 | 0.8 | PLM | 41.88 | 315 | P | 32 | 01.00 | 1.1 | INK | 70.86 | 342 | eP | 35 | 26.00 | -0.1 |
| MGG | 23.23 | 63 | eP | 29 | 16.00 | 0.2 | RVR | 42.59 | 316 | eP | 32 | 07.00 | 1.6 | | 1.2s | 369.00nm | | | 6.4mb | |
| SEG | 23.25 | 61 | eP | 29 | 17.00 | 1.0 | CBM | 42.80 | 15 | P | 32 | 08.00 | 1.1 | MBC | 73.17 | 351 | eP | 35 | 38.00 | -1.7 |
| SFG | 23.46 | 62 | eP | 29 | 16.00 | -2.1 | GSC | 42.94 | 318 | eP | 32 | 10.00 | 1.7 | | 1.4s | 437.00nm | | | 6.3mb | |
| CPB | 23.51 | 58 | eP | 29 | 17.91 | -0.6 | MWC | 43.19 | 316 | eP | 32 | 11.00 | 0.4 | LIS | 73.52 | 51 | iPc | 35 | 43.20 | 0.7 |
| DEG | 23.61 | 62 | eP | 29 | 19.00 | -0.6 | PAS | 43.23 | 315 | eP | 32 | 11.00 | 0.4 | PTO | 74.19 | 49 | eP | 35 | 44.90 | -1.4 |
| ARE | 24.80 | 154 | eP | 29 | 29.00 | -2.4 | | | | ePP | 33 | 56.00 | | HON | 74.22 | 290 | P | 35 | 50.00 | 3.2X |
| ZOBO | 26.30 | 147 | P | 29 | 41.80 | -4.0X | | | | ePPP | 34 | 53.00 | | | Z | 22s | 12.22um | | | 6.1Msz |
| | | | LR | 37 | 41.00 | | | | | eS | 38 | 37.00 | | OPA | 74.23 | 291 | P | 35 | 50.00 | 3.2X |
| LPB | 26.53 | 147 | Pc | 29 | 44.80 | -2.9 | | | | eSS | 42 | 19.00 | | FBA | 74.31 | 336 | eP | 35 | 45.80 | -0.8 |
| | 2.0s | 2352.94nm | | | 6.5mb | | | | eLR | 45 | 14.00 | | KDC | 74.34 | 328 | eP | 35 | 46.80 | 0.0 | |
| Z | 18s | 79.04um | | | 6.3Msz | | SBB | 43.28 | 316 | eP | 32 | 12.00 | 0.9 | STS | 74.42 | 47 | e(P) | 35 | 48.30 | 0.7 |
| | | | S | 34 | 24.00 | | CLC | 43.76 | 318 | eP | 32 | 16.00 | 1.0 | AVE | 74.51 | 57 | eP | 35 | 48.00 | -0.3 |
| | | | LR | 37 | 20.00 | | BW06 | 43.77 | 331 | P | 32 | 15.00 | -0.2 | | | i | 36 | 06.50 | | |
| CNCB | 26.82 | 147 | Pc | 29 | 46.30 | -4.2X | TNP | 44.83 | 321 | P | 32 | 24.30 | 0.5 | TIO | 74.52 | 60 | iP | 35 | 48.50 | -0.1 |
| PRM | 28.08 | 1 | P | 30 | 01.30 | 0.0 | MNA | 45.64 | 320 | ePc | 32 | 31.20 | 1.1 | EVAL | 75.32 | 53 | e(P) | 35 | 52.50 | -0.4 |
| JSC | 28.31 | 3 | P | 30 | 03.40 | 0.1 | FRI | 45.83 | 318 | ePc | 32 | 30.80 | -0.6 | EMON | 75.37 | 47 | e(P) | 35 | 53.50 | 0.4 |
| LHS | 28.53 | 3 | P | 30 | 04.50 | -0.8 | KVN | 45.97 | 321 | P | 32 | 32.70 | -0.1 | ERUA | 75.40 | 48 | e(P) | 35 | 54.00 | 0.7 |
| MZX | 28.63 | 309 | iPc | 30 | 07.50 | 1.2 | PRI | 46.02 | 316 | iPc | 32 | 33.70 | 0.6 | EPLA | 76.01 | 50 | e(P) | 35 | 56.00 | -0.9 |
| PWLA | 29.40 | 351 | P | 30 | 11.70 | -1.4 | LLA | 46.46 | 317 | ePc | 32 | 36.40 | -0.1 | IFR | 76.43 | 57 | iPd | 35 | 59.00 | -0.5 |
| TKL | 29.67 | 358 | P | 30 | 14.80 | -0.7 | PRS | 46.61 | 316 | iPc | 32 | 38.20 | 0.6 | EPRU | 76.49 | 54 | e(P) | 36 | 00.70 | 1.1 |
| RSCP | 29.71 | 355 | P | 30 | 15.00 | -1.0 | CMB | 46.85 | 319 | iPc | 32 | 39.36 | -0.2 | EHOR | 76.52 | 53 | e(P) | 35 | 59.40 | -0.3 |
| | 1.0s | 215.00nm | | | 5.9mb | | | | ePP | 34 | 29.72 | | DCN | 76.62 | 37 | eP | 36 | 01.70 | 1.8 | |
| OLY | 30.58 | 346 | P | 30 | 22.00 | -1.7 | | | iS | 39 | 35.42 | | | 0.9s | 106.00nm | | | 5.9mb | | |
| BLA | 31.27 | 4 | P | 30 | 29.40 | -0.3 | SAO | 46.88 | 316 | ePc | 32 | 41.30 | 1.5 | SVW | 76.67 | 332 | eP | 35 | 59.00 | -1.1 |
| | 1.0s | 450.00nm | | | 6.3mb | | BMA | 47.18 | 128 | e(P) | 32 | 42.00 | -0.4 | DMU | 76.92 | 36 | eP | 36 | 01.90 | 0.3 |
| NAV | 31.36 | 3 | P | 30 | 30.00 | -0.5 | ARN | 47.25 | 317 | P | 32 | 43.30 | 0.6 | | 1.0s | 123.00nm | | | 5.9mb | |
| ATB | 31.76 | 106 | e(P) | 30 | 28.70 | -5.5X | MHC | 47.32 | 317 | ePc | 32 | 44.60 | 1.2 | IMA | 77.00 | 337 | ePc | 36 | 01.40 | -0.6 |
| CVL | 32.20 | 6 | P | 30 | 37.40 | -0.4 | | | eS | 39 | 46.00 | | | 1.5s | 131.90nm | | | 5.8mb | | |

04d 19h

| | | | | | | | | | | | | | | |
|------|-------|----------|----------|-------|-------|--------|----------|----------|--------|--------|----------|----------|----------|--------|
| | 0.8s | 50.00nm | 5.6mb | CDF | 85.64 | 42 P | 36 47.86 | 0.1 | LCI | 94.31 | 49 P | 37 30.00 | 1.5 | |
| ATEJ | 77.46 | 54 eP | 36 05.50 | 0.4 | CALN | 85.69 | 47 P | 36 48.82 | 0.7 | SPA | 95.82 | 180 e(P) | 37 32.80 | -2.4 |
| GUD | 77.51 | 50 e(P) | 36 04.70 | -0.7 | LSD | 85.76 | 45 P | 36 49.73 | 1.1 | | 1.0s | 7.00nm | 5.1mb | |
| TOL | 77.56 | 51 iPd | 36 06.50 | 1.1 | PZZ | 85.79 | 46 P | 36 50.04 | 1.4 | Z | 20s | 3.24um | 5.8MsZ | |
| | 1.8s | 636.36nm | 6.4mb | GWF | 85.83 | 41 P | 36 48.24 | -0.3 | SKO | | | 37 53.10 | | |
| | | eS | 45 50.00 | RSP | 85.86 | 45 P | 36 50.55 | 1.7 | | 96.52 | 47 iP | 37 39.70 | 1.0 | |
| | | eSS | 50 35.00 | BBS | 85.87 | 43 P | 36 48.62 | -0.2 | Z | 19s | 1.43um | 5.5MsZ | | |
| ACHM | 77.61 | 53 eP | 36 06.50 | 0.6 | MVIF | 85.87 | 46 P | 36 49.43 | 0.4 | E | 20s | 1.80um | | |
| ASMO | 77.69 | 53 eP | 36 06.50 | 0.1 | DOI | 85.89 | 46 Pc | 36 50.70 | 1.6 | | | iPP | 38 34.00 | |
| APHE | 77.72 | 54 eP | 36 07.00 | 0.4 | DIX | 85.90 | 44 ePc | 36 49.00 | -0.3 | | | iPS | 50 26.00 | |
| CRT | 77.80 | 53 eP | 36 08.00 | 1.1 | TOUF | 85.93 | 46 P | 36 49.88 | 0.5 | | | iSS | 55 35.00 | |
| TAF | 78.71 | 56 iPd | 36 10.00 | -1.9 | STV | 85.97 | 46 P | 36 50.14 | 0.7 | | | iSSS | 59 26.00 | |
| ETOR | 79.11 | 50 e(P) | 36 15.00 | 0.9 | AURF | 86.00 | 46 P | 36 49.82 | 0.2 | | | LR | 15 54.00 | |
| EKA | 79.25 | 35 P | 36 14.00 | -0.4 | AUTN | 86.06 | 46 P | 36 48.43 | -1.7 | VAY | 97.50 | 47 eP | 37 46.00 | 2.9X |
| | 1.2s | 73.70nm | 5.6mb | SBF | 86.08 | 46 eP | 36 50.40 | 0.5 | BNG | 100.70 | 84 ePd | 38 10.10 | 11.9X | |
| BRW | 79.39 | 342 eP | 36 14.70 | -0.1 | | 1.8s | 155.30nm | 5.9mb | | 0.9s | 9.00nm | | | |
| EALH | 79.55 | 53 e(P) | 36 17.30 | 0.9 | SAOF | 86.16 | 46 P | 36 50.58 | 0.3 | | | ic | 41 07.30 | |
| LPF | 80.09 | 42 eP | 36 19.60 | 0.6 | FEL | 86.17 | 42 P | 36 50.49 | 0.1 | MDJ | 121.98 | 333 ePKP | 43 03.00 | -0.8 |
| | 1.5s | 114.90nm | 5.6mb | TNS | 86.27 | 40 ePc | 36 52.10 | 1.3 | | Z | 28s | 2.50um | 5.7MsZ | |
| GRR | 80.23 | 42 eP | 36 20.20 | 0.5 | MMK | 86.28 | 44 ePc | 36 51.60 | 0.4 | | | ePP | 44 40.00 | |
| | 1.6s | 228.80nm | 5.9mb | ORO | 86.33 | 45 P | 36 52.00 | 0.8 | CN2 | 124.42 | 336 ePKP | 43 07.00 | -1.6 | |
| FLN | 80.49 | 42 eP | 36 21.90 | 0.8 | ORX | 86.33 | 45 P | 36 51.48 | 0.3 | | Z | 20s | 3.00um | 6.0MsZ |
| | 1.6s | 223.80nm | 5.9mb | ROB | 86.36 | 46 P | 36 51.48 | 0.2 | | N | 18s | 1.20um | | |
| MFF | 80.65 | 44 eP | 36 22.60 | 0.5 | IMI | 86.40 | 46 P | 36 51.78 | 0.2 | | | ePP | 44 49.00 | |
| | 1.6s | 92.00nm | 5.5mb | ZLA | 86.46 | 43 ePc | 36 51.10 | -0.6 | MHI | 125.11 | 37 ePKP | 43 10.00 | -0.3 | |
| LDF | 80.72 | 42 eP | 36 23.00 | 0.6 | SLE | 86.51 | 43 ePc | 36 51.40 | -0.5 | SNY | 126.82 | 336 ePKP | 43 12.00 | -1.3 |
| | 1.6s | 211.40nm | 5.9mb | FIN | 86.61 | 46 P | 36 51.78 | -0.7 | | Z | 20s | 3.20um | 6.0MsZ | |
| EPF | 80.94 | 47 eP | 36 24.80 | 1.0 | CKI | 86.64 | 46 P | 36 53.00 | 0.4 | | N | 22s | 3.20um | |
| | 1.8s | 215.70nm | 5.9mb | NAO | 86.65 | 29 P | 36 52.40 | 0.1 | | E | 21s | 2.00um | | |
| EROQ | 80.98 | 50 e(P) | 36 25.00 | 1.1 | | 1.1s | 54.90nm | 5.7mb | | | | PP | 45 11.00 | |
| LFF | 81.25 | 46 eP | 36 26.00 | 0.8 | VAI | 86.86 | 44 Pc | 36 54.80 | 1.2 | WMQ | 129.79 | 9 ePKP | 43 18.50 | -0.5 |
| | 1.8s | 258.90nm | 6.0mb | TMA | 86.91 | 44 ePc | 36 53.60 | -0.5 | | Z | 28s | 5.00um | 6.1MsZ | |
| LPO | 81.56 | 46 eP | 36 27.50 | 0.6 | LLS | 86.93 | 43 ePc | 36 54.50 | 0.3 | | | PP | 45 26.00 | |
| | 1.7s | 152.90nm | 5.8mb | SAX | 87.13 | 43 ePc | 36 55.20 | -0.1 | KSH | 130.79 | 22 PKP | 43 21.30 | 0.2 | |
| KUK | 81.78 | 85 eP | 36 26.50 | -2.1 | CVF | 87.23 | 48 P | 36 55.95 | 0.4 | BJI | 131.12 | 341 PKP | 43 20.00 | -1.5 |
| RJF | 81.80 | 45 eP | 36 29.00 | 0.9 | VDL | 87.29 | 44 ePc | 36 56.10 | 0.1 | | Z | 20s | 2.70um | 5.9MsZ |
| | 1.6s | 111.90nm | 5.7mb | BOB | 87.44 | 45 P | 36 57.00 | 0.4 | | N | 20s | 3.60um | | |
| LSF | 81.81 | 44 eP | 36 28.70 | 0.6 | MDI | 87.52 | 44 P | 36 57.00 | 0.2 | | | PP | 45 35.00 | |
| | 1.6s | 99.50nm | 5.6mb | OSS | 87.73 | 43 ePc | 36 58.00 | 0.0 | | | PKS | 46 46.00 | | |
| KOGH | 81.92 | 85 eP | 36 26.00 | -3.4X | GRF | 88.11 | 40 eP | 37 00.80 | 1.2 | | | SS | 03 09.00 | |
| LEGH | 82.02 | 85 eP | 36 28.50 | -1.3 | | 1.2s | 75.00nm | 5.9mb | HHC | 131.71 | 346 ePKP | 43 22.90 | 0.1 | |
| SHGH | 82.13 | 85 eP | 36 30.00 | -0.4 | | Z | 22s | 7.40um | | Z | 22s | 3.80um | 6.1MsZ | |
| CAF | 82.19 | 46 eP | 36 30.70 | 0.5 | SAL | 88.11 | 45 P | 37 07.20 | 7.6X | BTO | 132.31 | 347 ePKP | 43 23.50 | -0.5 |
| | 1.7s | 127.90nm | 5.8mb | MOX | 88.25 | 39 eP | 37 01.00 | 0.8 | QUE | 133.83 | 37 ePKP | 43 26.00 | -1.3 | |
| TCF | 82.28 | 44 eP | 36 30.90 | 0.3 | | 2.0s | 118.00nm | 5.9mb | TIA | 134.20 | 338 ePKP | 43 26.50 | -1.1 | |
| | 1.6s | 58.40nm | 5.5mb | | | | eS | 47 50.00 | | Z | 45s | 3.60um | 5.7MsZ | |
| MAF | 82.53 | 44 eP | 36 32.20 | 0.3 | | | ePS | 48 45.00 | | N | 16s | 1.50um | | |
| | 1.6s | 111.90nm | 5.8mb | | | | eSS | 53 40.00 | | | | ePP | 45 57.00 | |
| BGF | 82.72 | 44 eP | 36 33.20 | 0.3 | | | eLQ | 00 00.00 | | TIY | 134.41 | 343 ePKP | 43 24.60 | -3.4X |
| | 1.8s | 172.60nm | 5.9mb | | | | eLR | 05 25.00 | | | N | 23s | 6.90um | |
| ESEL | 82.90 | 51 e(P) | 36 35.50 | 1.6 | OGA | 88.31 | 43 eP | 37 02.80 | 1.9 | | | PP | 45 57.50 | |
| AVF | 83.06 | 44 eP | 36 34.70 | 0.1 | FUR | 88.33 | 42 eP | 37 02.50 | 1.8 | | | PKS | 47 03.00 | |
| | 1.6s | 52.20nm | 5.5mb | BDI | 88.33 | 46 P | 37 02.20 | 1.3 | GTA | 134.90 | 357 PKP | 43 27.50 | -1.5 | |
| SSF | 83.16 | 43 eP | 36 35.00 | -0.1 | FIR | 88.84 | 46 eP | 37 06.00 | 2.8X | | Z | 21s | 2.60um | 5.9MsZ |
| | 1.6s | 74.60nm | 5.6mb | MAO | 88.93 | 48 P | 37 07.70 | 4.0X | | E | 22s | 3.40um | | |
| LOR | 83.40 | 43 eP | 36 36.80 | 0.4 | CLL | 89.03 | 39 iP | 37 05.20 | 1.3 | | | PP | 45 57.00 | |
| | 2.0s | 116.60nm | 5.7mb | | | 1.7s | 81.00nm | 5.7mb | SSE | 136.74 | 330 ePKP | 43 32.20 | -0.3 | |
| SMF | 83.40 | 44 eP | 36 36.60 | 0.2 | PGD | 89.16 | 46 P | 37 05.00 | 0.0 | | 1.2s | 34.00nm | | |
| | 1.6s | 64.60nm | 5.6mb | BHG | 89.45 | 42 eP | 37 07.50 | 1.5 | | Z | 26s | 9.40um | 6.4MsZ | |
| LBF | 83.48 | 43 eP | 36 36.70 | -0.2 | | 1.5s | 71.00nm | 5.7mb | | E | 16s | 3.40um | | |
| | 1.8s | 89.70nm | 5.7mb | FVI | 89.54 | 43 Pc | 37 07.70 | 1.3 | | | | sPKP | 43 48.00 | |
| SNF | 83.60 | 40 Pc | 36 38.40 | 1.2 | KHC | 89.71 | 41 iPd | 37 08.70 | 1.4 | | | ePP | 46 11.00 | |
| DOU | 83.81 | 40 Pc | 36 39.40 | 1.1 | | 1.3s | 20.00nm | 5.2mb | | | | PKS | 47 06.00 | |
| ENN | 84.63 | 40 eP | 36 43.00 | 0.6 | | | e | 38 03.90 | | | | i | 58 35.00 | |
| | 1.2s | 80.00nm | 5.8mb | KBA | 89.86 | 43 eP | 37 09.00 | 0.8 | | | SS | 04 23.00 | | |
| MEM | 84.69 | 40 Pc | 36 44.20 | 1.5 | | 1.5s | 44.60nm | 5.5mb | LZH | 137.82 | 352 ePKP | 43 34.00 | -0.7 | |
| VITF | 84.79 | 42 P | 36 42.76 | -0.5 | MNS | 90.05 | 48 P | 37 11.50 | 2.5 | | 1.0s | 37.00nm | | |
| WLF | 84.83 | 41 P | 36 43.20 | -0.2 | RBL | 90.10 | 43 P | 37 09.90 | 0.7 | XAN | 138.82 | 345 PKP | 43 36.00 | -0.4 |
| WIT | 84.99 | 38 eP | 36 46.00 | 1.8 | VOY | 90.39 | 44 eP | 37 11.60 | 1.1 | | N | 18s | 2.70um | |
| HAU | 85.05 | 42 eP | 36 45.10 | 0.4 | CEY | 90.80 | 44 eP | 37 14.40 | 2.0 | | | PP | 46 26.00 | |
| | 1.7s | 132.30nm | 5.9mb | LJU | 90.83 | 44 eP | 37 14.50 | 2.1 | WHN | 140.29 | 337 ePKP | 43 31.50 | -7.5X | |
| WTS | 85.12 | 38 eP | 36 46.00 | 1.2 | SDI | 90.99 | 48 P | 37 14.40 | 1.1 | | Z | 20s | 2.80um | 6.0MsZ |
| | 1.0s | 106.00nm | 6.0mb | KSP | 91.15 | 39 eP | 37 14.80 | 1.0 | | N | 20s | 2.07um | | |
| KBS | 85.18 | 11 iP | 36 45.50 | 0.8 | FAI | 91.54 | 52 P | 37 18.70 | 2.8X | | E | 18s | 1.52um | |
| LRG | 85.33 | 47 eP | 36 47.00 | 0.9 | VKA | 91.64 | 41 e(P) | 37 17.00 | 0.9 | | | ePP | 46 32.00 | |
| | 1.6s | 124.30nm | 5.9mb | | | | e | 37 29.50 | | ASPA | 140.61 | 239 ePKP | 43 32.80 | -7.1X |
| BSF | 85.36 | 43 P | 36 44.86 | -1.5 | ZST | 92.17 | 41 eP | 37 19.70 | 1.1 | WB5 | 141.39 | 245 ePKP | 43 35.90 | -5.4X |
| LOMF | 85.41 | 43 P | 36 44.49 | -2.1 | MGR | 92.54 | 49 P | 37 20.80 | 0.4 | WRA | 141.40 | 245 PKPc | 43 35.80 | -5.5X |
| BNS | 85.41 | 39 iPc | 36 47.20 | 0.8 | SRO | 93.04 | 41 eP | 37 24.50 | 1.9 | | 1.2s | 10.00nm | | |
| LMR | 85.44 | 47 eP | 36 47.50 | 0.8 | | | e | 41 05.10 | | CD2 | 142.92 | 351 ePKP | 43 38.80 | -5.0X |
| | 1.8s | 138.10nm | 5.9mb | SUF | 93.33 | 26 eP | 37 24.00 | 0.4 | GKN | 144.18 | 19 PKP | 43 42.40 | -3.7X | |
| BNI | 85.45 | 45 P | 36 48.00 | 1.1 | KJF | 93.48 | 24 eP | 37 24.00 | -0.2 | KKN | 144.59 | 19 PKP | 43 44.00 | -2.9X |
| LPG | 85.48 | 45 eP | 36 48.50 | 1.3 | KRA | 93.60 | 39 eP | 37 26.20 | 1.1 | GUN | 144.66 | 18 PKP | 43 45.00 | -2.2X |
| | 1.7s | 113.20nm | 5.8mb | | | 1.1s | 43.00nm | 5.8mb | DMN | 144.70 | 19 PKP | 43 44.70 | -2.5X | |
| RRL | 85.54 | 45 P | 36 48.30 | 0.8 | | Z | 20s | 5.60um | 6.0MsZ | PKI | 144.83 | | | |

MTN 145.94 256 ePKP 43 47.00 -2.2X
 POO 146.50 43 iPKPd 43 54.80 4.7X
 COOL 146.53 219 ePKP 43 48.50 -1.3
 GYA 146.61 345 PKP 43 49.80 -0.4
 GZH 147.23 332 PKP 43 52.00 0.9
 NWA0 147.30 212 ePKP 43 54.00 3.1X
 KNA 147.62 250 ePKP 43 53.00 1.2
 BAG 148.06 314 ePKP 43 40.00 -12.8X
 MUN 148.58 212 ePKP 43 54.00 1.0
 KMI 148.75 350 ePKP 43 52.00 -1.8

Z 20s 2.80um 6.1msz

sPKP 44 06.00
 PP 46 20.00
 SKKS 53 02.00
 QCP 148.85 311 ePKP 43 56.00 2.2X
 DAV 149.00 294 ePKP 43 58.30 4.1X
 HYB 150.37 38 ePKP 43 56.00 -0.2
 QIZ 152.35 334 ePKP 44 05.80 6.8X

E 23s 3.90um

PP 47 44.00
 SKS 51 07.00
 GBA 152.38 45 PKP 44 00.20 1.1
 KOD 154.58 51 ePKP 44 04.00 1.4
 CHG 155.43 356 ePKP 44 03.00 -0.2
 LOE 156.47 349 ePKP 44 05.00 0.3
 BDT 156.98 356 ePKP 44 05.00 -0.3
 SNG 166.63 346 ePKP 44 14.80 -0.3

S.D. = 1.2 on 318 of 365 obs.

* FEB 04, 1989 20h 00m 55.60±3.72s
 45.115 N ±10.1km 6.512 E ±27.9km
 DEPTH = 10.0km (geophysicist)

FRANCE (538)

ML 2.4 (GEN).

BNI 0.13 118 P 00 58.00 -0.9
 Sg 01 01.50
 RRL 0.27 135 P 01 01.69 0.2
 S 01 05.95
 RSP 0.53 86 P 01 06.52 0.2
 S 01 13.58
 LSD 0.57 53 P 01 07.48 0.1
 S 01 15.17
 PZZ 0.74 145 P 01 10.03 -0.2
 S 01 20.17
 STV 1.05 146 P 01 15.92 0.5
 S 01 29.22

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

FEB 04, 1989 20h 26m 46.36±0.60s
 5.548 S ±5.6km 147.238 E ±5.5km
 DEPTH = 182.3 ± 6.3 km
 5.1mb (10 obs.)

EAST PAPUA NEW GUINEA REGION (207)

LAT 1.12 192 eP 27 15.00 -0.5
 MNDI 3.61 260 eP 27 44.00 0.6
 PMG 3.84 181 iPc 27 45.50 -0.5
 0.7s 105.48nm
 TZZ 6.00 272 eP 27 26.00 -48.2X
 S 28 32.00
 VSG 12.91 107 eP 29 45.00 0.6
 HNR 13.18 108 eP 29 48.00 0.2
 OIS 16.66 206 iPc 30 31.00 0.1
 S 33 30.00

MTN 17.47 244 iPd 30 39.60 -0.8
 WB5 18.97 220 iPd 30 56.20 0.0
 WRA 19.03 220 Pc 30 57.30 0.4
 0.5s 72.20nm 5.4mb
 KNA 20.77 239 eP 31 14.00 -0.5
 ASPA 22.12 214 iPd 31 29.00 1.3
 0.6s 192.00nm 5.8mb
 S 35 22.20
 BRS 22.35 167 eP 31 29.00 -0.9
 DZM 24.80 133 iPc 31 53.00 -0.3
 WARB 28.43 222 iPd 32 21.40 -4.8X
 0.5s 30.00nm 5.3mb
 FORR 30.94 213 iPd 32 48.70 0.6
 0.4s 24.00nm 5.3mb

MEKA 34.47 229 eP 33 19.30 0.5
 0.4s 27.00nm 5.3mb
 NANU 34.98 238 iPd 33 23.30 0.2
 0.4s 10.00nm 4.8mb
 COOL 35.16 221 iPd 33 25.00 0.4
 MRWA 37.76 228 eP 33 47.00 0.6

QZH 41.17 319 eP 34 15.00 0.5
 SSE 44.13 327 eP 34 39.30 0.9
 WHN 47.73 321 eP 35 07.50 0.7
 TIY 53.86 326 eP 35 52.80 -0.1
 HHC 56.58 328 eP 36 12.80 0.4
 LZH 58.02 319 eP 36 23.00 0.3

1.0s 37.00nm 5.1mb

Z 24s 2.90um 5.3mszX

GTA 62.55 320 iPc 36 54.00 0.8
 GUN 67.82 303 P 37 26.90 -0.6

0.6s 13.00nm 4.9mb

PKI 68.10 302 P 37 26.80 -2.4

KKN 68.28 303 P 37 29.20 -1.0

DMN 68.37 302 P 37 30.20 -0.5

0.6s 7.00nm 4.6mb

GKN 68.89 303 P 37 33.00 -0.8

0.6s 8.00nm 4.7mb

S.D. = 0.8 on 30 of 32 obs.

? FEB 04, 1989 21h 35m 57.96±10.25s

44.437 N ±62.5km 7.316 E ±20.3km

DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)

MD 1.8 (STR).

TOUF 0.43 187 Pg 36 06.52 -0.2

AUTN 0.45 170 Pg 36 07.28 0.1

Sg 36 12.22

SAOF 0.48 159 Pg 36 07.89 0.1

AURF 0.55 179 Pg 36 08.58 -0.5

MVIF 0.55 192 Pg 36 10.04 0.7

CALN 0.75 204 Pg 36 12.65 -0.1

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

FEB 04, 1989 21h 37m 59.38±0.27s

44.392 N ±2.8km 7.326 E ±2.9km

DEPTH = 17.5 ± 4.0 km

NORTHERN ITALY (545)

ML 3.3 (GEN), 3.2 (LDG).

DOI 0.13 333 Pd 38 03.20 -0.2

eSg 38 06.50

STV 0.15 180 Pd 38 03.02 -0.7

PZZ 0.20 305 Pd 38 03.79 -0.7

ROB 0.40 104 Pc 38 08.33 0.6

FOUF 0.41 290 P 38 06.85 -1.0

SBF 0.53 171 Pg 38 10.20 0.2

IMI 0.63 140 Pc 38 11.66 0.1

S 38 20.10

RRL 0.65 324 P 38 11.77 -0.4

S 38 20.10

FIN 0.66 106 Pc 38 12.61 0.5

S 38 21.54

CKI 0.68 87 P 38 13.10 0.6

eSg 38 23.10

RSP 0.76 356 Pc 38 12.79 -1.1

S 38 21.76

BNI 0.81 325 P 38 14.40 -0.3

eSg 38 23.30

FRF 0.96 211 Pg 38 16.90 -0.4

Sg 38 28.20

LSD 1.07 354 P 38 18.30 -1.0

S 38 30.96

LRG 1.17 217 Pg 38 20.50 -0.2

Sg 38 34.20

S 38 36.30

LPG 1.18 340 Pn 38 21.30 0.2

Pg 38 21.60

LPL 1.20 340 Pn 38 21.60 0.2

Sg 38 37.40

LMR 1.21 209 Pn 38 21.20 -0.2

Pg 38 21.50

Sg 38 35.50

ORO 1.32 20 P 38 21.60 -1.4

iSg 38 38.20

ORX 1.32 20 P 38 21.33 -1.8

S 38 36.28

BOB 1.56 75 P 38 28.40 1.9

eSn 38 46.70

VAI 1.79 34 P 38 29.50 -0.2

Pn 38 33.30 -1.6

Sn 38 58.30

PII 2.40 105 P 38 39.20 0.7

SMF 3.33 314 Pn 38 52.50 0.8

Sn 39 31.50

BSF 3.46 354 Pn 38 54.00 0.4

Sn 39 32.30

LBF 3.50 319 Pn 38 55.00 0.9

Sn 39 33.20

Sg 39 50.30

HAU 3.68 350 Pn 38 56.70 0.0

Sn 39 38.40

AVF 3.68 312 Pn 38 57.80 1.1

Sn 39 39.80

LOR 3.76 321 Pn 38 58.60 0.8

Sn 39 40.90

SSF 3.78 316 Pn 38 58.80 0.7

Sn 39 41.70

CAF 3.79 280 Pn 38 58.10 -0.2

Sn 39 40.60

BGF 3.82 306 Pn 38 59.10 0.4

Sn 39 41.70

Sg 40 01.00

MAF 3.82 300 Pn 38 59.60 0.9

CDF 4.02 360 Pn 39 02.50 1.0

Sn 39 47.00

TCF 4.07 300 Pn 39 02.60 0.3

Sn 39 47.80

LPO 4.40 276 Pn 39 06.60 -0.2

Sn 39 53.00

FVI 4.42 58 P 39 05.60 -1.5

LSF 4.49 296 Pn 39 08.70 0.5

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

FEB 04, 1989 22h 10m 38.90±0.10s

4.625 S ±2.5km 153.066 E ±2.8km

DEPTH = 52.2km (geophysicist)

6.1mb (48 obs.)

NEW IRELAND REGION (190)

Felt (V) at Rabaul, New Britain.

Depth from broadband

displacement seismograms.

FAULT PLANE SOLUTION: P-Waves

NP1:Strike=114 Dip=54 Slip= 90

NP2: 294 36 90

Principal Axes:

T Plg=81 Azm= 24

P 9 204

Comment: The focal mechanism is

poorly controlled and

corresponds to reverse

faulting. The preferred fault

plane is NP2.

RADIATED ENERGY

No. of sta: 6 Focal mech. M

Energy 3.3±1.2*10**13 Nm

MOMENT TENSOR SOLUTION

Dep 45 No. of sta: 9

Moment Tensor; Scale 10**18 Nm

Mrr= 1.54 Mtt=-2.03

Mff= 0.49 Mrt= 0.94

Mrf= 0.97 Mtf= 0.60

Principal axes:

T Vol= 2.40 Plg=56 Azm=296

N -0.09 31 91

P -2.32 12 188

Best Double Couple:Mo=2.4*10**18

NP1:Strike=311 Dip=43 Slip= 139

NP2: 73 64 55

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 13S, 34C M.W.: 13S, 22C

Centroid Location:

Origin Time 22:10:44.2 0.3

Lat 4.96S 0.02 Lon 152.90E 0.02

Dep 55.1 1.5 Half-duration 4.6

Moment Tensor; Scale 10**18 Nm

Mrr= 1.90 0.04 Mtt=-1.99 0.06

Mff= 0.09 0.06 Mrt= 1.32 0.06

Mrf= 0.31 0.05 Mtf= 0.02 0.04

Principal Axes:

T Vol= 2.35 Plg=71 Azm=335

N 0.05 7 86

P -2.40 17 178

Best Double Couple:Mo=2.4*10**18

NP1:Strike=279 Dip=28 Slip= 104

NP2: 82 63 82

RAB 0.99 296 iPc 11 00.60 3.9

0.5s 236.62nm

LAT 6.36 251 eP 12 14.00 1.6

LMG 6.48 229 iPd 12 12.50 -1.6

PMG 7.55 231 eP 12 29.00 0.0

1.0s 490.00nm 6.2mb

| | | | | | | | | | | | | | | | | | | | | |
|------|-------|-----|----------|-----|---------|---------|------|--------|----------|--------|--------|--------|--------|--------|---------|----------|--------|--------|-------|-------|
| CHTO | 58.15 | 295 | eS | 29 | 06.00 | | YKU | 82.66 | 28 | eP | 22 | 59.80 | 1.9 | KFNJ | 115.61 | 303 | PKP | 29 | 18.00 | 0.5 |
| | | | iPc | 20 | 30.04 | -0.1 | KSH | 83.00 | 311 | iPc | 23 | 03.00 | 2.7 | JVI | 115.87 | 303 | ePKP | 29 | 18.00 | 0.0 |
| | | | ePpd | 20 | 44.61 | 54kmX | | 4.0s | 6.30nm | | 4.0mb | X | B8TK | 116.00 | 312 | iPKPd | 29 | 18.40 | 0.2 | |
| | | | esPd | 20 | 50.24 | | E | 16s | 5.90um | | | NAI | 116.05 | 266 | iPKPd | 29 | 21.00 | 1.8X | | |
| CD2 | 58.83 | 310 | iPc | 20 | 35.00 | 0.3 | | | pP | 23 | 20.00 | 61kmX | | | | | | | | |
| | | | Z | 27s | 9.60um | 5.8MszX | SIT | 83.99 | 31 | ePc | 23 | 04.90 | 0.2 | IKL | 116.26 | 308 | ePKP | 29 | 18.00 | -0.6 |
| | | | N | 14s | 2.80um | | SPA | 85.41 | 180 | e(P) | 23 | 12.20 | 0.3 | HFS | 116.61 | 339 | ePdiff | 25 | 31.10 | -2.4X |
| | | | S | 28 | 35.00 | | | 1.0s | 104.50nm | | 5.9mb | | | 0.5s | 1.80nm | | | | | |
| PMO | 58.92 | 105 | iP | 20 | 35.60 | 0.1 | Z | 20s | 2.88um | | 5.7Msz | | HFS | 116.61 | 339 | ePKP | 29 | 18.50 | -0.1 | |
| | 0.8s | | 50.00nm | | 5.7mb | | | | e | 23 | 23.90 | | | 0.7s | 24.30nm | | | | | |
| HHC | 59.06 | 324 | iPc | 20 | 36.60 | 0.4 | MAW | 85.83 | 203 | eP | 23 | 13.50 | -0.3 | Z | 20s | 3.20um | | 5.9Msz | | |
| | 5.5s | | 2.30nm | | 3.5mb | X | INK | 88.20 | 21 | iP | 23 | 24.80 | -0.4 | | | LR | 11 | 15.00 | | |
| | Z | 30s | 15.80um | | 6.0MszX | | | 1.1s | 305.00nm | | 6.5mb | | LFK | 116.62 | 307 | ePKP | 29 | 19.50 | 0.0 | |
| | N | 14s | 1.90um | | | | | | pP | 23 | 46.00 | 77kmX | MBH | 116.67 | 301 | iPKPc | 29 | 20.00 | 0.4 | |
| | | | S | 28 | 38.00 | | WDC | 88.72 | 49 | eP | 23 | 27.80 | -0.5 | CSS | 116.86 | 307 | ePKP | 29 | 20.50 | 0.6 |
| TPT | 59.19 | 105 | iP | 20 | 37.60 | 0.2 | | | e | 27 | 00.10 | | NAO | 117.12 | 340 | Pdiff | 25 | 34.60 | -1.2 | |
| | 0.8s | | 45.00nm | | 5.7mb | | QUE | 88.95 | 300 | iPc+ | 23 | 30.30 | 0.4 | | 0.9s | 9.90nm | | | | |
| VAH | 59.20 | 105 | iP | 20 | 37.20 | -0.2 | | | eS | 34 | 26.00 | | NAO | 117.12 | 340 | PKP | 29 | 19.20 | -0.3 | |
| | 0.8s | | 45.00nm | | 5.7mb | | LBFM | 89.30 | 49 | P | 23 | 36.60 | 5.3X | | 0.7s | 33.90nm | | | | |
| RUV | 59.43 | 105 | iP | 20 | 39.00 | 0.0 | GMW | 89.43 | 42 | P | 23 | 29.30 | -2.2 | BIR | 117.30 | 321 | ePKP | 29 | 19.00 | -1.3 |
| | 0.8s | | 35.00nm | | 5.5mb | | LON | 89.99 | 43 | P | 23 | 34.90 | 0.7 | CFR | 117.39 | 319 | ePKPc | 29 | 21.00 | 0.5 |
| BTO | 59.82 | 323 | iPc | 20 | 42.00 | 0.6 | RMW | 90.08 | 43 | P | 23 | 34.20 | -0.4 | GPA | 117.65 | 313 | ePKP | 29 | 20.30 | -0.9 |
| | Z | 18s | 3.30um | | 5.5Msz | | CMB | 90.10 | 52 | eP | 23 | 35.40 | 0.5 | PPCY | 117.66 | 307 | ePKP | 29 | 20.50 | -0.8 |
| | N | 18s | 1.80um | | | | | | e | 27 | 10.20 | | HRT | 117.94 | 314 | ePKP | 29 | 19.20 | -2.6X | |
| | E | 18s | 2.00um | | | | FRI | 90.54 | 53 | e(P) | 23 | 35.10 | -1.7 | PSN | 117.95 | 318 | ePKP | 29 | 25.00 | 3.4X |
| | | | sP | 21 | 04.50 | | VGB | 90.57 | 45 | P | 23 | 36.80 | -0.1 | YLV | 118.24 | 314 | iPKP | 29 | 21.70 | -0.7 |
| | | | S | 28 | 53.00 | | PNT | 91.72 | 41 | eP | 23 | 42.00 | -0.1 | ISK | 118.29 | 315 | ePKP | 29 | 20.00 | -2.3X |
| | | | sS | 29 | 19.00 | | | 1.0s | 24.00nm | | 5.6mb | | BCK | 118.32 | 310 | ePKP | 29 | 20.80 | -1.8 | |
| | | | eSS | 32 | 50.50 | | KVN | 91.97 | 51 | P | 23 | 43.40 | -0.3 | ISR | 118.45 | 320 | ePKP | 29 | 22.50 | -0.1 |
| HIA | 60.98 | 336 | iPc | 20 | 48.65 | -0.5 | TNP | 92.60 | 52 | P | 23 | 46.20 | -0.4 | SLR | 118.58 | 238 | iPKPc | 29 | 23.00 | -0.6 |
| | | | esPd | 21 | 07.85 | | | 1.2s | 17.47nm | | 5.4mb | | | 0.3s | 55.84nm | | | | | |
| | | | iPcP | 21 | 31.19 | | MBC | 93.88 | 14 | ePc | 23 | 50.90 | -0.6 | | i | | 32 | 56.10 | | |
| | | | ePP | 22 | 56.72 | | | 1.2s | 144.00nm | | 6.3mb | | BPI | 118.63 | 237 | ePKP | 29 | 19.50 | -4.2X | |
| | | | eS | 29 | 05.12 | | YKA | 95.15 | 28 | P | 23 | 57.50 | 0.0 | | 0.6s | 46.67nm | | | | |
| | | | ePS | 29 | 29.12 | | YKC | 95.21 | 28 | ePc | 23 | 57.50 | -0.3 | MLR | 118.69 | 320 | ePdiff | 25 | 44.00 | 0.7 |
| LZH | 61.29 | 316 | iPc | 20 | 52.56 | 0.9 | | 1.3s | 125.00nm | | 6.2mb | | MLR | 118.69 | 320 | ePKPc | 29 | 23.00 | -0.2 | |
| | 5.0s | | 7.65nm | | 4.1mb | X | MHI | 95.59 | 306 | iPc | 24 | 00.20 | -0.1 | | e | | 50 | 13.50 | | |
| | Z | 22s | 8.40um | | 5.8Msz | | | 0.6s | 293.33nm | | 6.9mb | | CTT | 118.71 | 315 | ePKP | 29 | 21.00 | -2.2 | |
| | N | 20s | 3.40um | | | | EDM | 95.82 | 37 | iPc | 24 | 00.50 | -0.4 | AKU | 118.73 | 356 | iPKP | 29 | 24.50 | 2.1X |
| | E | 22s | 5.80um | | | | KHI | 96.23 | 304 | iPc | 24 | 01.20 | -2.1 | | 1.1s | 131.65nm | | | | |
| | | | epPd | 21 | 07.13 | 53kmX | LRM | 96.42 | 45 | eP | 24 | 02.80 | -1.2 | PRY | 118.81 | 236 | iPKPc | 29 | 23.00 | -1.0 |
| | | | esPd | 21 | 13.59 | | | 96.42 | 45 | eP | 24 | 02.80 | -1.2 | | 0.9s | 19.23nm | | | | |
| | | | (S) | 29 | 07.43 | | MSU | 96.58 | 52 | P | 24 | 06.50 | 1.6 | KHL | 118.86 | 312 | iPKP | 29 | 21.90 | -1.8 |
| | | | ePS | 29 | 33.91 | | SES | 97.30 | 40 | ePc | 24 | 06.50 | -1.1 | DMK | 118.94 | 316 | ePKP | 29 | 23.00 | -0.6 |
| ADK | 61.91 | 21 | eP | 20 | 56.10 | 0.8 | | 1.3s | 95.00nm | | 6.2mb | | ELL | 119.05 | 310 | iPKP | 29 | 22.60 | -1.5 | |
| GTA | 65.71 | 317 | iPc | 21 | 21.40 | 0.8 | BW06 | 98.54 | 48 | P | 24 | 12.40 | -1.2 | KCT | 119.08 | 314 | iPKP | 29 | 27.00 | 3.1X |
| | 5.0s | | 3.30nm | | 3.6mb | X | | 1.0s | 10.00nm | | 5.3mb | | DST | 119.10 | 313 | ePKP | 29 | 23.80 | -0.2 | |
| | Z | 28s | 7.50um | | 5.7MszX | | ALE | 100.72 | 4 | ePdiff | 24 | 22.00 | -0.4 | CLE | 119.12 | 45 | iPKP | 29 | 25.00 | 1.1 |
| | E | 17s | 3.50um | | | | | 1.1s | 155.00nm | | 6.5mb | | KOT | 119.24 | 302 | ePKP | 29 | 23.50 | -1.0 | |
| | | | pP | 21 | 37.00 | 57kmX | | | pP | 24 | 52.00 | | PTZ | 119.25 | 251 | iPKPd | 29 | 24.30 | -0.7 | |
| | | | sP | 21 | 42.00 | | ALO | 101.22 | 55 | ePdiff | 24 | 26.00 | 0.1 | | i | | 29 | 29.00 | | |
| | | | S | 30 | 04.00 | | | Z | 22s | 3.52um | | 5.8Msz | | | i | | 30 | 45.50 | | |
| | | | sS | 30 | 28.00 | | GOL | 101.84 | 51 | Pdiff | 24 | 26.50 | -2.1X | | i | | 31 | 32.70 | | |
| | | | SS | 34 | 15.00 | | | Z | 19s | 1.42um | | 5.5Msz | | AKSR | 119.32 | 294 | iPKPd | 29 | 25.00 | 0.2 |
| LSA | 68.36 | 304 | iPc | 21 | 38.60 | 0.7 | GLD | 101.95 | 50 | Pdiff | 24 | 27.00 | -2.0X | BFS | 119.39 | 236 | iPKPd | 29 | 26.50 | 1.4 |
| | E | 25s | 6.20um | | | | | Z | 19s | 1.91um | | 5.6Msz | | | 1.0s | 60.00nm | | | | |
| | | | sP | 22 | 02.00 | | FFC | 102.38 | 35 | ePdiff | 24 | 29.50 | -0.8 | FRS | 119.41 | 232 | iPKPd | 29 | 27.00 | 2.2X |
| | | | S | 30 | 35.00 | | | 1.3s | 27.00nm | | 5.8mb | | | 0.5s | 31.69nm | | | | | |
| SDN | 70.93 | 26 | eP | 21 | 53.30 | 0.8 | AVY | 102.93 | 250 | iPdiff | 24 | 34.20 | 0.4 | | i | | 33 | 01.00 | | |
| GUN | 72.26 | 301 | P | 22 | 01.60 | 0.1 | TAB | 106.01 | 308 | ePdiff | 24 | 47.00 | -0.1 | KSL | 119.49 | 309 | ePKP | 29 | 24.50 | -0.3 |
| PKI | 72.57 | 301 | P | 22 | 03.20 | -0.2 | SOD | 107.63 | 341 | iPdiff | 24 | 49.70 | -3.7X | JMB | 119.50 | 317 | iPKPc | 29 | 26.00 | 1.4 |
| KKN | 72.74 | 301 | P | 22 | 04.20 | 0.0 | KJF | 108.93 | 338 | iPdiff | 24 | 58.80 | -0.4 | AKUR | 119.50 | 295 | iPKPd | 29 | 25.50 | 0.4 |
| DMN | 72.84 | 301 | P | 22 | 05.00 | 0.2 | | 0.8s | 76.30nm | | 7.0mb | | CJR1 | 119.61 | 322 | ePKP | 29 | 24.80 | 0.1 | |
| GKN | 73.34 | 301 | P | 22 | 07.70 | 0.1 | KJF | 108.93 | 338 | iPKP | 29 | 04.20 | 0.4 | AGMR | 119.77 | 294 | iPKPd | 29 | 36.00 | 10.4X |
| WMO | 75.79 | 317 | iPc | 22 | 22.50 | 1.2 | | 0.6s | 23.60nm | | | | KRA | 120.03 | 327 | iPKPc | 29 | 27.70 | 2.3X | |
| | 5.0s | | 3.80nm | | 3.6mb | X | SUF | 110.30 | 337 | iPdiff | 25 | 04.40 | -0.9 | | 0.8s | 66.00nm | | | | |
| | Z | 28s | 6.60um | | 5.8MszX | | | 0.7s | 17.10nm | | | | PVL | 120.04 | 318 | ePKP | 29 | 21.00 | -4.6X | |
| | | | S | 32 | 00.00 | | SUF | 110.30 | 337 | iPKP | 29 | 07.20 | 0.8 | BUL | 120.16 | 244 | iPKPd | 29 | 25.50 | -1.2 |
| | | | | | | | | 0.6s | 11.80nm | | | | | iP | | 32 | 59.50 | | | |
| KDC | 75.92 | 27 | eP | 22 | 21.20 | -0.4 | NPA | 111.59 | 252 | iPKP | 29 | 09.50 | -0.8 | SPC | 120.33 | 326 | ePKP | 29 | 27.30 | 1.1 |
| SVW | 76.55 | 23 | iPc | 22 | 25.00 | 0.6 | NUR | 112.09 | 335 | iPdiff | 25 | 12.40 | -0.9 | DIM | 120.38 | 317 | ePKP | 29 | 26.00 | -0.3 |
| KOD | 76.71 | 282 | iPc | 22 | 28.00 | 0.7 | NUR | 112.09 | 335 | iPKP | 29 | 10.50 | 0.7 | DEV | 120.42 | 322 | ePKPd | 29 | 26.00 | -0.3 |
| | 1.0s | | 468.00nm | | 6.4mb | | GDH | 113.11 | 10 | ePKP | 29 | 11.00 | -0.5 | REY | 120.49 | 357 | iPKP | 29 | 26.90 | 1.1 |
| GBA | 77.18 | 285 | P | 22 | 29.50 | 0.1 | | | e | 39 | 52.00 | | IZM | 120.51 | 312 | ePKP | 29 | 25.60 | -1.1 | |
| PMR | 79.42 | 24 | iPc | 22 | 40.20 | -0.6 | | | | | | | SCH | 120.55 | 26 | ePKP | 29 | 26.00 | -0.2 | |
| | 1.3s | | 693.40nm | | 6.4mb | | KVT | 113.25 | 313 | ePKP | 29 | 13.40 | 0.6 | ARG | 120.58 | 310 | ePKP | 29 | 27.00 | 0.1 |
| | Z | 20s | 3.50um | | 5.7Msz | | FRB | 113.78 | 19 | ePdiff | 25 | 26.00 | 5.2X | KDZ | 120.62 | 316 | iPKPd | 29 | 27.00 | 0.2 |
| MID | 79.55 | 27 | e(P) | 22 | 42.50 | 0.9 | FRB | 113.78 | 19 | ePKP | 29 | 12.00 | -1.0 | EZN | 120.68 | 314 | iPKP | 29 | 25.80 | -1.1 |
| NDI | 79.87 | 300 | iPc | 22 | 43.50 | -0.5 | | 0.7s | 37.00nm | | | | PRK | 120.93 | 314 | ePKP | 29 | 26.50 | -0.9 | |
| | 1.0s | | 450.00nm | | 6.4mb | | SHBJ | 113.95 | 303 | PKP | 29 | 14.60 | 0.1 | RZN | 121.08 | 317 | iPKPc | 29 | 27.00 | -0.9 |
| IMA | 80.20 | 19 | iPc | 22 | 45.30 | 0.1 | BHL | 115.22 | 305 | PKP | 29 | 16.00 | -0.9 | PGB | 121.10 | 318 | iPKPc | 29 | 27.00 | -0.7 |
| POO | 81.28 | 289 | iPd | 22 | 50.00 | -1.6 | | | pP | 30 | 19.00 | | PSZ | 121.20 | 325 | ePKP | 29 | 27.80 | 0.0 | |
| | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | |
|------|--------|----------|------------|----|--------|--------|--------|--------|----------|----------|-------|-------|--------|--------|----------|-----------|-------|-------|--------|--------|
| KAP | 121.53 | 309 | ePKP | 29 | 28.00 | -0.7 | | | 0.9s | 182.00nm | | | | | | | | | | |
| SSR | 121.63 | 321 | iPKPd | 29 | 29.00 | 0.4 | ELO | 125.10 | 344 | ePKPc | 29 | 34.50 | -0.4 | MNS | 128.51 | 323 | PKP | 29 | 40.40 | -1.6 |
| MMB | 121.80 | 317 | iPKPc | 29 | 29.00 | -0.1 | | | 1.2s | 425.00nm | | | VAI | 128.53 | 329 | PKP | 29 | 27.50 | -14.3X | |
| BUD | 121.93 | 325 | ePKP | 29 | 29.00 | -0.1 | WTS | 125.13 | 335 | ePKP | 29 | 35.00 | -0.1 | YRH | 128.55 | 343 | iPKPc | 29 | 42.50 | 0.8 |
| LSZ | 121.95 | 249 | iPKPc | 29 | 30.20 | 0.0 | | | 1.2s | 387.00nm | | | | 1.0s | 195.00nm | | | | | |
| | | | i | 29 | 42.50 | | VLO | 125.16 | 317 | iPKP | 29 | 36.10 | 0.6 | MME | 128.57 | 326 | PKP | 29 | 29.20 | -13.1X |
| | | | i | 30 | 09.00 | | BHG | 125.17 | 328 | iPKPd | 29 | 35.60 | 0.2 | DLE | 128.68 | 344 | ePKP | 29 | 40.40 | -1.5 |
| | | | i | 33 | 04.00 | | VBY | 125.19 | 325 | e(PKP) | 29 | 30.80 | -4.6X | | 1.1s | 248.00nm | | | | |
| KKB | 122.12 | 317 | iPKP | 29 | 30.00 | 0.4 | | | i | 29 | 36.00 | | BDI | 128.71 | 326 | PKP | 29 | 40.30 | -2.1 | |
| SRO | 122.15 | 326 | iPKP | 29 | 29.70 | 0.2 | EBH | 125.24 | 344 | ePKPc | 29 | 35.00 | -0.2 | GMB | 128.74 | 317 | PKP | 29 | 42.79 | 0.1 |
| | | | i | 29 | 31.70 | | | | 0.9s | 209.00nm | | | MMK | 128.82 | 329 | ePKPc | 29 | 30.20 | -12.5X | |
| CER | 122.23 | 226 | iPKPd | 29 | 28.00 | -2.1 | ESY | 125.28 | 344 | ePKPc | 29 | 35.00 | -0.3 | DCN | 128.82 | 345 | ePKP | 29 | 39.90 | -2.2 |
| | 1.0s | 100.00nm | | | | | LJU | 125.29 | 326 | ePKPc | 29 | 35.10 | -0.5 | | 1.3s | 998.00nm | | | | |
| TUH | 122.36 | 226 | iPKPc | 29 | 10.00 | -20.3X | KBA | 125.32 | 327 | ePKP | 29 | 34.00 | -1.9 | RDP | 128.86 | 322 | PKP | 29 | 44.30 | 1.6 |
| | 0.4s | 50.85nm | | | | | | 1.1s | 132.00nm | | | | BOB | 128.89 | 327 | PKP | 29 | 29.00 | -13.7X | |
| BEO | 122.45 | 322 | iPKP | 29 | 30.30 | 0.2 | | | ic | 29 | 37.60 | | PII | 128.96 | 325 | PKP | 29 | 35.10 | -7.6X | |
| RSNY | 122.45 | 39 | PKP | 29 | 30.80 | 0.6 | | | i | 32 | 30.60 | | ATN | 129.02 | 317 | PKPc | 29 | 43.30 | 0.2 | |
| | 1.0s | 35.00nm | | | | | | | e | 32 | 42.50 | | DIX | 129.08 | 330 | ePKPc | 29 | 30.40 | -12.9X | |
| Z | 22s | 3.17um | | | 5.9Msz | | | | e | 39 | 33.00 | | ORX | 129.09 | 329 | PKP | 29 | 43.90 | 0.8 | |
| PLG | 122.50 | 316 | ePKP | 29 | 29.00 | -1.4 | | | i | 39 | 54.10 | | ORO | 129.10 | 329 | PKP | 29 | 29.70 | -13.4X | |
| ZST | 122.61 | 326 | iPKP | 29 | 30.80 | 0.5 | EDI | 125.43 | 344 | ePKPc | 29 | 35.40 | -0.2 | ETA | 129.12 | 344 | ePKP | 29 | 43.40 | 0.7 |
| | | | i | 29 | 32.80 | | EAB | 125.51 | 345 | ePKPc | 29 | 35.20 | -0.5 | | 1.4s | 368.00nm | | | | |
| | | | e | 43 | 16.70 | | | | 1.2s | 400.00nm | | | EMS | 129.33 | 330 | ePKPc | 29 | 30.40 | -13.2X | |
| VAY | 122.70 | 317 | iPKP | 29 | 29.40 | -1.3 | CEY | 125.53 | 325 | ePKPc | 29 | 35.80 | -0.4 | GEN | 129.40 | 327 | PKP | 29 | 43.18 | -0.3 |
| | | | i | 29 | 32.30 | | RBL | 125.59 | 326 | PKP | 29 | 35.40 | -0.9 | MAO | 129.41 | 324 | PKP | 29 | 30.80 | -12.8X |
| CLL | 122.82 | 331 | iPKPc | 29 | 30.60 | 0.0 | VOY | 125.66 | 326 | iPKPc | 29 | 35.90 | -0.6 | MAO | 129.41 | 324 | PKP | 29 | 43.20 | -0.4 |
| | 0.7s | 100.00nm | | | | TNS | 125.69 | 333 | ePKP | 29 | 37.00 | 0.6 | ECB | 129.57 | 344 | ePKP | 29 | 44.80 | 1.2 | |
| NPS | 122.83 | 309 | ePKP | 29 | 31.00 | -0.2 | FUR | 125.72 | 329 | ePKP | 29 | 36.20 | -0.3 | | 1.3s | 315.00nm | | | | |
| TIH | 122.89 | 325 | ePKP | 29 | 31.40 | 0.5 | | 1.3s | 273.00nm | | | | ECP | 129.63 | 344 | ePKP | 29 | 43.40 | -0.3 | |
| VKA | 123.00 | 327 | ePKP | 29 | 31.00 | -0.1 | HVAR | 125.77 | 322 | iPKP | 29 | 36.40 | -0.3 | | 1.2s | 792.00nm | | | | |
| | 1.2s | 233.00nm | | | | | TRI | 125.92 | 326 | PKP | 29 | 36.90 | 0.0 | LSD | 129.64 | 329 | PKP | 29 | 45.54 | 1.2 |
| | | | i | 29 | 34.20 | | FVI | 125.93 | 327 | PKP | 29 | 35.70 | -1.1 | MNO | 129.66 | 317 | PKP | 29 | 46.70 | 2.2X |
| NEO | 123.09 | 315 | ePKP | 29 | 30.00 | -1.6 | EKA | 125.94 | 343 | PKPd | 29 | 36.80 | 0.2 | CKI | 129.75 | 327 | PKP | 29 | 31.50 | -12.7X |
| LNV | 123.14 | 136 | ePKP | 29 | 32.00 | 0.2 | | 1.4s | 321.40nm | | | | RSP | 129.79 | 329 | PKP | 29 | 44.93 | 0.5 | |
| SKO | 123.17 | 318 | iPKPc | 29 | 31.00 | -0.6 | ESK | 125.97 | 343 | iPKPc | 29 | 37.60 | 0.9 | LPG | 129.81 | 329 | ePKP | 29 | 31.20 | -13.5X |
| | 1.0s | 57.00nm | | | | | | 1.0s | 100.00nm | | | | | 0.8s | 5.90nm | | | | | |
| Z | 20s | 1.60um | | | 5.7Msz | | LCI | 126.26 | 318 | PKP | 29 | 37.50 | -0.2 | MEU | 129.91 | 316 | PKP | 29 | 48.60 | 3.7X |
| N | 20s | 1.92um | | | | | ENN | 126.41 | 335 | iPKPc | 29 | 38.10 | 0.4 | LOR | 129.93 | 333 | ePKP | 29 | 30.80 | -13.7X |
| E | 20s | 2.15um | | | | | | 1.0s | 240.00nm | | | | | 0.8s | 7.20nm | | | | | |
| | | | i | 29 | 34.20 | | BRT | 126.49 | 319 | PKP | 29 | 38.00 | -0.2 | FIN | 129.93 | 327 | PKP | 29 | 43.59 | -1.0 |
| | | | i | 30 | 55.00 | | MEM | 126.49 | 334 | PKPc | 29 | 37.60 | -0.2 | ROB | 130.05 | 328 | PKP | 29 | 45.23 | 0.3 |
| | | | iS | 41 | 02.70 | | VVI | 126.50 | 327 | PKP | 29 | 38.59 | 0.5 | GIB | 130.08 | 317 | PKP | 29 | 28.00 | -17.2X |
| | | | LR | 20 | 20.00 | | OGA | 126.69 | 328 | ePKP | 29 | 26.50 | -12.1X | LBF | 130.08 | 333 | ePKP | 29 | 31.00 | -13.9X |
| SOP | 123.21 | 326 | ePKP | 29 | 32.00 | 0.5 | | | i | 29 | 38.60 | | | 1.2s | 27.90nm | | | | | |
| LCCB | 123.29 | 135 | ePKP | 29 | 30.00 | -2.1 | FG3 | 126.87 | 320 | PKP | 29 | 39.02 | 0.1 | BNI | 130.16 | 329 | PKP | 29 | 30.80 | -14.4X |
| CBN | 123.33 | 47 | ePKP | 29 | 33.00 | 1.0 | GWf | 126.95 | 332 | PKP | 29 | 39.01 | 0.2 | RRL | 130.20 | 329 | PKP | 29 | 47.08 | 1.7 |
| TACH | 123.63 | 136 | ePKP | 29 | 35.00 | 2.1X | UCC | 127.04 | 336 | PKPd | 29 | 39.70 | 0.9 | SSF | 130.24 | 333 | ePKP | 29 | 30.90 | -14.2X |
| KZN | 123.69 | 316 | ePKP | 29 | 31.50 | -1.3 | WLF | 127.13 | 334 | PKPc | 29 | 39.70 | 0.7 | DOI | 130.24 | 328 | PKP | 29 | 44.86 | -0.4 |
| IYA | 123.75 | 320 | ePKP | 29 | 32.30 | -0.6 | STR | 127.16 | 332 | PKP | 29 | 39.72 | 0.6 | USI | 130.27 | 319 | PKP | 29 | 46.10 | 0.7 |
| KKS | 123.80 | 319 | iPKP | 29 | 33.00 | 0.2 | OSS | 127.27 | 329 | ePKPc | 29 | 26.20 | -13.5X | IMI | 130.30 | 327 | PKP | 29 | 45.03 | -0.4 |
| PLE | 123.85 | 321 | ePKP | 29 | 33.00 | -0.1 | AOI | 127.29 | 324 | ePKP | 29 | 35.91 | -3.7X | PZZ | 130.32 | 328 | PKP | 29 | 46.88 | 1.4 |
| VAM | 123.86 | 310 | ePKP | 29 | 35.50 | 2.3X | SNF | 127.29 | 335 | PKPc | 29 | 39.60 | 0.3 | STV | 130.38 | 328 | PKP | 29 | 44.82 | -0.7 |
| BCI | 123.89 | 319 | iPKP | 29 | 32.70 | -0.3 | SAX | 127.30 | 330 | ePKPc | 29 | 26.80 | -13.1X | SMF | 130.40 | 332 | ePKP | 29 | 31.50 | -13.9X |
| MOX | 123.92 | 331 | iPKPc | 29 | 33.00 | 0.1 | FG2 | 127.31 | 321 | PKP | 29 | 39.27 | -0.4 | | 0.7s | 7.70nm | | | | |
| | 1.8s | 185.00nm | | | | | SLE | 127.38 | 331 | ePKPc | 29 | 26.90 | -12.8X | SAOF | 130.43 | 328 | PKP | 29 | 33.12 | -12.5X |
| | | | iPP | 31 | 19.50 | | DOU | 127.48 | 335 | PKP | 29 | 35.00 | -4.7X | AUTN | 130.49 | 328 | PKP | 29 | 34.19 | -11.8X |
| | | | ePS | 41 | 20.00 | | | | e | 29 | 40.80 | | AVF | 130.51 | 333 | ePKP | 29 | 32.00 | -13.6X | |
| | | | eSS | 49 | 15.00 | | | | e | 35 | 15.90 | | | 1.0s | 16.00nm | | | | | |
| | | | eLR | 10 | 00.00 | | ZLA | 127.63 | 330 | ePKPc | 29 | 27.40 | -12.8X | MCT | 130.53 | 317 | PKP | 29 | 47.90 | 1.7 |
| KHC | 123.93 | 329 | Pd i f f d | 26 | 06.80 | 0.4X | ARV | 127.71 | 324 | PKP | 29 | 40.00 | -0.4 | LDF | 130.58 | 337 | ePKP | 29 | 34.50 | -11.2X |
| PCH | 123.95 | 136 | ePKP | 29 | 30.00 | -3.6X | RSM | 127.74 | 325 | PKP | 29 | 41.30 | 0.9 | | 1.0s | 20.00nm | | | | |
| PHP | 123.96 | 318 | iPKPc | 29 | 32.70 | -0.5 | LLS | 127.74 | 329 | ePKPc | 29 | 27.30 | -13.3X | AURF | 130.62 | 328 | PKP | 29 | 34.01 | -12.0X |
| OMR | 123.99 | 318 | ePKP | 29 | 21.50 | -11.9X | VDL | 127.75 | 329 | ePKPc | 29 | 28.00 | -12.7X | CVF | 130.63 | 325 | ePKP | 29 | 33.60 | -12.4X |
| | 1.0s | 0.28nm | | | | | CIO | 127.76 | 323 | ePKP | 29 | 36.21 | -4.4X | | 0.8s | 6.40nm | | | | |
| | | | i | 29 | 32.40 | | SAL | 127.77 | 327 | PKP | 29 | 40.50 | 0.1 | FAI | 130.69 | 317 | PKP | 29 | 48.00 | 1.8 |
| PEL | 124.09 | 136 | iPKPd | 29 | 34.60 | 0.8 | DUI | 127.83 | 321 | PKP | 29 | 41.20 | 0.4 | MVIF | 130.70 | 328 | PKP | 29 | 35.53 | -10.7X |
| TTG | 124.38 | 320 | ePKP | 29 | 33.60 | -0.4 | MGR | 127.95 | 319 | PKP | 29 | 38.70 | -2.2X | BGF | 130.92 | 333 | ePKP | 29 | 32.30 | -14.1X |
| JACH | 124.41 | 135 | ePKP | 29 | 36.00 | 1.5 | MOF | 127.98 | 331 | PKP | 29 | 40.62 | -0.3 | | 1.0s | 12.00nm | | | | |
| SDA | 124.43 | 319 | iPKP | 29 | 34.00 | -0.1 | BBS | 128.07 | 331 | PKP | 29 | 40.51 | -0.5 | CALN | 130.94 | 328 | PKP | 29 | 34.03 | -12.7X |
| TIR | 124.50 | 318 | ePKP | 29 | 34.00 | -0.2 | SFI | 128.09 | 325 | PKPc | 29 | 43.00 | 2.0X | PLDF | 131.00 | 332 | PKP | 29 | 37.39 | -9.3X |
| LSK | 124.56 | 317 | ePKP | 29 | 34.90 | 0.4 | MDI | 128.09 | 328 | PKP | 29 | 41.30 | 0.3 | ERC | 131.02 | 318 | PKP | 29 | 47.60 | 0.7 |
| PTJ | 124.56 | 325 | ePKP | 29 | 23.60 | -10.7X | AQU | 128.09 | 322 | PKP | 29 | 43.30 | 2.1X | GRR | 131.03 | 337 | ePKP | 29 | 35.10 | -11.4X |
| WIT | 124.58 | 336 | ePKP | 29 | 35.50 | 1.5 | ASS | 128.12 | 324 | PKP | 29 | 41.43 | 0.2 | | 1.0s | 24.00nm | | | | |
| ZAG | 124.60 | 325 | iPKPc | 29 | 34.50 | 0.2 | BSF | 128.15 | 332 | PKP | 29 | 41.03 | -0.2 | CVT | 131.07 | 318 | PKP | 29 | 47.90 | 1.0 |
| BRY | 124.60 | 320 | ePKP | 29 | 34.00 | -0.6 | PGD | 128.19 | 325 | PKP | 29 | 29.50 | -12.0X | AGO | 131.17 | 332 | PKP | 29 | 36.78 | -10.1X |
| KMZ | 124.63 | 250 | iPKPd | 29 | 35.90 | 0.5 | CRE | 128.21 | 325 | PKP | 29 | 40.60 | -0.9 | FRF | 131.20 | 328 | ePKP | 29 | 33.50 | -13.5X |
| | | | i | 29 | 52.60 | | SDI | 128.21 | 322 | PKP | 29 | 32.40 | -9.1X | | 0.8s | 10.70nm</ | | | | |

STJ 131.81 23 ePKP 29 48.00 0.0
 PTS 132.08 317 PKP 29 46.40 -2.5X
 RJF 132.47 333 ePKP 29 36.40 -13.0X
 1.1s 14.60nm
 CAF 132.51 332 ePKP 29 36.00 -13.5X
 1.0s 8.00nm
 LPO 133.10 333 ePKP 29 37.30 -13.3X
 0.8s 10.70nm
 LFF 133.11 333 ePKP 29 37.10 -13.5X
 1.0s 9.60nm
 HJA 133.36 128 ePKP 29 54.00 2.3X
 e 29 55.60
 CNCB 134.19 119 ePKP 29 42.00 -12.2X
 LPB 134.20 118 ePKP 29 46.00 -8.0X
 0.9s 58.82nm
 Z 25s 1.61um 5.6MsZ
 ZOBO 134.28 118 PKP 29 42.00 -12.4X
 LR 14 35.00
 LR 15 00.00
 BNG 134.67 272 iPKPd 29 39.20 -15.3X
 1.6s 104.00nm
 id 29 54.20
 id 32 27.40
 id 33 20.60
 ic 33 55.10
 EPF 134.76 332 ePKP 29 41.00 -12.9X
 0.8s 7.20nm
 CCH 135.54 120 PKP 29 50.70 -5.7X
 ESEL 135.85 327 ePKP 29 46.70 -9.3X
 ETOR 137.60 332 ePKP 29 48.20 -11.2X
 EMON 137.64 339 e(PKP) 29 48.00 -11.3X
 ECHE 138.02 330 ePKP 29 50.00 -10.2X
 ERUA 138.47 338 e(PKP) 29 51.00 -9.9X
 STS 138.55 340 e(PKP) 29 50.30 -10.6X
 GUD 138.70 333 ePKP 29 51.30 -10.2X
 TOL 139.27 333 ePKP 29 55.50 -6.9X
 ePKS 33 02.00
 iPP 33 35.00
 ePS 45 20.00
 EVIA 139.51 330 ePKP 29 54.00 -9.0X
 EALH 139.55 328 ePKP 29 54.50 -8.4X
 CAR 139.95 79 ePKP 30 02.00 -2.4X
 EPLA 140.01 335 ePKP 29 56.00 -7.7X
 ITB7 140.31 139 e(PKP) 29 53.20 -11.5X
 ITB1 140.50 139 e(PKP) 30 02.40 -2.6X
 EBAN 140.51 331 ePKP 29 57.30 -7.4X
 ENIJ 140.64 328 e(PKP) 29 56.50 -8.4X
 AFC 141.10 330 e(PKP) 29 58.00 -7.9X
 ASMO 141.12 330 iPKPc 29 58.70 -7.2X
 CRT 141.18 330 iPKP 29 59.70 -6.3X
 AAPN 141.35 330 iPKPd 29 59.20 -7.1X
 ACHM 141.36 330 iPKPc 29 59.50 -6.8X
 APHE 141.41 330 iPKPc 30 00.00 -6.5X
 EHOR 141.48 332 ePKP 30 00.20 -6.2X
 ALOJ 141.50 330 iPKPc 29 59.50 -7.1X
 ATEJ 141.60 330 iPKPc 30 00.00 -6.9X
 EPRU 142.16 331 ePKP 30 02.70 -5.0X
 TAF 142.35 326 iPKP 30 02.00 -6.1X
 EVAL 142.36 333 ePKP 30 03.00 -4.9X
 LIS 142.41 337 ePKP 30 03.00 -5.0X
 IFR 144.80 327 iPKPc 30 12.50 0.0
 FDF 144.86 71 ePKP 30 10.00 -2.8X
 SVB 145.07 73 ePKP 30 10.06 -3.1X
 RBA 145.31 330 iPKPc 30 13.70 0.7
 i 30 15.00
 i 30 19.00
 TPP 145.33 79 ePKP 30 15.26 1.7
 TRN 145.34 78 ePKP 30 13.98 0.4
 TBH 145.69 78 ePKP 30 15.73 1.5
 AVE 146.16 330 iPKPc 30 16.00 1.5
 i 30 25.00
 BRAS 147.42 147 ePKP 30 05.80 -11.3X
 TIO 147.95 327 iPKPc 30 18.20 0.6
 BMA 148.05 149 ePKP 30 18.30 0.4
 i 30 21.10
 e 30 28.20
 e 30 53.50
 SHGH 153.19 274 ePKP 30 25.00 -0.7
 LEGH 153.34 273 ePKP 30 26.50 0.6
 KOGH 153.39 274 ePKP 30 26.50 0.4
 KUK 153.51 275 ePKP 30 26.00 -0.2
 0.6s 750.00nm
 ATB 153.54 107 PKPd 30 26.80 0.6
 GGC 154.28 337 ePKP 30 35.00 8.1X
 TBT 154.59 341 iPKPc 30 29.30 2.1X
 KIC 157.84 275 PKP 30 31.76 -0.1
 0.3s 222.00nm

TIC 158.10 276 PKP 30 31.90 -0.3
 1.4s 173.00nm
 LIC 158.13 275 PKP 30 32.08 -0.1
 1.3s 211.00nm
 S.D. = 0.9 on 368 of 504 obs.
 * FEB 05, 1989 00h 16m 18.30±1.11s
 34.903 N ±10.6km 25.889 E ±8.4km
 DEPTH = 10.0km (geophysicist)
 CRETE (370)
 MD 3.9 (ATH).
 NPS 0.42 328 ePg 16 26.50 -0.5
 KAP 1.24 58 ePb 16 42.00 0.7
 VAM 1.47 290 ePb 16 46.00 1.1
 ARG 2.25 54 ePn 16 58.00 1.9
 KSL 3.25 67 ePn 17 11.00 0.7
 IZM 3.66 17 eP 17 16.00 -0.2
 ELL 3.75 59 iP 17 20.20 2.6X
 BCK 4.58 55 eP 17 28.00 -1.3
 EZN 4.93 4 eP 17 32.70 -1.4
 PRNI 8.92 118 ePc 18 28.50 -1.7
 MBH 9.17 121 eP 18 34.00 0.5
 S.D. = 1.4 on 10 of 11 obs.
 * FEB 05, 1989 01h 00m 49.83±0.91s
 40.743 N ±8.8km 19.951 E ±14.2km
 DEPTH = 10.0km (geophysicist)
 ALBANIA (391)
 BERA 0.04 182 iPg 00 52.20 0.3
 VLO 0.44 232 ePg 00 58.70 -0.1
 TIR 0.61 354 ePg 01 01.70 -0.4
 LSK 0.77 140 ePg 01 13.80 8.9X
 PHP 1.01 21 ePg 01 10.30 1.3
 SKO 1.66 42 ePn 01 18.00 -1.1
 iSn 01 42.50
 S.D. = 1.3 on 5 of 6 obs.
 ? FEB 05, 1989 01h 05m 25.75±4.67s
 7.310 S ±30.0km 129.666 E ±20.7km
 DEPTH = 143.2 ±55.0 km
 4.1mb (3 obs.)
 BANDA SEA (280)
 MTN 5.69 165 eP 06 50.00 0.8
 eS 07 52.00
 KNA 8.43 186 eP 07 26.00 -0.2
 eS 08 53.00
 WB5 13.30 160 eP 08 28.30 -1.9
 eS 10 49.00
 WRA 13.35 161 Pd 08 29.50 -1.3
 0.4s 2.60nm 4.0mb
 QIS 16.31 145 eP 09 10.00 2.0
 eS 12 00.00
 MBL 16.73 214 eP 09 14.00 0.9
 eS 12 10.00
 ASPA 16.76 166 eP 09 16.30 2.7X
 eS 12 14.90
 CHTO 39.89 311 eP 12 45.90 -1.4
 0.8s 1.10nm 3.7mb
 GUN 54.91 312 P 14 44.80 0.4
 0.4s 20.00nm 5.3mb X
 PKI 55.07 311 P 14 45.70 0.1
 0.5s 8.00nm 4.8mb
 DMN 55.32 311 P 14 47.60 0.3
 GKN 55.88 311 P 14 51.50 0.3
 0.4s 18.00nm 5.4mb X
 QUE 70.70 305 eP 16 21.00 -7.5X
 FFC 117.39 31 ePKP 23 58.00 2.3X
 0.7s 8.00nm
 S.D. = 1.4 on 11 of 14 obs.
 ? FEB 05, 1989 01h 24m 14.77±8.78s
 44.392 N ±51.9km 6.764 E ±31.0km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 MD 2.1 (STR).
 TOUF 0.51 137 Pg 24 25.35 0.1
 MVIF 0.57 150 Pg 24 26.11 -0.3
 Sg 24 33.48
 AUTN 0.62 129 Pg 24 27.47 0.0
 CALN 0.65 172 Pg 24 27.73 -0.1
 AURF 0.65 141 Pg 24 27.97 0.2
 SAOF 0.70 125 Pg 24 28.32 -0.3
 Sg 24 37.79

S.D. = 0.3 on 6 of 6 obs.
 FEB 05, 1989 01h 25m 16.33±0.32s
 44.280 N ±2.1km 6.769 E ±3.0km
 DEPTH = 7.4 ±3.3 km
 FRANCE (538)
 ML 3.0 (GEN), 2.9 (LDG).
 FOUF 0.25 2 P 25 21.80 0.3
 e 25 21.85
 PZZ 0.33 47 P 25 23.45 0.4
 S 25 27.92
 STV 0.40 95 Pc 25 24.71 0.2
 S 25 29.77
 DOI 0.41 57 P 25 24.80 0.2
 eSg 25 29.70
 SBF 0.64 131 Pg 25 29.20 0.1
 Sg 25 37.70
 RRL 0.64 1 Pc 25 29.09 -0.1
 S 25 38.38
 FRF 0.72 187 Pg 25 31.00 0.2
 Sg 25 41.20
 BNI 0.78 355 P 25 31.60 -0.2
 eSg 25 42.00
 ROB 0.79 89 P 25 32.15 0.2
 S 25 42.28
 LRG 0.88 200 Pg 25 33.50 0.1
 Sg 25 48.20
 IMI 0.89 114 P 25 33.64 0.0
 S 25 45.66
 RSP 0.94 22 P 25 34.50 0.0
 S 25 46.58
 LMR 0.96 191 Pg 25 35.10 0.2
 Sg 25 50.20
 FIN 1.04 93 Pc 25 36.17 0.0
 S 25 49.60
 CKI 1.09 82 P 25 37.40 0.3
 eSg 25 51.50
 LSD 1.21 13 P 25 39.39 0.1
 S 25 53.90
 LPG 1.22 359 Pg 25 39.40 0.0
 Sg 25 55.80
 ORO 1.60 32 P 25 44.30 -0.8
 eSn 26 04.60
 CVF 2.30 137 Pn 25 54.40 -0.8
 Sn 26 20.70
 CAF 3.42 283 Pn 26 11.40 0.3
 S.D. = 0.3 on 20 of 20 obs.
 FEB 05, 1989 01h 59m 10.02±1.64s
 34.851 N ±15.3km 84.912 E ±14.4km
 DEPTH = 33.0km (normol)
 TIBET (306)
 GKN 6.83 182 P 00 51.50 0.9
 0.6s 12.00nm 5.0mb X
 GUN 6.97 173 P 00 51.80 -0.9
 KKN 7.05 177 P 00 55.80 2.1X
 0.6s 16.00nm 5.1mb X
 DMN 7.22 179 P 00 56.80 0.6
 0.6s 11.00nm 5.0mb X
 PKI 7.27 177 P 00 56.20 -0.8
 0.5s 17.00nm 5.3mb X
 NDI 8.98 229 ePc 01 20.50 0.1
 1.0s 220.00nm 6.3mb X
 HYB 18.27 200 eP 03 18.30 -4.4X
 CHTO 20.26 138 eP 03 45.70 0.3
 MHI 20.71 281 eP 03 50.00 -0.1
 S.D. = 0.8 on 7 of 9 obs.
 FEB 05, 1989 01h 59m 48.65±0.13s
 33.385 N ±2.7km 140.811 E ±2.8km
 DEPTH = 59.8km (24 depth phases)
 5.6mb (74 obs.)
 SOUTH OF HONSHU, JAPAN (211)
 Felt (III JMA) on Hochijo-jima;
 (II JMA) on Miyake-jima and (I
 JMA) at Tokyo, Yokohama and
 Toteyama.
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 9S, 18C
 Centroid Location:
 Origin Time 01:59:50.0 0.6
 Lat 33.12N 0.09 Lon 140.93E 0.06
 Dep 32.6 4.5 Half-duration 2.1
 Moment Tensor: Scale 10**17 Nm

05d 01h

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| Mrr= 1.62 0.08 | Mtt= 0.53 0.10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | </ |
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| TOO | 70.73 | 176 | iPc | 11 | 01.00 | 0.9 | TPC | 81.50 | 55 | eP | 12 | 01.00 | -0.1 | SKO | 86.62 | 319 | iP | 12 | 28.80 | 2.0 |
| RMW | 70.77 | 45 | P | 11 | 00.70 | 0.1 | MSU | 81.51 | 49 | P | 12 | 02.10 | 0.8 | PTJ | 86.67 | 325 | eP | 12 | 26.60 | -0.4 |
| SUF | 71.02 | 334 | iP | 11 | 01.20 | -0.5 | ISR | 81.75 | 319 | ePd | 12 | 04.00 | 1.8 | TNS | 86.70 | 332 | ePc | 12 | 29.50 | 2.4 |
| | 0.7s | 29.10nm | | | | 5.3mb | KRA | 81.84 | 326 | eP | 12 | 02.70 | 0.3 | K8A | 87.02 | 327 | eP | 12 | 29.00 | 0.1 |
| PNT | 71.15 | 43 | eP | 11 | 02.00 | -0.7 | | | e | 12 | 06.70 | 13kmX | | | 2.0s | 60.00nm | | | 5.4mb | |
| | 1.1s | 64.00nm | | | | 5.5mb | | | e | 12 | 14.60 | | | | | i | 12 | 38.20 | 29kmX | |
| EDM | 72.53 | 37 | ePc | 11 | 09.80 | -1.0 | MLR | 81.85 | 320 | ePd | 12 | 04.00 | 1.2 | | | | i | 15 | 49.00 | |
| | 1.0s | 108.00nm | | | | 5.7mb | BAR | 81.87 | 56 | eP | 12 | 03.00 | 0.0 | | | | i | 16 | 10.60 | |
| DPW | 72.69 | 44 | P | 11 | 11.80 | -0.1 | CJR1 | 82.28 | 322 | eP | 12 | 05.80 | 1.0 | LJU | 87.24 | 326 | e(P) | 12 | 29.00 | -0.7 |
| NUR | 72.94 | 332 | iP | 11 | 12.30 | -0.7 | SPC | 82.29 | 325 | eP | 12 | 06.40 | 1.3 | ENN | 87.24 | 333 | eP | 12 | 29.00 | -0.6 |
| TAB | 73.46 | 305 | eP | 11 | 18.00 | 1.3 | SHBJ | 82.59 | 304 | P | 12 | 08.40 | 1.6 | | 1.0s | 50.00nm | | | 5.7mb | |
| WDC | 73.67 | 52 | ePc | 11 | 18.00 | 0.3 | HRT | 82.67 | 314 | eP | 12 | 04.10 | -2.9 | ALO | 87.33 | 49 | eP | 12 | 30.00 | -0.6 |
| | | eP | 11 | 35.20 | 63km | | ISK | 82.88 | 315 | eP | 12 | 05.10 | -2.9 | | 1.0s | 11.25nm | | | 5.0mb | |
| LBFM | 73.72 | 51 | P | 11 | 18.90 | 0.7 | IKL | 82.93 | 309 | eP | 12 | 08.00 | -0.3 | Z | 20s | 0.71um | | | 5.1msz | |
| LTCM | 74.14 | 52 | P | 11 | 20.20 | -0.2 | KSP | 82.94 | 328 | eP | 12 | 08.70 | 0.6 | MEM | 87.34 | 333 | P | 12 | 32.00 | 2.0 |
| MIN | 74.41 | 52 | eP | 11 | 21.20 | -1.0 | | 1.5s | 88.00nm | | | 5.5mb | | RBL | 87.40 | 327 | P | 12 | 30.50 | 0.0 |
| | | eP | 11 | 38.20 | 62km | | | | e | 15 | 29.00 | | CEY | 87.52 | 326 | eP | 12 | 30.90 | -0.2 | |
| ORV | 74.88 | 53 | eP | 11 | 24.40 | -0.3 | BHL | 82.99 | 306 | P | 12 | 09.50 | 0.7 | VOY | 87.55 | 326 | e(P) | 12 | 30.00 | -1.3 |
| | | eP | 11 | 40.80 | 59km | | YLV | 83.00 | 314 | iP | 12 | 09.10 | 0.3 | OHR | 87.56 | 319 | eP | 12 | 30.60 | -0.8 |
| BRK | 75.23 | 54 | eP | 11 | 26.70 | 0.0 | DMK | 83.17 | 316 | eP | 12 | 10.00 | 0.5 | FVI | 87.64 | 327 | P | 12 | 30.20 | -1.3 |
| BKS | 75.25 | 54 | eP | 11 | 27.10 | 0.3 | CTT | 83.20 | 315 | eP | 12 | 09.00 | -0.7 | TIR | 87.91 | 320 | ePc | 12 | 32.70 | -0.3 |
| | 0.9s | 58.00nm | | | | 5.5mb | DEV | 83.20 | 322 | ePd | 12 | 12.00 | 2.4 | WLF | 88.04 | 332 | Pc | 12 | 34.20 | 0.8 |
| | | e | 11 | 41.70 | 51km | | HRI | 83.29 | 305 | eP | 12 | 12.00 | 1.5 | SNF | 88.06 | 334 | Pd | 12 | 34.00 | 0.5 |
| | | e | 12 | 19.30 | | | PSZ | 83.33 | 324 | eP | 12 | 11.20 | 0.9 | DOU | 88.29 | 334 | Pc | 12 | 34.60 | 0.0 |
| SLY | 75.27 | 303 | eP | 11 | 27.00 | 0.0 | RSON | 83.35 | 31 | P | 12 | 09.80 | -0.4 | CDF | 88.60 | 331 | eP | 12 | 34.90 | -1.4 |
| | | iPcP | 11 | 42.50 | | | | 1.1s | 55.23nm | | | 5.5mb | | | 1.0s | 16.00nm | | | 5.2mb | |
| | | eS | 21 | 03.00 | | | | | pP | 12 | 26.00 | 57km | SLE | 88.61 | 330 | ePc | 12 | 35.10 | -1.2 | |
| SES | 75.28 | 39 | ePc | 11 | 26.60 | -0.3 | JMB | 83.43 | 317 | iPd | 12 | 13.00 | 2.2 | OSS | 88.75 | 329 | ePc | 12 | 36.90 | -0.2 |
| | 1.3s | 144.00nm | | | | 5.7mb | LFK | 83.59 | 308 | eP | 12 | 12.40 | 0.5 | SCH | 89.00 | 16 | eP | 12 | 38.00 | 0.0 |
| | | pP | 11 | 43.00 | 59km | | PVL | 83.65 | 318 | eP | 12 | 13.00 | 1.1 | VDL | 89.20 | 329 | ePc | 12 | 39.10 | -0.2 |
| MHC | 75.92 | 55 | eP | 11 | 30.90 | 0.0 | JARJ | 83.75 | 305 | P | 12 | 13.80 | 1.0 | SAL | 89.41 | 328 | P | 12 | 40.00 | 0.0 |
| ARN | 75.99 | 54 | P | 11 | 31.60 | 0.5 | KCT | 83.81 | 315 | iP | 12 | 13.60 | 0.8 | TMA | 89.75 | 329 | ePc | 12 | 41.20 | -0.7 |
| UPP | 76.01 | 334 | iP | 11 | 30.50 | -0.2 | BURJ | 83.89 | 305 | P | 12 | 13.00 | -0.4 | ARV | 89.89 | 325 | P | 12 | 42.50 | 0.1 |
| TAU | 76.16 | 175 | eP | 11 | 34.00 | 2.4 | CSS | 83.92 | 308 | eP | 12 | 15.00 | 1.5 | VAI | 89.98 | 329 | Pc | 12 | 42.10 | -0.6 |
| CMB | 76.41 | 53 | iPc | 11 | 34.70 | 1.2 | CLL | 84.01 | 330 | iPc | 12 | 13.30 | -0.2 | SFI | 90.09 | 326 | P | 12 | 46.00 | 2.8 |
| | | eP | 11 | 50.40 | 56km | | | 1.4s | 80.00nm | | | 5.6mb | MMK | 90.19 | 329 | ePc | 12 | 44.80 | 0.8 | |
| MSL | 76.50 | 305 | eP | 11 | 33.00 | -0.9 | | | i | 12 | 32.00 | 68km | PGD | 90.19 | 326 | Pc | 12 | 45.00 | 1.1 | |
| | | ePcP | 11 | 49.00 | | | | | eSg | 21 | 30.00 | | CRE | 90.27 | 326 | P | 12 | 44.00 | -0.2 | |
| | | eS | 21 | 15.00 | | | EDC | 84.04 | 315 | eP | 12 | 07.40 | -6.5X | ASS | 90.35 | 325 | P | 12 | 45.00 | 0.4 |
| | | eScS | 21 | 41.00 | | | BZS | 84.05 | 322 | eP | 12 | 14.50 | 0.6 | DIX | 90.40 | 330 | ePc | 12 | 45.40 | 0.4 |
| PRS | 76.64 | 55 | eP | 11 | 35.00 | 0.3 | DST | 84.05 | 314 | eP | 12 | 14.90 | 0.8 | MME | 90.42 | 327 | Pc | 12 | 45.60 | 0.5 |
| | | eP | 11 | 51.60 | 60km | | BUD | 84.06 | 325 | eP | 12 | 14.00 | 0.1 | FIR | 90.48 | 326 | eP | 12 | 46.00 | 1.0 |
| LLA | 76.78 | 55 | eP | 11 | 35.60 | 0.1 | SALJ | 84.06 | 304 | P | 12 | 16.00 | 1.7 | ORX | 90.51 | 329 | P | 12 | 45.41 | 0.1 |
| | | eP | 11 | 52.50 | 61km | | KMSA | 84.08 | 290 | eP | 12 | 14.70 | 0.2 | DUI | 90.51 | 323 | Pc | 12 | 46.20 | 0.8 |
| FFC | 77.05 | 32 | iPc | 11 | 35.60 | -1.0 | KFNJ | 84.16 | 304 | P | 12 | 16.10 | 1.5 | ORO | 90.52 | 329 | P | 12 | 46.00 | 0.7 |
| | 0.9s | 37.00nm | | | | 5.4mb | SRO | 84.17 | 325 | iP | 12 | 15.60 | 1.2 | BOB | 90.54 | 328 | P | 12 | 45.50 | 0.1 |
| LRM | 77.12 | 43 | iPc | 11 | 37.90 | 0.4 | BCK | 84.17 | 311 | eP | 12 | 14.00 | -0.8 | BDI | 90.57 | 327 | P | 12 | 48.20 | 2.6 |
| | | e | 11 | 54.10 | 58km | | OUTJ | 84.25 | 304 | P | 12 | 16.40 | 1.1 | EMS | 90.61 | 330 | ePc | 12 | 46.30 | 0.4 |
| HFS | 77.21 | 336 | eP | 11 | 36.80 | -0.6 | DIM | 84.30 | 317 | eP | 12 | 17.00 | 1.8 | ACO | 90.62 | 44 | eP | 12 | 46.80 | 0.9 |
| | 0.8s | 33.10nm | | | | 5.4mb | KHL | 84.30 | 313 | eP | 12 | 14.50 | -0.9 | SDI | 90.80 | 323 | Pc | 12 | 45.80 | -0.9 |
| PRI | 77.22 | 55 | eP | 11 | 38.50 | 0.4 | JVI | 84.34 | 305 | iPc | 12 | 16.00 | 0.4 | MNS | 90.86 | 324 | P | 12 | 48.50 | 1.6 |
| BHD | 77.25 | 301 | eP | 11 | 40.00 | 1.9 | MKRJ | 84.36 | 304 | P | 12 | 17.00 | 1.2 | PII | 90.86 | 326 | Pc | 12 | 49.90 | 3.1X |
| | | e | 11 | 55.00 | 53km | | ZST | 84.47 | 326 | eP | 12 | 16.00 | 0.1 | LOR | 90.88 | 332 | eP | 12 | 46.40 | -0.5 |
| | | e | 21 | 21.00 | | | SSR | 84.49 | 321 | iPc | 12 | 28.00 | 11.8X | | 1.2s | 19.00nm | | | 5.3mb | |
| | | e | 21 | 48.00 | | | PPCY | 84.61 | 308 | eP | 12 | 18.00 | 1.1 | LSD | 91.00 | 329 | P | 12 | 48.48 | 0.7 |
| KVN | 77.39 | 52 | P | 11 | 39.40 | 0.3 | KDZ | 84.62 | 317 | iPd | 12 | 19.00 | 2.1 | LBF | 91.07 | 332 | eP | 12 | 47.30 | -0.5 |
| FRI | 77.42 | 54 | ePc | 11 | 39.00 | 0.0 | PGB | 84.74 | 318 | iPd | 12 | 19.00 | 1.5 | | 1.0s | 10.00nm | | | 5.2mb | |
| PHAM | 77.57 | 55 | P | 11 | 40.70 | 0.8 | VKA | 84.79 | 326 | ePc | 12 | 18.00 | 0.5 | LPG | 91.14 | 330 | eP | 12 | 48.40 | -0.1 |
| NAO | 77.64 | 337 | P | 11 | 39.20 | -0.6 | | 1.0s | 52.60nm | | | 5.6mb | | | 1.0s | 28.80nm | | | 5.6mb | |
| | 1.0s | 66.20nm | | | | 5.6mb | | | i | 12 | 31.50 | 46kmX | SSF | 91.19 | 332 | eP | 12 | 47.80 | -0.5 | |
| KRP | 77.96 | 153 | P | 11 | 43.40 | 1.7 | GOL | 84.96 | 45 | P | 12 | 19.20 | 0.2 | | 0.8s | 5.30nm | | | 5.0mb | |
| | 1.0s | 400.00nm | | | | 6.4mb | RZN | 85.00 | 318 | iPd | 12 | 20.00 | 1.0 | RSP | 91.20 | 329 | P | 12 | 50.22 | 1.7 |
| TNP | 78.50 | 52 | P | 11 | 45.90 | 0.7 | TIH | 85.02 | 325 | eP | 12 | 19.50 | 0.8 | CKI | 91.33 | 328 | P | 12 | 47.50 | -1.5 |
| | 1.2s | 56.45nm | | | | 5.4mb | GLD | 85.02 | 45 | P | 12 | 20.60 | 1.5 | SMF | 91.40 | 332 | eP | 12 | 49.00 | -0.3 |
| KVT | 78.62 | 312 | iP | 11 | 46.60 | 1.0 | | | pP | 12 | 39.40 | 68km | | 1.0s | 14.00nm | | | 5.3mb | | |
| ISA | 78.98 | 55 | eP | 11 | 47.00 | -0.7 | ELL | 85.04 | 311 | iP | 12 | 19.70 | 0.5 | AVF | 91.47 | 332 | eP | 12 | 49.20 | -0.4 |
| CLC | 79.49 | 54 | eP | 11 | 50.00 | -0.4 | MOX | 85.08 | 330 | ePd | 12 | 19.00 | 0.0 | | 1.0s | 14.80nm | | | 5.3mb | |
| AKU | 79.90 | 351 | iP | 11 | 57.70 | 5.8X | | 1.9s | 129.00nm | | | 5.7mb | BNI | 91.53 | 329 | P | 12 | 48.00 | -2.1 | |
| | 0.9s | 23.53nm | | | | 5.1mb | | | eP | 15 | 37.00 | | FIN | 91.53 | 328 | P | 12 | 48.28 | -1.7 | |
| SBB | 79.96 | 55 | eP | 11 | 53.00 | 0.0 | BEO | 85.19 | 322 | eP | 12 | 20.20 | 0.6 | RRL | 91.59 | 329 | P | 12 | 50.02 | -0.4 |
| PAS | 80.01 | 56 | eP | 11 | 53.00 | -0.2 | VTS | 85.24 | 319 | iPd | 12 | 21.00 | 0.9 | ROB | 91.61 | 328 | P | 12 | 49.10 | -1.3 |
| MWC | 80.05 | 56 | eP | 11 | 54.00 | 0.4 | EZN | 85.28 | 315 | eP | 12 | 21.00 | 0.9 | GRR | 91.68 | 336 | eP | 12 | 50.40 | -0.1 |
| RYD | 80.10 | 293 | eP | 11 | 54.00 | 0.2 | WIT | 85.32 | 334 | e(P) | 12 | 26.00 | 5.9X | | 1.2s | 47.60nm | | | 5.8mb | |
| DUG | 80.13 | 48 | P | 11 | 54.20 | 0.3 | KHC | 85.39 | 328 | iPd | 12 | 21.90 | 1.3 | DOI | 91.72 | 329 | P | 12 | 50.00 | -0.9 |
| GSC | 80.31 | 54 | eP | 11 | 55.00 | 0.1 | | | e | 12 | 29.70 | 25kmX | BGF | 91.86 | 332 | eP | 12 | 51.40 | 0.0 | |
| FRB | 80.43 | 13 | ePc | 11 | 54.40 | -0.4 | MMB | 85.62 | 318 | ePd | 12 | 22.00 | 0.1 | | 1.0s | 12.00nm | | | 5.3mb | |
| | 1.1s | 105.00nm | | | | 5.7mb | IZM | 85.64 | 314 | eP | 12 | 22.00 | | | | | | | | |

05d 02h

0.8s 14.70nm 5.5mb
 FRF 92.73 329 eP 12 54.60 -0.8
 1.0s 16.00nm 5.4mb
 SIO 92.92 43 eP 12 56.30 -0.2
 LRG 92.94 329 eP 12 55.90 -0.5
 0.8s 18.80nm 5.6mb
 MFF 92.95 334 eP 12 56.60 0.2
 1.0s 12.00nm 5.3mb
 LMR 92.98 328 eP 12 56.00 -0.5
 1.0s 24.00nm 5.6mb
 TUL 93.10 43 ePc 12 57.50 0.2
 1.2s 21.40nm 5.5mb
 Z 21s 0.74um 5.1msz
 LNO 93.10 43 ePc 12 56.90 -0.2
 13 15.30 65km
 RLO 93.35 42 eP 12 58.50 0.1
 RJF 93.42 333 eP 12 58.80 0.2
 1.2s 23.80nm 5.5mb
 CAF 93.52 332 eP 12 59.80 0.7
 1.2s 23.80nm 5.5mb
 LFF 94.02 333 eP 13 01.90 0.6
 1.2s 29.70nm 5.6mb
 GAC 94.70 25 eP 13 04.00 -0.4
 BNG 113.78 293 ePKPd 18 26.10 3.3X
 1.0s 10.00nm
 ic 19 15.90
 BUL 118.98 264 iPKPc 18 31.90 -0.8
 SLR 121.71 258 iPKPc 18 37.50 -0.2
 0.9s 16.81nm
 BPI 122.10 258 ePKP 18 38.00 -0.5
 0.6s 20.00nm
 FRS 125.70 255 ePKP 18 46.50 1.4
 TIC 128.66 314 PKP 18 50.20 -1.1
 KIC 128.72 314 PKP 18 51.52 0.1
 LIC 129.00 314 PKP 18 50.78 -1.1
 AIA 144.67 162 ePKP 19 18.50 -0.6
 ARE 146.39 68 iPKPc 19 21.00 -2.9X
 ATB 147.67 25 e(PKP) 19 25.00 -0.7
 ZOBO 148.85 64 PKPc 19 29.00 0.8
 Z 24s 0.23um 4.9mszx
 LPB 149.03 64 PKP 19 30.00 1.9
 0.9s 134.45nm
 i 19 34.30
 eLR 11 10.00
 CNCB 149.29 65 PKPd 19 28.00 -0.8
 i 19 35.00
 PEL 153.71 98 iPKPc 19 42.10 7.9X
 SAN 153.78 99 ePKP 19 42.80 8.5X
 S.D. = 1.1 on 308 of 340 obs.

? FEB 05, 1989 02h 06m 05.55± 8.57s
 44.100 N ± 29.1km 6.616 E ± 48.2km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 MD 1.0 (STR).
 CALN 0.40 150 Pg 06 14.02 0.2
 Sg 06 23.38
 MVIF 0.44 118 Pg 06 14.37 -0.1
 TOUF 0.46 101 Pg 06 14.84 -0.2
 Sg 06 24.44
 AURF 0.56 112 Pg 06 17.09 0.2
 AUTN 0.59 100 Pg 06 17.83 0.1
 SAOF 0.69 99 Pg 06 18.96 -0.2
 Sg 06 32.19
 S.D. = 0.3 on 6 of 6 obs.
 FEB 05, 1989 02h 08m 02.96± 0.67s
 44.178 N ± 3.2km 6.414 E ± 6.4km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.8 (LDG), 2.8 (GEN).
 FOUF 0.44 37 P 08 11.55 -0.3
 e 08 11.60
 Sg 08 16.85
 PZZ 0.59 56 P 08 14.41 -0.6
 S 08 23.28
 FRF 0.64 165 Pg 08 15.60 -0.2
 Sg 08 24.00
 STV 0.66 84 P 08 15.64 -0.5
 S 08 24.51
 DOI 0.68 61 P 08 16.50 0.0
 LRG 0.72 183 Pg 08 17.00 -0.2
 Sg 08 27.60
 RRL 0.79 19 P 08 17.54 -0.9

S 08 28.00
 SBF 0.80 113 Pg 08 18.40 -0.2
 Sg 08 29.70
 LMR 0.85 175 Pg 08 19.40 0.1
 Sg 08 31.50
 Sn 08 32.80
 BNI 0.89 12 P 08 20.10 -0.1
 ROB 1.05 83 P 08 23.12 0.3
 S 23 37.23
 IMI 1.10 104 P 08 24.89 1.3
 S 08 39.17
 RSP 1.14 31 P 08 24.20 -0.2
 S 08 38.76
 FIN 1.29 88 P 08 27.07 0.2
 S 08 42.25
 LPG 1.34 10 Pg 08 29.00 1.1
 CKI 1.36 79 P 08 15.60 -12.4X
 CVF 2.41 131 Pn 08 42.00 -1.0
 Sn 09 10.20
 S.D. = 0.7 on 16 of 17 obs.

? FEB 05, 1989 02h 10m 04.31± 3.90s
 12.160 S ± 40.3km 122.034 E ± 19.8km
 DEPTH = 33.0km (normal)
 SOUTH OF TIMOR (293)

KNA 7.45 119 eP 11 54.00 0.6
 eS 13 15.00
 MTN 8.91 95 eP 12 14.00 0.2
 eS 13 50.00
 MBL 9.19 193 eP 12 17.50 -0.2
 eS 13 54.00
 NANU 12.06 210 eP 12 56.00 -0.9
 0.3s 13.00nm 5.6mb X
 eS 15 02.00
 WB5 14.12 124 eP 13 23.10 -1.1
 WARB 14.61 163 eP 13 23.00 -7.6X
 0.3s 4.00nm 4.4mb X
 eS 15 58.00
 MEKA 14.75 192 eP 13 33.00 0.6
 eS 16 05.00
 MRWA 17.88 197 eP 14 13.00 0.8
 eS 17 16.00
 S.D. = 0.9 on 7 of 8 obs.

? FEB 05, 1989 02h 21m 59.45± 0.98s
 44.371 N ± 11.8km 7.341 E ± 10.2km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 1.8 (GEN).

STV 0.13 185 P 22 02.85 0.2
 S 22 04.90
 PZZ 0.22 308 P 22 04.18 -0.1
 S 22 07.16
 IMI 0.61 139 P 22 11.36 -0.4
 S 22 19.15
 FIN 0.64 104 P 22 12.59 0.2
 S 22 21.00
 S.D. = 0.5 on 4 of 4 obs.

FEB 05, 1989 03h 10m 00.86± 0.43s
 44.807 N ± 3.4km 7.211 E ± 4.7km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.6 (GEN), 2.5 (LDG).

DOI 0.30 175 P 10 07.00 -0.2
 eSg 10 11.10
 PZZ 0.31 195 P 10 07.20 -0.2
 S 10 11.71
 RRL 0.32 291 P 10 07.40 -0.3
 S 10 12.12
 RSP 0.35 5 P 10 08.33 0.3
 S 10 13.25
 FOUF 0.41 228 P 10 08.90 -0.4
 Sg 10 12.75
 BNI 0.45 303 P 10 09.60 -0.5
 eSg 10 15.30
 STV 0.57 172 P 10 11.09 -1.4
 S 10 19.40
 LSD 0.65 357 P 10 13.76 -0.3
 S 10 22.17
 ROB 0.70 137 P 10 13.97 -0.7
 S 10 23.91
 LPG 0.76 335 Pg 10 15.80 -0.2
 Sg 10 24.50

CKI 0.85 116 P 10 19.20 1.9
 FIN 0.93 130 P 10 18.07 -0.6
 S 10 29.65
 SBF 0.96 170 Pg 10 19.00 -0.1
 Sg 10 30.60
 IMI 1.02 151 P 10 19.20 -1.0
 S 10 31.81
 FRF 1.31 198 Pg 10 25.80 0.7
 Sg 10 42.50
 LRG 1.48 205 Pg 10 29.00 1.4
 Sg 10 48.60
 LMR 1.56 199 Pg 10 29.90 1.3
 Sg 10 50.50
 BGF 3.52 301 Pn 10 57.10 0.3
 S.D. = 0.9 on 18 of 18 obs.

FEB 05, 1989 04h 42m 57.46± 0.76s
 8.563 N ± 8.0km 82.852 W ± 7.0km
 DEPTH = 5.0km (geophysicist)
 PANAMA-COSTA RICA BORDER REGION (80)

PBC 0.23 232 iPc 43 02.60 0.4
 DVD 0.42 108 iPd 43 05.70 -0.1
 TIG 0.64 317 ePd 43 13.30 3.0X
 S 43 29.30
 CDM 1.34 318 iPc 43 23.10 0.2
 S 43 40.50
 OPS 1.52 304 ePd 43 23.70 -1.6
 S 43 48.00
 LCR2 1.63 316 iPd 43 27.60 0.5
 S 43 51.90
 IRZ2 1.74 324 iPc 43 29.40 0.6
 S 43 58.40
 SJS 1.81 319 iPc 43 30.00 0.3
 S 43 58.20
 HDC2 1.92 319 iPc 43 31.80 0.5
 S 44 01.90
 PTCR 1.98 308 iP 43 30.70 -1.4
 SRA 2.18 314 iPc 43 35.60 0.5
 S 44 03.50
 UPA 3.31 83 eP 43 55.20 4.3X
 S.D. = 0.9 on 10 of 12 obs.

FEB 05, 1989 05h 18m 47.88± 0.27s
 49.429 N ± 6.3km 155.802 E ± 4.9km
 DEPTH = 33.0km (normal)
 4.9mb (29 obs.)
 KURIL ISLANDS (221)

KUSJ 9.95 235 eP 21 09.30 -2.2X
 eS 22 55.90
 ASAJ 10.47 244 P 21 22.50 3.9X
 HOOJ 11.20 236 P 21 26.90 -1.7X
 eS 23 28.90
 MRRJ 12.41 241 eP 21 45.30 0.4
 OFUJ 14.45 230 eP 22 08.60 -3.2X
 MAT 18.15 231 eP 22 56.00 -2.9X
 INK 38.42 34 ePd 26 08.20 0.7
 ALE 46.89 6 eP 27 15.00 -1.1
 0.8s 10.00nm 4.9mb
 YKA 47.70 39 P 27 13.50 -9.2X
 EDM 53.17 49 ePc 28 04.30 -0.3
 CHG 54.48 257 iPc 28 14.90 0.4
 1.1s 28.48nm 5.2mb
 CHTO 54.48 257 iPc 28 14.80 0.3
 1.0s 22.00nm 5.1mb
 e 28 19.00
 SES 56.02 50 eP 28 25.00 -0.4
 GUN 56.56 275 P 28 29.90 0.0
 KKN 57.03 275 P 28 33.90 0.8
 PKI 57.10 275 P 28 31.80 -1.9
 DMN 57.27 275 P 28 34.80 0.0
 GKN 57.31 276 P 28 34.40 -0.6
 FFC 57.53 42 eP 28 36.00 0.0
 0.9s 16.00nm 5.1mb
 LRM 58.16 55 eP 28 41.60 0.7
 KVN 59.35 65 eP 28 49.90 0.8
 FRB 61.92 21 ePc 29 03.80 -2.2
 HYB 68.72 272 eP 29 50.00 -0.5
 ALO 68.92 61 eP 29 52.00 0.3
 0.9s 4.20nm 4.5mb
 WB5 71.58 201 eP 30 07.00 -0.6
 WRA 71.65 201 Pc 30 07.30 -0.7
 1.0s 7.70nm 4.7mb
 SIO 73.90 54 eP 30 20.80 -0.4
 TUL 74.04 53 eP 30 22.40 0.4
 0.8s 8.00nm 4.8mb

LNO 74.04 53 eP 30 21.90 0.0
 RLO 74.25 53 eP 30 23.00 -0.2
 GAC 75.28 34 eP 30 28.00 -0.9
 ASPA 75.34 201 iPc 30 30.10 0.6
 KHC 76.58 336 P 30 36.50 0.2
 KBA 78.52 335 eP 30 47.00 -0.2
 0.8s 16.20nm 5.1mb

CDF 78.82 339 eP 30 48.40 -0.4
 1.0s 8.00nm 4.7mb

RBL 79.04 334 Pd 30 49.00 -0.9
 FLN 80.08 344 eP 30 55.20 -0.2
 1.0s 16.00nm 5.0mb

GRR 80.50 344 eP 30 57.80 0.2
 1.0s 40.00nm 5.4mb

SKO 80.55 327 eP 30 58.00 0.0
 LOR 80.66 341 eP 30 58.30 -0.3
 1.0s 10.00nm 4.8mb

VAY 80.71 326 eP 30 58.50 -0.4
 LPF 80.88 344 eP 30 59.90 0.3
 1.0s 17.60nm 5.0mb

SSF 80.93 341 eP 30 59.70 -0.3
 AVF 81.23 341 eP 31 01.60 0.1
 1.0s 8.00nm 4.7mb

SMF 81.26 341 eP 31 01.70 0.0
 1.0s 12.80nm 4.9mb

LPG 81.69 339 eP 31 05.00 0.7
 1.0s 14.00nm 4.9mb

PGD 81.91 335 P 31 06.00 0.7
 MAF 81.93 342 eP 31 05.90 0.7
 1.0s 14.00nm 4.9mb

TCF 81.94 342 eP 31 05.40 0.1
 1.0s 6.00nm 4.6mb

MFF 82.10 344 eP 31 06.50 0.5
 1.0s 8.00nm 4.7mb

LSF 82.11 342 eP 31 06.40 0.3
 1.0s 10.00nm 4.8mb

RJF 83.02 342 eP 31 11.40 0.5
 1.0s 8.00nm 4.8mb

SBF 83.06 338 eP 31 10.80 -0.3
 0.8s 8.00nm 4.9mb

CAF 83.27 342 eP 31 12.90 0.7
 0.8s 6.70nm 4.8mb

LFF 83.53 342 eP 31 13.50 0.1
 0.8s 13.40nm 5.1mb

LPO 83.69 342 eP 31 14.90 0.6
 0.8s 10.70nm 5.0mb

LRG 83.70 338 eP 31 14.70 0.4
 0.8s 13.40nm 5.1mb

LMR 83.78 338 eP 31 15.00 0.3
 1.0s 17.60nm 5.2mb

CVF 83.90 336 eP 31 15.10 -0.3
 0.8s 8.00nm 4.9mb

PRNI 84.74 312 eP 31 20.00 0.2
 MBH 85.27 312 iPc 31 23.00 0.6
 EPF 85.44 342 eP 31 23.30 0.1
 1.0s 6.80nm 4.8mb

S.D. = 0.6 on 56 of 62 obs.

& FEB 05, 1989 06h 12m 23.90s
 40.287 N 121.485 W
 DEPTH = 14.0km

NORTHERN CALIFORNIA (36)
 <BRK>. ML 3.1 (BRK). Felt at
 Lassen Volcanic National Park.

MIN 0.11 302 iPc 12 26.50 -0.9
 LTCM 0.50 261 iPd 12 34.00 0.1
 ORV 0.73 181 iPd 12 36.90 -1.0

WDC 0.86 290 iPc 12 38.70 -1.3
 1.0s 12.50nm 4.8mb

LBFM 1.10 344 eP 12 44.50 0.1
 CMB 2.41 159 e(P) 13 03.70 0.2
 1.0s 13.35nm 4.8mb

BKS 2.48 194 e(P) 13 05.60 1.2
 BRK 2.48 194 e(P) 13 05.20 0.7
 KVN 2.89 114 eP 13 10.60 0.1

ARN 2.93 181 eP 13 11.70 0.7
 FRI 3.57 157 e(P) 13 20.50 0.5

11 obs. associated

& FEB 05, 1989 08h 37m 44.42s
 33.201 N 92.778 W
 DEPTH = 5.0km (geophysicist)

ARKANSAS (502)
 <TEIC>. MD 2.4 (TEIC). Felt in

parts of southeastern El Dorado.

HOGG 2.06 12 P 38 17.64 -2.5
 S 38 42.36

LGAR 2.28 50 P 38 20.84 -2.5
 OLY 2.54 25 e(P) 38 26.00 -0.9
 RLO 3.49 329 ePn 38 38.50 -1.9

LNO 3.67 318 ePn 38 54.90 11.9
 (Sn) 39 30.10
 iSg 39 44.30

TUL 3.67 318 ePn 38 54.80 11.7
 eSn 39 24.80

PWLA 4.30 64 e(P) 38 46.50 -5.4
 RSCP 6.41 66 eP 39 17.30 -4.6
 8 obs. associated

* FEB 05, 1989 09h 25m 29.14 ± 2.63s
 19.247 N ± 32.9km 64.231 W ± 7.5km
 DEPTH = 33.0km (normal)

VIRGIN ISLANDS (91)
 ML 4.4 (FDF). Felt at San Juan,
 Puerto Rico.

LPR 1.81 239 iP 25 58.00 -0.6
 CSB 2.06 243 iP 26 01.60 -0.5
 S 26 22.00

SJG 2.14 238 iP 26 02.70 -0.6
 S 26 23.00

SKDB 2.28 143 eP 26 05.38 0.1
 eS 26 33.99

BSK 2.31 145 eP 26 06.33 0.7
 eS 26 35.87

SKI 2.37 143 eP 26 05.65 -1.0
 eS 26 34.81

CPB 2.79 125 eP 26 11.18 -1.2
 MCP 2.85 254 iP 26 14.00 0.7
 S 26 30.00

MGP 2.98 246 iP 26 15.70 0.6
 S 26 32.00

ANG 3.09 132 eP 26 17.61 0.9
 eS 26 55.07

MGH 3.16 142 eP 26 18.34 0.6
 eS 26 55.83

SEG 3.84 137 ePd 26 27.51 0.2
 PAG 4.02 142 eP 26 30.40 0.4
 S 27 13.00

DEG 4.20 134 eP 26 32.00 -0.6
 MGG 4.32 140 eP 26 34.50 0.2
 BBL 4.54 144 eP 26 36.50 -0.9

S.D. = 0.7 on 16 of 16 obs.

FEB 05, 1989 10h 43m 35.75 ± 0.60s
 30.049 N ± 9.0km 90.113 E ± 5.8km
 DEPTH = 10.0km (geophysicist)

3.9mb (2 obs.)

TIBET (306)

LSA 0.97 111 iPg 43 53.60 -0.8
 Sg 44 07.60

GUN 4.28 241 P 44 43.80 1.1
 SHL 4.73 160 iP 44 50.50 1.5
 eS 46 04.50

KKN 4.80 243 P 44 49.90 -0.1
 PKI 4.81 240 P 44 50.50 0.2

DMN 5.02 242 P 44 53.00 -0.1
 GKN 5.21 248 P 44 54.20 -1.5

NDI 11.33 266 eP 46 15.50 -5.2X
 0.6s 8.67nm 5.3mb

GTA 12.28 38 eP 46 34.50 0.9
 CHTO 13.77 142 e(P) 46 52.90 -0.5

GYA 15.02 100 P 47 09.60 -0.2
 HYB 16.42 223 eP 47 30.00 2.1

GBA 20.13 218 Pd 48 10.20 -2.5
 0.8s 3.50nm 3.7mb

BJI 23.48 58 (P) 48 46.50 0.3
 MHI 26.31 292 eP 49 14.00 0.6

HFS 57.78 325 eP 53 28.20 -0.9
 0.5s 1.00nm 4.1mb

S.D. = 1.3 on 15 of 16 obs.

% FEB 05, 1989 12h 09m 53.49 ± 0.89s
 39.141 N ± 7.7km 27.628 E ± 9.0km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

IZM 0.80 201 ePg 10 08.80 -0.2

DST 0.90 59 iSg 10 20.30
 EDC 1.22 8 ePn 10 11.10 0.3

EZN 1.22 305 ePn 10 15.40 -0.7
 KCT 1.24 27 iPn 10 16.50 0.4
 1.24 27 iPn 10 16.80 0.2

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

FEB 05, 1989 13h 55m 20.40 ± 0.54s
 17.230 S ± 4.2km 70.181 W ± 5.8km

DEPTH = 131.8 ± 4.9 km
 5.1mb (37 obs.)

NEAR COAST OF PERU (115)

ARE 1.47 301 iP 55 48.20 -0.8
 i(S) 56 10.00

LPB 2.11 71 iPc 55 57.70 1.0
 iS 56 27.00
 LR 57 00.00

CNCB 2.15 79 iPc 55 58.40 1.1
 ZOBO 2.19 64 iPc 55 58.80 0.9

Z 24s 3.02um LR 56 28.00
 LR 56 21.20 1.7

CCH 3.86 93 iPc 56 21.20 1.7
 0.5s 24.00nm

HJA 7.45 144 ePd 57 05.80 -2.0
 (S) 58 29.00

CFA 14.42 173 ePd 58 33.90 -5.6X
 MDZ 15.63 176 iPc 58 54.90 0.1

PEL 15.85 182 iPc 58 55.40 -2.1
 FCH 16.03 180 ePc 58 59.00 -1.0

SAN 16.16 181 ePc 58 59.00 -2.3
 LCCH 16.22 184 iP 59 03.00 1.0

PCH 16.32 181 eP 59 05.00 1.6
 TACH 16.37 182 eP 59 04.50 0.7

CHCH 16.64 181 eP 59 08.50 1.3
 ATB 22.42 54 Pd 00 07.30 -1.6

BMA 25.04 107 eP 00 32.40 -1.6
 e 00 34.30
 e 00 44.00

SVB 31.56 17 iP 01 30.42 -2.1
 SVV 31.62 17 eP 01 31.30 -1.6

BIM 32.80 16 eP 01 41.45 -1.8
 MVM 32.88 17 eP 01 41.33 -2.6

DFD 32.99 16 eP 01 41.34 -3.5X
 RLO 58.07 336 ePc 05 01.50 -0.5

LNO 58.15 336 eP 05 02.20 -0.2
 TUL 58.15 336 eP 05 02.00 -0.5
 0.7s 36.80nm 5.5mb

SIO 58.21 335 e(P) 05 04.10 1.1
 MEO 58.35 333 iPc 05 03.00 -1.0
 0.4s 9.00nm 5.1mb

ALO 62.28 327 eP 05 31.00 0.1
 0.8s 5.78nm 4.6mb

GAC 62.82 356 ePc 05 32.60 -1.3
 LIC 68.44 76 Pc 06 08.98 -1.5

TIC 68.60 76 Pc 06 10.08 -1.4
 KIC 68.75 76 Pc 06 10.70 -1.7
 0.4s 138.00nm 6.1mb

SCH 71.81 2 eP 06 29.00 -1.2
 LEGH 72.75 78 eP 06 35.50 -1.0

KUK 72.76 78 eP 06 35.50 -1.0
 KOGH 72.84 78 eP 06 36.00 -1.1

SPA 72.88 180 iPd 06 37.20 0.6
 1.0s 25.00nm 4.9mb

SHGH 72.98 78 eP 06 37.00 -0.8
 LRM 73.50 331 eP 06 41.90 1.4

SES 76.33 334 ePc 06 57.00 0.7
 pP 07 28.00 123kmX

FFC 76.62 342 iPc 06 57.90 0.1
 0.7s 14.00nm 4.8mb

EDM 79.40 335 iPc 07 13.20 0.1
 FRB 80.72 1 eP 07 20.00 0.3

EVAL 80.75 46 iPc 07 21.30 0.8
 EHOR 81.90 46 eP 07 27.10 0.6

STS 82.29 41 eP 07 28.70 0.3
 ATEJ 82.33 48 iP 07 30.00 1.0

ALOJ 82.36 48 iPc 07 30.40 1.3
 EPLA 82.44 44 iPc 07 30.20 0.9

AAPN 82.44 47 iPc 07 30.20 0.7
 ACHM 82.55 48 iP 07 31.00 1.0
 APHE 82.58 48 iPc 07 31.00 0.8
 ASMO 82.73 47 iP 07 30.70 -0.3
 ERUA 82.92 42 eP 07 32.50 0.8
 EMON 83.34 41 iPc 07 34.80 1.0

| | | | | | | | | | | | | | |
|------|---------------|----------------|----------|--------|------------------------------------|-------------------------|-------------------|--------------|------------------------------------|-------------------------|-------------------|----------|------|
| TOL | 83.71 | 45 iPc | 07 37.00 | 1.2 | % FEB 05, 1989 15h 35m 12.34±0.66s | eS | 16 18.00 | | | | | | |
| | 1.0s | 160.00nm | | 5.8mb | 10.905 N ± 6.2km | 61.455 W ±10.0km | NANU | 12.54 194 eP | 14 20.00 | 0.0 | | | |
| | | | | | DEPTH = 33.0km (normal) | | | 0.3s | 8.00nm | 5.4mb X | | | |
| GUL | 84.00 | 44 iPc | 07 38.30 | 0.9 | TRINIDAD | (98) | | | | | | | |
| EVIA | 84.19 | 47 eP | 07 39.30 | 1.0 | | | | | | | | | |
| ETOR | 85.50 | 45 eP | 07 46.00 | 1.2 | TRN | 0.26 169 iP | 35 19.50 | -0.1 | MEKA | 16.16 181 eP | 15 08.00 | 0.6 | |
| ECHE | 85.68 | 46 eP | 07 47.00 | 1.3 | | | | | | | | | |
| YKC | 86.73 | 341 eP | 07 51.00 | 0.8 | | | | | | | | | |
| | 1.0s | 34.00nm | | 5.3mb | TCE | 0.36 235 iP | 35 21.14 | 0.2 | WARB | 17.36 156 eP | 15 17.00 | -5.5X | |
| YKA | 86.78 | 341 P | 07 51.60 | 1.2 | TPP | 0.58 180 eP | 35 23.92 | -0.2 | WB5 | 17.68 124 eP | 15 26.00 | -0.5 | |
| EPF | 88.08 | 44 eP | 07 57.80 | 0.6 | | | | | | | | | |
| | 0.8s | 14.70nm | | 5.1mb | BOT | 0.77 70 iP | 35 27.05 | 0.3 | MRWA | 18.95 188 eP | 15 45.50 | 3.5X | |
| LFF | 89.16 | 42 eP | 08 02.10 | -0.1 | | | | | | | | | |
| | 0.7s | 24.20nm | | 5.4mb | GRW | 1.26 351 eP | 35 34.18 | 0.3 | ASPA | 19.50 135 eP | 15 50.00 | 1.4 | |
| MFF | 89.33 | 40 eP | 08 02.50 | -0.4 | SVV | 2.41 6 eP | 35 49.70 | -0.6 | PSI | 23.73 302 eP | 16 33.00 | 1.8 | |
| | 1.0s | 17.60nm | | 5.1mb | | | | | | | | | |
| LPO | 89.34 | 43 eP | 08 03.10 | 0.1 | | S.D. = 0.5 on | 6 of 6 obs. | | GUN | 49.68 321 P | 20 11.60 | -0.8 | |
| | 0.8s | 13.40nm | | 5.1mb | | | | | PKI | 49.74 320 P | 20 17.30 | 4.5X | |
| LPF | 89.42 | 39 eP | 08 02.60 | -0.7 | | | | | | 0.6s | 3.00nm | 4.5mb | |
| | 1.2s | 49.90nm | | 5.5mb | ? FEB 05, 1989 15h 46m 15.63±9.39s | | | | | S.D. = 1.3 on | 9 of 12 obs. | | |
| GRR | 89.69 | 39 eP | 08 04.00 | -0.5 | | 11.755 S ±82.6km | 118.194 E ±47.3km | | | | | | |
| | 0.8s | 34.90nm | | 5.5mb | | DEPTH = 33.0km (normal) | | | | | | | |
| RJF | 89.81 | 42 eP | 08 05.00 | -0.2 | | 4.4mb (2 obs.) | | | | | | | |
| | 0.8s | 8.00nm | | 4.8mb | SOUTH OF SUMBAWA ISLAND | (291) | | | | | | | |
| CAF | 90.01 | 43 eP | 08 06.10 | -0.1 | MBL | 9.48 171 eP | 48 32.70 | -0.3 | | | | | |
| | 0.8s | 12.00nm | | 5.0mb | | | | | | | | | |
| FLN | 90.08 | 38 eP | 08 06.00 | -0.3 | NANU | 11.04 193 eP | 48 53.00 | -1.4 | | | | | |
| | 1.0s | 36.00nm | | 5.4mb | | 0.3s | 13.00nm | 5.7mb X | | | | | |
| BNG | 90.08 | 85 iPd | 08 07.10 | -0.1 | | | | | TSM | 0.33 183 iPd | 33 02.40 | 0.1 | |
| | 0.7s | 6.00nm | | 4.8mb | MEKA | 14.78 179 eP | 49 44.90 | 0.7 | | 0.6s | 5508.30nm | | |
| | | ic | 08 12.50 | | | | | | | | | | |
| LDF | 90.22 | 39 eP | 08 06.60 | -0.4 | | | | | | | | | |
| | 0.9s | 39.30nm | | 5.5mb | WARB | 16.42 152 eP | 50 01.00 | -4.2X | | | | | |
| LSF | 90.22 | 41 eP | 08 06.70 | -0.4 | | 0.2s | 6.00nm | 4.4mb | KKM | 2.38 308 eP | 33 33.00 | -0.1 | |
| | 0.8s | 11.20nm | | 5.0mb | | | | | | | | | |
| TCF | 90.67 | 41 eP | 08 08.70 | -0.5 | MRWA | 17.50 186 eP | 50 20.00 | 1.2 | PSI | 19.22 265 ePc | 37 19.90 | -0.1 | |
| | 1.0s | 8.80nm | | 4.8mb | | 0.2s | 6.00nm | 4.4mb | CHTO | 23.46 309 eP | 38 03.20 | -0.3 | |
| MAF | 90.86 | 42 eP | 08 09.90 | -0.2 | | | | | | 1.0s | 0.75nm | 3.2mb | |
| | 0.9s | 8.80nm | | 4.9mb | WB5 | 17.52 119 eP | 50 19.00 | -0.2 | WB5 | 29.09 147 eP | 38 55.70 | -0.1 | |
| BGF | 91.18 | 41 eP | 08 11.20 | -0.3 | | S.D. = 1.4 on | 5 of 6 obs. | | | | | | |
| | 0.8s | 16.10nm | | 5.2mb | | | | | | | | | |
| AVF | 91.59 | 41 eP | 08 13.00 | -0.3 | FEB 05, 1989 16h 59m 44.49±1.28s | | | | | | | | |
| | 0.8s | 6.70nm | | 4.9mb | 44.955 N ± 5.6km | 6.690 E ±12.7km | | | | | | | |
| EKA | 91.63 | 32 P | 08 13.00 | -0.3 | DEPTH = 10.0km (geophysicist) | | | | | | | | |
| | 1.1s | 18.80nm | | 5.2mb | FRANCE | (538) | | | | | | | |
| SSF | 91.80 | 41 eP | 08 13.40 | -0.9 | ML 1.9 (GEN). | | | | | | | | |
| SMF | 91.84 | 42 eP | 08 14.50 | 0.0 | | | | | | | | | |
| | 0.8s | 12.00nm | | 5.1mb | RRL | 0.08 118 P | 59 47.13 | 0.0 | ? FEB 05, 1989 18h 53m 33.63±3.90s | | | | |
| LBF | 92.06 | 41 eP | 08 15.10 | -0.5 | | | | | | | | | |
| BUL | 92.09 | 112 iPd | 08 16.90 | 0.4 | BNI | 0.10 354 Pc | 59 47.20 | -0.1 | | 6.507 S ±30.3km | 149.545 E ±28.3km | | |
| LOR | 92.10 | 41 eP | 08 14.90 | -0.8 | | | | | | DEPTH = 33.0km (normal) | | | |
| | 0.8s | 5.30nm | | 4.8mb | RSP | 0.45 64 P | 59 53.53 | -0.1 | | 3.8mb (1 obs.) | | | |
| LRG | 92.28 | 45 eP | 08 17.20 | 0.6 | | | | | | | | | |
| | 0.8s | 10.70nm | | 5.1mb | PZZ | 0.54 147 P | 59 55.28 | -0.1 | NEW BRITAIN REGION | (192) | | | |
| LMR | 92.34 | 45 eP | 08 17.30 | 0.4 | | | | | | | | | |
| | 0.8s | 8.00nm | | 5.0mb | LSD | 0.60 33 P | 59 57.01 | 0.2 | LAT | 2.53 267 eP | 54 14.00 | 0.7 | |
| FRF | 92.51 | 45 eP | 08 18.10 | 0.4 | | | | | | | | | |
| | 1.0s | 12.00nm | | 5.1mb | STV | 0.84 147 P | 00 00.99 | 0.2 | LMG | 2.76 210 iPd | 54 16.50 | -0.1 | |
| SBF | 93.15 | 45 eP | 08 20.90 | 0.2 | | | | | | 0.7s | 57.53nm | | |
| | 0.8s | 9.10nm | | 5.1mb | | S.D. = 0.2 on | 6 of 6 obs. | | PMG | 3.73 219 iPd | 54 31.00 | 0.7 | |
| LPG | 93.28 | 43 eP | 08 22.40 | 0.8 | % FEB 05, 1989 17h 22m 09.75±0.70s | | | | | | | | |
| | 1.0s | 20.80nm | | 5.4mb | 40.377 N ± 6.7km | 29.192 E ± 5.5km | | | WB5 | 19.85 227 eP | 58 03.90 | -1.0 | |
| DOU | 93.64 | 39 Pc | 08 23.00 | 0.3 | DEPTH = 10.0km (geophysicist) | | | | | RMQ | 19.89 182 eP | 58 06.00 | 0.8 |
| CVF | 93.69 | 47 eP | 08 23.10 | 0.0 | TURKEY | (366) | | | | WRA | 19.91 226 Pd | 58 04.50 | -1.0 |
| | 0.8s | 5.30nm | | 4.9mb | | | | | | | | | |
| BSF | 94.15 | 41 eP | 08 24.90 | -0.4 | YLV | 0.23 36 iPg | 22 14.60 | -0.2 | ASPA | 22.74 220 eP | 58 49.40 | 15.2X | |
| | 0.8s | 5.30nm | | 4.9mb | HRT | 0.57 39 ePg | 22 20.10 | -1.3 | | S.D. = 1.1 on | 6 of 7 obs. | | |
| CDF | 94.66 | 41 eP | 08 27.30 | -0.3 | KCT | 0.65 259 iPg | 22 22.60 | -0.2 | | | | | |
| | 0.6s | 5.40nm | | 5.1mb | ISK | 0.70 352 iPg | 22 23.10 | -0.4 | FEB 05, 1989 20h 21m 53.25±0.99s | | | | |
| INK | 96.54 | 340 eP | 08 36.50 | 0.9 | | | | | | 7.329 S ± 7.0km | 121.626 E ± 8.6km | | |
| GRF | 97.53 | 40 e(P) | 08 42.60 | 2.1 | GPA | 0.86 96 ePg | 22 27.40 | 1.1 | | DEPTH = 506.5 ± 14.7 km | | | |
| | 0.8s | 15.00nm | | 5.5mb | DST | 0.88 210 iPg | 22 26.20 | -0.6 | | 5.0mb (12 obs.) | | | |
| GRB3 | 97.79 | 41 e(P) | 08 42.60 | 1.0 | CTT | 0.96 323 ePg | 22 27.90 | -0.2 | FLORES SEA | (279) | | | |
| | 0.8s | 15.00nm | | 5.6mb | | | | | | | | | |
| MBC | 97.83 | 349 eP | 08 31.00 | -10.3X | BNT | 0.97 269 iPn | 22 28.60 | 0.4 | MTN | 10.84 121 eP | 24 20.00 | -0.7 | |
| NDI | 147.99 | 63 ePKP | 14 50.50 | 1.6 | EDC | 1.02 269 iPn | 22 28.40 | -0.6 | | | | | |
| MAT | 148.39 | 313 ePKP | 14 54.00 | 4.6X | DMK | 1.81 324 ePn | 22 43.00 | 1.9 | KNA | 10.91 141 iPc | 24 20.90 | -0.4 | |
| | 1.0s | 16.00nm | | | | S.D. = 1.0 on | 10 of 10 obs. | | | 0.4s | 55.00nm | 5.3mb | |
| GBA | 148.60 | 92 PKPd | 14 50.90 | 0.7 | | | | | | | | | |
| | 0.7s | 15.60nm | | | | | | | | | | | |
| HYB | 150.17 | 85 iPKPc | 14 58.20 | 5.6X | ? FEB 05, 1989 18h 11m 21.01±0.77s | | | | | | | | |
| | 0.8s | 30.80nm | | | 10.368 S ±10.5km | 118.877 E ±10.9km | | | | | | | |
| GKN | 154.45 | 61 PKP | 15 08.20 | 9.5X | DEPTH = 33.0km (normal) | | | | | | | | |
| DMN | 154.97 | 61 PKP | 15 09.80 | 10.3X | 4.3mb (2 obs.) | | | | | | | | |
| KKN | 155.06 | 61 PKP | 15 09.40 | 9.9X | SOUTH OF SUMBAWA ISLAND | (291) | | | | | | | |
| GUN | 155.52 | 60 PKP | 15 10.90 | 10.5X | MBL | 10.77 175 eP | 13 55.00 | -1.1 | WB5 | 17.56 137 iPc | 25 29.40 | 0.4 | |
| | S.D. = 1.0 on | 96 of 105 obs. | | | | | | | | | | | |
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05d 20h

QIS 21.82 129 iPc 26 08.90 -0.3
eS 29 36.00
MRWA 22.41 193 iPd 26 14.80 0.2
COOL 23.44 181 eP 26 23.00 -0.9
BAL 23.61 191 eP 26 25.00 -0.4
FORR 24.17 166 iPc 26 29.70 -0.7
0.4s 39.00nm 5.3mb
KLB 24.41 188 eP 26 32.00 -0.6
STK 30.71 145 iPc 27 28.10 0.4
0.4s 26.00nm 5.1mb
CHG 34.28 320 eP 27 59.00 1.0
CHTO 34.28 320 eP 27 59.00 1.1
0.5s 2.93nm 4.1mb
GBA 48.55 295 Pd 29 49.60 -2.1
1.1s 4.80nm 3.9mb X
GUN 49.20 317 Pd 29 57.00 0.1
PKI 49.30 316 Pd 29 57.30 -0.4
0.5s 25.00nm 4.9mb
KKN 49.53 316 Pd 29 58.90 -0.3
0.6s 21.00nm 4.8mb
DMN 49.53 316 Pd 29 59.10 -0.2
0.6s 17.00nm 4.7mb
GKN 50.10 316 Pd 30 03.20 -0.1
0.5s 26.00nm 4.9mb
YKA 111.61 25 PKP 39 31.20 0.6
KIC 126.77 272 PKP 40 01.00 -0.3
LIC 127.04 272 PKP 40 02.00 0.2
TIC 127.06 273 PKP 40 02.00 0.2
S.D. = 0.8 on 27 of 28 obs.

* FEB 05, 1989 21h 10m 35.01±0.89s
35.405 N ± 7.6km 30.962 E ± 13.0km
DEPTH = 10.0km (geophysicist)
EASTERN MEDITERRANEAN SEA (371)

PPCY 1.25 114 eP 10 59.00 0.9
ELL 1.59 328 ePn 11 07.20 3.8X
CSS 1.99 102 eP 11 08.50 -0.6
BCK 2.07 352 iPn 11 09.00 -1.3
FAM 2.52 98 eP 11 23.50 6.8X
KHL 3.13 339 ePn 11 26.00 0.6
HRI 4.49 117 e(P) 11 51.00 6.3X
BBTK 4.65 17 eP 11 48.00 0.9
KOT 5.51 172 iP 12 00.00 1.0
S 13 01.00
PRNI 6.08 145 eP 12 06.50 -0.6
MBH 6.52 148 iPc 12 12.50 -0.8
eS 13 26.00
S.D. = 1.1 on 8 of 11 obs.

? FEB 05, 1989 21h 11m 09.98±7.48s
44.975 N ± 7.7km 6.746 E ± 98.2km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.2 (GEN).

RRL 0.06 153 P 11 12.34 -0.1
S 11 13.64
PZZ 0.53 152 P 11 20.47 -0.4
S 11 27.76
LSD 0.56 31 P 11 21.62 0.0
S 11 26.39
STV 0.84 150 P 11 26.72 0.5
S 11 37.99
S.D. = 0.6 on 4 of 4 obs.

& FEB 05, 1989 21h 51m 12.60s
32.490 N 114.630 W
DEPTH = 0.0km (geophysicist)
W. ARIZ. - MEXICO BORDER REGION (46)
<PAS-P>. ML 3.2 (PAS).

GLA 0.58 344 iPc 51 24.00 -0.3
PLM 2.07 295 eP 51 47.00 -2.2
2 obs. associated

& FEB 05, 1989 22h 05m 15.90s
32.400 N 114.600 W
DEPTH = 6.0km (geophysicist)
W. ARIZ. - MEXICO BORDER REGION (46)
<PAS-P>. ML 3.2 (PAS).

GLA 0.68 344 iPd 05 28.40 -1.1
PLM 2.13 297 eP 05 58.90 6.3
2 obs. associated

FEB 05, 1989 22h 24m 33.05±0.41s

35.412 N ± 4.7km 136.762 E ± 4.0km
DEPTH = 10.0km (geophysicist)
SOUTHERN HONSHU, JAPAN (232)
MG 3.8 (JMA). Felt (111 JMA) at
Gifu; (1 JMA) at Nagoya and Tsu.

GIF 0.01 169 iP+ 24 34.20 -0.7
iS 24 35.50
NAG 0.30 146 P 24 39.00 -0.3
S 24 43.50
TSRJ 0.65 281 iPd 24 45.40 -0.6
S 24 54.20
TSU 0.74 196 eP 24 48.00 0.5
iS 24 56.90
IIDJ 0.94 86 iP+ 24 50.30 -0.7
S 25 02.80
MTMJ 1.44 36 P 24 59.50 0.2
WKYJ 1.53 219 P 25 00.40 -0.1
eS 25 21.50
MAT 1.63 46 iPc 25 01.90 0.0
iS 25 23.90
CHJJ 1.92 70 P 25 07.00 0.8
S 25 31.60
NIJ 2.57 44 P 25 14.70 -0.7
TKSJ 2.65 238 P 25 17.20 0.6
eS 25 48.50
YONJ 2.71 266 P 25 17.40 0.0
S 25 56.70
KAKJ 2.88 73 P 25 20.50 0.7
S 25 58.90
S.D. = 0.6 on 13 of 13 obs.

% FEB 05, 1989 22h 38m 58.60±1.09s
16.191 N ± 12.0km 61.151 W ± 12.2km
DEPTH = 33.0km (normal)

LEEWARD ISLANDS (92)
ML 2.2 (FDF).

SFG 0.08 325 eP 39 05.10 0.9
DEG 0.15 36 iPc 39 04.15 -0.6
S 39 10.50
MGG 0.31 210 ePc 39 06.73 0.2
S 39 15.40
SEG 0.40 302 eP 39 07.65 -0.1
S 39 16.00
DOG 0.48 251 eP 39 08.78 -0.1
PAG 0.53 253 eP 39 09.30 -0.5
S 39 19.80
S.D. = 0.7 on 6 of 6 obs.

* FEB 05, 1989 22h 53m 04.12±0.85s
39.320 N ± 15.7km 72.032 E ± 12.2km
DEPTH = 33.0km (normal)
4.1mb (1 obs.)
KIRGHIZ SSR (716)

MHI 10.37 257 eP 55 34.00 0.3
eS 57 36.00
GKN 15.39 133 P 56 41.00 0.3
KKN 15.92 132 P 56 47.00 -0.5
HFS 41.40 320 ePKP 00 47.50 -1.0
0.4s 1.60nm 4.1mb
MBC 64.49 3 eP 03 40.00 0.9
YKA 78.39 3 P 05 05.40 3.0X
S.D. = 1.1 on 5 of 6 obs.

? FEB 05, 1989 22h 58m 30.41±1.50s
44.957 N ± 7.9km 6.702 E ± 13.8km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.2 (GEN).

BNI 0.10 349 P 58 33.30 0.1
eSg 58 35.00
RSP 0.44 63 P 58 39.50 0.1
S 58 45.03
PZZ 0.53 148 P 58 41.24 0.0
S 58 48.83
LSD 0.59 32 P 58 42.47 -0.1
S 58 50.06
S.D. = 0.2 on 4 of 4 obs.

? FEB 05, 1989 23h 25m 17.62±4.97s
5.283 N ± 42.5km 82.738 W ± 9.8km
DEPTH = 10.0km (geophysicist)
SOUTH OF PANAMA (83)

IDC 3.59 342 ePd 26 14.30 -0.1
S 26 55.20
CTCR 3.59 360 eP 26 14.50 -0.2
TIG 3.77 352 ePd 26 17.40 0.3
S 26 59.80
QPS 4.32 341 iPd 26 24.40 -0.5
S 27 12.80
BUS 4.36 347 iPd 26 25.90 0.0
CDM 4.36 347 eP 26 25.80 -0.1
S 27 14.50
OCR 4.37 341 iPc 26 24.90 -0.6
LCR2 4.60 344 iPd 26 29.10 0.0
PTCR 4.78 340 eP 26 31.90 0.3
S 27 24.80
ICR 4.79 347 iPc 26 32.80 0.8
IRZ2 4.79 346 eP 26 32.20 0.2
S 27 25.20
SJS 4.81 344 eP 26 31.50 -0.4
UPA 4.86 41 eP 26 32.50 0.0
HDC2 4.91 344 eP 26 33.40 0.0
CAO 4.98 332 iPd 26 34.10 -0.1
S 27 30.30
EPA 5.02 339 ePc 26 34.90 0.0
S 27 31.00
SRA 5.06 341 iPc 26 35.60 0.1
JUD 5.59 330 ePc 26 43.20 0.2
S 27 44.80
S.D. = 0.3 on 18 of 18 obs.

* FEB 05, 1989 23h 34m 53.22±1.05s
14.572 N ± 20.2km 92.085 W ± 9.9km
DEPTH = 70.6 ± 7.5 km
3.8mb (1 obs.)
NEAR COAST OF CHIAPAS, MEXICO (69)

OC2 0.10 263 iP+ 35 02.80 -1.9
TPX 0.37 333 iPc 35 06.50 1.4
KKG 0.40 7 iP+ 35 04.90 -0.6
JAT 0.50 120 iPd 35 05.80 -0.5
SOG2 0.52 74 eP+ 35 05.80 -0.8
SOG 0.52 67 ePd 35 06.50 -0.4
ITG 1.20 89 iP+ 35 15.75 0.9
FUG 1.21 96 iP+ 35 14.50 -0.4
MMG 1.36 91 iP+ 35 18.25 1.3
TER 1.38 101 ePd 35 16.50 -0.6
S 35 27.50
PCG 1.40 98 iP+ 35 18.10 0.5
BVA 1.40 86 iP+ 35 18.70 1.1
GCG 1.50 89 iPd 35 18.20 -0.6
S 35 40.50
REC 1.52 95 iPd 35 20.00 1.0
IXG 1.63 104 iPd 35 20.25 -0.3
SLP 1.75 84 iPd 35 22.40 0.2
S 35 36.75
SCX 2.22 346 eP 35 35.00 6.6X
OXX 5.11 300 iP 36 11.00 1.7
IISM 6.71 312 eP 36 35.00 3.8X
MEO 20.96 345 eP 39 31.00 -1.5
0.7s 3.60nm 3.8mb
TUL 21.51 352 e(P) 39 53.00 15.0X
1.1s 5.00nm
KVN 33.45 322 e(P) 41 30.20 2.5
YKA 50.45 347 P 43 45.10 -0.4
INK 59.87 343 eP 44 51.00 -2.5
S.D. = 1.3 on 21 of 24 obs.

FEB 06, 1989 00h 15m 11.79±0.52s
44.312 N ± 3.6km 6.835 E ± 5.0km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.7 (GEN).

FOUF 0.22 350 P 15 16.30 -0.2
Sg 15 19.70
PZZ 0.27 45 P 15 17.91 0.3
S 15 22.54
STV 0.36 101 P 15 19.19 0.0
S 15 24.39
RRL 0.61 357 P 15 23.55 -0.7
S 15 32.59
SBF 0.62 136 Pg 15 23.80 -0.6
Sg 15 31.90
ROB 0.74 91 P 15 26.60 0.2
S 15 36.64
FRF 0.76 190 Pg 15 25.60 -1.1
IMI 0.86 118 P 15 28.19 -0.2
S 15 39.77

06d 00h

RSP 0.89 20 P 15 29.52 0.6
S 15 41.10
LRG 0.92 202 Pg 15 30.50 1.1
Sg 15 42.50
FIN 0.99 95 P 15 30.78 0.2
S 15 43.05
LMR 1.01 194 Pg 15 31.30 0.5
Sg 15 44.30

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

FEB 06, 1989 00h 40m 40.19± 1.50s
2.833 S ± 6.8km 129.995 E ± 8.7km
DEPTH = 39.9 ± 15.4 km
5.1mb (8 obs.) 4.0Msz (1 obs.)
CERAM (272)

AAI 1.99 245 ePd 41 12.60 0.6
eS 42 24.50
MTN 10.01 174 eP 43 08.00 3.4X
eS 44 56.00
DAV 10.80 336 eP 43 15.60 0.2
KNA 12.89 185 eP 43 42.00 -1.5
WB5 17.47 166 eP 44 42.90 0.2
eS 48 04.80
WRA 17.53 166 Pd 44 42.50 -0.9
0.7s 8.70nm 4.0mb
QIS 19.95 153 eP 45 13.70 1.7
eS 48 46.00
ASPA 21.05 170 iPc 45 24.40 1.1
Z 20s 0.61um 4.0Msz

iS 49 18.70
LR 55 12.40
GUA 21.99 42 eP 45 41.50 8.8X
GUMO 22.00 42 eP 45 31.80 -1.0
PJG 22.00 42 eP 45 32.30 -0.5
WARB 23.44 188 eP 45 42.00 -4.9X
0.4s 4.00nm 4.3mb
PPI 29.68 274 eP 46 45.50 0.7
IPM 29.87 284 ePd 46 47.00 0.5
PSI 31.54 280 ePc 46 59.80 -1.4
WHN 36.39 337 eP 47 44.50 1.7
GYA 36.83 324 P 47 47.80 1.1
CHG 37.36 306 iPd 47 52.60 1.5
1.0s 20.50nm 5.0mb

CHTO 37.36 306 iPc 47 51.60 0.5
KMI 38.36 318 Pc 48 01.50 1.8
sP 48 17.00
TIY 43.51 340 eP 48 41.70 0.0
BJI 44.51 345 eP 48 48.50 -1.1
LZH 45.78 330 eP 49 00.00 0.0
1.5s 0.03nm 2.0mb X
GUN 52.28 309 P 49 50.10 -0.6
0.8s 42.00nm 5.5mb

PKI 52.49 308 P 49 51.70 -0.5
KKN 52.70 308 P 49 52.90 -0.7
0.9s 36.00nm 5.4mb
DMN 52.75 308 P 49 53.60 -0.4
0.9s 48.00nm 5.5mb
GKN 53.30 308 P 49 57.30 -0.6
0.9s 50.00nm 5.5mb

KOD 53.88 285 eP 50 02.00 -0.5
HYB 54.57 294 eP 50 05.50 -1.7
GBA 54.63 289 Pc 50 05.00 -2.6
0.9s 5.90nm 4.6mb
WMO 59.94 326 iPd 50 45.00 0.1
MHI 76.09 308 eP 52 27.00 1.1
AVY 81.77 251 eP 52 58.40 1.3
INK 95.02 22 eP 54 03.00 3.4X
MBC 97.58 13 eP 54 14.00 2.8X
CNCB 153.62 138 PKP 00 43.00 13.2X
LPB 153.74 138 (PKP) 00 49.00 19.2X
ZOBO 153.90 137 PKP 00 35.70 5.5X

S.D. = 1.2 on 31 of 39 obs.

? FEB 06, 1989 00h 49m 10.95± 7.46s
20.995 N ± 78.9km 108.186 W ± 19.9km
DEPTH = 10.0km (geophysicist)
4.2mb (4 obs.)

REVILLA GIGEDO ISLANDS REGION (53)
MZX 2.74 36 iPc 49 53.00 -2.7
ALQ 13.98 6 eP 52 32.00 0.5
1.7s 32.69nm 4.9mb
MEQ 16.13 30 e(P) 53 01.30 1.9
0.8s 2.10nm 3.3mb
SIO 18.01 33 e(P) 53 23.40 0.4
TUL 18.40 34 eP 53 27.90 0.1

1.6s 51.10nm 4.4mb
LNO 18.40 34 eP 53 27.90 0.2
PCO 18.44 30 eP 53 28.40 0.1
0.8s 8.30nm 4.0mb
RLO 19.00 34 eP 53 35.00 -0.1
KVN 19.91 337 e(P) 53 44.20 -1.7
LRM 25.01 353 eP 54 37.90 1.3
S.D. = 1.5 on 10 of 10 obs.

& FEB 06, 1989 01h 25m 52.70s
48.418 N 122.214 W
DEPTH = 0.0km
WASHINGTON (29)
<SEA>. ML 3.8 (SEA). Felt (V) at
Clearlake and (IV) at Arlington,
Mount Vernon and Sedro Woolley.

CMW 0.06 85 iPc 25 54.29 0.3
OHW 0.23 246 iPc 25 57.12 -0.2
eS 26 01.26
JCW 0.29 140 iPd 25 58.28 -0.3
RPW 0.47 86 iPd 26 01.66 -0.4
BLH 0.59 168 iPd 26 04.29 -0.3
eS 26 13.16
VDB 0.61 7 iPd 26 04.45 -0.5
PGW 0.65 204 iP 26 05.80 0.1
BLN 0.65 231 iP 26 04.76 -1.0
HTW 0.68 154 iPd 26 05.43 -0.9
SNB 0.73 300 eP 26 06.17 -1.1
eS 26 17.00
VGZ 0.74 270 eP 26 05.68 -1.8
eS 26 15.88

PGC 0.85 286 eP 26 08.00 -1.8
SPW 0.87 181 eP 26 09.80 -0.2
HNB 0.89 344 ePd 26 08.58 -1.9
GMW 0.95 204 iPc 26 09.73 -2.0
HDW 0.95 217 iPc 26 09.58 -2.2
RMW 1.00 164 eP 26 11.22 -1.4
STW 1.01 255 iP 26 10.49 -2.2
OSD 1.16 240 iP 26 13.68 -1.8
BIB 1.22 324 eP 26 14.07 -2.3
GSM 1.25 167 eP 26 15.29 -1.6
MEW 1.25 194 eP 26 15.55 -1.3
NLW 1.30 104 eP 26 16.52 -1.3
OBC 1.30 254 eP 26 15.58 -2.2
SMW 1.34 215 eP 26 16.15 -2.2
GHW 1.38 182 eP 26 17.01 -2.0
WPB 1.40 333 ePd 26 16.97 -2.5
eS 26 35.58

LON 1.69 171 eP 26 22.50 -1.2
PNT 1.94 61 eP 26 26.70 -0.5
BMW 2.06 200 eP 26 27.70 -1.4
SHW 2.23 180 eP 26 31.00 -0.6
DPW 2.74 100 eP 26 37.40 -1.4
VGB 3.07 161 eP 26 43.30 -0.1
YKA 14.74 14 P 29 27.40 3.4
34 obs. associated

* FEB 06, 1989 02h 50m 47.54± 1.83s
37.286 N ± 17.8km 20.438 E ± 8.6km
DEPTH = 29.9 ± 5.7 km
IONIAN SEA (399)

VLS 0.90 8 ePg 51 03.60 -0.4
KZN 3.19 19 ePn 51 38.10 1.2
LIT 3.24 29 eP 51 37.80 0.3
OHR 3.83 4 iPn 51 46.90 1.0
PLG 3.88 36 ePn 51 46.50 0.0
THE 3.88 30 eP 51 46.80 0.3
GRG 3.97 22 eP 51 47.70 -0.2
ATN 4.04 284 P 51 49.70 0.8
eSn 52 33.50
SOH 4.20 32 eP 51 51.50 0.4
KNT 4.32 26 eP 51 53.00 0.2
VAY 4.36 22 ePn 51 53.20 -0.1
MEU 4.40 269 P 51 53.70 -0.4
eSn 52 42.20

SRS 4.54 32 eP 51 55.70 -0.3
MNO 4.61 280 P 52 46.70 49.6X
SKO 4.74 9 iPn 51 57.80 -1.0
MGR 4.76 308 P 51 59.80 0.7
eSn 52 52.50
SDI 6.76 313 P 52 26.70 -0.6
S.D. = 0.7 on 16 of 17 obs.

FEB 06, 1989 03h 10m 52.10± 0.88s
39.341 N ± 6.7km 26.010 E ± 6.5km

DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.4 (ATH).

PRK 0.22 115 iPg 10 57.70 0.8
eSg 11 01.00
EZN 0.54 27 iPg 11 03.20 0.1
IZM 1.36 134 iPn 11 16.80 -0.3
EDC 1.74 54 iPn 11 22.40 -0.2
BNT 1.79 55 iPn 11 24.30 1.1
KCT 2.02 63 iPn 11 26.30 -0.3
DST 2.04 82 iPn 11 26.40 -0.6
PLG 2.23 298 ePb 11 35.90 6.3X
KDZ 2.35 349 iP 11 31.00 -0.4
RZN 2.54 338 eP 11 34.00 -0.2
CTT 2.59 45 iPn 11 34.80 0.1
DMK 2.81 28 ePn 11 37.40 -0.5
MMB 2.84 323 eP 11 38.00 -0.4
YLV 2.86 64 ePn 11 39.00 0.3
ISK 2.90 53 ePn 11 38.00 -1.2
PLD 2.93 341 eP 12 27.00 47.4X
HRT 3.17 61 ePn 11 43.00 0.0
VAY 3.29 308 ePn 11 55.50 10.8X
PVL 3.91 353 eP 11 55.00 1.6

S.D. = 0.7 on 16 of 19 obs.

? FEB 06, 1989 03h 18m 32.70± 10.30s
17.985 N ± 17.9km 65.526 W ± 75.6km
DEPTH = 10.0km (geophysicist)
PUERTO RICO REGION (90)

LPR 0.46 315 P 18 42.10 0.0
SJG 0.61 282 iP 18 45.00 0.0
S 18 54.80
CSB 0.67 297 P 18 46.00 -0.1
MGP 1.49 271 P 18 59.50 0.0
MCP 1.57 286 P 19 00.60 0.0
S.D. = 0.1 on 5 of 5 obs.

? FEB 06, 1989 03h 27m 43.34± 9.99s
29.436 S ± 70.4km 71.697 W ± 48.3km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)

RTRS 2.08 111 ePd 28 16.50 0.0
RTCB 3.23 130 ePc 28 33.10 0.1
S 29 08.00
RTLL 3.37 125 ePc 28 34.80 -0.1
JACH 3.37 164 eP 28 35.50 0.4
iS 29 12.50
RTCV 3.64 132 ePc 28 39.30 0.5
CFA 3.69 127 ePc 28 39.10 -0.3
PEL 3.80 167 eP 28 40.00 -1.0
iS 29 30.10
LNV 4.51 177 eP 28 51.50 0.4

S.D. = 0.6 on 8 of 8 obs.

* FEB 06, 1989 04h 46m 30.78± 1.08s
34.884 N ± 10.9km 26.801 E ± 9.8km
DEPTH = 10.0km (geophysicist)
CRETE (370)

KAP 0.73 25 iPnd 46 44.10 -1.1
ARG 1.71 39 ePb 47 02.90 2.1X
VAM 2.19 284 ePn 47 08.00 0.2
KSL 2.58 61 ePn 47 14.40 1.1
ELL 3.14 53 eP 47 21.70 0.4
BCK 4.00 49 eP 47 31.00 -2.5X
PRNI 8.26 121 eP 48 32.00 -1.5
MBH 8.53 124 eP 48 38.00 0.9
eS 50 12.00

S.D. = 1.4 on 6 of 8 obs.

? FEB 06, 1989 05h 00m 48.32± 4.97s
43.465 N ± 30.2km 6.142 E ± 25.5km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)

STV 1.16 47 P 01 10.07 0.1
S 01 30.99
FOUF 1.16 23 P 01 09.40 -0.6
Sg 01 27.75
PZZ 1.25 33 P 01 11.50 -0.1
S 01 32.83
DOI 1.31 37 P 01 12.80 0.2
eSn 01 35.00
IMI 1.34 70 P 01 14.17 1.1

ROB 1.50 56 P S 01 36.93 0.5
 S 01 15.81 0.5
 RRL 1.53 17 P S 01 39.86
 S 01 15.61 -0.3
 S 01 38.93
 BNI 1.63 13 P S 01 17.00 -0.3
 eSn 01 42.00
 FIN 1.67 63 P S 01 18.27 0.5
 S 01 43.71
 CKI 1.82 57 P S 01 17.00 -2.9
 (Sn) 01 50.00
 RSP 1.87 25 P S 01 21.55 0.9
 S 01 49.71
 LSD 2.12 20 P S 01 25.39 0.9
 S.D. = 1.2 on 12 of 12 obs.

FEB 06, 1989 05h 10m 48.33±0.42s
 42.280 N ± 7.0km 142.367 E ± 7.6km
 DEPTH = 10.0km (geophysicist)
 4.8mb (15 obs.)
 HOKKAIDO, JAPAN REGION (224)
 Felt (II JMA) at Hiroo.

HOO 0.70 89 P 11 00.00 -2.2
 MRRJ 0.97 279 iPd 11 13.80 7.0X
 eS 11 28.20
 ASAJ 1.85 6 P 11 30.60 10.3X
 eS 11 56.80
 YAMJ 4.47 204 eP 11 58.00 0.3
 MAT 6.57 211 eP 12 27.00 -0.4
 eS 13 47.00
 CHJJ 6.75 204 P 12 31.10 1.2
 TSRJ 8.37 219 eP 12 54.50 2.0
 MDJ 9.58 288 eP 13 15.50 6.2X
 BJI 19.82 272 eP 15 19.00 -2.9X
 TIY 23.32 269 eP 15 55.40 -1.9
 GTA 32.08 279 eP 17 17.10 -0.5
 WMO 39.37 291 eP 18 20.00 0.4
 CHG 43.50 251 eP 18 54.00 0.4
 CHTO 43.50 251 eP 18 53.10 -0.5
 0.7s 2.38nm 4.1mb
 GUN 47.57 271 P 19 25.90 -0.5
 KKN 48.08 272 P 19 29.60 -0.7
 0.7s 20.00nm 5.3mb
 PKI 48.10 271 P 19 29.60 -1.0
 DMN 48.31 272 P 19 31.40 -0.7
 GKN 48.44 272 P 19 32.10 -0.9
 0.5s 10.00nm 5.1mb
 INK 49.42 29 eP 19 41.00 1.3
 MBC 51.30 18 eP 19 55.00 1.0
 YKA 58.94 32 P 20 50.70 1.1
 GBA 62.46 263 P 21 12.00 -2.2
 SUF 63.65 333 iP 21 21.30 -0.1
 0.4s 2.40nm 4.7mb
 NUR 65.69 331 iP 21 34.50 -0.1
 FFC 68.93 34 eP 21 56.00 0.8
 0.8s 11.00nm 5.1mb
 HFS 69.62 335 eP 21 58.50 -0.8
 0.4s 3.20nm 4.8mb
 NAO 69.93 337 P 22 01.20 0.0
 0.5s 1.90nm 4.5mb
 FRB 71.51 14 eP 22 08.00 -2.7
 KHC 78.46 328 P 22 52.00 1.2
 BSF 82.06 332 eP 23 10.10 0.1
 LOR 83.56 333 eP 23 17.90 0.2
 0.8s 5.30nm 4.8mb
 LBF 83.76 333 eP 23 19.10 0.3
 0.6s 1.80nm 4.5mb
 SSF 83.86 333 eP 23 19.60 0.4
 0.6s 1.80nm 4.5mb
 LPG 84.06 330 eP 23 21.40 0.8
 0.8s 3.20nm 4.6mb
 AVF 84.14 333 eP 23 21.00 0.4
 0.6s 4.80nm 4.9mb
 MAF 84.90 333 eP 23 25.10 0.6
 1.0s 8.00nm 4.9mb
 CAF 86.21 333 eP 23 32.40 1.3
 0.6s 4.50nm 4.8mb
 LPO 86.72 333 eP 23 34.80 1.3
 0.8s 5.30nm 4.8mb
 S.D. = 1.1 on 35 of 39 obs.

% FEB 06, 1989 05h 30m 56.71±0.76s
 41.622 N ± 10.9km 142.797 E ± 21.3km
 DEPTH = 33.0km (normal)
 HOKKAIDO, JAPAN REGION (224)
 MG 4.5 (JMA). Felt (II JMA) at

Urakawa.
 URA 0.54 359 iP+ 31 07.90 0.1
 iS 31 17.70
 HOOJ 0.84 25 iP+ 31 12.60 0.5
 S 31 25.70
 KUSJ 2.05 43 P 31 28.90 -0.5
 OFUJ 2.68 199 P 31 39.90 1.4
 S 32 15.00
 KAKJ 5.78 202 eP 32 21.50 -0.9
 MTMJ 6.35 219 P 32 30.10 -0.5
 S.D. = 1.1 on 6 of 6 obs.

FEB 06, 1989 06h 32m 07.92±0.66s
 42.535 N ± 6.6km 144.430 E ± 10.7km
 DEPTH = 75.1 ± 5.6 km
 4.5mb (3 obs.)
 HOKKAIDO, JAPAN REGION (224)
 Felt (I JMA) at Nemuro.

KUS 0.44 357 iPd 32 20.00 -0.8
 KUSJ 0.60 20 Pd 32 22.20 -0.1
 S 32 31.40
 HOOJ 0.86 260 iPd 32 25.80 0.6
 S 36 38.50
 ASAJ 2.05 321 P 32 41.00 0.1
 eS 33 04.50
 MRRJ 2.49 269 eP 32 47.90 1.0
 S 33 16.60
 OFUJ 4.04 212 P 33 08.50 -0.1
 eS 33 55.50
 KAKJ 7.13 209 P 33 50.50 -1.1
 S 35 06.30
 MAT 7.67 221 eP 33 59.00 -0.2
 CHJJ 7.73 215 P 34 00.20 0.3
 S 35 21.40
 MTMJ 7.84 223 P 34 02.00 0.5
 INK 48.45 29 ePc 40 44.80 0.8
 MBC 50.59 18 eP 41 01.00 0.6
 YKA 57.91 33 P 41 55.50 1.5
 SUF 64.12 333 iP 42 35.40 -0.5
 0.4s 2.50nm 4.5mb
 NUR 66.19 332 iP 42 48.50 -0.7
 LRM 68.64 47 eP 43 21.10 15.9X
 HFS 70.02 336 eP 43 11.70 -1.3
 0.4s 2.60nm 4.5mb
 NAO 70.28 338 P 43 14.10 -0.5
 0.8s 3.20nm 4.3mb
 S.D. = 0.9 on 17 of 18 obs.

FEB 06, 1989 08h 05m 53.26±0.30s
 30.736 N ± 6.3km 50.058 E ± 4.3km
 DEPTH = 33.0km (normal)
 4.6mb (8 obs.)
 IRAN (348)

TEH 5.11 12 eP 07 14.00 4.3X
 BHD 5.44 299 ePn 07 30.00 15.8X
 iP+ 07 48.00
 iPg 08 08.00
 iSn 08 57.00
 iS+ 09 26.00
 iSg 09 50.00
 SLY 6.17 323 iPn 07 12.00 -12.5X
 iSn 08 34.50
 iS+ 08 55.50
 iSg 09 20.00
 i 09 34.50
 RYD 6.73 208 eP 07 32.00 -0.3
 iS 08 42.00
 QASM 7.38 233 eP 07 40.70 -0.7
 eS 09 01.30
 MSL 8.06 316 ePd 07 49.50 -1.4
 eS 09 20.00
 e 10 36.50
 MHI 9.63 52 eP 08 07.00 -5.8X
 PRNI 12.99 272 e(P) 08 49.00 -9.2X
 MBH 13.16 270 eP 08 59.00 -1.3
 KSH 22.86 61 eP 10 52.50 -2.4
 VRI 23.62 316 ePc 11 07.00 5.0X
 MLR 23.90 315 ePd 11 09.00 4.1X
 OHR 25.75 302 eP 11 24.30 1.8
 GKN 30.19 86 P 12 02.50 -0.5
 0.4s 11.00nm 5.0mb
 GBA 30.43 118 P 12 07.00 2.0
 0.6s 1.30nm 3.9mb
 DMN 30.69 87 P 12 07.10 -0.4

KKN 30.79 86 P 12 07.90 -0.5
 0.6s 17.00nm 5.0mb
 PKI 30.96 87 P 12 09.80 -0.2
 GUN 31.28 86 P 12 12.50 -0.3
 WMO 32.39 56 eP 12 22.20 0.1
 KHC 33.05 314 eP 12 29.10 1.4
 SUF 35.51 341 eP 12 48.00 -0.6
 KJF 36.31 344 eP 12 55.00 -0.4
 HFS 38.07 331 eP 13 09.90 -0.2
 0.8s 15.00nm 4.9mb
 BNG 39.56 235 ePc 13 26.80 3.6X
 0.8s 7.00nm 4.5mb

BCAO 39.57 235 eP 13 23.20 -0.1
 NAO 39.63 331 P 13 22.80 -0.4
 0.7s 3.00nm 4.2mb
 GTA 41.19 64 iPc 13 37.50 1.0
 LZH 44.74 68 P 14 05.00 -0.5
 CHG 45.63 93 eP 14 13.10 0.5
 CHTO 45.63 93 eP 14 12.00 -0.5
 0.7s 4.29nm 4.5mb
 KMI 46.54 83 Pd 14 20.00 0.1
 NNT 49.15 100 eP 14 40.00 -0.1
 XAN 49.23 70 P 14 40.30 -0.3
 GYA 49.44 80 P 14 41.60 -0.8
 TIY 51.22 64 eP 14 56.30 0.6
 BJI 53.59 61 eP 15 13.50 0.2
 WHN 54.59 73 P 15 20.50 -0.3
 MBC 73.07 357 eP 17 22.00 0.6
 FRB 74.21 336 eP 17 29.00 0.9
 INK 81.22 1 eP 18 07.00 0.3
 IMA 81.79 10 eP 18 10.00 0.0
 0.6s 3.00nm 4.5mb
 FBA 83.66 8 eP 18 20.30 0.8
 YKA 86.28 353 P 18 26.40 -6.2X
 PMR 86.69 9 eP 18 35.60 1.0
 SPA 120.57 180 e(PKP)24 43.40 1.0
 0.5s 4.63nm
 S.D. = 0.9 on 37 of 46 obs.

* FEB 06, 1989 09h 15m 23.25±1.93s
 40.592 N ± 18.5km 27.451 E ± 7.7km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

EDC 0.40 128 iPg 15 31.40 0.0
 eSg 15 37.40
 BNT 0.43 123 iPg 15 32.20 0.2
 eSg 15 38.00
 KCT 0.77 116 iPg 15 37.20 -1.1
 EZN 1.15 229 ePn 15 44.70 -0.1
 DST 1.34 137 ePn 15 48.50 0.6
 YLV 1.46 90 iPn 15 50.20 0.4
 GBZT 1.53 82 ePn 16 24.00 33.4X
 iSg 16 26.50
 S.D. = 0.8 on 6 of 7 obs.

& FEB 06, 1989 09h 19m 00.96s
 48.412 N 122.218 W
 DEPTH = 0.0km
 WASHINGTON (29)
 <SEA>. CL 1.8 (SEA).

CMW 0.07 80 iP 19 02.58 0.3
 eS 19 04.17
 OHW 0.23 247 eP 19 05.27 -0.2
 eS 19 09.37
 JCW 0.29 139 iPd 19 06.56 -0.2
 eS 19 11.73
 RPW 0.47 85 eP 19 09.93 -0.4
 BLH 0.59 168 eP 19 12.54 -0.2
 PGW 0.64 204 eP 19 13.54 -0.3
 BLN 0.65 232 eP 19 13.13 -0.7
 HTW 0.68 154 iP 19 13.68 -0.8
 GMW 0.95 204 eP 19 17.87 -1.9
 HDW 0.95 217 eP 19 17.71 -2.1
 RMW 0.99 164 eP 19 19.49 -1.3
 STW 1.00 255 eP 19 18.77 -2.1
 OSD 1.16 240 eP 19 21.86 -1.8
 GSM 1.24 167 eP 19 23.70 -1.4
 NLW 1.30 104 eP 19 25.30 -0.8
 15 obs. associated

FEB 06, 1989 09h 29m 47.16±0.89s
 29.464 S ± 5.5km 71.303 W ± 12.1km
 DEPTH = 33.0km (normal)
 NEAR COAST OF CENTRAL CHILE (135)

06d 09h

RTRS 1.75 114 iPd 30 15.50 -0.1
 RTCB 2.96 134 ePd 30 32.90 0.0
 S 31 26.00
 ZON 3.07 133 eP 30 35.00 0.4
 RTLL 3.07 128 ePc 30 34.00 -0.6
 JACH 3.26 169 iPd 30 38.00 0.7
 IS 31 21.00
 RTCV 3.37 136 ePd 30 38.80 -0.1
 CFA 3.40 130 ePd 30 38.20 -1.0
 ROCH 3.51 176 eP 30 43.00 2.1
 PEL 3.71 172 iP 30 43.00 -0.5
 IS 31 33.10
 FCH 3.95 168 eP 30 52.00 4.8X
 MDZ 4.00 149 eP 30 50.10 2.3
 i 31 08.60
 i(S) 31 40.10
 LCCH 4.01 183 eP 30 46.00 -1.8
 IS 31 45.80
 SAN 4.01 172 eP 30 48.00 0.1
 LNV 4.48 181 eP 30 53.00 -1.5
 FSA 5.77 56 e(P) 31 12.00 -0.7
 CNCB 12.96 14 P 32 53.00 0.8
 LPB 13.20 14 P 32 57.00 1.7
 ZOBO 13.45 13 P 32 57.00 -1.8

S.D. = 1.3 on 17 of 18 obs.

FEB 06, 1989 09h 34m 42.33 ± 0.44s
 11.805 N ± 3.7km 61.027 W ± 9.3km
 DEPTH = 30.4 ± 5.4 km

WINDWARD ISLANDS (95)
 MG 3.8 (FDF).

PIG 0.67 164 eP 34 56.11 0.7
 eS 35 09.07
 BOT 0.70 154 eP 34 55.87 -0.1
 GRW 0.71 300 eP 34 56.74 0.5
 TRN 1.21 198 eP 35 02.52 -0.7
 eS 35 17.40
 TBH 1.31 182 eP 35 04.32 -0.4
 eS 35 22.34
 SVB 1.47 351 eP 35 07.32 0.3
 eS 35 26.63
 SVV 1.51 353 eP 35 08.06 0.4
 TPP 1.54 196 eP 35 07.86 -0.1
 eS 35 27.19
 BIM 2.70 359 eP 35 24.30 -0.3
 MVM 2.74 3 iPd 35 24.64 -0.5
 FDF 2.91 358 eP 35 27.09 -0.6
 S 36 00.20
 FRS 92.64 120 iPc 47 53.50 0.7
 0.9s 26.89nm 5.7mb X
 S.D. = 0.6 on 12 of 12 obs.

FEB 06, 1989 09h 57m 43.28 ± 0.90s
 17.065 N ± 10.7km 62.210 W ± 8.1km
 DEPTH = 10.0km (geophysicist)

LEEWARD ISLANDS (92)
 ML 2.7 (FDF).

MGH 0.34 181 eP 57 50.30 -0.1
 NEV 0.35 282 eP 57 50.64 0.1
 SKI 0.57 298 eP 57 54.77 -0.1
 eS 58 02.12
 SEG 0.94 134 eP 58 01.65 0.4
 PAG 1.15 154 eP 58 04.60 -0.2
 S 58 20.50
 DEG 1.33 124 eP 58 07.50 -0.4
 S 58 25.10
 MGG 1.43 143 eP 58 09.50 0.3
 S 58 28.20
 S.D. = 0.3 on 7 of 7 obs.

& FEB 06, 1989 10h 49m 00.00s
 37.512 N 121.687 W
 DEPTH = 6.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 2.5 (BRK).

MHC 0.17 168 iPc 49 03.70 0.0
 IS 49 06.60
 ARN 0.20 143 iPc 49 04.10 -0.1
 GCC 0.54 207 eP 49 10.40 -0.4
 PCC 0.55 269 iPc 49 10.40 -0.7
 BKS 0.57 310 iPc 49 11.10 -0.3
 IS 49 20.15
 i 49 23.70
 BRK 0.58 309 iPc 49 11.10 -0.5

SAO 0.77 165 iPd 49 14.90 -0.5
 LLA 1.07 146 ePc 49 19.20 -1.4
 CMB 1.16 63 ePc 49 20.70 -1.3
 IS 49 37.00
 PRS 1.21 168 ePd 49 20.40 -2.4
 PRI 1.59 149 e(P) 49 30.20 1.3
 FRI 1.66 108 e(P) 49 28.00 -1.8
 KVN 3.21 60 e(P) 49 50.00 -2.2
 TNP 3.59 80 e(P) 49 53.50 -4.0
 14 obs. associated

FEB 06, 1989 11h 37m 35.93 ± 0.30s
 39.171 N ± 3.1km 24.521 E ± 2.8km
 DEPTH = 7.3 ± 2.1 km
 4.2mb (3 obs.)

AEGEAN SEA (365)
 ML 3.9 (ATH).

NEO 1.02 278 ePn 37 55.00 -0.4
 ATH 1.35 208 ePn 38 00.50 -0.6
 eSn 38 19.10
 PRK 1.36 86 ePb 38 01.60 0.4
 PLG 1.46 326 ePn 38 02.50 -0.2
 EZN 1.54 64 iPn 38 03.80 0.0
 RDO 2.12 21 ePn 38 12.10 -0.1
 IZM 2.28 109 iPn 38 14.90 0.4
 KZN 2.40 299 ePn 38 16.50 0.1
 MMB 2.49 346 iPc 38 17.00 -0.5
 IS 38 49.00
 RZN 2.52 3 iPc 38 18.00 -0.1
 KDZ 2.57 15 iPc 38 18.00 -0.6
 VAY 2.62 326 iPn 38 19.70 0.4
 EDC 2.83 64 iPn 38 22.40 0.0
 DIM 2.98 15 iP 38 25.00 0.6
 KCT 3.15 69 iPn 38 27.10 0.3
 LSK 3.18 289 ePn 38 28.60 1.2
 DST 3.21 81 ePn 38 27.60 -0.2
 VLS 3.23 253 ePn 38 29.00 0.9
 PGB 3.39 356 iPc 38 30.00 -0.3
 OHR 3.45 305 ePn 38 31.50 0.3
 VTS 3.56 344 iPc 38 26.00 -6.8X
 DMK 3.62 42 ePn 38 33.80 0.3
 SKO 3.65 321 iPnd 38 34.40 0.4
 N 10s 1.09um

i 38 56.50
 iSn 39 20.00
 i 39 24.00
 LR 39 45.00
 TPE 3.65 289 ePn 38 34.00 -0.1
 VAM 3.77 184 ePn 38 34.60 -1.1
 BERA 3.83 295 ePn 38 39.00 2.4
 ISK 3.96 60 ePn 38 45.00 6.6X
 YLV 3.99 68 iPn 38 39.10 0.3
 NPS 4.00 167 ePn 38 38.30 -0.6
 KHL 4.00 101 ePn 38 38.70 -0.3
 PVL 4.09 8 iPc 38 39.00 -1.1
 ARG 4.11 135 ePn 38 40.50 0.1
 GBZT 4.11 65 ePn 38 56.80 16.3X
 TIR 4.17 303 ePn 38 46.50 5.2X
 LACI 4.42 305 ePn 38 50.00 5.1X
 GPA 4.60 74 ePn 38 45.90 -1.6
 SDA 4.76 308 ePn 38 53.20 3.4X
 ELL 4.90 118 eP 38 53.80 2.0
 KSL 5.04 126 ePn 38 56.00 2.3
 DRA 5.51 358 eP 39 00.00 -0.3
 ISR 6.15 13 ePc 39 10.50 1.2
 MLR 6.40 9 iPc 39 12.50 -0.6
 BEO 6.41 333 eP 39 38.50 25.6X
 BBTK 6.41 81 eP 39 38.50 25.4X
 eS 41 13.00
 CFR 6.59 23 eP 39 43.00 27.5X
 BZS 6.79 342 ePc 39 17.50 -0.8
 VRI 6.89 13 ePc 39 20.00 0.2
 MGR 6.99 281 P 39 20.40 -0.7
 CLI 7.65 14 ePd 39 30.00 -0.4
 KBA 11.36 318 e(P) 40 20.00 -1.7
 1.3s 12.50nm 5.1mb X
 KHC 12.67 325 eP 40 40.70 1.5
 NAO 23.30 343 P 42 45.40 0.5
 1.0s 8.10nm 4.2mb
 BNG 35.00 190 ePd 44 30.00 -1.0
 0.6s 3.00nm 4.3mb
 BCAO 35.00 190 eP 44 30.00 -1.0
 1.0s 2.50nm 4.0mb
 S.D. = 0.9 on 45 of 54 obs.

* FEB 06, 1989 12h 05m 52.65 ± 1.07s

1.369 S ± 8.7km 123.678 E ± 10.7km
 DEPTH = 97.7 ± 14.5 km
 4.3mb (3 obs.)

SULAWESI (268)

MNI 3.03 23 iPc 06 38.60 -0.9
 eS 07 23.00
 AAI 5.07 117 eP 07 08.90 1.3
 MKS 5.68 228 ePc 07 15.50 -0.6
 eS 08 08.00
 KUPT 8.72 180 eP 07 58.70 0.8
 WB5 21.16 151 eP 10 30.90 -0.9
 WRA 21.20 151 Pd 10 30.20 -2.0
 0.7s 9.90nm 4.3mb
 ASPA 24.28 157 iPc 11 02.50 0.3
 0.5s 24.00nm 4.9mb
 Z 21s 0.19um 3.5msz
 LR 20 39.00
 QIS 24.61 142 eP 11 06.00 0.6
 CHG 31.52 311 eP 12 08.70 1.0
 CHTO 31.52 311 eP 12 08.00 0.3
 1.2s 3.82nm 4.0mb
 i 12 16.90
 GUN 46.53 312 P 14 19.00 6.3X
 S.D. = 1.3 on 10 of 11 obs.

% FEB 06, 1989 12h 27m 12.61 ± 0.89s
 45.281 N ± 11.4km 23.984 E ± 8.3km
 DEPTH = 10.0km (geophysicist)

ROMANIA (358)

DRA 0.63 162 ePd 27 25.00 -0.3
 DEV 0.97 309 iPc 27 30.00 -1.0
 MLR 1.40 81 iPd 27 37.50 -0.7
 BZS 1.70 282 ePd 27 43.50 1.1
 VRI 2.01 72 ePc 27 48.00 1.0
 S.D. = 1.4 on 5 of 5 obs.

FEB 06, 1989 13h 09m 05.11 ± 0.75s
 30.052 N ± 10.2km 90.124 E ± 6.4km
 DEPTH = 10.0km (geophysicist)

3.8mb (1 obs.)
 TIBET (306)

LSA 0.96 111 Pgc 09 23.60 -0.1
 Sg 09 37.60
 GUN 4.29 241 P 10 13.60 1.4
 SHL 4.73 160 iP 10 20.60 2.2
 KKN 4.81 243 P 10 20.00 0.5
 PKI 4.82 240 P 10 20.70 0.9
 DMN 5.03 242 P 10 23.10 0.5
 GKN 5.22 248 P 10 24.40 -0.8
 NDI 11.34 266 eP 11 38.00 -12.2X
 eS 13 46.00
 CHTO 13.76 142 e(P) 12 22.00 -0.7
 WMO 13.88 353 eP 12 25.00 0.8
 GYA 15.01 100 P 12 39.60 0.5
 HYB 16.43 223 eP 12 55.00 -2.4
 TIY 20.01 62 eP 13 39.60 -1.2
 GBA 20.14 218 Pc 13 40.50 -1.7
 0.9s 4.00nm 3.8mb
 BJI 23.47 58 eP 14 19.00 3.5X
 S.D. = 1.4 on 13 of 15 obs.

% FEB 06, 1989 13h 28m 20.57 ± 0.96s
 39.134 N ± 8.3km 27.647 E ± 9.8km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

IZM 0.79 202 ePg 28 35.80 -0.2
 eSg 28 48.30
 DST 0.89 58 iPn 28 38.60 0.9
 EDC 1.22 8 iPn 28 43.40 0.1
 EZN 1.23 304 ePn 28 43.90 0.4
 KCT 1.24 26 iPn 28 42.50 -1.1
 S.D. = 1.1 on 5 of 5 obs.

% FEB 06, 1989 13h 33m 18.70 ± 0.91s
 38.312 N ± 7.7km 30.829 E ± 9.3km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

BCK 0.87 193 iPn 33 35.60 0.1
 KHL 1.03 271 iPn 33 37.80 -0.4
 GPA 2.01 349 ePn 33 53.00 -0.1
 BBTK 2.14 44 eP 33 55.00 -0.1
 eS 34 27.00

| | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|-------|---------|-------------------|----|-------|-------|-------------------------------|------------|---------|------------------|-------|--------|--------|-------------------------------|------------------------------|---------|-------------------|-------------|--------|--------|
| DST | 2.15 | 308 | iPn | 33 | 55.60 | 0.5 | BRW | 43.13 | 25 | eP | 33 | 35.20 | 305kxm | LCCH | 0.85 | 125 | iPd | 07 | 43.10 | -0.8 |
| S.D. = 0.5 | on | 5 | of | 5 | obs. | | SVW | 43.55 | 40 | ePc | 33 | 03.10 | 1.6 | LNv | 1.28 | 140 | iP | 07 | 50.20 | 0.3 |
| % FEB 06, 1989 | 14h | 01m | 08.67±0.82s | | | | GUN | 43.88 | 268 | P | 33 | 05.00 | 0.1 | | | | iS | 08 | 05.00 | |
| 41.075 N ± 7.3km | | | 28.561 E ± 6.1km | | | | IMA | 44.07 | 33 | iPc | 33 | 05.90 | 0.2 | TACH | 1.40 | 119 | iPd | 07 | 51.40 | -0.3 |
| DEPTH = 10.0km (geophysicist) | | | | | | | | 1.3s | 28.30nm | | | 4.4mb | | | | | iS | 08 | 06.50 | |
| TURKEY | | | | | | (366) | KKN | 44.39 | 269 | P | 33 | 08.70 | 0.0 | PEL | 1.45 | 97 | iPd | 07 | 52.70 | 0.2 |
| ISK | 0.38 | 91 | iPg | 01 | 15.80 | -0.6 | PKI | 44.41 | 268 | P | 33 | 08.70 | -0.4 | | | | iS | 08 | 09.00 | |
| | | | iSg | 01 | 21.30 | | DMN | 44.62 | 268 | P | 33 | 10.50 | -0.1 | SAN | 1.53 | 108 | iPc | 07 | 54.00 | 0.3 |
| GBZT | 0.73 | 113 | ePg | 01 | 31.00 | 8.0X | | 0.7s | 42.00nm | | | 4.9mb | | | | | iS | 08 | 11.90 | |
| | | | iSg | 01 | 33.00 | | GKN | 44.75 | 269 | P | 33 | 11.40 | -0.2 | JACH | 1.55 | 79 | iPd | 07 | 54.30 | 0.3 |
| YLV | 0.80 | 129 | iPg | 01 | 24.50 | 0.3 | KDC | 45.65 | 45 | ePc | 33 | 17.70 | -0.3 | | | | iP | 08 | 12.00 | |
| | | | iSg | 01 | 35.00 | | PMR | 46.58 | 39 | eP | 33 | 25.20 | 0.0 | CHCH | 1.74 | 123 | eP | 07 | 58.50 | 1.8 |
| KCT | 0.84 | 191 | iPg | 01 | 23.50 | -1.4 | | 0.8s | 24.00nm | | | 4.6mb | | | | | iS | 08 | 17.50 | |
| BNT | 0.87 | 214 | iPg | 01 | 26.50 | 1.1 | FBA | 46.63 | 34 | iPc | 33 | 26.30 | 0.7 | FCH | 1.81 | 102 | iPc | 07 | 58.50 | 0.6 |
| EDC | 0.90 | 216 | iPg | 01 | 25.40 | -0.5 | INK | 51.40 | 28 | iPc | 34 | 02.10 | 0.3 | | S.D. = 0.9 | on | 8 | of | 8 | obs. |
| | | | iSg | 01 | 39.40 | | | | pP | 35 | 11.50 | 330kxm | | | | | | | | |
| DMK | 0.96 | 321 | iPg | 01 | 26.90 | 0.0 | MBC | 52.63 | 17 | eP | 34 | 11.00 | 0.3 | ? FEB 06, 1989 | 19h | 25m | 14.66±2.81s | | | |
| DST | 1.47 | 178 | ePn | 01 | 35.70 | 0.5 | HYB | 55.50 | 262 | eP | 34 | 31.50 | -0.8 | 41.744 N ±17.2km | | | 24.789 E ±18.9km | | | |
| GPA | 1.54 | 120 | ePn | 01 | 37.00 | 0.7 | QUE | 56.66 | 282 | iPd | 34 | 40.50 | 0.0 | DEPTH = 10.0km (geophysicist) | | | | | | |
| S.D. = 1.0 | on | 8 | of | 9 | obs. | | KEV | 57.65 | 337 | eP | 34 | 44.00 | -2.6 | GREECE-BULGARIA BORDER REGION | | | (363) | | | |
| * FEB 06, 1989 | 14h | 35m | 29.46±1.62s | | | | MHI | 58.71 | 292 | eP | 34 | 55.00 | 0.5 | | | | | | | |
| 30.336 N ±18.1km | | | 90.190 E ± 9.9km | | | | GBA | 58.77 | 260 | Pc | 34 | 54.30 | -0.7 | RZN | 0.08 | 224 | iPc | 25 | 09.00 | -8.3X |
| DEPTH = 10.0km (geophysicist) | | | | | | | | 0.3s | 4.20nm | | | 4.5mb | | | | | Sg | 25 | 19.00 | |
| TIBET | | | | | | (306) | SOD | 59.14 | 335 | iP | 34 | 56.20 | -0.6 | PLD | 0.37 | 350 | iPgc | 25 | 22.00 | -0.2 |
| GUN | 4.48 | 238 | P | 36 | 40.40 | 1.2 | KJF | 60.65 | 332 | iP | 35 | 06.20 | -0.9 | KDZ | 0.48 | 101 | iP | 25 | 41.00 | 16.6X |
| SHL | 4.98 | 162 | eP | 36 | 46.10 | -0.1 | | 0.5s | 15.40nm | | | 4.8mb | | MMB | 0.81 | 259 | iPgc | 25 | 30.00 | -0.4 |
| | | | eS | 37 | 37.50 | | YKA | 61.05 | 30 | P | 35 | 09.90 | 0.1 | PGB | 0.93 | 330 | eP | 25 | 32.00 | -0.4 |
| PKI | 5.01 | 238 | P | 36 | 45.80 | -1.0 | WB5 | 61.67 | 183 | iPc | 35 | 13.20 | -1.0 | VT5 | 1.45 | 306 | eP | 25 | 42.00 | 0.9 |
| GKN | 5.38 | 246 | P | 36 | 50.70 | -1.2 | WRA | 61.74 | 183 | Pc | 35 | 13.90 | -0.8 | PVL | 1.53 | 15 | iPd | 25 | 42.00 | 0.1 |
| CHG | 13.96 | 143 | eP | 38 | 49.90 | 0.3 | | 0.4s | 2.20nm | | | 4.1mb | | | S.D. = 0.8 | on | 5 | of | 7 | obs. |
| CHTO | 13.96 | 143 | eP | 38 | 49.00 | -0.5 | SUF | 62.11 | 331 | iP | 35 | 16.20 | -0.6 | | | | | | | |
| HYB | 16.68 | 222 | eP | 39 | 26.00 | 1.1 | | 0.4s | 3.80nm | | | 4.4mb | | | FEB 06, 1989 | 19h | 55m | 04.84±1.05s | | |
| MHI | 26.26 | 291 | eP | 41 | 07.00 | 0.3 | NUR | 64.07 | 330 | iP | 35 | 28.60 | -0.9 | | 5.201 N ± 4.0km | | 125.968 E ± 6.0km | | | |
| S.D. = 1.1 | on | 8 | of | 8 | obs. | | ASPA | 65.46 | 184 | eP | 35 | 38.50 | -0.2 | | DEPTH = 48.1 ± 10.3 km | | | | | |
| FEB 06, 1989 | 15h | 25m | 24.66±0.31s | | | | PNT | 66.73 | 44 | eP | 35 | 46.00 | -0.7 | | 4.9mb (12 obs.) | | 4.3MsZ (1 obs.) | | | |
| 42.043 N ± 4.7km | | | 137.403 E ± 3.3km | | | | HFS | 68.24 | 333 | eP | 35 | 54.80 | -0.9 | | MINDANAO, PHILIPPINE ISLANDS | | (259) | | | |
| DEPTH = 290.0 ± 4.2 km | | | | | | | | 0.4s | 1.90nm | | | 4.2mb | | | | | | | | |
| 4.5mb (12 obs.) | | | | | | | NAO | 68.65 | 335 | P | 35 | 57.30 | -0.9 | DAV | 1.91 | 348 | eP | 55 | 36.00 | 0.4 |
| EASTERN SEA OF JAPAN | | | | | | (223) | | 0.8s | 5.20nm | | | 4.3mb | | | | | eS | 56 | 07.00 | |
| AOMJ | 2.68 | 123 | Pd | 26 | 17.60 | 0.6 | FHC | 69.54 | 53 | eP | 36 | 04.70 | 0.7 | MNI | 3.90 | 197 | ePc | 56 | 03.80 | 0.0 |
| MRRJ | 2.75 | 81 | iPd | 26 | 17.40 | -0.2 | SES | 70.28 | 39 | eP | 36 | 09.00 | 0.7 | | | | eS | 56 | 49.00 | |
| | | | eS | 26 | 58.20 | | WDC | 70.53 | 53 | ePc | 36 | 10.50 | 0.5 | TSM | 7.93 | 263 | eP | 57 | 00.40 | 0.1 |
| YAMJ | 4.36 | 152 | P | 26 | 35.10 | 0.2 | FFC | 71.13 | 32 | iPc | 36 | 13.30 | 0.1 | BAG | 12.33 | 335 | eP | 58 | 05.00 | 4.5X |
| ASAJ | 4.36 | 60 | iPd | 26 | 34.30 | -0.6 | | 0.9s | 25.00nm | | | 4.9mb | | TRT | 18.47 | 226 | ePd | 59 | 20.20 | 1.1 |
| | | | S | 27 | 26.60 | | ORV | 71.80 | 53 | ePc | 36 | 17.40 | -0.1 | MTN | 18.65 | 164 | eP | 59 | 19.00 | -2.3 |
| HOOJ | 4.38 | 84 | iPd | 26 | 34.40 | -0.7 | FRB | 72.56 | 12 | eP | 36 | 21.00 | -0.4 | | | | e | 59 | 27.00 | |
| | | | S | 27 | 27.30 | | LRM | 72.69 | 43 | eP | 36 | 23.20 | 0.4 | QIZ | 20.88 | 313 | eP | 59 | 46.00 | 0.5 |
| OFUJ | 4.39 | 131 | P | 26 | 33.40 | -1.9 | MHC | 73.13 | 55 | e(P) | 36 | 28.50 | 3.1X | KNA | 21.00 | 172 | eP | 59 | 45.50 | -1.2 |
| | | | eS | 27 | 27.00 | | CMB | 73.44 | 54 | ePc | 36 | 27.70 | 0.6 | KGM | 22.82 | 263 | eP | 00 | 09.00 | 4.2X |
| NIIJ | 4.95 | 165 | P | 26 | 42.40 | 0.7 | PRS | 73.95 | 56 | ePc | 36 | 30.60 | 0.6 | IPM | 24.86 | 270 | ePd | 00 | 26.10 | 1.5 |
| MTMJ | 5.46 | 177 | P | 26 | 49.30 | 1.4 | LLA | 74.03 | 55 | eP | 36 | 31.10 | 0.7 | | 0.9s | 43.10nm | | 5.0mb | | |
| KUSJ | 5.50 | 76 | iPd | 26 | 46.10 | -2.1 | PRI | 74.51 | 55 | e(P) | 36 | 34.50 | 1.2 | SNG | 25.28 | 276 | eP | 00 | 15.80 | -12.7X |
| | | | S | 27 | 47.30 | | FR1 | 74.53 | 54 | ePc | 36 | 33.80 | 0.6 | SSE | 26.15 | 351 | P | 00 | 40.00 | 3.6X |
| MAT | 5.53 | 173 | iPc | 26 | 52.00 | 3.4X | KHC | 76.66 | 326 | eP | 36 | 46.60 | 1.7 | PPI | 26.15 | 258 | eP | 00 | 38.00 | 1.4 |
| | | | eS | 27 | 56.00 | | BWA | 76.76 | 171 | eP | 36 | 47.30 | 1.8 | WB5 | 26.26 | 162 | eP | 00 | 37.80 | 0.2 |
| CHJJ | 6.11 | 168 | P | 26 | 55.10 | -0.5 | ZOBO | 146.24 | 48 | PKP | 44 | 33.90 | 2.1X | | | | i | 00 | 44.10 | |
| | | | S | 27 | 06.00 | | LPB | 146.47 | 48 | PKP | 44 | 36.00 | 4.0X | | | | eS | 05 | 40.30 | |
| KAKJ | 6.21 | 159 | P | 26 | 53.80 | -3.0X | CNCB | 146.76 | 48 | PKP | 44 | 35.00 | 2.4X | WRA | 26.31 | 162 | Pd | 00 | 38.60 | 0.6 |
| | | | S | 28 | 03.30 | | | S.D. = 0.9 | on | 69 | of | 75 | obs. | | 0.5s | 4.00nm | | 4.2mb | | |
| MDJ | 6.25 | 297 | Pd | 26 | 59.00 | 1.7 | % FEB 06, 1989 | 16h | 55m | 32.73±0.83s | | | | NNT | 26.92 | 288 | eP | 00 | 24.20 | -19.5X |
| | | | S | 28 | 08.00 | | 42.897 N ± 7.0km | | | 18.769 E ± 6.1km | | | PSI | 27.09 | 266 | ePc | 00 | 46.40 | 1.1 | |
| IIDJ | 6.57 | 176 | P | 27 | 01.60 | 0.4 | DEPTH = 10.0km (geophysicist) | | | | | | NST | 27.42 | 294 | eP | 00 | 19.70 | -28.5X | |
| | | | S | 27 | 18.60 | | YUGOSLAVIA | | | (383) | | | WHN | 27.48 | 338 | eP | 00 | 49.00 | 0.4 | |
| CN2 | 8.95 | 285 | Pd | 27 | 30.40 | -0.2 | MD 2.4 (TTG). | | | | | | OIS | 28.89 | 153 | eP | 01 | 01.00 | -0.5 | |
| SNY | 10.31 | 273 | iPd | 27 | 49.50 | 2.0 | BRY | 0.17 | 271 | iPgc | 55 | 36.40 | -0.2 | CHG | 29.63 | 299 | iPd | 01 | 08.70 | 0.5 |
| DL2 | 12.41 | 261 | P | 28 | 15.00 | 1.6 | | | | | | | | | 1.0s | 19.00nm | | 4.7mb | | |
| BJI | 16.14 | 270 | Pd | 28 | 56.50 | -0.7 | NKY | 0.19 | 116 | iPgc | 55 | 37.50 | 0.5 | CHTO | 29.63 | 299 | iPd | 01 | 08.20 | 0.0 |
| TIA | 16.76 | 256 | Pd | 29 | 03.30 | -0.6 | | | | | | | | | 0.7s | 11.12nm | | 4.7mb | | |
| SSE | 16.97 | 235 | eP | 29 | 05.00 | -1.0 | HCY | 0.49 | 204 | ePg | 55 | 43.00 | 0.3 | ASPA | 29.72 | 165 | iPc | 01 | 10.70 | 1.8 |
| | | | i | 29 | 11.50 | | TTG | 0.59 | 142 | ePg | 55 | 43.90 | -0.8 | WARB | 31.20 | 179 | iPc | 01 | 15.80 | -6.1X |
| HHC | 19.39 | 275 | eP | 29 | 30.40 | -0.4 | | | | | | | | | 0.6s | 8.00nm | | 4.7mb | | |
| TIY | 19.62 | 266 | eP | 29 | 32.80 | -0.2 | BDV | 0.61 | 176 | ePg | 55 | 45.20 | 0.1 | TIA | 31.91 | 346 | Pd | 01 | 31.50 | 3.4X |
| BTO | 20.59 | 275 | P | 29 | 43.00 | 0.4 | PLE | 0.63 | 46 | iPgd | 55 | 45.50 | 0.0 | IIDJ | 32.08 | 19 | P | 01 | 49.10 | 19.5X |
| XAN | 23.73 | 260 | P | 30 | 11.50 | -1.1 | | | | | | | | CTA | 32.08 | 142 | iPc | 01 | 34.10 | 4.4X |
| LZH | 26.61 | 268 | eP | 30 | 38.50 | -0.4 | | | | | | | | MEKA | 32.44 | 192 | eP | 01 | 32.00 | -0.7 |
| | 1.5s | 0.07nm | | | 1.9mb | X | | S.D. = 0.6 | on | 6 | of | 6 | obs. | | 0.4s | 5.00nm | | 4.7mb | | |
| GTA | 28.46 | 277 | Pd | 30 | 54.30 | -1.0 | ? FEB 06, 1989 | 18h | 07m | 28.26±10.99s | | | | XAN | 32.77 | 333 | Pd | 01 | 34.20 | -1.4 |
| | | | ScS | 41 | 05.40 | | 32.983 S ±33.2km | | | 72.403 W ±84.9km | | | CHJJ | 32.95 | 20 | P | 01 | 36.20 | -0.9 | |
| GYA | 29.59 | 248 | P | 31 | 05.40 | 0.1 | DEPTH = 33.0km (normol) | | | | | | CD2 | 33.02 | 323 | eP | 01 | 37.30 | -0.5 | |
| CHTO | 39.97 | 247 | eP | 32 | 33.60 | 0.7 | OFF COAST OF CENTRAL CHILE | | | (134) | | | MTMJ | 33.07 | 18 | P | 01 | 38.40 | 0.2 | |
| | 1.0s | 11.50nm | | | 4.2mb | </ | | | | | | | | | | | | | | |

06d 20h

| | | | | | | | | | | | | | | |
|------------------------------------|------------------|------------------|----------|------|--------|----------------------------------|------------------|----------|------|------------------------------------|------------------------------------|-------------------|----------|------|
| SNY | 0.4 s | 15.00nm | 5.3mb | VZW | 5.26 | 45 eP | 24 37.84 | -3.1 | GKN | 45.45 | 85 P | 04 55.00 | | |
| LZH | 36.53 | 357 eP | 02 07.90 | 0.3 | CVA | 5.29 | 52 eP | 24 38.64 | -2.7 | DMN | 46.00 | 85 P | 10 05.20 | 0.2 |
| | 36.86 | 329 eP | 02 11.00 | 0.3 | VLZ | 5.39 | 45 eP | 24 40.12 | -2.6 | KKN | 46.06 | 85 P | 10 09.50 | 0.1 |
| | 1.5 s | 0.04nm | 2.2mb X | | TTA | 5.47 | 351 eP | 24 41.40 | -2.5 | | S.D. = 0.6 | on 17 of 18 obs. | | |
| HHC | 37.77 | 342 eP | 02 18.00 | -0.2 | SGAM | 5.50 | 54 eP | 24 41.64 | -2.7 | | * FEB 06, 1989 23h 36m 22.63±0.64s | | | |
| SHL | 38.40 | 305 iP | 02 23.20 | -0.6 | RAGM | 5.69 | 56 eP | 24 44.74 | -2.2 | | 52.991 S ±12.2km | 10.040 E ±15.5km | | |
| CN2 | 38.44 | 359 eP | 02 25.40 | 1.7 | KLU | 5.77 | 43 iP | 24 45.07 | -3.1 | | DEPTH = 10.0km (geophysicist) | | | |
| MDJ | 39.39 | 4 eP | 02 32.50 | 1.0 | TOA | 6.10 | 38 ePd | 24 50.20 | -2.5 | | 4.3mb (2 obs.) | | | |
| STK | 39.77 | 159 eP | 02 35.00 | 0.2 | MCK | 6.71 | 20 eP | 24 59.86 | -1.6 | | SOUTHWEST OF AFRICA | (413) | | |
| GTA | 41.45 | 329 P | 02 48.30 | -0.4 | | | eS | 26 13.77 | | | | | | |
| BRS | 41.48 | 143 iPc | 02 49.00 | 0.0 | PAX | 6.95 | 35 eP | 25 01.22 | -3.6 | SYO | 21.13 | 151 eP | 41 08.80 | -0.6 |
| | | i | 02 53.40 | | CTGM | 7.43 | 57 eP | 25 08.20 | -3.3 | BUL | 35.79 | 31 eP | 43 25.40 | 1.4 |
| ADE | 41.72 | 164 eP | 02 51.50 | 0.7 | DDM | 7.47 | 30 eP | 25 09.35 | -2.6 | BCAO | 57.66 | 10 eP | 46 15.00 | -0.3 |
| GUN | 44.26 | 305 P | 03 12.10 | 0.0 | NEA | 7.47 | 17 eP | 25 09.35 | -2.6 | | 1.0s | 2.25nm | 4.2mb | |
| PKI | 44.51 | 305 P | 03 13.60 | -0.5 | HDA | 7.72 | 24 eP | 25 11.39 | -4.1 | BNG | 57.66 | 10 ePc | 46 15.00 | -0.3 |
| KKN | 44.70 | 305 P | 03 15.10 | -0.4 | BCPM | 7.95 | 66 eP | 25 14.58 | -4.1 | | 0.7s | 3.00nm | 4.4mb | |
| | 0.9s | 49.00nm | 5.3mb | | IMA | 8.55 | 1 ePc | 25 24.60 | -2.6 | LIC | 60.36 | 343 Pd | 46 33.10 | -0.9 |
| BWA | 44.75 | 153 eP | 03 18.90 | 3.4X | INK | 14.21 | 32 eP | 26 40.00 | -3.5 | TIC | 60.77 | 343 Pd | 46 35.90 | -0.9 |
| DMN | 44.77 | 304 P | 03 15.90 | -0.2 | YKA | 20.14 | 59 P | 27 54.00 | -3.2 | CNCB | 69.57 | 269 P | 47 35.00 | 0.6 |
| | 0.9s | 55.00nm | 5.4mb | | MBC | 22.53 | 21 eP | 28 17.00 | -4.3 | LPB | 69.85 | 269 P | 47 36.80 | 0.8 |
| GKN | 45.30 | 305 P | 03 19.90 | -0.3 | | 0.6s | 6.00nm | 4.3mb | | ZOBO | 70.07 | 269 iPd | 47 36.80 | -0.7 |
| | 0.6s | 15.00nm | 5.0mb | | KVN | 29.82 | 113 eP | 29 29.00 | -0.9 | EDM | 146.78 | 294 ePKP | 56 04.50 | 1.0 |
| CAN | 45.76 | 153 eP | 03 29.00 | 5.5X | BW06 | 31.54 | 98 e(P) | 29 46.00 | 0.9 | YKC | 149.83 | 310 iPKPd | 56 12.30 | 4.3X |
| HYB | 47.92 | 289 eP | 03 39.50 | -1.3 | FRB | 39.42 | 44 eP | 30 53.00 | 1.3 | MBC | 149.91 | 338 ePKP | 56 13.00 | 5.2X |
| DZM | 48.00 | 126 iPc | 03 42.70 | 1.2 | SUF | 60.06 | 360 iP | 33 25.40 | -4.0 | | S.D. = 1.0 | on 10 of 12 obs. | | |
| GBA | 48.52 | 283 Pd | 03 44.70 | -0.7 | EKA | 65.06 | 18 P | 34 00.00 | -2.8 | | * FEB 07, 1989 00h 37m 44.76±2.15s | | | |
| | 0.8s | 9.00nm | 4.9mb | | | 0.9s | 12.90nm | 5.1mb | | | 36.297 N ±19.8km | 1.775 E ± 7.9km | | |
| WMO | 51.09 | 325 eP | 04 03.50 | -1.3 | DOU | 71.30 | 14 Pc | 34 38.90 | -2.8 | | DEPTH = 10.0km (geophysicist) | | | |
| NDI | 51.69 | 303 iPd | 04 08.00 | -1.5 | KHC | 73.20 | 8 Pc | 34 51.00 | -2.0 | ALGERIA | | (396) | | |
| MHI | 60.02 | 307 eP | 06 02.00 | 0.3 | HAU | 73.57 | 13 eP | 34 52.20 | -3.0 | ACU | 2.81 | 322 iPc | 38 30.20 | -0.4 |
| INK | 89.08 | 21 ePc | 07 56.80 | 0.9 | | 0.6s | 5.40nm | 4.8mb | | | eS | 38 59.00 | | |
| YKA | 98.48 | 24 P | 08 40.80 | 1.7 | LOR | 73.96 | 15 eP | 34 54.50 | -3.0 | ENIJ | 3.28 | 283 eP | 38 37.50 | 0.3 |
| ZOBO | 162.33 | 130 PKP | 15 06.00 | 2.3X | SSF | 74.12 | 16 eP | 34 55.40 | -2.9 | | eS | 39 13.30 | | |
| | S.D. = 1.0 | on 48 of 62 obs. | | | | 1.0s | 12.00nm | 4.9mb | | ESEL | 3.58 | 14 eP | 38 41.20 | -0.2 |
| ? FEB 06, 1989 20h 33m 07.67±2.28s | | | | | LBF | 74.26 | 15 eP | 34 56.10 | -3.1 | ECHE | 3.94 | 327 eP | 38 46.20 | -0.4 |
| 38.043 N ±18.8km | 23.520 E ±22.5km | | | | | 1.0s | 6.00nm | 4.6mb | | EROO | 4.64 | 347 eP | 38 56.00 | -0.6 |
| DEPTH = 33.0km (normal) | | | | | AVF | 74.36 | 16 eP | 34 56.60 | -3.1 | | eS | 39 27.50 | | |
| GREECE | | (364) | | | | 0.6s | 6.60nm | 4.8mb | | EPF | 6.82 | 351 Pn | 39 28.60 | 1.3 |
| ML 3.0 (ATH). | | | | | BGF | 74.51 | 16 eP | 34 58.10 | -2.5 | | Sn | 40 38.50 | | |
| | | | | | SMF | 74.57 | 15 eP | 34 57.90 | -3.1 | LMR | 7.91 | 26 Pn | 39 42.10 | -0.5 |
| ATH | 0.17 | 114 ePb | 33 14.00 | 0.0 | | 0.8s | 5.90nm | 4.7mb | | | Sn | 41 03.30 | | |
| | | eSb | 33 19.50 | | LSF | 74.61 | 17 eP | 34 58.30 | -2.9 | LRG | 7.97 | 25 Pn | 39 44.20 | 0.9 |
| NEO | 1.28 | 350 ePn | 33 29.30 | -0.1 | | 1.0s | 12.00nm | 4.9mb | | FRF | 8.16 | 26 Pn | 39 46.10 | 0.1 |
| PLG | 2.33 | 359 ePn | 33 44.60 | 0.1 | KBA | 75.22 | 9 ePd | 35 02.00 | -2.9 | | Sn | 41 06.00 | | |
| PRK | 2.47 | 60 ePn | 33 46.40 | 0.0 | | 0.5s | 5.30nm | 4.8mb | | CVF | 8.32 | 39 Pn | 39 48.00 | -0.4 |
| | S.D. = 0.2 | on 4 of 4 obs. | | | LFF | 75.75 | 18 eP | 35 04.90 | -2.9 | CAF | 8.62 | 1 Pn | 39 52.50 | 0.0 |
| & FEB 06, 1989 22h 23m 19.59s | | | | | | 0.7s | 13.20nm | 5.1mb | | SBF | 8.71 | 28 Pn | 39 53.60 | -0.1 |
| 57.557 N | 154.203 W | | | | LPO | 76.08 | 18 eP | 35 06.70 | -2.9 | | Sn | 41 23.80 | | |
| DEPTH = 3.7km | | | | | | 0.7s | 8.80nm | 5.0mb | | | S.D. = 0.6 | on 12 of 12 obs. | | |
| 4.9mb (17 obs.) | | | | | LPG | 76.09 | 14 eP | 35 08.20 | -1.9 | ? FEB 07, 1989 02h 03m 04.46±7.04s | | | | |
| KODIAK ISLAND REGION | | (13) | | | | 1.0s | 4.80nm | 4.6mb | | | 21.335 N ±71.2km | 108.155 W ±15.6km | | |
| <AGS-P>. ML 4.4 (PMR). Felt (IV) | | | | | SBF | 77.79 | 13 eP | 35 16.20 | -3.0 | | DEPTH = 10.0km (geophysicist) | | | |
| at Karluk. | | | | | | 0.8s | 13.40nm | 5.1mb | | REVILLA GIGEDO ISLANDS REGION | (53) | | | |
| KDC | 0.94 | 78 iPc | 23 37.10 | -1.0 | GUN | 81.13 | 309 P | 35 35.30 | -2.6 | MZX | 2.45 | 40 iP | 03 43.00 | -2.1 |
| CDD | 1.41 | 12 eP | 23 43.10 | -3.0 | KKN | 81.48 | 309 P | 35 37.00 | -2.5 | ALO | 13.64 | 6 eP | 06 21.50 | 1.0 |
| AUI | 1.83 | 13 eP | 23 50.68 | -1.4 | GKN | 81.56 | 310 P | 35 37.30 | -2.6 | MEQ | 15.82 | 30 eP | 06 48.20 | -0.7 |
| | | eS | 24 14.57 | | PKI | 81.62 | 309 P | 35 37.60 | -2.8 | | 1.5s | 11.70nm | 3.8mb | |
| PDB | 2.24 | 0 eP | 23 56.18 | -1.8 | | 0.6s | 12.00nm | 5.2mb | | VVO | 17.70 | 35 eP | 07 13.20 | 0.6 |
| CNPM | 2.51 | 37 eP | 24 01.36 | -0.6 | DMN | 81.71 | 310 P | 35 38.20 | -2.6 | SIO | 17.71 | 33 e(P) | 07 13.30 | 0.5 |
| ILIM | 2.61 | 14 eP | 24 02.11 | -1.3 | | 0.5s | 14.00nm | 5.3mb | | TUL | 18.10 | 34 ePd | 07 18.40 | 0.8 |
| NNL | 2.92 | 30 iP | 24 07.48 | -0.2 | CHG | 82.99 | 294 eP | 35 44.70 | -2.6 | | 1.4s | 32.30nm | 4.3mb | |
| RED | 2.96 | 14 eP | 24 07.05 | -1.4 | GBA | 97.38 | 310 Pc | 36 51.20 | -4.2 | LNO | 18.11 | 34 eP | 07 17.50 | -0.1 |
| | | eS | 24 44.30 | | | 0.7s | 2.60nm | 5.0mb | | RLO | 18.70 | 35 eP | 07 25.80 | 0.8 |
| RDT | 3.17 | 16 eP | 24 09.84 | -1.4 | | 75 obs. associated | | | | KVN | 19.61 | 336 eP | 07 35.10 | -1.1 |
| NKA | 3.54 | 24 eP | 24 17.17 | 0.7 | | FEB 06, 1989 23h 01m 54.45±0.42s | | | | LRM | 24.68 | 353 eP | 08 27.40 | 0.4 |
| SEW | 3.55 | 42 eP | 24 14.17 | -2.5 | | 36.827 N ± 6.0km | 31.211 E ± 6.1km | | | | S.D. = 1.1 | on 10 of 10 obs. | | |
| SLKM | 3.60 | 33 eP | 24 15.40 | -2.0 | | DEPTH = 102.7 ± 8.0 km | | | | | FEB 07, 1989 02h 04m 25.82±0.29s | | | |
| SVV | 3.64 | 349 ePc | 24 15.60 | -2.3 | TURKEY | | | | | | 5.007 S ± 4.6km | 134.171 E ± 5.6km | | |
| SPU | 3.80 | 16 eP | 24 19.19 | -1.1 | BCK | 0.80 | 322 iPn | 02 13.60 | 0.2 | AROE ISLANDS REGION | (204) | | | |
| CRP | 3.87 | 15 eP | 24 20.57 | -0.7 | KSL | 1.49 | 242 ePg | 02 21.70 | 0.6 | AAI | 6.10 | 282 ePd | 05 54.90 | -1.2 |
| SDN | 4.14 | 240 eP | 24 26.00 | 1.1 | KHL | 2.01 | 319 iPn | 02 27.20 | -0.6 | | eS | 06 00.00 | | |
| MTU | 4.19 | 52 eP | 24 23.64 | -2.1 | PPCY | 2.15 | 154 eP | 02 32.50 | 3.0X | JAY | 6.97 | 69 ePd | 06 07.20 | -1.2 |
| PTE | 4.25 | 37 eP | 24 24.02 | -2.6 | CSS | 2.53 | 137 eP | 02 35.00 | 0.3 | | | | | |
| KNIM | 4.36 | 47 eP | 24 25.39 | -2.8 | ARG | 2.56 | 257 ePb | 02 35.00 | 0.0 | | | | | |
| PMS | 4.39 | 31 ePc | 24 26.40 | -2.3 | KAP | 3.50 | 250 ePn | 02 48.00 | 0.1 | | | | | |
| PWL | 4.48 | 40 iP | 24 27.14 | -2.7 | BURJ | 5.94 | 139 P | 03 21.50 | 0.0 | | | | | |
| PLRM | 4.80 | 30 eP | 24 31.40 | -3.0 | JARJ | 6.02 | 138 P | 03 22.60 | 0.0 | | | | | |
| PMR | 4.80 | 30 ePc | 24 31.30 | -3.1 | SALJ | 6.06 | 141 P | 03 23.00 | -0.2 | | | | | |
| KNK | 4.85 | 35 eP | 24 32.17 | -3.0 | KFNJ | 6.18 | 142 P | 03 24.60 | -0.1 | | | | | |
| PME | 4.86 | 31 eP | 24 32.44 | -2.7 | DSI | 6.28 | 145 eP | 03 25.50 | -0.6 | | | | | |
| HIN | 4.90 | 51 eP | 24 33.20 | -2.6 | | | eS | 04 31.00 | | | | | | |
| GHO | 5.00 | 30 eP | 24 34.67 | -2.7 | MASJ | 6.31 | 142 P | 03 26.20 | -0.3 | | | | | |
| FID | 5.10 | 48 eP | 24 34.67 | -4.0 | KOT | 6.90 | 176 eP | 03 33.50 | -1.1 | | | | | |
| SML | 5.20 | 32 eP | 24 37.13 | -2.9 | PRNI | 7.19 | 153 e(P) | 03 40.00 | 1.3 | | | | | |

| | | | | | | | | | | | | | | | | | | | | | |
|------|-------|----------|-------|-----|-------|--------|------|----------------------------------|--------------------|---------------|-----------|--------|--------|------|-------|----------|-------|-------|--------|-------|--|
| | 0.6s | 43.00nm | 5.6mb | MBC | 98.73 | 13 | eP | 18 | 02.00 | -0.8 | | | | pP | 13 | 30.00 | 181km | | | | |
| TZZ | 7.03 | 92 | eP | 05 | 21.50 | -47.7X | BSF | 118.14 | 323 | ePKP | 23 | 10.80 | -0.6 | PWLA | 60.10 | 340 | P | 12 | 48.60 | -2.1 | |
| MTN | 8.35 | 201 | iPd | 06 | 28.10 | 0.6 | LPG | 119.17 | 320 | ePKP | 23 | 13.30 | -0.4 | CVL | 60.67 | 350 | P | 12 | 54.00 | -0.5 | |
| | | | eS | 07 | 58.00 | | | 0.8s | 2.60nm | | | | | NA2 | 60.70 | 350 | P | 12 | 52.70 | -2.0 | |
| MNDI | 9.51 | 97 | e(P) | 06 | 45.00 | 1.2 | LBF | 120.22 | 323 | ePKP | 23 | 15.00 | -0.3 | CBN | 60.72 | 351 | eP | 12 | 54.00 | -0.8 | |
| KUPT | 11.65 | 243 | ePc | 07 | 12.50 | -0.4 | | 0.8s | 2.60nm | | | | | OLY | 61.71 | 338 | P | 12 | 59.30 | -2.2 | |
| KNA | 11.92 | 206 | iPd | 07 | 14.70 | -1.8 | SSF | 120.47 | 323 | ePKP | 23 | 15.50 | -0.2 | | | | pP | 13 | 39.70 | 172km | |
| | 0.5s | 308.00nm | 6.7mb | X | | | | 0.8s | 2.60nm | | | | | RKT | 62.01 | 255 | iP | 13 | 02.20 | -1.6 | |
| | | | eS | 09 | 22.00 | | TCF | 121.63 | 323 | ePKP | 23 | 18.60 | 0.6 | | 1.0s | 40.00nm | | | 5.2mb | | |
| PMG | 13.60 | 109 | iPd | 07 | 38.50 | -0.4 | | 0.8s | 5.30nm | | | | | FVM | 63.61 | 340 | P | 13 | 12.80 | -1.1 | |
| | 0.9s | 57.14nm | 5.4mb | | | | ARE | 146.85 | 131 | iPKP | 24 | 10.30 | 4.5X | | 1.0s | 220.00nm | | | 6.0mb | | |
| WB5 | 14.78 | 179 | eP | 07 | 51.50 | -2.9 | CNCB | 149.19 | 135 | PKP | 24 | 17.00 | 7.1X | | | | pP | 13 | 56.00 | 184km | |
| | | | i | 07 | 56.00 | | LPB | 149.29 | 135 | PKP | 24 | 17.00 | 7.2X | LNO | 63.71 | 334 | ePd | 13 | 13.20 | -1.3 | |
| | | | eS | 10 | 31.00 | | ZOBO | 149.45 | 134 | PKP | 24 | 17.00 | 6.7X | FKO | 63.81 | 333 | eP | 13 | 13.80 | -1.5 | |
| WRA | 14.85 | 179 | P | 07 | 53.00 | -2.2 | | S.D. = 1.3 | on | 59 | of | 68 | obs. | | 0.6s | 30.70nm | | | 5.4mb | | |
| | 0.6s | 3.70nm | 3.9mb | X | | | | | | | | | | MEO | 63.92 | 332 | iPd | 13 | 14.20 | -1.9 | |
| QIS | 16.33 | 162 | eP | 08 | 12.00 | -2.4 | | FEB | 07, 1989 | 04h | 03m | 00.22± | 0.16s | | 0.9s | 51.40nm | | | 5.4mb | | |
| | | | e | 08 | 33.00 | | | 22.087 | S ± 4.1km | 67.223 | W ± 3.8km | | | OCO | 64.07 | 333 | eP | 13 | 15.00 | -2.0 | |
| | | | e | 11 | 09.00 | | | DEPTH = 179.5km | (14 depth phases) | | | | | | 0.8s | 19.40nm | | | 5.0mb | | |
| | | | e | 13 | 16.00 | | | 5.4mb | (41 obs.) | | | | | PCO | 64.86 | 334 | iPc | 13 | 21.40 | -0.7 | |
| ASPA | 18.55 | 181 | iPc | 08 | 41.50 | -0.6 | | CHILE-BOLIVIA BORDER REGION | (124) | | | | | | 0.7s | 32.10nm | | | 5.3mb | | |
| Z | 22s | 0.53um | | | | | | CENTROID, MOMENT TENSOR | (HRV) | | | | | ACO | 65.78 | 332 | ePc | 13 | 26.70 | -1.3 | |
| | | | eS | 12 | 03.20 | | | Data Used: GDSN | | | | | | | 1.0s | 35.80nm | | | 5.1mb | | |
| | | | LR | 15 | 56.40 | | | L.P.B.: 10S, 21C | | | | | | RSNY | 66.64 | 354 | P | 13 | 33.10 | -0.2 | |
| CTA | 19.05 | 143 | iPc | 08 | 50.00 | 1.8 | | Centroid Locotion: | | | | | | | 0.6s | 11.29nm | | | 4.8mb | | |
| | 0.8s | 46.27nm | 4.8mb | | | | | Origin Time | 04:03: 5.1 | 0.5 | | | | LIC | 67.05 | 73 | Pc | 13 | 35.78 | -0.7 | |
| KKM | 21.02 | 301 | ePc | 09 | 10.00 | 0.6 | | Lat 22.02S | 0.06 | Lon 67.51W | 0.07 | | | TIC | 67.25 | 72 | Pc | 13 | 37.14 | -0.5 | |
| PPR | 21.27 | 314 | ePd | 09 | 14.00 | 2.3 | | Dep 181.6 | 1.7 | Half-duration | 2.0 | | | | 0.9s | 114.00nm | | | 5.7mb | | |
| GUA | 21.29 | 30 | eP | 09 | 12.20 | 0.3 | | Moment Tensor: | Scale 10**17 | Nm | | | | KIC | 67.37 | 73 | Pc | 13 | 38.00 | -0.4 | |
| | 0.8s | 89.55nm | 5.2mb | | | | | Mrr=-0.38 | 0.09 | Mtt=-0.24 | 0.13 | | | | 0.8s | 184.00nm | | | 5.9mb | | |
| TRT | 21.57 | 262 | iPc | 09 | 17.60 | 2.8 | | Mrr= | 0.62 | 0.12 | Mrt= | 0.15 | 0.10 | ALO | 67.85 | 326 | iPd | 13 | 41.00 | -0.3 | |
| | 0.8s | 46.90nm | 5.0mb | | | | | Mrrf=-1.89 | 0.08 | Mtf= | 0.51 | 0.12 | | | 1.0s | 72.50nm | | | 5.4mb | | |
| WARB | 22.25 | 198 | iPd | 09 | 17.60 | -4.0X | | Principal Axes: | | | | | | | | e | 14 | 23.50 | 179km | | |
| | 0.5s | 23.00nm | 4.9mb | | | | | T Val= | 2.12 | Plg=36 | Azm=100 | | | GAC | 67.88 | 354 | ePd | 13 | 41.00 | 0.1 | |
| NANU | 25.09 | 224 | eP | 09 | 51.00 | 1.9 | | N | -0.17 | 16 | 357 | | | | | pP | 14 | 28.00 | 199kmX | | |
| | 0.5s | 11.00nm | 4.7mb | | | | | P | -1.95 | 49 | 248 | | | GLD | 71.01 | 330 | P | 14 | 00.60 | 0.2 | |
| RMQ | 25.51 | 148 | eP | 09 | 54.00 | 1.0 | | Best Double Couple:Mo=2.0*10**17 | | | | | | | 1.5s | 318.75nm | | | 5.9mb | | |
| | | | e | 17 | 11.00 | | | NP1:Strike=244 | Dip=17 | Slip=-23 | | | | | | pP | 14 | 44.60 | 184km | | |
| FORR | 26.33 | 192 | eP | 10 | 01.00 | 0.4 | | NP2: | 355 | 83 | -106 | | | GOL | 71.04 | 330 | P | 14 | 00.40 | -0.3 | |
| STK | 27.63 | 166 | e(P) | 10 | 13.00 | 0.6 | HJA | 2.02 | 124 | iPc | 03 | 37.10 | -0.7 | | | | pP | 14 | 44.00 | 182km | |
| BRS | 28.46 | 143 | eP | 10 | 21.50 | 1.5 | FSA | 4.13 | 165 | e(P) | 04 | 00.00 | -3.5X | RW1 | 71.09 | 327 | P | 14 | 00.90 | -0.1 | |
| ADE | 30.11 | 173 | eP | 10 | 37.20 | 2.4 | CCH | 4.79 | 12 | iPd | 04 | 13.00 | 0.5 | | | | pP | 14 | 43.80 | 179km | |
| | 0.8s | 32.84nm | 5.2mb | | | | | 0.2s | 20.00nm | | | | | LEGH | 71.13 | 76 | eP | 14 | 01.00 | -0.4 | |
| BWA | 32.11 | 157 | eP | 11 | 03.30 | 10.9X | | 5.30 | 352 | iPc | 04 | 21.80 | 2.5 | KUK | 71.19 | 75 | eP | 14 | 02.00 | 0.2 | |
| BFD | 32.92 | 168 | eP | 10 | 40.00 | -19.3X | CNCB | 5.59 | 351 | iPc | 04 | 25.20 | 2.2 | | 0.4s | 450.00nm | | | 6.6mb | X | |
| QIZ | 33.83 | 316 | eP | 11 | 06.20 | -1.2 | LPB | | | S | 05 | 32.00 | | GLA | 71.20 | 319 | eP | 14 | 01.00 | -0.5 | |
| PPI | 34.03 | 277 | eP | 11 | 10.00 | 0.8 | | | | LR | 06 | 32.00 | | KOGH | 71.26 | 75 | eP | 14 | 02.00 | -0.2 | |
| DZM | 35.54 | 122 | iPc | 11 | 31.10 | 8.9X | | | | S | 05 | 25.60 | -6.2X | BAR | 72.08 | 318 | eP | 14 | 06.00 | -0.7 | |
| PSI | 36.03 | 281 | eP | 11 | 26.50 | 0.2 | ZOBO | 5.85 | 351 | iPc | 04 | 27.40 | 0.8 | PLM | 72.65 | 318 | eP | 14 | 10.00 | -0.2 | |
| SSE | 37.98 | 342 | P | 11 | 42.00 | -0.4 | | | | S | 05 | 18.00 | | TPC | 72.66 | 319 | eP | 14 | 10.00 | -0.1 | |
| | 0.8s | 0.02nm | 1.9mb | X | | | | | | LR | 06 | 18.00 | | PEC | 73.20 | 318 | P | 14 | 13.10 | -0.1 | |
| | | | e | 15 | 20.00 | | RTRS | 8.30 | 194 | ePc | 04 | 51.00 | -7.3X | RVR | 73.40 | 318 | eP | 14 | 14.00 | -0.3 | |
| WHN | 40.12 | 333 | P | 12 | 01.00 | 0.8 | RTLL | 9.27 | 187 | iPd | 05 | 02.70 | -8.5X | MSU | 73.55 | 325 | P | 14 | 16.10 | 0.7 | |
| | | | sP | 12 | 14.00 | | RTCB | 9.47 | 188 | ePc | 05 | 05.30 | -8.5X | | | | pP | 15 | 00.20 | 183km | |
| GYA | 41.09 | 321 | P | 12 | 08.40 | -0.1 | ZON | 9.51 | 188 | eP | 05 | 06.00 | -8.3X | GSC | 73.93 | 320 | eP | 14 | 18.00 | 0.5 | |
| CHG | 42.01 | 305 | eP | 12 | 16.10 | 0.1 | CFA | 9.53 | 185 | ePc | 05 | 06.50 | -8.0X | MWC | 73.97 | 318 | eP | 14 | 18.00 | 0.1 | |
| CHTO | 42.01 | 305 | iP | 12 | 15.90 | -0.1 | RTCV | 9.81 | 187 | ePd | 05 | 10.00 | -8.2X | PAS | 73.99 | 318 | eP | 14 | 18.00 | 0.2 | |
| | | | pP | 12 | 21.00 | 17kmX | MDZ | 10.85 | 187 | eP | 05 | 25.60 | -6.2X | NOP | 74.10 | 321 | P | 14 | 18.50 | 0.0 | |
| | | | sP | 12 | 29.90 | | JACH | 10.97 | 195 | eP | 05 | 26.00 | -7.4X | SBB | 74.14 | 319 | eP | 14 | 18.00 | -0.7 | |
| KMI | 42.78 | 316 | Pd | 12 | 22.00 | -0.5 | PEL | 11.43 | 195 | iPd | 05 | 32.60 | -6.8X | JON | 74.29 | 321 | P | 14 | 20.00 | 0.5 | |
| | | | sP | 12 | 35.00 | | FCH | 11.52 | 193 | eP | 05 | 36.00 | -4.8X | SPRG | 74.29 | 321 | P | 14 | 20.10 | 0.5 | |
| TIA | 44.00 | 340 | P | 12 | 30.60 | -1.4 | LCCH | 11.98 | 198 | iPd | 05 | 39.10 | -7.2X | DLM | 74.31 | 323 | P | 14 | 20.10 | 0.3 | |
| XAN | 45.58 | 330 | Pd | 12 | 43.90 | -0.8 | TACH | 11.98 | 195 | eP | 05 | 39.50 | -6.9X | LSM | 74.59 | 321 | P | 14 | 21.90 | 0.6 | |
| CD2 | 46.04 | 323 | eP | 12 | 47.80 | -0.6 | ITB1 | 12.06 | 105 | eP | 05 | 47.50 | 0.0 | CPX | 74.60 | 321 | P | 14 | 22.00 | 0.6 | |
| TIY | 47.07 | 336 | iPc | 12 | 56.40 | -0.1 | ITB | 12.25 | 105 | eP | 05 | 49.20 | -0.7 | LOP | 74.61 | 321 | P | 14 | 22.30 | 0.8 | |
| SNY | 47.60 | 349 | Pc | 13 | 00.00 | -0.5 | ITB7 | 12.34 | 107 | eP | 05 | 47.20 | -3.9X | CDH1 | 74.70 | 321 | P | 14 | 22.60 | 0.6 | |
| BJI | 47.79 | 341 | eP | 13 | 01.50 | -0.5 | LNv | 12.39 | 196 | eP | 05 | 44.00 | -7.5X | YMT3 | 74.71 | 321 | P | 14 | 22.60 | 0.7 | |
| CN2 | 49.22 | 352 | Pd | 13 | 12.00 | -0.9 | VBA | 16.54 | 165 | ePd | 06 | 36.10 | -7.3X | GMR | 74.71 | 322 | P | 14 | 22.80 | 0.7 | |
| MDJ | 49.57 | 356 | eP | 13 | 15.40 | -0.2 | BRAS | 20.03 | 95 | iPd | 07 | 08.40 | -12.9X | YMT6 | 74.75 | 321 | P | 14 | 22.90 | 0.7 | |
| LZH | 49.78 | 328 | eP | 13 | 18.00 | 0.4 | BMA | 21.34 | 96 | iPc | 07 | 34.40 | 0.3 | CLC | 74.75 | 320 | eP | 14 | 22.00 | -0.2 | |
| | 1.5s | 0.04nm | 2.3mb | X | | | | | | i | 07 | 39.60 | 19kmX | GLR | 74.76 | 321 | P | 14 | 23.10 | 0.8 | |
| HHC | 50.12 | 338 | Pd | 13 | 19.00 | -1.1 | | | | i | 07 | 46.80 | | BGB | 74.77 | 321 | P | 14 | 23.20 | 0.8 | |
| BTO | 50.51 | 336 | eP | 13 | 20.70 | -2.3 | ATB | 23.69 | 40 | Pc | 07 | 56.20 | -0.7 | YMT4 | 74.77 | 321 | P | 14 | 23.00 | 0.7 | |
| GTA | 54.39 | 327 | iPd | 13 | 52.20 | 0.1 | BIM | 36.87 | 10 | eP | 09 | 53.47 | 0.4 | | | | pP | 15 | 06.50 | 180km | |
| HYB | 59.25 | 294 | eP | 14 | 25.00 | -1.9 | MVM | 36.94 | 10 | eP | 09 | 54.30 | 0.7 | TBI | 74.78 | 251 | iP | 14 | 22.80 | 0.2 | |
| GBA | 59.27 | 289 | Pc | 14 | 29.60 | 2.6 | ATA | 43.19 | 178 | eP | 10 | 48.80 | 4.3X | | 0.8s | 45.00nm | | | 5.3mb | | |
| | 1.5s | 13.60nm | 4.9mb | | | | OHX | 48.47 | 321 | iPc | 11 | 27.50 | 0.6 | YMT5 | 74.81 | 321 | P | 14 | 23.20 | 0.6 | |
| WMO | 64.10 | 324 | P | 15 | 00.00 | 0.8 | HBF | 56.13 | 347 | P | 12 | 22.90 | -0.3 | TMBR | 74.86 | 321 | P | 14 | 23.50 | 0.6 | |
| SDN | 80.42 | 32 | eP | 16 | 36.00 | 0 | | | | | | | | | | | | | | | |

[illegible]

IIC 2.29 3 eP 15 15.00 -1.0
 SMMM 2.34 15 eP 15 18.00 1.6
 IISM 2.43 51 eP 15 17.00 -0.7
 OXX 2.56 98 iP 15 20.00 0.3
 S.D. = 1.4 on 7 of 8 obs.

* FEB 07, 1989 07h 51m 52.59±0.83s
 51.318 N ±16.5km 177.986 E ± 6.4km
 DEPTH = 33.0km (normal)
 4.6mb (7 obs.)

RAT ISLANDS, ALEUTIAN ISLANDS (6)
 ML 4.5 (PMR).

SMY 2.78 302 ePc 52 38.10 2.4
 ADK 3.37 78 ePc 52 45.10 0.9
 SVW 17.52 46 eP 55 59.70 4.0X
 KDC 18.20 58 eP 56 04.40 0.5
 PMS 20.35 48 eP 56 28.80 0.2
 IMA 20.58 33 ePc 56 31.10 0.1
 FBA 22.25 39 ePc 56 48.80 1.1
 INK 28.67 35 eP 57 47.00 -0.9
 MBC 34.42 22 eP 58 38.00 -0.3

0.8s 10.00nm 4.8mb
 YKA 36.73 46 P 58 58.80 0.8
 KVN 45.30 80 eP 00 09.50 0.5
 TNP 46.44 80 eP 00 18.50 0.4
 BW06 48.23 70 eP 00 31.50 -0.6
 FRB 54.11 30 eP 01 14.00 -1.9
 KJF 62.51 346 eP 02 13.00 -1.6

0.5s 8.40nm 5.1mb
 SUF 64.15 346 iP 02 24.80 -0.6
 0.6s 3.40nm 4.6mb

NAO 67.74 353 P 02 47.80 -0.6
 1.0s 5.60nm 4.6mb
 HFS 68.18 352 eP 02 50.40 -0.7

0.4s 1.40nm 4.4mb
 GUN 69.99 290 P 03 03.40 0.2
 KKN 70.44 290 P 03 05.90 0.2
 GKN 70.66 291 P 03 07.00 0.0

KHC 79.05 350 eP 03 54.60 0.0
 KBA 81.10 349 iPd 04 06.70 1.0
 1.0s 5.60nm 4.5mb

GBA 85.97 287 Pd 04 29.70 -1.0
 0.4s 0.80nm 4.3mb

S.D. = 1.0 on 23 of 24 obs.

FEB 07, 1989 09h 13m 09.69±0.58s
 51.297 N ±12.3km 177.895 E ± 5.0km
 DEPTH = 33.0km (normal)
 4.7mb (5 obs.)

RAT ISLANDS, ALEUTIAN ISLANDS (6)
 ML 4.6 (PMR).

SMY 2.75 303 eP 13 53.60 1.3
 ADK 3.43 78 ePc 14 03.10 1.0
 SVW 17.58 46 eP 17 14.80 1.3
 TTA 18.18 40 eP 17 22.50 1.6
 KDC 18.26 58 eP 17 21.10 -0.6
 PMS 20.41 48 eP 17 46.10 -0.2
 IMA 20.63 33 ePc 17 48.20 -0.4
 TOA 22.18 47 eP 18 04.70 0.5
 FBA 22.30 39 ePc 18 05.90 0.6
 INK 28.72 35 eP 19 05.00 -0.5
 MBC 34.46 22 eP 19 55.00 -0.8

0.8s 9.00nm 4.8mb
 YKA 36.78 46 P 20 15.50 -0.1
 BJI 43.36 280 eP 21 11.00 0.8

KVN 45.36 80 eP 21 27.00 0.4
 HHC 45.71 284 eP 21 30.00 0.8
 SSE 45.92 267 eP 21 31.80 1.0

TNP 46.50 80 eP 21 36.00 0.4
 BW06 48.29 70 eP 21 48.50 -1.2
 PLM 49.76 85 eP 22 05.00 4.0X

RSON 52.18 53 eP 22 16.00 -3.0X
 GTA 53.66 290 P 22 29.70 -0.5
 FRB 54.16 30 eP 22 32.00 -1.3

KJF 62.52 346 eP 23 31.00 -0.8
 SUF 64.16 346 iP 23 41.90 -0.7
 0.5s 3.50nm 4.7mb

NUR 66.49 346 iP 23 56.80 -0.7
 NAO 67.75 353 P 24 04.80 -0.7
 1.0s 7.90nm 4.8mb

GUN 69.95 290 P 24 20.40 0.4
 KKN 70.39 290 P 24 22.80 0.2
 PKI 70.48 290 P 24 23.30 0.1

GKN 70.61 291 P 24 23.80 0.0
 ZST 79.53 347 eP 25 14.60 0.4

KBA 81.11 349 eP 25 22.50 -0.4
 0.9s 8.80nm 4.8mb
 GBA 85.97 287 Pc 25 45.50 -2.1
 0.9s 2.90nm 4.5mb
 S.D. = 0.9 on 31 of 33 obs.

FEB 07, 1989 09h 52m 48.71±0.92s
 41.938 N ± 9.2km 20.107 E ± 6.5km
 DEPTH = 10.0km (geophysicist)

ALBANIA (391)

PUK 0.19 303 ePg 52 53.00 0.1
 KKS 0.26 59 ePg 52 55.00 0.7
 PHP 0.35 135 iPg 52 55.00 -1.0

LACI 0.42 225 iPg 52 58.60 1.2
 BCI 0.43 356 iPg 53 05.60 8.1X
 SDA 0.46 280 ePg 52 57.00 -1.1

SKO 0.99 88 iPg 53 21.50 13.9X
 S.D. = 1.4 on 5 of 7 obs.

* FEB 07, 1989 11h 49m 09.46s
 39.002 N 111.492 W
 DEPTH = 4.4km

UTAH (478)

<SLC-P>. MD 3.2 (SLC).

MSU 0.72 228 eP 49 23.00 -0.9
 DUG 1.57 320 eP 49 36.40 -1.8
 RW1 2.99 103 eP 50 00.30 1.5

RW4 3.15 104 eP 50 01.60 0.5
 BW06 4.05 21 eP 50 12.80 -0.9
 GOL 4.80 80 eP 50 26.00 1.6

KVN 5.15 273 eP 50 29.00 -0.3
 ALQ 5.71 134 eP 50 36.20 -1.1
 8 obs. associated

* FEB 07, 1989 12h 41m 44.23±1.29s
 27.313 S ±13.5km 177.146 W ± 7.3km
 DEPTH = 166.9 ± 12.8 km

4.9mb (9 obs.)

KERMADEC ISLANDS REGION (177)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 11S, 21C

Centroid Location:

Origin Time 12:41:45.4 0.9

Lat 26.52S 0.11 Lon 177.22W 0.05

Dep 110.3 2.9 Half-duration 1.7

Moment Tensor: Scale 10¹⁷ Nm

Mrr=-0.26 0.06 Mtt=0.19 0.11

Mff=-0.45 0.09 Mrt=-0.59 0.06

Mrf=1.13 0.06 Mtf=-0.88 0.09

Principal Axes:

T Vol=1.74 Plg=39 Azm=225

N -0.35 38 355

P -1.39 28 109

Best Double Couple: Mo=1.6*10¹⁷

NP1: Strike=251 Dip=39 Slip=169

NP2: 349 83 52

RAO 2.05 199 iP 42 20.90 -0.4

WEL 15.45 203 eP 45 14.00 -0.4

DZM 15.80 286 iPd 45 19.50 0.5

RAR 16.96 73 P 45 27.00 -6.1X

BRS 26.69 263 iPc 47 10.70 1.0

COO 27.25 256 eP 47 17.00 2.3

CNB 29.60 246 iPc 47 38.20 2.5

RMO 30.37 264 iPd 47 43.90 1.4

TOO 32.96 242 eP 48 07.00 2.0

ADE 38.30 247 iPc 48 51.30 1.1

OIS 39.95 270 eP 49 02.00 -1.8

ASPA 44.12 263 iPc 49 37.30 -0.5

Z 20s 0.45um 4.4Msz

WB5 44.82 269 iPc 49 41.90 -1.5

WRA 44.82 269 Pd 49 42.50 -0.9

FORR 47.59 252 eP 50 04.00 -0.9

MTN 50.33 276 eP 50 24.00 -2.1

KNA 51.27 271 eP 50 31.90 -1.3

COOL 53.44 250 eP 50 48.00 -1.2
 KLB 56.10 249 eP 51 08.00 -0.4
 RKG 56.17 246 eP 51 08.00 -0.8
 NWA0 56.23 247 eP 51 09.00 -0.3
 MEKA 56.73 255 eP 51 12.00 -0.9

0.4s 7.00nm 4.9mb
 BAL 57.22 250 eP 51 16.00 -0.2
 MUN 57.30 248 eP 51 17.00 0.3

NANU 60.58 258 eP 51 39.00 -0.5
 0.5s 29.00nm 5.4mb
 SPA 62.84 180 e(P) 51 58.90 4.7X

1.0s 46.50nm 5.3mb
 MAW 75.45 200 eP 53 15.50 4.6X
 SYP 81.91 44 eP 53 47.00 0.6

PRS 82.25 42 ePc 53 48.10 0.1
 e 54 14.60
 SBB 83.36 46 eP 53 54.00 0.2

e 54 23.00
 ISA 83.58 44 eP 53 56.00 1.1
 e 54 23.00

FRI 83.68 43 ePc 53 55.80 0.5
 e 54 23.30
 CMB 83.97 42 ePc 53 56.20 -0.6

e 54 23.20
 TPC 84.14 47 eP 53 58.00 0.3
 e 54 26.00

CLC 84.23 45 eP 53 59.00 0.9
 e 54 26.00
 ORV 84.34 40 e(P) 53 58.40 -0.1

e 54 25.40
 WDC 84.45 39 ePc 53 59.10 0.1
 e 54 25.80

NOP 85.33 45 P 54 03.30 -0.4
 pP 54 32.50 112kmX
 TNP 85.90 43 P 54 05.90 -0.7

0.8s 6.37nm 4.5mb
 pP 54 35.00 111kmX
 KVN 85.99 42 P 54 06.20 -0.8

pP 54 35.00 110kmX
 WHN 87.10 307 eP 54 13.00 0.7
 CN2 88.15 322 eP 54 15.60 -1.4

TIA 88.43 312 eP 54 17.50 -1.0
 MSU 89.30 45 P 54 24.00 1.1
 pP 54 52.60 108kmX

ALQ 91.06 51 eP 54 31.00 0.0
 0.9s 7.77nm 4.8mb
 epP 55 00.00 110kmX

BJI 91.26 315 eP 54 31.00 -0.5
 TIY 92.38 312 eP 54 37.20 0.3
 XAN 92.85 307 eP 54 41.70 2.6

CHG 93.26 289 eP 54 43.00 1.8
 CHTO 93.26 289 eP 54 42.20 1.0
 BW06 93.39 43 P 54 41.00 -0.6

0.9s 4.77nm 4.7mb
 pP 55 10.00 110kmX
 MEO 96.54 54 eP 54 55.70 -0.2

0.8s 4.50nm 4.9mb
 KJF 139.79 343 ePKP 00 52.00 -1.2
 TIY 141.41 343 iPKP 00 50.80 -5.3X

MSL 144.81 295 ePKP 01 03.00 0.2
 NBO 145.86 353 PKP 01 03.20 -0.6
 0.8s 17.40nm

HFS 146.36 350 ePKP 01 04.30 -0.3
 0.4s 10.40nm
 MBH 151.81 283 ePKP 01 22.00 8.0X

BNG 152.76 216 ePKPd 01 18.00 2.2X
 0.2s 20.00nm
 id 01 25.60

id 01 37.20
 VRI 153.51 321 ePKP 01 23.00 7.1X
 MLR 154.18 321 ePKP 01 25.50 8.5X

e 17 36.50
 CLL 154.83 345 i(PKP) 01 27.10 9.6X
 e 02 08.00

S.D. = 1.1 on 53 of 62 obs.

FEB 07, 1989 13h 35m 27.58±0.17s
 23.728 S ± 6.0km 179.885 E ± 4.1km
 DEPTH = 562.9km (3 depth phases)

5.2mb (23 obs.)

SOUTH OF FIJI ISLANDS (171)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 8S, 15C

Centroid Location:

Origin Time 13:35:37.5 0.7

Lat 23.05S 0.09 Lon 179.61E 0.05

07d 13h

| | | | | | | | | | | |
|-----------------------------------|------|-------|---------|----------|-------|------|--------|-----------|----------|-------|
| Dep 548.9 3.1 Half-duration 1.8 | SYP | 81.31 | 46 eP | 46 47.00 | 0.2 | LRM | 92.43 | 40 eP | 47 39.40 | -0.3 |
| Moment Tensor: Scale 10**17 Nm | PRS | 81.49 | 44 iPc | 46 47.90 | 0.4 | BW06 | 92.65 | 44 P | 47 41.00 | 0.3 |
| Mrr= 1.45 0.08 Mtt= 0.33 0.17 | GCC | 81.52 | 43 ePc | 46 47.90 | 0.3 | | | pP | 49 45.00 | 563km |
| Mff=-1.79 0.13 Mrt= 0.63 0.11 | PCC | 81.57 | 43 ePc | 46 48.00 | 0.2 | LZH | 93.18 | 308 P | 47 44.50 | 1.3 |
| Mrf= 0.27 0.11 Mtr= 0.13 0.08 | SAO | 81.71 | 44 ePc | 46 48.70 | 0.1 | GOL | 93.93 | 48 P | 47 46.00 | -0.7 |
| Principal Axes: | PHAM | 81.82 | 45 P | 46 49.60 | 0.4 | GLD | 94.05 | 48 P | 47 47.20 | 0.0 |
| T Val= 1.76 Plg=65 Azm=348 | PR1 | 81.83 | 45 ePc | 46 49.90 | 0.5 | | 0.8s | 23.53nm | | 5.4mb |
| N 0.05 24 180 | NWRM | 81.86 | 42 P | 46 49.60 | 0.4 | SES | 95.62 | 37 eP | 47 54.00 | 0.2 |
| P -1.81 4 88 | BRK | 81.88 | 43 ePc | 46 49.70 | 0.3 | INK | 97.89 | 16 eP | 48 02.50 | -1.1 |
| Best Double Couple: Mo=1.8*10**17 | BKS | 81.90 | 43 ePc | 46 49.80 | 0.3 | YKA | 100.25 | 25 Pdiff | 48 15.00 | 0.7 |
| NP1: Strike=154 Dip=46 Slip= 55 | | 0.7s | 61.00nm | | 5.2mb | GKN | 105.13 | 294 PKP | 52 47.30 | -0.9 |
| NP2: 19 54 120 | MHC | 81.94 | 43 ePc | 46 50.40 | 0.5 | MBC | 106.34 | 13 ePKP | 52 47.00 | -1.8 |
| | LLA | 81.94 | 44 ePc | 46 50.00 | 0.2 | FRB | 120.54 | 29 ePKP | 53 13.00 | -3.1X |
| PVC | ABL | 82.01 | 47 P | 46 50.20 | -0.2 | FRS | 121.48 | 206 iPKPc | 53 19.80 | 0.8 |
| DZM | ARN | 82.01 | 43 P | 46 50.60 | 0.5 | | 0.4s | 12.71nm | | |
| AFI | MDJ | 82.06 | 326 eP | 46 51.00 | 0.8 | DAG | 126.11 | 5 ePKP | 53 24.80 | -1.8 |
| KRP | PAS | 82.30 | 48 eP | 46 52.00 | 0.4 | MHI | 127.62 | 298 ePKP | 53 32.00 | 1.2 |
| | MWC | 82.42 | 48 eP | 46 52.00 | -0.5 | BUL | 128.18 | 215 ePKP | 53 32.00 | -0.4 |
| WEL | BAR | 82.50 | 50 eP | 46 54.00 | 1.3 | | 0.8s | 7.84nm | | |
| | FHC | 82.69 | 39 ePc | 46 54.30 | 0.9 | KEV | 131.23 | 348 ePKP | 53 29.00 | -7.5X |
| HNR | PLM | 82.75 | 49 eP | 46 54.00 | -0.1 | | 0.7s | 18.70nm | | |
| BRS | RVR | 82.76 | 48 eP | 46 53.00 | -0.9 | | | i | 53 37.00 | |
| | WHN | 82.81 | 308 P | 46 55.50 | 1.3 | SOD | 133.29 | 346 ePKP | 53 35.00 | -5.5X |
| COO | | | iS | 56 33.00 | | | | e | 53 39.00 | |
| | PEC | 82.85 | 48 P | 46 54.40 | 0.0 | KJF | 135.60 | 343 ePKP | 53 36.00 | -8.9X |
| | SBB | 82.85 | 47 eP | 46 54.00 | -0.4 | | | e | 53 46.00 | |
| RMQ | FRI | 82.95 | 45 iPc | 46 54.90 | 0.1 | SUF | 137.21 | 343 ePKP | 53 39.00 | -9.0X |
| | ISA | 82.98 | 46 eP | 46 55.00 | -0.1 | | 0.3s | 2.20nm | | |
| CNB | CMB | 83.15 | 43 iPc | 46 55.90 | 0.1 | NUR | 139.42 | 341 ePKP | 53 46.00 | -6.1X |
| | ORV | 83.38 | 42 ePc | 46 56.90 | 0.0 | | 0.6s | 15.60nm | | |
| | WDC | 83.40 | 40 iPc | 46 57.30 | 0.4 | | | e | 53 52.00 | |
| CAN | LTCM | 83.41 | 41 P | 46 57.20 | 0.2 | NBO | 141.97 | 351 PKP | 53 52.20 | -4.4X |
| BWA | SNY | 83.45 | 321 iPc | 46 57.50 | 0.4 | | 0.8s | 15.10nm | | |
| CTA | CLC | 83.65 | 47 eP | 46 58.00 | -0.4 | NRA0 | 142.14 | 351 PKP | 53 51.80 | -5.1X |
| | CN2 | 83.69 | 324 Pc | 46 58.80 | 0.5 | HFS | 142.36 | 349 ePKP | 53 52.20 | -5.1X |
| | TPC | 83.73 | 49 eP | 46 59.00 | 0.2 | | 0.3s | 35.10nm | | |
| | GSC | 83.89 | 47 eP | 47 00.00 | 0.4 | EDU | 147.15 | 3 ePKPc | 54 11.20 | 5.8X |
| | TIA | 84.04 | 314 P | 47 01.20 | 1.0 | | 0.5s | 42.00nm | | |
| TOO | KDC | 84.39 | 14 ePc | 47 01.20 | -0.2 | ELO | 147.19 | 4 ePKPc | 54 11.20 | 5.7X |
| | NOP | 84.79 | 47 P | 47 03.90 | -0.1 | GLH | 147.36 | 294 ePKP | 54 11.00 | 4.6X |
| TAU | MZP | 84.87 | 45 P | 47 04.00 | -0.6 | EBH | 147.42 | 4 ePKPc | 54 11.90 | 6.1X |
| PMG | YMT3 | 84.99 | 46 P | 47 05.00 | 0.0 | | 0.6s | 57.00nm | | |
| | YMT4 | 85.00 | 46 P | 47 05.00 | 0.0 | EAB | 147.43 | 4 ePKPc | 54 12.00 | 6.2X |
| | YMT5 | 85.02 | 46 P | 47 04.90 | -0.3 | EDI | 147.76 | 3 ePKPc | 54 13.40 | 7.1X |
| STK | YMT6 | 85.03 | 46 P | 47 05.10 | -0.1 | ESY | 147.79 | 3 ePKPc | 54 12.90 | 6.5X |
| QIS | LSM | 85.05 | 46 P | 47 05.40 | 0.1 | | 0.7s | 67.00nm | | |
| | CDH1 | 85.09 | 46 P | 47 05.50 | 0.0 | EAU | 147.83 | 4 ePKPc | 54 13.20 | 6.7X |
| ASPA | TMBR | 85.14 | 46 P | 47 05.30 | -0.5 | | 0.6s | 84.00nm | | |
| | KVN | 85.19 | 44 P | 47 05.80 | -0.2 | EBL | 147.92 | 3 ePKPc | 54 13.30 | 6.7X |
| | | | pP | 49 08.30 | 564km | ZNT | 147.94 | 293 ePKP | 54 12.00 | 4.6X |
| | TNP | 85.20 | 45 P | 47 05.80 | -0.3 | DOR | 148.31 | 292 ePKP | 54 13.00 | 4.9X |
| | | 0.8s | 20.59nm | | 4.8mb | EKA | 148.35 | 3 PKPd | 54 11.10 | 3.8X |
| WB5 | BGB | 85.25 | 46 P | 47 06.10 | -0.2 | | 0.5s | 13.10nm | | |
| | CPX | 85.30 | 46 P | 47 06.30 | -0.2 | VRI | 149.05 | 322 ePKPd | 54 14.00 | 5.3X |
| | SPRG | 85.34 | 47 P | 47 07.00 | 0.3 | KRA | 149.41 | 334 iPKP | 54 14.60 | 5.5X |
| | GLR | 85.48 | 46 P | 47 07.20 | -0.2 | | 1.0s | 74.00nm | | |
| WRA | GMR | 85.72 | 46 P | 47 08.30 | -0.2 | | | e | 54 20.10 | |
| | OCS | 85.87 | 46 P | 47 08.80 | -0.5 | DMU | 149.44 | 8 iPKPc | 54 13.60 | 4.6X |
| FORR | PRN | 86.24 | 46 P | 47 11.40 | 0.4 | | 0.8s | 120.00nm | | |
| | DLM | 86.55 | 46 P | 47 12.70 | 0.1 | AKSR | 149.69 | 277 ePKP | 54 16.90 | 6.6X |
| MTN | SVW | 86.83 | 12 ePc | 47 12.30 | -0.9 | MLR | 149.71 | 322 ePKPc | 54 15.00 | 5.1X |
| WARB | BJI | 86.83 | 316 eP | 47 14.50 | 0.9 | DCN | 149.93 | 9 ePKP | 54 14.80 | 5.1X |
| | | | eS | 57 08.00 | | | 0.8s | 79.00nm | | |
| KNA | SHW | 87.09 | 36 P | 47 16.00 | 1.1 | AKUR | 149.94 | 277 iPKPd | 54 17.50 | 6.9X |
| HON | VGB | 87.47 | 37 P | 47 16.80 | 0.3 | SPC | 149.96 | 333 iPKP | 54 17.00 | 6.8X |
| OPA | GMW | 87.66 | 35 P | 47 17.50 | 0.2 | | | e | 56 24.70 | |
| GUA | LON | 87.67 | 36 P | 47 17.30 | -0.2 | DLE | 150.08 | 8 ePKP | 54 14.90 | 4.9X |
| | TIY | 87.99 | 313 Pc | 47 20.60 | 1.4 | KSP | 150.09 | 339 ePKP | 54 11.50 | 1.4 |
| GUMO | PGC | 88.02 | 34 eP | 47 20.00 | 1.1 | | 0.7s | 80.00nm | | |
| PJG | RMW | 88.12 | 35 P | 47 19.70 | 0.1 | | | ic | 54 16.10 | |
| COOL | TTA | 88.46 | 11 ePc | 47 20.40 | -0.4 | | | e | 56 22.50 | |
| KLK | XAN | 88.55 | 308 Pc | 47 23.30 | 1.5 | | | id | 56 26.70 | |
| MEKA | PMR | 88.61 | 14 ePc | 47 20.50 | -0.8 | AGMR | 150.12 | 276 iPKPd | 54 17.00 | 6.1X |
| | | 0.7s | 20.00nm | | 5.1mb | WIT | 150.50 | 352 ePKP | 54 17.50 | 6.9X |
| NWAO | MSU | 88.75 | 47 P | 47 23.40 | 0.6 | CLL | 150.66 | 343 ePKP | 54 11.00 | 0.1 |
| RKG | KMI | 89.09 | 298 Pc | 47 26.00 | 1.3 | | 1.0s | 95.00nm | | |
| | CHG | 89.52 | 291 iPc | 47 28.90 | 2.4 | | | i | 54 17.10 | |
| BAL | | 1.0s | 15.00nm | | 4.9mb | | | pPKP | 56 27.00 | |
| MUN | CHTO | 89.52 | 291 iP | 47 28.00 | 1.5 | PSZ | 151.08 | 332 ePKP | 54 18.00 | 6.2X |
| MRWA | | 1.0s | 11.50nm | | 4.8mb | WTS | 151.28 | 351 ePKP | 54 18.00 | 6.2X |
| NANU | | | pP | 49 31.20 | 561km | | 0.7s | 58.00nm | | |
| | CD2 | 90.90 | 303 eP | 47 34.80 | 2.1 | MOX | 151.62 | 344 ePKP | 54 19.00 | 6.6X |
| SPA | ALQ | 90.93 | 52 eP | 47 32.60 | -0.3 | | 1.4s | 41.00nm | | |
| | | 0.9s | 10.29nm | | 4.9mb | | | e | 54 30.00 | |
| ADK | IMA | 91.75 | 10 eP | 47 35.30 | -0.6 | | | ePKP | 56 29.00 | |
| | | 1.6s | 32.30nm | | 5.1mb | MOX | 151.62 | 344 ePKP | 54 13.00 | 0.6 |
| SDN | | | | | | SRO | 151.84 | 333 ePKP | 54 19.60 | 6.9X |
| BLP | FBA | 91.81 | 13 ePc | 47 34.30 | -1.7 | | | | | |

| | | | | | |
|-------------------------------|--------|-----------|----|-------|--------|
| | | e | 54 | 32.10 | |
| | | e | 56 | 26.70 | |
| BZS | 151.95 | 326 ePKPc | 54 | 21.00 | 8.0X |
| ZST | 152.02 | 335 ePKP | 54 | 14.10 | 1.1 |
| | | e | 54 | 20.30 | |
| | | i | 54 | 32.70 | |
| | | e | 56 | 29.70 | |
| KHC | 152.45 | 340 PKP | 54 | 13.40 | -0.2 |
| | | i | 54 | 21.50 | |
| ENN | 152.60 | 352 ePKP | 54 | 21.50 | 7.8X |
| | 0.7s | 32.00nm | | | |
| | | i | 54 | 34.50 | |
| TNS | 152.72 | 348 ePKPc | 54 | 22.10 | 8.1X |
| MEM | 152.75 | 351 PKP | 54 | 21.30 | 7.4X |
| GRB5 | 153.01 | 343 ePKP | 54 | 22.30 | 7.9X |
| | 0.7s | 26.00nm | | | |
| Z | 21s | 0.90um | | | 5.6Msz |
| | | e | 54 | 37.20 | |
| DOU | 153.42 | 353 PKP | 54 | 23.90 | 9.0X |
| | | e | 54 | 34.80 | |
| BNG | 153.69 | 226 ePKPd | 54 | 16.50 | 0.1 |
| | 0.8s | 11.00nm | | | |
| | | id | 54 | 25.80 | |
| | | ic | 54 | 41.10 | |
| KBA | 154.32 | 338 ePKP | 54 | 19.00 | 2.6X |
| | 0.7s | 5.70nm | | | |
| | | e | 54 | 25.00 | |
| | | i | 54 | 29.00 | |
| | | i | 54 | 42.30 | |
| PTJ | 154.34 | 333 ePKP | 54 | 02.30 | -14.1X |
| LIC | 161.97 | 164 PKP | 54 | 26.00 | 0.1 |
| KIC | 162.17 | 165 PKP | 54 | 26.10 | 0.0 |
| TIC | 162.37 | 164 PKP | 54 | 26.20 | -0.1 |
| S.D. = 0.9 on 140 of 186 obs. | | | | | |

FEB 07, 1989 14h 07m 35.12±0.82s
 39.662 N ± 7.9km 19.666 E ± 7.5km
 DEPTH = 10.0km (geophysicist)
 GREECE-ALBANIA BORDER REGION (392)
 MD 3.4 (ATH).

| | | | | | |
|-----------------------------|------|---------|----|-------|------|
| SRN | 0.34 | 50 iPg | 07 | 43.80 | 1.7 |
| TPE | 0.69 | 23 iPg | 07 | 47.50 | -1.2 |
| LSK | 0.87 | 56 iPg | 07 | 50.70 | -1.2 |
| BERA | 1.06 | 12 ePg | 07 | 55.90 | 0.8 |
| VLS | 1.65 | 154 ePb | 08 | 05.50 | 1.3 |
| | | eSb | 08 | 27.70 | |
| OHR | 1.69 | 31 iPn | 08 | 04.60 | -0.2 |
| TIR | 1.69 | 5 ePn | 08 | 05.80 | 1.0 |
| KZN | 1.74 | 68 ePb | 08 | 05.50 | -0.1 |
| LACI | 1.97 | 1 ePn | 08 | 09.00 | 0.1 |
| PHP | 2.11 | 16 ePn | 08 | 13.60 | 2.8X |
| BRT | 2.24 | 304 P | 08 | 21.10 | 8.3X |
| | | eSn | 08 | 46.30 | |
| SDA | 2.36 | 357 ePn | 08 | 23.10 | 8.7X |
| PUK | 2.38 | 4 ePn | 08 | 13.00 | -1.8 |
| KKS | 2.48 | 13 ePn | 08 | 16.50 | 0.4 |
| SKO | 2.67 | 30 ePn | 08 | 22.50 | 3.5X |
| BCI | 2.72 | 6 ePn | 08 | 26.30 | 6.7X |
| VAY | 2.77 | 52 ePn | 08 | 21.70 | 1.4 |
| NEO | 2.78 | 96 ePg | 08 | 26.30 | 5.8X |
| PLG | 2.99 | 75 ePn | 08 | 21.50 | -1.9 |
| MGR | 3.20 | 280 P | 08 | 27.90 | 1.5 |
| | | eSn | 08 | 58.80 | |
| ATN | 3.60 | 247 P | 08 | 30.40 | -1.8 |
| | | eSn | 09 | 01.80 | |
| S.D. = 1.4 on 15 of 21 obs. | | | | | |

FEB 07, 1989 15h 08m 59.04±1.09s
 3.381 S ± 5.9km 148.809 E ± 8.9km
 DEPTH = 38.0 ± 11.1 km
 4.9mb (5 obs.) 5.2Msz (6 obs.)
 BISMARCK SEA (203)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 27C
 Centroid Location:
 Origin Time 15:09:11.5 1.0
 Lat 2.49S 0.07 Lon 148.59E 0.06
 Dep 15.0 FIX Half-duration 2.5
 Moment Tensor: Scale 10**17 Nm
 Mrr=-0.24 0.10 Mtt=1.83 0.11
 Mff=-1.59 0.13 Mrt=-0.49 0.44
 Mrf=0.88 0.30 Mtf=2.41 0.10
 Principal Axes:
 T Vol= 3.08 Plg= 0 Azm=153
 N 0.11 71 244

| | | | | | |
|-----------------------------------|-------|----------|----|-------|---------|
| | P | -3.18 | 19 | 63 | |
| Best Double Couple: Mo=3.1*10**17 | | | | | |
| NP1: Strike=199 Dip=76 Slip=-167 | | | | | |
| NP2: 106 77 -14 | | | | | |
| RAB | 3.45 | 104 eP | 09 | 51.00 | -0.7 |
| | 0.6s | 117.33nm | | | |
| LAT | 3.72 | 209 eP | 09 | 55.00 | -0.5 |
| LMG | 5.53 | 187 e(P) | 10 | 22.00 | 0.8 |
| MNDI | 5.83 | 242 eP | 10 | 28.00 | 2.5 |
| PMG | 6.21 | 195 eP | 10 | 32.00 | 1.2 |
| | 0.8s | 62.69nm | | | 5.3mb |
| TZZ | 7.80 | 256 eP | 10 | 03.00 | -50.0X |
| JAY | 8.14 | 276 ePd | 11 | 04.50 | 6.7X |
| | 1.0s | 55.40nm | | | 5.5mb |
| GUA | 17.25 | 347 e(P) | 12 | 59.20 | 0.4 |
| Z | 22s | 11.11um | | | |
| GUM0 | 17.31 | 347 e(P) | 12 | 57.20 | -2.4 |
| PJG | 17.31 | 347 e(P) | 12 | 58.00 | -1.6 |
| QIS | 19.28 | 207 eP | 13 | 23.00 | -0.7 |
| | | e | 13 | 27.00 | |
| MTN | 19.85 | 241 eP | 13 | 27.00 | -2.9 |
| AAI | 20.58 | 269 eP | 13 | 40.00 | 2.5 |
| WB5 | 21.62 | 220 eP | 13 | 46.50 | -1.6 |
| | | e | 13 | 49.90 | |
| WRA | 21.69 | 219 Pd | 13 | 46.80 | -1.9 |
| | 1.4s | 47.10nm | | | 4.7mb |
| RMO | 22.98 | 180 eP | 14 | 02.00 | 0.6 |
| BR5 | 24.18 | 171 iPc | 14 | 13.40 | 0.3 |
| | | i | 14 | 18.00 | |
| | | i | 14 | 26.30 | |
| | | i | 14 | 35.00 | |
| | | eS | 18 | 24.00 | |
| | | e(SS) | 18 | 46.00 | |
| ASPA | 24.79 | 214 iPd | 14 | 18.90 | -0.1 |
| Z | 22s | 6.34um | | | 5.1MszX |
| | | eS | 18 | 47.30 | |
| | | LR | 23 | 52.70 | |
| DZM | 25.26 | 139 iPc | 14 | 24.00 | 0.4 |
| DAV | 25.41 | 294 eP | 14 | 28.00 | 3.0X |
| BWA | 30.89 | 181 eP | 15 | 14.20 | -0.1 |
| CAN | 31.78 | 180 eP | 15 | 12.50 | -9.7X |
| FORR | 33.60 | 213 eP | 15 | 37.00 | -0.9 |
| BAG | 34.13 | 306 eP | 15 | 38.00 | -5.0X |
| | | eS | 21 | 06.00 | |
| SSE | 43.23 | 324 eP | 17 | 00.00 | 1.6 |
| Z | 22s | 3.43um | | | 5.2Msz |
| N | 22s | 0.41um | | | |
| E | 22s | 2.98um | | | |
| | | eS | 23 | 24.00 | |
| QIZ | 44.33 | 302 P | 17 | 07.40 | -0.2 |
| E | 17s | 1.40um | | | |
| | | eS | 23 | 42.00 | |
| | | SS | 26 | 57.00 | |
| NJ2 | 45.29 | 323 eP | 17 | 10.00 | -5.0X |
| N | 16s | 1.00um | | | |
| E | 17s | 1.60um | | | |
| | | S | 24 | 00.00 | |
| WHN | 47.12 | 318 eP | 17 | 26.00 | -3.5X |
| Z | 20s | 3.43um | | | 5.3Msz |
| E | 20s | 2.98um | | | |
| | | S | 24 | 24.00 | |
| TIA | 49.27 | 326 eP | 17 | 46.30 | 0.2 |
| Z | 35s | 2.50um | | | 5.0MszX |
| N | 16s | 1.10um | | | |
| E | 16s | 1.10um | | | |
| | | eS | 24 | 53.00 | |
| GYA | 50.39 | 309 P | 17 | 57.80 | 2.7 |
| SNY | 50.51 | 336 eP | 17 | 56.40 | 0.9 |
| Z | 30s | 2.50um | | | 5.0MszX |
| N | 28s | 1.70um | | | |
| E | 26s | 1.40um | | | |
| | | S | 25 | 10.00 | |
| MDJ | 50.78 | 342 eP | 17 | 58.00 | 0.4 |
| Z | 30s | 2.60um | | | 5.1MszX |
| | | S | 25 | 08.00 | |
| CN2 | 51.45 | 338 eP | 17 | 56.50 | -6.2X |
| Z | 28s | 2.40um | | | 5.1MszX |
| N | 15s | 0.80um | | | |
| NST | 51.74 | 293 iPc | 18 | 05.00 | -0.3 |
| BJI | 52.56 | 329 eP | 18 | 11.00 | -0.1 |
| Z | 28s | 2.50um | | | 5.1MszX |
| N | 20s | 2.40um | | | |
| XAN | 52.88 | 318 Pd | 18 | 13.80 | 0.1 |
| KMI | 52.91 | 305 eP | 18 | 16.00 | 1.8 |
| Z | 20s | 2.10um | | | 5.2Msz |
| TIY | 53.00 | 324 eP | 18 | 14.30 | -0.2 |

| | | | | | |
|-------|------------------------------|-----------|--------|------------------|---------|
| | N | 18 s | 2.40um | | |
| CHG | 53.79 | 296 eP | 18 | 20.00 | -0.5 |
| CHTO | 53.79 | 296 eP | 18 | 19.80 | -0.7 |
| | 1.2s | 8.68nm | | | 4.6mb |
| CD2 | 54.81 | 312 eP | 18 | 27.40 | -0.5 |
| Z | 20s | 1.80um | | | 5.1Msz |
| HHC | 55.62 | 326 eP | 18 | 31.00 | -2.7 |
| Z | 28s | 3.10um | | | 5.2MszX |
| | | S | 26 | 22.00 | |
| BTO | 56.32 | 325 eP | 18 | 39.50 | 0.8 |
| Z | 20s | 3.30um | | | 5.4Msz |
| E | 20s | 1.70um | | | |
| LZH | 57.47 | 317 eP | 18 | 48.00 | 1.0 |
| | 2.5s | 0.08nm | | | 2.3mb X |
| Z | 42s | 2.60um | | | 5.0MszX |
| GTA | 61.94 | 319 eP | 19 | 18.00 | 0.3 |
| Z | 24s | 2.70um | | | 5.3MszX |
| E | 12s | 0.50um | | | |
| GUN | 67.99 | 302 P | 19 | 56.20 | -1.1 |
| PKI | 68.29 | 301 P | 19 | 58.00 | -1.2 |
| KKK | 68.47 | 302 P | 19 | 59.00 | -1.1 |
| DMN | 68.56 | 301 P | 20 | 00.20 | -0.6 |
| GKN | 69.07 | 302 P | 19 | 55.80 | -8.0X |
| WMQ | 72.02 | 318 eP | 20 | 22.30 | 1.0 |
| HYB | 72.27 | 289 eP | 20 | 21.50 | -1.6 |
| GBA | 72.76 | 285 P | 20 | 26.00 | 0.0 |
| | 0.9s | 6.30nm | | | 4.6mb |
| KSH | 78.98 | 311 eP | 21 | 03.50 | 2.5 |
| INK | 88.57 | 21 eP | 21 | 49.00 | 0.1 |
| YKA | 96.03 | 28 P | 22 | 25.90 | 2.5 |
| CNCB | 138.49 | 120 ePKP | 28 | 24.00 | -0.3 |
| LPB | 138.51 | 120 (PKP) | 28 | 35.00 | 10.9X |
| ZOBO | 138.60 | 119 ePKP | 28 | 28.00 | 3.5X |
| Z | 22s | 0.32um | | | 5.0Msz |
| | | LR | 15 | 52.00 | |
| KIC | 153.48 | 277 PKP | 28 | 58.80 | 10.7X |
| | S.D. = 1.4 | on 48 | of 60 | obs. | |
| ----- | | | | | |
| ? | FEB 07, 1989 | 16h | 21m | 03.52± | 2.36s |
| | 11.242 N ±10.2km | | | 61.924 W ±38.6km | |
| | DEPTH = 33.0km | | | (normal) | |
| | WINDWARD ISLANDS | | | | (95) |
| TCE | 0.57 | 163 eP | 21 | 14.77 | -0.3 |
| | | eS | 21 | 23.65 | |
| TRN | 0.78 | 139 eP | 21 | 16.84 | -1.2 |
| | | eS | 21 | 27.10 | |
| GRW | 0.95 | 16 eP | 21 | 20.56 | 0.0 |
| | | eS | 21 | 32.27 | |
| TPP | 1.03 | 153 eP | 21 | 22.54 | 0.9 |
| | | eS | 21 | 37.24 | |
| TBH | 1.13 | 132 eP | 21 | 23.75 | 0.7 |
| | | eS | 21 | 37.80 | |
| | S.D. = 1.2 | on 5 | of 5 | obs. | |
| ----- | | | | | |
| | FEB 07, 1989 | 17h | 34m | 38.94± | 1.03s |
| | 34.106 N ± 7.8km | | | 26.313 E ± 9.8km | |
| | DEPTH = 10.0km | | | (geophysicist) | |
| | CRETE | | | | (370) |
| | MD 3.9 (ATH). | | | | |
| NPS | 1.29 | 334 ePn | 35 | 03.50 | 0.7 |
| KAP | 1.61 | 26 ePb | 35 | 08.00 | 0.6 |
| VAM | 2.17 | 307 ePn | 35 | 21.50 | 5.9X |
| ARG | 2.58 | 35 ePn | 35 | 21.80 | 0.4 |
| KSL | 3.35 | 52 ePn | 35 | 32.00 | -0.4 |
| ELL | 3.95 | 47 iP | 35 | 40.30 | -0.6 |
| KOT | 6.27 | 130 iP | 36 | 13.50 | -0.2 |
| | | S | 37 | 23.50 | |
| BBTK | 7.71 | 40 eP | 36 | 34.00 | 0.0 |
| DSI | 8.04 | 106 eP | 36 | 38.00 | -0.5 |
| | | eS | 38 | 03.00 | |
| PRNI | 8.26 | 115 eP | 36 | 41.00 | -0.6 |
| MBH | 8.47 | 118 e(P) | 36 | 46.00 | 1.5 |
| KHC | 17.74 | 332 eP | 38 | 46.50 | -1.0 |
| | S.D. = 0.8 | on 11 | of 12 | obs. | |
| ----- | | | | | |
| * | FEB 07, 1989 | 18h | 38m | 06.05± | 1.25s |
| | 39.356 N ± 8.2km | | | 20.181 E ±14.4km | |
| | DEPTH = 5.0km | | | (geophysicist) | |
| | GREECE-ALBANIA BORDER REGION | | | | (392) |
| | MD 2.9 (ATH). | | | | |
| LSK | 0.86 | 22 ePg | 38 | 22.10 | -1.0 |
| TPE | 0.95 | 352 iPgd | 38 | 23.00 | -1.5 |
| VLS | 1.22 | 165 ePb | 38 | 29.00 | -0.2 |
| BERA | 1.36 | 353 ePn | 38 | 32.50 | 1.0 |

07d 18h

KZN 1.55 52 ePb 38 35.50 1.1
 OHR 1.02 15 iPn 38 37.30 -0.9
 TIR 2.00 353 e(Pn) 38 42.20 1.3
 VAY 2.68 42 ePn 38 52.00 1.4
 PLG 2.71 67 ePn 38 50.00 -1.1
 SKO 2.78 20 ePn 38 57.00 4.9X

S.D. = 1.4 on 9 of 10 obs.

* FEB 07, 1989 19h 51m 16.31 ± 0.79s
 45.898 N ± 16.2km 154.489 E ± 11.4km
 DEPTH = 33.0km (normal)
 4.8mb (17 obs.)

KURIL ISLANDS REGION (222)

MDJ 17.56 275 eP 55 18.00 -2.0
 CN2 20.65 275 Pc 55 54.00 -1.5
 SNY 22.58 271 eP 56 14.40 -0.5
 HHC 31.32 276 P 57 36.00 0.3
 TIY 32.09 270 eP 57 43.30 0.9
 FBA 36.25 38 eP 58 18.00 0.2

1.0s 0.50nm 3.4mb X

XAN 36.41 267 P 58 20.60 1.1

GTA 40.06 281 eP 58 49.50 -0.6

CD2 41.77 267 eP 59 06.40 2.3

INK 41.87 32 eP 59 05.00 0.7

MBC 45.08 20 eP 59 30.00 -0.3

WMO 46.13 293 eP 59 37.20 -2.0

YKA 51.04 37 P 00 18.60 1.8

CHG 52.87 258 eP 00 22.10 -9.0X

CHTO 52.87 258 e(P) 00 34.10 3.0

GUN 56.04 277 P 00 55.40 0.8

KKN 56.53 277 P 00 59.40 1.4

PKI 56.57 277 P 00 59.30 0.8

DMN 56.76 277 P 01 01.00 1.3

GKN 56.84 277 P 01 01.20 1.0

LRM 60.95 53 eP 01 31.00 2.4

NDI 61.51 283 iPd 01 33.00 0.7

0.6s 13.33nm 5.2mb

SUF 64.18 336 eP 01 46.00 -3.4X

FRB 65.54 19 eP 01 56.00 -2.1

WB5 67.96 200 eP 02 11.50 -2.5

HYB 67.98 273 eP 02 15.00 0.6

WRA 68.03 200 Pd 02 12.10 -2.3

0.6s 1.40nm 4.2mb

NC2 69.20 342 P 02 18.00 -2.5

0.7s 6.40nm 4.8mb

HFS 69.59 340 eP 02 20.30 -3.3X

0.4s 6.10nm 5.0mb

ASPA 71.72 200 iPd 02 13.50 -23.4X

0.7s 7.00nm

CLL 77.63 336 iP 03 09.20 -1.3

0.8s 11.00nm 4.9mb

PRU 78.37 335 eP 03 14.00 -0.6

MOX 78.61 337 eP 03 15.00 -0.9

KHC 79.42 335 P 03 20.00 -0.4

1.0s 6.00nm 4.5mb

GRF 79.58 337 e(P) 03 21.00 -0.3

0.9s 13.00nm 4.9mb

MEM 80.08 340 Pc 03 25.10 1.3

KBA 81.33 334 eP 03 29.50 -1.2

0.8s 11.40nm 4.9mb

CDP 81.80 339 eP 03 33.10 0.0

0.8s 5.30nm 4.6mb

BSF 82.46 339 eP 03 35.90 -0.7

1.0s 8.00nm 4.7mb

LOR 83.71 340 eP 03 42.30 -0.5

0.6s 2.70nm 4.6mb

AVF 84.27 341 eP 03 45.20 -0.5

0.8s 4.50nm 4.7mb

SMF 84.30 340 eP 03 45.40 -0.4

1.0s 8.00nm 4.8mb

BGF 84.61 341 eP 03 47.30 -0.1

0.7s 5.50nm 4.9mb

LPG 84.64 338 eP 03 48.30 0.4

0.8s 5.30nm 4.8mb

MAF 84.99 341 eP 03 49.60 0.3

0.6s 5.40nm 4.9mb

SBF 85.97 337 eP 03 56.10 1.8

0.6s 5.40nm 5.0mb

S.D. = 1.4 on 42 of 46 obs.

* FEB 07, 1989 19h 52m 59.89 ± 1.27s
 40.671 N ± 5.8km 29.691 E ± 11.7km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

HRT 0.15 353 ePg 53 03.00 -0.5
 GBZT 0.22 302 ePg 53 04.50 -0.2
 YLV 0.26 247 iPg 53 06.20 0.7
 GPA 0.61 129 iPg 53 06.30 -5.9X

ISK 0.62 310 iPg 53 12.40 0.0

53 22.70 eSg 53 22.70

DST 1.34 218 iPn 53 23.30 -1.3

EDC 1.43 258 iPn 53 25.50 -0.4

DMK 1.86 309 iPn 53 32.80 0.8

KHL 2.35 183 iPn 53 40.00 0.8

BBTK 2.49 108 eP 53 44.00 2.8X

54 14.00 eS 54 14.00

S.D. = 0.9 on 8 of 10 obs.

* FEB 07, 1989 22h 22m 46.70s

34.386 N 96.831 W

DEPTH = 5.0km (geophysicist)

OKLAHOMA (499)

<TUL>. mbLg 2.0 (TUL).

FKO 0.99 333 (Pg) 23 04.00 -1.9

VVO 1.31 43 ePg 23 06.90 -4.4

(Sg) 23 29.20

SIO 1.42 17 ePg 23 07.90 -5.4

(Sg) 23 31.40

MEO 1.50 286 ePg 23 13.80 -0.5

(Sg) 23 34.00

RRO 1.65 311 ePn 23 18.50 2.1

eSg 23 39.90

TUL 1.74 29 ePnd 23 17.40 -0.4

eSg 23 40.00

LNO 1.75 29 ePnd 23 11.60 -6.1

iSn 23 39.80

PCO 2.31 357 ePn 23 26.00 0.1

eSn 23 55.20

RLO 2.31 39 ePn 23 26.60 0.6

eSn 23 56.80

9 abs. associated

FEB 07, 1989 23h 15m 44.37 ± 0.46s

41.989 N ± 3.9km 20.462 E ± 4.2km

DEPTH = 10.0km (geophysicist)

ALBANIA (391)

ML 3.0 (SKO), 2.8 (TTG).

KKS 0.09 336 iPg 15 46.60 -0.4

PHP 0.30 183 iPg 15 50.30 -0.3

PUK 0.43 277 iPg 15 51.50 -1.6

BCI 0.48 322 iPg 15 53.30 -0.8

LACI 0.66 238 ePg 15 57.50 -0.1

PVY 0.71 329 iPg 15 57.60 -0.8

eSg 16 09.60

SDA 0.72 272 ePg 16 00.00 1.5

SKO 0.73 91 iPg 15 58.10 -0.6

iSg 16 08.80

TIR 0.78 215 ePg 15 59.50 -0.1

ULC 0.90 269 ePg 16 01.50 -0.2

eSg 16 16.00

OHR 0.91 164 iPg 16 01.20 -0.7

iSg 16 14.70

IVA 0.98 335 ePg 16 02.20 -0.8

eSg 16 18.00

TTG 1.00 297 ePg 16 02.50 -0.7

eSg 16 18.40

BDV 1.25 284 ePg 16 08.00 0.4

eSg 16 27.40

BERA 1.34 197 ePn 16 14.10 5.0X

NKY 1.36 308 ePg 16 10.00 0.5

eSg 16 30.00

HCY 1.53 288 ePn 16 12.70 1.0

eSn 16 37.20

PLE 1.55 330 ePn 16 12.00 -0.2

eSn 16 36.00

BRY 1.69 303 ePn 16 16.00 1.8

eSn 16 42.00

VAY 1.71 112 ePn 16 15.40 1.0

LSK 1.84 177 ePn 16 22.10 5.8X

BZS 3.72 13 ePc 16 44.00 0.9

S.D. = 0.9 on 20 of 22 obs.

* FEB 07, 1989 23h 52m 20.78 ± 1.71s

20.909 S ± 21.0km 68.503 W ± 26.6km

DEPTH = 106.4 ± 15.1 km

CHILE-BOLIVIA BORDER REGION (124)

HJA 3.68 129 ePc 53 16.80 0.2
 CNCB 4.11 7 P 53 31.00 7.9X
 LPB 4.37 5 eP 53 27.00 0.4

1.1s 177.22nm

ZOBO 4.63 5 P 53 36.80 6.5X

ARE 5.25 327 eP 53 38.00 -0.6

iS 54 40.50

ITB1 13.54 109 eP 55 34.50 4.9X

ITB 13.73 109 e(P) 55 34.60 2.4X

KIC 68.17 74 P 03 11.10 -0.9

YKA 90.76 340 P 05 13.40 0.9

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

* FEB 08, 1989 02h 21m 13.78 ± 3.19s

31.410 S ± 12.0km 68.569 W ± 26.2km

DEPTH = 95.1 ± 28.2 km

SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.12 47 iPd 21 27.00 -0.7

S 21 39.50

ZON 0.17 215 iPd 21 27.60 -0.2

eS 21 39.00

RTCB 0.21 249 iPd 21 28.20 0.2

CFA 0.34 125 ePd 21 27.80 -0.5

RTCV 0.45 177 iPd 21 29.00 0.0

RTRS 1.45 328 iPd 21 40.20 0.6

S 22 01.00

MDZ 1.49 189 eP 21 41.60 1.5

iS 21 59.50

JACH 2.14 233 iPd 21 49.60 1.0

iS 23 18.00

FCH 2.40 217 eP 21 54.00 1.6

PEL 2.49 225 iPd 21 53.00 -0.3

iS 22 23.50

ROCH 2.59 232 eP 21 54.50 -0.4

iS 22 26.10

CHCH 3.07 214 iPd 22 01.00 -0.2

e 22 38.00

LNV 3.49 223 iPd 22 04.20 -2.7

S.D. = 1.3 on 13 of 13 obs.

* FEB 08, 1989 03h 01m 43.30 ± 1.16s

6.266 S ± 18.3km 149.090 E ± 14.8km

DEPTH = 57.6 ± 19.3 km

4.3mb (1 obs.)

NEW BRITAIN REGION (192)

LAT 2.11 259 e(P) 02 17.00 0.2

LMG 2.79 199 iPd 02 26.50 0.0

PMG 3.66 211 iPd 02 41.00 2.2X

0.8s 223.88nm

RAB 3.70 56 iPd 02 39.20 0.0

MNDI 5.40 271 e(P) 03 10.00 6.5X

WB5 19.69 225 iPd 06 10.30 -0.5

WB2 19.74 225 iPd 06 10.30 -1.0

ASPA 22.64 219 iPd 06 42.00 1.4

0.7s 8.00nm 4.3mb

eS 10 45.50

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

* FEB 08, 1989 04h 03m 38.04 ± 1.75s

17.466 S ± 76.5km 177.723 W ± 36.5km

DEPTH = 431.6 ± 16.9 km

4.7mb (4 obs.)

FIJI ISLANDS REGION (181)

AFI 6.73 59 eP 05 20.00 -0.5

S 05 27.00

CTA 34.16 260 iPd 09 49.20 2.4

CHG 89.46 290 eP 16 00.20 11.1X
 CHTO 89.46 290 e(P) 15 48.00 -1.1
 KSP 144.87 345 ePKP 22 33.70 7.8X
 SPC 145.16 339 ePKP 22 35.80 9.0X
 CLL 145.17 348 iPKP 22 33.40 7.0X
 1.4s 13.00nm
 MLR 145.79 330 ePKPc 22 38.00 10.2X
 MOX 146.06 349 ePKP 22 36.00 8.1X
 1.3s 29.00nm
 PRU 146.09 346 PKP 22 26.30 -1.7
 1.5s 17.90nm
 e 22 41.90
 SRO 147.00 340 ePKP 22 37.60 8.1X
 ZST 147.04 342 ePKP 22 41.00 11.5X
 KHC 147.11 346 PKP 22 41.20 11.5X
 1.2s 10.00nm
 KBA 149.09 345 e(PKP) 22 50.00 16.9X
 1.2s 6.30nm
 S.D. = 1.2 on 16 of 26 obs.

FEB 08, 1989 04h 54m 53.90 ± 0.53s
 19.832 S ± 8.1km 133.625 E ± 4.8km
 DEPTH = 10.0km (geophysicist)
 4.4mb (1 obs.)

NORTHERN TERRITORY, AUSTRALIA (591)
 ML 4.1 (QIS).

WB5 0.69 99 iP 55 07.70 0.1
 WB5 0.70 94 iP 55 07.70 0.0
 ASPA 3.82 176 iPd 55 59.60 5.5X
 0.5s 878.00nm
 eS 56 46.50
 QIS 5.66 98 eP 56 20.00 -0.2
 eS 57 20.00
 e 57 48.00
 KNA 6.16 310 eP 56 27.50 0.4
 0.3s 21.00nm 5.5mb X
 eS 57 36.00
 MTN 7.35 341 eP 56 43.00 -0.9
 eS 57 05.00
 e 57 49.00
 WARB 9.02 224 eP 57 02.60 -4.5X
 0.4s 33.00nm 6.0mb X
 eS 58 42.00
 CTA 11.88 93 eP 57 47.00 0.6
 FORR 12.05 203 iPd 57 48.50 -0.1
 0.4s 45.00nm 6.1mb X
 STK 13.97 151 eP 58 11.00 -3.1X
 MEKA 15.42 241 eP 58 32.00 -1.2
 0.3s 6.00nm 4.4mb
 eS 01 18.00
 NANU 17.09 258 eP 58 56.00 1.4
 eS 01 55.00
 KLB 18.45 227 eP 59 08.00 -3.5X
 MRWA 18.54 236 eP 59 14.00 1.4
 eS 02 31.00
 NWA0 19.61 225 eP 59 24.00 -1.4
 eS 02 53.00
 MUN 19.76 229 eP 59 27.00 0.0
 eS 02 55.00
 RKG 20.46 223 eP 59 40.00 5.6X
 S.D. = 1.0 on 12 of 17 obs.

% FEB 08, 1989 06h 00m 11.49 ± 0.84s
 43.429 N ± 5.0km 5.426 E ± 5.9km
 DEPTH = 9.6 ± 4.6 km
 NEAR SOUTH COAST OF FRANCE (379)
 MD 2.5 (STR).

GELF 0.05 179 Pg 00 13.31 -0.3
 TREF 0.20 351 Pg 00 15.38 -0.4
 PUYF 0.22 63 Pg 00 15.31 -1.0
 BERF 0.23 121 Pg 00 16.18 -0.2
 PRAF 0.42 334 Pg 00 20.32 0.3
 VILF 0.47 26 Pg 00 20.46 -0.6
 TAVF 0.50 68 Pg 00 20.73 -0.8
 Sg 00 28.82
 GANF 0.67 31 Pg 00 25.45 0.6
 CALN 1.11 73 Pg 00 33.17 0.7
 Sg 00 49.49
 MVIF 1.34 69 Pn 00 36.44 0.2
 Sg 00 55.62
 TOUF 1.44 66 Pn 00 38.19 0.3
 Sg 00 58.79
 AURF 1.45 71 Pn 00 38.50 0.6
 Sg 00 58.79
 AUTN 1.56 68 Pn 00 40.26 0.7

Sg 01 02.12
 SAOF 1.64 69 Pn 00 40.30 -0.3
 S.D. = 0.7 on 14 of 14 obs.

% FEB 08, 1989 07h 28m 40.77 ± 1.15s
 41.130 N ± 0.1km 29.233 E ± 7.0km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

ISK 0.15 244 ePg 28 43.40 -0.8
 GBZT 0.38 155 ePg 28 47.50 -1.0
 iSg 28 54.20
 HRT 0.45 133 ePg 28 49.90 -0.1
 YLV 0.57 169 iPg 28 52.80 0.4
 KCT 1.10 217 iPn 29 02.70 1.2
 GPA 1.17 135 ePn 29 03.00 0.3
 EDC 1.30 234 ePn 29 04.50 -0.4
 DMK 1.31 302 iPn 29 05.00 0.1
 S.D. = 0.8 on 8 of 8 obs.

% FEB 08, 1989 09h 18m 40.45 ± 0.71s
 47.192 N ± 11.5km 4.435 E ± 7.1km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)

ML 2.8 (LDG).

LBF 0.38 237 Pg 18 49.00 0.8
 Sg 18 54.80
 LOR 0.40 281 Pg 18 49.00 0.3
 Sg 18 54.80
 SSF 0.65 259 Pg 18 53.70 0.3
 Sg 19 02.80
 SMF 0.68 217 Pg 18 54.70 0.7
 Sg 19 04.60
 AVF 0.84 242 Pg 18 57.00 0.3
 Sg 19 09.00
 BGF 1.26 240 Pn 19 02.90 -1.0
 Pg 19 04.40
 Sg 19 21.20
 HAU 1.53 57 Pg 19 07.90 0.1
 Sg 19 25.60
 MAF 1.61 234 Pg 19 11.90 2.9X
 Sg 19 31.90
 BSF 1.72 67 Pg 19 10.80 0.1
 Sg 19 31.50
 TCF 1.78 240 Pn 19 09.80 -1.7
 Pg 19 13.70
 Sg 19 36.80
 LSF 2.21 246 Pn 19 14.30 -3.4X
 Sg 19 50.80
 S.D. = 0.9 on 9 of 11 obs.

* FEB 08, 1989 09h 28m 14.52 ± 1.39s
 14.043 N ± 10.5km 120.038 E ± 17.0km
 DEPTH = 60.0 ± 14.7 km
 4.4mb (8 obs.)

LUZON, PHILIPPINE ISLANDS (249)

OCP 1.17 59 eP 28 48.00 13.1X
 BAG 2.41 12 ePc 28 51.00 -1.5
 0.9s 189.92nm
 eS 29 20.40
 PIP 4.30 7 ePd 29 21.50 2.7X
 PPR 4.43 197 iPc 29 21.00 0.3
 eS 30 11.00
 WHN 17.24 343 eP 32 15.50 2.8
 CHG 20.78 286 eP 32 53.90 0.9
 CHTO 20.78 286 eP 32 53.50 0.5
 0.9s 2.56nm 3.6mb
 XAN 22.31 335 eP 33 07.70 -0.6
 CD2 22.49 321 eP 33 10.80 0.7
 TIY 24.53 345 eP 33 30.00 0.2
 GUN 34.62 299 P 34 59.80 -0.7
 0.4s 6.00nm 4.9mb
 PKI 34.92 298 P 35 01.40 -1.7
 0.5s 4.00nm 4.6mb
 KKN 35.09 299 P 35 03.40 -1.0
 DMN 35.19 298 P 35 04.40 -0.9
 0.5s 7.00nm 4.8mb
 GKN 35.70 299 P 35 08.00 -1.4
 0.5s 3.00nm 4.5mb
 GBA 41.33 275 Pd 35 57.20 1.0
 0.7s 2.80nm 4.1mb
 KJF 78.49 333 eP 40 11.00 0.6
 SUF 79.42 332 iP 40 16.20 0.7
 0.5s 2.50nm 4.4mb
 MBC 83.35 12 eP 40 26.00 0.1

HFS 85.87 331 eP 40 48.60 -0.1
 0.5s 1.10nm 4.3mb
 KHC 89.93 321 eP 41 00.00 -8.6X
 S.D. = 1.2 on 18 of 21 obs.

? FEB 08, 1989 09h 41m 42.11 ± 2.45s
 22.344 S ± 27.9km 169.436 E ± 19.0km
 DEPTH = 156.0 ± 17.5 km
 4.1mb (3 obs.)

LOYALTY ISLANDS REGION (189)

DZM 2.79 275 iPd 42 28.20 0.6
 iS 43 10.00
 BRS 15.93 248 Pc 45 17.20 -1.8
 i 45 28.50
 e 45 39.00
 CTA 21.72 272 eP 46 26.00 4.3X
 PMG 24.95 297 eP 46 51.50 -1.1
 ASPA 32.69 261 ePd 48 04.30 2.6X
 0.6s 20.00nm 5.0mb
 Z 19s 0.80um 4.4msz

LR 12 26.70
 WB5 32.76 268 eP 48 03.10 0.7
 WB2 32.77 268 eP 48 03.10 0.7
 WRA 32.78 268 P 48 04.00 1.5
 0.5s 1.40nm 4.0mb

CHG 80.11 295 eP 53 36.20 -0.2
 CHTO 80.11 295 eP 53 36.00 -0.4
 0.8s 2.20nm 3.9mb
 KSP 144.68 330 iPKPd 00 55.70 -5.8X
 CLL 145.78 333 iPKPc 00 58.50 -4.8X
 0.9s 26.00nm
 ZST 146.05 326 iPKP 01 00.40 -3.4X
 EKA 146.59 352 PKP 00 59.00 -5.5X
 2.5s 155.90nm
 BNG 146.67 242 ePKPd 01 06.50 0.6
 0.6s 3.00nm
 MOX 146.85 334 ePKP 01 02.00 -3.1X
 SKO 146.86 314 iPKPc 01 03.00 -2.4X
 KHC 147.13 330 iPKPc 01 03.00 -2.6X
 1.2s 15.00nm
 GRF 147.75 333 ePKP 01 06.00 -0.6
 0.9s 21.00nm
 GRB5 148.00 332 ePKP 01 06.00 -1.0
 0.9s 21.00nm
 KBA 148.69 328 ePKP 01 06.00 -2.4X
 1.0s 5.30nm
 MEM 148.95 339 PKP 01 06.90 -1.4
 WLF 149.71 338 PKPc 01 10.20 0.7
 DOU 149.84 340 PKPc 01 09.70 0.0
 0.7s 16.70nm
 CDF 150.35 336 ePKP 01 10.60 -0.1
 0.8s 9.10nm
 BSF 151.01 335 ePKP 01 12.10 0.4
 0.8s 10.70nm
 HAU 151.03 336 ePKP 01 12.30 0.6
 0.8s 10.70nm
 FLN 152.44 346 ePKP 01 14.50 0.9
 0.8s 10.70nm
 LPG 152.92 333 ePKP 01 17.20 2.4X
 S.D. = 1.0 on 18 of 29 obs.

? FEB 08, 1989 10h 46m 19.11 ± 0.95s
 34.227 N ± 22.3km 135.250 E ± 6.6km
 DEPTH = 10.0km (geophysicist)
 NEAR S. COAST OF SOUTHERN HONSHU(233)
 MG 2.3 (JMA). Felt (1 JMA) at
 Wakayama.

WKY 0.07 269 P 46 21.70 0.3
 WKYJ 0.28 91 P 46 25.10 0.0
 S 46 29.60
 TKSJ 1.03 257 P 46 38.30 -0.2
 S 46 51.80
 YONJ 1.76 304 eP 46 49.70 -0.1
 S 47 12.20
 S.D. = 0.3 on 4 of 4 obs.

* FEB 08, 1989 11h 34m 25.20 ± 1.03s
 1.561 S ± 7.6km 77.422 W ± 16.5km
 DEPTH = 193.6 ± 9.3 km
 4.5mb (4 obs.)

ECUADOR (107)

SALC 4.56 9 ePd 35 34.80 0.1
 DIAC 4.97 14 ePd 35 41.50 1.5
 HOOC 5.06 9 eP 35 40.40 -0.7

08d 11h

ANCC 5.07 6 eP 35 40.50 -0.6
 HOBC 6.01 12 eP 35 53.00 -0.5
 ARE 15.92 159 eP 38 02.00 1.4
 ZOBO 17.25 148 P 38 16.20 -0.6
 LPB 17.48 149 eP 38 18.00 -1.1
 CNCB 17.78 149 P 38 22.00 -0.4
 MEO 41.24 333 eP 41 52.50 -0.3
 0.9s 14.70nm 4.5mb

ALO 45.36 326 iPc 42 26.30 0.1
 0.8s 8.77nm 4.3mb
 e 43 07.00

YKA 69.77 343 P 45 15.10 -0.8
 LIC 72.68 83 P 45 34.30 0.1
 TIC 72.72 83 P 45 34.50 0.1
 KIC 72.97 83 P 45 36.10 0.2
 0.4s 13.00nm 5.0mb

INK 79.50 342 ePc 46 11.90 0.6
 MBC 81.27 351 eP 46 21.00 0.6
 0.6s 5.00nm 4.4mb

KKN 149.11 31 PKP 53 53.50 5.1X
 0.5s 16.00nm
 DMN 149.16 31 PKP 53 53.70 5.1X
 0.4s 13.00nm

GUN 149.31 30 PKP 53 54.20 5.3X
 0.4s 10.00nm
 PKI 149.35 31 PKP 53 53.80 4.8X
 0.5s 5.00nm

GBA 152.40 63 PKPc 54 01.00 7.7X
 0.5s 1.10nm
 S.D. = 0.8 on 17 of 22 obs.

* FEB 08, 1989 12h 44m 18.82±1.27s
 41.598 N ±11.0km 22.299 E ±9.8km
 DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)
 ML 1.9 (SKO).

VAY 0.34 144 iPg 44 26.40 0.5
 iSg 44 32.00
 KKB 0.65 65 ePg 44 30.00 -1.8
 iSg 44 40.00

SKO 0.74 300 ePn 44 33.00 -0.4
 MMB 1.07 90 iPg 44 39.00 0.0
 VTS 1.20 34 iP 44 43.00 1.7
 S.D. = 1.8 on 5 of 5 obs.

* FEB 08, 1989 12h 45m 55.94±1.03s
 13.288 N ±18.6km 50.751 E ±12.1km
 DEPTH = 10.0km (geophysicist)
 4.4mb (4 obs.)

EASTERN GULF OF ADEN (415)

BHD 20.73 345 ePc 50 37.00 -2.1
 eS 57 07.50
 e 57 29.00

KER 21.23 352 eP 50 46.00 1.5
 SLY 22.71 349 ePd 51 03.50 4.4X
 MHI 24.22 17 eP 51 16.00 2.0
 eS 55 04.00

BNG 32.98 257 ePc 52 33.90 0.5
 0.6s 3.00nm 4.4mb
 BAO 32.99 257 eP 52 33.70 0.2
 1.1s 1.18nm 3.7mb

GKN 34.78 60 P 52 48.80 -0.3
 KKN 35.26 60 P 52 53.20 -0.1
 0.8s 12.00nm 4.8mb

PKI 35.31 61 P 52 53.40 -0.4
 GUN 35.81 61 P 52 57.70 -0.3
 KBA 45.95 325 eP 54 20.00 -1.0
 0.9s 3.50nm 4.3mb
 e 54 26.00

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

& FEB 08, 1989 13h 38m 44.74s
 61.458 N 142.890 W
 DEPTH = 65.5km
 SOUTHERN ALASKA (2)
 <AGS-P>.

GLB 0.44 268 iP 38 56.71 -0.1
 iS 39 06.35
 CTGM 0.90 123 iP 39 02.30 0.1
 iS 39 16.07

RAGM 1.38 220 iP 39 08.97 0.5
 KLU 1.45 273 iP 39 09.72 0.3
 eS 39 29.57

SGAM 1.48 231 iP 39 09.93 0.2

CVA 1.67 238 eP 39 12.39 0.2
 TOA 1.69 294 iP 39 13.06 0.4
 iS 39 37.08

VLZ 1.69 260 eP 39 12.23 -0.4
 VZW 1.82 259 eP 39 13.91 -0.5
 HIN 2.06 240 iP 39 17.37 -0.4
 BCPM 2.20 132 iP 39 18.91 -0.8

SML 2.62 280 eP 39 24.62 -1.0
 MID 2.66 222 eP 39 26.03 0.0
 KNK 2.67 271 eP 39 25.98 -0.4
 HYT 2.69 101 P 39 25.60 -1.0

PWL 2.71 260 eP 39 26.54 -0.2
 DWY 3.05 30 P 39 29.50 -2.1
 PMS 3.22 269 eP 39 35.86 1.8
 SEW 3.49 250 eP 39 36.22 -1.5

SLKM 3.70 258 eP 39 39.73 -1.0
 FBA 4.11 329 eP 39 43.83 -2.6
 INK 7.94 26 eP 40 35.00 -4.7
 YKA 13.29 73 P 41 50.70 -1.1

23 obs. associated

& FEB 08, 1989 14h 10m 00.88s
 58.181 N 153.425 W
 DEPTH = 64.7km
 KODIAK ISLAND REGION (13)
 <AGS-P>.

KDC 0.66 131 iP 10 14.39 -0.7
 iS 10 24.82
 CDD 0.76 351 iP 10 15.60 -0.8
 AUH 1.19 360 iP 10 21.88 0.0

AUL 1.20 360 eP 10 21.85 -0.2
 PDB 1.66 346 iP 10 27.21 -1.1
 iS 10 47.83
 CNPM 1.76 39 eP 10 28.59 -1.2
 eS 10 52.80

ILIM 1.92 7 eP 10 30.97 -1.0
 eS 10 53.83
 NNL 2.17 30 iP 10 34.70 -0.6
 RED 2.27 8 eP 10 35.83 -1.0

RDT 2.46 12 iP 10 38.53 -0.9
 eS 11 08.78
 NKA 2.80 23 eP 10 44.20 0.0
 SEW 2.81 45 eP 10 41.45 -2.9

SLKM 2.85 34 eP 10 42.64 -2.4
 SPU 3.09 12 eP 10 46.90 -1.4
 SVW 3.14 340 eP 10 47.83 -1.2
 CRP 3.16 11 eP 10 48.42 -1.0

PTE 3.50 38 eP 10 51.28 -2.8
 PMS 3.64 31 eP 10 53.77 -2.3
 PWL 3.73 42 eP 10 54.42 -2.9
 PWA 3.91 26 eP 10 57.99 -1.8

KNK 4.10 36 eP 10 59.31 -3.2
 PME 4.10 31 eP 10 59.44 -3.1
 GHO 4.25 30 eP 11 01.80 -2.9
 SML 4.45 33 eP 11 04.06 -3.3

VZW 4.53 47 eP 11 04.93 -3.6
 KLU 5.03 46 eP 11 12.24 -3.5
 YKA 19.47 61 P 14 22.90 -1.9
 27 obs. associated

? FEB 08, 1989 14h 20m 07.48±6.29s
 49.068 N ±45.7km 6.886 E ±14.0km
 DEPTH = 10.0km (geophysicist)

GERMANY (543)
 MD 2.2 (STR).

CDF 0.71 158 Pn 20 20.53 -0.9
 Sg 20 33.69

VITF 1.04 215 Pg 20 26.88 -0.2
 Sg 20 41.74
 MOF 1.23 172 Pg 20 30.94 0.5
 Sg 20 48.52

BSF 1.24 183 Pg 20 30.88 0.3
 Sg 20 46.01
 FEL 1.41 147 Pg 20 33.65 0.4
 Sg 20 53.30

S.D. = 0.8 on 5 of 5 obs.

? FEB 08, 1989 15h 19m 49.15±1.16s
 52.082 N ±29.6km 170.838 W ±11.2km
 DEPTH = 33.0km (normal)
 4.5mb (1 obs.)

FOX ISLANDS, ALEUTIAN ISLANDS (9)

ADK 3.62 269 eP 20 45.00 0.8
 e(S) 21 25.00

INK 24.09 34 ePc 25 02.60 0.6
 YKA 31.11 48 P 26 06.70 0.5
 KVN 38.31 88 eP 27 08.50 0.1
 FFC 39.64 58 eP 27 19.00 0.0
 0.9s 9.00nm 4.5mb

BW06 41.34 78 eP 27 39.00 5.6X
 FRB 49.73 35 eP 28 39.00 -0.6
 GUN 76.06 297 P 31 34.00 -1.4
 BUL 144.70 327 iPKPc 39 21.90 -2.2X
 0.7s 3.42nm

S.D. = 0.9 on 7 of 9 obs.

* FEB 08, 1989 15h 23m 25.55±0.81s
 6.798 S ±9.7km 129.049 E ±19.1km
 DEPTH = 213.1 ±11.5 km
 4.6mb (9 obs.)

BANDA SEA (280)

AAI 3.21 345 ePc 24 19.00 0.3
 KUPT 6.33 238 eP 25 59.50 61.5X
 MTN 6.35 161 iP 24 59.20 1.0
 eS 25 59.00

KNA 8.90 182 iPc 25 31.10 -0.3
 0.3s 31.00nm 5.0mb
 eS 27 04.00

WB5 13.99 159 eP 26 35.10 -1.0
 i 26 40.70
 eS 27 02.00

WRA 14.04 159 P 26 36.10 -0.6
 0.3s 2.70nm 4.1mb
 WB2 14.05 159 eP 26 35.10 -1.7
 i 26 40.70
 eS 27 02.00

QIS 17.08 144 iPc 27 14.40 1.1
 0.9s 15.00nm 4.4mb
 eS 30 20.00

ASPA 17.41 165 iPc 27 18.40 1.6
 0.4s 59.00nm 5.4mb
 eS 30 24.90

WARB 19.41 187 iPc 27 33.20 -4.5X
 0.4s 4.00nm 4.3mb
 NANU 20.38 218 eP 27 48.00 0.6
 CTA 21.29 130 eP 28 01.00 4.7X

GUN 54.11 312 P 32 31.30 0.0
 0.5s 16.00nm 4.9mb
 PKI 54.28 311 P 32 32.20 -0.3
 0.5s 5.00nm 4.4mb

KKN 54.49 311 P 32 33.70 -0.2
 0.5s 5.00nm 4.4mb
 DMN 54.53 311 P 32 34.00 -0.2
 GKN 55.09 311 P 32 38.00 -0.1
 0.4s 9.00nm 4.8mb

S.D. = 1.0 on 14 of 17 obs.

* FEB 08, 1989 15h 53m 24.35±0.54s
 8.484 S ±11.1km 68.014 E ±8.6km
 DEPTH = 10.0km (geophysicist)
 4.5mb (4 obs.)

CHAGOS ARCHIPELAGO REGION (426)

AVY 22.24 240 eP 58 31.00 7.7X
 QUE 38.46 359 eP 00 49.00 0.5
 DMN 39.51 24 P 00 58.00 0.6
 PKI 39.60 25 P 00 58.40 0.2

GKN 39.68 23 P 00 57.80 -0.8
 KKN 39.74 24 P 00 58.20 -1.1
 GUN 40.10 25 P 01 01.60 -0.7
 CHG 40.82 48 eP 01 08.80 0.8
 CHTO 40.82 48 eP 01 07.90 -0.1
 1.0s 5.50nm 4.2mb

MHI 45.26 350 eP 01 44.00 0.0
 BNG 50.97 283 ePd 02 28.87 0.2
 0.4s 5.00nm 4.8mb

BCAO 50.98 283 eP 02 28.20 -0.6
 1.1s 2.94nm 4.1mb
 ASPA 64.59 112 iPc 04 05.20 0.6
 1.6s 14.00nm 4.9mb

WB2 64.96 108 eP 04 06.50 -0.5
 WB5 64.98 108 eP 04 06.50 -0.6
 KIC 74.02 279 PKP 05 03.30 0.6
 LIC 74.27 279 PKP 05 02.80 -1.4

KHC 74.49 326 eP 05 13.30 8.5X
 CLL 76.00 328 eP 05 14.00 0.7
 YKA 126.06 2 PKP 12 30.00 1.9
 S.D. = 0.9 on 18 of 20 obs.

FEB 08, 1989 16h 04m 28.67±0.98s


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1.0s      8.00nm      4.3mb
Z 17s     0.64um      4.2Mszx
          LR      14 33.70

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(193)

| | | | | | |
|-----------------------------|--------|-----|---------|----------|---------|
| WHN | 53.58 | 316 | P | 08 05.60 | -0.2 |
| PPI | 54.34 | 274 | e(P) | 08 08.00 | -3.7X |
| TIY | 59.26 | 322 | eP | 08 45.70 | -0.7 |
| XAN | 59.34 | 316 | Pc | 08 45.80 | -1.2 |
| CHG | 60.45 | 296 | eP | 09 06.70 | 11.9X |
| CHTO | 60.45 | 296 | eP | 08 55.70 | 0.9 |
| | | | e | 09 06.50 | |
| CD2 | 61.42 | 311 | eP | 09 01.50 | 0.2 |
| LZH | 63.95 | 316 | eP | 09 18.00 | -0.1 |
| | 1.0s | | 0.04nm | | 2.4mb X |
| GTA | 68.38 | 317 | Pc | 09 46.00 | -0.3 |
| GUN | 74.68 | 301 | P | 10 24.60 | 0.1 |
| | 0.8s | | 37.00nm | | 5.4mb |
| PKI | 74.99 | 301 | P | 10 26.20 | -0.1 |
| | 0.7s | | 12.00nm | | 5.0mb |
| KKN | 75.16 | 301 | P | 10 27.00 | -0.1 |
| | 0.7s | | 20.00nm | | 5.2mb |
| DMN | 75.26 | 301 | P | 10 27.90 | 0.2 |
| | 0.7s | | 32.00nm | | 5.4mb |
| GKN | 75.76 | 301 | P | 10 29.60 | -0.9 |
| | 0.8s | | 30.00nm | | 5.3mb |
| WMO | 78.47 | 317 | P | 10 45.50 | 0.4 |
| GBA | 79.17 | 285 | Pd | 10 50.00 | 0.7 |
| | 0.8s | | 3.80nm | | 4.4mb |
| KSH | 85.60 | 310 | eP | 11 24.50 | 2.2 |
| INK | 89.86 | 21 | eP | 11 41.00 | -1.0 |
| YKA | 96.53 | 28 | P | 12 12.60 | -0.2 |
| NAO | 119.79 | 340 | PKP | 17 33.00 | -0.7 |
| | 0.7s | | 1.70nm | | |
| CLL | 125.55 | 331 | iPKP | 17 45.40 | 0.4 |
| KHC | 126.65 | 329 | PKP | 17 48.00 | 0.7 |
| ITA | 145.30 | 148 | e(PKP) | 18 23.00 | 0.2 |
| | | | e | 18 28.20 | |
| ITA | 145.30 | 148 | ePKP | 18 28.20 | 5.4X |
| BMA | 145.33 | 149 | ePKP | 18 13.40 | -9.1X |
| S.D. = 0.7 on 32 of 38 obs. | | | | | |

| | | | | | |
|------|--------|------------------|----|-------|-------|
| WMA | 78.47 | 287 P | 16 | 43.50 | 0.4 |
| GBA | 79.17 | 315 Pd | 10 | 50.00 | 0.7 |
| | 0.8 s | 3.80nm | | | 4.4mb |
| KSH | 85.60 | 310 eP | 11 | 24.50 | 2.2 |
| INK | 89.86 | 21 eP | 11 | 41.00 | -1.0 |
| YKA | 96.53 | 28 P | 12 | 12.60 | -0.2 |
| NAO | 119.79 | 340 PKP | 17 | 33.00 | -0.7 |
| | 0.7 s | 1.70nm | | | |
| CLL | 125.55 | 331 iPKP | 17 | 45.00 | 0.4 |
| KHC | 126.65 | 329 PKP | 17 | 48.00 | 0.7 |
| ITA | 145.30 | 148 e(PKP) | 18 | 23.00 | 0.2 |
| | | e | 18 | 28.20 | |
| ITA | 145.30 | 148 ePKP | 18 | 28.20 | 5.4X |
| BMA | 145.33 | 149 ePKP | 18 | 13.40 | -9.1X |
| S.D. | = 0.7 | on 32 of 38 obs. | | | |

(292)

| | | | | | | |
|------------------------------------|--------|-----|--------|----|-------|-------|
| CLL | 125.55 | 331 | iPKP | 17 | 45.40 | 0.4 |
| KHC | 126.65 | 329 | PKP | 17 | 48.00 | 0.7 |
| ITA | 145.30 | 148 | e(PKP) | 18 | 23.00 | 0.2 |
| | | | e | 18 | 28.20 | |
| ITA | 145.30 | 148 | ePKP | 18 | 28.20 | 5.4X |
| BMA | 145.33 | 149 | ePKP | 18 | 13.40 | -9.1X |
| S.D. = 0.7 on 32 of 38 obs. | | | | | | |
| ----- | | | | | | |
| FEB 08, 1989 20h 55m 14.17± 0.70s | | | | | | |
| 62.990 N ± 8.8km 149.415 W ± 8.4km | | | | | | |
| DEPTH = 72.6 ± 26.4 km | | | | | | |
| CENTRAL ALASKA (1) | | | | | | |
| PWA | 1.36 | 189 | ePc | 55 | 38.10 | 0.4 |
| PMR | 1.41 | 174 | ePc | 55 | 38.50 | 0.1 |
| TOA | 1.75 | 119 | eP | 55 | 43.70 | 0.7 |
| PMS | 1.75 | 182 | ePd | 55 | 43.00 | -0.1 |
| FBA | 2.05 | 20 | iPd | 55 | 47.70 | 0.6 |
| TTA | 3.01 | 272 | iPc | 56 | 01.20 | 0.6 |
| SVW | 3.48 | 240 | eP | 56 | 07.10 | 0.0 |
| DWY | 4.60 | 72 | P | 56 | 21.50 | -1.2 |
| KDC | 5.48 | 198 | eP | 56 | 33.50 | -1.4 |
| INK | 8.44 | 44 | eP | 57 | 14.00 | -1.9 |
| YKA | 15.84 | 76 | P | 58 | 55.80 | 2.1 |
| S.D. = 1.3 on 11 of 11 obs. | | | | | | |

S.D. = 0.7 on 6 of 14 obs.

| | 15.33 | 123 | 2.00mm | 16.25 | 123 | 2.00mm |
|------------|-------|-----|-----------------|----------|-------|--------|
| WB5 | 15.73 | 123 | eS | 16.25.00 | | |
| | | | eP | 13.48.00 | -0.4 | |
| | | | eS | 16.32.20 | | |
| WB2 | 15.74 | 124 | eP | 13.48.00 | -0.6 | |
| | | | eS | 16.32.20 | | |
| ASPA | 17.55 | 135 | eP | 14.16.00 | 4.6X | |
| | | | eS | 17.16.00 | | |
| MRWA | 18.01 | 193 | eP | 14.21.00 | 4.0X | |
| | | | eS | 17.24.00 | | |
| COOL | 19.20 | 178 | eP | 14.35.00 | 3.5X | |
| | | | eS | 17.51.00 | | |
| KLB | 20.05 | 187 | eP | 14.46.00 | 5.2X | |
| | | | eS | 18.09.00 | | |
| MUN | 20.65 | 190 | eP | 14.55.00 | 8.0X | |
| NWAO | 21.43 | 187 | eP | 15.05.00 | 10.1X | |
| | | | eS | 18.42.00 | | |
| S.D. = 0.7 | | | on 6 of 14 obs. | | | |

CENTRAL ALASKA (1)

| | | | | | | |
|-----|-------|-----|-----|----|-------|------|
| PWA | 1.36 | 189 | ePc | 55 | 38.10 | 0.4 |
| PMR | 1.41 | 174 | ePc | 55 | 38.50 | 0.1 |
| TOA | 1.75 | 119 | eP | 55 | 43.70 | 0.7 |
| PMS | 1.75 | 182 | ePd | 55 | 43.00 | -0.1 |
| FBA | 2.05 | 20 | iPd | 55 | 47.70 | 0.6 |
| TTA | 3.01 | 272 | iPc | 56 | 01.20 | 0.6 |
| SVW | 3.48 | 240 | eP | 56 | 07.10 | 0.0 |
| DWY | 4.60 | 72 | P | 56 | 21.50 | -1.2 |
| KDC | 5.48 | 198 | eP | 56 | 33.50 | -1.4 |
| INK | 8.44 | 44 | eP | 57 | 14.00 | -1.9 |
| YKA | 15.84 | 76 | P | 58 | 55.80 | 2.1 |

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

| | | | | | | |
|------------|-------|-----|----|-----------------|-------|-------|
| MRWA | 18.01 | 193 | eP | 14 | 21.00 | 4.0X |
| | | | eS | 17 | 24.00 | |
| COOL | 19.20 | 178 | eP | 14 | 35.00 | 3.5X |
| | | | eS | 17 | 51.00 | |
| KLB | 20.05 | 187 | eP | 14 | 46.00 | 5.2X |
| | | | eS | 18 | 09.00 | |
| MUN | 20.65 | 190 | eP | 14 | 55.00 | 8.0X |
| NWAO | 21.43 | 187 | eP | 15 | 05.00 | 10.1X |
| | | | eS | 18 | 42.00 | |
| S.D. = 0.7 | | | | on 6 of 14 obs. | | |

FEB 08, 1989 19h 58m 45.67 \pm 0.73s
6.958 S \pm 5.0km 154.505 E \pm 5.4km
DEPTH = 34.1 \pm 6.7 km
4.9mb (9 obs.)

(193)

| | | | | | | |
|------|------|-----|-----|----|-------|------|
| GELF | 0.00 | 321 | Pg | 35 | 41.05 | -0.3 |
| TREF | 0.25 | 352 | Pg | 35 | 43.60 | -1.1 |
| PUYF | 0.25 | 52 | Pg | 35 | 43.64 | -1.1 |
| PRAF | 0.46 | 336 | Pg | 35 | 48.75 | -0.1 |
| TAVF | 0.51 | 62 | Pg | 35 | 49.30 | -0.6 |
| VILF | 0.51 | 24 | Pg | 35 | 48.81 | -1.1 |
| GANF | 0.71 | 29 | Pg | 35 | 53.34 | -0.1 |
| CALN | 1.12 | 70 | Pg | 36 | 00.95 | 0.3 |
| MVIF | 1.35 | 67 | Pn | 36 | 04.55 | 0.1 |
| | | | Sg | 36 | 23.33 | |
| TOUF | 1.46 | 64 | Pn | 36 | 06.30 | 0.2 |
| AURF | 1.47 | 69 | Pn | 36 | 06.06 | 0.0 |
| | | | Sg | 36 | 26.37 | |
| FOUF | 1.51 | 40 | P | 36 | 07.35 | 0.9 |
| | | | Sg | 36 | 28.05 | |
| AUTN | 1.57 | 66 | Pn | 36 | 07.86 | 0.2 |
| | | | Sg | 36 | 30.22 | |
| SAOF | 1.66 | 68 | Pn | 36 | 08.68 | 0.0 |
| DOI | 1.73 | 49 | P | 36 | 10.20 | 0.5 |
| | | | eSn | 36 | 33.10 | |
| BNI | 1.90 | 28 | P | 36 | 14.70 | 2.4 |
| | | | eSn | 36 | 39.60 | |
| CKI | 2.31 | 62 | P | 36 | 18.50 | 0.4 |

08d 21h

eSn 36 50.10
CVF 2.65 107 Pn 36 21.79 -1.2
S.D. = 0.9 on 18 of 18 obs.

& FEB 08, 1989 23h 34m 03.19s
59.802 N 153.268 W
DEPTH = 120.5km
SOUTHERN ALASKA (2)
<AGS-P>

| | | | | | | |
|--------------------|-------|-----|-----|----|-------|------|
| ILIM | 0.32 | 29 | iP | 34 | 20.00 | 1.0 |
| | | | iS | 34 | 33.82 | |
| RDT | 0.89 | 29 | iP | 34 | 23.77 | -0.8 |
| | | | iS | 34 | 39.21 | |
| NNL | 1.02 | 76 | iP | 34 | 26.13 | 0.4 |
| | | | iS | 34 | 43.36 | |
| CNPM | 1.07 | 104 | iP | 34 | 25.52 | -0.8 |
| | | | iS | 34 | 42.22 | |
| NKA | 1.38 | 46 | iP | 34 | 30.48 | 0.8 |
| SPU | 1.51 | 23 | iP | 34 | 30.12 | -1.1 |
| | | | iS | 34 | 52.06 | |
| CRP | 1.57 | 20 | iP | 34 | 31.29 | -0.7 |
| SLKM | 1.68 | 64 | eP | 34 | 31.72 | -1.5 |
| SVW | 1.75 | 319 | iPd | 34 | 31.90 | -2.2 |
| SEW | 1.95 | 79 | iP | 34 | 35.06 | -1.3 |
| | | | iS | 34 | 59.59 | |
| KDC | 2.10 | 169 | iPc | 34 | 35.90 | -2.4 |
| PMS | 2.34 | 50 | iP | 34 | 39.99 | -1.5 |
| PTE | 2.36 | 61 | eP | 34 | 39.71 | -2.0 |
| PWA | 2.49 | 40 | eP | 34 | 41.40 | -2.0 |
| PWL | 2.67 | 64 | iP | 34 | 43.48 | -2.4 |
| | | | eS | 35 | 14.84 | |
| PLRM | 2.71 | 47 | eP | 34 | 43.52 | -2.8 |
| PMR | 2.71 | 47 | eP | 34 | 43.50 | -2.8 |
| PME | 2.77 | 47 | eP | 34 | 44.51 | -2.6 |
| | | | eS | 35 | 17.19 | |
| KNK | 2.87 | 54 | iP | 34 | 45.89 | -2.6 |
| GHO | 2.91 | 45 | iP | 34 | 46.31 | -2.7 |
| SML | 3.15 | 48 | iP | 34 | 49.33 | -2.8 |
| TTA | 3.41 | 338 | eP | 34 | 53.19 | -2.5 |
| HIN | 3.44 | 77 | eP | 34 | 54.29 | -1.8 |
| MID | 3.54 | 93 | eP | 34 | 55.75 | -1.6 |
| VZW | 3.56 | 66 | eP | 34 | 54.62 | -3.1 |
| VLZ | 3.68 | 66 | eP | 34 | 57.22 | -2.1 |
| CVA | 3.83 | 76 | eP | 34 | 59.07 | -2.2 |
| KLU | 4.00 | 62 | iP | 35 | 00.83 | -2.8 |
| SGAM | 4.09 | 77 | eP | 35 | 02.35 | -2.5 |
| | | | eS | 35 | 45.86 | |
| TOA | 4.16 | 53 | eP | 35 | 03.70 | -2.1 |
| RAGM | 4.34 | 79 | eP | 35 | 06.38 | -1.9 |
| GLB | 4.94 | 66 | eP | 35 | 13.61 | -2.8 |
| FBA | 5.71 | 24 | eP | 35 | 23.50 | -3.4 |
| CTGM | 6.03 | 74 | eP | 35 | 30.32 | -1.2 |
| IMA | 6.29 | 358 | eP | 35 | 32.90 | -2.1 |
| HYT | 7.89 | 76 | P | 35 | 55.00 | -1.8 |
| INK | 12.08 | 37 | eP | 36 | 50.00 | -2.2 |
| YKA | 18.66 | 65 | P | 38 | 13.20 | -0.8 |
| 38 obs. associated | | | | | | |

FEB 08, 1989 23h 46m 41.44±0.19s
55.623 S ± 5.8km 26.795 W ± 5.2km
DEPTH = 23.7km (3 depth phases)
5.5mb (15 obs.) 5.6Msz (9 obs.)
SOUTH SANDWICH ISLANDS REGION (153)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 26C
Centroid Location:
Origin Time 23:46:47.2 0.4
Lat 55.41S 0.03 Lon 26.46W 0.10
Dep 15.0 FLX Half-duration 2.8
Moment Tensor: Scale 10**17 Nm
Mrr= 3.93 0.10 Mtt=-2.48 0.13
Mff=-1.45 0.12 Mrt=-1.18 0.37
Mrf= 0.58 0.37 Mtf= 2.93 0.13
Principal Axes:
T Val= 4.14 Plg=80 Azm=185
N 0.98 6 309
P -5.12 8 40
Best Double Couple: Mo=4.6*10**17
NP1: Strike=136 Dip=37 Slip= 99
NP2: 305 53 83

| | | | | | | |
|-----|-------|-----|-----|----------|-------|-------|
| AIA | 20.52 | 227 | eP | 51 | 21.20 | 1.1 |
| SYO | 31.75 | 141 | iP | 53 | 05.10 | -0.1 |
| SPA | 34.56 | 180 | iPc | 53 | 30.50 | 0.5 |
| | 1.1s | | | 136.90nm | | 5.8mb |

| | | | | | | |
|------|-------|-----|-----|----------|-------|---------|
| BMA | 35.32 | 332 | iPd | 53 | 38.40 | 1.7 |
| | | | e | 53 | 51.30 | 48kmX |
| ITA | 35.78 | 331 | iPd | 53 | 42.40 | 1.6 |
| TACH | 37.46 | 287 | eP | 53 | 54.00 | -0.5 |
| SAN | 37.46 | 288 | eP | 53 | 54.50 | -0.1 |
| LNV | 37.49 | 286 | eP | 53 | 53.50 | -1.2 |
| PEL | 37.71 | 288 | iPc | 53 | 56.10 | -0.6 |
| CER | 38.74 | 74 | iPd | 54 | 20.00 | 14.7X |
| | 1.0s | | | 30.00nm | | |
| SUR | 40.31 | 75 | iPc | 54 | 20.50 | 1.9 |
| | 0.7s | | | 27.40nm | | 5.1mb |
| Z | 18s | | | 4.81um | | 5.4Msz |
| MAW | 40.36 | 144 | eP | 54 | 19.00 | 0.7 |
| | 0.9s | | | 86.00nm | | 5.5mb |
| HJA | 43.07 | 303 | ePc | 54 | 41.10 | 0.2 |
| FRS | 44.81 | 77 | iPd | 54 | 56.50 | 1.6 |
| | 0.6s | | | 20.00nm | | 5.2mb |
| BLF | 45.78 | 77 | iPd | 55 | 04.00 | 1.1 |
| | | | i | 56 | 41.00 | 520kmX |
| SBA | 46.52 | 184 | Pd | 55 | 09.40 | 1.4 |
| CGY | 48.04 | 75 | eP | 55 | 15.50 | -5.0X |
| | 0.7s | | | 51.37nm | | 5.7mb |
| PRY | 48.19 | 77 | eP | 55 | 20.00 | -1.9 |
| | 0.9s | | | 23.08nm | | 5.2mb X |
| | | | i | 55 | 33.70 | 51kmX |
| CCH | 48.44 | 306 | P | 55 | 24.70 | 0.6 |
| BPI | 49.08 | 76 | iPd | 55 | 28.00 | -0.8 |
| | 1.0s | | | 50.00nm | | 5.5mb |
| SLR | 49.57 | 76 | iPc | 55 | 32.20 | -0.3 |
| | 1.1s | | | 31.65nm | | 5.3mb |
| Z | 20s | | | 12.77um | | 5.9Msz |
| CNCB | 49.79 | 304 | iPc | 55 | 35.30 | 0.5 |
| LPB | 50.09 | 304 | Pc | 55 | 38.00 | 1.1 |
| | 1.1s | | | 227.85nm | | 6.1mb |
| Z | 20s | | | 2.13um | | 5.1Msz |
| | | | LR | 11 | 44.00 | |
| ZOBO | 50.33 | 305 | iPc | 55 | 38.30 | -0.6 |
| | | | S | 00 | 12.00 | |
| | | | LR | 11 | 52.00 | |
| ARE | 51.77 | 301 | iP | 55 | 49.70 | 0.2 |
| BUL | 54.23 | 72 | iPd | 56 | 06.80 | -0.8 |
| | 1.0s | | | 37.50nm | | 5.4mb |
| ATB | 56.06 | 329 | Pc | 56 | 20.50 | -0.1 |
| KMZ | 58.31 | 65 | iPc | 56 | 36.00 | -0.8 |
| | | | i | 56 | 43.10 | 23km |
| | | | i | 57 | 49.20 | |
| PTZ | 60.54 | 71 | iPd | 56 | 52.00 | -0.2 |
| | | | i | 56 | 58.80 | 22km |
| | | | i | 57 | 44.00 | |
| | | | i | 58 | 14.20 | |
| LIC | 64.21 | 24 | P | 57 | 15.86 | -0.6 |
| KIC | 64.41 | 24 | P | 57 | 17.10 | -0.6 |
| | 1.0s | | | 51.00nm | | 5.6mb |
| TIC | 64.62 | 24 | P | 57 | 18.54 | -0.5 |
| | 0.9s | | | 47.00nm | | 5.6mb |
| LEGH | 64.90 | 29 | eP | 57 | 21.50 | 0.6 |
| SHGH | 65.21 | 30 | eP | 57 | 23.50 | 0.7 |
| KOGH | 65.30 | 29 | eP | 57 | 24.00 | 0.5 |
| AVY | 65.88 | 88 | iPd | 57 | 30.00 | 2.5 |
| BCAO | 70.47 | 49 | iP | 57 | 55.20 | -0.6 |
| | 0.6s | | | 10.80nm | | 5.2mb |
| | | | pP | 58 | 03.20 | 26km |
| BNG | 70.47 | 49 | iPc | 57 | 55.60 | -0.3 |
| | 0.7s | | | 35.00nm | | 5.6mb X |
| | | | ic | 58 | 10.10 | 51kmX |
| | | | id | 58 | 24.00 | |
| CEOS | 73.08 | 317 | eP | 58 | 11.50 | 0.0 |
| UAV | 73.82 | 314 | eP | 58 | 16.40 | 0.5 |
| SDV | 73.86 | 315 | eP | 58 | 16.60 | 0.5 |
| CAR | 73.90 | 319 | eP | 58 | 13.00 | -3.2X |
| NAI | 74.32 | 68 | eP | 58 | 23.00 | 4.1X |
| TOV | 74.35 | 316 | eP | 58 | 18.80 | 0.0 |
| MORO | 74.76 | 318 | eP | 58 | 21.50 | 0.3 |
| PAG | 77.21 | 326 | eP | 58 | 32.00 | -2.9 |
| SEG | 77.50 | 326 | eP | 58 | 37.00 | 0.6 |
| TAU | 81.71 | 176 | Pd | 58 | 58.00 | -0.8 |
| KRP | 84.89 | 198 | P | 59 | 14.10 | -1.0 |
| NWAO | 86.59 | 150 | eP | 59 | 23.00 | -0.7 |
| TIO | 87.81 | 17 | iP | 59 | 33.40 | 3.9X |
| KLB | 88.00 | 150 | eP | 59 | 31.00 | 0.5 |
| BAL | 88.62 | 149 | eP | 59 | 33.00 | -0.6 |
| ADE | 88.92 | 168 | eP | 59 | 33.00 | -2.0 |
| | 0.9s | | | 45.38nm | | 5.8mb |
| CAN | 89.35 | 177 | eP | 59 | 37.70 | 0.7 |
| COOL | 89.58 | 153 | eP | 59 | 38.00 | -0.1 |
| BWA | 90.22 | 176 | eP | 59 | 38.20 | -2.9 |
| IFR | 90.70 | 18 | iPd | 59 | 47.50 | 4.4X |

| | | | | | | |
|------|--------|-----|--------|---------|-------|---------|
| ASPA | 99.33 | 162 | iPd | 00 | 25.40 | 2.5 |
| | 0.9s | | | 20.00nm | | 5.7mb |
| | | | ePP | 04 | 26.00 | |
| WRA | 103.05 | 162 | Pdiff | 00 | 40.00 | 0.6 |
| | 0.8s | | | 2.00nm | | 4.9mb |
| WB2 | 103.05 | 162 | ePdiff | 00 | 39.30 | -0.1 |
| WB5 | 103.11 | 162 | ePdiff | 00 | 39.30 | -0.4 |
| RSNY | 107.64 | 326 | PKP | 05 | 00.00 | -7.1X |
| Z | 20s | | | 2.26um | | 5.7Msz |
| G8A | 109.15 | 94 | PKP | 05 | 10.00 | -0.7 |
| KHC | 109.70 | 27 | ePKP | 05 | 24.40 | 13.5X |
| MLR | 110.11 | 37 | ePKP | 05 | 10.00 | -1.9 |
| VRI | 110.70 | 37 | ePKP | 05 | 13.00 | 0.2 |
| ALQ | 112.70 | 299 | e(PKP) | 05 | 15.00 | -2.2 |
| HYB | 112.85 | 92 | ePKP | 05 | 17.50 | -0.3 |
| QUE | 116.37 | 75 | ePKP | 05 | 25.50 | 1.1 |
| MHI | 117.11 | 65 | ePKP | 05 | 26.00 | 0.4 |
| DAU | 119.34 | 299 | PKP | 05 | 31.00 | 1.0 |
| HFS | 119.81 | 22 | ePKP | 05 | 27.90 | -1.8 |
| | 0.4s | | | 0.80nm | | |
| Z | 20s | | | 0.00um | | 2.4MszX |
| | | | LR | 49 | 37.00 | |
| NAO | 119.85 | 20 | PKP | 05 | 29.80 | 0.0 |
| | 1.0s | | | 11.60nm | | |
| TNP | 120.61 | 294 | PKP | 05 | 33.00 | 0.7 |
| FRI | 121.10 | 291 | e(PKP) | 05 | 33.60 | 0.7 |
| KVN | 121.79 | 294 | PKP | 05 | 34.80 | 0.3 |
| CMB | 122.23 | 291 | ePKPc | 05 | 35.90 | 0.7 |
| FRB | 123.33 | 339 | ePKP | 05 | 36.00 | -0.3 |
| BGMT | 123.33 | 303 | ePKP | 05 | 37.50 | 0.2 |
| CCMT | 123.50 | 302 | ePKP | 05 | 38.60 | 1.0 |
| ORV | 123.94 | 292 | e(PKP) | 05 | 39.50 | 1.1 |
| BDT | 124.04 | 111 | ePKP | 05 | 37.30 | -1.8 |
| SUF | 124.99 | 27 | iPKP | 05 | 39.40 | -0.2 |
| WDC | 125.23 | 292 | ePKPc | 05 | 40.80 | 0.0 |
| | | | e | 05 | 54.20 | |
| LBFM | 125.44 | 293 | PKP | 05 | 42.20 | 0.7 |
| FFC | | | | | | |

e 07 11.00
MDJ 161.38 116 PKPd 06 40.00 0.1
S.D. = 1.1 on 95 of 120 obs.

FEB 09, 1989 01h 14m 17.07±0.79s
39.385 N ± 7.4km 0.363 E ± 7.6km
DEPTH = 10.0km (geophysicist)

SPAIN (377)
MG 3.2 (MDD).

| | | | | | | |
|------|------|-----|-----|----|-------|-------|
| ECHE | 1.05 | 282 | eP | 14 | 37.70 | 0.8 |
| ACU | 1.06 | 215 | iP | 14 | 37.30 | 0.2 |
| | | | eS | 14 | 50.30 | |
| EROO | 1.44 | 1 | iPc | 14 | 44.00 | 0.9 |
| | | | eS | 15 | 03.50 | |
| ESEL | 1.99 | 78 | iP | 14 | 51.60 | 0.4 |
| EVIA | 2.35 | 252 | eP | 14 | 55.70 | -0.8 |
| EBAN | 3.46 | 251 | eP | 15 | 22.00 | 9.9X |
| | | | eS | 16 | 01.00 | |
| EPF | 3.64 | 360 | Pn | 15 | 16.40 | 1.7 |
| | | | Pg | 15 | 28.00 | |
| | | | Sn | 15 | 56.60 | |
| | | | Sg | 16 | 14.20 | |
| GUD | 3.69 | 291 | eP | 15 | 15.20 | -0.3 |
| | | | eS | 15 | 56.00 | |
| ECRI | 3.89 | 327 | iP | 15 | 37.00 | 18.8X |
| | | | eS | 16 | 22.00 | |
| LPO | 5.33 | 6 | Pn | 15 | 38.70 | 0.1 |
| LFF | 5.56 | 3 | Pn | 15 | 41.70 | -0.1 |
| CAF | 5.68 | 12 | Pn | 15 | 43.40 | -0.1 |
| LMR | 6.08 | 48 | Pn | 15 | 55.00 | 5.9X |
| | | | Sn | 17 | 02.00 | |
| LSF | 6.91 | 7 | Pn | 15 | 59.70 | -1.2 |
| TCF | 7.03 | 11 | Pn | 16 | 01.00 | -1.5 |
| LPF | 8.70 | 354 | Pn | 16 | 21.40 | -4.4X |

S.D. = 1.0 on 12 of 16 obs.

* FEB 09, 1989 02h 06m 39.43±0.45s
55.748 S ±12.1km 26.818 W ± 8.4km
DEPTH = 25.7km (6 depth phases)
5.3mb (12 obs.) 5.0Msz (2 obs.)

SOUTH SANDWICH ISLANDS REGION (153)

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 23C
Centroid Location:
Origin Time 02:06:45.4 0.5
Lat 55.63S 0.04 Lon 26.14W 0.13
Dep 20.1 2.9 Half-duration 2.3
Moment Tensor: Scale 10**17 Nm
Mrr=-2.27 0.09 Mtt=-1.29 0.12
Mff=-0.98 0.09 Mrt=-0.48 0.24
Mrf=0.15 0.27 Mtf=1.42 0.12
Principal Axes:
T Vol= 2.33 Plg=82 Azm=175
N 0.27 6 311
P -2.60 5 42
Best Double Couple: Mo=2.5*10**17
NP1: Strike=138 Dip=40 Slip= 99
NP2: 306 51 83

| | | | | | | |
|------|-------|-----|---------|----|-------|--------|
| SPA | 34.43 | 180 | e(P) | 13 | 22.50 | -4.1X |
| | 1.1s | | 47.62nm | | 5.3mb | |
| BMA | 35.43 | 332 | eP | 13 | 36.50 | 1.2 |
| | | | e | 13 | 44.80 | 28km |
| ITA | 35.88 | 331 | eP | 13 | 40.50 | 1.1 |
| | | | e | 13 | 50.10 | 32km |
| PEL | 37.74 | 288 | iPc | 13 | 53.40 | -1.2 |
| MAW | 40.27 | 144 | eP | 14 | 14.00 | -1.2 |
| SUR | 40.36 | 75 | eP | 14 | 25.00 | 8.4X |
| | 0.6s | | 26.67nm | | 5.1mb | |
| GRM | 42.84 | 81 | eP | 14 | 40.50 | 3.7X |
| | 0.6s | | 17.33nm | | 5.0mb | |
| FRS | 44.85 | 77 | iPc | 14 | 57.50 | 4.5X |
| | 0.9s | | 21.01nm | | 5.1mb | |
| BLF | 45.82 | 77 | eP | 15 | 02.30 | 1.4 |
| CGY | 48.08 | 75 | eP | 15 | 13.50 | -5.1X |
| | 0.7s | | 23.97nm | | 5.3mb | |
| PRY | 48.23 | 76 | eP | 15 | 09.00 | -10.9X |
| | 1.1s | | 27.03nm | | | |
| | | | i | 15 | 36.20 | 116kmX |
| CCH | 48.50 | 306 | P | 15 | 22.30 | 0.0 |
| BPI | 49.13 | 76 | eP | 15 | 25.50 | -1.4 |
| | 0.8s | | 37.31nm | | 5.5mb | |
| SLR | 49.61 | 76 | eP | 15 | 33.00 | 2.5 |
| | 1.0s | | 20.00nm | | 5.1mb | |
| CNCB | 49.85 | 304 | iPc | 15 | 33.00 | 0.1 |

S 24 47.00
LPB 50.15 304 P 15 35.80 0.8
1.2s 218.75nm 6.0mb
Z 20s 0.71um 4.7Msz

S 22 48.00
PS 24 50.00
LR 31 42.00

ZOBO 50.39 305 iPc 15 36.00 -1.0
S 22 53.00
LR 31 52.00

ARE 51.82 301 iPc 15 47.40 -0.2
0.5s 33.10nm 5.5mb

BUL 54.28 72 iPd 16 04.10 -1.5
ATB 56.16 329 e(P) 16 17.40 -1.7
KMZ 58.37 65 iPd 16 34.00 -0.9

i 16 42.00 26km
i 17 29.30
PTZ 60.59 71 iP 16 49.30 -0.9
i 16 55.30 20km

i 17 05.80
i 17 34.50
LIC 64.33 24 P 17 13.98 -0.9

KIC 64.53 24 Pc 17 15.10 -1.1
TIC 64.74 24 P 17 16.46 -1.1
LEGH 65.02 29 eP 17 21.00 1.7

SHGH 65.32 30 eP 17 23.00 1.7
KOGH 65.42 29 eP 17 23.50 1.5
BCAO 70.56 49 eP 17 53.00 -1.1

0.7s 5.24nm 4.8mb
pP 18 00.10 23km
BNG 70.57 49 ePd 17 53.00 -1.1

0.4s 13.00nm 5.4mb
id 18 01.00 26km
ic 18 23.30
ic 18 38.80

PAG 77.30 326 eP 18 30.00 -3.1X
TAU 81.59 176 eP 18 57.00 1.1
TIO 87.93 17 iP 19 34.50 6.7X

IFR 90.82 18 iPd 19 46.50 5.1X
ASPA 99.21 162 iPc 20 22.70 2.6X
0.8s 10.00nm 5.4mb

WRA 102.93 162 Pd diff 20 17.00 -19.5X
FRB 123.44 339 ePKP 25 33.00 -1.2
DMN 124.58 91 PKP 25 37.90 -0.1

GKN 124.62 90 PKP 25 37.60 -0.3
0.8s 16.00nm
PKI 124.72 91 PKP 25 37.90 -0.4

0.9s 16.00nm
KKN 124.82 91 PKP 25 38.10 -0.3
0.8s 12.00nm

SUF 125.11 27 ePKP 25 37.00 -0.5
GUN 125.25 91 PKP 25 39.50 0.1
0.7s 14.00nm

KJF 126.73 26 ePKP 25 42.00 1.4
SOD 129.07 24 iPKP 25 45.00 0.0
EDM 129.68 309 ePKP 25 44.00 -2.7X

PNT 129.92 302 ePKP 25 48.00 0.8
YKA 136.08 318 PKP 25 46.20 -12.3X
WMO 137.64 78 ePKP 26 03.50 1.3

GTA 141.53 92 ePKP 26 06.20 -3.2X
Z 20s 0.60um 5.3Msz
XAN 142.73 107 ePKP 26 08.10 -3.4X

MBC 143.79 336 ePKP 26 09.00 -3.0X
0.7s 10.00nm
SSE 146.64 124 ePKP 26 19.80 1.7

TIY 147.37 106 iPKPd 26 21.80 2.6X
N 21s 1.70um
sPKP 26 35.00

BTO 148.07 100 PKP 26 23.50 3.2X
TIA 148.74 113 ePKP 26 24.70 3.3X
HHC 149.10 101 ePKP 26 26.70 4.8X

TOA 149.12 307 ePKP 26 25.80 4.6X
PMR 150.33 305 PKP 26 27.50 4.6X
0.8s 12.07nm

PMS 150.44 304 ePKP 26 28.50 5.3X
FBA 150.47 312 ePKP 26 27.70 4.6X
1.0s 28.80nm

KDC 150.81 297 ePKP 26 29.50 5.8X
BJI 151.06 107 ePKP 26 30.50 5.8X
IMA 153.05 314 ePKP 26 34.30 7.3X

TTA 153.75 307 ePKP 26 36.30 8.3X
S.D. = 1.2 on 37 of 65 obs.

* FEB 09, 1989 02h 15m 53.12±0.59s
55.795 S ±14.1km 26.527 W ±10.2km
DEPTH = 19.8km (3 depth phases)

5.3mb (9 obs.) 5.7Msz (1 obs.)
SOUTH SANDWICH ISLANDS REGION (153)

BMA 35.55 331 e(P) 22 53.00 2.2
ITA 36.00 331 eP 22 54.30 -0.6
FRS 44.70 76 iPc 24 07.50 1.2

0.3s 15.58nm 5.4mb
CGY 47.94 75 eP 24 28.00 -3.9X
0.5s 17.61nm 5.4mb

PRY 48.08 76 eP 24 32.20 -1.1
BPI 48.98 76 eP 24 40.50 0.3
0.6s 20.00nm 5.3mb

SLR 49.46 76 iPc 24 50.00 6.1X
1.0s 15.00nm 5.0mb
Z 18s 7.56um 5.7Msz

BUL 54.14 72 iPd 25 19.10 0.0
1.1s 25.32nm 5.2mb
KMZ 58.24 65 iPc 25 48.50 0.0

PTZ 60.45 71 iPc 26 04.50 0.7
i 26 10.50 20km
i 26 39.30

LIC 64.31 24 Pc 26 28.80 -0.5
KIC 64.51 24 Pc 26 29.90 -0.7
1.2s 45.00nm 5.5mb

TIC 64.72 24 Pc 26 31.20 -0.7
1.2s 45.00nm 5.5mb
SHGH 65.28 29 eP 26 36.00 0.4

KOGH 65.38 29 eP 26 36.00 -0.2
BCAO 70.47 48 eP 27 07.90 -0.2
0.9s 4.05nm 4.6mb

pP 27 14.20 20km
BNG 70.47 49 iPc 27 08.00 -0.1
0.7s 9.00nm 5.0mb

id 27 14.10 20km
MEM 109.43 21 ePKP 34 24.70 2.2X
FRB 123.54 339 ePKP 34 48.00 -1.0

DMN 124.42 91 PKP 34 52.70 0.4
GKN 124.45 90 PKP 34 52.30 0.1
PKI 124.56 91 PKP 34 52.70 0.1

KKN 124.65 91 PKP 34 52.80 0.1
GUN 125.08 91 PKP 34 54.20 0.5
0.8s 12.00nm

YKA 136.23 318 PKP 35 12.60 -0.7
MBC 143.90 336 ePKP 35 24.00 -2.8X
INK 145.84 321 ePKP 35 30.00 -0.3

S.D. = 0.8 on 23 of 27 obs.

* FEB 09, 1989 02h 26m 31.28±1.69s
41.782 N ± 9.7km 22.645 E ±14.5km
DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)

ML 1.8 (SKO).

KKB 0.34 75 iPg 26 37.00 -1.3
VAY 0.46 187 iPg 26 40.40 -0.3
iSg 26 47.30

MMB 0.83 103 iPg 26 48.00 0.6
VTS 0.91 27 iP 26 49.00 0.2
iSg 26 59.00

RZN 1.55 93 iP 27 00.00 0.8
S.D. = 1.2 on 5 of 5 obs.

* FEB 09, 1989 02h 30m 58.79±1.54s
51.237 N ±15.5km 15.726 E ± 8.8km
DEPTH = 10.0km (geophysicist)

POLAND (548)

ML 3.9 (VKA), 3.6 (KBA).

KSP 0.53 138 iPd 31 07.20 -2.4
0.6s 211.00nm
iS 31 16.70

PRU 1.46 212 Pn 31 25.70 0.5
Pg 31 27.50
Sn 31 44.00

Sg 31 53.50
CLL 1.71 274 ePn 31 27.00 -1.8
iPg 31 31.00

iSg 31 56.50
KHC 2.52 214 iPn 31 41.50 1.0
Pg 31 47.50

Sn 32 17.30
Sg 32 26.40
MOX 2.67 259 ePn 31 44.00 1.4

ePg 31 50.00
iSg 32 29.00
KRA 2.93 112 eP 31 48.40 2.2

[illegible]

S.D. = 0.9 on 116 of 129 obs.

FEB 09, 1989 05h 15m 45.80±0.70s
42.685 N ± 9.0km 101.898 W ± 3.7km
DEPTH = 5.0km (geophysicist)

NEBRASKA (463)

mbLg 3.8 (NEIS). Felt (V) at
Merriman; (IV) at Cody and
Rushville; (III) at Ashby,
Bingham, Crookston, Gordon, Hoy
Springs, Kilgore, Mullen,
Nenzel, Valentine and White
Clay; (II) at Sparks and
Thedford. Also felt (IV) at
Manderson and (III) at Allen,
Batesland and Mortin, South
Dakota.

| | | | | | | |
|------|-------|---------|------|----|-------|-------|
| LCNE | 2.60 | 121 | eP | 16 | 31.10 | 1.8 |
| | | | S | 17 | 05.70 | |
| GLD | 3.86 | 222 | ePn | 16 | 48.50 | 1.2 |
| GOL | 3.97 | 222 | ePn | 16 | 48.50 | -0.4 |
| WHNE | 4.17 | 109 | e(P) | 16 | 51.70 | 0.2 |
| | | | S | 17 | 36.00 | |
| CNK | 4.48 | 134 | i(P) | 16 | 51.00 | -4.9X |
| | | | S | 17 | 42.70 | |
| BENE | 4.68 | 120 | eP | 16 | 58.20 | -0.6 |
| | | | S | 17 | 50.90 | |
| JHN | 4.95 | 115 | eP | 17 | 03.00 | 0.5 |
| | | | S | 17 | 57.50 | |
| SNK | 4.95 | 137 | eP | 17 | 01.75 | -0.9 |
| | | | S | 17 | 56.70 | |
| TCK | 5.12 | 128 | eP | 17 | 03.90 | -1.1 |
| | | | S | 18 | 02.40 | |
| MLK | 5.21 | 132 | eP | 17 | 06.90 | 0.6 |
| | | | eS | 18 | 02.40 | |
| HWK | 5.62 | 119 | eP | 17 | 12.65 | 0.6 |
| | | | S | 18 | 12.80 | |
| BW06 | 5.64 | 274 | ePnc | 17 | 12.30 | -0.3 |
| EMK | 6.00 | 133 | iP | 17 | 16.75 | -0.6 |
| | | | S | 18 | 22.10 | |
| RW4 | 6.28 | 226 | eP | 17 | 22.90 | 1.2 |
| RW1 | 6.30 | 227 | eP | 17 | 22.30 | 0.4 |
| ACO | 6.34 | 160 | ePnd | 17 | 22.40 | 0.1 |
| PCO | 7.08 | 146 | ePn | 17 | 31.80 | -0.8 |
| BGMT | 7.75 | 293 | eP | 17 | 41.60 | -0.6 |
| HRV | 8.14 | 303 | eP | 17 | 45.20 | -2.4X |
| SIO | 8.17 | 146 | ePn | 17 | 45.80 | -2.1X |
| LRM | 8.20 | 296 | eP | 17 | 46.10 | -2.4X |
| FKO | 8.20 | 153 | (Pn) | 17 | 48.00 | -0.3 |
| LNO | 8.25 | 143 | ePn | 17 | 46.10 | -2.8X |
| TUL | 8.25 | 143 | iPn | 17 | 46.30 | -2.7X |
| | 0.5s | 14.60nm | | | 5.5mb | |
| MEO | 8.30 | 161 | ePn | 17 | 47.90 | -1.9X |
| RLO | 8.41 | 138 | ePn | 17 | 48.50 | -2.7X |
| ALQ | 8.51 | 206 | eP | 17 | 52.00 | -0.8 |
| ULM | 8.63 | 27 | P | 17 | 48.70 | -5.5X |
| | | | S | 19 | 19.00 | |
| VVO | 8.76 | 145 | ePn | 17 | 53.10 | -3.0X |
| MSU | 8.86 | 245 | eP | 17 | 56.60 | -1.0 |
| RSON | 9.92 | 32 | eP | 18 | 05.50 | -6.4X |
| FVM | 9.94 | 114 | eP | 18 | 08.00 | -4.3X |
| SES | 9.95 | 324 | eP | 18 | 09.00 | -3.5X |
| OLY | 10.82 | 128 | eP | 18 | 20.00 | -4.3X |
| ELC | 11.11 | 115 | eP | 18 | 24.00 | -4.4X |
| FFC | 12.05 | 360 | eP | 18 | 34.50 | -6.5X |
| GTO | 12.51 | 51 | P | 18 | 41.60 | -5.7X |
| | | | (S) | 20 | 54.00 | |
| KVN | 12.79 | 259 | eP | 18 | 52.00 | 0.8 |
| EDM | 13.02 | 328 | eP | 18 | 51.00 | -3.1X |
| PWLA | 13.24 | 121 | eP | 18 | 52.00 | -5.0X |

S.D. = 0.9 on 21 of 40 obs.

% FEB 09, 1989 07h 02m 54.53±1.25s
46.347 N ± 7.6km 3.778 E ± 9.8km
DEPTH = 10.0km (geophysicist)

FRANCE (538)

ML 2.7 (LDG).

| | | | | | | |
|-----|------|-----|----|----|-------|------|
| SMF | 0.30 | 8 | Pg | 03 | 01.50 | 0.7 |
| | | | Sg | 03 | 04.90 | |
| AVF | 0.53 | 327 | Pg | 03 | 05.20 | -0.1 |
| | | | Sg | 03 | 11.20 | |
| LBF | 0.65 | 12 | Pg | 03 | 07.40 | -0.2 |
| | | | Sg | 03 | 15.40 | |
| BGF | 0.68 | 288 | Pg | 03 | 08.20 | 0.2 |
| | | | Sg | 03 | 16.10 | |

| | | | | | | |
|-----|------|-----|----|----|-------|------|
| SSF | 0.74 | 345 | Pg | 03 | 08.70 | -0.3 |
| | | | Sg | 03 | 17.30 | |
| MAF | 0.85 | 262 | Pg | 03 | 11.90 | 1.0 |
| | | | Sg | 03 | 22.40 | |
| LOR | 0.92 | 3 | Pg | 03 | 12.10 | -0.1 |
| | | | Sg | 03 | 23.20 | |
| TCF | 1.09 | 267 | Pn | 03 | 15.10 | 0.1 |
| | | | Pg | 03 | 16.10 | |
| | | | Sg | 03 | 29.20 | |
| LSF | 1.56 | 267 | Pn | 03 | 21.10 | -1.3 |
| | | | Pg | 03 | 23.70 | |
| | | | Sg | 03 | 44.80 | |
| CAF | 1.86 | 221 | Pn | 03 | 26.80 | 0.0 |
| | | | Pg | 03 | 31.00 | |
| | | | Sg | 03 | 54.80 | |
| LPG | 2.24 | 111 | Pg | 03 | 40.80 | 8.3X |

S.D. = 0.7 on 10 of 11 obs.

% FEB 09, 1989 08h 58m 32.83±2.93s
40.355 N ± 11.9km 30.678 E ± 23.8km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

| | | | | | | |
|------|------|-----|-----|----|-------|------|
| GPA | 0.29 | 257 | ePn | 58 | 38.50 | -0.4 |
| HRT | 0.90 | 302 | ePn | 58 | 49.10 | -1.0 |
| YLV | 1.02 | 282 | iPn | 58 | 54.90 | 2.8X |
| GBZT | 1.03 | 295 | ePn | 58 | 52.60 | 0.2 |
| ISK | 1.42 | 300 | ePn | 58 | 59.00 | 0.3 |
| DST | 1.74 | 245 | ePn | 59 | 09.00 | 5.6X |
| KCT | 1.78 | 267 | ePn | 59 | 05.00 | 1.2 |
| KHL | 2.22 | 204 | ePn | 59 | 10.00 | -0.3 |

S.D. = 1.0 on 6 of 8 obs.

% FEB 09, 1989 10h 19m 19.70±0.89s
42.382 N ± 6.6km 8.513 W ± 8.5km
DEPTH = 5.0km (geophysicist)

SPAIN (377)

MG 3.0 (MDD). Felt (III) in the Pontevedra area.

| | | | | | | |
|------|------|-----|------|----|-------|------|
| EZAM | 0.27 | 210 | iPgd | 19 | 25.40 | 0.2 |
| STS | 0.50 | 357 | ePg | 19 | 29.70 | -0.1 |
| | | | eSg | 19 | 36.70 | |
| ERUA | 1.02 | 89 | iPg | 19 | 39.90 | 0.5 |
| | | | eSg | 19 | 55.50 | |
| EPLA | 2.95 | 141 | ePn | 20 | 07.70 | -0.5 |
| | | | eSn | 20 | 42.40 | |
| GUD | 3.71 | 117 | ePn | 20 | 18.80 | -0.2 |
| | | | eSn | 21 | 02.30 | |

S.D. = 0.5 on 5 of 5 obs.

FEB 09, 1989 10h 43m 50.04±1.31s
45.551 N ± 7.4km 26.428 E ± 8.4km
DEPTH = 149.5 ± 16.9 km

ROMANIA (358)

| | | | | | | |
|------|------|-----|-----|----|-------|-------|
| MLR | 0.35 | 260 | iPc | 44 | 10.20 | -0.2 |
| VRI | 0.38 | 33 | iPc | 44 | 10.00 | -0.4 |
| ISR | 0.42 | 169 | iPc | 44 | 11.00 | 0.4 |
| PPE | 1.06 | 51 | iPc | 44 | 16.00 | 0.4 |
| BIR | 1.10 | 49 | iPc | 44 | 15.50 | -0.4 |
| CLI | 1.16 | 30 | iPc | 44 | 15.50 | -1.0 |
| BUC1 | 1.24 | 193 | iPc | 44 | 36.00 | 18.8X |
| CFR | 1.27 | 106 | iPc | 44 | 17.00 | -0.5 |
| PTT | 1.38 | 359 | eP | 44 | 20.00 | 1.3 |
| TLB | 1.49 | 130 | iPc | 44 | 20.00 | 0.3 |
| CVD | 1.67 | 136 | iPc | 44 | 48.00 | 26.3X |
| PSN | 2.25 | 146 | eP | 44 | 29.00 | 0.5 |
| SZH | 2.31 | 189 | iP | 44 | 29.00 | -0.3 |
| PVL | 2.46 | 199 | iPd | 44 | 32.00 | 0.9 |
| JMB | 3.09 | 178 | iP | 44 | 38.00 | -1.0 |
| BZS | 3.38 | 273 | ePc | 44 | 43.00 | 0.2 |
| PGB | 3.41 | 209 | iPd | 44 | 43.00 | -0.3 |
| VTS | 3.76 | 219 | iP | 44 | 48.00 | 0.1 |
| DMK | 3.85 | 165 | ePn | 45 | 19.00 | 30.0X |
| KDZ | 3.97 | 191 | iP | 44 | 51.00 | 0.4 |
| MMB | 4.42 | 207 | iPd | 44 | 57.00 | 0.4 |
| VAY | 5.08 | 215 | ePn | 45 | 06.70 | 1.5 |
| SKO | 5.08 | 227 | ePn | 45 | 03.00 | -2.4 |

S.D. = 0.9 on 20 of 23 obs.

* FEB 09, 1989 10h 54m 31.66±3.61s
45.010 N ± 6.5km 6.481 E ± 28.8km
DEPTH = 10.0km (geophysicist)

FRANCE (538)

ML 2.2 (GEN).

| | | | | | | |
|-----|------|-----|-----|----|-------|------|
| BNI | 0.14 | 73 | Pc | 54 | 35.20 | 0.0 |
| | | | eSg | 54 | 37.00 | |
| RRL | 0.23 | 113 | P | 54 | 36.96 | 0.2 |
| | | | S | 54 | 40.25 | |
| RSP | 0.57 | 75 | P | 54 | 43.02 | -0.3 |
| | | | S | 54 | 51.22 | |
| LSD | 0.65 | 47 | P | 54 | 44.86 | 0.0 |
| | | | S | 54 | 53.37 | |
| PZZ | 0.67 | 139 | P | 54 | 45.16 | 0.1 |
| | | | S | 54 | 53.77 | |
| STV | 0.97 | 142 | P | 54 | 49.52 | -0.7 |
| | | | S | 55 | 02.65 | |
| ROB | 1.22 | 125 | P | 54 | 54.23 | -0.2 |
| | | | S | 55 | 09.56 | |
| ORX | 1.23 | 59 | P | 54 | 54.50 | -0.1 |
| FIN | 1.47 | 122 | Pd | 54 | 59.31 | 1.1 |

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

* FEB 09, 1989 12h 26m 32.15±1.31s
38.929 N ± 11.1km 143.006 E ± 11.8km
DEPTH = 10.0km (geophysicist)

4.4mb (1 obs.)

OFF EAST COAST OF HONSHU, JAPAN (229)

Felt (I JMA) at Yamagoto.

| | | | | | | |
|------|------|-----|-----|----|-------|------|
| OFUJ | 1.05 | 279 | iPd | 26 | 50.50 | -1.5 |
| | | | S | 27 | 00.00 | |
| YAMJ | 2.45 | 253 | P | 27 | 11.50 | -1.3 |
| | | | S | 27 | 37.50 | |
| AOMJ | 2.60 | 310 | eP | 27 | 16.00 | 1.1 |
| | | | S | 27 | 44.20 | |
| KAKJ | 3.53 | 220 | eP | 27 | 26.50 | -1.6 |
| | | | eS | 28 | 04.50 | |
| NIJ | 3.58 | 243 | eP | 27 | 29.10 | 0.2 |
| CHJJ | 4.29 | 229 | P | 27 | 40.00 | 1.0 |
| MAT | 4.49 | 239 | eP | 27 | 42.00 | 0.3 |

0.8s 22.39nm

(S)

| | | | | | | |
|------|-------|-----|--------|----|-------|------|
| MTMJ | 4.74 | 242 | P | 27 | 46.50 | 1.0 |
| IIDJ | 5.33 | 231 | P | 27 | 55.20 | 1.5 |
| WB5 | 59.06 | 189 | eP | 36 | 34.60 | -0.1 |
| WB2 | 59.12 | 189 | eP | 36 | 34.60 | -0.5 |
| WRA | 59.12 | 190 | Pd | 36 | 35.10 | -0.1 |
| | 0.4s | | 1.20nm | | 4.4mb | |
| GBA | 62.62 | 266 | P | 36 | 59.00 | -0.1 |

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

FEB 09, 1989 13h 11m 23.29±0.87s
43.400 N ± 5.4km 5.428 E ± 6.7km
DEPTH = 10.0km (geophysicist)

NEAR SOUTH COAST OF FRANCE (379)

MD 2.9 (STR).

| | | | | | | |
|------------------------------|------|-----|------|----|-------|------|
| GELF | 0.02 | 180 | Pg | 11 | 25.21 | 0.0 |
| BERF | 0.21 | 114 | P | 11 | 28.25 | 0.3 |
| TREF | 0.23 | 352 | Pg | 11 | 27.19 | -1.0 |
| PUYF | 0.24 | 56 | Pg | 11 | 27.14 | -1.3 |
| PRAF | 0.45 | 335 | Pg | 11 | 32.15 | -0.2 |
| VILF | 0.50 | 25 | Pg | 11 | 32.28 | -1.1 |
| TAVF | 0.51 | 64 | Pg | 11 | 32.78 | -0.8 |
| GANF | 0.69 | 30 | Pg | 11 | 37.11 | 0.1 |
| CALN | 1.12 | 71 | Pg | 11 | 44.85 | 0.5 |
| | | | Sg | 12 | 01.49 | |
| MVIF | 1.35 | 68 | Pn | 11 | 48.30 | 0.1 |
| | | | Sg | 12 | 07.52 | |
| TOUF | 1.46 | 64 | Pn | 11 | 49.92 | 0.1 |
| AURF | 1.46 | 70 | Pn | 11 | 49.84 | 0.0 |
| FOUF | 1.49 | 40 | P | 11 | 51.10 | 1.0 |
| | | | (Sg) | 12 | 10.15 | |
| AUTN | 1.57 | 67 | Pn | 11 | 51.94 | 0.5 |
| SAOF | 1.65 | 68 | Pn | 11 | 52.33 | -0.1 |
| DOI | 1.71 | 49 | P | 11 | 53.60 | 0.2 |
| | | | eSn | 12 | 16.60 | |
| BNI | 1.88 | 28 | P | 11 | 58.50 | 2.6 |
| | | | eSn | 12 | 20.50 | |
| CKI | 2.30 | 63 | P | 12 | 02.40 | 0.5 |
| | | | eSn | 12 | 31.10 | |
| CVF | 2.66 | 107 | Pn | 12 | 05.52 | -1.5 |
| S. D. = 1.0 on 19 of 19 obs. | | | | | | |

09d 13h

KMY 0.93 167 iSg 28 37.07
 SUE 0.95 358 eP 28 23.69 -0.4
 BLS1 1.24 125 eP 28 35.22 0.8
 HYA 1.25 32 eSg 28 27.99 0.2
 28 41.38
 28 28.48 -1.1
 28 47.21

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

FEB 09, 1989 13h 38m 19.88 ± 0.67s
 23.215 N ± 4.2km 123.384 E ± 5.2km
 DEPTH = 7.5 ± 3.5 km
 4.8mb (12 obs.)

SOUTHWESTERN RYUKYU ISLANDS (246)

TWD 1.85 298 iPc 38 51.40 -0.8
 TWF1 1.92 274 iPc 38 52.20 -1.1
 39 15.20
 TWC 1.97 315 eP 38 54.50 0.5
 39 19.50
 TWG 2.17 260 ePc 38 55.80 -1.0
 TWZ 2.50 319 eP 39 02.10 0.6
 ANP 2.60 319 eP 39 04.00 1.0
 QZH 4.71 292 ePn 39 31.70 -1.2
 40 21.20
 Sn
 PIP 5.51 209 iPc 39 46.50 2.2
 BAG 7.26 202 eP 40 08.90 -0.3
 SSE 8.09 346 P 40 19.00 -1.5
 0.7s 0.05nm 2.8mb X
 GZH 9.24 271 eP 40 36.50 0.0
 N 10s 2.70um
 NJ2 9.67 336 Pc 40 40.60 -1.8
 Z 12s 2.10um
 N 10s 1.90um
 E 11s 1.30um
 WHN 10.87 314 eP 40 58.50 -0.4
 Z 12s 24.20um
 GYA 15.52 285 P 42 07.80 6.9X
 Z 12s 18.90um
 E 12s 1.90um
 XAN 16.64 314 Pc 42 18.90 3.7X
 TIY 17.24 329 eP 42 25.00 2.3
 Z 12s 1.46um
 N 11s 1.46um
 pP
 IIDJ 17.57 43 P 42 29.50
 BJI 17.85 342 eP 42 31.80 4.9X
 42 30.00 -0.2
 Z 12s 1.00um
 N 10s 0.80um
 MTMJ 18.24 40 P 42 36.90 1.7
 MAT 18.45 41 iPd 42 38.60 0.9
 0.9s 33.61nm 4.5mb
 eS
 SNY 18.56 0 iPc 42 23.00
 42 38.90 -0.1
 N 12s 0.70um
 CHJJ 18.61 43 P 42 40.90 1.2
 KMI 18.93 280 Pd 42 46.00 2.1
 Z 12s 2.20um
 E 13s 1.30um
 CD2 19.07 298 iPd 42 46.00 0.6
 HHC 20.20 333 eP 42 57.50 -0.6
 Z 12s 1.20um 4.5MsZx
 N 10s 1.00um
 E 10s 0.40um
 CN2 20.60 4 iPc 43 01.20 -0.9
 Z 12s 1.20um 4.5MsZx
 N 12s 0.80um
 BTO 20.67 330 eP 43 02.00 -1.0
 Z 11s 0.90um 4.4MsZx
 E 11s 0.90um
 LZH 21.23 312 eP 43 09.50 0.7
 2.0s 0.14nm 2.0mb X
 Z 15s 0.80um 4.2MsZx
 E 10s 0.40um
 MDJ 21.95 12 eP 43 14.40 -1.3
 Z 10s 1.90um 4.8MsZx
 CHTO 23.22 264 eP 43 29.10 0.6
 1.0s 7.00nm 4.2mb
 pP
 GTA 25.70 314 Pc 43 39.80 41kmX
 43 52.00 -0.4
 Z 14s 0.90um 4.4MsZx
 N 10s 0.60um
 WMO 35.78 314 iPd 45 22.00 0.4
 WB5 44.15 165 eP 46 30.00 -1.0
 WRA 44.21 165 Pd 46 30.80 -0.6

0.8s 5.20nm 4.4mb
 WB2 44.21 165 eP 46 30.00 -1.4
 GBA 44.47 266 Pd 46 34.70 1.0
 0.7s 2.00nm 4.1mb
 KOD 45.64 261 eP 46 44.50 1.1
 ASPA 47.71 167 iPc 46 59.30 0.1
 0.8s 10.00nm 5.0mb
 WARB 49.21 176 eP 47 04.00 -6.8X
 0.7s 9.00nm 4.9mb
 MEKA 49.76 186 iPc 47 13.70 -1.3
 MHI 56.08 299 iPc 48 02.60 0.5
 SOD 71.37 336 eP 49 41.00 -1.0
 KJF 71.78 333 iP 49 44.20 -0.3
 0.8s 14.70nm 5.1mb
 SUF 72.87 331 iP 49 50.50 -0.5
 0.7s 9.20nm 5.0mb
 INK 73.36 22 eP 49 54.00 0.2
 MBC 73.76 13 eP 49 55.00 -1.0
 NUR 74.25 329 iP 49 59.00 0.0
 DAG 77.64 352 iPd 50 17.20 -0.8
 0.6s 6.00nm 4.9mb
 UPP 77.74 330 iP 50 18.50 -0.2
 MLR 78.77 315 ePc 50 24.50 -0.4
 HFS 79.39 331 eP 50 27.20 -0.6
 0.8s 10.80nm 4.9mb
 Z 15s 0.17um 4.5MsZx
 LR 27 12.00
 NB2 80.01 333 P 50 30.60 -0.6
 0.8s 8.70nm 4.8mb
 KSP 82.43 322 eP 50 44.20 0.1
 YKA 83.07 23 P 50 48.20 1.1
 YKC 83.12 23 eP 50 48.00 0.6
 CLL 84.03 324 iP 50 53.00 0.8
 1.1s 13.00nm 5.1mb
 i
 KHC 84.79 322 P 50 57.00 0.8
 EDM 89.44 30 eP 51 20.00 1.3
 S.D. = 1.0 on 54 of 58 obs.

FEB 09, 1989 15h 25m 24.11 ± 0.63s
 39.025 N ± 6.4km 27.674 E ± 5.4km
 DEPTH = 9.6 ± 4.6 km

TURKEY (366)

MD 3.8 (ATH).

IZM 0.70 207 iPg 25 38.10 0.0
 eSg
 DST 0.94 52 iPg 25 49.10 -1.0
 25 41.10
 eSg
 PRK 1.11 282 ePb 25 55.10 0.6
 eSb
 EZN 1.32 308 iPn 25 45.60 -0.5
 EDC 1.33 6 iPn 25 47.50 -1.1
 KCT 1.33 23 iPn 25 48.30 -0.4
 KHL 1.61 115 iPn 25 52.40 -0.4
 CTT 2.20 15 ePn 26 00.50 -0.7
 GBZT 2.23 37 ePn 26 04.00 2.4
 ISK 2.30 27 ePn 26 03.50 0.8
 HRT 2.36 40 ePn 26 06.00 2.4
 GPA 2.39 57 iPn 26 03.40 -0.7
 RDO 2.68 323 ePn 26 08.00 -0.1
 BCK 2.78 123 ePn 26 08.00 -1.6
 DMK 2.79 1 iPn 26 07.90 -1.8
 ELL 2.88 141 ePn 26 11.00 -0.1
 KDZ 3.14 327 iPd 26 14.00 -0.6
 RZN 3.49 321 iP 26 19.00 -0.7
 MMB 3.96 312 eP 26 26.00 -0.2
 BBTK 4.02 77 eP 26 40.50 13.3X
 eS
 i
 PGB 4.41 324 iP 26 31.00 -1.7
 VAY 4.53 302 ePn 26 35.30 0.9
 VTS 4.92 318 eP 26 42.00 2.0
 MLR 6.59 349 ePc 26 54.50 -9.0X
 S.D. = 1.3 on 22 of 24 obs.

* FEB 09, 1989 15h 29m 44.42 ± 2.07s
 41.372 N ± 12.0km 141.990 E ± 12.2km
 DEPTH = 112.6 ± 20.6 km
 4.4mb (10 obs.)

HOKKAIDO, JAPAN REGION (224)

MAT 5.65 213 (P) 31 07.00 -0.4
 0.6s 14.67nm 4.4mb
 (S)
 CHTO 42.94 252 eP 37 34.70 1.1
 0.7s 2.22nm 4.1mb

FBA 45.24 34 eP 37 53.00 1.5
 0.9s 1.90nm 3.9mb
 GUN 47.31 272 P 38 09.50 0.6
 KKN 47.83 272 P 38 13.30 0.6
 0.7s 21.00nm 5.0mb
 PKI 47.85 272 P 38 13.30 0.3
 0.6s 6.00nm 4.6mb
 DMN 48.05 272 P 38 15.20 0.7
 0.6s 10.00nm 4.8mb
 GKN 48.20 273 P 38 15.80 0.3
 0.6s 14.00nm 5.0mb
 INK 50.35 29 ePc 38 31.10 0.0
 YKA 59.86 31 P 39 41.10 1.2
 WB5 61.35 188 eP 39 50.00 -0.4
 WB2 61.41 188 eP 39 50.00 -0.8
 KJF 62.83 333 eP 39 58.00 -1.8
 SUF 64.33 333 iP 40 08.70 -0.9
 0.3s 1.40nm 4.4mb
 NUR 66.35 331 iP 40 21.50 -1.0
 HFS 70.33 335 eP 40 46.70 -0.5
 0.4s 2.10nm 4.3mb
 NB2 70.37 337 P 40 47.00 -0.5
 0.5s 1.50nm 4.1mb
 KHC 79.09 328 eP 41 29.30 -8.2X
 S.D. = 1.0 on 17 of 18 obs.

& FEB 09, 1989 17h 55m 06.83s
 61.795 N 149.584 W

SOUTHERN ALASKA (2)

<AGS-P>.

PWA 0.20 224 iP 55 14.06 -0.1
 PLRM 0.30 133 iP 55 14.30 -0.8
 iS
 PME 0.31 122 iP 55 14.72 -0.6
 iS
 GH0 0.31 94 iP 55 15.06 -0.4
 iS
 PMS 0.55 179 eP 55 17.52 -0.8
 SML 0.59 88 iP 55 18.00 -0.9
 iS
 KNK 0.66 125 iP 55 19.13 -0.7
 iS
 PTE 0.97 164 iP 55 23.07 -1.1
 eS
 PWL 1.12 147 iP 55 25.15 -1.1
 eS
 NKA 1.32 218 eP 55 30.30 1.2
 SLKM 1.33 194 eP 55 28.12 -1.1
 SPU 1.34 244 iP 55 28.67 -0.7
 CRP 1.34 248 eP 55 29.10 -0.5
 eS
 VZW 1.63 116 eP 55 32.76 -0.9
 TOA 1.64 78 iP 55 33.99 0.2
 iS
 VLZ 1.70 112 eP 55 33.30 -1.1
 SEW 1.70 178 eP 55 33.70 -0.7
 KLU 1.78 98 iP 55 34.82 -0.8
 iS
 RDT 1.84 229 eP 55 35.32 -1.2
 eS
 HIN 2.05 132 iP 55 38.25 -1.4
 eS
 CVA 2.24 122 eP 55 42.48 0.2
 ILIM 2.38 225 eP 55 43.04 -1.3
 SGAM 2.49 120 eP 55 46.09 0.3
 RAGM 2.77 118 eP 55 51.58 1.8
 GLB 2.78 95 eP 55 48.20 -1.7
 SVW 2.98 259 eP 55 51.00 -1.8
 TTA 3.20 294 eP 55 53.84 -2.2
 FBA 3.22 14 eP 55 54.85 -1.3

28 obs. associated

? FEB 09, 1989 18h 43m 44.10 ± 14.84s
 40.240 N ± 24.6km 125.584 W ± 117.km
 DEPTH = 10.0km (geophysicist)
 OFF COAST OF NORTHERN CALIFORNIA (34)
 ML 3.2 (BRK).

FHC 1.34 65 iPc 44 08.60 -0.2
 eS
 WDC 2.35 81 iPc 44 23.50 0.2
 eS
 LTCM 2.65 90 eP 44 28.50 0.9
 LBFM 3.01 67 eP 44 33.00 0.0
 MIN 3.05 87 eP 44 33.40 0.1

KVN 5.90 99 eP 45 13.00 -0.8
S.D. = 0.7 on 6 of 6 obs.

FEB 09, 1989 18h 58m 26.73 ± 0.30s
41.997 S ± 7.3km 88.081 E ± 5.5km
DEPTH = 21.7km (5 depth phases)
5.2mb (16 obs.) 5.3Msz (8 obs.)

SOUTHEAST INDIAN RISE (435)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 10S, 19C

Centroid Location:

Origin Time 18:58:31.0 0.8

Lat 42.12S 0.07 Lon 87.67E 0.08

Dep 15.0 FIX Half-duration 1.9

Moment Tensor; Scale 10¹⁷ Nm

Mrr=-0.64 0.05 Mtt=1.79 0.06

Mff=-1.15 0.06 Mrt=-0.12 0.22

Mrf= 0.19 0.15 Mtf= 0.36 0.07

Principal Axes:

T Val= 1.84 Plg= 2 Azm=173

N -0.58 72 270

P -1.26 18 83

Best Double Couple: Ma=1.6*10¹⁷

NP1: Strike=219 Dip=76 Slip=-169

NP2: 127 79 -14

MUN 24.50 75 eP 03 47.00 1.5

NWAO 24.75 78 eP 03 50.00 2.0

MAW 29.06 200 eP 04 27.50 0.4

MEKA 29.27 68 eP 04 29.00 -0.5

SYO 36.91 207 eP 05 35.00 -0.2

ADE 39.77 97 eP 06 00.00 0.4

1.1s 48.10nm 5.1mb

AVY 41.18 291 iPd 06 19.40 7.9X

ASPA 42.06 79 eP 06 17.50 -1.1

1.3s 30.00nm 4.9mb

Z 23s 3.45um 5.2MszX

LR 21 02.00

WRA 44.69 75 Pc 06 38.60 -1.3

1.1s 26.30nm 5.0mb

WB2 44.70 75 eP 06 39.70 -0.3

WB5 44.75 75 eP 06 39.70 -0.7

QIS 48.14 80 eP 07 06.00 -1.2

SPA 48.20 180 e(P) 07 07.50 0.2

1.3s 60.00nm 5.5mb

SNG 50.26 16 eP 07 11.80 -11.6X

eS 14 38.00

SEK 50.31 265 eP 07 25.00 1.0

BPI 51.18 268 eP 07 28.50 -2.2

0.5s 30.99nm 5.5mb

SLR 51.24 269 eP 07 32.50 1.4

1.2s 23.44nm 5.0mb

Z 20s 3.19um 5.3Msz

FRS 51.26 262 e(P) 07 14.00 -16.9X

RMQ 51.47 93 eP 07 32.00 -0.6

CGY 52.32 267 eP 07 33.50 -5.5X

0.7s 17.12nm 5.1mb

KOD 52.88 347 eP 07 44.00 0.5

CTA 53.34 85 iPc 07 46.00 -0.7

1.2s 39.06nm 5.2mb

iS 15 30.00

BRS 53.96 96 Pc 07 50.50 -0.7

iPP 07 56.50 54kmX

i 08 05.00

BUL 54.27 274 iPc 07 52.60 -1.0

1.0s 55.00nm 5.5mb

NNT 55.36 14 eP 08 02.00 0.6

PTZ 55.98 282 ePd 08 05.00 -1.1

e 08 12.00 23km

e 08 19.00

i 08 26.30

i 08 06.00 -1.2

TZZ 59.60 67 eP 08 21.50 -10.0X

HYB 59.76 349 eP 08 31.00 -1.4

KMZ 60.54 279 iPc 08 38.50 0.5

i 08 44.90 21km

i 08 49.30

CHTO 61.33 12 eP 08 42.00 -1.0

1.2s 4.17nm 4.4mb

pP 08 49.60 25km

KMI 68.14 14 Pc 09 28.50 1.1

Z 23s 2.70um 5.4MszX

N 17s 1.70um

eS 18 33.00

PKI 69.26 357 P 09 33.80 -0.6

1.1s 34.00nm 5.4mb

DMN 69.31 357 P 09 34.60 0.0

1.1s 69.00nm 5.7mb

KKN 69.48 357 P 09 35.40 -0.2

1.1s 56.00nm 5.6mb

GUN 69.59 358 P 09 36.40 0.0

GKN 69.72 357 P 09 36.60 -0.4

1.2s 68.00nm 5.7mb

CD2 73.97 14 eP 10 02.00 -0.1

QUE 74.42 341 eP 10 04.30 -0.7

WHN 76.14 23 eP 10 15.60 1.1

Z 22s 1.46um 5.2Msz

S 20 04.00

BNG 77.96 287 ePc 10 25.90 0.9

0.7s 12.00nm 5.0mb

id 10 32.00 19km

BCAO 77.96 287 eP 10 25.20 0.2

1.2s 5.56nm 4.5mb

e 10 31.60 20km

XAN 78.05 18 P 10 25.00 -0.1

SSE 78.87 29 eP 10 32.00 2.5

Z 20s 0.90um 5.1Msz

eS 20 32.00

LZH 79.04 13 eP 10 30.50 -0.1

1.5s 0.04nm 2.3mb X

Z 28s 0.90um 5.0MszX

GTA 81.73 9 Pc 10 45.20 0.4

5.0s 0.40nm 2.7mb X

Z 20s 0.90um 5.1Msz

E 20s 1.10um

KSH 81.81 351 eP 10 50.00 4.8X

TIY 82.38 19 eP 10 47.40 -0.8

N 16s 1.00um

S 21 02.50

BTO 84.58 17 eP 11 00.60 1.3

Z 20s 1.80um 5.5Msz

E 20s 1.60um

eSKS 21 24.00

S 21 30.00

HHC 85.16 18 eP 11 01.60 -0.6

Z 22s 1.60um 5.4Msz

N 19s 1.40um

WMO 85.43 360 eP 11 04.00 0.6

Z 18s 1.20um 5.3Msz

BJI 85.54 21 eP 11 05.00 1.0

Z 20s 1.30um 5.3Msz

eS 21 36.00

INK 145.70 26 ePKPd 18 03.60 -0.2

1.0s 84.00nm

GDH 146.21 337 ePKP 18 06.00 1.4

FRB 154.34 336 ePKP 18 23.00 6.0X

YKA 155.47 26 PKP 18 33.40 14.9X

S.D. = 1.0 on 48 of 56 obs.

FEB 09, 1989 19h 16m 41.97 ± 0.97s

0.501 N ± 5.2km 122.264 E ± 7.6km

DEPTH = 107.9 ± 11.3 km

4.7mb (11 obs.)

MINAHASSA PENINSULA (265)

MNI 2.74 70 ePc 17 24.60 -0.6

eS 17 55.00

TSM 5.59 312 ePd 18 04.10 0.0

e 19 07.40

MTN 15.91 147 eP 20 22.00 0.9

KNA 17.38 159 eP 20 40.00 0.8

PPI 21.89 268 eP 21 27.00 -0.4

PSI 23.43 276 ePd 21 42.50 0.1

WB5 23.47 150 eP 21 43.80 1.0

WRA 23.51 150 Pd 21 44.00 0.8

0.9s 14.00nm 4.4mb

WB2 23.52 150 eP 21 43.80 0.5

NANU 23.84 196 eP 21 46.50 0.1

0.5s 33.00nm 5.0mb

ANP 24.55 358 eP 21 51.50 -1.7

ASPA 26.55 156 iPc 22 12.40 0.7

0.6s 6.00nm 4.3mb

WARB 26.86 171 iPc 22 07.80 -6.7X

0.4s 7.00nm 4.6mb

MEKA 27.20 187 iPc 22 16.60 -0.9

0.4s 14.00nm 4.9mb

CHTO 29.24 310 eP 22 35.80 -0.2

WHN 30.81 347 P 22 51.00 1.4

BAL 31.38 189 eP 22 53.00 -1.7

FORR 31.67 170 iPd 22 56.20 -0.9

0.4s 9.00nm 4.9mb

KLB 32.20 187 eP 23 01.00 -0.8

NWAO 33.59 188 eP 23 13.00 -0.8

CD2 34.97 332 eP 23 26.00 0.3

MAT 38.79 21 eP 23 56.00 -1.7

1.5s 50.00nm 5.1mb

GTA 43.82 335 iPd 24 40.00 0.9

GUN 44.24 311 Pc 24 43.40 0.6

0.7s 17.00nm 5.0mb

PKI 44.42 310 Pc 24 44.40 0.1

0.6s 5.00nm 4.5mb

KKN 44.63 311 Pc 24 46.20 0.4

DMN 44.67 310 Pc 24 46.60 0.4

GKN 45.22 310 Pc 24 50.80 0.3

0.6s 11.00nm 4.8mb

HYB 46.16 294 eP 24 59.00 1.2

e 25 33.00

GBA 46.24 288 Pc 25 57.30 -1.1

0.4s 1.80nm 4.2mb

WMO 52.99 329 iPc 25 50.00 0.3

S.D. = 0.9 on 30 of 31 obs.

& FEB 09, 1989 20h 57m 12.21s

61.020 N 152.386 W

DEPTH = 111.4km

SOUTHERN ALASKA (2)

<AGS-P>.

SPU 0.23 45 iP 57 27.31 0.8

CRP 0.27 24 iP 57 27.90 1.1

eS 57 40.10

RDT 0.45 181 eP 57 28.39 -0.8

eS 57 41.17

NKA 0.63 116 eP 57 31.09 0.8

RED 0.63 198 eP 57 29.77 -0.7

ILIM 0.98 197 iP 57 32.95 -0.8

NNL 1.12 151 eP 57 35.67 0.6

eS 57 53.22

SLKM 1.18 115 iP 57 35.02 -0.8

iS 57 52.78

PWA 1.36 61 eP 57 36.94 -0.9

PMS 1.39 79 iP 57 37.27 -0.9

iS 57 57.43

PDB 1.53 217 iP 57 39.24 -0.6

SVW 1.58 275 iP 57 38.97 -1.5

CNPM 1.61 159 eP 57 40.01 -0.8

PTE 1.65 94 iP 57 39.58 -1.7

PLRM 1.67 69 eP 57 39.77 -1.8

SEW 1.72 121 eP 57 40.74 -1.4

PME 1.73 68 eP 57 40.52 -1.8

GHO 1.83 64 eP 57 41.79 -1.8

KNK 1.94 77 eP 57 42.98 -2.0

PWL 1.98 93 iP 57 43.36 -2.2

iS 58 08.38

SML 2.10 66 eP 57 44.95 -2.2

09d 21h

FBA 101.38 13 ePdiff27 18.90 16.7X
0.9s 0.50nm
FBA 101.38 13 ePdiff27 04.90 2.7X
MBC 115.92 13 ePKP 31 52.00 -1.1
SOD 143.10 344 ePKP 32 42.00 -2.5X
KJF 145.27 340 iPKP 32 46.80 -1.5
BNG 146.41 214 iPKPd 32 52.10 0.3
0.8s 11.00nm
id 33 04.50
SUF 146.85 339 iPKP 32 51.40 0.5
NUR 149.00 337 iPKP 32 57.30 2.9X
0.5s 16.80nm
i 33 11.70
NB2 151.85 349 PKP 33 04.00 5.3X
1.1s 10.00nm
LIC 152.11 168 PKP 33 08.14 7.7X
HFS 152.25 346 ePKP 33 04.70 5.4X
0.9s 9.40nm
KIC 152.29 168 PKP 33 08.32 7.6X
1.1s 29.00nm
TIC 152.52 168 PKP 33 08.92 7.9X
KUK 152.56 178 ePKP 33 09.50 8.4X
S.D. = 1.0 on 15 of 26 obs.

FEB 09, 1989 21h 55m 52.11 ± 0.86s
7.536 N ± 4.3km 126.703 E ± 6.4km
DEPTH = 98.4 ± 7.9 km
4.7mb (13 obs.)

MINDANAO, PHILIPPINE ISLANDS (259)

DAV 1.20 248 ePd- 56 15.10 0.1
MNI 6.33 197 eP 57 23.70 -0.9
PPR 8.19 286 eP 57 50.00 0.0
1.0s 83.00nm 5.4mb
QCP 8.96 322 eP 57 46.00 -14.5X
BAG 10.66 326 eP 58 25.00 1.4
eS 00 28.00
JAY 17.17 125 ePd 59 39.00 -8.4X
GUMO 18.83 70 eP 00 08.50 1.4
QIZ 19.97 307 P 00 19.00 -0.1
KLI 25.04 241 eP 01 24.00 15.2X
SNG 25.87 271 eP 01 17.80 1.3
NNT 27.01 283 eP 01 16.50 -10.5X
NST 27.23 290 eP 01 33.00 4.1X
WB5 28.27 165 eP 01 38.40 0.2
WRA 28.32 165 P 01 41.00 2.3
0.5s 1.90nm 4.0mb
WB2 28.33 165 eP 01 38.40 -0.4
KMI 28.80 310 Pc 01 44.00 0.7
pP 02 02.50 80kmX
CHTO 29.21 295 eP 01 46.50 -0.3
0.8s 4.21nm 4.1mb
pP 02 02.90 69kmX
QIS 30.66 156 iPd 01 57.70 -1.8
MAT 30.72 18 (P) 01 58.00 -1.9
CD2 31.64 320 eP 02 07.80 -0.3
ASPA 31.80 167 eP 02 09.50 0.0
eS 07 34.00
WARB 33.52 180 eP 02 08.00 -16.4X
0.4s 4.00nm

CTA 33.52 145 eP 02 23.00 -1.5
BJI 33.71 345 eP 02 24.50 -1.4
SNY 34.26 356 Pd 02 30.50 -0.1
MEKA 34.86 193 eP 02 35.00 -0.9
MDJ 37.02 3 eP 02 54.20 0.3
FORR 38.19 178 eP 03 03.00 -0.8
COOL 38.57 188 eP 03 07.00 0.0
BAL 39.12 194 eP 03 12.00 0.4
KLB 39.83 192 eP 03 18.00 0.5
GTA 39.87 327 eP 03 17.60 -0.3
MUN 40.55 194 iPd 03 23.80 0.5
NWA0 41.23 192 eP 03 30.00 1.1
STK 41.70 161 eP 03 32.00 -0.7
BRS 42.93 145 iPc 03 41.80 -1.1
i 03 58.00
GUN 43.56 303 P 03 48.60 0.1
0.6s 22.00nm 5.2mb
PKI 43.84 302 P 03 50.20 -0.5
0.6s 8.00nm 4.7mb
KKN 44.02 302 P 03 51.70 -0.4
0.6s 5.00nm 4.5mb
DMN 44.11 302 P 03 52.40 -0.4
0.6s 5.00nm 4.5mb
GKN 44.63 303 P 03 56.40 -0.5
0.6s 8.00nm 4.7mb
BWA 46.52 155 eP 04 13.10 1.6
CAN 47.53 155 eP 04 19.70 0.2

HYB 47.91 287 eP 04 22.00 -0.7
GBA 48.74 281 P 04 30.00 1.0
0.4s 3.30nm 4.6mb
WMO 49.64 323 P 04 36.00 0.3
NDI 51.09 301 eP 04 46.00 -0.8
QUE 60.16 300 eP 05 51.20 -1.0
MHI 67.23 306 iPc 06 38.40 0.1
TAB 77.83 307 eP 07 42.00 1.3
INK 86.66 22 eP 08 26.00 0.4
pP 08 42.00 56kmX
KJF 87.17 334 eP 08 27.00 -1.1
0.6s 9.10nm 5.0mb
SUF 88.17 333 iP 08 32.30 -0.6
0.6s 2.50nm 4.4mb
MBC 88.27 13 eP 08 34.00 0.8
0.7s 9.00nm 4.9mb
NUR 89.38 331 iP 08 38.50 -0.2
SLL 94.69 333 eP 09 02.40 -0.8
0.8s 11.50nm 5.4mb
YKA 96.06 24 P 09 11.10 1.6
KIC 129.64 285 PKP 14 53.10 0.8
TIC 129.83 285 PKP 14 53.20 0.5
LIC 129.95 285 PKP 14 53.40 0.5
CNCB 162.95 124 ePKP 15 53.00 7.8X
LPB 163.00 123 ePKP 15 52.00 7.0X
ZOBO 163.11 122 ePKP 16 00.00 14.7X
S.D. = 0.9 on 54 of 63 obs.

* FEB 09, 1989 22h 31m 24.40 ± 0.75s
38.053 N ± 9.6km 106.309 E ± 7.8km
DEPTH = 10.0km (geophysicist)
3.2mb (1 obs.)
NORTHERN CHINA (323)
ML 4.0 (BJI).

LZH 2.78 226 Pn 32 15.00 5.0X
Pg 32 18.00
BTO 3.84 47 Pn 32 25.00 0.1
Pg 32 37.40
Sg 33 23.40
XAN 4.53 151 Pnc 32 35.50 0.9
Pg 32 48.70
Sg 33 44.00
TIY 4.86 92 ePn 32 38.50 -0.8
Pg 32 53.30
Sn 33 35.20
Sg 33 52.30
HHC 4.93 54 Pn 32 40.30 -0.1
Pg 32 54.60
Sn 33 36.80
Sg 33 52.80
GTA 5.26 287 Pn 32 46.50 1.5
CD2 7.43 197 ePg 33 48.20 32.7X
WHN 10.01 136 eP 33 52.00 0.7
GUN 19.86 245 P 35 57.00 -1.9
CHTO 20.22 201 e(P) 36 02.00 -0.3
0.7s 0.95nm 3.2mb
INK 65.02 21 eP 42 11.50 5.1X
S.D. = 1.2 on 8 of 11 obs.

FEB 09, 1989 22h 49m 02.11 ± 0.41s
22.611 S ± 3.5km 66.086 W ± 5.9km
DEPTH = 247.3 ± 4.5 km
5.2mb (38 obs.)
JUJUY PROVINCE, ARGENTINA (128)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 22C
Centroid Location:
Origin Time 22:49: 9.7 0.5
Lat 22.23S 0.06 Lon 66.00W 0.07
Dep 269.4 2.7 Half-duration 2.0
Moment Tensor: Scale 10**17 Nm
Mrr=0.51 0.06 Mtt=0.07 0.09
Mff=-0.58 0.09 Mrt=0.07 0.09
Mrf=-1.39 0.07 Mtf=0.38 0.09
Principal Axes:
T Vol=1.47 Plg=54 Azm=101
N 0.13 12 354
P -1.60 33 256
Best Double Couple: Mo=1.5*10**17
NP1:Strike=307 Dip=16 Slip= 42
NP2: 176 79 102

HJA 0.87 134 iPc 49 39.50 3.1
CCH 5.20 359 iPc 50 21.00 -0.2
CNCB 6.04 342 iPc 50 33.10 1.2

LPB 6.34 342 Pc 50 37.00 1.5
1.0s 740.00nm 5.6mb
S 51 49.00
ZOBO 6.59 343 iPc 50 38.80 -0.1
20s 1.43um
S 51 42.00
LR 52 00.00
ARE 7.96 319 iPc 50 53.60 -2.3
CFA 9.16 192 ePd 51 09.50 -1.6
ZON 9.19 194 eP 51 10.00 -1.5
eS 52 47.00
JACH 10.80 201 ePc 51 32.40 0.6
PEL 11.25 200 iPc 51 37.00 -0.4
FCH 11.30 198 eP 51 39.50 1.1
TACH 11.80 200 ePc 51 44.00 -0.3
LCCH 11.85 203 iP 51 44.00 -0.9
CHCH 11.97 199 ePc 51 47.00 0.5
VBA 15.79 168 ePd 52 30.50 -2.9
BRAS 18.94 94 iPd 52 55.80 -11.2X
ITA 19.76 93 eP 53 15.20 -0.2
e 53 23.40
e 53 49.90
BMA 20.24 94 ePd 53 20.70 0.8
ATB 23.44 37 e(P) 53 48.00 -2.9
VVO 64.12 333 eP 59 10.90 -1.2
RLO 64.54 334 eP 59 12.80 -2.0
LNO 64.64 334 eP 59 13.90 -1.4
TUL 64.64 334 e(P) 59 14.80 -0.6
1.2s 14.50nm 4.6mb
SIO 64.71 333 e(P) 59 14.70 -1.2
LIC 66.21 72 P 59 23.68 -2.2
TIC 66.41 72 P 59 25.08 -2.1
KIC 66.52 72 P 59 25.24 -2.6
0.4s 24.00nm 5.3mb
SPA 67.53 180 e(P) 59 35.00 1.4
0.8s 41.67nm 5.2mb
GAC 68.52 353 eP 59 39.00 -0.5
ALQ 68.87 325 eP 59 41.70 -0.5
0.9s 8.40nm 4.5mb
eP 00 44.00 270kmX
LEGH 70.24 75 eP 59 49.50 -1.2
KUK 70.31 74 eP 59 49.00 -2.1
KOGH 70.38 74 eP 59 50.00 -1.6
SHGH 70.49 75 eP 59 52.00 -0.2
CER 74.24 120 iPd 00 22.00 8.0X
SYO 74.51 159 ePc 00 14.80 0.0
POF 75.98 116 iPc 00 24.00 0.3
BW06 76.40 329 eP 00 26.10 0.1
pP 01 29.50 271kmX
SCH 77.11 360 eP 00 28.00 -1.3
0.7s 29.00nm 5.1mb
TNP 77.13 321 eP 00 31.00 0.9
pP 01 34.00 268kmX
TIO 77.55 49 iP 00 32.60 0.1
i 01 34.00
KVN 78.29 321 iP 00 36.10 -0.3
pP 01 39.80 270kmX
AVE 78.84 47 iP 00 40.00 0.7
GRM 80.03 122 iPc 00 46.00 0.2
1.0s 50.00nm 5.2mb
LRM 80.06 329 eP 00 46.70 0.9
e 01 50.40
FRS 80.27 118 iPc 00 47.00 0.0
1.3s 57.69nm 5.1mb
IFR 80.52 48 iPd 00 49.00 0.6
EVAL 81.83 44 e(P) 00 55.00 0.2
CGY 82.35 115 iPc 00 57.00 -0.9
0.5s 19.01nm 5.1mb
MAW 82.50 163 eP 00 59.00 1.1
SEK 82.66 117 iPd 01 00.40 0.7
0.5s 14.08nm 4.9mb
SES 82.83 333 eP 01 00.00 0.2
FFC 82.94 340 eP 01 00.50 0.3
1.0s 20.00nm 4.8mb
PRY 83.05 116 iPc 01 01.00 -0.7
1.1s 29.73nm 4.9mb
TAF 83.11 48 iP 01 02.00 0.4
ATEJ 83.21 45 eP 01 02.70 0.6
ALOJ 83.26 45 eP 01 02.70 0.3
AAPN 83.36 45 eP 01 03.50 0.7
ACHM 83.44 45 eP 01 03.40 0.2
APHE 83.44 46 eP 01 03.70 0.4
ASMO 83.64 45 eP 01 05.00 0.8
EPLA 83.72 42 e(P) 01 05.00 0.5
BPI 83.79 116 iPd 01 04.00 -1.4
1.2s 84.38nm 5.4mb
EBAN 84.07 45 e(P) 01 06.40 0.2

09d 23h

| | | | | | | | | | | | | | | | | | | | | |
|------|--------|-----|----------|----|-------|--------|------|--------|-----|------|----|-------|-------|-------|-------|------|----------|---------|--------|-------|
| SLR | 84.17 | 115 | iPc | 01 | 07.30 | 0.0 | KLI | 151.29 | 161 | ePKP | 08 | 29.00 | 7.0X | KOGH | 33.33 | 295 | eP | 55 | 53.50 | 0.2 |
| | 1.2s | | 70.31nm | | | 5.4mb | GKN | 153.03 | 72 | PKP | 08 | 25.20 | 0.9 | KUK | 33.49 | 295 | eP | 55 | 54.50 | -0.1 |
| TOL | 84.88 | 43 | iPd | 01 | 14.00 | 3.8X | DMN | 153.48 | 73 | PKP | 08 | 25.90 | 0.8 | KIC | 37.52 | 292 | Pd | 56 | 28.60 | -0.3 |
| | 1.5s | | 555.56nm | | | 6.2mb | KKN | 153.61 | 73 | PKP | 08 | 25.90 | 0.7 | | 0.9s | | 132.00nm | | | 5.8mb |
| EVIA | 85.16 | 45 | e(P) | 01 | 12.00 | 0.2 | PKI | 153.75 | 73 | PKP | 08 | 26.20 | 0.6 | LIC | 37.73 | 292 | Pd | 56 | 30.28 | -0.4 |
| GUD | 85.25 | 42 | e(P) | 01 | 12.00 | -0.2 | GUN | 154.13 | 72 | PKP | 08 | 26.70 | 0.6 | TIC | 37.89 | 292 | Pd | 56 | 31.66 | -0.3 |
| FRB | 86.09 | 359 | eP | 01 | 15.00 | -0.5 | GTA | 159.39 | 32 | PKP | 08 | 33.20 | 1.2 | | 0.6s | | 116.00nm | | | 5.9mb |
| BUL | 86.58 | 110 | iPd | 01 | 18.00 | -0.4 | HHC | 161.71 | 6 | ePKP | 08 | 36.50 | 2.2X | PRNI | 38.98 | 7 | iP | 56 | 42.30 | 1.3 |
| | 1.0s | | 41.00nm | | | 5.2mb | BJI | 162.52 | 354 | ePKP | 08 | 36.50 | 1.6 | JVI | 40.59 | 7 | iP | 56 | 55.70 | 1.5 |
| KMZ | 86.66 | 103 | iPd | 01 | 20.40 | 0.8 | CD2 | 167.73 | 46 | ePKP | 08 | 41.60 | 1.8 | ADI | 41.71 | 7 | eP | 57 | 05.10 | 1.7 |
| ETOR | 86.66 | 43 | e(P) | 01 | 20.00 | 1.0 | | | | | | | BCK | 45.77 | 1 | eP | 57 | 36.90 | 0.7 | |
| BCAO | 86.73 | 84 | eP | 01 | 19.90 | 0.0 | | | | | | | BBTK | 48.22 | 3 | iPd | 57 | 56.00 | 0.5 | |
| | 1.3s | | 24.92nm | | | 4.9mb | | | | | | | GIB | 48.59 | 343 | P | 58 | 05.80 | 7.4X | |
| | | | pP | 02 | 26.90 | 280kmX | | | | | | | TDS | 49.57 | 346 | P | 58 | 06.20 | 0.4 | |
| BNG | 86.74 | 84 | iPd | 01 | 20.20 | 0.3 | | | | | | | VAY | 50.07 | 353 | iP | 58 | 10.00 | 0.4 | |
| | 1.5s | | 50.00nm | | | 5.1mb | | | | | | | | | | i | 58 | 21.00 | 38km | |
| | | | id | 04 | 42.70 | | | | | | | | OHR | 50.11 | 351 | eP | 58 | 07.50 | -2.5 | |
| EPF | 89.37 | 42 | eP | 01 | 32.20 | 0.5 | | | | | | | SKO | 50.86 | 352 | iP | 58 | 15.50 | -0.1 | |
| | 1.2s | | 32.70nm | | | 5.1mb | | | | | | | | | | i | 58 | 25.20 | 32km | |
| LFF | 90.62 | 41 | eP | 01 | 37.50 | 0.1 | ORV | 0.62 | 245 | iPc | 22 | 20.60 | 0.4 | KOD | 50.95 | 69 | eP | 58 | 24.10 | 7.0X |
| | 1.2s | | 49.90nm | | | 5.3mb | | | | | | | SDI | 52.12 | 345 | P | 58 | 25.00 | -0.3 | |
| LPO | 90.76 | 41 | eP | 01 | 38.30 | 0.3 | MIN | 0.82 | 309 | e(P) | 22 | 23.70 | -0.5 | GBA | 52.13 | 65 | P | 58 | 31.00 | 5.4X |
| | 1.3s | | 36.10nm | | | 5.1mb | | | | | | | | | | e | 59 | 36.00 | 305kmX | |
| MFF | 90.98 | 39 | eP | 01 | 38.80 | -0.2 | LTCM | 1.11 | 291 | eP | 22 | 28.80 | -0.1 | RDP | 52.47 | 344 | P | 58 | 28.00 | 0.1 |
| | 1.2s | | 73.70nm | | | 5.5mb | WDC | 1.55 | 300 | eP | 22 | 35.40 | -0.6 | QUE | 52.48 | 41 | iP | 58 | 29.50 | 1.2 |
| LPF | 91.24 | 37 | eP | 01 | 39.70 | -0.4 | | | | | | | | AZI | 52.49 | 345 | P | 58 | 28.20 | 0.3 |
| | 1.1s | | 36.10nm | | | 5.2mb | LBFM | 1.74 | 331 | eP | 22 | 40.00 | 1.0 | MHI | 52.61 | 30 | eP | 58 | 29.00 | 0.0 |
| PTZ | 91.28 | 106 | iP | 01 | 43.00 | 1.8 | CMB | 1.81 | 170 | eP | 22 | 40.20 | 0.3 | TAF | 52.82 | 327 | iPd | 58 | 32.00 | 1.4 |
| RJF | 91.28 | 41 | eP | 01 | 40.30 | -0.1 | | | | | | | | | | i | 59 | 43.00 | 337kmX | |
| | 1.2s | | 23.80nm | | | 5.0mb | KVN | 2.21 | 110 | eP | 22 | 45.50 | -0.2 | | | | | | | |
| CAF | 91.42 | 41 | eP | 01 | 41.30 | 0.2 | ARN | 2.54 | 194 | eP | 22 | 50.00 | -0.3 | TIO | 52.96 | 320 | iPd | 58 | 32.40 | 0.6 |
| | 1.2s | | 17.80nm | | | 4.9mb | | | | | | | MNS | 53.06 | 344 | P | 58 | 31.60 | -0.6 | |
| GRR | 91.54 | 37 | eP | 01 | 41.10 | -0.4 | | | | | | | IFR | 53.42 | 323 | iP | 58 | 36.50 | 1.4 | |
| LSF | 91.78 | 40 | eP | 01 | 42.50 | -0.2 | | | | | | | BEO | 53.79 | 352 | eP | 58 | 37.50 | 0.1 | |
| FLN | 91.95 | 37 | eP | 01 | 42.90 | -0.5 | | | | | | | MLR | 53.90 | 357 | ePc | 58 | 38.50 | 0.1 | |
| | 1.1s | | 36.10nm | | | 5.3mb | | | | | | | VRI | 54.24 | 357 | ePc | 58 | 41.00 | 0.3 | |
| LDF | 92.06 | 37 | eP | 01 | 43.50 | -0.4 | | | | | | | CVF | 54.36 | 341 | eP | 58 | 40.80 | -0.9 | |
| | 1.2s | | 49.90nm | | | 5.4mb | | | | | | | | | | 1.0s | | 17.60nm | 5.0mb | |
| TCF | 92.20 | 40 | eP | 01 | 44.30 | -0.4 | | | | | | | HYB | 54.61 | 62 | eP | 58 | 43.00 | -1.0 | |
| MAF | 92.38 | 40 | eP | 01 | 45.50 | 0.0 | PTZ | 5.85 | 166 | iPnd | 50 | 42.90 | -0.1 | AVE | 54.64 | 322 | iP | 58 | 44.50 | 0.6 |
| | 1.3s | | 30.30nm | | | 5.2mb | | | | | | | PII | 54.90 | 343 | P | 58 | 45.20 | -0.4 | |
| BGF | 92.72 | 40 | eP | 01 | 46.90 | -0.1 | KMZ | 6.26 | 219 | iPnc | 50 | 48.70 | -0.1 | APHE | 55.10 | 327 | iPc | 58 | 48.50 | 1.1 |
| | 1.1s | | 19.50nm | | | 5.1mb | | | | | | | CRT | 55.23 | 328 | eP | 58 | 50.50 | 2.3 | |
| YKC | 93.06 | 340 | eP | 01 | 48.50 | 0.3 | LWI | 6.35 | 351 | iP | 50 | 47.20 | -2.9X | ATEJ | 55.25 | 327 | iP | 58 | 49.50 | 1.0 |
| | 0.7s | | 13.00nm | | | 5.1mb | | | | | | | AFC | 55.25 | 328 | e(P) | 58 | 48.40 | -0.1 | |
| YKA | 93.12 | 340 | P | 01 | 48.90 | 0.4 | SONG | 7.58 | 158 | iPnd | 51 | 04.00 | -3.2X | ACHM | 55.29 | 327 | iP | 58 | 50.00 | 1.3 |
| AVF | 93.14 | 40 | eP | 01 | 48.70 | -0.2 | | | | | | | VBY | 55.38 | 348 | eP | 58 | 49.30 | 0.2 | |
| | 1.5s | | 38.60nm | | | 5.2mb | | | | | | ASMO | 55.43 | 328 | iPc | 58 | 50.70 | 0.9 | | |
| SMF | 93.36 | 40 | eP | 01 | 50.00 | 0.0 | CLK | 8.69 | 145 | iPn | 51 | 20.20 | -2.4 | ALOJ | 55.44 | 327 | iP | 58 | 50.50 | 0.6 |
| SSF | 93.36 | 40 | eP | 01 | 49.40 | -0.6 | | | | | | | AAPN | 55.60 | 327 | iPd | 58 | 51.20 | 0.3 | |
| LRG | 93.38 | 44 | eP | 01 | 50.60 | 0.5 | | | | | | | PTJ | 55.61 | 348 | eP | 58 | 50.60 | -0.3 | |
| | 1.2s | | 35.70nm | | | 5.3mb | NAI | 10.02 | 44 | iPc | 51 | 37.00 | -4.0X | EJIF | 55.71 | 326 | e(P) | 58 | 51.40 | -0.2 |
| LMR | 93.42 | 44 | eP | 01 | 50.60 | 0.3 | | | | | | | | EVIA | 55.76 | 330 | e(P) | 58 | 52.70 | 0.6 |
| | 1.5s | | 45.90nm | | | 5.3mb | | | | | | | CEY | 55.78 | 347 | ePd | 58 | 52.00 | 0.0 | |
| LBF | 93.61 | 40 | eP | 01 | 50.50 | -0.7 | NPA | 11.28 | 126 | iPc | 51 | 53.00 | -5.1X | LMR | 55.83 | 340 | eP | 58 | 51.80 | -0.5 |
| FRF | 93.62 | 44 | eP | 01 | 51.40 | 0.2 | | | | | | | | | | 1.1s | | 21.40nm | 5.1mb | |
| | 1.5s | | 56.40nm | | | 5.4mb | | | | | | | EPRU | 55.95 | 326 | e(P) | 58 | 53.20 | -0.2 | |
| LOR | 93.68 | 40 | eP | 01 | 50.90 | -0.5 | BUL | 11.59 | 186 | iPnc | 51 | 58.10 | -4.3X | FRF | 55.98 | 340 | eP | 58 | 52.90 | -0.5 |
| | 1.2s | | 23.80nm | | | 5.2mb | | | | | | | | | | 1.2s | | 20.20nm | 5.0mb | |
| CALN | 93.86 | 44 | P | 01 | 53.41 | 0.9 | | | | | | | SBF | 55.98 | 341 | eP | 58 | 52.70 | -0.9 | |
| MYIF | 94.10 | 44 | P | 01 | 54.45 | 0.8 | | | | | | | | | | 1.0s | | 40.00nm | 5.4mb | |
| AURF | 94.21 | 44 | P | 01 | 54.49 | 0.4 | | | | | | | LRG | 55.98 | 340 | eP | 58 | 53.10 | -0.3 | |
| TOUF | 94.21 | 44 | P | 01 | 55.01 | 0.8 | | | | | | | | | | 1.1s | | 24.40nm | 5.1mb | |
| SBF | 94.26 | 44 | eP | 01 | 54.60 | 0.3 | BCAO | 17.13 | 318 | ePn | 53 | 08.30 | -6.3X | LJU | 56.05 | 347 | eP | 58 | 53.70 | -0.2 |
| | 1.3s | | 50.50nm | | | 5.5mb | SLR | 17.16 | 185 | eP | 53 | 10.00 | -5.1X | EBAN | 56.06 | 328 | e(P) | 58 | 53.50 | -0.6 |
| AUTN | 94.32 | 44 | P | 01 | 55.25 | 0.5 | | | | | | | VOY | 56.18 | 347 | ePd | 58 | 54.50 | -0.5 | |
| SAOF | 94.40 | 44 | P | 01 | 55.38 | 0.5 | | | | | | | CKI | 56.21 | 342 | P | 58 | 54.00 | -1.1 | |
| LPG | 94.59 | 42 | eP | 01 | 56.80 | 0.8 | BPI | 17.61 | 185 | eP | 53 | 13.00 | -7.8X | EHOR | 56.58 | 327 | e(P) | 58 | 57.00 | -0.8 |
| | 1.3s | | 32.40nm | | | 5.4mb | | | | | | | RBL | 56.64 | 347 | Pd | 58 | 57.50 | -0.8 | |
| CVF | 94.61 | 46 | P | 01 | 55.88 | 0.0 | CGY | 18.01 | 190 | eP | 53 | 25.50 | 0.0 | CTI | 56.74 | 345 | P | 58 | 59.00 | 0.0 |
| HAU | 95.51 | 40 | eP | 01 | 59.70 | -0.1 | | | | | | | FVI | 56.97 | 346 | P | 59 | 08.00 | 7.6X | |
| BSF | 95.69 | 40 | eP | 02 | 00.30 | -0.5 | PRY | 18.42 | 187 | eP | 53 | 27.30 | -3.4X | MDI | 57.01 | 343 | P | 58 | 59.00 | -1.8 |
| CDF | 96.24 | 40 | eP | 02 | 02.80 | -0.4 | | | | | | | SRO | 57.03 | 351 | eP | 59 | 01.20 | 0.3 | |
| GRF | 99.14 | 40 | eP | 02 | 17.00 | 0.8 | BFS | 18.48 | 189 | eP | 53 | 30.50 | -1.0 | ETOR | 57.24 | 332 | e(P) | 59 | 03.00 | 0.4 |
| | 1.3s | | 19.00nm | | | 5.4mb | | | | | | | BNI | 57.29 | 341 | P | 59 | 03.50 | 0.5 | |
| MHI | 131.27 | 61 | iPKPd | 07 | 47.20 | 0.6 | SEK | 19.78 | 186 | iPd | 53 | 43.60 | -3.0X | KBA | 57.29 | 347 | iPd | 59 | 02.70 | -0.3 |
| | | | i | 10 | 50.00 | | | | | | | | | | | 1.0s | | 16.90nm | 5.0mb | |
| WB2 | 133.23 | 207 | iPd | 04 | 58.90 | 10.4X | AVY | 20.19 | 123 | iPc | 53 | 51.12 | 0.1 | | | | | | | |
| WB5 | 133.28 | 207 | iPd | 04 | 58.90 | 10.2X | FRS | 21.51 | 191 | iPc | 54 | 05.50 | 1.3 | TOL | 57.49 | 329 | eP | 59 | 05.00 | 0.7 |
| QUE | 137.50 | 70 | ePKP | 07 | 49.00 | -9.8X | | | | | | | ZST | 57.61 | 350 | eP | 59 | 04.50 | -0.4 | |
| KOD | 143.05 | 103 | ePKP | 08 | 07.00 | -2.2X | PDF | 22.71 | 203 | iPc | 54 | 17.00 | 0.9 | | | | | | | |
| GBA | 144.27 | 98 | PKP | 08 | 08.00 | -2.8X | | | | | | | | | | e | 01 | 23.50 | 33km | |
| HYB | 146.43 | 92 | ePKPd | 08 | 15.00 | 0.6 | GRM | 24.83 | 187 | eP | 54 | 53.50 | 16.8X | LPG | 57.66 | 341 | e | | | |

| | | | | | | | | | | | | |
|------|-------|----------|----------------|--------------------------------|------------------------|----------------------|----------------|--------------------------|----------------------|---------|----------|------|
| | 1 1s | 29.30nm | 5.3mb | | 1.5s | 0.05nm | 2.3mb X | GSO | 1.97 | 235 P | 04 56.93 | 0.0 |
| SPC | 58.10 | 353 iP | 59 09.10 0.5 | HHC | 89.33 | 49 eP | 02 12.60 2.0 | | | eLg | 05 24.49 | |
| GUD | 58.12 | 330 e(P) | 59 08.50 -0.3 | BJI | 92.64 | 50 P | 02 24.00 -1.7 | HTO | 2.58 | 252 Pc | 05 04.75 | -0.9 |
| EPLA | 58.66 | 328 e(P) | 59 12.70 0.2 | YKA | 120.29 | 342 PKP | 08 06.00 1.2 | | | eLg | 05 43.57 | |
| CAF | 58.82 | 337 eP | 59 13.70 0.2 | MEO | 126.14 | 307 ePKP | 08 18.00 0.9 | MNO | 2.68 | 282 Pd | 05 06.28 | -0.9 |
| | 1.2s | 22.00nm | 5.2mb | | 1.0s | 14.80nm | | | | eLg | 05 49.43 | |
| LPO | 58.96 | 336 eP | 59 14.50 0.1 | SES | 127.20 | 330 ePKP | 08 19.00 0.4 | KLN | 3.42 | 200 Pc | 05 16.37 | -1.2 |
| | 1.2s | 44.00nm | 5.5mb | | S.D. = 0.9 | on 127 of 144 obs. | | EBN | 3.52 | 224 P | 05 18.24 | -0.7 |
| KRA | 58.99 | 353 eP | 59 13.30 -1.3 | | | | | CBM | 3.89 | 218 eP | 05 22.50 | -1.7 |
| | 0.9s | 27.00nm | 5.4mb | | FEB 10, 1989 | 00h 36m 49.35± 0.41s | | LMN | 4.22 | 181 P | 05 26.32 | -2.6 |
| KHC | 59.18 | 348 iPd | 59 15.70 -0.3 | | 26.019 N ± 5.8km | 99.523 E ± 5.6km | | LQO | 4.47 | 234 P | 05 31.14 | -1.3 |
| | 0.9s | 32.00nm | 5.5mb | | DEPTH = 10.0km | (geophysicist) | | SCH | 4.93 | 346 eP | 05 36.30 | -2.7 |
| | | e | 59 26.20 35km | | 4.4mb (5 obs.) | | | MIM | 5.66 | 213 eP | 05 46.30 | -2.9 |
| LFF | 59.35 | 336 eP | 59 17.20 0.1 | | YUNNAN PROVINCE, CHINA | (318) | | EMM | 5.66 | 201 eP | 05 47.00 | -2.3 |
| | 0.8s | 21.40nm | 5.3mb | | ML 4.3 (BJI). | | | BNH | 7.08 | 222 eP | 06 06.00 | -3.2 |
| RJF | 59.35 | 337 eP | 59 17.10 0.0 | KMI | 3.04 | 106 Pnc | 37 40.00 1.4 | STJ | 8.26 | 103 eP | 06 26.00 | 0.4 |
| SMF | 59.64 | 340 eP | 59 18.90 -0.2 | | | Pg | 37 45.00 | GAC | 8.48 | 243 ePc | 06 23.70 | -5.0 |
| | 1.1s | 25.30nm | 5.3mb | | | Sn | 38 15.00 | RSNY | 8.68 | 234 eP | 06 26.80 | -4.8 |
| BSF | 59.73 | 342 eP | 59 19.30 -0.6 | | | Sg | 38 22.00 | PTN | 8.91 | 236 eP | 06 30.00 | -4.6 |
| | 1.0s | 25.60nm | 5.3mb | CD2 | 6.13 | 36 ePn | 38 24.60 2.3 | PNJ | 11.32 | 220 eP | 07 00.00 | -7.7 |
| MAF | 59.73 | 338 eP | 59 20.00 0.2 | GYA | 6.43 | 85 Pn | 38 25.00 -0.7 | FRB | 13.88 | 353 eP | 07 34.00 | -7.8 |
| | 1.2s | 38.60nm | 5.4mb | | | Pg | 38 45.20 | BLA | 17.14 | 227 eP | 08 20.00 | -4.0 |
| PRU | 59.80 | 349 ePd | 59 18.50 -1.7 | | | Sn | 39 31.40 | RSON | 18.46 | 284 eP | 08 35.70 | -4.6 |
| LBF | 59.89 | 340 eP | 59 20.10 -0.8 | CHG | 7.19 | 184 iPn | 38 37.90 0.8 | FFC | 23.06 | 296 eP | 09 27.00 | -2.0 |
| BGF | 59.91 | 339 eP | 59 20.90 -0.1 | | | iPg | 39 04.60 | YKA | 29.57 | 314 P | 10 33.70 | 4.2 |
| | 1.1s | 14.60nm | 5.0mb | CHTO | 7.19 | 184 iPn | 38 37.20 0.1 | INK | 37.23 | 325 eP | 11 40.00 | 4.4 |
| TCF | 59.92 | 338 eP | 59 21.40 0.3 | | | iPg | 39 03.60 | | 23 obs. associated | | | |
| | 1.5s | 64.70nm | 5.5mb | LSA | 8.27 | 298 Pc | 38 55.00 2.4 | & FEB 10, 1989 | 01h 17m 25.39s | | | |
| AVF | 59.93 | 339 eP | 59 20.90 -0.2 | LOE | 8.81 | 166 eP | 39 01.00 1.3 | 59.282 N | 152.005 W | | | |
| | 1.1s | 25.30nm | 5.3mb | NST | 10.31 | 177 eP | 39 20.50 0.1 | DEPTH = 54.2km | | | | |
| HAU | 60.02 | 342 eP | 59 21.50 -0.2 | LZH | 10.70 | 19 eP | 39 28.00 2.2 | SOUTHERN ALASKA | (2) | | | |
| | 1.1s | 31.20nm | 5.4mb | | | 2.0s | 0.07nm | <AGS-P> | | | | |
| CDF | 60.10 | 343 eP | 59 21.50 -0.9 | XAN | 11.41 | 43 P | 39 33.00 -2.4 | | | | | |
| | 0.8s | 18.80nm | 5.3mb | N | 12s | 2.60um | | HOM | 0.42 | 26 eP | 17 35.91 | -0.2 |
| SSF | 60.11 | 340 eP | 59 21.80 -0.6 | E | 13s | 1.90um | | | | eS | 17 45.07 | |
| LSF | 60.14 | 338 eP | 59 22.50 0.0 | | | S | 41 40.00 | CNPM | 0.46 | 58 iP | 17 36.00 | -0.6 |
| LOR | 60.17 | 340 eP | 59 22.10 -0.7 | QIZ | 11.80 | 124 eP | 39 38.20 -2.5 | | | iS | 17 44.60 | |
| | 1.1s | 24.40nm | 5.2mb | GUN | 12.32 | 282 P | 39 47.00 -1.0 | AUI | 0.73 | 275 eP | 17 39.31 | -0.5 |
| GRF | 60.24 | 346 eP | 59 23.10 -0.1 | PKI | 12.70 | 280 P | 39 51.20 -2.0 | | | eS | 17 49.71 | |
| | 1.1s | 51.00nm | 5.6mb | KKN | 12.83 | 281 P | 39 53.40 -1.4 | AUL | 0.74 | 278 eP | 17 39.51 | -0.4 |
| KSP | 60.30 | 350 eP | 59 22.00 -1.6 | DMN | 12.97 | 280 P | 39 55.00 -1.7 | | | eS | 17 51.10 | |
| BRG | 60.76 | 349 eP | 59 25.20 -1.5 | | | 0.6s | 22.00nm | 5.5mb X | 0.75 | 49 eP | 17 39.45 | -0.6 |
| | 1.0s | 12.00nm | 5.0mb | GKN | 13.42 | 282 P | 40 00.40 -2.1 | | | eS | 17 51.07 | |
| | | e | 59 39.00 50kmX | WHN | 13.82 | 68 eP | 40 04.00 -3.6X | NNL | 0.84 | 25 iP | 17 41.68 | 0.4 |
| MOX | 61.04 | 347 eP | 59 28.50 -0.1 | TIY | 15.99 | 40 iPc | 40 40.00 4.1X | | | iS | 17 53.59 | |
| | 1.1s | 29.00nm | 5.3mb | Z | 10s | 1.27um | | ILIM | 0.94 | 329 iP | 17 41.81 | -0.8 |
| | | e | 59 39.00 35km | E | 10s | 1.10um | | | | iS | 17 54.79 | |
| CLL | 61.36 | 348 eP | 59 30.00 -0.8 | BTO | 16.96 | 28 eP | 40 47.00 -1.3 | RED | 1.20 | 342 eP | 17 45.43 | -0.9 |
| | 1.3s | 20.00nm | 5.1mb | HHC | 17.85 | 31 eP | 40 58.10 -1.4 | | | eS | 18 01.80 | |
| | | e | 59 41.00 37km | BJI | 19.71 | 41 eP | 41 22.00 0.1 | RDT | 1.31 | 351 eP | 17 46.90 | -0.9 |
| WLF | 61.56 | 343 Pc | 59 32.60 0.5 | | N | 12s | 0.90um | | | iS | 18 04.36 | |
| | | e | 59 43.30 36km | | E | 12s | 0.70um | NKA | 1.52 | 14 eP | 17 52.05 | 1.5 |
| DOU | 62.41 | 342 Pc | 59 37.80 0.0 | NDI | 19.99 | 283 eP | 41 26.00 1.1 | SLKM | 1.52 | 35 iP | 17 50.15 | -0.5 |
| | 1.0s | 27.80nm | 5.3mb | WMQ | 20.20 | 335 iPc | 41 28.10 1.1 | SEW | 1.54 | 56 eP | 17 49.75 | -1.0 |
| ENN | 62.61 | 343 eP | 59 39.00 -0.1 | PSI | 23.20 | 182 ePd | 41 59.60 2.3 | | | eS | 18 10.07 | |
| | 1.0s | 24.00nm | 5.3mb | GBA | 24.13 | 243 Pc | 42 07.10 0.8 | KDC | 1.56 | 190 eP | 17 49.77 | -1.3 |
| SNF | 62.87 | 342 Pd | 59 41.10 0.3 | | 0.8s | 3.10nm | 4.0mb | | | eS | 18 09.06 | |
| WTS | 63.46 | 344 eP | 59 45.00 0.3 | MHI | 35.54 | 297 iPc | 43 50.00 1.3 | SPU | 1.91 | 359 eP | 17 55.73 | -0.3 |
| | 1.0s | 16.00nm | 5.1mb | WB5 | 56.80 | 140 eP | 46 35.10 -1.2 | CRP | 1.99 | 358 eP | 17 57.46 | 0.1 |
| | | e | 59 56.00 36km | WRA | 56.84 | 140 Pc | 46 35.30 -1.3 | | | eS | 18 24.75 | |
| NUR | 68.96 | 357 iP | 00 18.60 -0.9 | | 0.7s | 6.30nm | 4.8mb | PTE | 2.18 | 42 eP | 17 58.92 | -0.9 |
| EKA | 69.34 | 341 Pc | 00 22.50 0.4 | WB2 | 56.84 | 140 eP | 46 35.10 -1.5 | PMS | 2.32 | 31 iP | 18 01.53 | -0.3 |
| | 1.1s | 22.00nm | 5.1mb | KJF | 58.99 | 331 eP | 46 57.00 5.9X | | | eS | 18 28.96 | |
| HFS | 69.66 | 351 eP | 00 22.50 -1.4 | ASPA | 59.55 | 143 iPc | 46 56.30 0.8 | PWL | 2.43 | 48 eP | 18 01.93 | -1.4 |
| | 1.0s | 13.40nm | 4.9mb | SUF | 59.61 | 329 eP | 46 56.00 0.5 | | | eS | 18 29.53 | |
| NB2 | 70.90 | 351 P | 00 31.40 -0.1 | NUR | 60.31 | 327 eP | 47 12.00 11.7X | SVW | 2.57 | 317 eP | 18 03.91 | -1.5 |
| | 1.2s | 29.80nm | 5.2mb | SLL | 65.89 | 327 eP | 47 36.80 -0.4 | KNK | 2.77 | 38 eP | 18 06.80 | -1.5 |
| SUF | 71.11 | 358 iP | 00 32.30 -0.3 | | 0.5s | 0.70nm | 4.1mb | | | eS | 18 38.05 | |
| | 0.7s | 7.50nm | 4.8mb | NB2 | 66.79 | 328 P | 47 42.60 -0.4 | PME | 2.78 | 31 eP | 18 07.10 | -1.2 |
| BMA | 72.03 | 249 ePc | 00 40.40 1.3 | | 0.8s | 2.10nm | 4.4mb | GHO | 2.93 | 30 eP | 18 09.31 | -1.3 |
| | | epP | 00 50.90 34km | LPG | 73.77 | 313 eP | 48 37.20 11.2X | SML | 3.12 | 34 eP | 18 11.76 | -1.5 |
| ITA | 72.55 | 249 eP | 00 43.20 0.7 | | 0.8s | 6.70nm | | VZW | 3.26 | 54 eP | 18 12.68 | -2.5 |
| KJF | 72.56 | 359 iP | 00 41.00 -0.2 | LRG | 74.76 | 311 eP | 48 32.20 0.8 | SGAM | 3.64 | 67 eP | 18 18.05 | -2.5 |
| | 0.8s | 19.10nm | 5.1mb | TCF | 76.41 | 315 eP | 48 42.00 1.2 | KLU | 3.75 | 51 eP | 18 20.27 | -1.9 |
| CHTO | 73.34 | 67 iP | 00 46.90 0.2 | | 1.1s | 14.60nm | 5.0mb | TOA | 4.03 | 43 eP | 18 25.31 | -0.8 |
| | 0.9s | 7.89nm | 4.7mb | INK | 78.24 | 18 eP | 48 51.00 0.6 | | 27 obs. associated | | | |
| | | pP | 00 54.20 23kmX | | S.D. = 1.5 | on 34 of 39 obs. | | * FEB 10, 1989 | 01h 28m 57.84± 1.40s | | | |
| WMQ | 73.80 | 40 P | 00 50.10 1.0 | & FEB 10, 1989 | 01h 04m 24.00s | | | 51.190 N ± 15.6km | 15.678 E ± 7.0km | | | |
| VAO | 74.61 | 249 eP | 00 53.00 -1.2 | | 50.065 N | 64.655 W | | DEPTH = 5.0km | (geophysicist) | | | |
| SOD | 75.76 | 359 eP | 01 00.00 0.3 | | DEPTH = 18.0km | (geophysicist) | | POLAND | (548) | | | |
| KEV | 78.15 | 359 iP | 01 14.00 1.1 | EASTERN QUEBEC | (449) | | | ML 3.5 (VKA), 3.4 (KBA). | | | | |
| | 0.6s | 14.30nm | 5.2mb | <OTT-P> | mblg 4.4 (OTT). Felt | | | | | | | |
| GYA | 82.15 | 62 P | 01 36.20 0.8 | (IV) at Riviere-St.-Jean and | | | | KSP | 0.52 | 132 iPd | 29 06.50 | -1.8 |
| LZH | 82.29 | 52 eP | 01 38.00 2.0 | Mingon; (III) at Port-Cortier, | | | | | | iS | 29 15.00 | |
| | | | | Sept.-Iles and Port-Menier. | | | | BRG | 1.14 | 255 ePn | 29 19.60 | 0.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|------|-----|-------|----|-------|-------|-----------------------------------|--|-------------------------------|------|-----|-----|----|-------|-------|-----------------------------------|------|--------------------------------------|--------|----------|-------|-------|---------|-------|------|-------|------|
| | | | iPg | 30 | 21.10 | | | | IMI | 0.69 | 140 | P | 31 | 17.37 | -0.6 | PRS | 1.16 | 163 | eP | 30 | 26.90 | -1.4 | | | | | |
| | | | iSg | 30 | 40.90 | | | | | | | S | 31 | 26.53 | | CMB | 1.25 | 62 | eP | 30 | 28.40 | -1.5 | | | | | |
| PRU | 1.40 | 211 | Pn | 29 | 24.50 | 0.4 | | | FIN | 0.71 | 109 | P | 31 | 17.88 | -0.4 | | | eS | 30 | 44.20 | | | | | | | |
| | | | Pg | 29 | 26.00 | | | | | | | S | 31 | 27.05 | | FRI | 1.72 | 105 | eP | 30 | 36.00 | -0.7 | | | | | |
| | | | Sn | 29 | 43.00 | | | | RSP | 0.71 | 359 | P | 31 | 17.27 | -1.1 | | | eS | 30 | 56.00 | | | | | | | |
| | | | Sg | 29 | 48.50 | | | | | | | S | 31 | 26.85 | | KVN | 3.31 | 60 | e(P) | 30 | 57.50 | -2.3 | | | | | |
| CLL | 1.69 | 275 | iPn | 29 | 26.80 | -1.3 | | | CALN | 0.74 | 202 | Pg | 31 | 18.87 | 0.0 | 13 obs. associated | | | | | | | | | | | |
| | | | iPg | 29 | 30.00 | | | | | | | Sg | 31 | 28.42 | | FEB 10, 1989 06h 45m 09.19± 0.80s | | | | | | | | | | | |
| | | | iSg | 29 | 55.10 | | | | FRF | 0.99 | 207 | Pg | 31 | 22.90 | -0.1 | 16.994 N ± 7.2km 62.239 W ± 6.5km | | | | | | | | | | | |
| KHC | 2.46 | 214 | iPn | 29 | 40.10 | 0.7 | | | | | | Sg | 31 | 35.50 | | DEPTH = 10.0km (geophysicist) | | | | | | | | | | | |
| | | | Pg | 29 | 46.50 | | | | LSD | 1.02 | 355 | P | 31 | 23.70 | -0.1 | LEEWARD ISLANDS (92) | | | | | | | | | | | |
| | | | Sn | 30 | 15.60 | | | | LPG | 1.12 | 341 | Pg | 31 | 26.30 | 0.8 | ML 3.1 (FDF). | | | | | | | | | | | |
| | | | Sg | 30 | 24.50 | | | | | | | Sg | 31 | 40.60 | | | | | | | | | | | | | |
| MOX | 2.63 | 260 | ePn | 29 | 42.00 | 0.4 | | | LPL | 1.14 | 341 | Pg | 31 | 26.50 | 0.6 | | | MGH | 0.27 | 175 | eP | 45 | 15.50 | 0.6 | | | |
| | | | iPg | 29 | 49.00 | | | | | | | Sg | 31 | 40.90 | | | | | eS | 45 | 20.02 | | | | | | |
| | | | iSg | 30 | 28.00 | | | | LRG | 1.18 | 214 | Pg | 31 | 26.60 | 0.2 | | | NEV | 0.35 | 294 | eP | 45 | 16.09 | -0.3 | | | |
| KRA | 2.94 | 111 | eP | 29 | 47.70 | 1.6 | | | | | | Sg | 31 | 40.90 | | | | | eS | 45 | 19.76 | | | | | | |
| | | | eS | 30 | 26.70 | | | | LMR | 1.24 | 207 | Pg | 31 | 27.30 | 0.1 | | | ANG | 0.42 | 68 | eP | 45 | 18.53 | 0.7 | | | |
| VKA | 2.96 | 172 | iPg | 29 | 54.30 | 8.0X | | | | | | Sg | 31 | 42.60 | | | | | eS | 45 | 23.09 | | | | | | |
| | | | iSg | 30 | 37.50 | | | | CVF | 2.20 | 148 | Pn | 31 | 44.20 | 2.8 | | | SKI | 0.59 | 305 | eP | 45 | 27.37 | 6.3X | | | |
| | | | i | 30 | 38.30 | | | | BGF | 3.77 | 306 | Pn | 32 | 02.00 | -1.7 | | | BSK | 0.67 | 302 | eP | 45 | 30.11 | 7.6X | | | |
| ZST | 3.14 | 162 | e(Pn) | 29 | 53.80 | 5.0X | S.D. = 0.9 on 20 of 20 obs. | | | | | | | | | | | | SKDB | 0.68 | 306 | eP | 45 | 30.47 | 7.9X | | |
| GRF | 3.22 | 244 | e(Pn) | 29 | 50.00 | 0.0 | FEB 10, 1989 04h 53m 28.70± 0.46s | | | | | | | | | | | | | eS | 45 | 32.65 | | | | | |
| | | | eSg | 30 | 47.50 | | 40.278 N ± 5.1km 25.650 E ± 4.7km | | | | | | | | | | | | SEG | 0.92 | 130 | ePd | 45 | 26.67 | 0.0 | | |
| SOP | 3.56 | 170 | eP | 30 | 18.80 | 24.0X | DEPTH = 10.0km (geophysicist) | | | | | | | | | | | | | S | 45 | 39.00 | | | | | |
| KBA | 4.39 | 201 | iPnc | 30 | 06.80 | -0.1 | AEGEAN SEA (365) | | | | | | | | | | | | PAG | 1.10 | 151 | eP | 45 | 29.70 | -0.2 | | |
| | | | iSg | 31 | 25.50 | | MD 3.7 (ATH). | | | | | | | | | | | | | S | 45 | 45.40 | | | | | |
| | | | i | 31 | 29.60 | | | | EZN | 0.69 | 131 | iPg | 53 | 41.90 | -0.4 | | | DEG | 1.32 | 121 | ePd | 45 | 32.30 | -1.3 | | | |
| S.D. = 1.2 on 9 of 12 obs. | | | | | | | | | RDO | 0.87 | 354 | ePn | 53 | 45.60 | 0.2 | | | | S | 45 | 50.30 | | | | | | |
| & FEB 10, 1989 03h 56m 19.90s | | | | | | | | | PRK | 1.14 | 155 | ePn | 53 | 50.50 | 0.5 | | | MGG | 1.39 | 140 | eP | 45 | 34.24 | -0.3 | | | |
| 33.000 N 117.860 W | | | | | | | | | | | | eSn | 54 | 07.00 | | | | | S | 45 | 53.00 | | | | | | |
| DEPTH = 6.0km (geophysicist) | | | | | | | | | KDZ | 1.38 | 353 | iPc | 53 | 54.00 | 0.0 | | | BBL | 1.63 | 153 | eP | 45 | 38.90 | 0.8 | | | |
| SOUTHERN CALIFORNIA (43) | | | | | | | | | RZN | 1.58 | 334 | iPd | 53 | 56.00 | -0.9 | | | S.D. = 0.8 on 8 of 11 obs. | | | | | | | | | |
| <PAS-P>. ML 3.4 (PAS). | | | | | | | | | PLG | 1.69 | 274 | ePn | 53 | 58.00 | -0.4 | | | * FEB 10, 1989 07h 43m 58.63± 1.17s | | | | | | | | | |
| SCI | 0.58 | 268 | iPd | 56 | 31.00 | -0.5 | | | EDC | 1.69 | 87 | iPn | 53 | 58.50 | 0.0 | | | 20.334 S ± 15.9km 177.743 W ± 11.3km | | | | | | | | | |
| CIS | 0.61 | 312 | ePc | 56 | 30.80 | -1.3 | | | BNT | 1.74 | 87 | iPn | 53 | 59.90 | 0.8 | | | DEPTH = 512.0 ± 14.8 km | | | | | | | | | |
| CPE | 0.65 | 100 | ePc | 56 | 31.90 | -1.0 | | | MMB | 1.96 | 313 | iPc | 54 | 02.00 | -0.3 | | | 4.9mb (11 obs.) | | | | | | | | | |
| PLM | 0.91 | 67 | iPc | 56 | 36.10 | -1.7 | | | PLD | 1.96 | 339 | eP | 54 | 07.00 | 4.7X | | | FIJI ISLANDS REGION (181) | | | | | | | | | |
| BAR | 1.05 | 107 | ePc | 56 | 38.50 | -1.6 | | | KCT | 2.07 | 90 | iPn | 54 | 08.50 | 4.5X | | | AFI | 8.56 | 43 | eP | 46 | 02.00 | -0.3 | | | |
| PEC | 1.06 | 33 | iPd | 56 | 38.80 | -1.5 | | | DMK | 2.22 | 45 | ePn | 54 | 04.00 | -2.1 | | | | (S) | 47 | 35.00 | | | | | | |
| RVR | 1.07 | 22 | eP | 56 | 38.80 | -1.6 | | | IZM | 2.26 | 146 | iPn | 54 | 06.50 | -0.2 | | | DZM | 14.85 | 261 | iPc | 47 | 08.70 | 1.3 | | | |
| IKP | 1.52 | 103 | iPc | 56 | 46.30 | -1.4 | | | CTT | 2.28 | 67 | iPn | 54 | 05.40 | -1.6 | | | BRS | 27.82 | 250 | iPd | 49 | 08.80 | 1.0 | | | |
| ABL | 2.17 | 329 | eP | 56 | 55.50 | -1.7 | | | JMB | 2.30 | 18 | iPd | 54 | 12.00 | 4.8X | | | COO | 29.17 | 243 | eP | 49 | 20.00 | 0.4 | | | |
| GLA | 2.55 | 88 | eP | 56 | 59.80 | -2.7 | | | DST | 2.39 | 105 | iPn | 54 | 09.40 | 0.9 | | | CAN | 32.80 | 236 | eP | 49 | 51.00 | 0.5 | | | |
| BLP | 2.63 | 307 | eP | 57 | 01.00 | -2.6 | | | KKB | 2.51 | 310 | eP | 54 | 10.00 | -0.2 | | | BWA | 32.99 | 238 | eP | 49 | 50.30 | -1.8 | | | |
| BCH | 2.86 | 320 | eP | 57 | 04.50 | -2.5 | | | PGB | 2.53 | 334 | iPc | 54 | 10.00 | -0.5 | | | CTA | 33.75 | 264 | iPd | 49 | 59.00 | 0.5 | | | |
| PHAM | 3.52 | 324 | eP | 57 | 13.70 | -2.6 | | | VAY | 2.56 | 295 | ePn | 54 | 12.40 | 1.5 | | | | 0.7s | 89.04nm | 5.4mb | | | | | | |
| TNP | 5.10 | 6 | e(P) | 57 | 37.50 | -1.3 | | | ISK | 2.71 | 72 | ePn | 54 | 16.00 | 2.9X | | | PMG | 35.54 | 283 | iPd | 50 | 13.70 | 0.2 | | | |
| CMB | 5.43 | 338 | e(P) | 57 | 38.50 | -4.9 | | | GBZT | 2.94 | 79 | ePn | 54 | 29.50 | 13.2X | | | | 0.5s | 28.17nm | 5.1mb | | | | | | |
| KVN | 6.04 | 358 | eP | 57 | 48.50 | -3.6 | | | VTs | 2.95 | 322 | iP | 54 | 21.00 | 4.4X | | | STK | 38.08 | 244 | iPd | 50 | 35.20 | 1.0 | | | |
| 16 obs. associated | | | | | | | | | SZH | 2.99 | 4 | eP | 54 | 17.00 | 0.0 | | | ASPA | 44.79 | 257 | iPd | 51 | 27.70 | -0.3 | | | |
| * FEB 10, 1989 04h 25m 25.74± 1.40s | | | | | | | | | GPA | 3.56 | 88 | ePn | 54 | 20.60 | -4.6X | | | | 1.0s | 142.00nm | 5.5mb | | | | | | |
| 35.259 N ± 18.7km 7.207 E ± 9.4km | | | | | | | | | KHL | 3.58 | 122 | iPn | 54 | 25.50 | 0.0 | | | WB5 | 44.85 | 262 | iP | 51 | 27.80 | -0.6 | | | |
| DEPTH = 10.0km (geophysicist) | | | | | | | | | SKO | 3.60 | 299 | ePn | 54 | 27.50 | 1.8 | | | WB2 | 44.85 | 262 | iP | 51 | 27.80 | -0.6 | | | |
| DODECANESE ISLANDS (369) | | | | | | | | | OHR | 3.78 | 284 | ePn | 54 | 26.50 | -1.9 | | | WRA | 44.86 | 262 | Pd | 51 | 27.50 | -1.0 | | | |
| MD 3.8 (ATH). | | | | | | | | | TLB | 4.65 | 21 | ePc | 54 | 54.00 | 13.4X | | | | 0.8s | 31.70nm | 4.9mb | | | | | | |
| KAP | 0.31 | 22 | ePg | 25 | 32.50 | 0.2 | | | ISR | 4.90 | 7 | eP | 54 | 41.00 | -3.2X | | | KNA | 50.89 | 266 | eP | 52 | 13.00 | -1.0 | | | |
| NPS | 1.16 | 271 | ePb | 25 | 47.40 | 0.0 | | | MLR | 5.22 | 2 | ePc | 54 | 50.00 | 1.3 | | | WARB | 51.11 | 252 | iPd | 52 | 07.70 | -7.9X | | | |
| KSL | 2.25 | 67 | ePn | 26 | 04.00 | 0.4 | | | CFR | 5.24 | 20 | ePd | 54 | 51.00 | 2.1 | | | | 0.3s | 13.00nm | 4.8mb | | | | | | |
| VAM | 2.32 | 274 | ePb | 26 | 08.00 | 3.5X | | | BBTK | 5.47 | 92 | eP | 55 | 03.50 | 11.1X | | | MBL | 58.03 | 257 | iPd | 53 | 03.00 | -1.3 | | | |
| ELL | 2.77 | 57 | eP | 26 | 11.50 | 0.4 | | | | | | iS | 56 | 27.50 | | | | | 0.4s | 49.00nm | 5.2mb | | | | | | |
| BCK | 3.62 | 52 | eP | 26 | 22.00 | -1.1 | | | VRI | 5.64 | 8 | ePc | 54 | 55.00 | 0.4 | | | NANU | 61.67 | 255 | iPd | 53 | 28.00 | -0.5 | | | |
| S.D. = 0.9 on 5 of 6 obs. | | | | | | | | | BZS | 6.10 | 332 | ePc | 55 | 00.00 | -1.0 | | | | 0.3s | 17.00nm | 4.9mb | | | | | | |
| FEB 10, 1989 04h 31m 04.29± 0.39s | | | | | | | | | & FEB 10, 1989 06h 30m 06.30s | | | | | | | | | | | | TRT | 68.29 | 270 | ePd | 54 | 10.20 | 0.0 |
| 44.439 N ± 3.0km 7.274 E ± 4.5km | | | | | | | | | 37.448 N 121.782 W | | | | | | | | | | | | SPA | 69.79 | 180 | iPd | 54 | 18.90 | 0.4 |
| DEPTH = 10.0km (geophysicist) | | | | | | | | | DEPTH = 7.0km | | | | | | | | | | | | | 1.0s | 15.50nm | 4.5mb | | | |
| NORTHERN ITALY (545) | | | | | | | | | CENTRAL CALIFORNIA (39) | | | | | | | | | | | | KVN | 81.22 | 43 | eP | 55 | 22.50 | 0.6 |
| ML 2.9 (LDG). 2.8 (GEN). | | | | | | | | | <BRK>. ML 2.5 (BRK). | | | | | | | | | | | | TNP | 81.24 | 44 | eP | 55 | 22.00 | -0.1 |
| PZZ | 0.14 | 298 | Pc | 31 | 08.61 | 0.9 | | | MHC | 0.15 | 133 | iPc | 30 | 09.60 | -0.1 | | | | 1.0s | 5.00nm | 4.0mb | | | | | | |
| | | | S | 31 | 11.09 | | | | | | | iS | 30 | 12.00 | | | | FBA | 88.03 | 12 | eP | 55 | 53.90 | -0.5 | | | |
| FOUF | 0.36 | 285 | P | 31 | 12.05 | 0.3 | | | ARN | 0.22 | 116 | iPc | 30 | 10.70 | -0.2 | | | CHG | 90.41 | 290 | iPd | 56 | 07.90 | 1.6 | | | |
| | | | Sg | 31 | 17.10 | | | | GCC | 0.45 | 202 | iPd | 30 | 15.00 | -0.4 | | | | 0.8s | 9.70nm | 4.8mb | | | | | | |
| TOUF | 0.43 | 183 | Pg | 31 | 12.78 | -0.3 | | | PCC | 0.48 | 276 | iPd | 30 | 15.40 | -0.6 | | | CHTO | 90.41 | 290 | iP | 56 | 07.00 | 0.7 | | | |
| ROB | 0.45 | 108 | P | 31 | 13.48 | 0.0 | | | | | | eS | 30 | 22.00 | | | | | 0.8s | 8.97nm | 4.8mb | | | | | | |
| | | | S | 31 | 19.69 | | | | BKS | 0.56 | 320 | eP | 30 | 17.20 | -0.3 | | | SLL | 139.14 | 352 | ePKP | 02 | 19.40 | -8.4X | | | |
| AUTN | 0.46 | 166 | Pg | 31 | 13.27 | -0.4 | | | | | | i | 30 | 17.40 | | | | | 0.4s | 2.20nm | | | | | | | |
| MVIF | 0.55 | 189 | Pg | 31 | 15.07 | -0.4 | | | BRK | 0.57 | 318 | eP | 30 | 17.30 | -0.4 | | | KSP | 147.60 | 343 | iPKP | 02 | 45.80 | 3.3X | | | |
| | | | Sg | 31 | 22.61 | | | | ZSP | 0.62 | 323 | eP | 30 | 18.20 | -0.6 | | | CLL | 147.95 | 347 | iPKPd | 02 | 46.20 | 3.2X | | | |
| AURF | 0.55 | 176 | Pg | 31 | 15.07 | -0.5 | | | SAO | 0.73 | 158 | eP | 30 | 20.30 | -0.6 | | | | 0.9s | 18.00nm | | | | | | | |
| RRL | 0.59 | 324 | P | 31 | 16.40 | -0.1 | | | | | | eS | 30 | 31.15 | | | | PRU | 148.84 | 345 | ePKP | 02 | 48.50 | 4.1X | | | |
| | | | S | 31 | 24.65 | | | | LLA | 1.07 | 141 | eP | 30 | 25.40 | -1.3 | | | PRNI | 148.87 | 295 | iPKPd | 02 | 49.50 | 4. | | | |

10d 08h

MBH 149.08 294 ePKP 02 50.00 4.6X
 MEM 149.64 355 PKP 02 50.60 5.0X
 KHC 149.87 345 PKP 02 51.90 5.8X
 DOU 150.24 357 PKP 02 52.00 5.5X
 S.D. = 0.9 on 23 of 34 obs.

* FEB 10, 1989 08h 26m 07.67±0.86s
 51.148 N ±16.1km 176.168 W ± 7.9km
 DEPTH = 33.0km (normal)
 4.9mb (3 obs.)

ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK 0.80 337 iPd 26 22.70 0.2
 SDN 10.28 60 eP 28 34.70 -1.2
 KDC 15.22 55 eP 29 44.20 2.7
 TTA 16.02 35 eP 29 56.50 4.6X
 PMS 17.79 45 eP 30 14.40 0.3
 PMR 18.12 44 eP 30 17.10 -0.9
 IMA 18.82 29 eP 30 27.70 0.9
 FBA 20.13 36 eP 30 40.80 -0.5
 INK 26.71 34 eP 31 43.00 -2.3
 MBC 33.21 21 eP 32 42.00 -1.0
 YKA 34.19 47 eP 32 53.10 1.5
 EDM 37.48 62 eP 33 20.00 0.5
 KVN 41.69 83 eP 34 04.00 9.2X
 BW06 44.79 74 eP 34 19.40 -0.7
 HHC 49.34 288 eP 34 51.20 -4.4X
 BTO 50.42 288 eP 35 04.60 0.8
 TIY 50.77 284 eP 35 07.40 0.9
 XAN 55.33 283 eP 35 39.90 -0.4
 GUN 73.47 294 P 37 38.70 -0.3
 KKN 73.90 294 P 37 41.00 -0.4
 0.5s 5.00nm 4.8mb
 PKI 74.00 294 P 37 41.90 -0.1
 0.6s 9.00nm 4.9mb
 GKN 74.11 295 P 37 41.80 -0.7
 0.5s 7.00nm 4.9mb
 DMN 74.14 294 P 37 43.30 0.5
 S.D. = 1.1 on 20 of 23 obs.

% FEB 10, 1989 09h 23m 24.78±1.33s
 60.474 N ± 6.8km 5.364 E ±13.2km
 DEPTH = 0.0km (geophysicist)
 SOUTHERN NORWAY (535)
 MD 2.0 (BER). Probable
 explosion.

BER 0.09 189 iPg 23 26.68 0.0
 iSg 23 28.36
 HYA 0.80 30 iP 23 40.79 0.0
 iSg 23 52.64
 ODD1 0.85 131 iP 23 41.31 -0.4
 iSn 23 53.96
 KMY 1.27 183 eP 23 48.95 -0.2
 iS 24 04.41
 BLS1 1.31 145 iP 23 50.63 0.6
 iSg 24 07.75
 S.D. = 0.5 on 5 of 5 obs.

FEB 10, 1989 09h 25m 35.11±0.78s
 41.321 N ± 9.1km 15.692 E ± 7.6km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN ITALY (390)

DUI 0.99 291 P 25 53.70 -0.2
 eSg 26 08.70
 MGR 1.19 185 P 25 58.00 0.8
 eSn 26 16.60
 BRT 1.23 111 P 25 56.50 -1.4
 eSn 26 12.90
 SDI 1.46 286 P 26 00.90 -0.7
 eSg 26 20.80
 HVAR 1.94 17 iPn 26 09.30 0.9
 LCI 1.98 119 P 26 09.60 0.6
 eSg 26 35.40
 S.D. = 1.2 on 6 of 6 obs.

? FEB 10, 1989 10h 12m 07.81±0.89s
 3.676 N ±25.7km 91.212 W ±36.9km
 DEPTH = 10.0km (geophysicist)
 4.6mb (4 obs.) 3.6Msz (1 obs.)
 EAST CENTRAL PACIFIC OCEAN (693)

ZOBO 30.23 132 P 18 21.20 -0.6
 Z 20s 0.15um 3.6Msz
 LR 29 08.00
 CNCB 30.68 132 P 18 25.50 -0.2

MEO 31.70 348 eP 18 34.60 0.7
 1.3s 16.70nm 4.8mb
 ALO 34.18 337 eP 18 55.00 -0.7
 1.0s 5.75nm 4.4mb
 TNP 41.68 329 eP 19 58.90 0.4
 0.8s 2.65nm 4.0mb
 KVN 42.86 329 eP 20 07.00 -1.2
 RSON 47.06 358 eP 20 42.10 0.7
 0.9s 11.34nm 5.0mb
 PNT 51.49 337 eP 21 16.00 0.4
 YKA 61.20 348 P 22 24.30 -0.6
 INK 70.52 345 eP 23 24.00 -0.4
 MBC 74.19 353 eP 23 45.00 -1.1
 GKN 148.25 7 PKP 31 54.00 0.7
 GUN 148.47 5 PKP 31 54.90 1.0
 KKN 148.54 6 PKP 31 54.60 0.8
 S.D. = 0.8 on 14 of 14 obs.

FEB 10, 1989 11h 15m 24.68±0.13s
 2.305 N ± 3.1km 126.760 E ± 3.3km
 DEPTH = 44.0km (geophysicist)
 6.2mb (68 obs.) 6.8Msz (18 obs.)
 MOLUCCA PASSAGE (266)

Ms 6.6 (BRK), 6.4 (PAS).
 Mo=4.10±19 Nm (PPT). Felt at
 Manado and Bitung, Sulawesi.
 Depth from broadband
 displacement seismograms.
 FAULT PLANE SOLUTION: P-Waves
 NP1: Strike=210 Dip=65 Slip= 45
 NP2: 97 50 147
 Principal Axes:
 T Plg=49 Azm= 71
 P 9 330
 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: 7 Focal mech. M
 Energy 1.9±0.7*10**15 Nm
 MOMENT TENSOR SOLUTION
 Dep 60 No. of sta: 10
 Moment Tensor: Scale 10**19 Nm
 Mrr= 4.15 Mtt=-3.10
 Mff=-1.05 Mrt=-0.70
 Mrf=-1.32 Mtf=-2.59
 Principal axes:
 T Val= 4.46 Plg=77 Azm= 93
 N 0.59 10 233
 P -5.05 8 325
 Best Double Couple: Mo=4.8*10**19
 NP1: Strike= 67 Dip=38 Slip= 107
 NP2: 226 54 77

CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 37C M.W.: 14S, 32C
 Centroid Location:
 Origin Time 11:15:31.2 0.2
 Lat 2.64N 0.02 Lon 126.72E 0.02
 Dep 43.5 0.7 Half-duration 14.0
 Moment Tensor: Scale 10**19 Nm
 Mrr= 4.97 0.07 Mtt=-1.27 0.04
 Mff=-3.69 0.05 Mrt=-1.39 0.12
 Mrf=-2.17 0.13 Mtf=-1.79 0.05
 Principal Axes:
 T Val= 5.62 Plg=76 Azm=126
 N -0.33 2 29
 P -5.29 14 299
 Best Double Couple: Mo=5.4*10**19
 NP1: Strike= 26 Dip=31 Slip= 87
 NP2: 210 59 92

MNI 2.10 246 ePc 15 59.50 1.4
 DAV 4.90 346 ePd- 16 37.00 -0.7
 AAI 6.12 166 ePc 16 58.50 3.5X
 eS 18 19.00
 TSM 8.88 283 ePd 17 35.80 2.4
 0.8s 328.80nm 6.4mb
 TLE 9.90 143 ePc 17 49.10 1.6
 1.0s 81.00nm 5.8mb
 MKS 10.43 224 iPd 17 55.50 0.8
 1.2s 1819.80nm 7.1mb
 iS 19 58.50
 PPR 10.90 313 ePd 18 03.00 1.9

KKM 11.15 290 eS 18 45.00
 iPd 18 05.50 0.9
 i 18 34.00
 i 19 07.00
 KUPT 12.77 194 ePc 18 33.00 6.8X
 1.5s 9975.80nm 7.6mb X
 QCP 13.48 336 eP 18 28.00 -7.5X
 JAY 14.74 109 ePd 18 52.00 -0.2
 BAG 15.28 337 iPd 18 55.00 -4.3X
 KHKI 15.36 226 eP 19 00.80 0.6
 MTN 15.67 164 iPd 19 01.40 -2.7
 PIP 17.02 340 ePc 19 19.40 -1.8
 0.9s 466.00nm 5.6mb
 TRT 17.25 235 iPc 19 24.20 0.1
 eS 20 04.60
 KNA 18.05 174 eP 19 31.00 -3.0X
 eS 22 56.00
 MNDI 18.85 117 eP 19 44.00 -0.1
 GUMO 21.12 57 eP 20 05.80 -2.3
 1.2s 2638.89nm 6.5mb
 PJG 21.12 57 eP 20 06.00 -2.1
 GUA 21.14 57 eP 20 06.00 -2.3
 1.3s 4153.85nm 6.6mb
 LAT 22.08 114 eP 20 17.00 -0.7
 WB5 23.28 162 eP 20 26.20 -3.3X
 ANP 23.30 348 iPc 20 29.00 -0.7
 iS 24 35.00
 WRA 23.33 162 Pd 20 29.10 -0.9
 WB2 23.33 162 eP 20 26.20 -3.8X
 HKC 23.34 329 Pd 20 28.60 -1.4
 S 24 34.00
 PMG 23.42 120 iPc 20 28.50 -2.3
 1.0s 660.00nm 6.1mb
 KGM 23.43 270 ePd 20 31.10 0.2
 e 21 03.90
 QIZ 23.46 316 Pd 20 28.00 -3.2X
 E 20s 288.00um
 MCO 23.51 328 eP 20 30.50 -1.2
 QZH 23.85 341 Pd 20 32.00 -2.9
 N 28s 178.00um
 LMG 24.06 118 e(P) 20 37.00 -0.2
 MBL 24.29 196 eP 20 37.00 -2.2
 0.4s 118.00nm 5.8mb
 GZH 24.41 329 Pd 20 38.00 -2.4
 Z 23s 162.00um 6.5Msz X
 N 20s 170.00um
 E 14s 100.00um
 PP 21 05.50
 S 24 52.50
 IPM 25.78 276 ePd 20 51.00 -2.5
 0.9s 67.40nm 5.2mb X
 e 20 57.00
 e 21 18.90
 QIS 25.98 152 iPc 20 53.20 -2.0
 RAB 26.20 104 eP 20 55.00 -2.4
 0.7s 120.55nm 5.6mb
 SNG 26.49 281 eP 20 58.70 -1.3
 1.3s 376.92nm 5.8mb
 eS 25 41.80
 PPI 26.50 264 eP 21 00.80 0.7
 1.0s 68.90nm 5.2mb X
 ASPA 26.74 165 iPc 20 59.00 -3.2X
 eS 25 45.90
 eScS 31 46.50
 NANU 27.04 203 iPd 21 03.00 -1.9
 0.5s 68.00nm 5.5mb
 PSI 27.81 271 ePc 21 10.00 -2.1
 0.8s 183.90nm 5.8mb
 WARB 28.32 180 iPc 21 08.50 -8.0X
 NNT 28.64 292 eP 21 17.50 -2.0
 LOE 28.80 303 eP 21 18.50 -2.5
 KAGJ 28.99 7 eP 21 22.30 -0.2
 SSE 29.12 350 iPc 21 23.00 -0.6
 8.0s 17.10nm 3.8mb X
 Z 20s 67.00um 6.3Msz
 N 21s 104.00um
 iS 26 10.00
 SS 27 42.00
 CTA 29.35 140 iPc+ 21 24.00 -1.8
 1.2s 671.88nm 6.2mb
 iS 26 16.00
 CTAO 29.35 140 ePc 21 24.80 -1.0
 ePd 21 37.71 51kmX
 esPd 21 42.18
 NST 29.41 298 iPc 21 25.00 -1.4
 MEKA 29.83 195 iPc 21 27.90 -2.2
 0.4s 154.00nm 6.1mb

[illegible]

| | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|-------|----------|---------|--------|-------|-------|-----|-------|-------|----------|------|-------|-------|----------|-----|--------|-----------|-----------|--------|-------|----------|---------|
| | Z | 21s | 64.00um | 7.0Msz | HLW | 93.56 | 300 | iPc | 28 | 38.00 | 0.2 | | | | LR | 09 | 32.00 | | | | | | |
| PPN | | 84.79 | 108 | iP | 27 | 58.00 | 1.7 | | HRT | 93.88 | 311 | eP | 28 | 39.80 | 0.8 | PRY | 99.32 | 243 | eP | 29 | 05.70 | 1.5 | |
| | | 1.2s | 180.00nm | 6.1mb | | | | | NUR | 93.96 | 331 | iP | 28 | 38.50 | -0.4 | | 0.8s | 21.88nm | | | | 5.7mb | |
| TVO | | 84.98 | 108 | iP | 27 | 59.60 | 2.3 | | | | | ePP | 32 | 40.00 | | PSZ | 99.52 | 319 | eP | 29 | 07.00 | 2.4 | |
| | | 1.2s | 360.00nm | 6.4mb | | | | | | | | eS | 39 | 04.00 | | RGS | 99.59 | 336 | eP | 29 | 04.40 | -0.1 | |
| PMR | | 85.17 | 29 | eP | 27 | 56.80 | -0.6 | | | | | ePS | 40 | 32.00 | | SKO | 99.80 | 313 | iPc | 29 | 04.00 | -1.9 | |
| | | 0.9s | 604.20nm | 6.8mb | | | | | | | | | | | | | 8.0s | 3240.00nm | | | | 6.9mb X | |
| Z | | 20s | 20.00um | 6.5Msz | | | | | | | | | | | | | Z | 27s | 60.00um | | | 7.0Msz X | |
| TBI | | 85.20 | 114 | iP | 28 | 00.30 | 2.1 | | TRO | 94.00 | 340 | iP | 28 | 40.50 | 1.6 | | N | 27s | 50.00um | | | | |
| | | 1.2s | 270.00nm | 6.3mb | | | | | GBZT | 94.05 | 311 | iPd | 28 | 40.50 | 0.8 | | E | 28s | 93.00um | | | | |
| COL | | 85.99 | 25 | iPc | 28 | 01.05 | -0.4 | | ELL | 94.13 | 307 | iP | 28 | 41.00 | 0.6 | | | | | | | | |
| | | 1.1s | 911.39nm | 6.9mb | | | | | KHL | 94.26 | 309 | iP | 28 | 41.20 | 0.3 | | | | | | | | |
| | | | | | | | | | ISK | 94.31 | 311 | eP | 28 | 41.30 | 0.4 | | | | | | | | |
| FBA | | 85.99 | 25 | ePd | 28 | 13.30 | 40kmX | | CFR | 94.44 | 315 | eP | 28 | 42.00 | 0.6 | | | | | | | | |
| PMO | | 86.09 | 105 | iP | 28 | 04.60 | 1.8 | | KSL | 94.45 | 306 | eP | 28 | 42.10 | 0.4 | | | | | | | | |
| | | 1.2s | 185.00nm | 6.2mb | | | | | TLB | 94.61 | 315 | ePd | 28 | 44.00 | 1.8 | | | | | | | | |
| TPT | | 86.36 | 105 | iP | 28 | 06.40 | 2.3 | | BIR | 94.66 | 317 | eP | 28 | 43.00 | 0.6 | | | | | | | | |
| | | 1.2s | 175.00nm | 6.2mb | | | | | PPE | 94.67 | 317 | ePd | 28 | 44.00 | 1.5 | | BEO | 99.88 | 316 | eP | 29 | 05.70 | -0.5 |
| VAH | | 86.36 | 105 | iP | 28 | 06.10 | 2.0 | | CTT | 94.77 | 311 | eP | 28 | 43.80 | 0.7 | | KZN | 99.90 | 311 | eP | 29 | 06.00 | -0.5 |
| | | 1.2s | 115.00nm | 6.0mb | | | | | DST | 94.81 | 310 | iP | 28 | 44.50 | 1.1 | | NRA0 | 100.04 | 333 | ePdiff | 29 | 08.40 | 1.8 |
| MID | | 86.45 | 31 | eP | 28 | 06.20 | 2.5 | | CLI | 94.85 | 317 | ePd | 28 | 45.00 | 1.6 | | NB2 | 100.07 | 334 | Pdiff | 29 | 04.50 | -2.2 X |
| RUV | | 86.60 | 105 | iP | 28 | 07.40 | 2.1 | | ALE | 95.16 | 1 | eP | 28 | 45.00 | 0.9 | | | 0.8s | 37.30nm | | | 6.0mb | |
| | | 1.2s | 190.00nm | 6.2mb | | | | | DMK | 95.18 | 312 | eP | 28 | 45.00 | 0.0 | | BUD | 100.20 | 319 | ePdiff | 29 | 07.50 | -0.1 |
| TOA | | 86.60 | 28 | ePc | 28 | 05.00 | 0.4 | | EDC | 95.30 | 311 | iP | 28 | 45.50 | 0.0 | | CGY | 100.33 | 244 | ePdiff | 29 | 09.00 | 0.4 |
| AAE | | 87.66 | 279 | eP | 28 | 12.30 | 1.4 | | VRI | 95.34 | 316 | iPc | 28 | 45.00 | -0.6 | | | 0.5s | 17.61nm | | | 5.9mb | |
| NPA | | 88.19 | 255 | iP | 28 | 14.00 | 1.0 | | PTT | 95.41 | 317 | eP | 28 | 47.50 | 1.6 | | OHR | 100.45 | 312 | ePdiff | 28 | 52.80 | -16.2 X |
| | | 1.0s | 530.00nm | 6.8mb | | | | | ISR | 95.58 | 316 | eP | 28 | 47.50 | 0.7 | | | | | | | | |
| KVT | | 89.04 | 311 | iP | 28 | 17.30 | 0.6 | | PTZ | 95.81 | 256 | iPd | 28 | 48.70 | 0.3 | | KKS | 100.53 | 313 | ePdiff | 29 | 20.20 | 11.1 X |
| AYN | | 89.57 | 299 | eP | 28 | 20.00 | 0.7 | | | | | i | 28 | 52.20 | | | SRO | 100.58 | 319 | ePdiff | 29 | 09.50 | 0.3 |
| HRI | | 89.60 | 303 | iPd | 28 | 23.20 | 3.6 X | | | | | iS | 39 | 17.00 | | | | | | | | | |
| BHL | | 89.65 | 304 | Pc | 28 | 20.00 | 0.2 | | | | | i | 40 | 44.00 | | | | | | | | | |
| | | | | | | | | MLR | 95.94 | 316 | iPc | 28 | 48.00 | -0.6 | | | | | | | | | |
| | | | | | | | | JMB | 95.96 | 313 | iPd | 28 | 49.00 | 0.5 | | PHP | 100.59 | 313 | ePdiff | 29 | 09.50 | 0.1 | |
| | | | | | | | | IZM | 96.02 | 309 | eP | 28 | 49.50 | 0.6 | | BCI | 100.71 | 314 | ePdiff | 29 | 10.40 | 0.5 | |
| DSI | | 89.98 | 301 | iPd | 28 | 22.90 | 1.7 | | BUC1 | 96.06 | 315 | eP | 28 | 44.00 | -4.9 X | | YKA | 100.77 | 25 | Pdiff | 29 | 09.90 | 0.2 |
| NAI | | 90.01 | 269 | iPd | 28 | 23.00 | 1.0 | | SZH | 96.30 | 314 | iPgd | 28 | 47.00 | -3.1 X | | LSK | 100.81 | 311 | ePdiff | 29 | 09.30 | -1.3 |
| | | 1.0s | 22.00nm | 5.4mb | | | | KAP | 96.46 | 306 | eP | 28 | 52.50 | 1.6 | | YKC | 100.84 | 24 | ePdiff | 29 | 09.50 | -0.5 | |
| | | | | | | | | EZN | 96.54 | 310 | eP | 28 | 51.60 | 0.5 | | | 0.8s | 20.00nm | | | 5.8mb | | |
| ZNT | | 90.25 | 302 | iP | 28 | 24.60 | 2.1 | | PRK | 96.66 | 310 | eP | 28 | 52.10 | 0.4 | | PUK | 100.91 | 313 | ePdiff | 29 | 10.70 | -0.1 |
| PRNI | | 90.37 | 300 | iP | 28 | 25.10 | 2.0 | | PVL | 96.75 | 314 | iPd | 28 | 51.00 | -1.0 | | KSP | 100.99 | 323 | ePdiff | 29 | 11.30 | 0.3 |
| HOL | | 90.38 | 299 | eP | 28 | 24.00 | 0.9 | | DIM | 96.79 | 313 | eP | 28 | 54.00 | 1.8 | | | 1.1s | 96.00nm | | | 6.3mb | |
| BADA | | 90.46 | 298 | eP | 28 | 25.00 | 1.5 | | RDO | 96.93 | 312 | eP | 28 | 53.80 | 0.9 | | | | | | | | |
| MBH | | 90.50 | 300 | iPd | 28 | 25.40 | 1.8 | | KDZ | 96.94 | 312 | iP | 29 | 00.00 | 7.0 X | | | | | | | | |
| FAM | | 90.95 | 305 | eP | 28 | 28.50 | 2.9 | | CJR1 | 97.35 | 318 | eP | 28 | 55.00 | 0.3 | | | | | | | | |
| KKL | | 91.14 | 306 | iP | 28 | 26.00 | -0.4 | | PLD | 97.39 | 313 | eP | 28 | 54.00 | -0.9 | | FRS | 101.07 | 240 | iPdiff | 29 | 17.00 | 5.1 X |
| SYO | | 91.15 | 201 | iPc | 28 | 26.60 | 0.8 | | UPP | 97.52 | 331 | iP | 28 | 53.80 | -1.3 | | | 0.7s | 13.70nm | | | 5.7mb | |
| | | | | | | | | | | 0.9s | 100.00nm | | | | 6.3mb | | TIR | 101.09 | 313 | ePdiff | 29 | 12.50 | 0.8 |
| KEV | | 91.23 | 340 | iPc | 28 | 23.82 | -2.4 | | | | | i | 29 | 19.60 | | | | | | | | | |
| | | 1.1s | 144.00nm | 6.3mb | | | | | | | | i | 31 | 59.80 | | TIR | 101.09 | 313 | ePdiff | 29 | 25.00 | 13.3 X | |
| | | | | | | | | PGB | 97.70 | 313 | iP | 28 | 57.00 | 0.5 | | | | | | | | | |
| | | | | | | | | NPS | 97.77 | 306 | eP | 28 | 58.80 | 2.0 | | | | | | | | | |
| LFK | | 91.32 | 305 | eP | 28 | 29.40 | 2.0 | | WAR | 97.77 | 323 | eP+ | 28 | 56.00 | -0.4 | | | | | | | | |
| INK | | 91.47 | 22 | iPc | 28 | 27.00 | -0.3 | | Z | 32s | 150.00um | | | | 7.3Msz X | | | | | | | | |
| | | 1.1s | 314.00nm | 6.6mb | | | | | | | | e | 33 | 25.00 | | | | | | | | | |
| | | | | | | | | | | | | e | 39 | 31.00 | | | | | | | | | |
| | | | | | | | | | | | | e | 40 | 04.00 | | | | | | | | | |
| CSS | | 91.51 | 305 | eP | 28 | 28.50 | 0.3 | | LWI | 98.04 | 268 | ePc | 28 | 59.00 | 0.3 | | LACI | 101.14 | 313 | ePdiff | 29 | 12.00 | 0.1 |
| ANTO | | 91.59 | 310 | iPc | 28 | 26.54 | -2.0 | | MMB | 98.20 | 312 | iPc | 28 | 57.00 | -1.7 | | KMZ | 101.16 | 257 | ePdiff | 29 | 14.00 | 1.3 |
| | | | | | | | | VTS | 98.39 | 313 | ePd | 29 | 00.00 | 0.3 | | | | | | | | | |
| BBTK | | 91.61 | 310 | eP | 28 | 29.00 | 0.3 | | BUL | 98.44 | 250 | eP+ | 29 | 00.10 | -0.1 | | | | | | | | |
| | | | | | | | | | | 0.8s | 68.66nm | | | | 6.2mb | | | | | | | | |
| SOD | | 91.79 | 338 | iP | 28 | 28.40 | -0.4 | | Z | 20s | 8.23um | | | | 6.2Msz | | BERA | 101.17 | 312 | ePdiff | 29 | 12.90 | 0.9 |
| | | | | | | | | | N | 21s | 5.16um | | | | | | SDA | 101.20 | 313 | ePdiff | 29 | 12.80 | 0.7 |
| KJF | | 91.88 | 334 | eP | 28 | 27.00 | -2.3 | | KKB | 98.62 | 313 | ePd | 29 | 00.00 | -0.5 | | PGC | 101.21 | 40 | ePdiff | 29 | 16.00 | 4.0 X |
| | | 0.7s | 54.70nm | 6.1mb | | | | PLG | 98.63 | 311 | eP | 29 | 00.40 | -0.2 | | TPE | 101.22 | 312 | ePdiff | 29 | 08.50 | -3.8 X | |
| | | | | | | | | SLR | 98.63 | 244 | ePDI Fc | 29 | 00.21 | -0.8 | | VLS | 101.23 | 309 | ePdiff | 29 | 12.50 | 0.1 | |
| | | | | | | | | | | | | ePd | 29 | 12.35 | 39kmX | | ZST | 101.26 | 320 | ePdiff | 29 | 12.60 | 0.3 |
| SPA | | 92.29 | 180 | iPc | 28 | 31.00 | -0.3 | | DAG | 98.68 | 352 | iPc | 28 | 58.90 | -1.2 | | Z | 24s | 43.50um | | | 6.9Msz X | |
| Z | | 22s | 4.92um | 5.9Msz | | | | | | 1.2s | 234.38nm | | | | 6.6mb | | | | | | | | |
| PPCY | | 92.32 | 305 | eP | 28 | 32.50 | 0.6 | | ATH | 98.84 | 309 | eP | 29 | 00.00 | -1.6 | | TTG | 101.28 | 314 | ePdiff | 29 | 20.70 | -0.5 |
| SIT | | 92.39 | 33 | eP | 28 | 33.60 | 1.9 | | | | | eSKS | 39 | 34.00 | | | | | | | | | |
| | | Z | 20s | 25.00um | 6.7Msz | | | VAM | 98.89 | 306 | eP | 29 | 04.90 | 3.1 X | | COP | 101.55 | 328 | iPdiff | 29 | 15.00 | 1.7 | |
| AKSR | | 92.51 | 294 | iPc | 28 | 34.50 | 1.5 | | KRA | 98.96 | 321 | eP | 29 | 01.90 | 0.0 | | | | | | | | |
| ASW | | 92.60 | 294 | eP | 28 | 34.00 | 0.6 | | | 0.8s | 57.00nm | | | | 6.2mb | | | | | | | | |
| | | | | | | | | | Z | 31s | 68.50um | | | | 7.0Msz X | | KIM | 101.61 | 241 | iPdiff | 29 | 18.50 | 4.0 X |
| | | | | | | | | | N | 31s | 76.40um | | | | | | VKA | 101.74 | 320 | ePdiff | 29 | 14.00 | -0.4 |
| AGAL | | 92.70 | 293 | iPc | 28 | 35.00 | 1.2 | | | | | e | 29 | 05.40 | | | | 6.0s | 2239.00nm | | | 7.0mb X | |
| AGRW | | 92.70 | 294 | iPc | 28 | 35.50 | 1.7 | | | | | e | 29 | 10.60 | | | Z | 24s | 36.40um | | | 6.8Msz X | |
| AKUR | | 92.72 | 294 | iPc | 28 | 34.90 | 1.0 | | | | | iS | 40 | 27.00 | | | | | | | | | |
| SUF | | 92.83 | 333 | iP | 28 | 32.40 | -1.3 | | SPC | 98.99 | 320 | eP | 29 | 02.60 | 0.3 | | | | </ | | | | |

| | | | | | | | | | | | | | | | | | | | | | |
|------|--------|----------|--------|----|---------|-------|-----|--------|------|---------|-------|---------|-------|--------|--------|---------|----------|----------|-------|--------|-------|
| | | | S | 39 | 51.00 | | | | iSS | 48 | 51.00 | | DOU | 108.18 | 325 | Pdiff | 29 | 47.80 | 4.8X | | |
| | | | PS | 40 | 54.00 | | | | e | 51 | 28.00 | | | | | e | 33 | 13.30 | | | |
| | | | SS | 48 | 06.00 | | | | e | 52 | 31.00 | | GDH | 108.59 | 0 | ePdiff | 29 | 46.00 | 1.6 | | |
| PTJ | 102.66 | 318 | ePdiff | 29 | 21.60 | 2.9X | | | e | 56 | 21.00 | | | | | i | 33 | 16.00 | | | |
| ZAG | 102.67 | 318 | ePdiff | 29 | 20.50 | 1.9 | | | iLO | 58 | 01.00 | | | | | i | 34 | 15.00 | | | |
| CLL | 102.80 | 324 | ePdiff | 29 | 19.00 | 0.0 | | | i | 59 | 23.00 | | | | | i | 41 | 37.00 | | | |
| | 1.7s | 100.00nm | | | 6.2mb | | | | e | 00 | 46.00 | | | | | i | 49 | 29.00 | | | |
| Z | 25s | 81.50um | | | 7.2MszX | | | | eLR | 02 | 43.00 | | | | | | | | | | |
| | | | iSKS | 39 | 54.00 | | ORV | 105.12 | 48 | ePdiff | 29 | 32.20 | 2.5X | TNP | 108.75 | 48 | ePdiff | 29 | 50.00 | 3.9X | |
| | | | iS | 40 | 57.00 | | SDI | 105.38 | 314 | Pdiff | 29 | 30.50 | -0.3 | LPG | 108.85 | 320 | ePdiff | 29 | 49.50 | 3.0X | |
| LON | 102.83 | 41 | ePdiff | 29 | 19.00 | -0.3 | CTI | 105.46 | 319 | Pdiff | 29 | 35.00 | 3.8X | BNI | 109.08 | 320 | Pdiff | 29 | 50.50 | 3.2X | |
| MUD | 102.92 | 330 | iPdiff | 29 | 22.30 | 2.9X | EDM | 105.52 | 33 | ePdiff | 29 | 32.20 | 1.0 | CLC | 109.16 | 51 | ePdiff | 29 | 51.00 | 3.2X | |
| | 1.2s | 81.00nm | | | 6.3mb | | AZI | 105.56 | 315 | Pdiff | 29 | 36.50 | 5.0X | | | | ePP | 33 | 54.00 | | |
| KHC | 103.19 | 322 | Pdiff | 29 | 22.20 | 1.3 | MHC | 105.61 | 50 | ePdiff | 29 | 35.10 | 3.0X | CLC | 109.16 | 51 | ePKP | 33 | 54.00 | 2.0 | |
| | | | e | 29 | 23.50 | | | Z | 23s | 18.00um | | 6.6MszX | | | | | e | 34 | 19.00 | | |
| | | | S | 39 | 55.00 | | | N | 23s | 2.10um | | | | PAS | 109.20 | 53 | ePdiff | 29 | 50.00 | 2.1 | |
| KMR | 103.20 | 321 | iPdiff | 29 | 21.00 | 0.1 | | E | 23s | 16.00um | | | | | | | ePP | 34 | 12.00 | | |
| | | | iPP | 33 | 40.20 | | | | | | 31 | 06.00 | | | | | ePPP | 36 | 22.00 | | |
| | | | iS | 41 | 07.40 | | | | | | ePP | 33 | 53.00 | | | | eSKS | 40 | 44.00 | | |
| | | | iSP | 42 | 40.60 | | | | | | eSKS | 40 | 51.00 | | | | eS | 42 | 00.00 | | |
| VBY | 103.25 | 318 | ePdiff | 29 | 22.20 | 1.0 | | | | | e | 41 | 30.00 | | | | ePS | 43 | 40.00 | | |
| PNT | 103.40 | 38 | ePdiff | 29 | 24.00 | 2.2 | | | | | ePS | 43 | 01.00 | | | | ePPS | 44 | 26.00 | | |
| | 0.8s | 14.00nm | | | 5.8mb | | | | | | e | 45 | 01.00 | | | | ePKKP | 45 | 10.00 | | |
| LJU | 103.57 | 318 | ePdiff | 29 | 23.00 | 0.4 | | | | | eSS | 48 | 47.00 | | | | eSS | 49 | 10.00 | | |
| | | | e | 32 | 19.00 | | | | | | e | 51 | 50.00 | | | | SS | 53 | 48.00 | | |
| CEY | 103.73 | 318 | ePdiff | 29 | 23.80 | 0.4 | | | | | eSKKS | 53 | 44.00 | | | | eLg | 00 | 01.00 | | |
| MOX | 103.86 | 324 | ePdiff | 29 | 24.00 | 0.2 | | | | | eLO | 58 | 34.00 | | | | eLR | 04 | 51.00 | | |
| | 3.0s | 248.00nm | | | 6.5mb | | | | | | eLR | 03 | 12.00 | | LRM | 109.22 | 40 | ePdiff | 29 | 50.70 | 2.6X |
| Z | 24s | 67.30um | | | 7.1MszX | | ARN | 105.69 | 50 | Pdiff | 29 | 26.40 | -5.9X | LRM | 109.22 | 40 | ePKP | 33 | 56.70 | 4.6X | |
| N | 20s | 77.10um | | | | | ASS | 105.77 | 316 | Pdiff | 29 | 38.50 | 5.9X | SBB | 109.31 | 52 | ePdiff | 29 | 51.00 | 2.4X | |
| E | 20s | 46.90um | | | | | MNO | 105.80 | 310 | PKP | 34 | 03.90 | 18.1X | | | | ePP | 33 | 56.00 | | |
| | | | ePP | 34 | 00.00 | | | | | | eSg | 34 | 10.00 | | | | e | 34 | 20.00 | | |
| | | | iSKS | 40 | 00.00 | | WIT | 105.80 | 327 | ePdiff | 29 | 38.00 | 5.7X | SBB | 109.31 | 52 | ePKP | 33 | 56.00 | 3.6X | |
| | | | iS | 41 | 08.00 | | CER | 105.83 | 236 | ePdiff | 29 | 44.50 | 11.5X | | | | e | 34 | 20.00 | | |
| | | | iSP | 42 | 40.00 | | | | 0.6s | 14.29nm | | | | RVR | 109.87 | 53 | ePdiff | 29 | 53.00 | 2.0 | |
| | | | ePKKP | 45 | 17.00 | | | | | | e | 34 | 02.50 | | | | ePP | 33 | 58.00 | | |
| | | | iSS | 48 | 25.00 | | TNS | 105.89 | 324 | ePdiff | 29 | 39.00 | 6.1X | | | | e | 34 | 24.00 | | |
| | | | LO | 14 | 40.00 | | TUH | 105.96 | 236 | iPdiff | 29 | 38.50 | 4.9X | RVR | 109.87 | 53 | ePKP | 33 | 58.00 | 4.6X | |
| | | | LR | 19 | 45.00 | | | | 1.1s | 37.97nm | | 6.3mb | | | | | e | 34 | 24.00 | | |
| VOY | 103.99 | 319 | ePdiff | 29 | 25.70 | 1.1 | | | | | i | 33 | 39.80 | | LOR | 109.90 | 323 | ePdiff | 29 | 54.00 | 3.2X |
| KBA | 104.02 | 320 | ePdiff | 29 | 25.00 | 0.2 | MNS | 105.97 | 315 | Pdiff | 29 | 33.50 | 0.0 | | | | 1.1s | 17.00nm | | | |
| | 1.2s | 41.70nm | | | 6.1mb | | PRS | 106.08 | 51 | ePdiff | 29 | 35.40 | 1.4 | LBF | 109.96 | 322 | ePdiff | 29 | 54.30 | 3.2X | |
| | | | i | 29 | 30.30 | | WTS | 106.08 | 326 | ePdiff | 29 | 37.50 | 3.9X | | | | 1.1s | 17.00nm | | | |
| | | | i | 29 | 35.20 | | | | 1.3s | 86.00nm | | 6.6mb | | SMF | 110.19 | 322 | ePdiff | 29 | 55.30 | 3.2X | |
| | | | i(PP) | 33 | 46.00 | | PGD | 106.15 | 317 | Pdiff | 29 | 36.00 | 1.6 | | | | 0.8s | 6.70nm | | | |
| | | | i | 33 | 55.50 | | SAL | 106.36 | 319 | Pdiff | 29 | 38.00 | 3.0X | AVF | 110.43 | 322 | ePdiff | 29 | 56.50 | 3.4X | |
| | | | e | 34 | 07.00 | | CMB | 106.38 | 49 | ePdiff | 29 | 35.80 | 0.4X | PLM | 110.47 | 53 | ePdiff | 29 | 55.00 | 1.1 | |
| | | | iSKKS | 40 | 14.00 | | | | | | ePP | 34 | 02.00 | | | | ePP | 33 | 58.00 | | |
| | | | iPKKP | 45 | 16.50 | | | | | | ePKKP | 45 | 24.20 | | | | e | 34 | 30.00 | | |
| WDC | 104.07 | 47 | ePdiff | 29 | 28.10 | 3.1X | FIR | 106.50 | 317 | ePdiff | 29 | 36.00 | 0.3 | PLM | 110.47 | 53 | ePKP | 33 | 58.00 | 3.2X | |
| | | | ePP | 33 | 38.00 | | | | | | e | 32 | 54.00 | | | | e | 34 | 30.00 | | |
| | | | ePKKP | 45 | 39.00 | | | | | | iS | 40 | 14.00 | | FFC | 110.47 | 28 | ePdiff | 29 | 55.50 | 2.4X |
| RBL | 104.08 | 319 | Pdiff | 29 | 26.80 | 1.8 | | | | | i | 41 | 34.00 | | | | 2.2s | 153.00nm | | | |
| TDS | 104.11 | 312 | Pdiff | 29 | 27.10 | 1.9 | MDI | 106.83 | 319 | Pdiff | 29 | 38.00 | 0.9 | FFC | 110.47 | 28 | ePKP | 33 | 54.00 | 0.2 | |
| TRI | 104.18 | 318 | Pdiff | 29 | 27.00 | 1.7 | DBN | 106.94 | 327 | ePdiff | 29 | 44.00 | 6.6X | | | | 0.9s | 37.00nm | | | |
| GRF | 104.44 | 323 | ePdiff | 29 | 27.10 | 0.7 | | Z | 26s | 35.20um | | 6.8MszX | | BAR | 110.82 | 54 | ePdiff | 30 | 03.00 | 7.7X | |
| | | | | | | | | | | | ePP | 34 | 12.00 | | | | ePP | 34 | 00.00 | | |
| | | | e | 29 | 42.00 | | | | | | eSKS | 40 | 16.00 | | | | e | 34 | 31.00 | | |
| | | | eSKS | 40 | 05.20 | | | | | | eSP | 43 | 08.00 | | BAR | 110.82 | 54 | ePKP | 34 | 00.00 | 4.8X |
| | | | eSd | 41 | 19.00 | | | | | | eSS | 49 | 07.00 | | | | e | 34 | 31.00 | | |
| GRFO | 104.44 | 323 | ePdiff | 29 | 26.86 | 0.4 | ENN | 107.12 | 325 | ePdiff | 29 | 44.00 | 5.7X | TPC | 110.89 | 52 | ePdiff | 30 | 01.00 | 5.4X | |
| | | | ePPd | 29 | 37.62 | | MEM | 107.14 | 325 | Pdiff | 29 | 44.10 | 5.8X | | | | ePP | 34 | 00.00 | | |
| FVI | 104.54 | 319 | Pdiff | 29 | 33.30 | 6.4X | | | | | e | 33 | 15.60 | | | | e | 34 | 35.00 | | |
| MGR | 104.56 | 312 | Pdiff | 29 | 30.00 | 2.8X | FRI | 107.19 | 50 | ePdiff | 29 | 42.20 | 3.3X | TPC | 110.89 | 52 | ePKP | 34 | 00.00 | 4.6X | |
| MIN | 104.82 | 47 | ePdiff | 29 | 31.50 | 3.0X | CDF | 107.33 | 323 | ePdiff | 29 | 41.20 | 1.8 | | | | e | 34 | 35.00 | | |
| | | | ePP | 33 | 49.40 | | | | 1.2s | 29.70nm | | 6.3mb | | DMU | 112.09 | 332 | ePKP | 33 | 58.10 | 1.2 | |
| DUI | 104.93 | 314 | Pdiff | 29 | 40.00 | 11.1X | BOB | 107.37 | 318 | Pdiff | 29 | 41.00 | 1.3 | GLA | 112.19 | 53 | ePdiff | 30 | 04.00 | 2.7X | |
| BRK | 104.99 | 50 | ePdiff | 29 | 32.00 | 2.9X | VAI | 107.40 | 320 | Pdiff | 29 | 49.00 | 9.4X | | | | ePP | 34 | 01.00 | | |
| | | | | | | | WLF | 107.47 | 324 | Pdiff | 29 | 46.20 | 6.4X | | | | | | | | |
| | | | ePP | 33 | 52.00 | | | | | | e | 33 | 13.70 | | GLA | 112.19 | 53 | ePKP | 34 | 01.00 | 3.2X |
| | | | e | 42 | 50.00 | | | | | | e | 33 | 13.70 | | FRB | 113.13 | 7 | ePdiff | 30 | 08.00 | 3.3X |
| | | | e | 44 | 00.00 | | | | | | ePP | 33 | 54.00 | | ESEL | 113.81 | 316 | e(PKP) | 34 | 05.50 | 4.8X |
| | | | eLR | 03 | 00.00 | | | | | | e | 34 | 11.00 | | EROO | 115.05 | 318 | e(PKP) | 34 | 05.00 | 1.9 |
| BKS | 105.01 | 50 | ePdiff | 29 | 30.50 | 1.3 | SYP | 107.65 | 53 | ePKP | 33 | 54.00 | 4.7X | ECHE | 116.56 | 317 | e(PKP) | 34 | 08.50 | 2.5X | |
| | | | | | | | | | | | e | 34 | 11.00 | | GOL | 116.60 | 43 | ePKP | 34 | 06.00 | -0.4 |
| | | | e | 30 | 45.00 | | | | | | | | | | | | | | | | |
| | | | e | 33 | 26.00 | | KVN | 107.79 | 48 | Pdiff | 29 | 45.00 | 3.2X | Z | 20s | 25.00um | | | | 6.8Msz | |
| | | | iPP | 33 | 55.00 | | BSF | 107.86 | 322 | ePdiff | 29 | 44.50 | 2.7X | GLD | 116.68 | 43 | ePKP | 34 | 11.00 | 4.5X | |
| | | | ePPP | 36 | 05.00 | | BNG | 107.96 | 275 | iPdiff | 29 | 43.30 | 0.4 | | | | | | | 6.8Msz | |
| | | | iSKS | 40 | 47.00 | | | | 1.6s | 52.00nm | | 6.4mb | | ETOR | 116.70 | 319 | e(PKP) | 34 | 10.50 | 4.2X | |
| | | | i | 41 | 29.00 | | | | | | i | 29 | 47.50 | | RSON | 116.80 | 27 | ePKP | 34 | 05.00 | -1.1X |
| | | | ePS | 42 | 58.00 | | | | | | i | 33 | 06.00 | | | | | | | 7.1Msz | |
| | | | e(PPS) | 43 | 38.00 | | HAU | 108.06 | 322 | ePdiff | 29 | 45.10 | 2.5X | ANMO | 117.95 | 48 | ePdiff | 30 | 29.44 | 2.3X | |
| | | | i | 45 | 46.00 | | SES | 108.06 | 35 | ePdiff | 29 | 43.00 | 0.4 | ALO | 117.95 | 48 | e(Pdiff) | 30 | 33.00 | 5.8X | |
| | | | e | 47 | 10.00 | | SNF | 108.17 | 325 | Pdiff | 29 | 48.20 | 5.3X | ALO | 117.95 | | | | | | |

10d 11h

| | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|-------------------------------------|--|--|--|--|--|--|-----------------------------------|--|--|--|--|--|--|
| | | | | | | | LHS 135.17 33 PKP 34 31.00 -10.7X | | | | | | | GLA 112.21 53 ePKP 44 56.00 14.4X | | | | | | |
| | | | | | | | SGS 136.30 34 PKP 34 34.50 -9.3X | | | | | | | S.D. = 0.9 on 18 of 25 obs. | | | | | | |
| | | | | | | | HBF 136.57 34 PKP 34 35.00 -9.3X | | | | | | | | | | | | | |
| | | | | | | | VBA 143.53 168 e(PKP)34 53.20 -3.6X | | | | | | | FEB 10, 1989 11h 33m 55.44± 0.73s | | | | | | |
| | | | | | | | LCCH 144.56 153 ePKP 34 56.00 -2.6X | | | | | | | 37.732 N ± 7.4km 15.091 E ± 6.3km | | | | | | |
| | | | | | | | CHCH 144.58 155 ePKP 34 58.00 -0.7 | | | | | | | DEPTH = 10.0km (geophysicist) | | | | | | |
| | | | | | | | TACH 144.69 154 ePKP 34 57.50 -1.4X | | | | | | | SICILY (398) | | | | | | |
| | | | | | | | SAN 144.98 154 ePKPc 34 58.00 -1.4X | | | | | | | ML 2.9 (ROM). | | | | | | |
| | | | | | | | PEL 145.24 154 iPKPc 34 59.10 -0.8 | | | | | | | | | | | | | |
| | | | | | | | FCH 145.25 154 iPKP 35 00.00 -0.3 | | | | | | | ATN 0.52 34 P 34 06.40 0.4 | | | | | | |
| | | | | | | | JACH 145.67 154 iPKP 35 01.00 0.3 | | | | | | | MSI 0.60 38 P 34 07.90 0.4 | | | | | | |
| | | | | | | | SJS 146.99 68 ePKP 35 05.20 1.8 | | | | | | | MEU 0.64 192 P 34 07.40 -1.0 | | | | | | |
| | | | | | | | LCR2 147.11 68 iPKP 35 06.20 2.6X | | | | | | | GMB 0.75 54 P 34 09.64 -0.6 | | | | | | |
| | | | | | | | ICR 147.18 68 iPKPd 35 07.00 3.0X | | | | | | | LPI 0.77 351 P 34 10.47 0.0 | | | | | | |
| | | | | | | | CFA 147.60 156 ePKPd 35 03.30 -0.5 | | | | | | | SOI 0.83 66 P 34 12.00 0.5 | | | | | | |
| | | | | | | | JCR 147.89 67 iPKP 35 03.00 -1.7 | | | | | | | GIB 0.88 287 P 34 13.30 0.9 | | | | | | |
| | | | | | | | DVD 148.98 70 ePKPc 35 11.00 4.6X | | | | | | | FAI 1.21 248 P 34 19.30 1.3 | | | | | | |
| | | | | | | | HJA 156.10 151 ePKPc 35 18.10 1.8 | | | | | | | GRI 1.51 44 P 34 24.39 1.9 | | | | | | |
| | | | | | | | ARE 157.19 129 ePKP 35 20.00 1.8 | | | | | | | USI 1.79 303 P 34 25.30 -1.3 | | | | | | |
| | | | | | | | BMA 157.90 203 ePKP 35 20.00 2.2 | | | | | | | TDS 2.16 27 P 34 30.40 -1.5 | | | | | | |
| | | | | | | | | | | | | | | MGR 2.43 8 P 34 34.80 -1.0 | | | | | | |
| | | | | | | | | | | | | | | S.D. = 1.2 on 12 of 12 obs. | | | | | | |
| | | | | | | | | | | | | | | FEB 10, 1989 11h 36m 26.45± 0.23s | | | | | | |
| | | | | | | | | | | | | | | 2.319 N ± 4.3km 126.571 E ± 6.4km | | | | | | |
| | | | | | | | | | | | | | | DEPTH = 33.0km (normal) | | | | | | |
| | | | | | | | | | | | | | | 5.4mb (12 obs.) | | | | | | |
| | | | | | | | | | | | | | | MOLUCCA PASSAGE (266) | | | | | | |
| | | | | | | | | | | | | | | JAY 14.92 109 ePd 40 01.50 4.6X | | | | | | |
| | | | | | | | | | | | | | | TRT 17.10 234 ePd 40 31.50 6.8X | | | | | | |
| | | | | | | | | | | | | | | 0.6s 26.50nm 4.5mb | | | | | | |
| | | | | | | | | | | | | | | KNA 18.08 173 eP 40 37.50 0.6 | | | | | | |
| | | | | | | | | | | | | | | GUMO 21.27 57 eP 41 13.60 1.2 | | | | | | |
| | | | | | | | | | | | | | | 0.7s 50.83nm 5.0mb | | | | | | |
| | | | | | | | | | | | | | | GUA 21.29 57 eP 41 13.00 0.4 | | | | | | |
| | | | | | | | | | | | | | | QIZ 23.32 317 eP 41 33.60 0.9 | | | | | | |
| | | | | | | | | | | | | | | WB5 23.35 161 eP 41 33.00 0.0 | | | | | | |
| | | | | | | | | | | | | | | WB2 23.41 161 eP 41 33.00 -0.5 | | | | | | |
| | | | | | | | | | | | | | | GZH 24.30 329 eP 41 41.60 -0.6 | | | | | | |
| | | | | | | | | | | | | | | ASPA 26.80 165 iPd 42 05.20 -0.4 | | | | | | |
| | | | | | | | | | | | | | | NANU 26.98 203 eP 42 08.50 1.3 | | | | | | |
| | | | | | | | | | | | | | | WARB 28.33 180 eP 42 13.30 -6.2X | | | | | | |
| | | | | | | | | | | | | | | CTA 29.48 140 iPd 42 29.80 -0.1 | | | | | | |
| | | | | | | | | | | | | | | 1.2s 117.19nm 5.5mb | | | | | | |
| | | | | | | | | | | | | | | MEKA 29.79 195 eP 42 33.00 0.4 | | | | | | |
| | | | | | | | | | | | | | | WHN 30.36 339 P 42 38.00 0.4 | | | | | | |
| | | | | | | | | | | | | | | i 43 25.50 | | | | | | |
| | | | | | | | | | | | | | | BDT 30.88 300 eP 42 42.60 0.3 | | | | | | |
| | | | | | | | | | | | | | | CHTO 31.63 303 e(P) 42 48.10 -0.9 | | | | | | |
| | | | | | | | | | | | | | | FORR 33.02 178 eP 43 00.30 -0.5 | | | | | | |
| | | | | | | | | | | | | | | TSRJ 34.19 14 P 43 09.30 -1.6 | | | | | | |
| | | | | | | | | | | | | | | IIDJ 34.63 16 P 43 14.50 -0.4 | | | | | | |
| | | | | | | | | | | | | | | TIA 34.84 347 eP 43 17.20 0.6 | | | | | | |
| | | | | | | | | | | | | | | i 44 04.00 | | | | | | |
| | | | | | | | | | | | | | | CHJJ 35.48 17 eP 43 19.10 -2.9 | | | | | | |
| | | | | | | | | | | | | | | XAN 35.60 334 Pc 43 22.30 -0.9 | | | | | | |
| | | | | | | | | | | | | | | MTMJ 35.64 16 P 43 19.80 -3.7X | | | | | | |
| | | | | | | | | | | | | | | RMO 35.77 145 eP 43 23.00 -1.6 | | | | | | |
| | | | | | | | | | | | | | | NIIJ 36.59 17 eP 43 30.00 -1.3 | | | | | | |
| | | | | | | | | | | | | | | STK 36.88 158 eP 43 33.00 -0.9 | | | | | | |
| | | | | | | | | | | | | | | TIY 37.54 341 eP 43 38.40 -1.0 | | | | | | |
| | | | | | | | | | | | | | | YAMJ 37.76 17 eP 43 40.60 -0.6 | | | | | | |
| | | | | | | | | | | | | | | CMS 38.28 153 eP 43 45.00 -0.6 | | | | | | |
| | | | | | | | | | | | | | | BJI 38.72 347 eP 43 49.00 -0.2 | | | | | | |
| | | | | | | | | | | | | | | BRS 38.86 141 iPc 43 48.30 -2.3 | | | | | | |
| | | | | | | | | | | | | | | OFUJ 39.10 19 eP 43 52.40 0.0 | | | | | | |
| | | | | | | | | | | | | | | SNY 39.42 356 eP 43 56.00 1.0 | | | | | | |
| | | | | | | | | | | | | | | LZH 39.64 331 eP 43 57.00 -0.1 | | | | | | |
| | | | | | | | | | | | | | | 2.0s 0.08nm 2.1mb X | | | | | | |
| | | | | | | | | | | | | | | COO 40.66 146 eP 44 05.60 0.2 | | | | | | |
| | | | | | | | | | | | | | | HMC 40.68 342 P 44 06.80 1.2 | | | | | | |
| | | | | | | | | | | | | | | CN2 41.32 359 eP 44 11.00 0.4 | | | | | | |
| | | | | | | | | | | | | | | BWA 41.92 153 eP 44 17.30 1.5 | | | | | | |
| | | | | | | | | | | | | | | CAN 42.93 153 eP 44 24.70 0.7 | | | | | | |
| | | | | | | | | | | | | | | GTA 44.22 330 eP 44 34.20 -0.3 | | | | | | |
| | | | | | | | | | | | | | | GUN 46.43 307 P 44 52.00 -0.6 | | | | | | |
| | | | | | | | | | | | | | | PKI 46.66 307 P 44 53.80 -0.6 | | | | | | |
| | | | | | | | | | | | | | | 0.4s 13.00nm 5.3mb | | | | | | |
| | | | | | | | | | | | | | | KKN 46.86 307 P 44 54.80 -1.0 | | | | | | |
| | | | | | | | | | | | | | | 0.6s 32.00nm 5.5mb | | | | | | |
| | | | | | | | | | | | | | | DMN 46.92 306 P 44 56.60 0.2 | | | | | | |
| | | | | | | | | | | | | | | 0.7s 31.00nm 5.4mb | | | | | | |
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GKN 47.47 307 P 44 59.60 -0.9
0.5s 21.00nm 5.4mb
HYB 49.45 291 eP 45 14.50 -1.4
GBA 49.83 286 P 45 17.30 -1.4
0.6s 16.70nm 5.2mb
WMO 53.79 326 eP 45 50.00 1.8
QUE 62.77 303 eP 46 50.80 -0.6
MHI 70.24 308 eP 47 41.00 2.3
TAB 80.89 308 eP 48 41.00 1.7
TTA 82.22 27 eP 48 46.50 0.9
KDC 83.21 32 P 48 51.20 0.6
IMA 83.73 24 iPc 48 54.50 1.1
1.1s 40.60nm 5.5mb
PMR 85.25 29 eP 49 00.70 -0.1
1.3s 56.60nm 5.6mb
FBA 86.06 25 P 49 06.20 1.3
INK 91.53 21 eP 49 30.00 -0.7
KJF 91.79 334 eP 49 32.00 0.0
0.8s 11.70nm 5.4mb
SUF 92.73 333 iP 49 37.70 1.4
0.5s 2.30nm 4.9mb
GOL 116.72 43 PKP 55 10.00 0.2
RSON 116.88 27 PKP 55 08.60 -0.8
ELC 128.47 37 PKP 55 32.60 0.6
PWLA 130.71 38 PKP 55 36.60 0.2
TKL 132.76 34 PKP 55 40.90 0.6
CVL 133.69 28 PKP 55 43.50 1.6
S.D. = 1.1 on 62 of 66 obs.

FEB 10, 1989 11h 37m 15.31± 0.23s
2.443 N ± 4.3km 126.566 E ± 7.0km
DEPTH = 33.0km (normal)
5.4mb (5 obs.)
MOLUCCA PASSAGE (266)

MKS 10.40 223 ePc 39 52.00 6.7X
PIP 16.83 340 ePc 41 10.00 -0.1
KNA 18.21 173 eP 41 30.00 2.7
MNDI 19.09 117 eP 41 49.00 10.7X
HKC 23.12 330 Pc 42 20.00 0.4
GZH 24.20 329 eP 42 29.80 -0.2
ASPA 26.92 165 eP 42 57.20 1.6
NANU 27.09 203 eP 42 58.00 0.9
WARB 28.46 180 eP 43 03.00 -6.5X
SSE 28.95 350 P 43 14.50 0.7
1.0s 0.04nm 2.0mb X
MEKA 29.91 195 eP 43 21.00 -1.6
NJ2 30.33 347 eP 43 26.50 0.3
GYA 30.58 323 P 43 29.00 0.4
CHTO 31.56 303 e(P) 43 37.50 0.3
0.6s 19.22nm 5.1mb
FORR 33.14 178 eP 43 48.50 -2.2
TSRJ 34.07 14 eP 43 58.90 0.1
LIDJ 34.52 16 eP 44 02.70 0.0
CHJJ 35.36 18 P 44 08.30 -1.6
MTMJ 35.52 16 eP 44 10.10 -1.3
NIIJ 36.47 17 eP 44 17.60 -1.6
DL2 36.57 354 P 44 21.00 1.0
STK 37.00 159 eP 44 23.00 -0.7
RKG 37.42 193 eP 44 34.00 6.8X
TIY 37.42 341 Pc 44 27.30 0.0
CMS 38.39 153 eP 44 35.00 -0.4
BJI 38.59 347 eP 44 37.00 0.0
BRS 38.96 141 P 44 41.00 0.7
SNY 39.30 356 Pc 44 43.00 0.1
HHC 40.56 342 P 44 52.80 -0.7
COO 40.76 146 eP 44 54.00 -1.2
MRRJ 41.87 16 eP 45 07.10 3.1X
BWA 42.04 153 eP 45 05.70 0.2
HOOJ 42.49 18 eP 45 10.80 1.7
CAN 43.04 153 eP 45 13.10 -0.7
KUSJ 43.59 19 eP 45 18.40 0.4
ASAJ 43.88 17 eP 45 20.70 0.4
GTA 44.11 330 eP 45 22.80 0.3
GUN 46.36 307 P 45 40.40 -0.4
PKI 46.59 306 P 45 42.70 0.1
KKK 46.78 307 P 45 43.20 -0.9
DMN 46.85 306 P 45 45.00 0.4
GKN 47.39 307 P 45 48.00 -0.8
HYB 49.41 291 eP 46 04.00 -0.4
GBA 49.79 286 P 46 06.00 -1.3
WMO 53.68 326 iPc 46 38.50 2.2
MHI 70.16 308 eP 48 28.00 0.9
SDN 78.33 34 eP 49 13.40 -0.3
TTA 82.11 27 P 49 34.90 1.0
0.7s 27.18nm 5.4mb
KDC 83.10 32 eP 49 39.40 0.5

IMA 83.62 24 iPc 49 43.00 1.3
0.8s 51.40nm 5.7mb
PMR 85.15 29 eP 49 49.50 0.3
0.9s 41.70nm 5.6mb
FBA 85.95 25 eP 49 52.10 -1.1
INK 91.41 21 eP 50 19.00 0.0
MBC 93.24 13 eP 50 27.00 -0.3
BUL 98.30 250 eP 50 51.90 0.3
ipP 51 41.20 198kmX
NB2 99.86 333 P 50 55.80 -2.0
0.6s 1.50nm 4.7mb
YKA 100.73 24 Pdiff 51 02.40 0.9
LRM 109.23 39 ePKP 55 44.00 -0.2
FRB 113.02 7 ePKP 55 49.00 -1.4
GOL 116.63 43 PKP 55 58.40 -0.1
RSON 116.77 27 PKP 55 57.10 -0.9
ALO 118.01 48 PKP 56 01.80 0.6
SCH 121.88 9 ePKP 56 07.00 -0.7
OLY 128.14 40 PKP 56 20.70 0.4
ELC 128.38 37 PKP 56 20.70 0.0
KIC 130.60 280 PKP 56 27.60 2.0
PWLA 130.61 38 PKP 56 24.40 -0.6
GBTN 132.41 34 PKP 56 28.70 0.2
TKL 132.66 34 PKP 56 28.80 -0.1
S.D. = 1.0 on 64 of 69 obs.

* FEB 10, 1989 11h 38m 05.03± 0.83s
2.244 N ± 14.3km 126.580 E ± 16.6km
DEPTH = 33.0km (normal)
5.4mb (3 obs.)
MOLUCCA PASSAGE (266)

AAI 6.11 165 eP 39 45.00 9.6X
KNA 18.01 173 eP 42 15.00 0.4
ASPA 26.72 165 eP 43 45.30 1.8
0.9s 113.00nm 5.5mb
NANU 26.91 203 eP 43 44.00 -1.2
MEKA 29.72 195 eP 44 11.00 0.4
CHTO 31.68 303 e(P) 44 27.90 -0.1
0.7s 43.36nm 5.4mb
FORR 32.94 178 eP 44 38.00 -0.7
STK 36.81 158 eP 45 11.00 -0.8
CMS 38.21 153 eP 45 23.00 -0.6
BRS 38.79 141 P 45 27.00 -1.6
COO 40.59 145 eP 45 43.60 0.1
BWA 41.85 153 eP 45 55.30 1.5
CAN 42.86 153 eP 46 02.40 0.4
MSZ 59.46 147 P 48 06.90 -0.2
MHI 70.29 308 eP 49 18.00 0.4
BUL 98.25 250 iPd 51 41.20 0.1
1.1s 15.19nm 5.4mb
S.D. = 1.0 on 15 of 16 obs.

FEB 10, 1989 11h 47m 37.06± 0.32s
2.438 N ± 5.5km 126.529 E ± 9.3km
DEPTH = 33.0km (normal)
5.3mb (10 obs.)
MOLUCCA PASSAGE (266)

MNI 1.96 240 eP 48 20.50 11.9X
TLE 10.15 142 ePc 50 05.10 1.5
TRT 17.14 234 ePc 50 40.70 5.0X
KNA 18.21 173 eP 51 48.00 -1.1
QIZ 23.21 316 eP 52 44.70 2.5
GZH 24.18 329 eP 52 51.80 0.2
ASPA 26.92 165 eP 53 16.60 -0.8
0.5s 38.00nm 5.3mb
NANU 27.07 203 eP 53 18.00 -0.6
WARB 28.45 180 eP 53 23.00 -8.2X
MEKA 29.90 194 eP 53 44.00 -0.2
CHTO 31.53 303 e(P) 53 57.50 -1.2
0.8s 16.47nm 4.9mb
MRWA 33.06 197 eP 54 13.00 1.2
FORR 33.14 178 eP 54 09.00 -3.4X
COOL 33.53 188 eP 54 17.00 1.0
BAL 34.17 195 eP 54 21.00 -0.5
TIA 34.71 347 eP 54 25.90 -0.2
KLB 34.85 193 eP 54 29.00 1.7
XAN 35.48 334 Pc 54 34.20 1.5
MUN 35.60 195 eP 54 35.00 1.3
NWAQ 36.26 193 eP 54 42.00 2.8
STK 37.01 158 eP 54 44.00 -1.5
TIY 37.42 341 eP 54 50.20 1.2
BJI 38.59 347 P 54 59.00 0.3
SNY 39.30 357 eP 55 06.00 1.4
LZH 39.51 331 eP 55 07.50 0.8
2.0s 0.11nm 2.3mb X

COO 40.78 146 eP 55 15.00 -2.0
CN2 41.20 359 eP 55 16.00 -4.2X
BWA 42.05 153 eP 55 26.50 -0.9
CAN 43.06 153 eP 55 34.90 -0.7
GTA 44.10 330 eP 55 45.10 0.9
GUN 46.33 307 P 56 01.20 -1.2
PKI 46.56 306 P 56 04.00 -0.2
0.6s 21.00nm 5.3mb
KKK 46.76 307 P 56 05.00 -0.6
0.7s 35.00nm 5.5mb
DMN 46.82 306 P 56 05.30 -0.9
0.8s 47.00nm 5.5mb
GKN 47.36 307 P 56 09.20 -1.1
0.9s 39.00nm 5.4mb
HYB 49.37 291 eP 56 25.00 -0.9
GBA 49.76 286 P 56 27.00 -1.8
e 59 07.00
WMO 53.67 326 P 57 02.00 4.1X
QUE 62.67 303 eP 57 59.40 -2.0
MHI 70.13 308 eP 58 48.00 -0.7
AVY 80.21 250 eP 59 48.10 1.5
TTA 82.14 27 eP 59 57.70 2.0
KDC 83.13 32 P 00 00.60 -0.2
1.0s 45.00nm 5.5mb
IMA 83.64 24 eP 00 03.50 0.0
0.9s 20.80nm 5.3mb
PMR 85.17 29 eP 00 09.80 -1.2
0.9s 22.90nm 5.4mb
FBA 85.97 25 P 00 15.30 0.3
NPA 88.00 255 eP 00 27.00 1.2
INK 91.43 21 eP 00 39.00 -1.9
NB2 99.85 333 P 01 18.00 -1.5
0.8s 3.50nm 4.9mb
YKA 100.75 24 Pdiff 01 24.40 1.0
GOL 116.66 43 PKP 06 19.80 -0.5
FVM 127.23 37 PKP 06 41.30 1.0
ELC 128.40 36 PKP 06 42.40 -0.1
PWLA 130.64 38 PKP 06 46.00 -0.8
TKL 132.68 34 PKP 06 50.80 0.1
S.D. = 1.3 on 49 of 55 obs.

FEB 10, 1989 11h 58m 13.88± 0.37s
2.157 N ± 6.5km 126.564 E ± 9.9km
DEPTH = 33.0km (normal)
5.2mb (8 obs.)
MOLUCCA PASSAGE (266)

KNA 17.93 173 eP 02 23.00 0.6
ASPA 26.64 165 iPd 03 51.40 -0.2
0.7s 20.00nm 4.8mb
eS 08 28.10
NANU 26.83 203 eP 03 55.00 1.8
WARB 28.17 180 eP 04 00.00 -5.5X
MEKA 29.64 195 eP 04 19.00 0.3
CHTO 31.71 303 eP 04 37.00 -0.1
1.0s 18.75nm 4.9mb
FORR 32.86 178 iPd 04 47.10 0.3
TIY 37.69 342 eP 05 29.40 1.3
BRS 38.74 141 P 05 35.00 -2.0
BJI 38.87 347 eP 05 39.50 1.6
BWA 41.78 152 eP 06 07.70 5.7X
CAN 42.79 153 eP 06 10.20 -0.1
GUN 46.53 307 P 06 39.90 -0.9
PKI 46.75 307 P 06 43.00 0.5
KKK 46.95 307 P 06 43.20 -0.8
0.6s 13.00nm 5.1mb
DMN 47.01 307 P 06 43.80 -0.7
0.8s 34.00nm 5.4mb
GKN 47.56 307 P 06 47.40 -1.3
0.8s 28.00nm 5.3mb
HYB 49.51 291 eP 07 02.80 -0.9
GBA 49.87 286 P 07 06.00 -0.5
e 07 43.00
WMO 53.92 326 eP 07 38.00 1.5
TTA 82.37 27 eP 10 34.20 0.4
KDC 83.34 32 P 10 38.60 -0.1
0.6s 10.84nm 5.1mb
IMA 83.88 24 eP 10 42.10 0.5
0.9s 20.80nm 5.3mb
PMR 85.40 29 eP 10 48.50 -0.5
0.9s 16.70nm 5.2mb
INK 91.68 21 eP 11 18.00 -0.8
YKA 100.99 24 Pdiff 12 01.40 0.1
S.D. = 1.0 on 24 of 26 obs.

FEB 10, 1989 12h 07m 43.88± 1.06s
2.398 N ± 3.1km 126.628 E ± 4.4km

10d 12h

DEPTH = 42.0 ± 9.6 km

5.3mb (19 obs.)

MOLUCCA PASSAGE

(266)

DAV 4.78 347 eP 08 55.00 -0.3
 TSM 8.73 282 ePd 09 55.00 4.4X
 TLE 10.05 143 ePc 10 14.30 5.5X
 MKS 10.41 223 iPc 10 22.00 8.3X
 KKM 11.00 290 ePd 10 23.80 2.0
 BAG 15.14 337 eP 11 17.00 0.1
 KHKI 15.33 226 ePc 11 25.50 6.4X
 PIP 16.89 340 ePc 11 41.30 2.4
 TRT 17.19 234 ePc 11 44.20 1.5

0.6s 43.00nm 4.8mb
 KNA 18.15 173 eP 11 50.00 -4.7X
 MNDI 19.01 117 eP 12 12.00 6.7X
 GUMO 21.18 57 eP 12 28.70 0.6

1.1s 150.77nm 5.3mb
 PJG 21.18 57 eP 12 29.20 1.1
 GUA 21.20 58 eP 12 28.70 0.4
 HKC 23.19 330 Pd 12 48.40 0.4
 KGM 23.29 270 eP 12 51.00 2.0
 OIZ 23.31 316 Pd 12 49.60 0.5
 WB5 23.41 161 eP 12 54.50 4.4X
 WRA 23.46 162 Pc 12 49.70 -0.9
 0.7s 109.60nm 5.5mb
 WB2 23.46 161 eP 12 50.30 -0.3
 OZH 23.72 342 eP 12 53.50 0.5

Z 28s 14.10um 5.3mszX
 N 28s 14.90um

GZH 24.27 329 eP 12 58.00 -0.4
 MBL 24.34 196 eP 13 00.00 0.9
 0.5s 24.00nm 5.0mb
 IPM 25.64 276 ePd 13 13.00 1.4
 0.9s 54.70nm 5.1mb
 ASPA 26.86 165 eP 13 20.60 -2.1
 NANU 27.07 203 eP 13 24.80 0.2
 0.4s 10.00nm 4.8mb
 PSI 27.68 271 ePc 13 29.50 -0.7
 WARB 28.41 180 eP 13 24.00 -12.7X
 NNT 28.49 292 eP 13 38.00 0.5
 SSE 29.00 350 P 13 44.00 2.0

1.0s 0.05nm 2.1mb X
 NST 29.25 298 eP 13 44.00 -0.3
 CTA 29.50 140 iPd 13 46.00 -0.6
 MEKA 29.88 195 eP 13 50.00 0.0

0.4s 35.00nm 5.5mb
 KUMJ 30.24 7 eP 13 52.10 -0.9
 WHN 30.31 339 P 13 53.50 -0.2
 NJ2 30.39 347 Pd 13 55.00 0.7
 GYA 30.65 323 P 13 57.00 0.1
 BDT 30.89 300 eP 13 58.80 -0.1
 0.8s 77.80nm 5.5mb
 CHTO 31.64 303 e(P) 14 04.10 -1.4

0.8s 31.30nm 5.2mb
 KMI 32.26 317 Pc 14 11.00 -0.1
 MRWA 33.05 197 eP 14 17.50 -0.1
 FORR 33.09 178 eP 14 15.00 -3.0X
 COOL 33.51 189 eP 14 21.00 -0.6
 TSRJ 34.10 14 P 14 26.30 -0.4
 BAL 34.16 195 eP 14 27.00 -0.3
 IIDJ 34.54 16 P 14 31.40 0.8
 TIA 34.78 346 Pd 14 31.60 -0.9
 KLB 34.84 193 eP 14 33.00 -0.1
 CHJJ 35.39 17 P 14 35.70 -2.0
 MTMJ 35.55 16 P 14 37.30 -1.9
 XAN 35.56 334 Pc 14 38.40 -0.9
 MUN 35.59 195 eP 14 39.00 -0.5
 CD2 35.66 325 eP 14 40.40 0.2
 RMO 35.80 145 eP 14 40.00 -1.4

0.8s 16.05nm 5.2mb
 NWA0 36.24 193 eP 14 45.00 0.0
 NIIJ 36.50 17 P 14 46.00 -1.0
 DL2 36.62 353 eP 14 48.00 -0.1
 STK 36.93 159 P 14 45.00 -5.8X

0.8s 14.50nm 5.8mb
 RKG 37.39 193 eP 15 00.00 5.4X
 TIY 37.48 341 eP 14 54.40 -1.1
 YAMJ 37.67 17 eP 14 56.50 -0.4
 CMS 38.33 153 eP 15 02.00 -0.5
 BJI 38.65 347 eP 15 04.50 -0.6
 ADE 38.86 164 eP 15 07.10 0.1
 0.8s 134.33nm 5.8mb
 BRS 38.88 141 Pc 15 04.40 -2.9X
 SNY 39.35 356 Pc 15 10.20 -0.7
 LZH 39.60 331 eP 15 13.00 -0.3

1.5s 0.31nm 2.9mb X
 AOMJ 39.97 16 eP 15 15.70 -0.4
 HHC 40.63 342 eP 15 21.80 0.2
 COO 40.69 146 eP 15 22.00 -0.2
 CN2 41.24 359 eP 15 27.00 0.6
 MRRJ 41.90 16 eP 15 32.70 0.9
 BWA 41.97 153 eP 15 33.50 0.9
 MDJ 42.12 3 Pd 15 34.00 0.3
 HOOJ 42.51 18 eP 15 38.30 1.4
 CAN 42.98 153 iP 15 40.90 0.1
 CNB 43.14 152 eP 15 42.00 -0.2
 LSA 43.25 313 P 15 44.00 0.3
 TOO 43.45 158 eP 15 44.00 -0.6
 KUSJ 43.62 19 eP 15 46.10 0.3
 GTA 44.18 330 eP 15 50.00 -0.7

Z 25s 9.20um 5.6mszX
 E 14s 3.10um

PP 17 35.40
 DZM 45.87 124 iPc 16 03.60 -0.7
 GUN 46.43 307 P 16 06.60 -2.4
 PKI 46.66 306 P 16 08.90 -2.0
 KKN 46.86 307 P 16 10.60 -1.7
 DMN 46.92 306 P 16 11.80 -1.0
 GKN 47.46 307 P 16 15.20 -1.8
 KOD 49.42 281 eP 16 31.30 -1.2
 HYB 49.48 291 iPc 16 31.50 -1.0
 1.0s 150.00nm 6.0mb
 GBA 49.86 286 P 16 33.60 -1.8
 GBA 49.86 286 Pc 16 29.20 -6.2X
 0.6s 5.80nm 4.8mb

WMO 53.75 326 eP 17 03.50 -0.9
 NDI 53.77 304 eP 17 02.00 -2.6
 POO 54.09 291 iPc 17 05.80 -1.3
 KSH 58.88 316 eP 17 42.00 0.8
 MSZ 59.57 147 P 17 45.20 -0.4
 MHI 70.24 308 eP 18 55.00 -0.1
 0.7s 71.23nm 5.8mb
 AVY 80.28 250 iPc 19 53.30 0.5
 TAB 80.89 308 eP 19 57.00 1.4
 SLY 81.39 305 ePd 20 08.00 10.0X
 TTA 82.13 27 eP 20 02.50 1.1
 KDC 83.11 32 eP 20 06.90 0.5
 MSL 83.33 306 ePd 20 09.00 0.9
 IMA 83.63 24 iPc 20 10.50 1.3
 1.0s 65.00nm 5.7mb

PMR 85.16 29 eP 20 16.80 0.1
 1.2s 136.70nm 6.0mb
 FBA 85.96 25 P 20 19.60 -1.1
 NPA 88.08 255 iP 20 33.20 1.3
 HRI 89.44 303 iPd 20 41.70 3.4X
 JVI 89.83 302 iPd 20 44.00 4.1X
 NAI 89.88 269 eP 20 43.00 2.2
 RMN 90.52 300 iPd 20 45.00 1.7
 INK 91.43 21 eP 20 46.00 -0.6
 SOD 91.65 338 eP 20 50.00 2.4

0.8s 16.10nm 5.5mb
 KJF 91.74 334 iP 20 47.60 -0.5
 0.8s 16.10nm 5.5mb
 SUF 92.68 333 eP 20 51.00 -1.4
 MBC 93.27 13 eP 20 55.00 0.1
 NUR 93.81 331 eP 21 14.00 16.4X
 VRI 95.18 316 ePc 21 05.00 0.7
 MLR 95.78 316 ePd 21 07.50 0.2
 BUL 98.34 250 iPd 21 19.00 -0.2
 0.8s 7.46nm 5.3mb
 DAG 98.57 352 iPd 21 17.70 -1.3
 0.8s 8.96nm 5.3mb
 NB2 99.93 333 P 21 23.80 -1.8
 0.9s 4.00nm 4.9mb

YKA 100.75 24 Pd diff 21 29.90 0.8
 GOL 116.63 43 PKP 26 26.10 0.2
 RSON 116.78 27 PKP 26 24.00 -1.5
 ALO 117.99 48 ePKP 26 29.00 0.4
 SCH 121.91 9 ePKP 26 36.00 0.9
 TUL 125.07 42 ePKP 26 42.50 0.7
 1.2s 10.90nm
 RLO 125.43 41 ePKP 26 42.80 0.3
 KOGH 126.28 279 ePKP 26 46.00 1.1
 KUK 126.39 279 ePKP 26 45.50 0.4
 FVM 127.20 37 PKP 26 45.60 -0.3
 PWLA 130.61 38 PKP 26 52.10 -0.3
 KIC 130.67 280 PKP 26 54.10 0.9
 TIC 130.90 281 PKP 26 54.50 0.9
 LIC 130.98 280 PKP 26 54.68 0.9
 JSC 135.07 33 PKP 27 01.80 0.9
 LHS 135.17 33 PKP 27 02.60 1.5
 SAN 145.12 154 ePKP 27 19.50 0.4

PEL 145.38 154 iPKPc 27 20.00 0.4
 JACH 145.81 154 ePKP 27 21.90 1.5
 MDZ 146.38 156 iPKPd 27 24.10 2.8X
 CNCB 159.72 136 PKP 27 43.50 2.6X
 LPB 159.82 135 PKP 27 44.00 3.2X
 PP 32 04.50
 Lg 36 50.00
 ZOBO 159.98 134 PKP 27 43.00 1.8
 1.2s 11.82nm
 S.D. = 1.1 on 125 of 145 obs.

FEB 10, 1989 12h 12m 05.20 ± 0.44s
 2.254 N ± 3.1km 126.598 E ± 4.4km
 DEPTH = 46.5 ± 4.0 km
 5.6mb (29 obs.)

MOLUCCA PASSAGE (266)

DAV 4.91 348 eP 13 21.00 2.6X
 AAI 6.11 165 eP 13 40.00 4.6X
 TSM 8.73 283 ePc 14 16.10 4.3X
 0.8s 618.50nm 6.7mb X
 TLE 9.96 142 ePc 14 31.00 2.3X
 0.2s 9.00nm 5.6mb
 KKM 11.02 290 ePd 14 46.00 2.8
 1.0s 224.40nm 6.3mb
 KHKI 15.21 226 ePd 15 46.00 7.4X
 BAG 15.26 338 eP 15 39.00 -0.5
 PIP 17.01 340 ePd 16 01.40 -0.1
 TRT 17.08 234 ePd 16 04.00 1.6
 1.0s 55.40nm 4.6mb

KNA 18.02 173 eP 16 12.00 -2.0
 e 19 55.00
 MNDI 18.97 116 eP 16 28.00 2.1
 GUMO 21.29 57 eP 16 40.90 -9.2X
 0.4s 56.61nm 5.3mb
 GUA 21.30 57 eP 16 49.20 -1.0
 0.5s 61.97nm 5.2mb
 KGM 23.26 270 eP 17 14.00 4.4X
 WB5 23.28 161 eP 17 00.20 -9.6X
 eS 21 18.20
 HKC 23.30 330 Pd 17 10.40 0.5
 WB2 23.34 161 eP 17 00.20 -10.1X
 eS 21 18.20

OIZ 23.39 317 P 17 11.60 0.8
 MCO 23.47 328 eP 17 12.30 0.8
 PMG 23.53 120 eP 17 11.00 -1.2
 1.0s 88.00nm 5.2mb
 QZH 23.84 342 eP 17 15.00 -0.1
 MBL 24.19 196 iPd 17 18.70 0.1
 0.5s 21.00nm 4.9mb
 IPM 25.63 276 ePd 17 33.00 0.6
 OIS 26.01 151 eP 17 35.00 -0.8
 ASPA 26.73 165 eP 17 40.90 -1.5
 eS 22 16.60
 eScS 27 00.30

NANU 26.93 203 iPd 17 44.30 0.1
 0.4s 12.00nm 4.9mb
 WARB 28.27 180 iPc 17 49.40 -6.9X
 0.6s 162.00nm 5.8mb
 NNT 28.51 292 eP 17 59.00 0.4
 SSE 29.14 350 P 18 04.50 0.4
 1.7s 0.19nm 2.5mb X
 CTA 29.41 140 iPc 18 05.80 -0.9
 1.0s 80.00nm 5.4mb
 MEKA 29.74 195 iPc 18 09.00 -0.5
 0.4s 27.00nm 5.3mb

WHN 30.43 339 eP 18 12.50 -3.1X
 NJ2 30.52 347 Pd 18 17.50 1.1
 GYA 30.75 323 P 18 18.80 0.2
 CHTO 31.69 303 e(P) 18 26.50 -0.4
 0.8s 78.88nm 5.6mb
 KMI 32.34 317 Pc 18 32.00 -0.7
 FORR 32.95 178 iPd 18 36.50 -1.1
 0.8s 1035.00nm 6.7mb X
 COOL 33.36 189 iPd 18 40.30 -1.0
 BAL 34.01 195 eP 18 47.00 0.1
 IIDJ 34.69 16 P 18 51.80 -0.9
 KLB 34.69 193 eP 18 52.00 -0.7
 TIA 34.91 347 Pd 18 53.70 -0.8
 MUN 35.44 195 eP 18 58.00 -1.1
 CHJJ 35.53 17 P 18 57.80 -2.0
 XAN 35.67 334 Pd 19 00.10 -1.0
 MTMJ 35.70 16 P 19 00.30 -1.0
 RMO 35.70 145 eP 18 59.00 -2.4
 0.6s 45.00nm 5.6mb
 e 21 30.00
 KAKJ 36.04 19 P 19 01.70 -2.4

| | | | | | | | | | | | | | | | | | | |
|------|-------|----------|------|----------|---------|------|------------|--------------------|--------|----------|----------|------|-------|----------|-----|----------|----------|------|
| NWAO | 36.09 | 193 | eP | 19 05.00 | 0.4 | YKA | 100.89 | 24 | Pd | diff | 25 51.50 | 1.0 | COOL | 33.56 | 189 | iPc | 23 28.60 | 1.3 |
| NIIJ | 36.64 | 17 | P | 19 07.50 | -1.6 | EDM | 105.65 | 33 | ePKP | 30 25.00 | 0.0 | TSRJ | 34.04 | 14 | P | 23 31.40 | 0.1 | |
| DL2 | 36.76 | 354 | iPd | 19 10.00 | -0.1 | LRM | 109.36 | 39 | ePKP | 30 33.40 | 0.8 | BAL | 34.21 | 195 | eP | 23 34.00 | 1.1 | |
| STK | 36.81 | 158 | eP | 19 10.00 | -0.6 | FFC | 110.59 | 28 | ePKP | 30 34.00 | -0.3 | IIOJ | 34.49 | 16 | eP | 23 34.60 | -0.6 | |
| | 0.7s | 146.00nm | | | 6.0mb | | 1.0s | 12.00nm | | | | | TIA | 34.72 | 346 | eP | 23 36.20 | -1.0 |
| RKG | 37.24 | 193 | eP | 19 19.00 | 4.8X | BW06 | 112.54 | 41 | PKP | 30 39.00 | 0.3 | KLB | 34.89 | 193 | eP | 23 39.00 | 0.3 | |
| TIY | 37.61 | 341 | Pd | 19 16.90 | -0.5 | GOL | 116.75 | 43 | PKP | 30 47.00 | 0.1 | CHJJ | 35.33 | 17 | P | 23 40.90 | -1.5 | |
| Z | 28s | 15.60um | | | 5.7MsZx | RSON | 116.92 | 27 | PKP | 30 46.00 | -0.5 | MTMJ | 35.49 | 16 | P | 23 43.20 | -0.7 | |
| YAMJ | 37.81 | 17 | P | 19 19.50 | 0.5 | ALO | 118.11 | 48 | ePKP | 30 49.00 | -0.5 | XAN | 35.51 | 334 | P | 23 42.10 | -1.9 | |
| CMS | 38.21 | 153 | eP | 19 21.00 | -1.4 | SCH | 122.06 | 9 | ePKP | 30 56.00 | -0.2 | CD2 | 35.62 | 325 | eP | 23 43.80 | -1.2 | |
| ADE | 38.73 | 164 | iPc | 19 26.40 | -0.4 | MEO | 123.89 | 45 | ePKP | 31 00.80 | 0.4 | MUN | 35.65 | 195 | eP | 23 46.00 | 0.9 | |
| | 0.8s | 238.81nm | | | 6.1mb | | 1.0s | 9.00nm | | | | KAKJ | 35.84 | 19 | P | 23 45.50 | -1.2 | |
| BJI | 38.78 | 347 | P | 19 17.20 | -9.9X | SIO | 124.94 | 42 | e(PKP) | 31 02.80 | 0.5 | RMQ | 35.84 | 145 | eP | 23 47.00 | 0.2 | |
| BRS | 38.79 | 141 | Pc | 19 27.10 | -0.3 | TUL | 125.19 | 42 | ePKP | 31 03.20 | 0.4 | | | e | | 26 15.00 | | |
| | | e | | 19 33.00 | | | 1.2s | 13.20nm | | | | NWAO | 36.30 | 193 | eP | 23 53.00 | 2.4 | |
| | | i | | 19 41.00 | | LNO | 125.19 | 42 | ePKP | 31 02.90 | 0.2 | NIIJ | 36.44 | 17 | eP | 23 50.90 | -0.8 | |
| OFUJ | 39.15 | 19 | eP | 19 30.20 | 0.1 | RLO | 125.56 | 41 | e(PKP) | 31 03.20 | -0.4 | DL2 | 36.57 | 353 | eP | 23 53.00 | 0.3 | |
| SNY | 39.49 | 356 | Pc | 19 33.00 | 0.1 | KUK | 126.39 | 279 | ePKP | 31 06.50 | 0.7 | STK | 36.98 | 159 | eP | 23 55.00 | -1.3 | |
| LZH | 39.71 | 331 | P | 19 35.00 | 0.0 | FVM | 127.33 | 37 | PKP | 31 06.70 | -0.2 | | | e | | 23 57.00 | | |
| | 1.0s | 0.19nm | | | 2.9mb X | ELC | 128.51 | 37 | PKP | 31 09.50 | 0.4 | TIY | 37.43 | 341 | eP | 24 00.00 | -0.2 | |
| AOMJ | 40.12 | 16 | eP | 19 39.80 | 1.7 | KIC | 130.67 | 280 | PKP | 31 14.90 | 1.0 | RKG | 37.44 | 193 | eP | 24 06.00 | 5.8X | |
| COO | 40.59 | 146 | iPd | 19 42.20 | 0.0 | PWLA | 130.74 | 38 | PKP | 31 13.00 | -0.5 | YAMJ | 37.61 | 17 | eP | 24 02.00 | 0.5 | |
| HHC | 40.75 | 342 | P | 19 43.60 | 0.1 | LIC | 130.97 | 280 | PKP | 31 15.60 | 1.1 | CMS | 38.37 | 153 | eP | 24 08.00 | 0.0 | |
| CN2 | 41.38 | 359 | P | 19 48.00 | -0.4 | GBTN | 132.54 | 34 | PKP | 31 16.60 | -0.3 | BJI | 38.60 | 347 | eP | 24 09.50 | -0.3 | |
| BWA | 41.85 | 153 | eP | 19 53.30 | 0.8 | TKL | 132.80 | 34 | PKP | 31 17.20 | -0.2 | ADE | 38.91 | 164 | eP | 24 12.10 | -0.5 | |
| MRRJ | 42.04 | 16 | eP | 19 54.10 | 0.2 | TACH | 144.72 | 154 | iPKPd | 31 38.50 | -0.6 | BRS | 38.92 | 141 | Pc | 24 10.90 | -1.8 | |
| HOJ | 42.66 | 18 | eP | 20 00.60 | 1.7 | SAN | 145.01 | 154 | ePKP | 31 39.40 | -0.3 | OFUJ | 38.95 | 19 | eP | 24 13.00 | 0.3 | |
| CAN | 42.86 | 153 | eP | 20 01.00 | 0.2 | PEL | 145.26 | 154 | iPKPc | 31 40.50 | 0.4 | SNY | 39.29 | 356 | eP | 24 16.00 | 0.4 | |
| CNB | 43.03 | 152 | iPc | 20 02.50 | 0.4 | FCH | 145.27 | 155 | iPKPd | 31 41.30 | 0.8 | LZH | 39.55 | 330 | P | 24 18.50 | 0.5 | |
| LSA | 43.32 | 313 | Pc | 20 05.30 | 0.2 | JACH | 145.69 | 154 | iPKP | 31 42.50 | 1.5 | | 2.5s | 0.35nm | | 2.7mb X | | |
| TOO | 43.32 | 158 | iPd | 20 05.60 | 1.1 | MDZ | 146.26 | 156 | iPKPc | 31 44.30 | 2.5X | AOMJ | 39.92 | 16 | eP | 24 27.50 | 6.7X | |
| KUSJ | 43.76 | 19 | eP | 20 07.70 | -0.2 | | S.D. = 1.1 | on 127 of 142 obs. | | | | HHC | 40.57 | 342 | P | 24 26.50 | 0.2 | |
| ASAJ | 44.05 | 17 | eP | 20 10.10 | -0.1 | | | | | | | COO | 40.73 | 146 | eP | 24 26.00 | -1.7 | |
| GTA | 44.29 | 330 | P | 20 12.00 | -0.4 | | | | | | | BTO | 40.84 | 341 | eP | 24 29.20 | 0.7 | |
| | | PP | | 21 57.00 | | | | | | | | CN2 | 41.18 | 359 | Pc | 24 32.40 | 1.3 | |
| DZM | 45.81 | 124 | iP | 20 23.90 | -0.8 | | | | | | | MRRJ | 41.84 | 16 | eP | 24 38.70 | 2.2 | |
| GUN | 46.49 | 307 | P | 20 29.30 | -1.1 | | | | | | | BWA | 42.01 | 153 | eP | 24 38.70 | 0.6 | |
| PKI | 46.72 | 307 | P | 20 30.80 | -1.4 | | | | | | | HOJ | 42.46 | 18 | eP | 24 43.00 | 1.4 | |
| KKN | 46.92 | 307 | P | 20 32.70 | -0.9 | | | | | | | CAN | 43.02 | 153 | eP | 24 45.70 | -0.7 | |
| DMN | 46.98 | 306 | P | 20 32.70 | -1.5 | DAV | 4.72 | 347 | eP | 18 07.00 | 8.2X | LSA | 43.22 | 312 | P | 24 48.90 | 0.4 | |
| GKN | 47.53 | 307 | P | 20 36.80 | -1.5 | AAI | 6.30 | 166 | eP | 18 26.00 | 4.9X | TOO | 43.49 | 158 | eP | 24 52.00 | 1.8 | |
| TAU | 48.69 | 160 | iPd | 20 46.90 | 0.1 | | | | eS | 18 36.50 | | KUSJ | 43.56 | 19 | eP | 24 51.40 | 0.9 | |
| HYB | 49.50 | 291 | iPc | 20 53.00 | -0.6 | TSM | 8.73 | 282 | ePd | 19 01.00 | 5.9X | ASAJ | 43.84 | 17 | eP | 24 53.40 | 0.5 | |
| | 1.0s | 60.00nm | | 5.6mb | | MKS | 10.46 | 223 | ePc | 19 24.50 | 5.6X | GTA | 44.14 | 330 | P | 24 55.30 | -0.2 | |
| GBA | 49.88 | 286 | P | 20 55.40 | -1.0 | KKM | 10.99 | 289 | ePd | 19 31.00 | 4.8X | Z | 29s | 9.20um | | 5.5MsZx | | |
| WMQ | 53.86 | 326 | iPd | 21 25.00 | -0.9 | | 1.0s | 180.10nm | | 6.2mb | | E | 13s | 2.40um | | | | |
| KSH | 58.96 | 316 | eP | 22 03.00 | 0.4 | BAG | 15.09 | 337 | eP | 20 17.00 | -3.9X | GUN | 46.41 | 307 | P | 25 12.90 | -1.1 | |
| MSZ | 59.46 | 147 | P | 22 04.70 | -1.0 | PIP | 16.84 | 340 | ePd | 20 44.50 | 1.5 | PKI | 46.64 | 306 | P | 25 14.60 | -1.2 | |
| | 1.0s | 241.00nm | | 6.3mb | | TRT | 17.23 | 234 | ePc | 20 51.40 | 3.4X | KKN | 46.83 | 307 | P | 25 16.00 | -1.2 | |
| KRP | 60.32 | 137 | eP | 22 11.50 | -0.2 | | 0.5s | 42.50nm | | 4.8mb | | DMN | 46.90 | 306 | P | 25 16.60 | -1.2 | |
| WEL | 61.54 | 140 | P | 22 16.00 | -4.0X | KNA | 18.21 | 173 | eP | 21 01.00 | 0.9 | GKN | 47.44 | 307 | P | 25 20.60 | -1.3 | |
| | 1.0s | 352.00nm | | 6.4mb | | | 0.7s | 184.00nm | | 5.3mb | | HYB | 49.47 | 291 | eP | 25 36.00 | -1.6 | |
| QUE | 62.82 | 303 | eP | 22 28.00 | -1.0 | MNDI | 19.03 | 117 | eP | 21 14.00 | 3.7X | | 1.2s | 157.10nm | | 5.9mb | | |
| MHI | 70.30 | 308 | iPc | 23 16.00 | -0.3 | GUMO | 21.15 | 57 | eP | 21 31.80 | -0.9 | GBA | 49.86 | 286 | P | 25 38.90 | -1.7 | |
| | 0.9s | 110.92nm | | 5.8mb | | | 1.0s | 180.00nm | | 5.4mb | | WMQ | 53.71 | 326 | P | 26 09.30 | 0.0 | |
| AVY | 80.21 | 250 | iPc | 24 13.90 | 0.7 | GUA | 21.16 | 58 | eP | 21 32.30 | -0.6 | MSZ | 59.61 | 147 | P | 26 52.00 | 0.9 | |
| TAB | 80.95 | 308 | P | 24 18.00 | 1.3 | | 0.7s | 82.19nm | | 5.2mb | | QUE | 62.75 | 303 | eP | 27 11.80 | -1.1 | |
| TTA | 82.27 | 27 | P | 24 24.30 | 1.3 | HKC | 23.15 | 329 | Pc | 21 53.30 | 0.7 | MHI | 70.21 | 308 | iPc | 28 00.10 | -0.1 | |
| | 0.8s | 33.62nm | | 5.4mb | | QIZ | 23.27 | 316 | eP | 21 54.60 | 0.8 | | 1.0s | 140.00nm | | 6.0mb | | |
| MAW | 82.33 | 200 | eP | 24 24.50 | 1.4 | MCO | 23.32 | 328 | eP | 21 54.30 | 0.1 | AVY | 80.31 | 250 | eP | 28 58.78 | 0.6 | |
| KDC | 83.24 | 32 | P | 24 29.00 | 1.1 | PMG | 23.60 | 120 | eP | 21 56.00 | -1.0 | TAB | 80.86 | 308 | eP | 29 02.00 | 1.3 | |
| | 1.0s | 78.00nm | | 5.7mb | | QZH | 23.67 | 342 | eP | 21 57.90 | 0.3 | SLY | 81.37 | 305 | ePd | 29 04.50 | 1.3 | |
| MSL | 83.39 | 306 | ePd | 24 29.50 | 0.3 | Z | 28s | 17.80um | | 5.4MsZx | | TTA | 82.07 | 27 | eP | 29 07.30 | 0.9 | |
| IMA | 83.78 | 24 | P | 24 32.20 | 1.4 | N | 28s | 19.30um | | | | BHD | 82.18 | 303 | eP | 29 07.00 | -0.5 | |
| PMR | 85.30 | 29 | P | 24 38.00 | -0.2 | E | 28s | 14.10um | | | | MAW | 82.53 | 200 | eP | 29 11.00 | 2.4 | |
| | 1.0s | 67.50nm | | 5.8mb | | MBL | 24.40 | 196 | eP | 22 04.00 | -0.7 | KDC | 83.06 | 32 | P | 29 13.40 | 2.0 | |
| FBA | 86.10 | 25 | P | 24 40.70 | -1.5 | | 0.4s | 20.00nm | | 5.0mb | | | 1.2s | 106.06nm | | 5.8mb | | |
| PMO | 86.24 | 105 | iP | 24 46.60 | 2.9 | IPM | 25.65 | 275 | eP | 22 16.20 | -0.5 | MSL | 83.31 | 306 | ePd | 29 13.00 | -0.3 | |
| | 1.2s | 45.00nm | | 5.6mb | | QIS | 26.17 | 152 | eP | 22 19.00 | -2.4 | IMA | 83.58 | 24 | eP | 29 15.30 | 1.1 | |
| TPT | 86.50 | 105 | iP | 24 47.70 | 2.7 | NANU | 27.13 | 203 | eP | 22 30.00 | -0.2 | PMR | 85.10 | 29 | eP | 29 21.70 | 0.0 | |
| | 1.2s | 40.00nm | | 5.5mb | | | 0.3s | 10.00nm | | 4.9mb | | | 1.1s | 84.40nm | | 5.9mb | | |
| VAH | 86.51 | 105 | iP | 24 47.60 | 2.6 | WARB | 28.47 | 180 | eP | 22 35.00 | -7.4X | FBA | 85.91 | 25 | P | 29 25.70 | 0.0 | |
| | 1.2s | 45.00nm | | 5.6mb | | SSE | 28.95 | 350 | Pc | 22 46.50 | -0.1 | TOA | 86.53 | 28 | eP | 29 30.10 | 1.2 | |
| RUV | 86.74 | 105 | iP | 24 48.80 | 2.6 | | 1.5s | 0.10nm | | 2.3mb X | | NPA | 88.11 | 255 | iP | 29 38.00 | 0.7 | |
| | 1.2s | 45.00nm | | 5.6mb | | CTA | 29.54 | 140 | iPd | 22 50.80 | -1.3 | KVT | 88.85 | 311 | iP | 29 41.40 | 0.9 | |
| NPA | 88.02 | 255 | iP | 24 53.70 | 1.3 | MEKA | 29.94 | 195 | eP | 22 54.00 | -1.6 | KEV | 91.05 | 340 | eP | 29 49.00 | -1.1 | |
| INK | 91.58 | 21 | iPc | 25 00.10 | 0.1 | | 0.4s | 52.00nm | | 5.7mb | | INK | 91.38 | 21 | eP | 29 51.00 | -0.6 | |
| SPA | 92.24 | 180 | e(P) | 25 12.10 | 0.8 | WHN | 30.26 | 339 | P | 22 58.00 | -0.3 | SOD | 91.60 | 338 | eP | 29 52.00 | -0.7 | |
| | 1.0s | 30.00nm | | 5.7mb | | NJ2 | 30.34 | 347 | Pd | 22 59.00 | 0.0 | KJF | 91.69 | 334 | iP | 29 52.20 | -1.0 | |
| VRI | 95.27 | 316 | ePd | 25 26.00 | 0.5 | GYA | 30.61 | 323 | P | 23 02.60 | 0.9 | | 0.7s | 13.30nm | | 5.5mb | | |
| PTZ | 95.65 | 256 | iPc | 25 28.50 | 0.6 | BDT | 30.87 | 300 | eP | 23 04.00 | 0.2 | SUF | 92.64 | 333 | eP | 30 00.00 | 2.5 | |
| MLR | 95.86 | 316 | iPd | 25 28.50 | 0.1 | | 0.8s | 93.40nm | | 5.6mb | | MBC | 93.21 | 13 | eP | 30 00.00 | 0.0 | |
| BUL | 98.27 | 250 | iPc | 25 39.80 | 0.1 | CHTO | 31.61 | 303 | iPc | 23 09.80 | -0.6 | NUR | 93 | | | | | |

10d 12h

DAG 98.51 352 iPd 30 23.00 -1.1
 VAY 98.91 312 eP 30 23.70 -2.9
 NB2 99.88 334 P 30 28.80 -1.9
 0.8s 4.60nm 5.1mb
 YKA 100.69 24 Pd diff 30 17.10 -17.0X
 KMZ 101.07 257 ePd diff 30 29.00 -8.1X
 GOL 116.58 43 PKP 35 31.00 -0.2
 RSON 116.73 27 PKP 35 29.70 -1.0
 ALO 117.94 48 ePKP 35 35.00 1.2
 FVM 127.15 37 PKP 35 52.00 0.9
 ELC 128.33 37 PKP 35 53.50 0.1
 PWLA 130.56 38 PKP 35 57.40 -0.3
 TKL 132.61 34 PKP 36 01.80 0.2
 SAN 145.17 154 ePKP 36 26.50 2.0
 PEL 145.42 154 iPKPc 36 24.60 -0.4
 FCH 145.44 155 ePKPd 36 28.00 2.6X
 JACH 145.85 154 ePKP 36 28.90 3.1X
 MDZ 146.42 156 iPKPd 36 28.50 1.8
 S.D. = 1.1 on 112 of 127 obs.

FEB 10, 1989 12h 27m 44.34 ± 0.20s
 2.376 N ± 3.7km 126.648 E ± 6.1km
 DEPTH = 33.0km (normal)
 5.2mb (13 obs.)

MOLUCCA PASSAGE (266)

TLE 10.03 143 ePc 30 13.00 3.8X
 KNA 18.13 173 eP 31 55.00 -0.4
 QIZ 23.34 316 eP 32 53.20 2.5
 WB5 23.38 161 eP 32 51.00 -0.1
 WRA 23.43 162 Pc 32 51.20 -0.4
 0.5s 19.70nm 4.9mb
 WB2 23.44 162 eP 32 51.00 -0.7
 MBL 24.32 196 eP 33 01.00 0.7
 0.5s 13.00nm 4.7mb
 ASPA 26.83 165 iPc 33 23.10 -0.7
 0.6s 58.00nm 5.4mb
 eS 38 06.00
 NANU 27.06 203 iPc 33 26.80 1.0
 0.4s 9.00nm 4.8mb
 WARB 28.39 180 iPd 33 32.00 -5.9X
 CTA 29.47 140 iPd 33 47.20 -0.5
 1.2s 21.88nm 4.8mb
 MEKA 29.87 195 iPd 33 51.70 0.5
 CHTO 31.67 303 iPd 34 07.10 0.0
 0.7s 16.68nm 5.0mb
 MRWA 33.03 197 eP 34 19.00 0.1
 FORR 33.07 178 eP 34 19.00 -0.1
 COOL 33.49 189 eP 34 23.00 0.1
 BAL 34.14 195 eP 34 29.00 0.5
 KLB 34.82 193 eP 34 52.00 17.7X
 MUN 35.57 195 eP 34 41.00 0.3
 CD2 35.69 325 eP 34 41.40 -0.4
 NWA0 36.22 193 eP 34 47.00 0.8
 STK 36.91 159 eP 34 51.00 -1.0
 RKG 37.37 193 eP 35 01.50 5.7X
 TIY 37.51 341 Pc 34 56.90 -0.2
 CMS 38.30 153 eP 35 03.00 -0.7
 BJI 38.68 347 P 35 07.00 0.3
 ADE 38.83 164 iPd 35 08.80 0.6
 0.8s 59.70nm 5.4mb
 BRS 38.85 141 P 35 06.00 -2.4
 SNY 39.37 356 eP 35 12.80 0.3
 HHC 40.65 342 P 35 23.20 0.0
 COO 40.66 146 iPd 35 23.50 0.1
 CN2 41.26 359 eP 35 32.00 4.0X
 BWA 41.94 153 eP 35 35.20 1.4
 CAN 42.95 153 eP 35 42.40 0.4
 GTA 44.21 330 P 35 52.00 -0.3
 Z 30s 5.60um 5.3mszX
 E 14s 2.00um

GUN 46.46 307 P 36 10.20 -0.5
 PKI 46.69 306 P 36 11.60 -0.9
 0.6s 12.00nm 5.0mb
 KKN 46.89 307 P 36 13.20 -0.7
 0.6s 19.00nm 5.3mb
 DMN 46.95 306 P 36 13.80 -0.7
 0.8s 32.00nm 5.4mb
 GKN 47.49 307 P 36 17.80 -0.8
 0.7s 18.00nm 5.2mb
 KOD 49.45 281 eP 36 34.00 -0.1
 HYB 49.51 291 eP 36 33.50 -0.7
 GBA 49.89 286 P 36 36.00 -1.1
 WMO 53.78 326 P 37 06.00 0.0
 MSZ 59.54 147 eP 37 47.00 0.1
 MHI 70.27 308 eP 38 56.00 -0.8

AVY 80.30 250 eP 39 55.50 1.1
 TTA 82.14 27 eP 40 03.70 0.7
 KDC 83.12 32 P 40 07.50 -0.5
 IMA 83.65 24 ePc 40 11.90 1.0
 1.0s 31.30nm 5.4mb
 PMR 85.17 29 eP 40 18.20 -0.1
 1.2s 39.10nm 5.5mb
 INK 91.44 21 eP 40 48.00 -0.2
 MBC 93.28 13 eP 40 56.00 -0.6
 YKA 100.76 24 Pd diff 41 32.50 1.8
 GOL 116.63 43 PKP 46 27.50 0.0
 RSON 116.79 27 PKP 46 26.50 -0.6
 ALO 117.99 48 ePKP 46 30.00 -0.2
 ELC 128.38 37 PKP 46 50.00 0.2
 PWLA 130.61 38 PKP 46 54.30 0.2
 TKL 132.67 34 PKP 46 58.70 0.7
 ZOBO 159.95 134 PKP 47 44.00 1.2
 S.D. = 0.8 on 56 of 61 obs.

* FEB 10, 1989 12h 56m 16.73 ± 0.73s
 2.360 N ± 15.3km 126.937 E ± 20.8km
 DEPTH = 33.0km (normal)
 4.7mb (4 obs.)

MOLUCCA PASSAGE (266)

KNA 18.08 174 eP 00 27.00 -0.2
 WB5 23.27 162 eP 01 22.60 0.1
 WB2 23.33 162 eP 01 22.60 -0.5
 QIS 25.94 152 eP 01 49.00 1.0
 ASPA 26.74 166 iPc 01 55.40 0.0
 0.4s 15.00nm 5.0mb
 WARB 28.38 181 eP 02 03.50 -6.7X
 LOE 28.92 303 eP 02 15.40 0.2
 CHTO 31.92 303 eP 02 41.70 0.0
 0.8s 5.49nm 4.5mb
 BRS 38.66 142 iPd 03 38.80 -0.4
 GUN 46.70 307 P 04 45.00 0.0
 0.6s 18.00nm 5.2mb
 PKI 46.93 306 P 04 46.40 -0.4
 KKN 47.13 307 P 04 48.10 -0.1
 DMN 47.19 306 P 04 49.00 0.2
 GKN 47.73 306 P 04 52.70 -0.2
 GBA 50.17 286 P 05 12.00 0.4
 0.8s 3.10nm 4.4mb
 S.D. = 0.4 on 14 of 15 obs.

FEB 10, 1989 12h 59m 30.57 ± 0.15s
 2.429 N ± 2.8km 126.700 E ± 3.8km
 DEPTH = 33.0km (normal)
 5.6mb (33 obs.)

MOLUCCA PASSAGE (266)

DAV 4.76 346 eP 00 44.60 2.7
 AAI 6.26 166 eP 01 10.00 7.0X
 TSM 8.80 282 ePd 01 43.00 4.5X
 TLE 10.04 143 ePd 01 59.50 3.9X
 0.5s 9.50nm 5.3mb
 MKS 10.48 224 ePd 02 04.10 2.4
 PPR 10.77 313 ePc 02 07.00 1.4
 1.0s 69.00nm 5.8mb
 KKM 11.05 289 ePd 02 12.50 2.9
 1.0s 207.80nm 6.3mb
 KUPT 12.87 194 ePc 02 46.00 12.0X
 1.0s 360.60nm
 JAY 14.84 109 ePd 03 04.00 4.1X
 BAG 15.14 337 eP 03 03.00 -1.0
 KHKI 15.40 226 ePc 03 13.90 6.7X
 e 09 12.00
 MTN 15.80 164 eP 03 11.00 -1.4
 PIP 16.89 340 ePd 03 26.50 0.4
 TRT 17.27 234 iPd 03 32.40 1.5
 0.8s 153.20nm 5.2mb
 KNA 18.18 174 eP 03 42.00 -0.2
 e 06 26.00
 MNDI 18.96 117 eP 03 53.00 1.0
 GUMO 21.11 57 eP 04 13.50 -1.4
 1.0s 136.00nm 5.3mb
 PJG 21.11 57 eP 04 14.00 -0.9
 GUA 21.12 58 eP 04 14.00 -1.0
 1.1s 243.04nm 5.5mb
 HKC 23.20 329 Pd 04 35.50 -0.1
 QIZ 23.33 316 eP 04 36.60 -0.3
 N 15s 3.90um
 E 18s 5.50um
 KGM 23.37 269 ePc 04 41.00 3.7X
 MCO 23.37 328 eP 04 37.00 -0.3
 WB5 23.41 162 iPc 04 37.10 -0.6

WRA 23.47 162 Pc 04 38.00 -0.2
 0.8s 214.10nm 5.7mb
 WB2 23.47 162 iPc 04 37.10 -1.1
 QZH 23.71 341 eP 04 40.60 0.1
 Z 28s 26.80um 5.6mszX
 N 28s 26.80um
 E 28s 23.80um
 S 08 48.00
 GZH 24.28 329 iPd 04 45.60 -0.4
 MBL 24.39 196 iPd 04 58.20 11.1X
 0.5s 31.00nm
 IPM 25.71 275 ePd 04 59.70 -0.1
 1.0s 112.20nm 5.4mb
 QIS 26.11 152 iPc 05 02.60 -0.9
 SNG 26.41 281 eP 05 08.70 2.5
 PPI 26.45 264 eP 05 06.50 -0.1
 ASPA 26.87 165 iPc 05 09.70 -0.7
 eS 09 44.40
 NANU 27.13 203 iPd 05 13.30 0.6
 0.3s 13.00nm 5.0mb
 PSI 27.75 271 ePd 05 17.50 -1.0
 0.9s 95.10nm 5.5mb
 WARB 28.44 180 eP 05 18.00 -6.6X
 0.5s 62.00nm 5.6mb
 NNT 28.54 292 eP 05 25.00 -0.6
 SSE 28.98 350 P 05 30.00 0.6
 1.2s 0.10nm 2.4mb X
 Z 28s 6.60um 5.1mszX
 E 19s 4.17um
 S 10 16.00
 NST 29.29 298 eP 05 32.20 -0.2
 CTA 29.48 140 iPc 05 33.80 -0.2
 1.1s 112.66nm 5.5mb
 MEKA 29.93 195 iPc 05 38.00 0.0
 0.4s 39.00nm 5.6mb
 WHN 30.31 339 P 05 41.00 -0.2
 NJ2 30.38 347 Pc 05 43.60 1.8
 GYA 30.67 323 P 05 43.80 -0.9
 BDT 30.93 300 eP 05 46.50 -0.4
 0.8s 109.00nm 5.7mb
 CHG 31.68 303 ePc 05 53.10 -0.4
 1.0s 95.00nm 5.6mb
 CHTO 31.68 303 iPc 05 52.30 -1.2
 1.0s 77.00nm 5.5mb
 SHNJ 31.80 7 eP 05 56.10 1.8
 TKSJ 32.13 12 eP 05 57.20 0.0
 KMI 32.28 316 Pc 05 58.50 -0.5
 WKYJ 32.70 14 eP 06 01.80 -0.4
 MRWA 33.10 197 eP 06 06.00 0.3
 FORR 33.12 178 iPc 06 05.20 -0.6
 0.4s 131.00nm 6.2mb
 YONJ 33.19 10 eP 06 04.00 -2.5
 COOL 33.55 189 eP 06 09.00 -0.6
 TSRJ 34.05 14 eP 06 12.90 -1.0
 TSRJ 34.05 14 P 06 13.90 0.0
 BAL 34.21 195 eP 06 15.00 -0.3
 IIDJ 34.49 16 P 06 19.40 1.6
 TIA 34.76 346 Pd 06 18.90 -1.1
 iPcP 08 53.10
 KLB 34.88 193 eP 06 21.00 -0.1
 CHJJ 35.34 17 P 06 23.40 -1.5
 MTMJ 35.50 15 P 06 25.60 -0.8
 XAN 35.56 334 Pd 06 25.40 -1.5
 MUN 35.64 195 eP 06 27.00 -0.5
 CD2 35.68 325 eP 06 26.50 -1.4
 RMO 35.78 145 eP 06 28.00 -0.8
 e 08 58.00
 KAKJ 35.84 19 P 06 27.20 -2.0
 NWA0 36.29 194 eP 06 33.00 0.0
 NIJJ 36.45 17 P 06 33.20 -1.1
 DL2 36.60 353 Pd 06 36.80 1.3
 STK 36.94 159 iPd 06 38.60 0.2
 e 09 22.00
 RKG 37.43 193 iPd 06 48.30 5.7X
 TIY 37.48 341 Pd 06 42.40 -0.6
 1.0s 0.10nm 2.6mb X
 N 19s 6.40um
 YAMJ 37.61 17 eP 06 44.50 0.4
 CMS 38.32 153 eP 06 49.00 -1.1
 BJI 38.64 347 eP 06 52.00 -0.6
 BRS 38.86 141 Pd 06 48.30 -6.4X
 BRS 38.86 141 Pc 06 52.50 -2.2
 e 07 06.00
 i 07 21.00
 e(S) 12 48.00
 ADE 38.87 164 iP 06 55.70 1.0
 0.8s 283.58nm 6.1mb

| | | | | | | | | | | | | | | | | | | | | |
|------|-------|----------|-----|----|-------|----------|------|------------|--------------------|-----------|----|-------|-------|-------|-------|----------|-----|-------|----------|-------|
| OFUJ | 38.95 | 19 | eP | 06 | 55.60 | 0.3 | NUR | 93.82 | 331 | eP | 12 | 43.00 | -2.5 | OIZ | 23.44 | 317 | eP | 39 | 10.80 | 10.0X |
| SNY | 39.32 | 356 | iPc | 06 | 58.50 | 0.2 | VRI | 95.21 | 316 | ePc | 12 | 52.00 | -0.2 | MBL | 24.11 | 196 | eP | 39 | 08.00 | 0.8 |
| LZH | 39.61 | 330 | eP | 07 | 00.00 | -1.0 | MLR | 95.81 | 316 | ePc | 12 | 55.00 | -0.2 | | 0.4s | 8.00nm | | | 4.6mb | |
| | 1.0s | 0.37nm | | | | 3.1mb X | BUL | 98.42 | 250 | iPc | 13 | 07.20 | -0.2 | GZH | 24.44 | 329 | eP | 39 | 10.00 | -0.4 |
| AOMJ | 39.92 | 16 | eP | 07 | 04.50 | 1.2 | | 1.0s | 20.50nm | | | 5.6mb | | OIS | 25.94 | 151 | iPc | 39 | 24.30 | -0.4 |
| HHC | 40.62 | 342 | P | 07 | 09.00 | -0.2 | DAG | 98.55 | 352 | iPc | 13 | 05.30 | -1.4 | ASPA | 26.65 | 165 | iPc | 39 | 30.50 | -0.7 |
| COO | 40.68 | 146 | eP | 07 | 09.00 | -0.7 | | 1.1s | 35.44nm | | | 5.8mb | | | 0.9s | 91.00nm | | | 5.4mb | |
| BTO | 40.88 | 340 | eP | 07 | 12.00 | 0.7 | VAY | 98.98 | 312 | eP | 13 | 08.00 | -1.3 | | | eS | 44 | 02.50 | | |
| CN2 | 41.21 | 359 | Pd | 07 | 14.00 | 0.2 | SKO | 99.67 | 313 | eP | 13 | 13.00 | 0.4 | NANU | 26.84 | 203 | eP | 39 | 33.50 | 0.6 |
| MRRJ | 41.85 | 16 | eP | 07 | 20.10 | 1.0 | NB2 | 99.93 | 334 | P | 13 | 11.20 | -2.2 | | 0.4s | 8.00nm | | | 4.7mb | |
| BWA | 41.96 | 153 | iPc | 07 | 21.80 | 1.6 | | 0.9s | 8.30nm | | | 5.3mb | | PSI | 27.63 | 272 | ePd | 39 | 40.50 | 0.2 |
| MDJ | 42.09 | 3 | Pc | 07 | 22.00 | 1.0 | OHR | 100.33 | 312 | ePdfff13 | 13 | 5.0 | -2.1X | WARB | 28.18 | 180 | iPd | 39 | 39.10 | -6.0X |
| | Z 30s | 6.81um | | | | 5.4MsZ X | YKA | 100.69 | 24 | ePdfff13 | 17 | 8.0 | 1.2 | LOE | 28.72 | 303 | eP | 39 | 48.80 | -1.3 |
| HOOU | 42.46 | 18 | eP | 07 | 26.10 | 2.0 | YKC | 100.75 | 24 | ePdfff13 | 17 | 5.0 | 0.6 | CTA | 29.36 | 140 | iPc | 39 | 55.30 | -0.5 |
| CAN | 42.97 | 153 | eP | 07 | 28.70 | 0.3 | | 1.0s | 15.00nm | | | 5.5mb | | | 1.0s | 43.00nm | | | 5.1mb | |
| CN8 | 43.13 | 153 | eP | 07 | 29.00 | -0.8 | KSP | 100.85 | 323 | ePdfff13 | 18 | 5.0 | 0.9 | MEKA | 29.65 | 195 | iPc | 39 | 58.60 | 0.3 |
| LSA | 43.28 | 312 | Pc | 07 | 31.80 | 0.2 | PRU | 102.19 | 322 | ePdfff13 | 23 | 8.0 | 0.2 | WHN | 30.51 | 339 | P | 40 | 07.50 | 1.7 |
| | | S | | | | 13 | CLL | 102.67 | 324 | e(Pdfff13 | 27 | 0.0 | 1.3 | GYA | 30.81 | 323 | P | 40 | 08.40 | -0.3 |
| TOO | 43.45 | 158 | eP | 07 | 33.00 | 0.7 | KHC | 103.06 | 322 | ePdfff13 | 27 | 7.0 | 0.1 | CHTO | 31.72 | 303 | iP | 40 | 15.20 | -1.5 |
| KUSJ | 43.56 | 19 | eP | 07 | 34.20 | 1.2 | PNT | 103.34 | 38 | ePdfff13 | 30 | 0.0 | 1.2 | | 0.8s | 13.54nm | | | 4.9mb | |
| ASAJ | 43.85 | 17 | eP | 07 | 36.10 | 0.7 | EDM | 105.44 | 33 | ePKP | 17 | 52.00 | 0.3 | MRWA | 32.81 | 197 | eP | 40 | 27.00 | 0.9 |
| GTA | 44.19 | 330 | Pc | 07 | 37.50 | -0.9 | SES | 108.00 | 35 | ePdfff13 | 51 | 0.0 | 1.5 | FORR | 32.86 | 178 | iPd | 40 | 26.20 | -0.3 |
| | Z 30s | 13.00um | | | | 5.7MsZ X | SES | 108.00 | 35 | ePKP | 17 | 57.00 | 0.3 | COOL | 33.27 | 189 | eP | 40 | 30.00 | -0.1 |
| | E 25s | 12.40um | | | | | LRM | 109.16 | 39 | ePKP | 17 | 59.90 | 0.6 | BAL | 33.92 | 195 | eP | 40 | 36.00 | 0.3 |
| | | PP | | 09 | 24.30 | | FFC | 110.39 | 28 | ePKP | 18 | 01.00 | 0.0 | KLB | 34.60 | 193 | eP | 40 | 42.00 | 0.4 |
| | | S | | 14 | 03.00 | | | 0.8s | 9.00nm | | | | | TIA | 34.99 | 347 | eP | 40 | 47.60 | 2.8 |
| DZM | 45.82 | 124 | iPd | 07 | 51.20 | -0.4 | BW06 | 112.34 | 41 | PKP | 18 | 06.50 | 1.1 | MUN | 35.36 | 195 | eP | 40 | 48.00 | 0.0 |
| GUN | 46.47 | 307 | Pc | 07 | 55.90 | -1.1 | FRB | 113.02 | 7 | ePKP | 18 | 05.00 | -0.6 | RMO | 35.64 | 145 | eP | 40 | 49.00 | -1.5 |
| PKI | 46.70 | 306 | Pc | 07 | 57.20 | -1.6 | GOL | 116.55 | 43 | PKP | 18 | 14.00 | 0.4 | | | e | | 43 | 20.00 | |
| KKN | 46.90 | 307 | Pc | 07 | 58.80 | -1.4 | RSON | 116.72 | 27 | PKP | 18 | 12.70 | -0.5 | XAN | 35.74 | 334 | Pd | 40 | 49.60 | -1.7 |
| DMN | 46.96 | 306 | Pc | 07 | 59.40 | -1.4 | ALQ | 117.92 | 48 | ePKP | 18 | 17.00 | 0.7 | CD2 | 35.82 | 325 | eP | 40 | 51.20 | -0.8 |
| GKN | 47.50 | 307 | Pc | 08 | 03.40 | -1.6 | SCH | 121.87 | 9 | ePKP | 18 | 23.00 | 0.1 | NWAO | 36.01 | 193 | eP | 40 | 44.00 | -9.5X |
| TAU | 48.82 | 160 | eP | 08 | 15.00 | 0.4 | MEO | 123.69 | 45 | ePKP | 18 | 27.40 | 0.3 | STK | 36.74 | 158 | eP | 40 | 58.00 | -1.6 |
| KOD | 49.49 | 281 | eP | 08 | 19.00 | -1.7 | | 1.2s | 23.30nm | | | | | DL2 | 36.84 | 354 | eP | 41 | 01.50 | 1.1 |
| HYB | 49.54 | 291 | iP | 08 | 19.00 | -1.6 | SIO | 124.74 | 42 | ePKP | 18 | 29.10 | 0.1 | RKG | 37.15 | 193 | eP | 41 | 09.00 | 5.9X |
| | 1.0s | 220.00nm | | | | 6.1mb | TUL | 124.99 | 42 | ePKP | 18 | 30.00 | 0.5 | TIY | 37.69 | 342 | eP | 41 | 06.90 | -0.7 |
| GBA | 49.93 | 286 | P | 08 | 21.40 | -2.2 | | 1.0s | 16.70nm | | | | | CMS | 38.14 | 153 | eP | 41 | 11.00 | -0.5 |
| WMQ | 53.77 | 326 | eP | 08 | 51.50 | -0.7 | LNO | 124.99 | 42 | ePKP | 18 | 29.90 | 0.5 | | | e | | 42 | 38.00 | |
| NDI | 53.81 | 304 | eP | 08 | 50.50 | -2.1 | VVO | 125.35 | 43 | ePKP | 18 | 23.90 | -6.3X | ADE | 38.65 | 164 | iPc | 41 | 16.40 | 0.6 |
| | | eS | | 16 | 19.00 | | RLO | 125.36 | 41 | ePKP | 18 | 30.70 | 0.5 | | 0.8s | 126.87nm | | | 5.8mb | |
| POO | 54.14 | 291 | iPd | 08 | 53.60 | -1.6 | KOGH | 126.35 | 279 | ePKP | 18 | 34.00 | 1.1 | BRS | 38.73 | 141 | Pc | 41 | 11.00 | -5.5X |
| KSH | 58.91 | 316 | eP | 09 | 29.50 | 0.4 | KUK | 126.46 | 279 | ePKP | 18 | 33.00 | 0.0 | BRS | 38.73 | 141 | Pc | 41 | 15.00 | -1.5 |
| MSZ | 59.55 | 147 | P | 09 | 33.60 | 0.4 | FVM | 127.13 | 37 | PKP | 18 | 33.30 | -0.3 | | | i | | 41 | 22.00 | |
| KRP | 60.38 | 137 | P | 09 | 39.10 | 0.1 | OLY | 128.07 | 40 | PKP | 18 | 35.30 | -0.2 | | | i | | 41 | 26.50 | |
| WEL | 61.61 | 140 | P | 09 | 45.00 | -2.3 | ELC | 128.31 | 37 | PKP | 18 | 35.40 | -0.4 | BJI | 38.86 | 347 | eP | 41 | 16.50 | -0.9 |
| QUE | 62.81 | 303 | eP | 09 | 54.00 | -1.9 | PWLA | 130.54 | 38 | PKP | 18 | 40.00 | -0.2 | SNY | 39.58 | 356 | eP | 41 | 23.40 | 0.1 |
| ADK | 68.05 | 34 | eP | 10 | 28.30 | -0.6 | KIC | 130.74 | 280 | PKP | 18 | 41.96 | 0.8 | LZH | 39.77 | 331 | eP | 41 | 25.00 | -0.2 |
| MHI | 70.27 | 308 | iPc | 10 | 42.40 | -0.7 | | 1.0s | 26.00nm | | | | | | 1.0s | 0.07nm | | | 2.4mb X | |
| KHI | 70.54 | 305 | ePc | 10 | 42.00 | -2.8 | TIC | 130.97 | 281 | PKP | 18 | 42.18 | 0.6 | COO | 40.53 | 145 | eP | 41 | 32.00 | 0.6 |
| SDN | 78.27 | 34 | eP | 11 | 29.00 | 0.4 | LIC | 131.04 | 280 | PKP | 18 | 42.44 | 0.7 | CN2 | 41.47 | 359 | eP | 41 | 41.00 | 2.2 |
| RYD | 79.99 | 295 | eP | 11 | 38.00 | -0.7 | GBTN | 132.34 | 34 | PKP | 18 | 44.20 | 0.6 | BWA | 41.79 | 153 | iPc | 41 | 43.20 | 1.6 |
| KER | 80.04 | 304 | eP | 11 | 42.00 | 3.1X | TKL | 132.60 | 34 | PKP | 18 | 44.30 | 0.2 | CAN | 42.79 | 153 | iPc | 41 | 50.10 | 0.2 |
| AVY | 80.36 | 250 | eP | 11 | 41.24 | 0.3 | TACH | 144.83 | 154 | iPKPd | 19 | 06.50 | 0.1 | TOO | 43.25 | 158 | iPd | 41 | 55.20 | 1.6 |
| TAB | 80.92 | 308 | eP | 11 | 44.00 | 0.4 | SAN | 145.12 | 154 | ePKPd | 19 | 07.50 | 0.6 | GTA | 44.36 | 330 | eP | 42 | 01.00 | -1.6 |
| SLY | 81.43 | 305 | ePd | 11 | 46.00 | 0.0 | PEL | 145.37 | 154 | iPKPc | 19 | 08.00 | 0.6 | | Z 30s | 4.50um | | | 5.2MsZ X | |
| KMSA | 81.85 | 290 | eP | 11 | 51.00 | 2.4 | FCH | 145.39 | 154 | iPKPd | 19 | 09.50 | 1.7 | | E 26s | 6.40um | | | | |
| TTA | 82.07 | 27 | iPc | 11 | 50.50 | 1.6 | JACH | 145.80 | 154 | iPKP | 19 | 10.00 | 1.8 | GUN | 46.53 | 307 | P | 42 | 19.20 | -1.1 |
| BHD | 82.25 | 303 | eP | 11 | 51.00 | 0.7 | MDZ | 146.37 | 156 | iPKPd | 19 | 11.50 | 2.4X | PKI | 46.76 | 307 | P | 42 | 20.50 | -1.6 |
| KDC | 83.04 | 32 | eP | 11 | 55.00 | 1.1 | CNCB | 159.69 | 136 | PKP | 19 | 31.00 | 2.3X | KKN | 46.96 | 307 | P | 42 | 22.00 | -1.6 |
| MSL | 83.37 | 306 | ePd | 11 | 56.00 | -0.1 | LPB | 159.79 | 135 | PKP | 19 | 31.00 | 2.4X | | 0.6s | 27.00nm | | | 5.4mb | |
| IMA | 83.58 | 24 | iPc | 11 | 58.40 | 1.7 | | 1.0s | 40.00nm | | | | | DMN | 47.02 | 307 | P | 42 | 22.90 | -1.2 |
| | 1.0s | 100.00nm | | | | 5.9mb | ZOBO | 159.95 | 134 | PKP | 19 | 31.00 | 2.0X | | 0.9s | 50.00nm | | | 5.5mb | |
| PMR | 85.09 | 29 | eP | 12 | 04.60 | 0.4 | | S.D. = 1.1 | on 184 of 202 obs. | | | | | GKN | 47.56 | 307 | P | 42 | 26.60 | -1.7 |
| | 1.2s | 195.30nm | | | | 6.2mb | | | | | | | KOD | 49.42 | 282 | eP | 42 | 43.00 | 0.0 | |
| FBA | 85.90 | 25 | eP | 12 | 07.60 | -0.6 | | | | | | | HYB | 49.51 | 291 | ePc | 42 | 43.00 | -0.3 | |
| TOA | 86.52 | 28 | eP | 12 | 11.25 | -0.1 | | | | | | | GBA | 49.88 | 286 | P | 42 | 45.00 | -1.1 | |
| NPA | 88.16 | 255 | iPc | 12 | 21.00 | 0.9 | | | | | | | NDI | 53.86 | 304 | iPd | 43 | 14.00 | -1.8 | |
| | 0.9s | 80.00nm | | | | 6.0mb | | | | | | | WMQ | 53.92 | 326 | eP | 43 | 15.50 | -0.6 | |
| BHL | 89.53 | 304 | Pc | 12 | 27.00 | 0.6 | | | | | | | POO | 54.12 | 291 | iPc | 43 | 21.50 | 3.5X | |
| GLH | 89.58 | 303 | iPd | 12 | 29.20 | 2.7 | | | | | | | MSZ | 59.40 | 147 | eP | 43 | 55.00 | 0.0 | |
| DSI | 89.87 | 301 | iP | 12 | 30.70 | 2.8 | DAV | 4.99 | 348 | eP | 35 | 14.00 | 6.0X | MHI | 70.34 | 308 | eP | 45 | 03.00 | -3.3X |
| NAI | 89.95 | 269 | iPd | 12 | 31.00 | 2.0 | TSM | 8.74 | 284 | ePd | 36 | 05.50 | 5.0X | AVY | 80.16 | 250 | eP | 46 | 03.50 | 0.7 |
| | 1.0s | 10.00nm | | | | 5.0mb | TLE | 9.90 | 142 | ePd | 36 | 20.00 | 3.4X | TAB | 80.99 | 308 | eP | 46 | 07.00 | 0.2 |
| BADA | 90.35 | 298 | eP | 12 | 31.30 | 1.1 | KKM | 11.03 | 291 | ePc | 36 | 35.00 | 2.9 | TTA | 82.35 | 27 | eP | 46 | 14.00 | 0.7 |
| RMN | 90.57 | 300 | iPd | 12 | 33.30 | 2.0 | | 0.9s | 121.50nm | | | 6.1mb | KDC | 83.33 | 32 | P | 46 | 18.50 | 0.3 | |
| KEV | 91.09 | 340 | eP | 12 | 32.00 | -0.8 | | | | | | | | | | | | | | |

10d 13h

0.6s 9.10nm 5.4mb
 SUF 92.87 333 eP 47 05.00 1.1
 NUR 93.99 331 eP 47 18.00 8.9X
 SLL 99.37 333 eP 47 33.70 0.0
 0.5s 1.80nm 4.9mb
 GOL 116.83 43 PKP 52 36.30 -0.7
 RSON 117.01 27 PKP 52 44.40 7.8X
 FVM 127.41 37 PKP 52 56.90 -0.1
 PWLA 130.82 38 PKP 53 03.50 -0.1
 PEL 145.19 154 iPKPd 53 30.60 0.6
 MDZ 146.19 156 iPKPc 53 33.90 2.2X
 CNCB 159.59 136 PKP 53 56.00 4.6X
 ZOBO 159.85 135 PKP 53 54.00 2.2X
 S.D. = 1.2 on 73 of 92 obs.

FEB 10, 1989 13h 41m 52.24 ± 0.26s
 2.206 N ± 4.5km 126.590 E ± 7.1km
 DEPTH = 33.0km (normol)
 4.9mb (12 obs.)
 MOLUCCA PASSAGE (266)

TLE 9.93 142 ePc 45 19.30 63.5X
 MTN 15.62 163 eP 45 30.00 -1.7
 KNA 17.97 173 eP 46 01.00 -0.3
 WB5 23.24 161 iPd 46 57.50 -0.2
 WRA 23.29 161 Pc 46 57.60 -0.6
 0.5s 12.70nm 4.7mb
 WB2 23.29 161 iPd 46 57.50 -0.7
 QIZ 23.42 317 eP 47 03.60 4.2X
 PMG 23.51 120 e(P) 47 02.00 1.6
 1.2s 50.00nm 4.9mb
 MBL 24.15 196 eP 47 07.00 0.6
 0.4s 6.00nm 4.5mb
 QIS 25.97 151 iPd 47 23.20 -0.6
 ASPA 26.68 165 iPc 47 29.00 -1.4
 0.9s 42.00nm 5.1mb
 NANU 26.88 203 eP 47 32.00 -0.1
 WARB 28.22 180 eP 47 38.00 -6.3X
 CTA 29.38 140 iPd 47 54.50 -0.3
 1.0s 20.50nm 4.8mb
 MEKA 29.69 195 eP 47 57.50 0.0
 CHTO 31.71 303 eP 48 15.00 -0.4
 MRWA 32.85 197 eP 48 27.00 1.8
 FORR 32.90 178 eP 48 25.00 -0.6
 COOL 33.31 189 eP 48 30.00 0.8
 BAL 33.96 195 eP 48 35.00 0.1
 KLB 34.64 193 eP 48 41.00 0.3
 MUN 35.40 195 eP 48 48.00 0.9
 RMO 35.67 145 iPd 48 48.60 -0.9
 NWA0 36.05 193 eP 48 54.00 1.4
 STK 36.77 158 iPd 48 58.70 0.0
 RKG 37.19 193 eP 49 11.00 8.8X
 TIY 37.65 341 eP 49 06.40 0.2

Z 25s 5.83um 5.3mszX
 N 27s 9.30um
 CMS 38.17 153 eP 49 10.00 -0.5
 ADE 38.69 164 iPd 49 15.20 0.4
 0.8s 62.69nm 5.5mb
 BRS 38.76 141 iPc 49 14.30 -1.2
 BJI 38.83 347 eP 49 15.00 -0.9
 SNY 39.54 356 eP 49 23.00 1.2
 LZH 39.75 331 eP 49 24.50 0.7
 COO 40.56 145 iPd 49 30.70 0.3
 BWA 41.82 153 iPc 49 42.00 1.3
 CAN 42.82 153 eP 49 49.10 0.2
 GTA 44.33 330 eP 50 01.60 0.4
 GUN 46.52 307 P 50 18.20 -0.8
 PKI 46.75 307 P 50 20.00 -0.8
 KKN 46.94 307 P 50 21.60 -0.7
 0.8s 22.00nm 5.2mb
 DMN 47.01 307 P 50 23.20 0.4
 0.8s 28.00nm 5.3mb
 GKN 47.55 307 P 50 26.20 -0.8
 HYB 49.51 291 eP 50 41.50 -0.6
 GBA 49.88 286 Pd 50 43.40 -1.5
 0.9s 7.40nm 4.7mb
 WMO 53.89 326 eP 51 14.80 0.1
 MSZ 59.43 147 P 51 54.00 0.0
 MHI 70.32 308 eP 53 05.00 0.0
 AVY 80.19 250 eP 54 03.80 2.1
 IMA 83.82 24 eP 54 20.80 1.1
 0.8s 6.80nm 4.9mb
 PMS 85.11 29 eP 54 26.10 0.1
 0.7s 4.30nm 4.8mb
 INK 91.62 21 eP 54 56.00 -0.9
 PNT 103.59 38 ePd 55 49.00 -2.5X

0.7s 4.00nm 5.3mb
 PEL 145.22 154 iPKPd 01 29.50 0.7
 CNCB 159.61 136 PKP 01 53.00 2.7X
 ZOBO 159.87 135 PKP 01 53.00 2.4X
 S.D. = 0.9 on 48 of 55 obs.

FEB 10, 1989 14h 06m 29.72 ± 0.97s
 2.367 N ± 3.0km 126.563 E ± 4.5km
 DEPTH = 40.1 ± 8.8 km
 5.3mb (25 obs.)
 MOLUCCA PASSAGE (266)

DAV 4.79 348 eP 07 42.80 1.4
 TSM 8.67 282 ePc 08 41.40 5.7X
 0.8s 352.30nm 6.5mb X
 TLE 10.07 142 ePd 08 57.00 2.1
 0.8s 7.00nm 4.9mb
 MKS 10.34 223 iPc 09 05.50 6.8X
 PPR 10.71 314 ePc 09 08.00 4.3X
 KKM 10.95 290 ePc 09 11.20 4.2X
 0.8s 161.50nm 6.2mb
 BAG 15.15 337 eP 10 02.80 0.0
 KHKI 15.26 226 ePc 10 11.50 7.3X
 e 14 50.00
 MTN 15.78 163 eP 10 09.00 -1.8
 TRT 17.12 234 iPc 10 30.00 2.2
 0.9s 54.70nm 4.7mb
 KNA 18.13 173 eP 10 39.00 -1.3
 0.9s 304.00nm 5.4mb
 MNDI 19.05 116 eP 10 54.00 2.2
 GUMO 21.26 57 eP 11 15.70 0.8
 1.0s 128.00nm 5.3mb
 PJG 21.26 57 eP 11 15.70 0.8
 GUA 21.27 58 eP 11 15.00 0.0
 0.8s 95.52nm 5.2mb
 HKC 23.19 330 Pd 11 34.00 0.1
 KGM 23.23 270 ePc 11 37.30 2.9X
 QIZ 23.28 316 eP 11 35.20 0.3
 WB5 23.40 161 iP 11 35.00 -1.0
 eS 15 49.10
 WRA 23.45 161 Pc 11 35.30 -1.2
 0.8s 82.20nm 5.3mb
 WB2 23.45 161 iP 11 35.00 -1.6
 eS 15 49.10
 PMG 23.62 120 eP 11 40.00 1.8
 1.0s 40.00nm 4.9mb
 QZH 23.73 342 eP 11 38.80 -0.3
 Z 28s 10.40um 5.2mszX
 N 28s 8.90um

GZH 24.26 329 iPc 11 43.20 -1.1
 MBL 24.29 195 eP 11 46.00 1.3
 0.8s 58.00nm 5.2mb
 IPM 25.58 276 ePd 11 57.90 0.8
 0.8s 68.80nm 5.3mb
 QIS 26.13 151 eP 12 00.00 -2.0
 ASPA 26.84 165 iPc 12 07.50 -1.1
 eS 16 41.80
 NANU 27.02 203 eP 12 11.00 0.9
 0.4s 17.00nm 5.0mb
 PSI 27.61 271 ePd 12 15.50 -0.2
 0.7s 39.80nm 5.2mb
 WARB 28.38 180 iPd 12 16.30 -6.2X
 NNT 28.44 292 eP 12 28.00 4.9X
 CTA 29.52 140 iPd 12 32.00 -0.8
 1.1s 54.43nm 5.2mb
 MEKA 29.84 195 eP 12 35.20 -0.4
 0.4s 21.00nm 5.2mb
 WHN 30.32 339 P 12 40.00 0.3
 NJ2 30.41 347 Pc 12 42.00 1.5
 GYA 30.64 323 P 12 43.00 0.2
 BDT 30.85 300 eP 12 45.00 0.4
 0.7s 64.40nm 5.5mb
 CHTO 31.60 303 eP 12 50.20 -1.0
 0.7s 44.63nm 5.4mb
 KMI 32.23 317 Pc 12 57.00 0.0
 MRWA 33.00 197 eP 13 04.00 0.7
 FORR 33.06 178 eP 13 02.00 -1.7
 COOL 33.47 188 eP 13 07.00 -0.3
 BAL 34.11 195 eP 13 13.00 0.1
 TSRJ 34.14 14 P 13 15.00 1.9
 IIDJ 34.59 16 P 13 16.50 -0.5
 TIA 34.79 347 eP 13 18.40 -0.3
 KLB 34.79 193 eP 13 19.00 0.2
 CHJJ 35.44 18 P 13 22.40 -1.8
 MUN 35.54 195 eP 13 25.00 -0.1
 XAN 35.56 334 P 13 23.90 -1.4
 MTMJ 35.60 16 P 13 23.90 -1.8

CD2 35.65 325 iPd 13 25.40 -0.7
 RMO 35.81 145 eP 13 25.00 -2.5
 i 15 56.80
 NWA0 36.19 193 eP 13 31.00 0.4
 DL2 36.64 354 eP 13 34.00 -0.3
 STK 36.93 158 eP 13 36.00 -0.8
 e 13 41.00
 RKG 37.34 193 eP 13 46.00 5.8X
 TIY 37.49 341 eP 13 41.00 -0.6
 YAMJ 37.71 17 eP 13 42.70 -0.6
 CMS 38.33 153 eP 13 48.00 -0.6
 e 15 20.00
 BJI 38.67 347 P 13 50.50 -0.8
 ADE 38.85 164 iPc 13 53.10 0.2
 0.8s 111.94nm 5.7mb
 BRS 38.90 141 Pd 13 51.00 -2.5
 i 13 59.20
 i 14 07.00
 e 15 24.00
 OFUJ 39.05 19 eP 13 54.50 0.0
 SNY 39.38 356 Pc 13 57.00 -0.2
 LZH 39.59 331 eP 13 58.50 -0.8
 1.5s 0.20nm 2.7mb X
 AOMJ 40.02 16 eP 14 06.90 4.4X
 HHC 40.63 342 P 14 07.50 -0.2
 COO 40.70 146 iPc 14 08.10 -0.2
 CN2 41.27 359 eP 14 13.00 0.3
 MRRJ 41.95 16 eP 14 20.10 1.8
 BWA 41.97 153 eP 14 19.80 1.1
 MDJ 42.16 3 Pc 14 20.20 0.2
 HOOJ 42.56 18 eP 14 25.40 2.1
 CAN 42.98 153 eP 14 26.90 0.0
 CNB 43.14 152 eP 14 29.00 0.7
 LSA 43.22 313 Pc 14 29.80 0.3
 TOO 43.44 158 iPc 14 32.40 1.8
 KUSJ 43.67 19 eP 14 32.40 0.1
 ASAJ 43.95 17 eP 14 34.90 0.3
 GTA 44.18 330 Pc 14 36.00 -0.7
 Z 28s 5.10um 5.3mszX
 E 23s 3.90um
 PP 16 21.70
 DZM 45.90 124 iPc 14 47.90 -2.7
 GUN 46.40 307 P 14 53.80 -1.0
 PKI 46.63 307 P 14 55.40 -1.2
 KKN 46.83 307 P 14 56.60 -1.4
 DMN 46.89 306 P 14 57.30 -1.3
 GKN 47.43 307 P 15 01.30 -1.5
 KOD 49.37 281 eP 15 17.80 -0.3
 HYB 49.43 291 iPd 15 17.60 -0.6
 1.0s 120.00nm 5.9mb
 e 15 34.50
 GBA 49.81 286 P 15 18.00 -3.1X
 NDI 53.73 304 iPd 15 48.60 -1.8
 eS 23 13.00
 WMO 53.74 326 iPd 15 49.60 -0.7
 Z 28s 2.90um 5.2mszX
 eS 23 25.00
 ScS 25 37.50
 POO 54.04 291 iPc 15 46.00 -6.8X
 KSH 58.86 316 P 16 27.50 0.4
 MSZ 59.58 147 P 16 32.00 0.3
 QUE 62.73 303 eP 16 52.30 -1.4
 MHI 70.20 308 iPc 17 40.60 -0.3
 1.2s 156.25nm 5.9mb
 KER 79.96 304 eP 18 45.00 8.2X
 AVY 80.21 250 eP 18 39.68 1.2
 TAB 80.85 308 eP 18 42.00 0.5
 SLY 81.36 305 ePd 18 43.50 -0.4
 KMSA 81.75 290 eP 18 46.00 -0.3
 BHD 82.16 303 ePc 18 50.00 1.8
 TTA 82.18 27 eP 18 48.60 0.8
 MAW 82.43 200 eP 18 50.00 1.2
 KDC 83.17 32 P 18 53.40 0.6
 MSL 83.30 306 ePd 18 54.00 0.0
 IMA 83.69 24 eP 18 56.00 0.4
 1.1s 75.00nm 5.7mb
 PMR 85.21 29 ePc 19 02.90 -0.2
 1.2s 117.20nm 5.9mb
 FBA 86.02 25 P 19 04.90 -2.2
 JVI 89.79 302 iPd 19 27.40 1.6
 NAI 89.81 269 iPc 19 29.00 2.4
 ADI 89.85 303 iPd 19 26.00 -0.1
 MBH 90.30 300 iPd 19 29.70 1.5
 INK 91.48 21 ePd 19 32.40 -0.5
 SOD 91.65 338 eP 19 26.00 -7.7X
 i 19 40.80
 KJF 91.74 334 iP 19 33.10 -1.1

| | | | | | | |
|------|--------|---------|--------|----|----------|------|
| SUF | 92.68 | 333 | eP | 19 | 38.00 | -0.5 |
| MBC | 93.31 | 13 | eP | 19 | 41.00 | -0.2 |
| NUR | 93.81 | 331 | eP | 19 | 45.00 | 1.3 |
| VR1 | 95.16 | 316 | ePc | 19 | 50.50 | 0.2 |
| PTZ | 95.64 | 256 | iP | 19 | 53.70 | 0.6 |
| MLR | 95.76 | 316 | ePc | 19 | 53.00 | -0.2 |
| BUL | 98.27 | 250 | iPc | 20 | 05.40 | 0.4 |
| | 0.3s | 14.29nm | | | 6.0mb | |
| VAY | 98.92 | 312 | eP | 20 | 07.00 | -0.4 |
| HFS | 99.14 | 332 | eP | 20 | 05.90 | -2.1 |
| | 0.4s | 1.10nm | | | 4.7mb | |
| NB2 | 99.92 | 333 | P | 20 | 09.40 | -2.3 |
| | 1.3s | 10.80nm | | | 5.2mb | |
| YKA | 100.80 | 24 | Pdiff | 20 | 15.80 | 0.4 |
| KSP | 100.82 | 323 | ePdiff | 20 | 17.00 | 1.2 |
| KMZ | 100.98 | 257 | iPdiff | 20 | 19.00 | 1.5 |
| KHC | 103.02 | 322 | ePdiff | 20 | 26.10 | 0.4 |
| | | e | | | 24.53.40 | |
| BW06 | 112.48 | 41 | PKP | 25 | 04.00 | 0.1 |
| FRB | 113.10 | 7 | ePKP | 25 | 04.00 | 0.0 |
| GOL | 116.69 | 43 | PKP | 25 | 11.50 | -0.6 |
| RSON | 116.84 | 27 | PKP | 25 | 10.70 | -1.0 |
| ALO | 118.06 | 48 | ePKP | 25 | 15.00 | 0.2 |
| SCH | 121.95 | 9 | ePKP | 25 | 22.00 | 0.7 |
| TUL | 125.13 | 42 | ePKP | 25 | 28.00 | 0.0 |
| | 1.1s | 9.20nm | | | | |
| LNO | 125.13 | 42 | ePKP | 25 | 28.90 | 1.0 |
| VVO | 125.49 | 43 | e(PKP) | 25 | 29.10 | 0.4 |
| RLO | 125.50 | 41 | e(PKP) | 25 | 27.70 | -1.1 |
| KOGH | 126.23 | 279 | ePKP | 25 | 32.50 | 1.6 |
| KUK | 126.34 | 279 | ePKP | 25 | 31.50 | 0.5 |
| OLY | 128.20 | 40 | PKP | 25 | 34.20 | 0.3 |
| ELC | 128.44 | 37 | PKP | 25 | 34.60 | 0.3 |
| KIC | 130.62 | 280 | PKP | 25 | 40.00 | 0.9 |
| PWLA | 130.67 | 38 | PKP | 25 | 38.00 | -0.7 |
| TIC | 130.85 | 281 | PKP | 25 | 40.40 | 0.8 |
| LIC | 130.92 | 280 | PKP | 25 | 40.30 | 0.6 |
| SAN | 145.12 | 154 | ePKPd | 26 | 05.80 | 0.6 |
| PEL | 145.38 | 154 | iPKPd | 26 | 05.60 | -0.1 |
| FCH | 145.39 | 155 | ePKP | 26 | 07.50 | 1.5 |
| JACH | 145.81 | 154 | ePKP | 26 | 08.00 | 1.5 |
| MDZ | 146.37 | 156 | iPKPd | 26 | 09.60 | 2.2X |
| CNCB | 159.74 | 136 | PKP | 26 | 30.00 | 3.0X |
| LPB | 159.85 | 135 | ePKP | 26 | 29.00 | 2.1X |
| ZOBO | 160.00 | 135 | PKP | 26 | 29.00 | 1.7 |
| | 1.1s | 11.60nm | | | | |

S.D. = 1.1 on 141 of 158 obs.

% FEB 10, 1989 14h 11m 26.10 ± 0.72s
 40.266 N ± 7.1km 28.910 E ± 7.9km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

| | | | | | | |
|------|------|-----|-----|----|-------|-------|
| YLV | 0.46 | 49 | iPg | 11 | 35.20 | -0.3 |
| | | | iSg | 11 | 40.70 | |
| GBZT | 0.66 | 38 | eP | 11 | 38.30 | -1.0 |
| DST | 0.69 | 198 | iPg | 11 | 38.60 | -1.3 |
| | | | iSg | 11 | 49.60 | |
| EDC | 0.80 | 276 | iPg | 11 | 41.50 | -0.2 |
| | | | eSg | 11 | 55.50 | |
| ISK | 0.81 | 8 | ePg | 11 | 43.10 | 1.4 |
| GPA | 1.07 | 88 | iPn | 11 | 45.90 | -0.4 |
| DMK | 1.78 | 331 | ePn | 12 | 00.40 | 3.3X |
| KHL | 2.00 | 166 | ePn | 12 | 02.30 | 2.0 |
| IZM | 2.26 | 215 | ePn | 12 | 04.00 | -0.1 |
| BBTK | 2.98 | 97 | eP | 12 | 27.00 | 12.5X |
| | | | eS | 13 | 02.00 | |

S.D. = 1.3 on 8 of 10 obs.

* FEB 10, 1989 14h 16m 54.92 ± 0.58s
 2.439 N ± 11.0km 126.617 E ± 16.2km
 DEPTH = 33.0km (normal)

4.4mb (3 obs.)

MOLUCCA PASSAGE (266)

| | | | | | | |
|------|-------|--------|-----|----|-------|-------|
| MTN | 15.83 | 164 | eP | 20 | 38.00 | 0.9 |
| KNA | 18.20 | 173 | eP | 21 | 07.00 | 0.2 |
| WB5 | 23.45 | 161 | eP | 22 | 02.10 | -0.3 |
| WRA | 23.50 | 162 | Pc | 22 | 02.20 | -0.7 |
| | 0.3s | 3.20nm | | | 4.3mb | |
| WB2 | 23.50 | 161 | eP | 22 | 02.10 | -0.8 |
| QIS | 26.16 | 151 | eP | 22 | 27.00 | -1.3 |
| ASPA | 26.90 | 165 | iPd | 22 | 34.30 | -0.7 |
| WARB | 28.45 | 180 | eP | 22 | 42.50 | -6.6X |
| CHTO | 31.61 | 303 | iP | 23 | 16.60 | -0.6 |
| | 0.8s | 3.84nm | | | 4.3mb | |

| | | | | | | |
|-----|-------|--------|----|----|-------|-------|
| BWA | 42.01 | 153 | eP | 24 | 46.50 | 1.6 |
| CAN | 43.02 | 153 | eP | 24 | 54.00 | 0.8 |
| GUN | 46.40 | 307 | P | 25 | 20.00 | -0.8 |
| HYB | 49.45 | 291 | eP | 25 | 44.00 | -0.4 |
| GBA | 49.84 | 286 | P | 25 | 49.00 | 1.7 |
| IMA | 83.60 | 24 | eP | 29 | 22.10 | 0.9 |
| | 1.0s | 8.80nm | | | 4.9mb | |
| INK | 91.40 | 21 | eP | 29 | 58.00 | -0.6 |
| BUL | 98.35 | 250 | eP | 30 | 26.10 | -5.3X |

S.D. = 1.0 on 15 of 17 obs.

FEB 10, 1989 14h 17m 24.24 ± 0.53s
 40.430 N ± 6.0km 21.254 E ± 3.7km

DEPTH = 9.3 ± 3.1 km

GREECE (364)

ML 3.2 (TTG), 3.2 (TIR).

| | | | | | | |
|------|------|-----|------|----|-------|------|
| KZN | 0.41 | 107 | ePgc | 17 | 32.60 | -0.1 |
| LSK | 0.57 | 241 | iPg | 17 | 35.00 | -0.8 |
| OHK | 0.76 | 333 | iPg | 17 | 36.90 | -2.4 |
| | | | iSg | 17 | 49.10 | |
| TPE | 0.96 | 262 | ePg | 17 | 40.80 | -1.8 |
| BERA | 1.03 | 286 | ePg | 17 | 43.10 | -0.6 |
| VAY | 1.34 | 48 | ePn | 17 | 47.70 | -1.2 |
| | | | i | 18 | 05.50 | |
| | | | iSn | 18 | 07.30 | |
| TIR | 1.39 | 312 | iPnc | 17 | 50.00 | 0.2 |
| PHP | 1.40 | 334 | iPnc | 17 | 50.10 | 0.3 |
| SKO | 1.55 | 5 | iPnd | 17 | 51.00 | -1.0 |
| | | | iSn | 18 | 11.00 | |
| PLG | 1.67 | 91 | ePn | 17 | 54.60 | 0.8 |
| LACI | 1.68 | 316 | iPnc | 17 | 54.30 | 0.5 |
| KKS | 1.76 | 339 | ePn | 17 | 55.50 | 0.5 |
| NEO | 1.89 | 126 | ePb | 17 | 58.00 | 1.1 |
| PUK | 1.91 | 328 | ePn | 17 | 56.00 | -1.2 |
| SDA | 2.06 | 321 | ePn | 18 | 01.70 | 2.3 |
| BCI | 2.13 | 336 | ePn | 18 | 01.00 | 0.6 |
| ULC | 2.15 | 316 | ePn | 18 | 01.70 | 0.9 |
| | | | eSn | 18 | 30.50 | |
| MMB | 2.20 | 57 | iPc | 18 | 01.00 | -0.5 |
| | | | iS | 18 | 28.00 | |
| PVY | 2.37 | 336 | ePn | 18 | 04.20 | 0.3 |
| | | | eSn | 18 | 35.00 | |
| TTG | 2.50 | 324 | ePn | 18 | 05.80 | 0.2 |
| | | | eSn | 18 | 37.50 | |
| BDV | 2.60 | 316 | ePn | 18 | 07.50 | 0.4 |
| | | | eSn | 18 | 40.60 | |
| VTS | 2.61 | 34 | eP | 18 | 06.00 | -1.4 |
| RZN | 2.90 | 63 | iPd | 18 | 12.00 | 0.4 |
| NKY | 2.92 | 325 | ePn | 18 | 12.40 | 0.6 |
| | | | eSn | 18 | 49.50 | |
| RDO | 3.33 | 76 | ePn | 18 | 16.70 | -0.8 |
| KDZ | 3.38 | 67 | iP | 18 | 24.00 | 5.8X |
| HVAR | 4.52 | 309 | iPn | 18 | 33.80 | -0.6 |
| BZS | 5.19 | 3 | ePc | 18 | 48.50 | 4.7X |

S.D. = 1.1 on 26 of 28 obs.

FEB 10, 1989 14h 21m 38.96 ± 0.26s
 2.405 N ± 4.3km 126.663 E ± 7.1km

DEPTH = 33.0km (normal)

5.2mb (8 obs.)

MOLUCCA PASSAGE (266)

| | | | | | | |
|------|-------|---------|-----|----|-------|--------|
| MTN | 15.79 | 164 | eP | 25 | 20.00 | -0.6 |
| KNA | 18.16 | 173 | eP | 25 | 50.00 | -0.4 |
| GUMO | 21.15 | 57 | eP | 26 | 13.20 | -10.5X |
| | 0.9s | 68.20nm | | | | |
| PJG | 21.15 | 57 | eP | 26 | 13.60 | -10.1X |
| WB5 | 23.40 | 161 | eP | 26 | 45.30 | -0.7 |
| WRA | 23.45 | 162 | Pd | 26 | 45.50 | -1.0 |
| | 0.9s | 27.50nm | | | 4.8mb | |
| WB2 | 23.46 | 162 | eP | 26 | 45.30 | -1.2 |
| QIS | 26.11 | 152 | eP | 27 | 11.00 | -0.8 |
| ASPA | 26.86 | 165 | iPc | 27 | 17.10 | -1.6 |
| | | | eS | 32 | 00.20 | |
| NANU | 27.09 | 203 | eP | 27 | 21.80 | 1.1 |
| WARB | 28.42 | 180 | eP | 27 | 26.50 | -6.3X |
| CTA | 29.48 | 140 | eP | 27 | 43.00 | 0.5 |
| MEKA | 29.90 | 195 | eP | 27 | 46.00 | -0.1 |
| CHTO | 31.66 | 303 | eP | 28 | 01.00 | -0.7 |
| WRA | 33.06 | 197 | eP | 28 | 15.00 | 1.2 |
| FORR | 33.10 | 178 | eP | 28 | 13.00 | -1.0 |
| COOL | 33.52 | 189 | eP | 28 | 18.00 | 0.2 |
| BAL | 34.17 | 195 | eP | 28 | 24.00 | 0.6 |
| KLB | 34.85 | 193 | eP | 28 | 30.00 | 0.8 |
| YAMJ | 37.65 | 17 | eP | 28 | 52.30 | -0.5 |
| BRS | 38.87 | 141 | eP | 29 | 08.80 | 5.6X |

| | | | | | | |
|------|--------|---------|-------|----|-------|------|
| OFUJ | 38.98 | 19 | eP | 29 | 03.60 | -0.3 |
| MRRJ | 41.88 | 16 | eP | 29 | 27.10 | -0.6 |
| BWA | 41.96 | 153 | eP | 29 | 29.80 | 1.3 |
| CAN | 42.97 | 153 | eP | 29 | 36.60 | -0.2 |
| KUSJ | 43.60 | 19 | eP | 29 | 42.80 | 1.1 |
| ASAJ | 43.88 | 17 | eP | 29 | 43.90 | -0.2 |
| GUN | 46.46 | 307 | P | 30 | 04.60 | -0.7 |
| PKI | 46.69 | 306 | P | 30 | 05.80 | -1.3 |
| | 0.6s | 12.00nm | | | 5.0mb | |
| KKN | 46.88 | 307 | P | 30 | 07.40 | -1.1 |
| | 0.7s | 18.00nm | | | 5.2mb | |
| DMN | 46.95 | 306 | P | 30 | 08.20 | -0.9 |
| | 0.7s | 23.00nm | | | 5.3mb | |
| GKN | 47.49 | 307 | P | 30 | 12.00 | -1.2 |
| | 0.6s | 13.00nm | | | 5.1mb | |
| KOD | 49.46 | 281 | eP | 30 | 28.40 | -0.4 |
| HYB | 49.51 | 291 | eP | 30 | 28.00 | -0.8 |
| GBA | 49.90 | 286 | P | 30 | 32.00 | 0.2 |
| | 0.4s | 5.40nm | | | 4.9mb | |
| MHI | 70.26 | 308 | eP | 32 | 51.00 | -0.4 |
| AVY | 80.32 | 250 | eP | 33 | 50.58 | 1.4 |
| TAB | 80.91 | 308 | eP | 33 | 53.00 | 1.1 |
| TTA | 82.10 | 27 | eP | 33 | 58.20 | 0.7 |
| IMA | 83.61 | 24 | ePc | 34 | 06.10 | 0.8 |
| | 1.2s | 31.30nm | | | 5.3mb | |
| PMR | 85.13 | 29 | eP | 34 | 12.50 | -0.3 |
| | 1.2s | 27.30nm | | | 5.3mb | |
| PRNI | 90.24 | 300 | eP | 34 | 39.00 | 0.9 |
| NOH | 90.25 | 301 | eP | 34 | 40.00 | 1.8 |
| MBH | 90.37 | 300 | eP | 34 | 40.00 | 1.3 |
| INK | 91.41 | 21 | eP | 34 | 42.00 | -0.7 |
| MBC | 93.25 | 13 | eP | 34 | 51.00 | 0.0 |
| YKA | 100.72 | 24 | Pdiff | 35 | 30.50 | 5.4X |
| CNCB | 159.70 | 136 | ePKP | 41 | 39.00 | 1.9 |
| LPB | 159.80 | 135 | ePKP | 41 | 42.00 | 5.0X |
| ZOBO | 159.96 | 134 | PKP | 41 | 38.00 | 0.6 |

S.D. = 0.9 on 44 of 50 obs.

FEB 10, 1989 14h 31m 52.56 ± 0.38s
 2.357 N ± 6.6km 126.558 E ± 9.9km

DEPTH = 33.0km (normal)

4.8mb (7 obs.)

MOLUCCA PASSAGE (266)

| | | | | | | |
|------------------------------|-------|---------|-----|----|-------|-------|
| KNA | 18.12 | 173 | eP | 36 | 03.00 | -0.5 |
| WB5 | 23.39 | 161 | eP | 36 | 58.90 | -0.6 |
| WRA | 23.44 | 161 | Pd | 37 | 00.10 | 0.1 |
| | 0.5s | 9.70nm | | | 4.6mb | |
| WB2 | 23.45 | 161 | eP | 36 | 58.90 | -1.1 |
| QIS | 26.12 | 151 | eP | 37 | 25.00 | -0.5 |
| ASPA | 26.84 | 165 | iPd | 37 | 31.60 | -0.5 |
| | | | eS | 42 | 14.60 | |
| NANU | 27.01 | 203 | eP | 37 | 35.00 | 1.4 |
| WARB | 28.37 | 180 | eP | 37 | 40.00 | -6.0X |
| MEKA | 29.83 | 195 | eP | 37 | 59.00 | -0.1 |
| CHTO | 31.60 | 303 | eP | 38 | 14.20 | -0.6 |
| | 1.0s | 4.25nm | | | 4.3mb | |
| FORR | 33.05 | 178 | eP | 38 | 27.00 | -0.2 |
| BWA | 41.96 | 153 | eP | 39 | 43.90 | 1.7 |
| CAN | 42.97 | 153 | eP | 39 | 51.10 | 0.7 |
| GUN | 46.40 | 307 | P | 40 | 18.40 | 0.0 |
| | 0.6s | 18.00nm | | | 5.2mb | |
| PKI | 46.63 | 307 | P | 40 | 20.20 | 0.0 |
| DMN | 46.89 | 306 | P | 40 | 22.00 | -0.2 |
| | 0.7s | 10.00nm | | | 4.9mb | |
| GKN | 47.43 | 307 | P | 40 | 26.50 | 0.1 |
| HYB | 49.43 | 291 | eP | 40 | 42.00 | 0.2 |
| GBA | 49.81 | 286 | Pc | 40 | 44.60 | -0.1 |
| | 0.6s | 4.20nm | | | 4.6mb | |
| IMA | 83.70 | 24 | eP | 44 | 20.30 | 1.0 |
| | 0.9s | 9.40nm | | | 4.9mb | |
| PMR | 85.22 | 29 | eP | 44 | 26.70 | -0.1 |
| | 1.0s | 10.00nm | | | 5.0mb | |
| INK | 91.49 | 21 | eP | 44 | 56.00 | -0.7 |
| S. D. = 0.7 on 21 of 22 obs. | | | | | | |

10d 14h

WB2 23.51 162 eP 50 40.80 -0.8
 OIS 26.16 152 iPd 51 06.90 0.1
 ASPA 26.91 165 eP 51 13.60 -0.2
 WARB 28.49 180 eP 51 22.00 -6.0X
 CHTO 31.64 303 iP 51 56.10 0.0
 FORR 33.16 178 eP 52 09.00 -0.1
 GUN 46.43 307 P 54 00.00 0.3
 PKI 46.66 306 P 54 01.20 -0.3
 KKN 46.86 307 P 54 02.80 -0.1
 DMN 46.92 306 P 54 04.20 0.8
 GKN 47.46 307 P 54 07.70 0.1
 HYB 49.50 291 eP 54 24.00 0.6
 GBA 49.90 286 P 54 25.00 -1.3
 S.D. = 0.6 on 16 of 17 obs.

& FEB 10, 1989 14h 52m 59.17s
 61.615 N 149.556 W
 DEPTH = 31.5km
 SOUTHERN ALASKA (2)
 <AGS-P>. ML 3.0 (PMR).

PWA 0.16 283 iP 53 04.60 -0.6
 PLRM 0.20 96 iP 53 05.31 -0.3
 PMR 0.20 96 iPc 53 05.20 -0.4
 PME 0.25 87 iP 53 05.92 -0.3
 GHO 0.34 62 iP 53 06.78 -0.6
 PMS 0.37 180 iP 53 07.10 -0.7
 KNK 0.57 111 iP 53 10.03 -0.8
 SML 0.61 71 iP 53 10.34 -1.2
 PTE 0.80 161 iP 53 12.64 -1.4
 PWL 0.96 142 iP 53 15.17 -1.3
 SLKM 1.16 197 eP 53 18.16 -1.1
 NKA 1.20 224 eP 53 20.56 0.8
 SPU 1.28 251 eP 53 19.75 -1.3
 CRP 1.30 256 iP 53 21.02 -0.4
 SEW 1.52 178 eP 53 22.91 -1.5
 VZW 1.55 110 iP 53 24.53 -0.4
 VLZ 1.63 106 eP 53 25.30 -0.7
 TOA 1.68 71 iPd 53 27.30 0.5
 RDT 1.73 234 iP 53 26.58 -1.1
 KLU 1.74 92 iP 53 27.16 -0.6
 NNL 1.79 209 eP 53 28.78 0.4
 HIN 1.93 128 eP 53 29.34 -1.0
 RED 1.97 234 eP 53 29.71 -1.4
 CVA 2.14 118 eP 53 32.08 -1.2
 MCK 2.14 7 eP 53 33.06 -0.4
 CNPM 2.25 202 eP 53 34.57 -0.5
 PAX 2.34 53 eP 53 36.24 -0.2
 SGAM 2.39 116 eP 53 35.32 -1.7
 RAGM 2.68 115 eP 53 40.00 -1.1
 GLB 2.76 91 eP 53 41.07 -1.1
 DDM 2.77 36 eP 53 42.03 -0.3
 PDB 2.93 233 eP 53 42.70 -1.8
 SVW 2.97 263 eP 53 43.00 -2.2
 NEA 2.98 4 eP 53 44.06 -1.3
 TTA 3.29 296 iPc 53 47.50 -2.3
 FBA 3.39 13 iP 53 49.90 -1.3
 CTGM 4.02 96 eP 53 58.91 -1.3
 IMA 4.83 340 eP 54 09.20 -2.4
 38 obs. associated

? FEB 10, 1989 15h 04m 25.68±1.73s
 1.364 N ±42.2km 125.187 E ±59.6km
 DEPTH = 33.0km (normol)
 4.6mb (3 obs.)
 MOLUCCA PASSAGE (266)

WB5 22.95 157 eP 09 29.10 0.8
 WB2 23.01 157 eP 09 29.10 0.2

ASPA 26.28 162 iPc 10 04.90 4.7X
 WARB 27.42 177 eP 10 10.00 -0.5
 CHTO 31.03 306 eP 10 44.00 1.2
 BWA 41.75 151 eP 12 13.00 -0.5
 GUN 45.93 309 P 12 47.70 -0.1
 PKI 46.14 308 P 12 47.30 -2.2
 DMN 46.39 308 P 12 53.00 1.6
 GKN 46.94 308 P 12 55.20 -0.4
 S.D. = 1.3 on 9 of 10 obs.
 ? FEB 10, 1989 15h 22m 59.36±4.09s
 13.161 S ±23.6km 166.896 E ±19.8km
 DEPTH = 191.7 ±36.3 km
 4.7mb (4 obs.)
 VANUATU ISLANDS (186)

DZM 8.87 183 iPd 25 04.90 -0.1
 BRS 19.36 221 Pd 27 12.80 0.3
 CTA 20.93 248 iPd 27 31.00 2.7X
 RMO 21.57 229 iPc 27 35.90 1.3
 CMS 26.60 223 iPc 28 21.20 -0.6
 BWA 27.00 215 eP 28 23.40 -2.0
 CAN 27.35 213 eP 28 30.80 2.3
 ASPA 32.93 247 iPc 29 16.40 -1.4
 FORR 39.79 237 iPc 30 15.10 -0.2
 CHTO 74.11 294 e(P) 34 17.50 0.9
 SPA 76.92 180 iPc 34 31.80 -0.1
 GUN 88.32 299 P 35 31.00 -0.2
 KJF 121.74 340 iPKP 41 31.00 -0.3
 SUF 123.25 340 iPKP 41 34.00 -0.3
 NUR 125.29 338 iPKP 41 38.00 0.5
 NB2 129.02 345 PKP 41 45.40 -0.1
 KIC 169.34 231 PKP 43 06.70 21.5X
 TIC 169.74 232 PKP 43 07.08 21.6X
 S.D. = 1.1 on 15 of 18 obs.

FEB 10, 1989 15h 23m 55.99±0.57s
 2.464 N ±2.5km 126.689 E ±3.7km
 DEPTH = 38.3 ±5.2 km
 5.5mb (31 obs.) 4.6Msz (1 obs.)
 MOLUCCA PASSAGE (266)

CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 33C
 Centroid Location:
 Origin Time 15:24: 8.5 1.0
 Lot 2.89N 0.10 Lon 126.70E 0.09
 Dep 33.0 FIX Half-duration 3.4
 Moment Tensor: Scale 10**17 Nm
 Mrr=-7.27 0.57 Mtt=-0.32 0.51
 Mff=-6.96 0.86 Mrt= 4.48 1.02
 Mrf=-0.17 1.10 Mtf=-2.55 0.56
 Principal Axes:
 T Val= 9.44 Plg=64 Azm= 10
 N -1.50 25 204
 P -7.95 6 112
 Best Double Couple: Mo=8.7*10**17
 NP1: Strike=176 Dip=45 Slip= 53
 NP2: 43 56 121

DAV 4.73 346 ePc+ 25 08.00 1.2
 AAI 6.29 166 eP 25 34.40 5.6X
 TSM 8.78 282 ePc 26 09.90 6.4X
 TLE 10.07 143 ePd 26 24.00 2.7
 MKS 10.50 223 P 26 31.00 3.9X
 PPR 10.74 313 ePd 26 37.00 6.6X
 KKM 11.03 289 ePd 26 39.00 4.5X
 OCP 13.30 336 eP 26 56.00 -8.8X
 BAG 15.11 337 eP 27 29.00 0.3
 KHKI 15.42 226 P 27 39.20 6.6X

MTN 15.84 164 iPd 27 37.60 -0.3
 PIP 16.85 340 ePd 27 40.50 -10.2X
 TRT 17.28 234 iPc 28 00.30 4.2X
 KNA 18.21 174 eP 28 07.00 -0.7
 MNDI 18.98 117 eP 28 18.00 0.6
 GUMO 21.10 57 eP 28 37.90 -1.8
 PJG 21.10 57 eP 28 38.30 -1.4
 GUA 21.11 58 eP 28 38.00 -1.8
 ANP 23.13 348 eP 29 02.00 2.1
 HKC 23.17 329 P 29 00.50 0.3
 OIZ 23.30 316 Pc 29 01.00 -0.5
 MCO 23.34 328 eP 29 02.00 0.2
 KGM 23.36 269 ePc 29 04.60 2.5
 WB5 23.45 162 iPc 29 02.10 -0.9
 WRA 23.50 162 Pc 29 04.20 0.7
 WB2 23.51 162 iPc 29 02.10 -1.4
 PMG 23.56 120 e(P) 29 04.00 0.0
 QZH 23.67 341 eP 29 06.00 0.9
 Z 28s 17.10um 5.4MszX
 N 28s 18.60um
 GZH 24.24 329 iPd 29 10.00 -0.6
 Z 32s 6.10um 4.9MszX
 MBL 24.42 196 eP 29 13.00 0.6
 IPM 25.70 275 ePd 29 24.30 -0.3
 OIS 26.15 152 eP 29 27.00 -1.7
 SNG 26.39 281 eP 29 24.00 -6.9X
 ASPA 26.91 165 iPc 29 34.50 -1.1
 NANU 27.15 203 iPc 29 38.40 0.6
 PSI 27.74 271 ePd 29 43.00 -0.3
 WARB 28.48 180 iPd 29 43.40 -6.4X
 NNT 28.52 292 eP 29 51.00 0.7
 LOE 28.66 303 iPc 29 50.60 -0.9
 SSE 28.95 350 Pc 29 54.00 0.0
 Z 1.5s 0.38nm 2.9mb X
 E 13s 0.70um 4.6Msz
 CTA 29.51 140 iPc 29 58.30 -0.9
 MEKA 29.96 195 iPc 30 03.00 -0.1
 KUMJ 30.16 7 eP 30 04.20 -0.6
 NJ2 30.34 347 eP 30 07.00 0.6
 GYA 30.64 323 P 30 08.20 -1.0
 CHG 31.65 303 iPc 30 18.00 -0.2
 CHTO 31.65 303 iPc 30 17.30 -0.8
 KMI 32.25 316 Pc 30 23.50 0.0
 SHK 32.39 9 eP 30 24.30 -0.1
 WKYJ 32.67 14 eP 30 26.70 -0.2
 MRWA 33.13 197 eP 30 31.00 0.2
 FORR 33.16 178 eP 30 30.00 -1.0
 YONJ 33.16 10 eP 30 31.20 0.1
 COOL 33.58 189 eP 30 34.00 -0.8
 TSRJ 34.02 14 eP 30 37.70 -0.8
 BAL 34.24 195 eP 30 40.00 -0.4
 IIDJ 34.46 16 iPd 30 42.00 -0.4
 TIA 34.73 346 Pc 30 43.70 -0.9
 N 13s 0.70um 36 12.00

| | | | | | | | | | | | | | | | | | | | | |
|------|-------|-----|---------|----|-------|---------|------|--------|--------|-----------|-------|--------|--------|-------|------------|---------|--------------------|-------|-------|-------|
| | | | | | | | Z | 30s | 3.00um | 5.2MszX | MFF | 112.46 | 323 | ePKP | 42 | 15.10 | -14.8X | | | |
| KLB | 34.92 | 193 | eP | 30 | 46.00 | -0.3 | | | S | 40 | 54.50 | | 0.8s | | 16.10nm | | | | | |
| CHJJ | 35.31 | 17 | iPd | 30 | 48.10 | -1.4 | NDI | 53.78 | 304 | iPc | 33 | 15.00 | -2.3 | FRB | 112.98 | 7 | ePKP | 42 | 30.00 | -0.3 |
| MTMJ | 35.47 | 16 | iP+ | 30 | 50.10 | -0.9 | | | eS | 40 | 44.00 | | | GOL | 116.54 | 43 | PKP | 42 | 38.70 | 0.4 |
| XAN | 35.52 | 334 | Pc | 30 | 50.10 | -1.4 | POO | 54.12 | 291 | iPc | 33 | 18.50 | -1.4 | RSON | 116.70 | 27 | PKP | 42 | 37.20 | -0.7 |
| | | | S | 36 | 19.90 | | | 1.3s | | 46.15nm | | | 5.4mb | ALQ | 117.90 | 48 | ePKP | 42 | 41.30 | 0.3 |
| CD2 | 35.64 | 325 | eP | 30 | 51.40 | -1.1 | KSH | 58.88 | 316 | P | 33 | 54.20 | 0.5 | MEO | 123.67 | 45 | ePKP | 42 | 52.20 | 0.4 |
| MUN | 35.67 | 195 | eP | 30 | 52.00 | -0.6 | | | eS | 41 | 58.50 | | | | 1.2s | | 11.60nm | | | |
| KAKJ | 35.82 | 19 | P | 30 | 50.90 | -2.9 | MSZ | 59.59 | 147 | P | 33 | 57.90 | -0.4 | KOGH | 126.33 | 279 | ePKP | 42 | 58.00 | 0.4 |
| RMQ | 35.82 | 145 | iPd | 30 | 52.70 | -1.3 | QUE | 62.79 | 303 | eP | 34 | 18.00 | -1.7 | KUK | 126.44 | 279 | ePKP | 42 | 58.00 | 0.3 |
| | | | i | 33 | 22.80 | | ADK | 68.03 | 34 | eP | 34 | 53.00 | -0.5 | FVM | 127.11 | 37 | PKP | 42 | 57.80 | -0.5 |
| NWAO | 36.32 | 193 | eP | 30 | 58.00 | -0.1 | MHI | 70.24 | 308 | iPc | 35 | 07.20 | -0.5 | OLY | 128.05 | 40 | PKP | 43 | 00.60 | 0.4 |
| NIHJ | 36.42 | 17 | P | 30 | 57.60 | -1.3 | | 1.1s | | 379.75nm | | | 6.3mb | ELC | 128.29 | 37 | PKP | 43 | 00.80 | 0.3 |
| DL2 | 36.56 | 353 | eP | 31 | 00.00 | -0.1 | SDN | 78.25 | 34 | eP | 35 | 53.70 | 0.4 | PWLA | 130.52 | 38 | PKP | 43 | 05.00 | 0.1 |
| Z | 26s | | 1.30um | | | 4.6MszX | KER | 80.01 | 304 | eP | 36 | 08.00 | 4.4X | LIC | 131.02 | 280 | PKP | 43 | 07.32 | 0.9 |
| E | 15s | | 1.60um | | | | AVY | 80.36 | 250 | eP | 36 | 06.54 | 0.8 | TKL | 132.57 | 34 | PKP | 43 | 09.00 | 0.2 |
| | | | S | 36 | 39.00 | | TAB | 80.89 | 308 | eP | 36 | 09.00 | 0.8 | LHS | 135.08 | 33 | PKP | 43 | 13.70 | 0.2 |
| STK | 36.97 | 159 | eP | 31 | 03.00 | -0.6 | SLY | 81.40 | 305 | iPd | 36 | 10.00 | -0.7 | TACH | 144.86 | 154 | ePKP | 43 | 31.00 | -0.2 |
| | | | e | 31 | 14.00 | | KMSA | 81.83 | 290 | eP | 36 | 13.00 | -0.2 | SAN | 145.16 | 154 | ePKP | 43 | 32.00 | 0.3 |
| TIY | 37.44 | 341 | Pc | 31 | 06.80 | -0.8 | SVW | 81.91 | 29 | eP | 36 | 14.60 | 1.8 | PEL | 145.41 | 154 | iPKPc | 43 | 33.00 | 0.8 |
| Z | 29s | | 10.70um | | | 5.5MszX | TTA | 82.04 | 27 | iPc | 36 | 15.20 | 1.7 | FCH | 145.42 | 154 | ePKP | 43 | 34.00 | 1.4 |
| N | 27s | | 11.20um | | | | BHD | 82.22 | 303 | iPd | 36 | 15.00 | 0.1 | MDZ | 146.41 | 156 | iPKPd | 43 | 35.10 | 1.2 |
| | | | PP | 32 | 32.00 | | MAW | 82.56 | 200 | eP | 36 | 16.50 | 0.5 | CNCB | 159.72 | 136 | PKP | 43 | 56.00 | 2.5X |
| RKG | 37.46 | 193 | eP | 31 | 13.00 | 5.3X | KDC | 83.02 | 32 | eP | 36 | 19.70 | 1.2 | LPB | 159.82 | 135 | PKP | 43 | 56.00 | 2.6X |
| | 0.5s | | 25.00nm | | | 5.4mb | MSL | 83.34 | 306 | iPd | 36 | 21.00 | 0.3 | ZOBO | 159.98 | 134 | iPKPc | 43 | 55.40 | 1.6 |
| YAMJ | 37.58 | 17 | eP | 31 | 08.00 | 0.1 | | | eS | 46 | 17.00 | | | | 1.3s | | 25.63nm | | | |
| CMS | 38.36 | 153 | iPc | 31 | 14.70 | -0.6 | IMA | 83.55 | 24 | iPc | 36 | 23.00 | 1.6 | CCH | 160.54 | 140 | ePKP | 43 | 57.00 | 3.0X |
| | | | e | 32 | 45.00 | | | 1.2s | | 171.90nm | | | 6.0mb | | S.D. = 1.0 | | on 166 of 194 obs. | | | |
| BJI | 38.60 | 347 | Pc | 31 | 17.00 | -0.2 | PMR | 85.07 | 29 | iPc | 36 | 29.30 | 0.5 | | | | | | | |
| Z | 4.0s | | 0.70nm | | | 2.8mb X | | 1.3s | | 292.50nm | | | 6.3mb | | | | | | | |
| | Z | 26s | | | | 5.1MszX | FBA | 85.88 | 25 | P | 36 | 33.50 | 0.6 | | | | | | | |
| | | | PcP | 33 | 30.00 | | TOA | 86.49 | 28 | eP | 36 | 37.30 | 1.3 | | | | | | | |
| BRS | 38.90 | 141 | Pd | 31 | 18.40 | -1.5 | NPA | 88.16 | 255 | iPc | 36 | 46.00 | 1.2 | | | | | | | |
| | | | e(S) | 37 | 08.00 | | | | e | 37 | 46.50 | | | | | | | | | |
| | | | e | 40 | 10.00 | | KVT | 88.88 | 311 | iP | 36 | 48.50 | 0.6 | KNA | 18.18 | 173 | eP | 43 | 48.90 | 2.0 |
| ADE | 38.91 | 164 | iPc | 31 | 20.00 | 0.1 | HRI | 89.46 | 303 | iPd | 36 | 52.50 | 1.6 | WB5 | 23.44 | 161 | eP | 44 | 42.60 | 0.0 |
| | 0.8s | | 94.03nm | | | 5.6mb | JVI | 89.85 | 302 | iPd | 36 | 54.00 | 1.4 | WRA | 23.49 | 161 | Pd | 44 | 42.60 | -0.5 |
| OFUJ | 38.92 | 19 | eP | 31 | 20.20 | 0.3 | MBH | 90.36 | 300 | iP | 36 | 56.40 | 1.4 | | 0.6s | | 13.40nm | | | 4.6mb |
| SNY | 39.29 | 356 | iPc | 31 | 23.20 | 0.3 | IKL | 90.98 | 306 | iP | 36 | 58.00 | 0.3 | WB2 | 23.50 | 161 | eP | 44 | 42.60 | -0.5 |
| Z | 29s | | 3.30um | | | 5.0MszX | KEV | 91.06 | 340 | eP | 36 | 57.00 | -0.4 | QIS | 26.16 | 151 | iPc | 45 | 08.40 | -0.1 |
| N | 28s | | 3.20um | | | | INK | 91.35 | 21 | eP | 36 | 58.50 | -0.3 | ASPA | 26.89 | 165 | iPc | 45 | 14.10 | -1.1 |
| E | 26s | | 1.50um | | | | | 1.2s | | 66.00nm | | | 5.9mb | | 0.5s | | 8.00nm | | | 4.6mb |
| | | | S | 37 | 22.00 | | KJF | 91.71 | 334 | iP | 36 | 59.90 | -0.6 | | | | | | | |
| LZH | 39.57 | 330 | P | 31 | 25.50 | 0.0 | SUF | 92.65 | 333 | eP | 37 | 04.00 | -0.9 | NANU | 27.06 | 203 | eP | 45 | 17.00 | 0.3 |
| Z | 2.5s | | 0.80nm | | | 3.1mb X | MBC | 93.19 | 13 | eP | 37 | 07.00 | -0.1 | WARB | 28.43 | 180 | eP | 45 | 23.00 | -6.1X |
| | Z | 28s | | | | 5.5MszX | | 1.2s | | 40.00nm | | | 5.7mb | MEKA | 29.89 | 195 | eP | 45 | 42.50 | 0.3 |
| N | 25s | | 5.79um | | | | NUR | 93.78 | 331 | eP | 37 | 10.00 | -0.1 | CHTO | 31.58 | 303 | iP | 45 | 56.90 | -0.4 |
| AOMJ | 39.89 | 16 | eP | 31 | 28.60 | 0.7 | VRI | 95.18 | 316 | ePc | 37 | 17.50 | 0.6 | | 0.9s | | 8.31nm | | | 4.6mb |
| HHC | 40.58 | 342 | eP | 31 | 33.60 | -0.1 | MLR | 95.78 | 316 | iPc | 37 | 20.00 | 0.2 | FORR | 33.11 | 178 | eP | 46 | 08.00 | -2.4 |
| Z | 30s | | 1.35um | | | 4.6MszX | PTZ | 95.78 | 256 | iPd | 37 | 20.60 | 0.3 | BWA | 42.01 | 153 | eP | 47 | 26.30 | 1.1 |
| COO | 40.71 | 146 | iPd | 31 | 35.40 | 0.6 | BUL | 98.42 | 250 | iPc | 37 | 32.30 | 0.1 | CAN | 43.02 | 153 | eP | 47 | 32.60 | -0.8 |
| BTO | 40.85 | 340 | eP | 31 | 36.00 | 0.1 | | 1.2s | | 21.88nm | | | 5.6mb | GUN | 46.38 | 307 | P | 48 | 00.40 | -0.5 |
| N | 30s | | 13.60um | | | | BZS | 98.74 | 317 | eP | 37 | 34.50 | 1.6 | | 0.6s | | 28.00nm | | | 5.4mb |
| CN2 | 41.18 | 359 | Pc | 31 | 38.00 | -0.4 | KRA | 98.80 | 321 | eP | 37 | 33.00 | -0.1 | PKI | 46.61 | 306 | P | 48 | 01.80 | -0.9 |
| MRRJ | 41.82 | 16 | eP | 31 | 44.30 | 0.6 | VAY | 98.94 | 312 | eP | 37 | 32.70 | -1.3 | | 0.6s | | 7.00nm | | | 4.8mb |
| BWA | 42.00 | 153 | iPc | 31 | 50.40 | 5.1X | HFS | 99.11 | 332 | ePKP | 37 | 33.60 | -0.7 | KKN | 46.80 | 307 | P | 48 | 03.40 | -0.7 |
| MDJ | 42.05 | 3 | Pc | 31 | 46.50 | 0.9 | | 1.3s | | 29.80nm | | | 5.7mb | | 0.6s | | 15.00nm | | | 5.2mb |
| Z | 30s | | 3.25um | | | 5.0MszX | SKO | 99.64 | 313 | eP | 37 | 41.00 | 3.8X | DMN | 46.87 | 306 | P | 48 | 04.20 | -0.5 |
| | | | eS | 38 | 05.00 | | NB2 | 99.89 | 334 | P | 37 | 36.20 | -1.8 | | 0.5s | | 11.00nm | | | 5.1mb |
| HO0J | 42.43 | 18 | eP | 31 | 50.70 | 2.0 | | 1.2s | | 15.40nm | | | 5.4mb | GKN | 47.41 | 307 | P | 48 | 07.80 | -1.0 |
| CAN | 43.01 | 153 | iPc | 31 | 53.70 | 0.1 | SRO | 100.41 | 319 | ePdiff37 | 42.30 | 1.8 | | 0.7s | | 14.00nm | | | | 5.1mb |
| LSA | 43.25 | 312 | Pc | 31 | 55.20 | -1.0 | YKC | 100.72 | 24 | ePdiff37 | 42.00 | 0.5 | | | | | | | | |
| | | | S | 38 | 17.50 | | | 1.0s | | 20.00nm | | | 5.6mb | HYB | 49.42 | 291 | ePc | 48 | 24.30 | -0.1 |
| TOO | 43.48 | 158 | iPc | 31 | 59.20 | 1.8 | KSP | 100.82 | 323 | ePdiff37 | 42.80 | 0.5 | GBA | 49.81 | 286 | P | 48 | 26.00 | -1.3 | |
| | | | e | 33 | 42.00 | | KMZ | 101.12 | 257 | iPdiff37 | 45.60 | 1.0 | AVY | 80.24 | 250 | eP | 51 | 46.14 | 1.2 | |
| KUSJ | 43.53 | 19 | eP | 31 | 58.30 | 0.6 | PRU | 102.15 | 322 | ePdiff37 | 49.00 | 0.8 | PRNI | 90.15 | 300 | iPd | 52 | 36.00 | 2.0 | |
| ASAJ | 43.82 | 17 | eP | 32 | 00.80 | 0.8 | CLL | 102.63 | 324 | ePdiff37 | 51.00 | 0.7 | NOH | 90.17 | 301 | eP | 52 | 36.00 | 1.9 | |
| GTA | 44.16 | 330 | iPc | 32 | 02.50 | -0.5 | | 1.5s | | 12.00nm | | | 5.4mb | MBH | 90.28 | 300 | ePd | 52 | 36.50 | 2.0 |
| Z | 3.0s | | 0.50nm | | | 2.8mb X | KHC | 103.03 | 322 | Pdiff | 37 | 52.90 | 0.7 | INK | 91.44 | 21 | eP | 52 | 39.00 | 0.0 |
| | Z | 28s | | | | 5.5MszX | MOX | 103.69 | 324 | e(Pdiff37 | 57.00 | 2.0 | | | | | | | | |
| E | 23s | | 6.20um | | | | BNG | 107.87 | 275 | iPKPc | 42 | 23.20 | 1.0 | | S.D. = 1.2 | | on 24 of 25 obs. | | | |
| | | | i | 32 | 53.00 | | | 0.2s | | 40.00nm | | | | | | | | | | |
| DZM | 45.85 | 124 | iPc | 32 | 15.10 | -1.6 | LPG | 108.68 | 320 | ePKP | 42 | 13.60 | -9.6X | | | | | | | |
| GUN | 46.44 | 307 | Pc | 32 | 21.00 | -0.6 | | 0.7s | | 4.40nm | | | | | | | | | | |
| PKI | 46.67 | 306 | Pc | 32 | 22.30 | -1.1 | FRF | 109.53 | 318 | ePKP | 42 | 16.10 | -8.3X | TRT | 2.00 | 343 | iPd | 50 | 25.50 | 2.2 |
| KKN | 46.87 | 307 | Pc | 32 | 23.90 | -0.9 | LMR | 109.71 | 318 | ePKP | 42 | 16.80 | -8.0X | | | | | | | |
| DMN | 46.93 | 306 | Pc | 32 | 24.60 | -0.8 | MAF | 111.00 | 322 | ePKP | 42 | 14.00 | -13.2X | KHKI | 2.67 | 62 | iPd | 50 | 31.30 | -1.6 |
| GKN | 47.47 | 307 | Pc | 32 | 28.40 | -1.2 | TCF | 111.19 | 322 | ePKP | 42 | 14.00 | -13.5X | | | | | | | |
| TAU | 48.85 | 160 | eP | 32 | 40.00 | 0.2 | | 0.7s | | 4.40nm | | | | | | | | | | |
| KOD | 49.47 | 281 | eP | 32 | 44.00 | -1.4 | LSF | 111.62 | 322 | ePKP | 42 | 14.70 | -13.6X | | | | | | | |
| HYB | 49.51 | 291 | eP | 32 | 44.00 | -1.3 | GRR | 111.96 | 325 | ePKP | | | | | | | | | | |

10d 15h

| | | | | | | |
|------|-------|---------|-----|----|-------|-------|
| KNA | 16.34 | 113 | eS | 55 | 05.50 | 3.1X |
| MEKA | 17.63 | 164 | eP | 53 | 43.00 | -0.5 |
| | 0.3s | 17.00nm | | | 4.7mb | |
| MTN | 17.86 | 102 | eP | 54 | 00.00 | 1.1 |
| MRWA | 19.66 | 173 | eP | 54 | 21.00 | 0.5 |
| | | | eS | 57 | 45.00 | |
| WARB | 20.81 | 144 | eP | 54 | 26.00 | -6.4X |
| BAL | 21.13 | 172 | eP | 54 | 41.00 | 5.4X |
| KLB | 22.26 | 170 | eP | 54 | 55.00 | 8.0X |
| COOL | 22.40 | 162 | eP | 54 | 56.00 | 7.6X |
| MUN | 22.41 | 173 | eP | 54 | 58.00 | 9.5X |
| WB5 | 22.82 | 119 | eP | 54 | 52.70 | 0.1 |
| WRA | 22.83 | 119 | Pc | 54 | 51.70 | -1.0 |
| | 0.4s | 4.80nm | | | 4.3mb | |
| WB2 | 22.84 | 119 | eP | 54 | 52.70 | -0.1 |
| ASPA | 24.19 | 128 | iPc | 55 | 06.50 | 0.6 |
| | 1.5s | 35.00nm | | | 4.7mb | |

| | | | | | | |
|------|--------|---------|-----|----|---------|------|
| CHTO | 31.57 | 334 | eS | 59 | 33.20 | 1.6 |
| | 0.7s | 0.48nm | | | 3.5mb X | |
| CTA | 33.52 | 112 | eP | 56 | 31.00 | 0.8 |
| KOD | 40.68 | 298 | eP | 57 | 32.00 | 1.2 |
| GBA | 42.35 | 302 | P | 57 | 44.00 | -0.2 |
| HYB | 43.54 | 308 | eP | 57 | 53.00 | -0.9 |
| GUN | 45.75 | 325 | P | 58 | 11.10 | -0.7 |
| | 0.4s | 12.00nm | | | 5.2mb | |
| PKI | 45.75 | 325 | P | 58 | 10.60 | -1.3 |
| DMN | 45.95 | 324 | P | 58 | 12.20 | -1.2 |
| | 0.5s | 8.00nm | | | 4.9mb | |
| KKN | 45.99 | 325 | P | 58 | 13.30 | -0.3 |
| GKN | 46.52 | 324 | P | 58 | 16.60 | -1.1 |
| | 0.4s | 6.00nm | | | 4.9mb | |
| YKA | 117.04 | 23 | PKP | 08 | 34.90 | 0.9 |

S.D. = 1.1 on 20 of 28 obs.

? FEB 10, 1989 15h 55m 14.83 ± 1.02s
 37.718 N ± 9.7km 1.557 W ± 10.2km
 DEPTH = 5.0km (geophysicist)
 SPAIN (377)

MG 2.4 (MDD).

| | | | | | | |
|------|------|-----|-----|----|-------|-------|
| EALH | 0.18 | 38 | iPg | 55 | 18.70 | 0.2 |
| | | | eSg | 55 | 20.80 | |
| ENIJ | 0.91 | 215 | ePg | 55 | 32.80 | 0.0 |
| EVIA | 1.18 | 321 | ePg | 55 | 37.40 | 0.0 |
| | | | eSg | 55 | 54.00 | |
| ACU | 1.20 | 48 | ePg | 55 | 37.50 | -0.2 |
| AFC | 1.65 | 254 | ePg | 55 | 50.40 | 5.7X |
| | | | eSg | 56 | 12.20 | |
| ECHE | 1.92 | 14 | ePg | 55 | 52.00 | 3.4X |
| | | | eSg | 56 | 15.20 | |
| ETOR | 3.12 | 353 | ePg | 56 | 20.50 | 14.8X |
| | | | eSg | 56 | 56.00 | |
| GUD | 3.55 | 326 | ePg | 56 | 22.30 | 10.5X |
| | | | eSg | 57 | 04.00 | |

S.D. = 0.3 on 4 of 8 obs.

* FEB 10, 1989 15h 56m 32.67 ± 0.62s
 2.390 N ± 11.5km 126.547 E ± 16.0km
 DEPTH = 33.0km (normal)
 4.7mb (7 obs.)

MOLUCCA PASSAGE

(266)

| | | | | | | |
|------|-------|---------|-----|----|-------|-------|
| WB5 | 23.43 | 161 | eP | 01 | 40.00 | 0.1 |
| WRA | 23.48 | 161 | Pd | 01 | 40.10 | -0.3 |
| | 0.6s | 10.90nm | | | 4.5mb | |
| WB2 | 23.48 | 161 | eP | 01 | 40.00 | -0.5 |
| QIS | 26.15 | 151 | iPc | 02 | 05.30 | -0.6 |
| ASPA | 26.87 | 165 | eP | 02 | 11.70 | -0.8 |
| | | | eS | 06 | 57.80 | |
| NANU | 27.03 | 203 | eP | 02 | 15.00 | 1.1 |
| WARB | 28.41 | 180 | eP | 02 | 20.00 | -6.4X |
| MEKA | 29.86 | 195 | eP | 02 | 39.50 | 0.1 |
| CHTO | 31.57 | 303 | eP | 02 | 54.80 | 0.1 |
| | 0.9s | 4.69nm | | | 4.3mb | |
| FORR | 33.09 | 178 | eP | 03 | 07.00 | -0.6 |
| BWA | 42.00 | 153 | eP | 04 | 23.00 | 1.2 |
| CAN | 43.01 | 153 | eP | 04 | 31.30 | 0.5 |
| GUN | 46.37 | 307 | P | 04 | 58.00 | -0.3 |
| | 0.5s | 16.00nm | | | 5.2mb | |
| PKI | 46.60 | 307 | P | 04 | 59.70 | -0.4 |
| | 0.5s | 5.00nm | | | 4.7mb | |
| KKN | 46.80 | 307 | P | 05 | 01.00 | -0.5 |
| | 0.4s | 4.00nm | | | 4.8mb | |
| DMN | 46.86 | 306 | P | 05 | 02.40 | 0.3 |
| GKN | 47.40 | 307 | P | 05 | 05.60 | -0.7 |

| | | | | | | |
|-----|--------|--------|-------|----|-------|-------|
| HYB | 0.4s | 4.00nm | 4.8mb | | | |
| GBA | 49.41 | 291 | eP | 05 | 22.00 | 0.2 |
| | 49.79 | 286 | Pd | 05 | 24.50 | -0.1 |
| | 0.7s | 5.60nm | 4.7mb | | | |
| RBL | 103.88 | 319 | Pdiff | 10 | 34.80 | 1.4 |
| | | | eSn | 10 | 56.50 | |
| TRI | 103.98 | 318 | Pdiff | 10 | 29.10 | -4.6X |
| | | | eSn | 10 | 44.80 | |
| FVI | 104.34 | 319 | Pdiff | 10 | 43.00 | 7.7X |
| | | | eSn | 11 | 09.00 | |

S.D. = 0.7 on 19 of 22 obs.

* FEB 10, 1989 16h 05m 40.03 ± 0.49s
 2.440 N ± 8.7km 126.588 E ± 12.4km
 DEPTH = 33.0km (normal)
 4.8mb (10 obs.)

MOLUCCA PASSAGE

(266)

| | | | | | | |
|------|--------|---------|--------|----|-------|-------|
| KNA | 18.20 | 173 | eP | 09 | 52.00 | 0.0 |
| WB5 | 23.46 | 161 | eP | 10 | 46.90 | -0.7 |
| | | | eS | 14 | 59.00 | |
| WRA | 23.51 | 161 | Pd | 10 | 46.20 | -1.9 |
| | 0.6s | 10.00nm | | | 4.5mb | |
| WB2 | 23.51 | 161 | eP | 10 | 46.90 | -1.2 |
| | | | eS | 14 | 59.00 | |
| QIS | 26.18 | 151 | eP | 11 | 13.00 | -0.5 |
| ASPA | 26.91 | 165 | iPd | 11 | 19.50 | -0.7 |
| | 0.7s | 11.00nm | | | 4.6mb | |
| | | | eS | 16 | 05.30 | |
| NANU | 27.09 | 203 | eP | 11 | 23.40 | 1.6 |
| WARB | 28.45 | 180 | eP | 11 | 26.00 | -8.2X |
| MEKA | 29.91 | 195 | eP | 11 | 48.00 | 0.7 |
| CHTO | 31.58 | 303 | iP | 12 | 02.10 | 0.0 |
| | 0.8s | 6.59nm | | | 4.5mb | |
| BWA | 42.02 | 153 | eP | 13 | 31.80 | 1.6 |
| CAN | 43.03 | 153 | eP | 13 | 39.00 | 0.6 |
| GUN | 46.37 | 307 | P | 14 | 05.50 | -0.2 |
| | 0.6s | 30.00nm | | | 5.4mb | |
| PKI | 46.61 | 306 | P | 14 | 06.60 | -0.9 |
| | 0.5s | 7.00nm | | | 4.9mb | |
| KKN | 46.80 | 307 | P | 14 | 08.20 | -0.7 |
| | 0.6s | 10.00nm | | | 5.0mb | |
| DMN | 46.87 | 306 | P | 14 | 09.80 | 0.3 |
| GKN | 47.41 | 307 | P | 14 | 13.00 | -0.7 |
| | 0.6s | 11.00nm | | | 5.0mb | |
| HYB | 49.43 | 291 | eP | 14 | 29.00 | -0.3 |
| GBA | 49.81 | 286 | Pd | 14 | 31.20 | -1.0 |
| | 0.6s | 6.60nm | | | 4.8mb | |
| AVY | 80.26 | 250 | eP | 17 | 52.30 | 2.4 |
| IMA | 83.61 | 24 | eP | 18 | 07.60 | 1.2 |
| | 0.8s | 6.00nm | | | 4.8mb | |
| PMR | 85.14 | 29 | eP | 18 | 14.00 | 0.1 |
| | 0.8s | 3.40nm | | | 4.6mb | |
| INK | 91.41 | 21 | eP | 18 | 44.00 | 0.3 |
| FRB | 113.02 | 7 | ePdiff | 20 | 37.00 | 16.1X |

S.D. = 1.1 on 22 of 24 obs.

* FEB 10, 1989 16h 10m 05.52 ± 1.25s
 45.624 N ± 14.6km 15.582 E ± 7.4km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)

ML 2.3 (KBA). MD 3.1 (LJU).

| | | | | | | |
|-----|------|----------|-------|----|-------|------|
| VBY | 0.26 | 243 | iPg | 10 | 10.50 | -0.5 |
| | | | iSg | 10 | 14.00 | |
| ZAG | 0.34 | 55 | iPg | 10 | 12.80 | 0.2 |
| | | | iSg | 10 | 18.00 | |
| PTJ | 0.38 | 43 | iPg | 10 | 13.00 | -0.4 |
| | | | eSg | 10 | 19.30 | |
| CEY | 0.82 | 279 | ePg | 10 | 22.50 | 1.1 |
| | 0.5s | 110.00nm | | | | |
| | | | eSg | 10 | 32.50 | |
| LJU | 0.85 | 300 | ePg | 10 | 21.40 | -0.4 |
| | 0.8s | 70.00nm | | | | |
| | | | eSg | 10 | 31.10 | |
| VOY | 1.25 | 290 | iPg | 10 | 28.40 | -0.4 |
| | | | eSg | 10 | 43.50 | |
| KBA | 2.13 | 314 | iPnc | 10 | 44.70 | 3.0X |
| | | | iPg | 10 | 47.30 | |
| | | | i(Sn) | 11 | 11.00 | |
| | | | iSg | 11 | 14.40 | |

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

? FEB 10, 1989 16h 13m 50.15 ± 1.38s
 1.718 N ± 32.1km 125.771 E ± 41.9km
 DEPTH = 33.0km (normal)
 4.5mb (6 obs.)

MOLUCCA PASSAGE (266)

| | | | | | | |
|------|-------|---------|-----|----|-------|------|
| WB5 | 23.06 | 159 | eP | 18 | 54.20 | 0.3 |
| WRA | 23.11 | 159 | Pc | 18 | 54.90 | 0.5 |
| | 0.5s | 6.30nm | | | 4.4mb | |
| WB2 | 23.12 | 159 | eP | 18 | 54.20 | -0.2 |
| QIS | 25.96 | 149 | eP | 19 | 20.00 | -1.6 |
| ASPA | 26.44 | 163 | iPc | 19 | 27.20 | 1.1 |
| WARB | 27.75 | 178 | eP | 19 | 35.50 | -2.5 |
| CHTO | 31.30 | 305 | eP | 20 | 09.00 | -0.7 |
| | 0.7s | 1.27nm | | | 3.9mb | |
| BWA | 41.77 | 151 | eP | 21 | 40.20 | 2.0 |
| GUN | 46.17 | 308 | P | 22 | 13.40 | -0.8 |
| | 0.5s | 14.00nm | | | 5.2mb | |
| PKI | 46.38 | 307 | P | 22 | 15.60 | -0.3 |
| | 0.4s | 2.00nm | | | 4.4mb | |
| KKN | 46.58 | 308 | P | 22 | 17.20 | -0.1 |
| DMN | 46.64 | 307 | P | 22 | 17.80 | 0.0 |
| GKN | 47.19 | 308 | P | 22 | 21.40 | -0.6 |
| | 0.5s | 3.00nm | | | 4.6mb | |
| HYB | 48.93 | 292 | eP | 22 | 36.50 | 1.0 |
| GBA | 49.23 | 286 | Pd | 22 | 39.80 | 2.0 |
| | 0.6s | 2.80nm | | | 4.5mb | |

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

FEB 10, 1989 16h 30m 40.56 ± 0.29s
 2.465 N ± 4.7km 126.663 E ± 8.1km
 DEPTH = 33.0km (normal)
 5.1mb (17 obs.)

MOLUCCA PASSAGE (266)

| | | | | | | |
|------|-------|---------|-----|----|-------|------|
| TSM | 8.75 | 282 | ePc | 32 | 54.90 | 7.0X |
| TLE | 10.09 | 143 | ePc | 33 | 10.00 | 3.7X |
| PPR | 10.72 | 313 | ePd | 33 | 24.00 | 9.1X |
| KKM | 11.01 | 289 | ePc | 33 | 23.00 | 4.0X |
| | 1.0s | 96.90nm | | | 6.0mb | |
| KHKI | 15.40 | 226 | ePc | 34 | 24.00 | 6.8X |
| MTN | 15.84 | 164 | eP | 34 | 21.00 | -1.9 |
| TRT | 17.26 | 234 | ePc | 34 | 43.40 | 2.6 |
| | 0.7s | 34.50nm | | </ | | |

GTA 44.14 330 eP 38 47.78 -0.2
Z 27s 1.20um 4.7mszX
PP 40 34.00
GUN 46.42 307 P 39 05.90 -0.7
PKI 46.65 306 P 39 07.10 -1.3
0.7s 15.00nm 5.1mb
KKN 46.85 307 P 39 08.80 -1.0
0.7s 20.00nm 5.2mb
DMN 46.91 306 P 39 09.20 -1.2
0.9s 53.00nm 5.5mb
GKN 47.45 307 P 39 13.30 -1.2
1.0s 42.00nm 5.4mb
KOD 49.45 281 eP 39 30.00 -0.3
HYB 49.49 291 iPd 39 29.30 -1.0
GBA 49.88 286 Pc 39 32.80 -0.4
0.9s 27.40nm 5.3mb
WMO 53.72 326 eP 40 01.50 -0.3
KSH 58.86 316 eP 40 41.00 2.2
QUE 62.76 303 eP 41 05.70 0.2
MHI 70.22 308 eP 41 52.00 -0.7
0.6s 48.00nm 5.7mb
AVY 80.34 250 eP 42 51.78 0.9
IMA 83.56 24 eP 43 08.30 1.7
1.1s 20.30nm 5.2mb
JVI 89.83 302 iPd 43 38.70 1.0
NOH 90.22 301 iPd 43 41.00 1.3
RMN 90.52 300 iPd 43 41.00 0.0
INK 91.36 21 eP 43 44.00 0.0
KJF 91.70 334 eP 43 43.00 -2.7
SUF 92.64 333 eP 43 50.00 0.0
SLL 99.15 333 eP 44 17.90 -1.9
0.6s 1.60nm 4.7mb
YKA 100.67 24 PdIff 44 30.20 3.7X
PEL 145.42 154 iPKPc 50 18.10 0.6
MDZ 146.42 156 iPKPd 50 20.80 1.6
ZOBO 160.00 134 PKP 50 25.00 -14.0X
S.D. = 1.1 on 56 of 67 obs.

FEB 10, 1989 16h 59m 20.58±0.15s
6.317 N ± 3.3km 92.269 E ± 2.9km
DEPTH = 41.7km (32 depth phases)
5.3mb (54 obs.) 5.3msz (13 obs.)
NICOBAR ISLANDS REGION (704)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 21C
Centroid Location:
Origin Time 16:59:18.5 0.9
Lat 6.28N 0.09 Lon 92.04E 0.08
Dep 15.0 F1X Half-duration 2.9
Moment Tensor: Scale 10¹⁷ Nm
Mrr=-0.53 0.27 Mtt=-3.58 0.27
Mff=4.11 0.42 Mrt=0.87 0.89
Mrf=1.84 0.78 Mtf=-4.47 0.27
Principal Axes:
T Val= 6.42 Plg=11 Azm=247
N -0.34 70 10
P -6.08 16 154
Best Double Couple: Mo=6.3×10¹⁷
NP1: Strike=291 Dip=71 Slip=-176
NP2: 200 87 -19

TSI 6.87 114 e(P) 01 28.00 26.6X
eS 02 52.00
PSI 7.55 118 iP 01 07.50 -3.4X
SNG 8.33 84 eP 01 19.00 -2.8
0.8s 126.87nm 6.0mb
eS 03 23.80
IPM 8.89 101 ePc 01 25.90 -3.6X
0.4s 109.90nm 6.3mb X
e 02 03.90
e 03 04.00
NNT 9.65 49 iPd 01 39.00 -0.9
KLM 9.87 108 eP 01 38.10 -5.0X
e 03 25.50
PPI 10.54 129 eP 01 47.50 -4.7X
0.7s 34.30nm 5.6mb
e(S) 03 41.00
KGM 11.82 111 eP 02 06.00 -3.5X
NST 12.08 39 eP 02 13.20 0.2
BDT 12.70 31 eP 02 20.50 -0.8
0.8s 202.40nm 6.2mb
CHG 14.02 27 iPc 02 39.00 0.3
1.2s 199.22nm 5.7mb
eS 06 16.00
CHTO 14.02 27 iP 02 37.80 -0.9
LOE 14.39 39 eP 02 43.40 -0.1

KOD 15.15 286 eP 02 51.00 -2.9X
GBA 16.30 298 P 03 06.30 -1.9
S 05 38.00
HYB 17.36 311 eP 03 20.00 -1.6
0.8s 315.10nm 5.5mb
eS 06 10.00
KMI 21.22 27 Pc 04 06.00 0.6
N 15s 9.90um
sP 04 20.00
S 08 00.00
QIZ 21.27 52 P 04 05.80 0.1
N 13s 20.40um
eS 08 00.00
POO 21.67 306 iPc 04 09.00 -0.8
0.9s 80.67nm 5.1mb
PKI 22.12 344 P 04 14.80 0.2
DMN 22.24 343 P 04 16.30 0.6
GUN 22.32 345 P 04 17.00 0.5
KKN 22.36 344 P 04 17.00 0.2
GKN 22.75 342 P 04 21.30 0.7
LSA 23.28 358 Pc 04 27.00 0.9
N 13s 2.30um
E 13s 2.30um
PP 05 01.00
S 08 33.00
KKM 23.81 89 ePc 04 32.00 1.1
1.0s 83.10nm 5.2mb
GYA 24.28 33 P 04 36.40 1.0
E 15s 21.80um
S 08 53.00
TRT 24.63 124 ePc 04 40.00 1.3
MCO 25.88 50 eP 04 51.50 1.1
NDI 26.41 329 iPd 04 55.80 0.5
0.7s 75.34nm 5.4mb
eS 10 00.00
PPR 26.42 81 ePd 04 58.00 2.5
HKC 26.45 51 (P) 04 56.90 1.2
S 09 26.00
CD2 26.74 22 iPc 04 58.80 0.5
Z 18s 5.20um 5.1msz
E 15s 10.40um
PP 05 39.80
eS 09 27.00
BAG 29.47 68 eP 05 22.00 -1.3
eS 10 14.00
OCP 29.48 71 eP 05 15.00 -8.2X
QZH 31.28 51 eP 05 39.60 0.6
Z 16s 8.30um 5.5mszX
N 16s 16.70um
S 10 46.00
LZH 31.47 18 eP 05 40.50 -0.3
1.2s 0.12nm 2.6mb X
Z 18s 9.10um 5.5msz
N 16s 6.20um
E 14s 6.20um
eS 10 40.00
XAN 31.60 27 iPc 05 41.00 -0.8
N 14s 8.40um
E 14s 5.60um
S 10 44.80
WHN 31.80 38 Pc 05 44.00 0.5
Z 20s 7.63um 5.4msz
N 13s 5.56um
E 14s 6.49um
S 10 48.00
DAV 33.08 87 eP 05 54.00 -0.9
QUE 33.63 318 iPc 06 02.40 2.7
eS 11 29.00
GTA 33.64 11 iPd 05 59.80 0.2
Z 2.0s 0.30nm 2.9mb X
E 15s 3.30um 5.1msz
S 3.20um
pP 06 08.00 28kmX
sP 06 12.50
S 11 20.00
sS 11 34.50
NJ2 35.65 41 eP 06 18.00 1.2
N 15s 5.20um
E 14s 1.20um
KSH 36.11 338 P 06 21.50 0.8
Z 22s 7.10um 5.4msz
E 16s 8.60um
S 11 59.00
TIY 36.24 28 Pc 06 21.80 0.1
N 14s 7.70um
PP 07 51.00
S 12 00.00

SSE 36.63 44 Pc 06 26.30 1.4
sS 12 14.00
Z 1.0s 0.01nm 1.8mb X
N 18s 2.70um 5.1msz
E 14s 6.10um
3.50um
ePP 07 52.00
S 12 03.00
sS 12 22.00
eSS 14 38.00
NANU 36.63 142 eP 06 25.00 -0.1
AAI 37.22 105 eP 06 29.60 -0.6
TIA 37.47 34 Pc 06 32.90 0.9
N 14s 4.90um
E 14s 3.50um
pP 06 44.00 39km
S 12 17.50
WMO 37.57 355 iPd 06 32.70 -0.1
Z 27s 8.20um 5.4mszX
N 16s 2.90um
E 15s 3.10um
S 12 22.00
BTO 37.65 22 eP 06 33.90 0.3
Z 14s 3.90um 5.4mszX
N 14s 4.70um
sP 06 45.00
S 12 20.00
MBL 38.44 136 iPc 06 39.00 -1.3
0.6s 22.00nm 5.2mb
HHC 38.47 24 P 06 40.80 0.3
Z 24s 5.60um 5.3mszX
N 13s 3.30um
E 13s 4.40um
S 12 35.00
BJI 39.85 29 P 06 53.00 1.2
Z 24s 3.60um 5.1mszX
N 15s 3.30um
E 15s 2.30um
eS 12 56.00
MEKA 41.47 143 iPd 07 05.80 0.5
0.6s 49.00nm 5.4mb
DL2 41.90 35 Pc 07 10.00 1.4
Z 20s 1.50um 4.9msz
E 18s 4.10um
S 13 27.00
TLE 42.12 106 ePc 07 09.50 -1.2
KNA 42.27 122 eP 07 10.00 -2.0
MHI 42.30 319 eP 07 14.00 1.8
MTN 43.05 116 eP 07 16.00 -2.4
BAL 43.54 149 eP 07 23.00 0.8
MUN 44.40 150 eP 07 30.00 0.9
KLB 44.87 149 eP 07 33.00 0.1
SNY 44.98 33 iPc 07 34.00 0.4
Z 36s 2.80um 4.9mszX
N 26s 6.00um
S 14 07.00
NWA0 45.67 150 eP 07 40.00 0.8
COOL 46.17 145 eP 07 44.00 0.8
WARB 46.43 136 eP 07 38.00 -7.3X
CN2 47.33 33 Pc 07 52.50 0.3
N 20s 5.20um
pP 07 59.00 22kmX
S 14 42.00
KMSA 48.35 292 eP 08 00.00 -0.6
WB5 48.91 123 iPc 08 04.00 -0.8
eS 15 17.50
WRA 48.92 123 Pc 08 03.60 -1.3
0.7s 49.50nm 5.6mb
WB2 48.93 123 iPc 08 04.00 -1.0
eS 15 17.50
ARO 49.05 280 iP+ 08 20.00 14.0X
KER 50.12 310 eP 08 16.00 1.9
MDJ 50.13 34 Pc 08 15.00 1.2
Z 20s 2.65um 5.2msz
E 16s 2.28um
S 15 28.00
ASPA 50.39 128 iPc 08 15.10 -1.0
0.5s 57.00nm 5.8mb
Z 22s 4.22um 5.4mszX
ePP 08 26.70 41km
eS 15 33.10
LR 31 01.30
FORR 50.41 139 eP 08 15.00 -1.1
0.4s 24.00nm 5.6mb
AVY 50.54 239 eP 08 19.78 2.2
SLY 51.82 311 ePd 08 27.00 0.3
TAB 52.22 314 eP 08 31.00 1.0

10d 17h

| | | | | | | | | | | | | | | | | | |
|------|-------|-----|----------|----------|--------|------|-------|----------|--------|----------|----------|------|--------|-----|---------|----------|---------|
| QIS | 53.62 | 121 | eP | 08 39.00 | -1.4 | GRM | 73.57 | 233 | eP | 10 54.00 | 2.4 | NB2 | 80.17 | 331 | P | 11 26.50 | -1.4 |
| | | | e | 08 51.00 | 42km | | 1.5s | 250.00nm | | | 6.0mb | | 0.8s | | 9.10nm | | 4.8mb |
| MSL | 53.88 | 311 | eP | 08 47.50 | 5.5X | SUF | 73.59 | 334 | iP | 10 50.10 | -1.0 | MDI | 80.32 | 315 | P | 11 29.50 | 0.6 |
| NAI | 55.88 | 264 | iPc | 09 11.00 | 13.8X | | 0.7s | 30.40nm | | | 5.4mb | BOB | 80.49 | 314 | P | 11 31.50 | 1.5 |
| NPA | 56.68 | 247 | eP | 09 02.00 | -0.7 | NUR | 73.60 | 332 | eP | 10 50.00 | -1.2 | CVF | 80.91 | 312 | eP | 11 31.50 | -0.7 |
| MBH | 58.68 | 301 | ePd | 09 17.50 | 0.9 | | 0.6s | 9.10nm | | | 4.9mb | | 0.7s | | 11.90nm | | 5.0mb |
| PRNI | 58.70 | 302 | iPd | 09 17.00 | 0.3 | Z | 23s | 5.40um | | | 5.8MszX | VAI | 80.98 | 315 | P | 11 32.70 | 0.3 |
| NOH | 58.80 | 302 | iPd | 09 17.20 | -0.3 | | | | | | 29kmX | CKI | 81.33 | 314 | P | 11 35.50 | 1.2 |
| BHL | 58.96 | 306 | P | 09 19.00 | 0.4 | | | | | | 47 00.00 | ORO | 81.53 | 315 | P | 11 34.50 | -1.0 |
| | | | S | 17 43.00 | | KIM | 73.63 | 238 | iPd | 10 52.00 | -0.2 | SBF | 81.94 | 313 | eP | 11 37.00 | -0.6 |
| CTA | 59.20 | 118 | iPd | 09 19.90 | -0.4 | | | | | | 11 04.00 | | 0.7s | | 22.90nm | | 5.3mb |
| | 0.9s | | 24.37nm | | 5.3mb | KRA | 73.86 | 320 | eP | 10 52.50 | -0.4 | CDF | 81.99 | 318 | eP | 11 37.00 | -0.8 |
| | | | i | 09 31.00 | 38km | Z | 18s | 1.50um | | | 5.3Msz | DOI | 82.07 | 314 | P | 11 30.50 | -7.8X |
| | | | iS | 17 26.00 | | | | | | | 11 05.40 | WTS | 82.27 | 322 | eP | 11 42.00 | 3.0X |
| ADE | 59.99 | 137 | eP | 09 25.20 | -0.3 | SRO | 74.58 | 318 | eP | 10 57.20 | 0.1 | | 0.7s | | 11.00nm | | 5.0mb |
| | 0.8s | | 79.10nm | | 5.9mb | | | | | | 11 10.60 | | | | | | 35km |
| STK | 60.41 | 132 | eP | 09 27.00 | -1.4 | SOD | 74.96 | 339 | iP | 10 57.80 | -1.2 | BSF | 82.32 | 317 | eP | 11 38.70 | -0.9 |
| BBTK | 62.74 | 312 | eP | 09 43.00 | -1.1 | | | | | | 11 11.70 | LPG | 82.40 | 315 | eP | 11 39.80 | -0.4 |
| CMS | 63.41 | 130 | eP | 09 48.00 | -0.5 | TDS | 75.17 | 309 | P | 11 00.00 | -0.7 | | 0.6s | | 20.20nm | | 5.3mb |
| RMQ | 63.68 | 124 | eP | 09 51.00 | 0.6 | ZST | 75.43 | 318 | iP | 11 01.70 | -0.3 | BN1 | 82.46 | 315 | P | 11 40.50 | 0.1 |
| | | | e | 10 03.00 | 41km | | | | | | 11 14.50 | FRF | 82.52 | 313 | eP | 11 40.10 | -0.4 |
| BCK | 63.81 | 309 | eP | 09 47.40 | -3.8X | KEV | 75.69 | 341 | eP | 11 05.00 | 1.9 | | 0.7s | | 14.10nm | | 5.1mb |
| ELL | 64.18 | 308 | iP | 09 53.00 | -0.7 | | 0.7s | 20.00nm | | | 5.2mb | HAU | 82.62 | 318 | eP | 11 40.40 | -0.6 |
| TOO | 66.01 | 136 | eP | 10 06.00 | 0.7 | | | | | | 11 16.00 | | 0.8s | | 16.10nm | | 5.1mb |
| IZM | 66.57 | 309 | eP | 10 09.10 | 0.2 | SOP | 75.74 | 317 | eP | 11 03.20 | -0.6 | LMR | 82.63 | 313 | eP | 11 40.70 | -0.4 |
| BWA | 66.66 | 132 | eP | 10 11.10 | 1.6 | MGR | 75.80 | 310 | P | 11 02.00 | -2.3 | WLF | 82.71 | 319 | iPc | 11 44.50 | 3.2X |
| BRS | 67.35 | 123 | P | 10 13.50 | -0.5 | VKA | 75.96 | 318 | eP | 11 05.50 | 0.5 | | | | | | 37km |
| | | | i | 10 25.50 | 41km | | 0.8s | 83.60nm | | | 5.8mb | LRG | 82.73 | 313 | eP | 11 41.40 | -0.2 |
| | | | i | 10 34.00 | | | | | | | 11 17.80 | MEM | 82.79 | 320 | P | 11 45.40 | 3.7X |
| | | | eS | 19 12.00 | | KSP | 76.28 | 321 | eP | 11 06.70 | -0.1 | DOU | 83.71 | 320 | P | 11 47.60 | 1.1 |
| | | | e | 26 48.00 | | | 1.0s | 56.00nm | | | 5.5mb | SNF | 83.89 | 320 | P | 11 48.20 | 0.8 |
| CAN | 67.48 | 132 | eP | 10 15.50 | 0.8 | | | | | | 11 20.20 | LBF | 84.26 | 317 | eP | 11 48.80 | -0.6 |
| COO | 67.78 | 127 | eP | 10 18.00 | 1.3 | VBV | 76.42 | 315 | e(P) | 11 08.20 | 0.5 | | 0.8s | | 12.00nm | | 5.1mb |
| | | | e | 10 29.00 | 36km | UPP | 76.87 | 330 | iP | 11 18.50 | 8.7X | LOR | 84.33 | 317 | eP | 11 49.20 | -0.5 |
| BUL | 67.85 | 245 | iPd | 10 17.20 | -0.2 | | | | | | 11 22.00 | SMF | 84.38 | 316 | eP | 11 49.30 | -0.6 |
| | 0.9s | | 8.40nm | | 4.8mb | LJU | 76.97 | 316 | e(P) | 11 13.00 | 2.3 | | 0.7s | | 10.30nm | | 5.1mb |
| | | | iP | 10 29.30 | 41km | SDI | 77.21 | 311 | P | 11 14.00 | 1.8 | SSF | 84.58 | 317 | eP | 11 50.80 | -0.1 |
| JMB | 67.89 | 313 | iPd | 10 18.00 | 0.9 | PRU | 77.30 | 320 | P | 11 12.50 | 0.1 | AVF | 84.70 | 316 | eP | 11 51.00 | -0.5 |
| VRI | 68.55 | 317 | ePd | 10 21.00 | -0.2 | | Z | 18s | 1.50um | | 5.4Msz | | 0.8s | | 5.90nm | | 4.8mb |
| DIM | 68.57 | 313 | eP | 10 19.00 | -2.3 | | E | 18s | 1.10um | | | | | | | | |
| KDZ | 68.58 | 312 | iP | 10 21.00 | -0.5 | VOY | 77.41 | 316 | eP | 11 13.40 | 0.1 | BGF | 85.07 | 316 | eP | 11 53.30 | -0.1 |
| KMZ | 68.82 | 253 | iPc | 10 24.80 | 1.3 | RBL | 77.66 | 316 | P | 11 14.60 | 0.0 | | 0.7s | | 13.60nm | | 5.2mb |
| | | | i | 10 36.20 | 38km | BRG | 77.76 | 321 | eP | 11 16.00 | 1.1 | MAF | 85.28 | 316 | eP | 11 54.30 | -0.2 |
| | | | i | 10 56.00 | | | 1.5s | 15.00nm | | | 4.8mb | CAF | 85.73 | 315 | eP | 11 56.90 | 0.1 |
| PVL | 68.95 | 314 | iPd | 10 22.00 | -1.6 | | N | 20s | 2.00um | | | | 0.9s | | 8.10nm | | 4.9mb |
| VSG | 68.96 | 102 | eP | 10 24.00 | -0.2 | | E | 20s | 1.50um | | | RJF | 86.09 | 315 | eP | 11 58.70 | 0.2 |
| MLR | 69.00 | 316 | iPc | 10 24.00 | -0.1 | KHC | 77.85 | 319 | Pc | 11 16.00 | 0.4 | | 0.7s | | 7.40nm | | 5.0mb |
| RZN | 69.10 | 312 | iPc | 10 24.00 | -0.9 | | 0.7s | 7.00nm | | | 4.8mb | LPO | 86.38 | 314 | eP | 12 00.30 | 0.4 |
| HNR | 69.22 | 103 | eP | 10 30.00 | 4.2X | | | | | | 11 29.00 | | 0.7s | | 13.20nm | | 5.3mb |
| PGB | 69.66 | 313 | eP | 10 25.00 | -3.1X | KBA | 77.86 | 317 | iP | 11 14.50 | -1.3 | LFF | 86.67 | 315 | eP | 12 01.70 | 0.4 |
| MMB | 69.82 | 312 | eP | 10 28.00 | -1.0 | | 0.8s | 18.60nm | | | 5.2mb | LDF | 86.89 | 318 | eP | 12 02.00 | -0.3 |
| TAU | 69.87 | 140 | eP | 10 30.00 | 0.8 | | | | | | 11 18.30 | | 8.0s | | 13.40nm | | 4.2mb X |
| BPI | 70.11 | 239 | eP | 10 31.50 | 0.2 | | | | | | 11 28.10 | FLN | 87.11 | 319 | eP | 12 03.00 | -0.4 |
| | 0.5s | | 112.68nm | | 6.1mb | | | | | | 11 48.10 | MFF | 87.12 | 316 | eP | 12 03.10 | -0.4 |
| VTS | 70.37 | 313 | iP | 10 31.00 | -1.5 | MNS | 78.08 | 312 | P | 11 16.00 | -1.0 | LPF | 87.56 | 318 | eP | 12 05.60 | 0.0 |
| VAY | 70.63 | 312 | eP | 10 32.50 | -1.5 | FVI | 78.22 | 316 | P | 11 17.20 | -0.3 | EKA | 87.94 | 325 | Pd | 12 04.70 | -2.5 |
| PRY | 70.81 | 239 | eP | 10 26.50 | -9.0X | CLL | 78.39 | 321 | eP | 11 18.00 | -0.4 | | 0.9s | | 14.50nm | | 5.2mb |
| | 0.8s | | 28.13nm | | 5.3mb | | 1.5s | 28.00nm | | | 5.0mb | DAG | 88.62 | 348 | iPd | 12 09.20 | -0.9 |
| | | | i | 10 39.00 | 43km | | | | | | 11 30.00 | | 0.8s | | 12.69nm | | 5.3mb |
| SKO | 71.57 | 312 | eP | 10 38.00 | -1.6 | CRE | 78.67 | 313 | P | 11 20.00 | -0.2 | ETOR | 89.18 | 311 | e(P) | 12 15.00 | 1.4 |
| | N | 20s | 2.35um | | | SFI | 78.75 | 313 | P | 11 32.70 | 12.2X | ALE | 90.55 | 357 | eP | 12 19.00 | -0.1 |
| | E | 20s | 2.15um | | | PGD | 78.84 | 313 | Pc | 11 22.50 | 1.2 | | 0.7s | | 23.00nm | | 5.6mb |
| CGY | 71.58 | 240 | eP | 10 27.00 | -12.9X | HFS | 78.86 | 330 | eP | 11 19.80 | -1.0 | GUD | 90.79 | 311 | e(P) | 12 21.00 | -0.1 |
| | 0.7s | | 116.44nm | | | | 0.7s | 16.50nm | | | 5.1mb | APHE | 90.99 | 307 | eP | 12 23.00 | 0.9 |
| | | | i | 10 39.50 | 43km | CTI | 78.97 | 316 | P | 11 21.10 | -0.8 | ATEJ | 91.25 | 307 | eP | 12 25.00 | 1.6 |
| OHR | 71.92 | 311 | eP | 10 39.80 | -2.0 | | | | | | 11 34.70 | AAPN | 91.28 | 308 | eP | 12 15.00 | -8.4X |
| | | | i | 10 52.60 | 44km | FIR | 79.17 | 313 | eP | 11 36.00 | 13.2X | EHOR | 92.08 | 308 | e(P) | 12 28.00 | 1.1 |
| LSK | 71.95 | 310 | eP | 10 35.40 | -6.7X | MOX | 79.22 | 320 | eP | 11 22.00 | -1.0 | EPRU | 92.21 | 307 | e(P) | 12 29.00 | 1.4 |
| BZS | 72.00 | 316 | eP | 10 42.50 | 0.4 | | 1.9s | 73.00nm | | | 5.3mb | IMA | 93.75 | 22 | P | 12 34.70 | 0.4 |
| PHP | 72.27 | 312 | eP | 10 41.60 | -2.1 | | N | 22s | 1.50um | | | | 0.8s | | 6.03nm | | 5.1mb |
| KKS | 72.34 | 312 | eP | 10 43.50 | -0.7 | | | | | | 11 36.00 | MBC | 95.53 | 7 | eP | 12 42.00 | -0.1 |
| TPE | 72.42 | 310 | eP | 10 45.50 | 0.8 | | | | | | 46 30.00 | | 0.9s | | 22.00nm | | 5.6mb |
| BERA | 72.51 | 311 | eP | 10 43.50 | -1.7 | | | | | | 54 00.00 | KIC | 96.23 | 277 | P | 12 47.60 | 1.2 |
| BCI | 72.63 | 312 | eP | 10 47.40 | 1.5 | CER | 79.41 | 234 | eP | 11 36.00 | 11.6X | INK | 98.99 | 16 | eP | 12 58.00 | 0.2 |
| TIR | 72.65 | 311 | eP | 10 51.70 | 5.7X | | 0.4s | 22.73nm | | | | FFC | 118.03 | 9 | ePKP | 18 05.00 | 0.6 |
| SDA | 73.01 | 312 | eP | 10 47.30 | -0.8 | | | | | | 11 46.00 | | 0.5s | | 4.00nm | | |
| BNG | 73.37 | 273 | iPc | 10 51.20 | 0.4 | GRF | 79.42 | 319 | ePKP | 11 25.30 | 1.2 | LON | 119.13 | 26 | PKP | 18 06.00 | -0.9 |
| | 1.1s | | 55.00nm | | 5.4mb | Z | 20s | 1.40um | | | 5.3Msz | SES | 120.02 | 17 | ePKP | 18 09.00 | 0.6 |
| | | | i | 11 04.00 | 44km | | | | | | 11 37.90 | RSON | 122.82 | 5 | PKP | 18 13.00 | -0.7 |
| | | | i | 11 59.00 | | TUH | 79.51 | 235 | eP | 11 27.00 | 2.1 | | Z | 22s | 3.92um | | 6.0Msz |
| KJF | 73.43 | 336 | iP | 10 49.00 | -1.1 | | 0.5s | 56.34nm | | | 5.8mb | LRM | 123.59 | 21 | ePKP | 18 14.20 | -1.5 |
| | 0.7s | | 45.40nm | | 5.5mb | BDI | 79.66 | 314 | P | 11 25.00 | -0.6 | CMB | 126.43 | 32 | e(PKP) | 18 34.50 | 13.3X |
| | | | i | 11 02.00 | 45km | PII | 79.70 | 313 | P | 11 25.00 | -0.7 | KVN | 126.81 | 29 | PKP | 18 23.00 | 0.9 |
| FRS | 73.47 | 237 | eP | 10 52.00 | 1.0 | SAL | 79.74 | 315 | P | 11 30.00 | 4.1X | PRS | 127.14 | 34 | e(PKP) | 18 36.40 | 13.8X |
| | 0.5s | | 45.77nm | | 5.7mb | NRA0 | 79.99 | 330 | P | 11 25.40 | -1.5 | BW06 | 127.26 | 20 | PKP | 18 22.00 | -0.9 |
| SPC | 73.52 | 319 | eP | 11 03 | | | | | | | | | | | | | |

1.0s 5.83nm
MSU 129.95 25 PKP 18 29.00 0.8
ALO 135.32 22 PKP 18 35.00 -3.4X
1.0s 15.00nm
Z 22s 0.39um 5.1msz
ALO 135.32 22 ePKP 18 39.50 1.1
ATB 144.50 273 e(PKP) 18 52.50 -2.7X
MDZ 148.26 211 ePKP 19 01.40 0.4
CNCB 158.04 240 PKP 19 18.00 2.3X
LPB 158.27 240 PKP 19 20.80 5.0X
eLR 14 34.00
ZOBO 158.40 241 PKP 19 17.00 0.8
Z 24s 0.86um 5.5mszX
LR 14 04.00
S.D. = 1.1 on 210 of 246 obs.

* FEB 10, 1989 17h 47m 39.00±0.91s
54.368 N ±14.2km 142.823 E ±16.4km
DEPTH = 33.0km (normal)
4.7mb (6 obs.)

SAKHALIN ISLAND (662)

MDJ 12.99 227 eP 50 44.00 0.3
Z 15s 3.92um 3.6msz
E 10s 4.10um
CN2 15.49 234 eP 51 15.20 -1.2
N 14s 4.40um
pP 51 20.20
S 54 04.00
SNY 17.89 233 eP 51 45.20 -1.4
N 12s 2.80um
E 11s 3.00um
DL2 21.11 232 eP 52 26.70 3.9X
BJI 22.91 242 eP 52 39.50 -1.2
Z 12s 1.30um 4.6mszX
HHC 24.79 250 eP 52 59.20 0.1
TIA 25.39 235 Pc 53 04.50 -0.2
BTO 25.82 251 eP 53 10.50 1.7
TIY 26.59 244 eP 53 16.20 0.4
N 11s 2.00um
S 57 34.50
GTA 32.41 260 eP 54 06.80 -1.0
Z 12s 1.30um 4.8mszX
E 12s 3.00um
CD2 36.39 246 eP 54 40.50 -1.5
Z 12s 1.10um 4.9mszX
N 13s 1.40um
WMO 36.71 277 eP 54 46.50 1.9
GYA 38.47 238 P 55 02.40 2.8
INK 39.03 36 eP 55 04.00 0.4
GUN 48.70 261 PKP 56 27.80 5.5X
CHTO 48.74 241 eP 56 21.10 -1.2
1.0s 5.25nm 4.5mb
YKA 48.77 37 P 56 25.00 3.0X
KKN 49.13 261 PKP 56 28.80 3.3X
PKI 49.22 261 PKP 56 27.60 1.2
GKN 49.34 262 PKP 56 26.60 -0.5
1.0s 32.00nm 5.3mb
DMN 49.37 261 PKP 56 28.20 0.8
SOD 49.63 333 eP 56 27.00 -1.5
KJF 51.65 330 eP 56 44.00 0.0
SUF 53.23 329 iP 56 55.40 -0.4
0.5s 3.00nm 4.5mb
NUR 55.39 328 eP 57 12.00 0.4
PNT 55.75 52 eP 57 16.00 1.5
NB2 58.72 335 P 57 33.90 -1.4
1.0s 8.70nm 4.8mb
SES 58.74 46 eP 57 35.00 -0.6
HFS 58.85 333 ePKP 57 34.70 -1.5
0.4s 2.20nm 4.6mb
FRB 59.73 16 eP 57 40.00 -2.2
CLL 66.67 328 eP 58 30.00 1.9
e 58 44.00
KHC 68.39 327 iPc 58 42.00 3.0X
KBA 70.26 326 eP 58 53.00 2.3
1.0s 10.60nm 4.9mb
S.D. = 1.4 on 28 of 33 obs.

? FEB 10, 1989 17h 55m 11.36±7.47s
10.823 N ±32.0km 62.851 W ±65.8km
DEPTH = 33.0km (normal)
NEAR COAST OF VENEZUELA (97)
MG 4.2 (FDF).

TCE 1.09 97 eP 55 31.01 0.7
eS 55 42.51
TRN 1.43 97 eP 55 34.48 -0.8

eS 55 47.03
TPP 1.47 110 eP 55 35.75 0.0
eS 55 51.33
SVB 2.89 33 eP 55 56.22 0.0
eS 56 29.30
SVV 2.95 33 eP 55 57.14 0.1
eS 56 31.28
BIM 4.06 25 iPc 56 12.81 0.0
S 56 57.80
MVM 4.17 27 eP 56 14.05 -0.3
FDF 4.23 23 eP 56 15.24 0.1
CRM 4.34 26 eP 56 16.70 0.0
S.D. = 0.4 on 9 of 9 obs.

* FEB 10, 1989 18h 30m 43.48±0.46s
2.361 N ±9.2km 126.632 E ±12.1km
DEPTH = 33.0km (normal)
4.8mb (11 obs.)

MOLUCCA PASSAGE (266)

MTN 15.75 164 eP 34 24.00 -0.7
KNA 18.12 173 eP 34 54.00 -0.4
0.7s 80.00nm 5.0mb
WB5 23.37 161 iPc 35 50.00 -0.2
WRA 23.42 161 Pc 35 50.70 0.0
0.4s 9.90nm 4.7mb
WB2 23.43 161 iPc 35 50.00 -0.7
OIS 26.09 151 eP 36 15.00 -1.1
ASPA 26.82 165 iPc 36 22.40 -0.5
0.8s 14.00nm 4.6mb
NANU 27.04 203 iPd 36 26.50 1.7
WARB 28.38 180 iPd 36 31.30 -5.6X
CTA 29.47 140 eP 36 46.00 -0.9
CHTO 31.66 303 iP 37 06.00 -0.2
0.8s 14.09nm 4.9mb
STK 36.90 159 eP 37 51.00 0.0
e 38 43.00
ADE 38.82 164 iPd 38 08.10 0.9
BRS 38.85 141 iPc 38 06.00 -1.6
e 38 12.00
COO 40.66 146 eP 38 23.00 0.5
BWA 41.93 153 eP 38 34.30 1.4
CAN 42.94 153 eP 38 41.90 0.8
GUN 46.46 307 P 39 09.40 -0.4
0.6s 27.00nm 5.4mb
PKI 46.69 306 P 39 10.60 -1.0
0.5s 4.00nm 4.6mb
KKN 46.88 307 P 39 12.40 -0.6
0.5s 9.00nm 5.0mb
DMN 46.95 306 P 39 12.80 -0.8
0.7s 14.00nm 5.1mb
GKN 47.49 307 P 39 16.80 -1.0
0.6s 7.00nm 4.9mb
HYB 49.50 291 eP 39 34.00 0.7
GBA 49.88 286 Pc 39 35.60 -0.5
0.8s 7.80nm 4.8mb
AVY 80.28 250 eP 42 55.60 2.2
IMA 83.67 24 eP 43 12.00 1.9
0.8s 5.10nm 4.7mb
PMR 85.19 29 eP 43 18.10 0.6
S.D. = 1.0 on 26 of 27 obs.

FEB 10, 1989 18h 51m 12.93±0.90s
39.715 N ±8.9km 26.361 E ±8.4km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

EZN 0.11 346 iPg 51 15.40 -0.4
EDC 1.31 61 iPn 51 37.50 0.3
IZM 1.49 152 ePn 51 39.10 -0.7
DST 1.75 93 iPn 51 44.70 1.1
KDZ 2.06 340 iP 51 48.00 0.0
iS 52 15.00
RZN 2.33 328 iP 51 53.00 0.9
DMK 2.36 26 iPn 51 51.00 -1.3
MMB 2.74 314 eP 51 58.00 0.2
VAY 3.31 300 eP 52 14.40 8.7X
S.D. = 0.9 on 8 of 9 obs.

& FEB 10, 1989 19h 31m 01.45s
62.302 N 151.327 W
DEPTH = 89.2km
CENTRAL ALASKA (1)
<AGS-P>.

PWA 0.95 133 eP 31 20.01 -0.7
eS 31 34.94

CRP 1.11 201 eP 31 21.64 -1.2
eS 31 39.48
SPU 1.18 197 eP 31 23.22 -0.3
eS 31 39.79
GHO 1.25 114 iP 31 23.60 -0.9
eS 31 41.42
PLRM 1.26 123 eP 31 23.23 -1.2
PME 1.28 121 eP 31 23.61 -1.1
PMS 1.35 141 iP 31 24.69 -1.0
eS 31 43.25
SML 1.49 108 iP 31 26.22 -1.3
NKA 1.57 178 eP 31 29.78 1.4
KNK 1.63 122 eP 31 27.76 -1.5
PTE 1.82 142 eP 31 30.09 -0.6
SLKM 1.88 163 eP 31 31.70 -0.9
RED 2.01 201 eP 31 34.49 0.1
TTA 2.26 288 eP 31 36.87 -0.8
KLU 2.69 105 eP 31 40.78 -2.8
CNPM 2.79 179 eP 31 45.88 1.0
CCB 2.83 32 eP 31 43.61 -1.9
17 obs. associated

FEB 10, 1989 19h 56m 54.02±0.16s
2.445 N ±3.0km 126.612 E ±4.4km
DEPTH = 33.0km (normal)
5.5mb (26 obs.)

MOLUCCA PASSAGE (266)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

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

Centroid Location:

Origin Time 19:57: 3.1 0.8

Lat 2.82N 0.08 Lon 126.75E 0.08

Dep 15.0 FIX Half-duration 2.5

Moment Tensor; Scale 10¹⁷ Nm

Mrr=2.57 0.18 Mtt=-0.85 0.15

Mff=-1.71 0.25 Mrt=-2.24 0.57

Mrf=0.02 0.55 Mtf=-1.15 0.16

Principal Axes:

T Vol= 3.73 Plg=62 Azm=192

N -0.84 22 52

P -2.89 16 316

Best Double Couple: Mo=3.3*10¹⁷

NP1: Strike= 17 Dip=35 Slip= 49

NP2: 244 65 115

DAV 4.73 347 eP 58 08.00 3.2X
eS 59 10.50
AAI 6.29 165 eP 58 31.50 4.5X
TSM 8.71 282 eP 59 05.90 5.2X
MKS 10.43 223 ePd 59 28.50 4.0X
KKM 10.97 289 ePd 59 36.90 5.0X
0.6s 101.80nm 6.2mb
KUPT 12.87 193 ePd 59 39.50 -17.8X
eS 59 48.00
BAG 15.09 337 eP 00 30.00 3.2X
eS 03 18.00
KHKI 15.35 226 ePd 00 37.00 7.0X
MTN 15.84 164 eP 00 34.00 -2.3
TRT 17.21 234 ePc 00 55.80 2.2
0.8s 102.70nm 5.0mb
KNA 18.20 173 eP 01 05.00 -1.0
MNDI 19.04 117 eP 01 18.00 1.5
GUMO 21.17 57 eP 01 37.70 -1.3
OIZ 23.26 316 eP 02 00.60 0.9
E 18s 1.90um
eS 06 02.00
KGM 23.28 269 ePc 02 05.40 5.5X
WB5 23.46 161 eP 02 00.20 -1.4
eS 06 08.00
WRA 23.51 162 Pc 02 00.90 -1.2
0.6s 99.90nm 5.5mb
WB2 23.51 161 eP 02 00.20 -1.9
eS 06 08.00
PMG 23.61 120 e(P) 02 04.00 0.9
1.0s 36.00nm 4.8mb
OZH 23.67 342 eP 02 03.80 0.3
Z 28s 6.70um 5.0mszX
N 28s 6.70um
S 06 12.00
GZH 24.22 329 iPc 02 08.70 -0.2
S 06 21.20
MBL 24.38 195 eP 02 11.00 0.5
0.5s 16.00nm 4.8mb
IPM 25.63 275 ePd 02 23.20 0.7
1.0s 65.80nm 5.2mb
OIS 26.17 151 eP 02 24.00 -3.4X

10d 20h

| | | | | | | | | | | | | | | | | | |
|------|-------|----------|------|----------|-------|------|--------|--------|-------|----------|-------|------|--------|-----|-------|----------|-------|
| ASPA | 26.91 | 165 | iPd | 02 26.00 | -2.2 | MRRJ | 41.86 | 16 | eP | 04 45.20 | 2.6 | SAN | 145.17 | 154 | ePKP | 16 31.00 | 0.5 |
| | 0.8s | 82.00nm | | 5.4mb | | BWA | 42.02 | 153 | iPd | 04 45.30 | 1.2 | PEL | 145.42 | 154 | iPKPc | 16 31.50 | 0.6 |
| | | | ePcP | 05 54.80 | | | | | e | 06 23.30 | | FCH | 145.44 | 155 | ePKPd | 16 33.50 | 2.2X |
| | | | eS | 07 08.50 | | HOJJ | 42.47 | 18 | eP | 04 48.10 | 0.4 | MDZ | 146.42 | 156 | iPKPd | 16 33.90 | 1.3 |
| | | | eScS | 09 55.70 | | CAN | 43.02 | 153 | iPd | 04 52.60 | 0.3 | ARE | 157.39 | 129 | ePKP | 17 00.00 | 10.8X |
| NANU | 27.11 | 203 | eP | 02 36.00 | 0.0 | | | | e | 06 31.20 | | CNCB | 159.76 | 136 | PKP | 16 54.00 | 1.8 |
| | 0.4s | 12.00nm | | 4.9mb | | CNB | 43.19 | 152 | eP | 04 54.00 | 0.3 | LPB | 159.87 | 135 | PKP | 16 55.00 | 2.8X |
| PSI | 27.66 | 271 | ePc | 02 41.00 | -0.1 | LSA | 43.20 | 312 | Pc | 04 54.80 | 0.4 | ZOBO | 160.02 | 134 | PKP | 16 54.30 | 1.8 |
| NNT | 28.45 | 292 | eP | 02 49.00 | 0.7 | TOO | 43.49 | 158 | eP | 04 57.00 | 0.9 | | | | | | |
| WARB | 28.46 | 180 | eP | 02 41.40 | -6.8X | KUSJ | 43.58 | 19 | eP | 04 56.70 | 0.1 | | | | | | |
| | 0.5s | 43.00nm | | 5.4mb | | ASAJ | 43.86 | 17 | eP | 04 59.30 | 0.4 | | | | | | |
| LOE | 28.60 | 303 | eP | 02 48.00 | -0.8 | GTA | 44.14 | 330 | P | 05 01.00 | -0.4 | | | | | | |
| SSE | 28.95 | 350 | eP | 02 54.00 | 1.4 | | | | | | | | | | | | |
| | 0.9s | 0.01nm | | 1.6mb X | | Z | 28s | 4.00um | | 5.2mszX | | | | | | | |
| E | 18s | 1.10um | | | | E | 21s | 2.40um | | | | | | | | | |
| | | | eS | 07 36.00 | | | | | PP | 06 47.00 | | | | | | | |
| NST | 29.21 | 298 | eP | 02 55.00 | -0.1 | DZM | 45.90 | 124 | iPc | 05 14.00 | -1.7 | | | | | | |
| CTA | 29.55 | 140 | iPd | 02 57.30 | -0.8 | GUN | 46.39 | 307 | P | 05 18.90 | -0.9 | | | | | | |
| | 1.1s | 73.42nm | | 5.3mb | | PKI | 46.62 | 306 | P | 05 20.30 | -1.3 | | | | | | |
| | | | iS | 07 49.00 | | KKN | 46.82 | 307 | P | 05 21.80 | -1.3 | | | | | | |
| MEKA | 29.92 | 195 | eP | 03 01.00 | -0.4 | DMN | 46.88 | 306 | P | 05 22.40 | -1.2 | | | | | | |
| | 0.4s | 29.00nm | | 5.4mb | | GKN | 47.42 | 307 | P | 05 26.40 | -1.4 | | | | | | |
| WHN | 30.26 | 339 | Pd | 03 04.30 | 0.0 | KOD | 49.40 | 281 | eP | 05 43.00 | -0.4 | | | | | | |
| | | | | | | HYB | 49.45 | 291 | eP | 05 42.00 | -1.4 | | | | | | |
| | | | | | | | | | 1.0s | 150.00nm | 6.0mb | | | | | | |
| NJ2 | 30.34 | 347 | Pd | 03 06.00 | 1.0 | GBA | 49.84 | 286 | P | 05 44.90 | -1.5 | | | | | | |
| GYA | 30.61 | 323 | P | 03 07.80 | 0.3 | WMQ | 53.71 | 326 | P | 06 14.00 | -1.2 | | | | | | |
| BDT | 30.85 | 300 | eP | 03 09.30 | -0.3 | NDI | 53.73 | 304 | eP | 06 13.00 | -2.5 | | | | | | |
| | 0.7s | 68.70nm | | 5.6mb | | POO | 54.06 | 291 | iPc | 06 17.00 | -1.0 | | | | | | |
| CHG | 31.60 | 303 | iPc | 03 15.70 | -0.6 | KSH | 58.84 | 316 | P | 06 54.00 | 1.9 | | | | | | |
| | 1.0s | 77.00nm | | 5.5mb | | MSZ | 59.61 | 147 | P | 06 57.10 | 0.0 | | | | | | |
| CHTO | 31.60 | 303 | iPc | 03 15.60 | -0.6 | QUE | 62.73 | 303 | eP | 07 17.20 | -1.6 | | | | | | |
| | 0.9s | 67.56nm | | 5.5mb | | MHI | 70.20 | 308 | iPc | 08 05.80 | -0.2 | | | | | | |
| TKSJ | 32.14 | 12 | eP | 03 19.50 | -1.2 | | | | 0.8s | 77.61nm | 5.8mb | | | | | | |
| KMI | 32.21 | 317 | eP | 03 22.00 | 0.2 | AVY | 80.29 | 250 | iPd | 09 05.02 | 1.0 | | | | | | |
| WKYJ | 32.70 | 14 | eP | 03 23.60 | -2.2 | TAB | 80.85 | 308 | eP | 09 07.00 | 0.4 | | | | | | |
| MRWA | 33.09 | 197 | eP | 03 31.00 | 2.0 | TTA | 82.09 | 27 | eP | 09 13.50 | 1.0 | | | | | | |
| FORR | 33.14 | 178 | eP | 03 28.00 | -1.4 | BHD | 82.16 | 303 | eP | 09 15.00 | 1.7 | | | | | | |
| | 0.5s | 185.00nm | | 6.2mb | | | | | eS | 19 36.00 | | | | | | | |
| YONJ | 33.19 | 10 | eP | 03 30.00 | 0.1 | MAW | 82.52 | 200 | eP | 09 16.00 | 1.6 | | | | | | |
| COOL | 33.55 | 189 | eP | 03 33.00 | -0.1 | KDC | 83.08 | 32 | eP | 09 18.20 | 0.7 | | | | | | |
| BAL | 34.20 | 195 | eP | 03 39.00 | 0.3 | MSL | 83.29 | 306 | eP | 09 19.50 | 0.4 | | | | | | |
| IIDJ | 34.50 | 16 | P | 03 42.70 | 1.4 | BRW | 83.42 | 18 | eP | 09 20.00 | 0.9 | | | | | | |
| TIA | 34.73 | 346 | Pc | 03 42.60 | -0.6 | IMA | 83.60 | 24 | iPc | 09 21.60 | 1.3 | | | | | | |
| KLB | 34.88 | 193 | eP | 03 44.00 | -0.5 | | | | 1.0s | 61.30nm | 5.7mb | | | | | | |
| CHJJ | 35.35 | 17 | P | 03 46.80 | -1.7 | PMR | 85.12 | 29 | eP | 09 28.00 | 0.2 | | | | | | |
| XAN | 35.51 | 334 | P | 03 48.20 | -1.7 | | | | 0.9s | 50.00nm | 5.7mb | | | | | | |
| MTMJ | 35.51 | 16 | P | 03 49.00 | -1.0 | FBA | 85.93 | 25 | eP | 09 31.10 | -0.7 | | | | | | |
| CD2 | 35.61 | 325 | eP | 03 50.20 | -0.6 | TOA | 86.55 | 28 | eP | 09 36.00 | 1.0 | | | | | | |
| | | | | | | NPA | 88.08 | 255 | eP | 09 45.00 | 1.9 | | | | | | |
| | | | | | | | | | 1.0s | 70.00nm | 5.9mb | | | | | | |
| MUN | 35.63 | 195 | eP | 03 51.00 | 0.1 | GLH | 89.50 | 303 | iPd | 09 50.60 | 1.0 | | | | | | |
| RMQ | 35.85 | 145 | iPd | 03 51.30 | -1.5 | NAI | 89.86 | 269 | iPc | 09 55.00 | 3.0 | | | | | | |
| | | | e | 06 22.00 | | ZNT | 90.05 | 302 | iPd | 09 53.30 | 1.1 | | | | | | |
| NWAO | 36.28 | 193 | eP | 03 57.00 | 0.6 | MBH | 90.31 | 300 | iPd | 09 54.50 | 1.1 | | | | | | |
| DL2 | 36.57 | 353 | P | 03 59.00 | 0.3 | KEV | 91.05 | 340 | eP | 09 56.00 | -0.1 | | | | | | |
| | | | S | 09 36.00 | | INK | 91.39 | 21 | eP | 09 57.00 | -0.7 | | | | | | |
| STK | 36.98 | 159 | eP | 04 02.00 | -0.3 | BBTK | 91.41 | 310 | eP | 09 58.00 | -0.5 | | | | | | |
| | | | e | 06 23.00 | | | | | e | 14 08.00 | | | | | | | |
| | | | e | 08 12.00 | | KJF | 91.69 | 334 | iP | 09 58.20 | -0.9 | | | | | | |
| RKG | 37.43 | 193 | eP | 04 12.00 | 6.0X | SUF | 92.64 | 333 | iP | 10 03.10 | -0.4 | | | | | | |
| TIY | 37.44 | 341 | Pc | 04 05.70 | -0.4 | | | | 0.7s | 5.20nm | 5.1mb | | | | | | |
| | | | | | | MBC | 93.22 | 13 | eP | 10 06.00 | 0.0 | | | | | | |
| | | | | | | NUR | 93.76 | 331 | iP | 10 08.40 | -0.3 | | | | | | |
| YAMJ | 37.63 | 17 | P | 04 07.70 | 0.1 | VR1 | 95.14 | 316 | ePd | 10 16.00 | 0.6 | | | | | | |
| CMS | 38.37 | 153 | eP | 04 13.00 | -1.0 | MLR | 95.74 | 316 | ePd | 10 18.00 | -0.3 | | | | | | |
| | | | e | 04 40.00 | | BUL | 98.35 | 250 | iPc | 10 30.40 | -0.1 | | | | | | |
| | | | e | 05 42.00 | | | | | 1.0s | 14.00nm | 5.4mb | | | | | | |
| BJI | 38.60 | 347 | P | 04 15.50 | -0.3 | DAG | 98.52 | 352 | iPd | 10 28.80 | -1.3 | | | | | | |
| | | | | | | | | | 0.6s | 10.00nm | 5.5mb | | | | | | |
| | | | | | | HFS | 99.09 | 332 | eP | 10 33.30 | 0.4 | | | | | | |
| ADE | 38.91 | 164 | iPd | 04 18.50 | 0.0 | | | | 0.4s | 1.20nm | 4.8mb | | | | | | |
| | 0.8s | 194.03nm | | 5.9mb | | NB2 | 99.88 | 333 | P | 10 35.00 | -1.6 | | | | | | |
| OFUJ | 38.96 | 19 | eP | 04 19.00 | 0.2 | | | | 0.9s | 4.90nm | 5.0mb | | | | | | |
| SNY | 39.30 | 356 | Pc | 04 20.00 | -1.6 | YKA | 100.71 | 24 | Pdiff | 10 41.00 | 0.9 | | | | | | |
| | | | | | | GOL | 116.60 | 43 | PKP | 15 37.20 | 0.0 | | | | | | |
| | | | | | | RSO | 116.75 | 27 | PKP | 15 35.90 | -0.8 | | | | | | |
| | | | | | | ALQ | 117.97 | 48 | PKP | 15 40.60 | 0.8 | | | | | | |
| | | | | | | FVM | 127.17 | 37 | PKP | 15 57.00 | -0.1 | | | | | | |
| LZH | 39.55 | 331 | P | 04 24.00 | 0.0 | PWLA | 130.58 | 38 | PKP | 16 03.30 | -0.4 | | | | | | |
| | 1.5s | 0.18nm | | 2.6mb X | | KIC | 130.65 | 280 | PKP | 16 06.20 | 1.8 | | | | | | |
| AOMJ | 39.93 | 16 | eP | 04 28.30 | 1.5 | TIC | 130.88 | 281 | PKP | 16 06.80 | 2.0X | | | | | | |
| HHC | 40.58 | 342 | eP | 04 32.00 | -0.3 | LIC | 130.95 | 280 | PKP | 16 06.80 | 1.8 | | | | | | |
| COO | 40.74 | 146 | eP | 04 33.00 | -0.7 | TKL | 132.63 | 34 | PKP | 16 08.00 | 0.4 | | | | | | |
| BTO | 40.84 | 341 | eP | 04 33.50 | -0.9 | NAV | 132.97 | 30 | PKP | 16 08.90 | 0.7 | | | | | | |
| | | | eS | 10 39.00 | | CVL | 133.56 | 28 | PKP | 16 10.00 | 0.7 | | | | | | |
| CN2 | 41.19 | 359 | eP | 04 37.00 | -0.1 | PRM | 134.57 | 34 | PKP | 16 11.90 | 0.6 | | | | | | |
| | | | pP | 04 42.00 | 17kmX | TACH | 144.88 | 154 | ePKP | 16 30.50 | 0.5 | | | | | | |

S.D. = 1.1 on 136 of 152 obs.

& FEB 10, 1989 20h 06m 00.06s

37.077 N 116.001 W

DEPTH = 0.0km

5.2mb (54 obs.)

SOUTHERN NEVADA (41)

<DOE>. ML 5.2 (BRK). 37' 04'

36.42" N., 116' 00" 02.21" W.,

Surface Elev. 1293 m., Depth of

Burial 500 m., Shot Time

200600.055, "TEXARKANA," Nevada

Test Site (Dept. of Energy).

| | | | | | |
|------|------|-----|-----|----------|------|
| GLR | 0.12 | 354 | iPc | 06 02.70 | 0.2 |
| CPX | 0.15 | 196 | iPc | 06 03.10 | 0.0 |
| BGB | 0.19 | 258 | iPc | 06 04.10 | 0.3 |
| SSP | 0.23 | 229 | iPc | 06 04.60 | -0.1 |
| LOP | 0.26 | 211 | iPc | 06 05.20 | 0.0 |
| TMBR | 0.31 | 262 | iP | 06 06.30 | 0.0 |
| GMR | 0.32 | 36 | iPc | 06 06.60 | 0.2 |
| CDH1 | 0.33 | 230 | iPc | 06 06.50 | -0.2 |
| YMT6 | 0.39 | 236 | iP | 06 07.80 | 0.0 |
| LSM | 0.40 | 213 | iP | 06 07.50 | -0.6 |
| YMT5 | 0.40 | 244 | iPc | 06 08.00 | -0.1 |
| SPRG | 0.41 | 158 | iPc | 06 08.00 | -0.3 |

| | | | | | | | | | | | | | | | | | |
|------|-------|----------|----------|----------|-------|------|-------|----------|----------|----------|----------|---------|----------|----------|------------|----------|------|
| DUG | 3.99 | 38 | eP | 07 02.80 | -1.2 | | 1.1s | 62.00nm | 5.3mb | LPG | 82.97 | 37 | eP | 18 28.50 | -0.1 | | |
| LLA | 3.99 | 265 | ePc | 07 02.60 | -1.3 | FRB | 38.91 | 31 | eP | 13 28.00 | -0.7 | | 1.2s | 22.00nm | 5.3mb | | |
| GLA | 4.13 | 166 | iPc | 07 04.40 | -1.4 | MBC | 39.29 | 359 | eP | 13 31.00 | -0.8 | LSO | 83.19 | 36 | P | 18 29.21 | -0.5 |
| SAO | 4.37 | 268 | eP | 07 08.20 | -1.1 | | 0.9s | 48.00nm | 5.1mb | KHC | 83.23 | 31 | Pc | 18 29.00 | -0.5 | | |
| | | | eS | 08 22.45 | | ADK | 44.46 | 309 | eP | 14 12.20 | -2.2 | RRL | 83.41 | 37 | P | 18 30.55 | -0.3 |
| PRS | 4.38 | 262 | iPc | 07 08.20 | -1.2 | | 0.8s | 44.50nm | 5.4mb | ORX | 83.45 | 36 | P | 18 30.24 | -0.6 | | |
| ARN | 4.42 | 275 | eP | 07 09.50 | -0.6 | STJ | 46.74 | 56 | eP | 14 31.00 | -1.6 | RSP | 83.47 | 37 | P | 18 30.85 | -0.1 |
| MHC | 4.51 | 275 | ePc | 07 10.47 | -0.9 | ALE | 48.90 | 8 | ePc | 14 46.20 | -2.9 | PZZ | 83.87 | 37 | P | 18 32.29 | -0.8 |
| | | | e | 07 28.95 | | | 0.7s | 14.00nm | 5.1mb | FRF | 84.34 | 38 | eP | 18 34.30 | -1.0 | | |
| | | | eSn | 08 22.30 | | | | pP | 16 11.00 | 427kmX | | 1.2s | 29.70nm | 5.4mb | | | |
| | | | eSg | 08 26.70 | | DAG | 55.88 | 16 | iPd | 15 38.00 | -3.3 | ROB | 84.39 | 37 | P | 18 33.93 | -1.7 |
| ORV | 4.98 | 301 | eP | 07 16.40 | -1.6 | | 0.9s | 17.65nm | 5.1mb | LMR | 84.44 | 38 | eP | 18 35.00 | -0.7 | | |
| DAU | 4.98 | 47 | eP | 07 18.60 | 0.3 | KEV | 70.10 | 13 | eP | 17 13.00 | -2.6 | | 1.2s | 29.70nm | 5.4mb | | |
| BKS | 5.02 | 281 | iPnc | 07 07.60 | -10.9 | EKA | 71.62 | 34 | P | 17 23.00 | -2.1 | KBA | 84.74 | 32 | eP | 18 35.00 | -2.4 |
| | | | e(Pb) | 07 18.50 | | | 1.1s | 11.40nm | 4.9mb | | 1.0s | 6.30nm | 4.8mb | | | | |
| BKS | 5.02 | 281 | ePc | 07 18.85 | 0.3 | NB2 | 73.20 | 24 | P | 17 32.10 | -2.3 | KRA | 84.92 | 27 | eP | 18 37.10 | -0.9 |
| | | | i | 07 28.00 | | | 0.9s | 13.30nm | 5.0mb | | 0.9s | 38.00nm | 5.6mb | | | | |
| | | | e | 07 30.20 | | NRA0 | 73.54 | 24 | P | 17 34.00 | -2.2 | ZST | 85.38 | 29 | eP | 18 39.40 | -1.0 |
| | | | i(Sn) | 07 49.20 | | HFS | 74.69 | 24 | eP | 17 40.90 | -2.0 | SPC | 85.76 | 27 | eP | 18 42.20 | -0.3 |
| | | | i | 08 27.30 | | | 0.8s | 33.40nm | 5.4mb | SRO | 86.17 | 29 | eP | 18 43.70 | -0.6 | | |
| LBFM | 6.25 | 315 | eP | 07 35.70 | -0.4 | KJF | 75.07 | 16 | iP | 17 43.00 | -2.0 | HYB | 124.09 | 343 | ePdiff21 | 41.00 | 4.9 |
| RW1 | 6.62 | 77 | eP | 07 39.20 | -2.2 | | 0.8s | 29.30nm | 5.4mb | GBA | 128.03 | 343 | Pdiffc21 | 43.70 | -9.9 | | |
| RW4 | 6.74 | 78 | eP | 07 41.70 | -1.4 | SUF | 76.01 | 17 | iP | 17 48.00 | -2.4 | | 1.0s | 5.40nm | | | |
| BW06 | 7.54 | 39 | ePc | 07 53.20 | -1.0 | | 0.7s | 5.80nm | 4.8mb | GBA | 128.03 | 343 | PKPc | 25 08.30 | -1.8 | | |
| ALO | 8.02 | 103 | eP | 07 58.70 | -2.2 | UPP | 76.13 | 22 | iP | 17 49.20 | -1.9 | | 0.4s | 0.80nm | | | |
| GOL | 8.75 | 69 | ePc | 08 10.70 | -0.4 | | 1.0s | 100.00nm | 5.9mb | CER | 143.54 | 98 | ePKP | 25 35.00 | -3.5 | | |
| GLD | 8.87 | 69 | eP | 08 12.50 | -0.2 | FLN | 77.17 | 38 | eP | 17 56.10 | -1.0 | BUL | 144.90 | 71 | iPKPc | 25 38.30 | -3.0 |
| LRM | 9.13 | 16 | eP | 08 17.00 | 0.7 | | 1.2s | 47.60nm | 5.5mb | | 1.1s | 33.54nm | | | | | |
| VGB | 9.16 | 338 | eP | 08 17.50 | 1.0 | GRR | 77.23 | 38 | eP | 17 56.60 | -0.9 | KIM | 146.24 | 87 | iPKPc | 25 42.50 | -0.8 |
| LON | 10.59 | 338 | eP | 08 37.40 | 1.3 | | 1.1s | 34.10nm | 5.4mb | CGY | 146.45 | 82 | iPKPc | 25 42.50 | -1.0 | | |
| DPW | 10.91 | 352 | eP | 08 41.00 | 0.5 | LPF | 77.38 | 39 | eP | 17 57.50 | -0.8 | | 0.8s | 111.94nm | | | |
| PNT | 12.51 | 349 | eP | 09 02.50 | 0.3 | | 1.1s | 26.30nm | 5.3mb | FRS | 147.07 | 89 | iPKPc | 25 46.00 | 1.6 | | |
| MCW | 12.62 | 339 | eP | 09 04.40 | 0.7 | LDF | 77.46 | 38 | iPc | 17 57.80 | -0.9 | | 1.0s | 40.00nm | | | |
| PGC | 12.78 | 337 | eP | 09 17.00 | 11.2 | | 0.9s | 13.10nm | 5.1mb | PRY | 147.59 | 82 | iPKPd | 25 46.70 | 1.1 | | |
| ACO | 13.50 | 87 | ePc | 09 15.40 | -0.1 | NUR | 77.55 | 19 | iP | 17 57.10 | -1.9 | | 0.6s | 10.71nm | | | |
| | 0.8s | 16.60nm | | | 5.1mb | WIT | 77.58 | 32 | eP | 18 00.50 | 1.2 | BPI | 147.68 | 81 | iPKPd | 25 47.00 | 1.2 |
| | | e | 10 11.80 | | | UCC | 78.03 | 34 | Pc | 18 02.00 | 0.2 | | 0.5s | 49.30nm | | | |
| SES | 13.78 | 13 | ePd | 09 19.50 | 0.4 | SNF | 78.20 | 34 | Pc | 18 02.60 | -0.1 | GRM | 149.32 | 94 | iPKPc | 25 50.50 | 2.5 |
| MEO | 14.30 | 94 | eP | 09 26.70 | 0.7 | WTS | 78.24 | 32 | eP | 18 02.50 | -0.4 | | 0.6s | 26.67nm | | | |
| | 1.2s | 112.40nm | | | 5.5mb | | 1.2s | 37.00nm | 5.4mb | | 198 obs. | | | | associated | | |
| OCO | 15.02 | 90 | e(P) | 09 41.60 | 6.2 | DOU | 78.64 | 34 | Pc | 18 04.30 | -0.9 | | | | | | |
| | 1.0s | 14.80nm | | | 4.5mb | | 1.0s | 33.30nm | 5.4mb | | | | | | | | |
| | | e | 10 43.30 | | | ENN | 78.75 | 33 | eP | 18 05.00 | -0.7 | | | | | | |
| FKO | 15.15 | 91 | ePc | 09 42.90 | 5.9 | | 0.8s | 18.00nm | 5.2mb | | | | | | | | |
| | 1.3s | 129.20nm | | | 5.2mb | MFF | 78.80 | 39 | eP | 18 05.20 | -0.9 | | | | | | |
| SIO | 15.91 | 89 | e(P) | 09 47.30 | 0.3 | | 1.1s | 36.10nm | 5.3mb | | | | | | | | |
| EDM | 16.25 | 6 | eP | 09 50.20 | -1.0 | MEM | 78.90 | 33 | Pc | 18 05.70 | -0.9 | ALP | 0.29 | 95 | iPgc | 08 53.64 | -0.5 |
| TUL | 16.30 | 88 | ePc | 09 51.50 | -0.4 | WLF | 79.65 | 34 | Pc | 18 10.10 | -0.5 | | | | | | |
| | 1.0s | 36.30nm | | | 4.5mb | LSF | 79.88 | 39 | eP | 18 10.70 | -1.3 | CIO | 0.39 | 355 | iPg | 08 56.17 | 0.1 |
| Z | 20s | 0.66um | | | | TCF | 80.19 | 38 | eP | 18 12.50 | -1.2 | | | | | | |
| | | e | 11 05.70 | | | | 0.9s | 10.40nm | 4.8mb | | | | | | | | |
| | | i | 11 12.40 | | | SSF | 80.28 | 37 | eP | 18 13.10 | -1.1 | ASS | 0.47 | 305 | P | 08 57.10 | -0.5 |
| | | e | 14 34.50 | | | LOR | 80.31 | 37 | eP | 18 13.50 | -0.8 | | | | | | |
| | | LR | 15 12.00 | | | | 0.9s | 24.50nm | 5.2mb | | | | | | | | |
| LNO | 16.30 | 88 | eP | 09 50.80 | -1.0 | LFF | 80.39 | 40 | iPc | 18 13.90 | -0.8 | AQU | 0.48 | 160 | P | 08 57.50 | -0.3 |
| VVO | 16.45 | 90 | eP | 09 53.20 | -0.6 | | 1.1s | 29.30nm | 5.2mb | | | | | | | | |
| OLY | 19.83 | 87 | eP | 10 33.30 | -2.0 | AVF | 80.40 | 37 | iPc | 18 13.40 | -1.4 | SSO | 0.52 | 19 | ePg | 08 59.00 | 0.5 |
| FFC | 20.10 | 24 | iPc | 10 35.80 | -2.2 | | 1.2s | 17.80nm | 4.9mb | | | | | | | | |
| | 1.2s | 201.00nm | | | 5.3mb | MAF | 80.42 | 38 | iPc | 18 13.70 | -1.2 | MNS | 0.56 | 222 | Pc | 08 58.20 | -1.3 |
| FVM | 20.29 | 80 | eP | 10 38.50 | -1.6 | | 1.2s | 20.80nm | 5.0mb | | | | | | | | |
| | 1.0s | 100.00nm | | | 5.1mb | RJF | 80.53 | 39 | eP | 18 14.30 | -1.2 | ARV | 0.72 | 346 | P | 09 01.90 | -0.3 |
| RSON | 21.04 | 42 | eP | 10 45.50 | -2.3 | | 1.1s | 19.50nm | 5.0mb | | | | | | | | |
| | 1.0s | 65.00nm | | | 4.9mb | LBF | 80.56 | 37 | eP | 18 14.50 | -1.2 | AOI | 0.80 | 22 | iPg | 09 03.65 | 0.0 |
| ELC | 21.31 | 81 | eP | 10 49.80 | -0.9 | SMF | 80.74 | 37 | iPc | 18 15.20 | -1.4 | | | | | | |
| PWLA | 22.66 | 87 | eP | 11 04.30 | 0.1 | | 1.3s | 25.20nm | 5.1mb | AZI | 0.84 | 167 | P | 09 05.20 | 1.0 | | |
| YKC | 25.45 | 2 | eP | 11 29.00 | -1.8 | LPO | 80.79 | 40 | eP | 18 16.20 | -0.7 | | | | | | |
| GBTN | 25.58 | 84 | eP | 11 31.30 | -1.1 | | 0.8s | 9.10nm | 4.8mb | RMP | 1.06 | 200 | P | 09 08.70 | 0.7 | | |
| TKL | 25.93 | 83 | eP | 11 34.50 | -1.1 | HAU | 80.94 | 35 | eP | 18 16.80 | -0.9 | | | | | | |
| PRM | 27.44 | 86 | eP | 11 48.40 | -1.1 | | 1.1s | 29.30nm | 5.2mb | RDP | 1.10 | 199 | P | 09 09.50 | 0.7 | | |
| NAV | 27.95 | 79 | eP | 11 53.20 | -1.0 | CDF | 81.07 | 34 | iPc | 18 17.50 | -0.9 | | | | | | |
| BLA | 28.26 | 79 | eP | 11 56.00 | -1.0 | | 1.1s | 21.40nm | 5.1mb | SDI | 1.19 | 157 | P | 09 09.80 | -0.6 | | |
| | 0.8s | 35.64nm | | | 5.2mb | CAF | 81.07 | 39 | iPc | 18 17.40 | -1.0 | | | | | | |
| JSC | 28.27 | 85 | eP | 11 55.50 | -1.5 | | 1.1s | 24.40nm | 5.2mb | CRE | 1.22 | 313 | P | 09 10.80 | -0.1 | | |
| LHS | 28.57 | 85 | eP | 11 58.30 | -1.5 | MOX | 81.25 | 31 | eP | 18 18.00 | -1.2 | | | | | | |
| TOA | 31.25 | 333 | eP | 12 23.70 | 0.3 | | 1.3s | 22.00nm | 5.1mb | SFI | 1.48 | 319 | P | 09 15.80 | 1.1 | | |
| KDC | 31.63 | 323 | eP | 12 26.90 | 0.3 | BSF | 81.27 | 35 | eP | 18 18.6 | | | | | | | |

FEB 10, 1989 20h 08m 48.08 ± 0.33s
 42.805 N ± 2.5km 13.188 E ± 4.2km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)
 MD 2.9 (SSO).

| | | | | | |
|-----|------|-----|-------|----------|------|
| ALP | 0.29 | 95 | iPgc | 08 53.64 | -0.5 |
| | | | iSg | 08 58.65 | |
| CIO | 0.39 | 355 | iPg | 08 56.17 | 0.1 |
| | | | iSg | 09 03.11 | |
| ASS | 0.47 | 305 | P | 08 57.10 | -0.5 |
| | | | eSg | 09 04.40 | |
| AQU | 0.48 | 160 | P | 08 57.50 | -0.3 |
| | | | eSg | 09 04.50 | |
| SSO | 0.52 | 19 | ePg | 08 59.00 | 0.5 |
| | | | iSg | 09 09.11 | |
| MNS | 0.56 | 222 | Pc | 08 58.20 | -1.3 |
| | | | eSg | 09 05.70 | |
| ARV | 0.72 | 346 | P | 09 01.90 | -0.3 |
| | | | eSg | 09 13.40 | |
| AOI | 0.80 | 22 | iPg | 09 03.65 | 0.0 |
| | | | iSg | 09 18.01 | |
| AZI | 0.84 | 167 | P | 09 05.20 | 1.0 |
| | | | eSg | 09 17.20 | |
| RMP | 1.06 | 200 | P | 09 08.70 | 0.7 |
| | | | eSn | 09 22.80 | |
| RDP | 1.10 | 199 | P | 09 09.50 | 0.7 |
| | | | eSn | 09 24.00 | |
| SDI | 1.19 | 157 | P | 09 09.80 | -0.6 |
| | | | eSn | 09 25.90 | |
| CRE | 1.22 | 313 | P | 09 10.80 | -0.1 |
| | | | eSn | 09 27.80 | |
| SFI | 1.48 | 319 | P | 09 15.80 | 1.1 |
| | | | eSn | 09 35.20 | |
| PGD | 1.51 | 315 | P | 09 15.40 | 0.0 |
| | | | eSn | 09 36.50 | |
| CTI | 3.42 | 342 | P | 09 42.50 | -0.1 |
| | | | (Sn) | 10 21.20 | |
| FVI | 3.80 | 356 | P | 09 47.50 | -0.4 |
| | | | eSn | 10 29.30 | |
| KBA | 4.27 | 1 | e(Pn) | 09 55.00 | 0.2 |
| | | | i | 10 48.00 | |

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

10d 20h

DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.8 (GEN).

BNI 0.14 108 Pc 15 47.60 -0.1
eSg 15 49.20
RRL 0.28 130 P 15 50.15 0.0
S 15 54.25
RSP 0.55 84 P 15 55.21 -0.3
S 16 02.25
LSD 0.60 53 P 15 55.91 -0.5
S 16 03.69
PZZ 0.74 143 P 15 58.41 -0.4
S 16 08.20
DOI 0.81 137 P 15 59.50 -0.4
eSg 16 09.60
STV 1.04 145 P 16 04.55 0.6
S 16 17.22
ORO 1.18 63 P 16 06.60 0.3
eSg 16 21.90
ORX 1.18 63 P 16 06.94 0.6
S 16 21.12
ROB 1.27 129 P 16 08.30 0.4
S 16 23.68
FIN 1.52 125 P 16 11.33 -0.1
IMI 1.56 139 P 16 12.04 0.0

S.D. = 0.4 on 12 of 12 obs.

FEB 10, 1989 20h 29m 43.14 ± 0.18s
2.396 N ± 3.1km 126.653 E ± 4.7km
DEPTH = 33.0km (normal)
5.3mb (28 obs.) 4.4MsZ (1 obs.)
MOLUCCA PASSAGE (266)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 33C
Centroid Location:
Origin Time 20:29:51.6 0.6
Lat 2.99N 0.06 Lon 126.84E 0.05
Dep 15.0 FIX Half-duration 3.0
Moment Tensor: Scale 10**17 Nm
Mrr= 4.24 0.21 Mtt=-1.67 0.18
Mff=-2.57 0.30 Mrt=-3.18 0.64
Mrf=-2.04 0.59 Mtf=-2.17 0.18
Principal Axes:
T Vol= 5.76 Plg=68 Azm=159
N -0.09 9 47
P -5.67 20 313
Best Double Couple: Mo=5.7*10**17
NP1: Strike= 28 Dip=26 Slip= 69
NP2: 231 66 100

DAV 4.78 347 eP 30 56.00 1.2
AAI 6.24 166 eP 31 21.90 6.6X
TSM 8.76 282 eP 31 54.90 4.4X
TLE 10.04 143 ePd 32 11.30 3.1X
0.3s 6.00nm 5.3mb
MKS 10.43 223 ePc 32 18.00 4.5X
KKM 11.02 290 ePd 32 25.00 3.3X
0.6s 93.20nm 6.2mb
QCP 13.35 336 eP 32 44.00 -8.9X
BAG 15.15 337 eP 33 17.40 0.7
eS 36 07.00
KHKI 15.35 226 ePc 33 25.80 6.7X
e 38 51.00
MTN 15.78 164 eP 33 23.00 -1.7
e 36 33.00
PIP 16.90 340 ePd 33 41.00 2.2
TRT 17.21 234 ePd 33 44.40 1.6
0.6s 82.50nm 5.0mb
KNA 18.15 173 eP 33 53.50 -0.9
0.7s 255.00nm 5.5mb
MNDI 18.99 117 eP 34 07.00 2.1
GUMO 21.16 57 eP 34 27.20 -0.8
0.5s 44.90nm 5.1mb
PJG 21.16 57 eP 34 27.00 -1.0
GUA 21.18 58 eP 34 26.50 -1.7
0.7s 82.19nm 5.2mb
Z 24s 4.96um 4.8MsZ
ANP 23.19 348 eP 34 51.00 2.9
HKC 23.21 329 (P) 34 51.00 2.8
S 38 54.00
KGM 23.32 270 eP 34 51.50 2.1
QIZ 23.32 316 eP 34 49.00 -0.4
E 17s 2.40um
WB5 23.40 161 iPc 34 49.80 -0.3
WRA 23.45 162 Pc 34 50.20 -0.4

0.5s 86.20nm 5.5mb
WB2 23.45 162 iPc 34 49.80 -0.9
PMG 23.55 120 e(P) 34 50.00 -1.6
QZH 23.73 342 eP 34 54.00 0.8
Z 28s 11.10um 5.2MsZ
S 39 00.00
GZH 24.28 329 iPc 34 58.00 -0.6
S 39 11.00
MBL 24.34 196 eP 35 01.00 1.7
0.5s 27.00nm 5.1mb
IPM 25.67 276 eP 35 11.50 -0.5
0.6s 24.70nm 5.0mb
e 38 43.20
QIS 26.11 151 iPc 35 15.20 -0.8
ASPA 26.85 165 iPc 35 21.80 -1.0
0.7s 52.00nm 5.3mb
eP 35 28.80 25kmX
iPcP 38 45.00
eS 39 56.60
iScP 41 04.60
NANU 27.08 203 iPc 35 25.30 0.5
0.4s 13.00nm 4.9mb
PSI 27.70 271 ePd 35 31.00 0.4
0.8s 35.00nm 5.1mb
WARB 28.41 180 iPd 35 30.40 -6.5X
0.3s 20.00nm 5.3mb
LOE 28.66 303 eP 35 38.00 -1.3
SSE 29.01 350 eP 35 43.00 0.8
Z 20s 0.90um 4.4MsZ
E 18s 1.40um
S 40 27.00
NST 29.27 298 eP 35 46.10 1.4
CTA 29.48 140 iPc 35 45.90 -0.7
0.9s 63.03nm 5.4mb
iS 40 39.00
MEKA 29.89 195 iPd 35 50.20 0.0
0.4s 27.00nm 5.4mb
WHN 30.32 339 Pd 35 55.00 1.1
Z 30s 7.47um 5.2MsZ
NJ2 30.40 347 eP 35 55.50 0.9
GYA 30.67 323 P 35 56.40 -0.8
CHTO 31.66 303 iP 36 03.80 -2.1
0.6s 14.73nm 5.0mb
KMI 32.27 317 Pc 36 11.50 0.0
pP 36 21.00 33kmX
MRWA 33.05 197 eP 36 18.00 0.1
FORR 33.09 178 eP 36 17.00 -1.1
COOL 33.51 189 eP 36 21.00 -0.9
TSRJ 34.09 14 P 36 26.30 -0.5
BAL 34.16 195 eP 36 27.00 -0.5
IIDJ 34.54 16 P 36 31.10 0.4
TIA 34.78 346 eP 36 33.20 0.4
KLB 34.84 193 eP 36 33.00 -0.3
CHJJ 35.38 17 P 36 36.10 -1.8
MTMJ 35.55 16 P 36 38.00 -1.4
XAN 35.57 334 P 36 37.80 -1.8
MUN 35.59 195 eP 36 39.00 -0.7
CD2 35.68 325 eP 36 39.90 -0.6
Z 30s 1.80um 4.7MsZ
eS 42 08.60
RMO 35.78 145 iPc 36 39.80 -1.6
NWA0 36.24 193 eP 36 46.00 0.8
NIIJ 36.49 17 P 36 45.90 -1.3
DL2 36.63 353 eP 36 48.40 0.1
Z 28s 1.90um 4.7MsZ
N 15s 1.60um
S 42 27.50
STK 36.92 159 iPc 36 50.40 -0.5
e 36 56.00
RKG 37.39 193 eP 37 00.00 5.2X
TIY 37.49 341 P 36 55.00 -0.7
Z 28s 7.77um 5.4MsZ
eS 42 34.00
YAMJ 37.66 17 eP 36 56.90 -0.1
CMS 38.31 153 eP 37 02.00 -0.6
BJI 38.66 347 P 37 05.00 -0.4
Z 26s 3.00um 5.0MsZ
eS 42 52.00
ADE 38.85 164 iPc 37 07.70 0.6
0.8s 164.18nm 5.9mb
OFUJ 39.00 19 eP 37 08.90 0.7
SNY 39.35 356 eP 37 11.40 0.3
Z 30s 3.90um 5.1MsZ
N 28s 3.50um
E 25s 2.40um
S 43 10.00
LZH 39.61 330 eP 37 13.50 -0.1

2.5s 0.24nm 2.5mb X
Z 30s 8.60um 5.4MsZ
N 22s 2.60um
AOMJ 39.97 16 eP 37 20.50 4.3X
HHC 40.63 342 eP 37 21.60 -0.3
COO 40.68 146 iPc 37 22.40 0.1
0.4s 37.00nm 5.5mb
BTO 40.90 341 eP 37 25.20 1.2
N 25s 4.90um
E 28s 5.00um
CN2 41.24 359 Pd 37 29.80 3.2X
5.0s 0.30nm 2.3mb X
Z 28s 3.50um 5.1MsZ
pP 37 40.00 35kmX
MRRJ 41.89 16 eP 37 33.70 1.7
BWA 41.95 153 eP 37 34.10 1.4
MDJ 42.12 3 Pc 37 34.00 0.1
Z 30s 4.19um 5.1MsZ
CAN 42.96 153 iPc 37 41.20 0.3
CNB 43.13 152 iPc 37 43.20 0.9
LSA 43.27 313 P 37 44.00 0.0
TOO 43.44 158 eP 37 46.00 1.3
e 39 27.00
KUSJ 43.61 19 eP 37 45.90 -0.1
ASAJ 43.90 17 eP 37 48.60 0.3
GTA 44.20 330 P 37 50.20 -0.8
Z 28s 6.70um 5.4MsZ
E 24s 4.80um
eS 44 18.00
ScS 47 46.20
GUN 46.45 307 P 38 08.20 -1.2
PKI 46.68 306 P 38 09.60 -1.6
0.5s 11.00nm 5.1mb
KKK 46.88 307 P 38 10.90 -1.8
DMN 46.94 306 P 38 11.80 -1.4
0.6s 26.00nm 5.4mb
GKN 47.49 307 P 38 15.80 -1.6
TAU 48.80 160 eP 38 28.00 0.9
KOD 49.45 281 eP 38 27.40 -5.5X
HYB 49.50 291 eP 38 32.00 -1.0
1.0s 80.00nm 5.7mb
GBA 49.89 286 P 38 34.20 -1.7
WMO 53.77 326 iPc 39 04.20 -0.5
Z 28s 2.90um 5.2MsZ
S 46 32.60
NDI 53.79 304 eP 39 02.50 -2.6
eS 46 30.00
POO 54.11 291 iPd 39 05.50 -2.1
KSH 58.90 316 P 39 42.00 0.4
MSZ 59.55 147 P 39 45.60 -0.2
QUE 62.79 303 eP 40 06.50 -1.8
MHI 70.26 308 eP 40 55.00 -0.5
KHI 70.52 305 eP 40 54.30 -3.0X
AVY 80.31 250 iPc 41 53.92 0.7
TAB 80.91 308 eP 41 58.00 1.9
TTA 82.12 27 eP 42 02.90 1.2
MAW 82.48 200 eP 42 05.00 1.6
KDC 83.10 32 eP 42 07.50 0.8
MSL 83.35 306 eP 42 10.00 1.4
IMA 83.63 24 iPc 42 10.80 1.2
1.0s 60.00nm 5.7mb
PMR 85.15 29 eP 42 17.10 0.1
0.8s 42.80nm 5.7mb
FBA 85.95 25 eP 42 22.10 1.1
TOA 86.57 28 eP 42 25.00 0.8
NPA 88.11 255 iP 42 33.50 1.1
NAI 89.90 269 eP 42 44.00 2.7
PRNI 90.23 300 iPd 42 43.50 1.2
NOH 90.25 301 e(P) 42 42.00 -0.4
MBH 90.36 300 iPd 42 44.00 1.2
INK 91.42 21 eP 42 46.50 -0.4
SOD 91.66 338 eP 42 42.00 -6.0X
i 42 51.10
KJF 91.75 334 iP 42 47.40 -1.1
0.6s 13.00nm 5.5mb
i 42 51.30
SUF 92.70 333 eP 42 52.00 -0.9
0.5s 2.50nm 4.9mb
MBC 93.26 13 eP 42 55.00 -0.3
NUR 93.83 331 iP 42 58.50 0.4
VRI 95.20 316 eP 43 02.00 -2.8
PTZ 95.73 256 iP 43 09.60 1.7
MLR 95.80 316 ePd 43 07.50 -0.2
BUL 98.37 250 eP 43 19.30 -0.4
DAG 98.57 352 iPc 43 17.40 -2.0
0.6s 6.67nm 5.3mb
HFS 99.15 332 eP 43 22.20 -0.1

10d 20h

0.5s 1.70nm 4.8mb
 NB2 99.94 333 PKP 43 24.30 -1.7
 0.9s 3.40nm 4.9mb
 YKA 100.74 24 Pd iff 43 30.10 0.7
 BW06 112.40 41 PKP 48 18.10 0.0
 FRB 113.06 7 ePKP 48 18.00 -0.3
 GOL 116.61 43 PKP 48 26.50 0.2
 RSON 116.77 27 PKP 48 24.80 -1.1
 ALO 117.97 48 ePKP 48 29.00 0.1
 SCH 121.91 9 ePKP 48 36.00 0.5
 ELC 128.36 37 PKP 48 48.70 0.2
 PWLA 130.59 38 PKP 48 52.30 -0.5
 KIC 130.70 280 PKP 48 54.50 0.9
 TKL 132.65 34 PKP 48 56.50 -0.2
 SAN 145.11 154 ePKP 49 19.50 0.0
 PEL 145.36 154 iPKPc 49 20.50 0.5
 JACH 145.80 154 iPKPc 49 22.40 1.6
 MDZ 146.36 156 iPKPc 49 23.00 1.3
 CNCB 159.70 136 PKP 49 43.00 1.7
 LPB 159.80 135 PKP 49 42.00 0.8
 ZOBO 159.96 134 PKP 49 43.50 1.9
 1.0s 8.75nm
 LR 14 14.00
 S.D. = 1.2 on 135 of 149 obs.

FEB 10, 1989 20h 41m 42.88 ± 0.31s
 44.845 N ± 2.6km 7.289 E ± 3.9km
 DEPTH = 19.5 ± 5.1 km
 NORTHERN ITALY (545)
 ML 3.1 (GEN), 3.0 (LDG), MD 2.3 (STR).

RSP 0.31 356 P 41 48.85 -0.9
 DOI 0.34 185 P 41 49.70 -0.6
 PZZ 0.37 202 P 41 49.77 -1.0
 RRL 0.37 282 P 41 48.80 -2.0
 FOUF 0.48 229 P 41 51.35 -1.2
 BNI 0.48 296 P 41 50.80 -1.9
 STV 0.60 178 P 41 53.83 -0.8
 LSD 0.62 351 P 41 54.28 -0.8
 ROB 0.69 143 P 41 56.39 0.3
 LPG 0.76 330 P 41 56.20 -1.2
 LPL 0.78 330 P 41 56.50 -1.3
 CKI 0.82 120 P 41 59.20 0.8
 TOUF 0.83 182 P 41 57.78 -0.9
 AUTN 0.85 173 P 41 58.09 -1.0
 FIN 0.91 134 P 42 00.59 0.6
 ORO 0.92 32 P 42 00.20 0.1
 ORX 0.93 32 P 42 01.29 -0.9
 MVIF 0.95 186 P 42 00.21 -0.5
 AURF 0.96 178 P 42 00.02 -0.7
 SBF 0.99 174 P 42 00.60 -0.6
 IMI 1.03 155 P 42 01.82 -0.1
 CALN 1.13 195 P 42 03.91 0.3
 FRF 1.36 200 P 42 08.40 1.5
 VAI 1.46 45 P 42 09.00 0.8
 BOB 1.54 92 P 42 09.90 0.4
 LRG 1.54 206 P 42 11.50 2.1
 LMR 1.61 201 P 42 12.60 2.1
 CVF 2.55 153 P 42 23.20 -0.8
 SMF 3.01 308 P 42 31.60 1.1
 LBF 3.15 314 P 42 33.40 0.9

HAU 3.23 349 Pn 42 34.20 0.6
 AVF 3.37 307 Pn 42 36.40 0.8
 LOR 3.40 317 Pn 42 37.00 1.0
 SSF 3.45 311 Pn 42 37.60 0.9
 BGF 3.55 300 Pn 42 39.00 0.8
 CDF 3.57 360 Pn 42 38.50 0.0
 CAF 3.71 273 Pn 42 41.50 1.0
 TCF 3.85 294 Pn 42 43.80 1.4
 DOU 5.56 342 Pc 43 06.40 -0.2
 S.D. = 1.1 on 39 of 39 obs.

FEB 10, 1989 21h 39m 45.85 ± 0.24s
 2.317 N ± 4.3km 126.565 E ± 6.9km
 DEPTH = 33.0km (normal)
 5.1mb (14 obs.)
 MOLUCCA PASSAGE (266)

KKM 10.97 290 ePd 42 28.50 4.8X
 MTN 15.73 163 iPd 43 06.50 -20.2X
 KNA 18.08 173 iPc 43 56.20 -0.1
 QIZ 0.7s 82.00nm 5.0mb
 WB5 23.32 317 Pc 44 53.30 1.2
 WRA 23.35 161 eP 44 51.50 -0.9
 WRA 23.40 161 Pc 44 53.60 0.7
 WB2 0.7s 22.80nm 4.8mb
 MBL 23.41 161 eP 44 51.50 -1.4
 GZH 24.25 195 eP 45 02.00 1.0
 IPM 0.4s 5.00nm 4.4mb
 QIS 24.30 329 iPd 45 01.50 0.0
 ASPA 25.59 276 eP 45 14.60 0.6
 NANU 26.08 151 eP 45 18.00 -0.4
 PSI 26.80 165 iPc 45 24.10 -0.9
 WARB 0.7s 50.01.60
 LOE 26.97 203 eP 45 27.00 0.4
 SSE 27.62 271 ePc 45 34.00 1.4
 NST 28.33 180 eP 45 32.00 -6.9X
 CTA 28.63 303 iPd 45 41.20 -0.5
 WHN 29.07 350 eP 45 46.50 1.0
 NJ2 1.5s 0.03nm 1.8mb X
 GYA 29.23 299 eP 45 47.80 0.7
 BDT 29.48 140 iP 45 50.00 0.7
 CHTO 1.1s 13.92nm 4.6mb
 MRWA 30.36 339 P 45 57.00 0.0
 FORR 30.45 347 Pc 45 58.50 0.7
 BAL 30.68 323 P 46 00.40 0.4
 MUN 30.87 300 eP 46 02.00 0.4
 CD2 0.6s 32.10nm 5.3mb
 NWA0 31.63 303 iPc 46 07.90 -0.4
 DL2 32.95 197 eP 46 23.00 3.3X
 STK 33.01 178 eP 46 19.00 -1.2
 TIY 34.06 195 eP 46 30.00 0.6
 BJI 35.50 195 eP 46 43.00 1.4
 ADE 35.69 325 eP 46 42.20 -1.1
 BRS 36.15 193 eP 46 47.00 -0.1
 LZH 36.69 354 P 46 52.20 0.6
 COO 36.88 158 eP 46 52.00 -1.3
 CN2 37.54 341 Pd 46 58.20 -0.6
 BWA 38.72 347 P 47 08.00 -0.6
 MDJ 38.80 164 iPd 47 10.50 1.1
 CAN 38.86 141 iPd 47 08.90 -1.1
 LSA 39.64 331 P 47 16.50 0.0
 GTA 1.0s 0.07nm 2.4mb X
 GUN 40.66 146 eP 47 24.00 -0.9
 PKI 41.32 359 eP 47 32.00 2.0
 KKN 41.93 153 eP 47 36.10 0.9
 DMN 42.21 3 eP 47 37.00 -0.3
 WRA 42.93 153 eP 47 43.30 -0.1
 BOB 43.26 313 Pc 47 47.00 0.4
 LRG 44.22 330 P 47 53.60 -0.3
 CALN 46.43 307 P 48 11.30 -0.7
 CVF 46.66 307 P 48 12.60 -1.2
 SMF 0.5s 13.00nm 5.2mb
 LBF 0.6s 24.00nm 5.4mb
 FRF 0.9s 60.00nm 5.6mb
 BOB 47.46 307 P 48 18.80 -1.1
 LMR 0.7s 30.00nm 5.4mb
 CVF 49.45 291 eP 48 34.00 -1.3
 SMF 0.8s 38.50nm 5.5mb
 LBF 49.83 286 Pd 48 36.60 -1.5
 0.9s 19.10nm 5.1mb

NDI 53.76 304 eP 49 05.50 -2.1
 WMO 53.79 326 eP 49 06.50 -1.1
 MHI 70.24 308 iPc 50 57.30 -0.8
 AVY 80.20 250 iPc 51 56.80 1.4
 TAB 80.89 308 eP 52 00.00 1.3
 IMA 83.73 24 eP 52 14.00 1.2
 0.7s 7.90nm 5.0mb
 PMR 85.26 29 eP 52 20.20 -0.1
 0.8s 5.10nm 4.8mb
 PRNI 90.20 300 ePd 52 46.20 1.4
 NOH 90.21 301 eP 52 46.00 1.1
 MBH 90.33 300 iPd 52 46.50 1.2
 INK 91.53 21 eP 52 50.00 -0.1
 KJF 91.79 334 eP 52 50.00 -1.4
 SUF 92.73 333 eP 52 56.00 0.3
 MBC 93.36 13 eP 52 58.00 -0.4
 NB2 99.97 333 P 53 28.40 -0.5
 0.8s 2.10nm 4.7mb
 CNCB 159.70 136 PKP 59 47.00 3.0X
 LPB 159.81 135 ePKP 59 46.00 2.1X
 ZOBO 159.97 135 PKP 59 46.00 1.7
 S.D. = 1.0 on 63 of 69 obs.

* FEB 10, 1989 22h 26m 40.47 ± 1.22s
 34.598 N ± 13.1km 22.981 E ± 12.0km
 DEPTH = 33.0km (normal)
 4.6mb (8 obs.)
 MEDITERRANEAN SEA (400)
 ML 3.5 (ATH).

VAM 1.29 51 iPnc 27 04.50 2.3
 NPS 2.26 72 ePn 27 20.10 3.8X
 ATH 3.42 10 ePn 27 32.80 0.1
 KAP 3.57 73 ePn 27 38.30 3.4X
 KSL 5.60 72 ePn 28 04.00 0.3
 KZN 5.78 351 ePn 28 05.00 -1.2
 ELL 6.03 67 ePn 28 09.50 -0.4
 VAY 6.72 357 ePn 28 15.40 -3.9X
 OHR 6.73 346 ePn 28 17.70 -1.8
 BCK 6.79 63 ePn 28 14.00 -6.5X
 DOR 10.29 104 eP 29 09.00 0.0
 JVI 10.69 101 eP 29 13.00 -1.3
 MKRJ 11.05 102 P 29 17.40 -1.9
 MASJ 11.05 101 P 29 18.50 -0.9
 JARJ 11.09 99 P 29 19.20 -0.7
 MBH 11.17 112 eP 29 22.00 1.2
 KHC 16.10 337 iPd 30 30.50 4.6X
 KSP 16.95 345 eP 30 39.40 2.9X
 WLF 19.49 326 P 31 21.80 14.4X
 DOU 20.52 325 Pc 31 19.60 1.3
 0.4s 4.40nm 4.2mb
 HFS 26.26 349 eP 32 12.70 -1.5
 0.4s 2.60nm 4.2mb
 NB2 27.52 348 P 32 27.20 1.4
 0.4s 0.70nm 3.7mb
 GKN 52.39 79 P 35 52.80 0.8
 0.4s 7.00nm 5.0mb
 DMN 52.93 79 P 35 57.00 0.9
 0.4s 8.00nm 5.0mb
 KKN 53.00 79 P 35 56.90 0.3
 0.5s 4.00nm 4.6mb
 PKI 53.19 79 P 35 58.60 0.4
 0.4s 3.00nm 4.6mb
 GUN 53.43 79 P 36 00.60 0.7
 0.4s 6.00nm 4.9mb
 S.D. = 1.2 on 20 of 27 obs.

FEB 10, 1989 22h 30m 15.99 ± 0.31s
 2.386 N ± 5.0km 126.664 E ± 7.7km
 DEPTH = 33.0km (normal)
 4.9mb (7 obs.)
 MOLUCCA PASSAGE (266)

KKM 11.04 290 ePc 33 00.50 5.7X
 KNA 18.14 173 eP 34 27.00 -0.2
 PJG 21.16 57 eP 35 02.30 1.5
 WB5 23.38 161 iPc 35 22.70 -0.1
 0.5s 13.00nm 5.2mb
 WRA 23.44 162 Pc 35 23.00 -0.3
 0.6s 19.20nm 4.8mb
 WB2 23.44 162 iPc 35 22.70 -0.7
 0.7s 30.00nm 5.4mb
 MBL 24.34 196 eP 35 34.00 1.9
 0.5s 7.00nm 4.5mb
 QIS 26.09 152 eP 35 47.00 -1.7
 ASPA 26.84 165 iPc 35 54.70 -0.8
 0.7s 15.00nm 4.7mb

10d 22h

| | | | | | |
|------|-----------------------------|----|---------|-------|--|
| | iS | 40 | 31.60 | | |
| | iScS | 46 | 03.80 | | |
| NANU | 27.07 203 iPc | 35 | 59.00 | 1.4 | |
| PSI | 27.71 271 ePc | 36 | 03.50 | -0.1 | |
| WARB | 28.40 180 iPd | 36 | 03.60 | -6.1X | |
| NST | 29.28 298 eP | 36 | 17.40 | -0.3 | |
| CTA | 29.47 140 iPd | 36 | 18.90 | -0.5 | |
| CHTO | 31.67 303 iP | 36 | 37.90 | -1.0 | |
| FORR | 33.08 178 eP | 36 | 50.00 | -0.9 | |
| | 0.4s 34.00nm | | 5.6mb | | |
| COOL | 33.50 189 eP | 36 | 54.00 | -0.6 | |
| KLB | 34.83 193 eP | 37 | 06.00 | -0.1 | |
| MUN | 35.59 195 eP | 37 | 14.00 | 1.5 | |
| RMO | 35.77 145 eP | 37 | 13.00 | -1.1 | |
| STK | 36.91 159 eP | 37 | 23.00 | -0.6 | |
| TIY | 37.51 341 eP | 37 | 27.90 | -0.8 | |
| Z | 32s 1.00um | | 4.4mszX | | |
| ADE | 38.84 164 iPd | 37 | 41.60 | 1.7 | |
| BRS | 38.85 141 eP | 37 | 39.00 | -1.1 | |
| LZH | 39.63 330 eP | 37 | 46.50 | -0.1 | |
| COO | 40.66 146 eP | 37 | 55.00 | 0.0 | |
| BWA | 41.94 153 eP | 38 | 06.90 | 1.5 | |
| MDJ | 42.13 3 eP | 38 | 07.50 | 0.7 | |
| CAN | 42.95 153 eP | 38 | 13.80 | 0.1 | |
| GTA | 44.21 330 P | 38 | 23.60 | -0.4 | |
| GBA | 49.90 286 Pd | 39 | 07.70 | -1.1 | |
| | 0.7s 8.40nm | | 4.9mb | | |
| AVY | 80.31 250 eP | 42 | 27.40 | 1.3 | |
| TTA | 82.12 27 eP | 42 | 35.40 | 0.8 | |
| IMA | 83.63 24 eP | 42 | 43.40 | 1.0 | |
| | 0.9s 11.50nm | | 5.0mb | | |
| PMR | 85.15 29 eP | 42 | 49.80 | -0.1 | |
| | 1.0s 17.50nm | | 5.2mb | | |
| INK | 91.43 21 eP | 43 | 19.00 | -0.8 | |
| MBC | 93.27 13 eP | 43 | 28.00 | -0.2 | |
| | S.D. = 1.0 on 35 of 37 obs. | | | | |

* FEB 10, 1989 22h 33m 32.00±0.75s
27.831 N ±12.3km 66.483 E ±9.0km
DEPTH = 33.0km (normol)
4.1mb (6 obs.)

PAKISTAN (710)

| | | | | |
|------|-----------------------------|----|-------|------|
| NDI | 9.50 82 eP | 35 | 50.20 | 0.6 |
| MHI | 10.31 327 eP | 36 | 00.00 | -0.8 |
| | eS | 38 | 28.00 | |
| GKN | 16.05 85 P | 37 | 15.80 | -1.2 |
| | 0.6s 11.00nm | | 4.2mb | |
| DMN | 16.50 86 P | 37 | 22.30 | -0.5 |
| KKN | 16.63 86 P | 37 | 23.50 | -1.0 |
| | 0.5s 8.00nm | | 4.1mb | |
| PKI | 16.77 86 P | 37 | 27.40 | 1.1 |
| | 0.5s 10.00nm | | 4.2mb | |
| GUN | 17.15 85 P | 37 | 31.40 | 0.2 |
| GBA | 17.46 142 P | 37 | 36.00 | 1.4 |
| KOD | 20.33 147 eP | 38 | 07.00 | -1.5 |
| CHTO | 31.05 100 e(P) | 39 | 49.30 | 0.0 |
| | 1.1s 1.77nm | | 3.8mb | |
| SUF | 43.68 334 iP | 41 | 37.00 | 1.9 |
| KJF | 43.97 337 eP | 41 | 37.00 | -0.4 |
| HFS | 47.92 328 eP | 42 | 07.40 | -1.5 |
| | 0.4s 1.80nm | | 4.5mb | |
| NB2 | 49.36 328 P | 42 | 20.10 | 0.1 |
| | 1.0s 1.90nm | | 4.1mb | |
| MBC | 76.11 1 eP | 45 | 18.00 | 0.4 |
| INK | 83.01 7 eP | 45 | 56.00 | 1.2 |
| | S.D. = 1.1 on 16 of 16 obs. | | | |

? FEB 10, 1989 23h 20m 20.49±1.67s
45.427 N ±41.9km 147.298 E ±29.5km
DEPTH = 33.0km (normol)
4.9mb (6 obs.)

KURIL ISLANDS (221)

| | | | | |
|------|--------------|----|---------|-------|
| KUSJ | 2.98 220 iPd | 21 | 01.20 | -5.3X |
| | S | 21 | 31.60 | |
| ASAJ | 3.56 250 P | 21 | 20.90 | 6.1X |
| HOJ | 4.20 225 P | 21 | 21.20 | -2.6X |
| | S | 22 | 07.10 | |
| MRRJ | 5.41 238 P | 21 | 41.90 | 1.1 |
| | eS | 22 | 44.40 | |
| OFUJ | 7.59 215 eP | 22 | 01.90 | -9.7X |
| FBA | 39.69 37 eP | 27 | 51.80 | 1.1 |
| | 1.0s 0.40nm | | 3.1mb X | |
| INK | 44.91 31 eP | 28 | 33.00 | -0.2 |
| CHTO | 47.87 253 eP | 28 | 55.00 | -2.2 |
| | 0.8s 2.38nm | | 4.3mb | |

| | | | | |
|-----|-----------------------------|----|-------|------|
| GUN | 51.04 272 P | 29 | 22.10 | 0.2 |
| | 0.6s 11.00nm | | 5.0mb | |
| KKN | 51.54 272 P | 29 | 26.00 | 0.5 |
| | 0.6s 9.00nm | | 4.9mb | |
| PKI | 51.58 272 P | 29 | 25.80 | -0.2 |
| | 0.5s 4.00nm | | 4.6mb | |
| DMN | 51.77 272 P | 29 | 27.70 | 0.4 |
| | 0.6s 14.00nm | | 5.1mb | |
| GKN | 51.86 273 P | 29 | 27.90 | 0.0 |
| | 0.4s 6.00nm | | 4.9mb | |
| YKA | 54.35 34 P | 29 | 45.20 | -0.5 |
| | S.D. = 1.1 on 10 of 14 obs. | | | |

? FEB 10, 1989 23h 39m 49.60±4.49s
10.434 N ±27.8km 62.065 W ±30.8km
DEPTH = 30.0 ± 8.4 km
NEAR COAST OF VENEZUELA (97)
MG 4.3 (FDF).

| | | | | |
|-----|---------------------------|----|-------|------|
| TCE | 0.40 50 eP | 39 | 58.62 | 0.1 |
| | eS | 40 | 07.74 | |
| TPP | 0.61 101 eP | 40 | 00.91 | -1.0 |
| | eS | 40 | 14.52 | |
| TRN | 0.68 72 eP | 40 | 02.36 | -0.7 |
| | eS | 40 | 15.97 | |
| TBH | 0.98 87 eP | 40 | 08.92 | 1.6 |
| | eS | 40 | 29.11 | |
| GRW | 1.76 13 eP | 40 | 19.36 | 0.8 |
| | eS | 40 | 45.10 | |
| SVB | 2.93 16 eP | 40 | 35.22 | 0.0 |
| | eS | 41 | 15.63 | |
| SVV | 2.98 16 eP | 40 | 36.14 | 0.2 |
| | eS | 41 | 18.32 | |
| BIM | 4.17 13 eP | 40 | 52.49 | -0.4 |
| | S | 41 | 43.00 | |
| FDF | 4.37 12 eP | 40 | 54.95 | -0.7 |
| | S.D. = 1.0 on 9 of 9 obs. | | | |

FEB 10, 1989 23h 42m 29.53±0.53s
21.556 N ±6.4km 108.245 W ±4.3km
DEPTH = 10.0km (geophysicist)
5.1mb (12 obs.) 4.8msz (1 obs.)
REVILLA GIGEDO ISLANDS REGION (53)
Ms 4.8 (BRK).

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 19C
Centroid Location:
Origin Time 23:42:28.7 3.5
Lat 21.40N Lon 108.70W 0.11
Dep 15.0 FLX Half-duration 2.0
Moment Tensor: Scale 10**16 Nm
Mrr=-2.98 0.87 Mtt=2.90 1.22
Mff=0.08 1.69 Mrt=0.00 0.00
Mrf=0.00 0.00 Mtf=-8.80 0.72
Principal Axes:
T Val= 10.40 Plg= 0 Azm=220
N -2.98 90 180
P -7.42 0 130
Best Double Couple: Mo=8.9*10**16
NP1: Strike=265 Dip=90 Slip=180
NP2: 355 90 0

| | | | | |
|-------|---------------|----|-------|------|
| MZX | 2.35 45 iP | 43 | 06.50 | -2.3 |
| CRX | 8.31 103 iPc | 44 | 40.00 | 6.7X |
| ACX | 9.19 119 iPc | 44 | 47.00 | 1.8 |
| IIISM | 10.52 102 eP | 45 | 08.50 | 5.1X |
| OXX | 11.75 110 iPc | 45 | 22.50 | 2.0 |
| GLA | 12.85 334 eP | 45 | 36.00 | 0.9 |
| BAR | 13.37 328 eP | 45 | 41.00 | -0.9 |
| ALO | 13.43 6 P | 45 | 44.80 | 2.0 |
| PLM | 14.01 329 eP | 45 | 51.00 | 0.5 |
| TPC | 14.27 333 eP | 45 | 54.00 | 0.2 |
| PEC | 14.60 329 P | 45 | 58.60 | 0.6 |
| RVR | 14.78 329 eP | 46 | 01.00 | 0.6 |
| MWC | 15.30 328 eP | 46 | 06.00 | -1.4 |
| SBB | 15.56 329 eP | 46 | 11.00 | 0.4 |
| GSC | 15.62 333 eP | 46 | 12.00 | 0.6 |
| MEQ | 15.68 31 ePc | 46 | 10.90 | -1.2 |
| | 1.3s 81.60nm | | 4.8mb | |
| NOP | 16.08 336 P | 46 | 18.50 | 1.2 |
| CLC | 16.39 332 eP | 46 | 22.00 | 0.7 |
| FKO | 16.65 33 eP | 46 | 26.30 | 1.8 |
| PANV | 16.68 334 P | 46 | 25.70 | 0.6 |
| YMT3 | 16.76 337 P | 46 | 25.70 | -0.3 |
| FMT | 16.76 336 P | 46 | 27.00 | 0.9 |
| CDH1 | 16.79 337 P | 46 | 27.80 | 1.4 |

| | | | | |
|------|----------------|----|--------|-------|
| BLP | 16.80 323 P | 46 | 25.40 | -1.0 |
| OCO | 16.81 32 e(P) | 46 | 21.00 | -5.6X |
| TMBR | 16.97 337 P | 46 | 29.90 | 1.2 |
| ACO | 17.04 26 eP | 46 | 30.70 | 1.2 |
| BCH | 17.09 325 P | 46 | 29.80 | -0.4 |
| MSU | 17.24 350 P | 46 | 33.50 | 1.3 |
| VVO | 17.57 36 ePc | 46 | 35.90 | -0.2 |
| SIO | 17.57 34 eP | 46 | 36.30 | 0.2 |
| PHAM | 17.76 326 P | 46 | 38.50 | 0.1 |
| PPK | 17.89 334 P | 46 | 41.30 | 1.0 |
| TUL | 17.97 35 iPc+ | 46 | 40.70 | -0.3 |
| | 1.4s 403.60nm | | 5.4mb | |
| Z | 19s 8.63um | | | |
| | eS | 50 | 05.00 | |
| | LR | 50 | 56.00 | |
| LNO | 17.97 35 ePc | 46 | 41.10 | 0.1 |
| PCO | 17.99 31 ePd | 46 | 41.20 | 0.0 |
| | 1.4s 245.40nm | | 5.1mb | |
| PRI | 18.13 326 eP | 46 | 42.50 | -0.6 |
| TNP | 18.20 337 P | 46 | 45.20 | 1.1 |
| GOL | 18.25 7 P | 46 | 46.00 | 1.2 |
| GLD | 18.32 7 P | 46 | 47.20 | 1.6 |
| | 1.8s 256.41nm | | 5.1mb | |
| FRI | 18.32 330 eP | 46 | 45.00 | -0.4 |
| RLO | 18.57 36 ePc | 46 | 48.50 | 0.0 |
| LLA | 18.64 326 eP | 46 | 49.10 | -0.2 |
| PRS | 18.64 325 eP | 46 | 48.30 | -1.1 |
| KVN | 19.38 336 P | 46 | 56.90 | -1.7 |
| CMB | 19.48 330 eP | 46 | 58.90 | -0.7 |
| ARN | 19.50 327 P | 46 | 59.50 | -0.3 |
| GCC | 19.50 325 e(P) | 46 | 58.90 | -0.9 |
| OLY | 20.21 43 P | 47 | 07.20 | -0.2 |
| BKS | 20.26 326 iPd | 47 | 10.20 | 2.3 |
| | 1.2s 450.00nm | | 5.7mb | |
| Z | 18s 3.70um | | 4.8msz | |
| N | 18s 3.30um | | | |
| E | 18s 2.90um | | | |
| | iS | 51 | 00.00 | |
| | eLQ | 51 | 36.00 | |
| | eLR | 52 | 28.00 | |
| BRK | 20.27 326 eP | 47 | 07.60 | -0.4 |
| BW06 | 21.19 357 P | 47 | 16.50 | -1.2 |
| | 1.5s 80.09nm | | 4.9mb | |
| ORV | 21.22 331 eP | 47 | 18.90 | 1.1 |
| MIN | 21.91 332 eP | 47 | 24.50 | -0.3 |
| PWLA | 22.19 49 P | 47 | 27.00 | -0.5 |
| FVM | 22.46 39 P | 47 | 29.80 | -0.4 |
| ELC | 22.74 42 P | 47 | 32.80 | -0.1 |
| LBFM | 22.85 333 P | 47 | 35.30 | 1.0 |
| RSCP | 24.25 50 P | 47 | 48.80 | 1.1 |
| | 1.0s 65.00nm | | 5.2mb | |
| LRM | 24.45 353 eP | 47 | 50.30 | 0.5 |
| TKL | 25.58 51 P | 48 | 00.60 | 0.2 |
| PRM | 25.99 56 P | 48 | 05.00 | 0.8 |
| JSC | 26.91 56 P | 48 | 12.80 | 0.1 |
| LHS | 27.33 56 P | 48 | 16.90 | 0.3 |
| LON | 27.44 340 P | 48 | 17.00 | -0.5 |
| SES | 28.87 356 ePc | 48 | 29.30 | -1.0 |
| CBN | 31.30 51 eP | 48 | 52.00 | 0.0 |
| RSON | 31.39 18 P | 48 | 51.00 | -1.7 |
| | 1.0s 38.75nm | | 5.3mb | |
| EDM | 31.85 354 eP | 48 | 55.00 | -1.8 |
| FFC | 33.46 7 eP | 49 | 08.50 | -2.1 |
| | 0.8s 11.00nm | | 4.8mb | |
| PRIN | 34.05 49 P | 49 | 16.00 | 0.1 |
| TBR | 34.70 48 P | 49 | 20.60 | -1.0 |
| GAC | 35.99 40 eP | 49 | 32.00 | -0.4 |
| RSNY | 36.00 42 P | 49 | 31.80 | -0.8 |
| | 1.0s 33.33nm | | 5.2mb | |
| BNH | 38.11 44 P | 49 | 50.90 | 0.6 |
| CBM | 41.08 42 P | 50 | 14.20 | -0.7 |
| YKA | | | | |

10.312 S \pm 7.7km 119.262 E \pm 9.5km
 DEPTH = 33.0km (normal)
 4.6mb (1 obs.)
 SUMBA ISLAND REGION (287)

| | | | | | | |
|------|-------|--------|----|----|-------|-----------------------------|
| KNA | 10.72 | 121 | eP | 03 | 43.00 | 0.6 |
| MBL | 10.80 | 177 | eP | 03 | 42.00 | -1.5 |
| | 0.2s | 3.00nm | eS | 05 | 33.00 | 5.2mb X |
| NANU | 12.69 | 196 | eP | 04 | 09.00 | -0.1 |
| | 0.3s | 4.00nm | eS | 06 | 22.00 | 5.1mb X |
| WB5 | 17.40 | 125 | eP | 05 | 10.00 | -0.1 |
| WB2 | 17.42 | 125 | eP | 05 | 10.00 | -0.3 |
| MRWA | 19.06 | 189 | eP | 05 | 32.00 | 1.6 |
| | | | eS | 08 | 49.00 | |
| ASPA | 19.27 | 135 | eP | 05 | 36.20 | 3.2X |
| GUN | 49.88 | 320 | P | 10 | 01.10 | 0.1 |
| PKI | 49.94 | 320 | P | 10 | 01.20 | -0.2 |
| | 0.6s | 4.00nm | | | | 4.6mb |
| DMN | 50.16 | 320 | P | 10 | 02.90 | -0.1 |
| KKN | 50.17 | 320 | P | 10 | 03.20 | 0.2 |
| GKN | 50.73 | 320 | P | 10 | 07.00 | -0.2 |
| | | | | | | S.D. = 0.8 on 11 of 12 obs. |

* FEB 11, 1989 00h 05m 22.23 \pm 0.69s
 10.267 S \pm 8.5km 119.389 E \pm 12.7km
 DEPTH = 33.0km (normal)
 SUMBA ISLAND REGION (287)

| | | | | | | |
|------|-------|--------|-----|----|-------|----------------------------|
| MBL | 10.84 | 178 | eP | 07 | 58.00 | -0.3 |
| | 0.2s | 2.00nm | eS | 09 | 49.00 | 5.0mb X |
| MTN | 11.79 | 104 | eP | 08 | 11.00 | -0.1 |
| | | | eS | 10 | 17.00 | |
| NANU | 12.77 | 196 | eP | 08 | 23.00 | -1.3 |
| | | | eS | 10 | 37.00 | |
| MRWA | 19.12 | 189 | eP | 09 | 47.00 | 1.7 |
| | | | eS | 13 | 04.00 | |
| ASPA | 19.22 | 136 | eP | 09 | 57.00 | 10.5X |
| GUN | 49.93 | 320 | PKP | 14 | 15.60 | 0.1 |
| PKI | 49.99 | 320 | PKP | 14 | 19.80 | 3.9X |
| DMN | 50.21 | 319 | PKP | 14 | 18.00 | 0.5 |
| KKN | 50.22 | 320 | PKP | 14 | 17.10 | -0.5 |
| GKN | 50.78 | 319 | PKP | 14 | 21.60 | -0.1 |
| | | | | | | S.D. = 1.0 on 8 of 10 obs. |

? FEB 11, 1989 00h 13m 45.21 \pm 4.11s
 22.001 S \pm 37.2km 172.767 E \pm 42.6km
 DEPTH = 33.0km (normal)
 4.9mb (3 obs.)
 LOYALTY ISLANDS REGION (189)

| | | | | | | |
|------|-------|----------|-----|----|-------|----------------------------|
| DZM | 5.87 | 268 | iPc | 15 | 12.00 | -0.3 |
| | | | iS | 16 | 15.90 | |
| RMO | 22.33 | 254 | eP | 18 | 43.00 | 1.3 |
| CNB | 24.37 | 232 | iPd | 19 | 02.50 | 0.9 |
| CAN | 24.64 | 232 | eP | 19 | 04.30 | 0.1 |
| BWA | 24.70 | 235 | eP | 19 | 03.00 | -1.7 |
| CTA | 24.81 | 270 | iPd | 19 | 11.10 | 5.3X |
| | 1.8s | 113.64nm | | | | 5.2mb |
| ASPA | 35.79 | 260 | iPd | 20 | 43.60 | 0.1 |
| | 2.1s | 40.00nm | | | | 5.0mb |
| WB5 | 35.87 | 266 | eP | 20 | 44.00 | -0.2 |
| WB2 | 35.87 | 266 | eP | 20 | 44.00 | -0.2 |
| WRA | 35.88 | 266 | Pd | 20 | 51.30 | 7.0X |
| | 0.7s | 2.30nm | | | | 4.2mb |
| | | | | | | S.D. = 1.1 on 8 of 10 obs. |

* FEB 11, 1989 00h 27m 20.22 \pm 1.02s
 2.366 N \pm 21.1km 126.461 E \pm 30.9km
 DEPTH = 33.0km (normal)
 4.4mb (2 obs.)
 MOLUCCA PASSAGE (266)

| | | | | | | |
|------|-------|--------|-----|----|-------|-------|
| WRA | 23.48 | 161 | Pd | 32 | 27.90 | -0.1 |
| | 0.6s | 4.30nm | | | | 4.1mb |
| WB2 | 23.49 | 161 | eP | 32 | 26.80 | -1.3 |
| ASPA | 26.87 | 165 | iPd | 33 | 01.50 | 1.4 |
| CHG | 31.51 | 303 | eP | 33 | 42.00 | 0.3 |
| LZH | 39.54 | 331 | eP | 34 | 50.00 | -0.1 |
| GUN | 46.32 | 307 | P | 35 | 45.40 | -0.1 |
| PKI | 46.55 | 307 | P | 35 | 48.20 | 0.9 |
| KKN | 46.74 | 307 | P | 35 | 48.20 | -0.5 |
| DMN | 46.81 | 306 | P | 35 | 49.40 | 0.2 |
| GKN | 47.35 | 307 | P | 35 | 53.00 | -0.4 |
| HYB | 49.34 | 291 | eP | 36 | 08.00 | -0.8 |

GBA 49.71 286 Pc 36 11.70 0.1
 0.7s 4.40nm 4.6mb
 MHI 70.12 308 eP 38 32.00 0.2
 S.D. = 0.8 on 13 of 13 obs.

* FEB 11, 1989 00h 52m 23.42 \pm 1.32s
 6.837 N \pm 8.7km 73.004 W \pm 11.6km
 DEPTH = 163.6 \pm 14.2 km
 4.4mb (5 obs.)
 NORTHERN COLOMBIA (99)

| | | | | | | |
|------|--------|---------|-------|----|-------|-----------------------------|
| BOG | 2.44 | 206 | eP | 53 | 05.00 | -0.3 |
| | | | eS | 53 | 36.00 | |
| PSO | 7.07 | 218 | eP | 54 | 06.00 | 0.1 |
| ATB | 23.05 | 115 | e(P) | 57 | 16.30 | 0.9 |
| ZOBO | 23.46 | 168 | P | 57 | 19.00 | -1.0 |
| LPB | 23.72 | 168 | P | 57 | 23.00 | 0.7 |
| CNCB | 24.01 | 168 | P | 57 | 25.70 | 0.5 |
| PWLA | 31.25 | 336 | P | 58 | 31.00 | 1.3 |
| OLY | 33.19 | 332 | P | 58 | 46.10 | -0.4 |
| ELC | 33.72 | 336 | P | 58 | 50.70 | -0.3 |
| FVM | 34.80 | 336 | P | 59 | 00.90 | 0.6 |
| ALQ | 41.58 | 317 | eP | 59 | 56.00 | -0.9 |
| | 1.0s | 2.50nm | | | | 3.8mb |
| GLD | 43.70 | 323 | P | 00 | 14.90 | 0.9 |
| | 0.8s | 21.18nm | | | | 4.8mb |
| GOL | 43.75 | 323 | P | 00 | 15.10 | 0.5 |
| RSON | 47.14 | 342 | P | 00 | 40.00 | -0.9 |
| | 0.5s | 7.83nm | | | | 4.6mb |
| MSU | 47.37 | 318 | P | 00 | 44.00 | 0.9 |
| BW06 | 48.14 | 324 | P | 00 | 48.70 | -0.3 |
| | 1.1s | 13.76nm | | | | 4.5mb |
| TNP | 50.63 | 315 | P | 01 | 08.50 | 0.4 |
| | 0.7s | 2.22nm | | | | 3.9mb |
| LRM | 51.63 | 325 | eP | 01 | 15.50 | 0.0 |
| KVN | 51.68 | 315 | P | 01 | 15.50 | -0.5 |
| SES | 53.74 | 331 | eP | 01 | 31.00 | 0.2 |
| LBFM | 55.29 | 316 | P | 01 | 41.50 | -0.9 |
| DPW | 56.04 | 325 | P | 01 | 47.20 | -0.3 |
| VGB | 56.41 | 321 | P | 01 | 50.60 | 0.5 |
| EDM | 56.66 | 332 | iPc | 01 | 50.60 | -1.1 |
| YKA | 63.29 | 340 | P | 02 | 36.20 | -0.4 |
| KIC | 67.76 | 86 | P | 03 | 04.60 | -1.4 |
| INK | 73.05 | 340 | ePc | 03 | 37.00 | 0.2 |
| MBC | 73.81 | 350 | eP | 03 | 42.00 | 0.9 |
| ASPA | 149.22 | 234 | iPKPc | 11 | 53.80 | 3.5X |
| | 0.7s | 6.00nm | | | | |
| WB2 | 150.43 | 241 | ePKP | 11 | 57.20 | 5.0X |
| WRA | 150.44 | 241 | PKPd | 11 | 57.30 | 5.1X |
| | 0.4s | 2.20nm | | | | |
| WB5 | 150.44 | 241 | ePKP | 11 | 57.20 | 5.0X |
| | | | | | | S.D. = 0.8 on 28 of 32 obs. |

FEB 11, 1989 01h 07m 43.15 \pm 1.11s
 32.872 S \pm 7.1km 71.375 W \pm 10.8km
 DEPTH = 33.0km (normal)
 NEAR COAST OF CENTRAL CHILE (135)

| | | | | | | |
|------|-------|-----|------|----|-------|-----------------------------|
| ROCH | 0.32 | 108 | iPd | 07 | 50.60 | -0.8 |
| | | | iS | 07 | 59.50 | |
| LCCH | 0.62 | 195 | iPc | 07 | 54.40 | -1.1 |
| | | | iS | 08 | 04.00 | |
| PEL | 0.64 | 115 | iPd | 07 | 55.60 | -0.2 |
| JACH | 0.69 | 74 | iP | 07 | 54.50 | -2.0 |
| SAN | 0.83 | 134 | iPd | 07 | 58.50 | 0.0 |
| | | | iS | 08 | 12.70 | |
| TACH | 0.86 | 155 | iP | 07 | 59.00 | 0.1 |
| FCH | 1.02 | 117 | iP | 08 | 01.50 | 0.1 |
| | | | iS | 08 | 17.80 | |
| PCH | 1.04 | 136 | iP | 08 | 02.10 | 0.6 |
| | | | iS | 08 | 19.40 | |
| LNv | 1.08 | 182 | iPd | 08 | 02.00 | 0.0 |
| CHCH | 1.22 | 150 | eP | 08 | 05.00 | 1.0 |
| | | | iS | 08 | 24.70 | |
| MDZ | 2.12 | 91 | iPc | 08 | 19.00 | 1.9 |
| | | | iS | 08 | 31.20 | |
| ZON | 2.64 | 61 | eP | 08 | 25.00 | 0.6 |
| CFA | 2.94 | 65 | e(P) | 08 | 27.50 | -1.2 |
| CNCB | 16.28 | 12 | P | 11 | 40.00 | 8.4X |
| LPB | 16.54 | 11 | (P) | 11 | 43.00 | 8.4X |
| ZOBO | 16.79 | 11 | eP | 11 | 39.00 | 1.0 |
| | | | | | | S.D. = 1.1 on 14 of 16 obs. |

FEB 11, 1989 01h 08m 37.75 \pm 0.54s
 2.449 N \pm 9.2km 126.884 E \pm 10.2km
 DEPTH = 33.0km (normal)
 4.8mb (2 obs.)

MOLUCCA PASSAGE (266)

| | | | | | | |
|------|-------|---------|-----|----|-------|-----------------------------|
| MNI | 2.27 | 244 | ePd | 09 | 14.20 | 0.4 |
| | | | eS | 09 | 39.00 | |
| WB5 | 23.37 | 162 | eP | 13 | 44.60 | 0.1 |
| WRA | 23.43 | 162 | Pd | 13 | 45.20 | 0.2 |
| | 0.5s | 5.70nm | | | | 4.3mb |
| WB2 | 23.43 | 162 | eP | 13 | 44.60 | -0.4 |
| ASPA | 26.84 | 166 | eP | 14 | 17.90 | 0.6 |
| CTA | 29.38 | 141 | eP | 14 | 41.00 | 0.7 |
| FORR | 33.13 | 178 | iPd | 15 | 11.70 | -1.4 |
| | 0.4s | 15.00nm | | | | 5.2mb |
| BRS | 38.76 | 142 | Pd | 16 | 01.10 | 0.0 |
| BWA | 41.90 | 153 | eP | 16 | 30.20 | 3.4X |
| | | | e | 18 | 04.90 | |
| GUN | 46.61 | 307 | P | 17 | 05.40 | 0.1 |
| | 0.9s | 24.00nm | | | | 5.2mb X |
| PKI | 46.84 | 306 | P | 17 | 07.20 | 0.1 |
| KKN | 47.03 | 306 | P | 17 | 08.20 | -0.3 |
| DMN | 47.10 | 306 | P | 17 | 09.00 | -0.1 |
| GKN | 47.64 | 306 | P | 17 | 08.10 | -5.1X |
| | 0.9s | 18.00nm | | | | 5.1mb X |
| MHI | 70.41 | 308 | eP | 19 | 51.00 | -0.1 |
| | | | | | | S.D. = 0.6 on 13 of 15 obs. |

FEB 11, 1989 01h 19m 40.40 \pm 0.44s
 45.202 N \pm 3.3km 7.486 E \pm 4.2km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.7 (GEN), 2.3 (LDG).

| | | | | | | |
|-----|------|-----|-----|----|-------|------|
| RSP | 0.17 | 253 | P | 19 | 45.16 | 0.8 |
| | | | S | 19 | 47.49 | |
| LSD | 0.35 | 318 | P | 19 | 47.92 | 0.3 |
| | | | S | 19 | 51.90 | |
| ORO | 0.55 | 39 | P | 19 | 51.60 | 0.1 |
| | | | eSg | 19 | 58.50 | |
| ORX | 0.55 | 39 | P | 19 | 51.98 | 0.2 |
| | | | S | 19 | 58.36 | |
| RRL | 0.57 | 241 | P | 19 | 52.23 | 0.1 |
| | | | S | 19 | 58.81 | |
| BNI | 0.59 | 256 | Pc | 19 | 52.40 | -0.1 |
| | | | eSg | 19 | 59.50 | |
| LPG | 0.60 | 300 | Pg | 19 | 51.90 | -0.8 |
| | | | Sg | 19 | 59.20 | |
| LPL | 0.62 | 301 | Pg | 19 | 52.40 | |

11d 01h

PJG 21.21 57 eP 40 15.00 1.6
GUA 21.23 58 eP 40 14.00 0.5
0.7s 32.88nm 4.8mb
QIZ 23.31 316 eP 40 31.00 -3.0X
eS 44 30.00
WB5 23.39 161 iPc 40 33.90 -0.9
eS 44 47.80
WRA 23.44 161 Pc 40 34.40 -0.9
0.6s 54.30nm 5.2mb
WB2 23.44 161 iPc 40 33.90 -1.4
eS 44 47.80
GZH 24.28 329 eP 40 42.50 -0.9
MBL 24.31 196 eP 40 45.00 1.3
1.0s 74.00nm 5.1mb
IPM 25.63 276 ePd 41 01.50 5.2X
1.0s 35.30nm 4.8mb
QIS 26.11 151 iPd 40 59.70 -0.9
ASPA 26.84 165 iPc 41 05.80 -1.5
eS 44 29.20
ePcP 45 49.20
NANU 27.04 203 eP 41 09.50 0.4
0.4s 5.00nm 4.5mb
WARB 28.39 180 eP 41 14.80 -6.5X
LOE 28.64 303 eP 41 22.00 -1.7
SSE 29.02 350 eP 41 27.00 0.1
1.0s 22.00nm 4.7mb
Z 24s 0.50um 4.0MsZ
NST 29.24 298 eP 41 29.20 0.1
CTA 29.49 140 iPd 41 30.90 -0.4
1.2s 63.28nm 5.2mb
MEKA 29.85 195 iPd 41 34.50 0.0
WHN 30.33 339 eP 41 39.00 0.4
Z 30s 9.96um 5.3MsZ
N 18s 2.00um
E 26s 6.96um
NJ2 30.41 347 eP 41 41.00 1.7
Z 24s 1.00um 4.4MsZ
GYA 30.66 323 P 41 41.40 -0.3
BDT 30.88 300 eP 41 43.50 -0.1
0.6s 32.10nm 5.2mb
CHG 31.63 303 iPc 41 49.00 -1.3
0.9s 33.61nm 5.1mb
FORR 33.07 178 eP 42 01.00 -1.5
0.8s 128.00nm 5.8mb
BAL 34.13 195 eP 42 12.00 0.3
TIA 34.80 346 eP 42 16.50 -0.9
KLB 34.81 193 eP 42 18.00 0.4
MUN 35.56 195 eP 42 24.00 0.1
XAN 35.57 334 Pc 42 22.10 -2.0
MAT 35.65 16 eP 42 22.00 -2.7
1.5s 80.56nm 5.4mb
CD2 35.67 325 eP 42 23.40 -1.6
RMQ 35.79 145 eP 42 24.00 -2.0
e 44 54.00
NWA0 36.21 193 eP 42 29.00 -0.4
DL2 36.64 353 eP 42 35.40 2.4
STK 36.92 159 iPd 42 35.20 -0.2
RKG 37.36 193 eP 42 44.00 5.0X
TIY 37.50 341 Pc 42 39.40 -0.9
Z 30s 2.20um 4.8MsZ
BJI 38.67 347 P 42 49.50 -0.5
Z 28s 0.70um 4.3MsZ
ePcP 44 53.00
ePcS 48 40.00
ADE 38.84 164 iPc 42 53.10 1.6
0.8s 67.16nm 5.6mb
BRS 38.87 141 Pd 42 51.00 -0.9
e 44 20.00
SNY 39.37 356 eP 42 55.60 -0.2
N 31s 0.90um
E 33s 0.60um
S 48 55.00
LZH 39.61 331 eP 42 57.50 -0.6
1.5s 66.00nm 5.3mb
Z 28s 8.20um 5.4MsZ
N 25s 7.70um
E 18s 1.90um
HHC 40.64 342 P 43 06.00 -0.4
COO 40.68 146 eP 43 02.00 -4.8X
e 43 06.00
e 44 45.00
CN2 41.27 359 eP 43 13.00 1.7
BWA 41.95 153 eP 43 18.30 1.1

MDJ 42.15 3 eP 43 19.00 0.4
CAN 42.96 153 eP 43 25.90 0.5
CNB 43.12 152 eP 43 27.00 0.3
LSA 43.25 313 P 43 28.60 0.3
TOO 43.43 158 eP 43 30.00 0.9
GTA 44.20 330 iPc 43 35.00 -0.5
Z 34s 1.70um 4.7MsZ
E 30s 1.20um
PP 45 20.30
GUN 46.43 307 P 43 52.60 -1.1
PKI 46.66 306 P 43 54.00 -1.5
KKN 46.86 307 P 43 55.40 -1.5
0.8s 40.00nm 5.4mb
DMN 46.92 306 P 43 56.80 -0.7
1.0s 66.00nm 5.5mb
GKN 47.46 307 P 44 00.40 -1.2
KOD 49.41 281 eP 44 16.00 -1.0
HYB 49.47 291 eP 44 16.00 -1.1
1.0s 45.00nm 5.5mb
GBA 49.85 286 P 44 18.50 -1.5
WMO 53.76 326 iPc 44 48.60 -0.4
NDI 53.77 304 eP 44 43.00 -6.2X
KSH 58.89 316 P 45 26.50 0.7
MHI 70.24 308 iPc 46 39.80 0.2
AVY 80.26 250 iPc 47 38.02 1.0
TAB 80.89 308 eP 47 42.00 2.0
TTA 82.16 27 eP 47 47.30 1.3
KDC 83.14 32 eP 47 51.80 0.8
BRW 83.49 18 eP 47 54.30 1.7
IMA 83.67 24 eP 47 55.20 1.4
1.0s 31.30nm 5.3mb
PMR 85.19 29 eP 48 01.50 0.2
1.2s 70.30nm 5.6mb
PRNI 90.21 300 iPd 48 27.50 1.3
NOH 90.22 301 eP 48 26.00 -0.3
MBH 90.34 300 eP 48 28.00 1.3
INK 91.46 21 eP 48 31.00 -0.1
SOD 91.67 338 iP 48 33.60 1.5
i 48 49.20
KJF 91.76 334 iP 48 32.20 -0.3
0.7s 13.30nm 5.5mb
SUF 92.70 333 iP 48 36.20 -0.7
0.8s 3.70nm 4.9mb
MBC 93.29 13 eP 48 40.00 0.5
BUL 98.32 250 iPd 49 04.40 0.9
NB2 99.94 333 P 49 08.30 -1.8
0.8s 2.30nm 4.8mb
YKA 100.78 24 Pdiff 49 14.70 1.1
ALQ 118.02 48 ePKP 54 13.00 0.1
MDZ 146.36 156 iPKPc 55 06.60 1.1
CNCB 159.71 136 PKP 55 28.00 2.9X
LPB 159.82 135 PKP 55 29.00 3.9X
ZOBO 159.98 134 PKP 55 28.00 2.6
S.D. = 1.2 on 88 of 99 obs.
FEB 11, 1989 01h 40m 38.27 ± 0.76s
64.457 N ± 6.0km 153.425 W ± 10.0km
DEPTH = 14.0 ± 5.9 km
4.1mb (1 obs.)
CENTRAL ALASKA (1)
ML 4.3 (PMR).
IMA 1.62 356 iPc 41 08.90 2.3
TTA 1.92 218 iPc 41 10.30 -0.6
FBA 2.46 77 iPc 41 17.90 -0.6
PWA 3.25 149 eP 41 30.30 0.6
PMR 3.48 144 iPd 41 33.00 0.1
eS 42 23.80
SVW 3.51 198 eP 41 32.30 -1.2
PMS 3.68 149 iPd 41 36.10 0.2
TOA 4.04 122 eP 41 41.40 0.4
DWY 6.11 87 P 42 09.00 -1.2
KDC 6.75 176 eP 42 19.30 0.1
BRW 6.99 351 e(P) 42 22.20 -0.4
INK 8.85 55 eP 42 46.50 -2.0
MBC 16.08 29 eP 44 24.00 -0.9
YKA 17.26 79 P 44 40.30 0.3
EDM 23.15 100 eP 45 46.50 1.9
BW06 32.87 110 eP 47 15.50 1.9
0.5s 1.12nm 4.1mb
GOL 37.17 108 eP 48 06.00 15.6X
S.D. = 1.3 on 16 of 17 obs.
FEB 11, 1989 01h 57m 06.83 ± 0.68s
2.384 N ± 3.6km 126.603 E ± 4.7km
DEPTH = 65.7 ± 6.3 km
5.2mb (27 obs.)

MOLUCCA PASSAGE (266)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 29C
Centroid Location:
Origin Time 01:57: 4.8 0.3
Lat 2.37N FIX; Lon 126.72E FIX
Dep 42.2 2.7 Half-duration 3.0
Moment Tensor; Scale 10**17 Nm
Mrr= 5.00 0.29 Mtt=-1.41 0.25
Mff=-3.59 0.44 Mrt=-0.73 0.38
Mrf= 0.66 0.39 Mtf=-3.32 0.29
Principal Axes:
T Val= 5.23 Plg=77 Azm=218
N 0.77 13 36
P -6.00 1 126
Best Double Couple: Ma=5.6*10**17
NP1: Strike=229 Dip=46 Slip= 108
NP2: 23 47 72
MNI 1.99 242 iPc 57 40.40 1.5
DAV 4.78 348 eP 58 19.80 1.7
AAI 6.24 165 eP 58 43.00 4.6X
TSM 8.71 282 eP 59 14.10 1.5
PPR 10.73 314 ePc 59 36.00 -4.2X
KKM 10.98 290 ePc 59 45.00 1.4
1.0s 117.70nm 5.8mb
QCP 13.34 336 eP 00 10.00 -4.9X
JAY 14.91 109 ePd 00 38.00 2.5
1.0s 207.80nm 5.3mb
BAG 15.15 337 eP 00 38.00 -0.6
eS 03 26.00
MTN 15.78 164 eP 00 43.00 -3.6X
KNA 18.14 173 iPc 01 15.10 -0.9
MNDI 19.03 117 eP 01 28.00 1.2
GUMO 21.21 57 eP 01 48.50 -0.7
0.8s 87.85nm 5.2mb
PJG 21.21 57 eP 01 48.80 -0.4
GUA 21.23 58 eP 01 49.00 -0.4
0.7s 54.79nm 5.0mb
KLI 22.89 252 eP 02 06.50 0.7
HKC 23.19 330 P 02 08.00 -0.7
S 06 15.00
QIZ 23.30 316 eP 02 10.20 0.4
N 17s 3.10um
E 17s 3.40um
WB5 23.40 161 iPc 02 09.00 -1.8
eS 06 21.50
WRA 23.45 161 P 02 11.00 -0.3
0.7s 54.30nm 5.1mb
WB2 23.46 161 iPc 02 09.00 -2.3
eS 06 21.50
PMG 23.59 120 e(P) 02 04.00 -8.6X
1.0s 48.00nm 4.9mb
QZH 23.72 342 eP 02 13.00 -0.8
Z 28s 12.60um 5.2MsZ
N 28s 12.60um
S 06 20.00
GZH 24.26 329 Pd 02 18.50 -0.6
Z 32s 4.30um 4.7MsZ
N 14s 17.00um
S 06 32.20
MBL 24.32 195 eP 02 19.00 -0.7
0.6s 20.00nm 4.8mb
IPM 25.62 276 ePc 02 32.90 0.8
1.0s 42.20nm 4.9mb
QIS 26.12 151 iPd 02 35.30 -1.3
0.4s 60.00nm 5.5mb
PPI 26.35 264 eP 02 40.00 1.2
ASPA 26.85 165 iPc 02 41.50 -1.8
ePcP 06 05.90
eS 07 16.20
NANU 27.05 203 eP 02 45.50 0.5
0.4s 13.00nm 4.9mb
PSI 27.65 271 ePc 02 48.40 -2.2
0.7s 19.40nm 4.8mb
WARB 28.40 180 eP 02 50.00 -7.2X
0.3s 12.00nm 5.0mb
LOE 28.63 303 eP 02 58.00 -1.4
SSE 29.01 350 Pd 03 01.50 -1.2
0.8s 22.00nm 4.8mb
Z 22s 1.40um 4.5MsZ
E 18s 2.10um
eP 03 25.00 106kmX
eP 03 59.00
S 07 48.00

| | | | | | | | | | | | | | | | | | | | | |
|------|-------|----------|---------|-------|---------|------|------|--------|----------|--------|----------|---------|--------|--------|------------------|------------|------------------|--------------------|------------------|-------|
| NST | 29.23 | 298 | eP | 03 | 04.00 | -0.8 | | N | 25s | 5.20um | | FCH | 145.39 | 155 | ePKP | 16 | 42.50 | 2.6 | | |
| CTA | 29.51 | 140 | iPc | 03 | 05.80 | -1.5 | CN2 | 41.25 | 359 | eP | 04 | 47.00 | 0.0 | JACH | 145.81 | 154 | ePKP | 16 | 42.00 | 1.7 |
| | 1.3s | 96.15nm | | | 5.3mb | | | 5.0s | 0.70nm | | | 2.7mb X | MDZ | 146.37 | 156 | iPKPc | 16 | 32.00 | -9.2X | |
| | | i | 06 | 12.70 | | | Z | 28s | 2.40um | | | 4.9MszX | ARE | 157.36 | 129 | ePKP | 17 | 14.00 | 16.2X | |
| MEKA | 29.86 | 195 | eP | 03 | 10.00 | -0.4 | | E | 14s | 0.70um | | | CNCB | 159.72 | 136 | PKP | 17 | 04.00 | 3.2X | |
| | 0.3s | 18.00nm | | | 5.3mb | | BWA | 41.97 | 153 | eP | 05 | 05.00 | | LPB | 159.83 | 135 | PKP | 17 | 04.00 | 3.3X |
| WHN | 30.32 | 339 | eP | 03 | 13.80 | -0.5 | | | | e | 06 | 31.50 | | | | | | | | |
| NJ2 | 30.40 | 347 | Pd | 03 | 15.30 | 0.3 | MDJ | 42.14 | 3 | eP | 04 | 54.50 | 0.2 | ZOBO | 159.99 | 134 | PKP | 17 | 04.30 | 3.2X |
| Z | 26s | 4.80um | | | 5.0MszX | | Z | 30s | 3.70um | | | 5.1MszX | Z | 24s | 0.53um | | | 5.3MszX | | |
| GYA | 30.65 | 323 | P | 03 | 19.20 | 1.8 | | | | esP | 05 | 13.00 | | | | LR | 14 | 16.00 | | |
| Z | 25s | 2.70um | | | 4.8MszX | | | | | iS | 11 | 10.00 | | CCH | 160.54 | 141 | ePKP | 17 | 00.50 | -0.8 |
| BDT | 30.87 | 300 | eP | 03 | 19.50 | 0.2 | CAN | 42.97 | 153 | eP | 05 | 01.50 | 0.2 | | | S.D. = 1.3 | | on 128 of 143 obs. | | |
| | 0.6s | 25.00nm | | | 5.1mb | | CNB | 43.14 | 152 | iPd | 05 | 03.70 | 1.0 | | | | | | | |
| CHG | 31.62 | 303 | iPc | 03 | 24.90 | -1.1 | LSA | 43.24 | 313 | P | 05 | 04.00 | 0.0 | | | | | | | |
| | 1.1s | 43.67nm | | | 5.2mb | | | | | S | 11 | 26.00 | | | | | | | | |
| MRWA | 33.03 | 197 | eP | 03 | 37.50 | -0.5 | TOO | 43.44 | 158 | iPc | 05 | 06.90 | 1.8 | | | | | | | |
| FORR | 33.08 | 178 | iPc | 03 | 36.70 | -1.7 | GTA | 44.18 | 330 | P | 05 | 10.00 | -1.2 | | | | | | | |
| COOL | 33.49 | 189 | eP | 03 | 40.00 | -2.1 | | Z | 28s | 7.90um | | 5.5MszX | | | | | | | | |
| BAL | 34.14 | 195 | eP | 03 | 47.00 | -0.6 | E | 23s | 5.40um | | | | | | | | | | | |
| TIA | 34.78 | 346 | eP | 03 | 51.70 | -1.4 | | | | PP | 06 | 55.80 | | | | | | | | |
| Z | 25s | 3.60um | | | 5.0MszX | | GUN | 46.42 | 307 | P | 05 | 28.20 | -1.2 | VLO | 1.10 | 22 | iPgD | 01 | 26.70 | -0.8 |
| | | eS | 09 | 15.00 | | | PKI | 46.65 | 306 | P | 05 | 30.80 | -0.4 | TPE | 1.17 | 43 | iPgC | 01 | 28.00 | -0.7 |
| KLB | 34.82 | 193 | eP | 03 | 53.00 | -0.5 | KKN | 46.85 | 307 | P | 05 | 31.60 | -1.0 | LCI | 1.17 | 319 | P | 01 | 22.90 | -5.9X |
| CHJJ | 35.41 | 17 | eP | 03 | 56.00 | -2.4 | DMN | 46.91 | 306 | P | 05 | 32.20 | -1.0 | | | | eSg | 01 | 37.40 | |
| XAN | 35.56 | 334 | eP | 03 | 57.40 | -2.4 | GKN | 47.45 | 307 | P | 05 | 36.30 | -1.0 | LSK | 1.44 | 61 | iPgC | 01 | 33.80 | 0.6 |
| | N | 26s | 6.20um | | | | KOD | 49.40 | 281 | eP | 05 | 52.00 | -0.7 | BERA | 1.46 | 31 | ePn | 01 | 31.80 | -1.5 |
| | E | 24s | 4.80um | | | | HYB | 49.46 | 291 | eP | 05 | 50.60 | -2.2 | BRT | 1.96 | 317 | P | 01 | 38.80 | -1.7 |
| | | S | 09 | 24.60 | | | | 1.2s | 128.60nm | | | 5.8mb | | | | | eSg | 02 | 03.30 | |
| MUN | 35.57 | 195 | eP | 04 | 01.00 | 1.2 | GBA | 49.84 | 286 | P | 05 | 54.30 | -1.4 | TIR | 2.02 | 20 | ePn | 01 | 41.70 | 0.4 |
| MTMJ | 35.57 | 16 | eP | 03 | 07.90 | -2.0 | WMO | 53.75 | 326 | P | 06 | 25.00 | 0.3 | TDS | 2.04 | 277 | P | 01 | 41.80 | 0.2 |
| MAT | 35.64 | 16 | eP | 03 | 08.00 | -2.4 | | Z | 28s | 2.50um | | 5.1MszX | OHR | 2.18 | 40 | iPn | 01 | 43.20 | -0.5 | |
| | 1.1s | 41.77nm | | | 5.3mb | | | | | ScS | 16 | 06.60 | | LACI | 2.26 | 14 | iPnd | 01 | 45.40 | 0.6 |
| | Z | 20s | 2.48um | | 5.0Msz | | NDI | 53.76 | 304 | eP | 06 | 23.00 | -1.9 | PHP | 2.51 | 26 | ePn | 01 | 51.40 | 3.1X |
| | | eS | 09 | 23.00 | | | POO | 54.07 | 291 | eP | 06 | 25.50 | -1.9 | SDA | 2.60 | 9 | ePn | 01 | 52.00 | 2.4 |
| CD2 | 35.66 | 325 | eP | 03 | 59.00 | -1.7 | KSH | 58.87 | 316 | P | 07 | 02.70 | 1.2 | SOI | 2.65 | 240 | P | 01 | 50.40 | 0.0 |
| Z | 36s | 2.20um | | | 4.7MszX | | KRP | 60.41 | 137 | eP | 07 | 12.00 | 0.2 | | | | eSn | 02 | 19.60 | |
| N | 10s | 0.40um | | | | | MHI | 70.23 | 308 | eP | 08 | 15.00 | -0.2 | MGR | 2.71 | 286 | P | 01 | 51.70 | 0.4 |
| | | ePp | 04 | 14.80 | 62kmX | | | 1.0s | 84.00nm | | | 5.6mb | | KKS | 2.85 | 22 | ePn | 01 | 50.00 | -3.1X |
| | | sP | 04 | 20.60 | | | AVY | 80.26 | 250 | iPd | 09 | 14.00 | 1.3 | BCI | 3.03 | 16 | ePn | 01 | 56.40 | 0.7 |
| | | S | 09 | 28.30 | | | TAB | 80.88 | 308 | eP | 09 | 16.00 | 0.3 | SKO | 3.15 | 36 | iPn | 02 | 04.00 | 6.6X |
| RMO | 35.80 | 145 | eP | 04 | 00.00 | -1.9 | TTA | 82.15 | 27 | eP | 09 | 23.00 | 1.3 | VAY | 3.33 | 55 | ePn | 02 | 08.30 | 8.2X |
| | | e | 06 | 31.00 | | | BHD | 82.19 | 303 | eP | 09 | 23.00 | 0.6 | | | | S.D. = 1.2 | | on 13 of 18 obs. | |
| NWAO | 36.22 | 193 | eP | 04 | 06.00 | 0.7 | | | | eS | 19 | 34.00 | | | | | | | | |
| DL2 | 36.63 | 353 | P | 04 | 09.00 | 0.3 | MAW | 82.46 | 200 | eP | 09 | 25.00 | 2.0 | % | FEB 11, 1989 | 02h | 15m | 22.04±0.85s | | |
| | Z | 24s | 2.00um | | 4.8MszX | | KDC | 83.13 | 32 | ePd | 09 | 27.40 | 0.7 | | 42.338 N ± 7.9km | | 19.255 E ± 7.3km | | | |
| | N | 14s | 1.40um | | | | MSL | 83.32 | 306 | ePd | 09 | 28.50 | 0.3 | | DEPTH = 10.0km | | (geophysicist) | | | |
| | E | 14s | 1.80um | | | | BRW | 83.48 | 18 | eP | 09 | 30.00 | 1.7 | | | | | | | |
| | | S | 09 | 46.00 | | | IMA | 83.66 | 24 | iPc | 09 | 30.70 | 1.2 | | | | | | | |
| STK | 36.93 | 159 | eP | 04 | 10.00 | -1.3 | | | | 1.4s | 104.70nm | | 5.7mb | TTG | 0.09 | 3 | iPgC | 15 | 25.50 | 0.9 |
| | | e | 04 | 16.00 | | | PMR | 85.18 | 29 | eP | 09 | 36.80 | -0.1 | | | | iSg | 15 | 29.50 | |
| | | e | 04 | 21.00 | | | | 1.0s | 62.50nm | | | 5.6mb | | BDV | 0.32 | 260 | iPgC | 15 | 29.00 | 0.3 |
| | | e | 06 | 32.00 | | | FBA | 85.98 | 25 | P | 09 | 41.30 | 0.4 | | | | iSg | 15 | 35.00 | |
| RKG | 37.37 | 193 | eP | 04 | 20.00 | 5.1X | TOA | 86.61 | 28 | eP | 09 | 45.10 | 1.0 | ULC | 0.37 | 181 | ePg | 15 | 30.00 | 0.3 |
| TIY | 37.49 | 341 | P | 04 | 14.40 | -1.6 | MMI | 89.74 | 302 | iP | 10 | 03.00 | 3.3X | | | | eSg | 15 | 37.00 | |
| | N | 30s | 13.70um | | | | JVI | 89.82 | 302 | iP | 09 | 55.70 | -4.3X | HCY | 0.57 | 281 | ePg | 15 | 32.80 | -0.8 |
| | | sP | 04 | 32.00 | | | RMN | 90.51 | 300 | iP | 10 | 05.20 | 1.9 | | | | eSg | 15 | 42.00 | |
| | | PP | 05 | 37.00 | | | SOD | 91.65 | 338 | eP | 10 | 09.00 | 1.3 | PVY | 0.59 | 64 | ePg | 15 | 33.50 | -0.6 |
| | | PcP | 06 | 32.00 | | | KJF | 91.74 | 334 | eP | 10 | 08.00 | -0.2 | | | | eSg | 15 | 41.40 | |
| | | S | 09 | 57.00 | | | | 0.8s | 13.20nm | | | 5.4mb | | | | | S.D. = 1.0 | | on 5 of 5 obs. | |
| | | sS | 10 | 13.00 | | | SUF | 92.69 | 333 | eP | 10 | 12.00 | -0.5 | | | | | | | |
| | | PcS | 10 | 27.00 | | | MBC | 93.28 | 13 | eP | 10 | 15.00 | -0.1 | | | | | | | |
| YAMJ | 37.69 | 17 | eP | 04 | 17.10 | -0.5 | NUR | 93.81 | 331 | eP | 10 | 21.00 | 3.3X | | | | | | | |
| CMS | 38.32 | 153 | eP | 04 | 22.00 | -1.0 | PTZ | 95.68 | 256 | iP | 10 | 28.40 | 1.0 | | | | | | | |
| BJI | 38.66 | 347 | P | 04 | 24.50 | -1.2 | MLR | 95.78 | 316 | ePd | 10 | 28.00 | 0.7 | | | | | | | |
| | 6.0s | 0.40nm | | | 2.5mb X | | BUL | 98.32 | 250 | iPc | 10 | 40.40 | 1.2 | | | | | | | |
| | Z | 24s | 3.20um | | 5.1MszX | | | 1.0s | 10.00nm | | | 5.3mb | | | | | | | | |
| | | eS | 10 | 08.00 | | | DAG | 98.58 | 352 | eP | 10 | 38.00 | -1.2 | | | | | | | |
| ADE | 38.85 | 164 | iPc | 04 | 28.30 | 0.9 | NB2 | 99.93 | 333 | P | 10 | 44.70 | -1.0 | RAB | 1.98 | 326 | iPd | 34 | 09.50 | 0.6 |
| | 0.8s | 104.48nm | | | 5.8mb | | | 1.0s | 5.60nm | | | 5.1mb | | | | | | | | |
| BRS | 38.89 | 141 | Pc | 04 | 26.00 | -1.8 | YKA | 100.77 | 24 | Pdiff | 10 | 50.20 | 1.0 | PAA | 2.24 | 102 | eP | 34 | 13.00 | 0.3 |
| | | i | 04 | 39.50 | | | KSP | 100.83 | 323 | ePdiff | 10 | 51.50 | 1.7 | LMG | 5.93 | 239 | e(P) | 35 | 04.00 | -1.0 |
| | | e | 05 | 56.00 | | | PRU | 102.16 | 322 | ePdiff | 10 | 58.00 | 2.2 | CTA | 15.72 | 205 | iPd | 37 | 21.30 | 3.6X |
| | | i | 08 | 34.00 | | | KHC | 103.03 | 322 | ePdiff | 11 | 02.20 | 2.5 | | 1.1s | 27.22nm | | | 4.3mb | |
| | | e(S) | 10 | 12.00 | | | LRM | 109.25 | 39 | ePKP | 15 | 33.30 | 1.7 | GUA | 20.98 | 337 | eP | 38 | 19.50 | -0.3 |
| | | e | 13 | 10.00 | | | BW06 | 112.44 | 41 | PKP | 15 | 38.80 | 1.1 | | 1.2s | 162.50nm | | | 5.3mb | |
| OFUJ | 39.02 | 19 | eP | 04 | 29.00 | 0.2 | GOL | 116.65 | 43 | PKP | 15 | 46.70 | 0.8 | RMO | 20.98 | 191 | eP | 38 | 19.00 | -0.8 |
| SNY | 39.36 | 356 | Pd | 04 | 32.50 | 1.0 | ALO | 118.02 | 48 | ePKP | 15 | 49.00 | 0.4 | GUMO | 21.04 | 337 | eP | 38 | 20.20 | -0.2 |
| | Z | 30s | 4.10um | | 5.1MszX | | FVM | 127.23 | 37 | PKP | 16 | 06.00 | 0.1 | | 1.0s | 92.00nm | | | 5.1mb | |
| | N | 32s | 3.90um | | | | ELC | 128.40 | 37 | PKP | 16 | 09.10 | 1.0 | PJG | 21.04 | 337 | eP | 38 | 20.50 | 0.1 |
| | | S | 10 | 27.50 | | | PWLA | 130.63 | 38 | PKP | 16 | 12.60 | 0.2 | BRS | 21.43 | 181 | Pc | 38 | 23.20 | -1.2 |
| LZH | 39.60 | 331 | eP | 04 | 33.00 | -0.8 | GBTN | 132.44 | 34 | PKP | 16 | 17.00 | 1.1 | MTN | 22.92 | 251 | eP | 38 | 44.00 | 4.8X |
| | 1.5s | 110.00nm | | | 5.5mb | | TKL | 132.69 | 34 | PKP | 16 | 16.80 | 0.4 | WB5 | 23.08 | 231 | eP | 38 | 42.90 | 2.1 |
| HHC | 40.63 | 342 | eP | 04 | 42.00 | -0.1 | TACH | 144.83 | 154 | ePKP | 16 | 40.00 | 1.5 | WB2 | 23.13 | 231 | eP | 38 | 42.90 | 1.7 |
| COO | 40.69 | 146 | eP | 04 | 42.00 | -0.7 | PCH | 145.04 | 155 | ePKP | 16 | 39.00 | 0.0 | ASPA | 25.73 | 225 | iPc | 39 | 05.10 | -1.0 |
| BTO | 40.89 | 341</ | | | | | | | | | | | | | | | | | | |

11d 02h

CN2 55.44 336 P 43 10.00 -0.5
 TIY 57.64 322 Pd 43 25.70 -0.7
 CHG 58.87 296 eP 43 35.10 -0.1
 CD2 59.78 311 eP 43 41.10 -0.2
 LZH 62.31 316 eP 43 59.00 0.4
 GTA 66.75 317 P 44 27.00 -0.3
 GUN 73.07 301 P 45 06.50 0.1
 DMN 73.65 301 P 45 09.80 0.1
 GKN 74.15 301 P 45 12.50 0.0
 RTRS 125.60 134 iPd 49 07.80 -6.7X
 CFA 125.65 136 ePd 48 58.80 -16.0X
 ZOBO 133.51 119 PKP 52 54.00 0.8
 S.D. = 0.9 on 23 of 27 obs.

* FEB 11, 1989 02h 42m 13.45 ± 0.88s
 2.140 N ± 13.0km 126.859 E ± 12.5km
 DEPTH = 33.0km (normal)
 4.5mb (3 obs.)

MOLUCCA PASSAGE (266)

MNI 2.13 251 iPc 42 47.50 0.0
 eS 43 11.50
 MTN 15.48 164 eP 45 48.00 -3.1X
 WB5 23.09 162 eP 47 17.00 -0.5
 WRA 23.14 162 Pd 47 18.20 0.2
 0.4s 7.40nm 4.5mb
 WB2 23.15 162 eP 47 17.00 -1.0
 ASPA 26.55 165 iPd 47 50.20 -0.2
 0.9s 16.00nm 4.6mb
 WARB 28.16 180 eP 47 58.00 -6.9X
 BRS 38.54 141 iPc 49 34.00 -0.9
 BJI 38.95 347 eP 49 38.00 -0.1
 BWA 41.63 153 eP 50 01.90 1.5
 CAN 42.64 153 eP 50 09.50 0.9
 GBA 50.16 286 Pd 51 03.30 -4.9X
 0.7s 1.60nm 4.1mb
 S.D. = 0.9 on 9 of 12 obs.

FEB 11, 1989 02h 46m 12.10 ± 0.43s
 47.970 N ± 4.3km 16.986 E ± 4.0km
 DEPTH = 19.2 ± 5.3 km

AUSTRIA (546)
 ML 3.9 (KBA). Felt (VI) at
 Halbturm. Felt (IV) at
 Bratislava, Czechoslovakia. Also
 felt at Rusovce and Somorin,
 Czechoslovakia.

ZST 0.24 19 iPg 46 16.60 -1.2
 e(Sg) 46 22.00
 SOP 0.41 225 iPn 46 18.70 -1.8
 VKA 0.54 304 iPg 46 23.00 0.3
 i 46 30.20
 iSg 46 33.60
 SRO 0.91 99 iPg 46 28.60 -0.4
 0.4s 0.76nm

BUD 1.46 109 iPnd 46 39.00 1.5
 UZD 1.76 141 ePn 46 43.00 1.2
 KMR 1.92 274 iPg 46 46.80 2.6
 iSg 47 12.30
 PSZ 1.96 90 ePn 46 44.50 -0.3
 PTJ 2.19 199 iPnc 46 46.80 -1.3
 eSn 47 12.60
 ZAG 2.26 198 e(Pn) 46 47.20 -1.9
 iSg 47 18.00

SPC 2.48 59 iPnd 46 51.80 -0.6
 i(Pg) 46 53.90
 iSn 47 22.50
 i(Sg) 47 25.00
 KHC 2.54 298 iPn 46 54.40 1.2
 Pg 46 58.30
 Sn 47 20.50
 Sg 47 32.40

LJU 2.56 222 ePnc 46 53.50 0.2
 1.0s 230.00nm
 ePg 47 00.00
 e(Sn) 47 22.50
 e(Sg) 47 35.80

PRU 2.58 322 Pn 46 53.50 -0.2
 Pg 47 00.00
 Sn 47 25.50
 Sg 47 34.00

KBA 2.62 251 e(Pn) 46 54.00 -0.4
 0.4s 45.50nm
 iPg 46 58.00
 i 47 03.30

i(Sn) 47 21.70
 i 47 29.30
 iSg 47 31.80
 VBY 2.74 206 iPn 47 02.70 6.8X
 iPb 47 08.20
 i 47 33.80
 iSn 47 38.80
 iSb 47 41.80

RBL 2.79 238 P 46 58.20 1.6
 CEY 2.84 219 ePn 46 58.40 1.1
 1.0s 45.00nm
 KRA 2.85 42 eP 47 05.50 8.0X
 0.7s 30.00nm

e 47 09.10
 eS 47 34.60
 i 47 37.40
 VOY 2.87 229 ePn 46 59.10 1.3
 ePb 47 04.80
 e(Sg) 47 45.80
 e 47 53.80

KSP 2.91 351 iPd 46 58.70 0.4
 0.8s 82.00nm
 i 47 06.30
 iSn 47 32.00

i 47 46.90
 TRI 3.16 226 P 47 05.20 3.3X
 FVI 3.18 246 P 47 01.20 -0.9
 BRG 3.52 327 ePn 47 07.00 0.1
 iPg 47 18.00

eSn 47 47.00
 iSg 48 02.00
 FUR 3.83 275 ePn 47 12.40 1.0
 BZS 3.96 125 ePc 47 13.50 0.4
 CTI 4.13 244 P 47 15.10 -0.5
 GRF 4.18 296 ePn 47 16.20 -0.1
 CLL 4.23 324 e(Pn) 47 17.00 0.0

ePg 47 30.00
 iSg 48 24.80
 MOX 4.42 309 ePn 47 20.00 0.3
 ePg 47 25.00
 iSg 48 34.00

HVAR 4.81 185 iPn 47 24.70 -0.5
 iSn 48 18.70
 TNS 6.04 295 ePnc 47 41.90 -0.8
 eSn 49 25.60
 TIR 6.93 162 eP 47 05.20 -50.0X
 e(Sg) 47 37.60

WLF 7.35 287 P 47 59.70 -1.3
 DOU 8.42 289 Pc 48 14.30 -1.6
 S 49 49.80
 S.D. = 1.2 on 31 of 35 obs.

* FEB 11, 1989 02h 50m 04.20 ± 1.00s
 39.736 N ± 9.5km 26.311 E ± 9.2km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

EZN 0.09 7 iPg 50 07.20 0.4
 EDC 1.34 62 iPn 50 29.50 0.6
 IZM 1.53 151 ePn 50 31.20 -0.4
 DST 1.79 93 iPn 50 35.80 0.3
 KDZ 2.03 341 iP 50 37.00 -1.8
 RZN 2.30 329 eP 50 44.00 1.1
 DMK 2.35 27 iPn 50 42.60 -0.9
 MMB 2.70 314 eP 50 49.00 0.5
 JMB 2.74 4 eP 50 55.00 6.1X

S.D. = 1.1 on 8 of 9 obs.

% FEB 11, 1989 03h 43m 18.45 ± 0.92s
 39.046 N ± 8.3km 28.639 E ± 9.2km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

DST 0.56 359 iPg 43 27.90 -1.9
 eSg 43 35.90
 KHL 1.00 136 iPg 43 36.90 -0.6
 iSg 43 48.40
 IZM 1.26 239 ePn 43 42.30 0.5
 EDC 1.43 335 iPn 43 43.50 -0.9
 GPA 1.79 46 ePn 43 49.00 -0.6
 HRT 1.94 24 ePn 43 53.60 1.8
 EZN 1.95 294 ePn 43 52.00 0.0
 ISK 2.04 9 ePn 43 55.00 1.8

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

FEB 11, 1989 04h 05m 20.78 ± 0.21s
 2.442 N ± 3.8km 126.685 E ± 6.1km

DEPTH = 33.0km (normal)
 5.2mb (16 obs.) 4.1MsZ (1 obs.)

MOLUCCA PASSAGE (266)

CENTROID, MOMENT TENSOR (HRV)

Date Used: GDSN

L.P.B.: 11S, 23C

Centroid Location:

Origin Time 04:05:23.4 1.3

Lat 2.05N 0.13 Lon 126.24E 0.13

Dep 15.0 FIX Half-duration 1.7

Moment Tensor: Scale 10**17 Nm

Mrr=0.22 0.11 Mtt=0.03 0.08

Mff=-0.25 0.16 Mrt=-0.13 0.18

Mrf=-2.40 0.21 Mtf=0.70 0.08

Principal Axes:

T Val= 2.53 Plg=45 Azm=108

N -0.03 16 1

P -2.50 40 257

Best Double Couple: Mo=2.5*10**17

NP1: Strike=280 Dip=17 Slip= 9

NP2: 182 88 106

MNI 2.09 242 iPc 06 00.50 6.3X

eS 06 32.00

DAV 4.75 347 eP 06 34.00 2.1

AAI 6.27 166 eP 06 59.00 5.5X

TSM 8.78 282 ePc 07 34.00 5.6X

QCP 13.32 336 eP 08 34.00 3.9X

MTN 15.82 164 eP 09 02.60 -0.2

e 09 08.00

KNA 18.19 174 eP 09 31.50 -1.1

GUMO 21.11 57 eP 10 20.30 15.2X

0.8s 76.13nm

PJG 21.11 57 eP 10 02.50 -2.6

GUA 21.13 58 eP 10 02.80 -2.5

0.8s 41.79nm 4.9mb

QIZ 23.31 316 eP 10 26.60 -0.3

WB5 23.43 162 eP 10 27.10 -1.0

eS 14 40.00

WRA 23.48 162 Pd 10 27.30 -1.3

0.5s 31.50nm 5.1mb

WB2 23.49 162 eP 10 27.10 -1.5

eS 14 40.00

QZH 23.69 341 eP 10 30.10 -0.4

Z 28s 3.00um 4.6MsZ

N 28s 3.00um

GZH 24.26 329 eP 10 35.00 -1.0

MBL 24.40 196 eP 10 39.00 1.6

0.6s 14.00nm 4.7mb

IPM 25.70 275 ePd 10 50.70 0.8

1.1s 35.90nm 4.9mb

QIS 26.13 152 iPc 10 52.40 -1.4

ASPA 26.89 165 iPd 10 59.50 -1.3

NANU 27.13 203 eP 11 03.00 0.0

PSI 27.73 271 ePd 11 08.50 0.0

WARB 28.46 180 eP 11 08.80 -6.1X

LOE 28.66 303 eP 11 16.50 -0.4

SSE 28.97 350 eP 11 14.50 -5.0X

Z 20s 0.50um 4.1MsZ

E 12s 0.40um

e 11 54.00

eS 16 16.00

esS 16 42.00

eSS 17 54.00

NST 29.28 298 eP 11 12.00 -10.4X

CTA 29.50 140 iPd 11 23.60 -0.8

1.2s 28.13nm 4.9mb

MEKA 29.94 195 eP 11 28.70 0.4

WHN 30.29 339 eP 11 32.20 0.9

GYA 30.65 323 P 11 38.00 3.3X

BDT 30.91 300 eP 11 36.20 -0.7

0.6s 34.30nm 5.3mb

CHG 31.66 303 iPd 11 42.90 -0.7

1.0s 28.00nm 5.1mb

MRWA 33.11 197 eP 11 58.00 2.0

FORR 33.13 178 eP 11 54.00 -2.1

COOL 33.56 189 eP 12 00.00 0.1

BAL 34.21 195 eP 12 06.00 0.4

TIA 34.75 346 eP 12 10.40 0.3

KLB 34.89 193 eP 12 11.00 -0.4

XAN 35.54 334 P 12 14.70 -2.3

MAT 35.56 16 eP 12 16.00 -1.1

1.1s 67.09nm 5.5mb

eS 17 50.00

MUN 35.65 195 eP 12 18.00 0.2

CD2 35.66 325 eP 12 17.00 -1.0

RMO 35.80 145 iPc 12 18.60 -0.6

NWAO 36.30 193 eP 12 24.00 0.7
 STK 36.95 159 eP 12 28.00 -0.8
 RKG 37.44 193 eP 12 38.50 5.6X
 TIY 37.46 341 eP 12 32.00 -1.1
 N 21s 1.40um
 CMS 38.34 153 eP 12 40.00 -0.5
 BJI 38.62 347 P 12 43.00 0.3
 Z 27s 0.70um 4.3mszX
 BRS 38.88 141 iPc 12 44.00 -1.1
 i 12 50.50
 ADE 38.89 164 eP 12 46.40 1.3
 SNY 39.31 356 P 12 49.00 0.6
 N 31s 0.90um
 eS 18 48.00
 LZH 39.59 330 eP 12 50.00 -1.0
 1.5s 66.00nm 5.2mb
 Z 24s 2.00um 4.9mszX
 HHC 40.60 342 eP 12 59.00 -0.3
 COO 40.70 146 eP 13 00.00 -0.1
 CN2 41.20 359 P 13 04.00 0.1
 BWA 41.98 153 eP 13 11.30 0.7
 e 14 52.70
 MDJ 42.08 3 eP 13 11.20 0.1
 CAN 42.99 153 eP 13 18.70 -0.1
 LSA 43.26 312 P 13 22.00 0.4
 GTA 44.18 330 eP 13 27.50 -1.0
 Z 24s 1.70um 4.9mszX
 E 20s 1.50um
 PP 15 14.00
 GUN 46.45 307 P 13 46.40 -0.7
 PKI 46.68 306 P 13 48.10 -0.8
 KKN 46.88 307 P 13 49.20 -1.1
 0.6s 29.00nm 5.4mb
 DMN 46.94 306 P 13 50.70 -0.1
 1.0s 52.00nm 5.5mb
 GKN 47.48 307 P 13 54.20 -0.8
 HYB 49.52 291 iPc 14 10.00 -0.7
 1.2s 71.40nm 5.6mb
 GBA 49.91 286 Pd 14 10.70 -3.0X
 0.6s 14.70nm 5.2mb
 WMO 53.75 326 P 14 41.50 -0.7
 Z 26s 1.10um 4.8mszX
 NDI 53.79 304 eP 14 40.60 -2.1
 POO 54.12 291 eP 14 43.50 -1.8
 MHI 70.25 308 eP 16 33.00 -0.1
 SDN 78.27 34 eP 17 19.00 0.2
 AVY 80.35 250 iPc 17 32.72 1.6
 TAB 80.91 308 eP 17 35.00 1.3
 TTA 82.06 27 eP 17 40.50 1.4
 KDC 83.04 32 eP 17 45.20 1.1
 BRW 83.40 18 eP 17 47.80 2.1
 IMA 83.57 24 eP 17 48.40 1.5
 0.9s 27.10nm 5.4mb
 PMR 85.09 29 eP 17 54.70 0.3
 1.2s 54.70nm 5.6mb
 PRNI 90.24 300 e(P) 18 21.00 1.0
 NOH 90.25 301 eP 18 21.00 1.0
 MBH 90.37 300 iPc 18 21.50 1.0
 INK 91.37 21 eP 18 24.00 -0.3
 KJF 91.73 334 eP 18 25.00 -1.0
 SUF 92.67 333 iP 18 29.80 -0.6
 MBC 93.21 13 eP 18 33.00 0.3
 NB2 99.91 334 P 19 02.10 -1.4
 0.8s 2.50nm 4.8mb
 YKA 100.68 24 Pd diff 19 08.70 1.9
 GOL 116.55 43 PKP 24 04.70 0.9
 ALO 117.92 48 ePKP 24 07.00 0.5
 FVM 127.13 37 PKP 24 24.00 0.2
 ELC 128.31 37 PKP 24 26.80 0.8
 PWLA 130.54 38 PKP 24 30.80 0.4
 TKL 132.59 34 PKP 24 35.20 0.9
 NAV 132.93 30 PKP 24 36.20 1.3
 LHS 135.10 33 PKP 24 40.50 1.5
 PEL 145.39 154 iPKPc 24 58.50 0.9
 MDZ 146.39 156 ePKP 25 01.50 2.1
 CNCB 159.71 136 PKP 25 21.00 2.1
 LPB 159.81 135 ePKP 25 21.00 2.1
 ZOBO 159.97 134 PKP 25 21.00 1.8
 S.D. = 1.2 on 91 of 102 obs.
 FEB 11, 1989 04h 48m 12.18 ± 0.72s
 44.223 N ± 3.7km 6.405 E ± 6.7km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.6 (GEN), 2.6 (LDG).
 PZZ 0.57 60 P 48 23.72 -0.2

STV 0.66 88 P 48 31.28
 S 48 25.20 -0.2
 S 48 33.56
 FRF 0.68 165 Pg 48 25.80 0.1
 Sg 48 35.80
 RRL 0.75 21 P 48 26.58 -0.4
 S 48 35.99
 LRG 0.77 182 Pg 48 26.90 -0.3
 Sg 48 39.00
 SBF 0.83 115 Pg 48 29.20 1.0
 Sg 48 42.80
 LMR 0.89 175 Pg 48 29.20 -0.1
 Sg 48 42.60
 ROB 1.06 86 P 48 32.22 0.1
 S 48 45.57
 RSP 1.11 33 P 48 33.15 0.1
 S 48 47.58
 IMI 1.11 106 P 48 33.13 0.0
 S 48 47.32
 FIN 1.30 90 P 48 35.60 -0.6
 LPG 1.30 11 Pg 48 37.00 0.6
 S.D. = 0.5 on 12 of 12 obs.
 & FEB 11, 1989 08h 06m 36.33s
 59.962 N 153.618 W
 DEPTH = 149.5km
 SOUTHERN ALASKA (2)
 <AGS-P>.
 PDB 0.34 239 iP 06 56.18 0.6
 ILIM 0.35 70 iP 06 56.46 0.8
 iS 07 12.76
 AUL 0.59 171 eP 06 57.71 -0.6
 eS 07 15.87
 RDT 0.86 44 iP 06 59.57 -0.7
 CDD 1.04 181 eP 07 00.51 -1.2
 eS 07 19.61
 HOM 1.04 106 eP 07 00.61 -1.1
 eS 07 20.71
 >NNL 1.17 85 eP 07 02.82 0.0
 CNPM 1.28 109 iP 07 03.05 -0.9
 BRK 1.39 97 eP 07 04.19 -0.9
 eS 07 25.19
 NKA 1.42 55 iP 07 06.06 0.8
 SPU 1.45 32 iP 07 04.88 -0.8
 CRP 1.49 28 eP 07 05.62 -0.7
 SVW 1.52 320 iP 07 05.25 -1.2
 SLKM 1.78 71 eP 07 07.77 -1.5
 eS 07 32.42
 SEW 2.10 84 eP 07 11.39 -1.5
 KDC 2.30 165 iP 07 12.47 -2.8
 iS 07 41.08
 PMS 2.38 56 eP 07 14.36 -2.1
 PTE 2.45 66 eP 07 14.93 -2.3
 PWA 2.50 46 eP 07 15.69 -2.1
 PLRM 2.74 51 eP 07 18.14 -2.7
 PLW 2.77 69 eP 07 18.69 -2.6
 PME 2.80 51 eP 07 19.17 -2.5
 GHO 2.93 50 eP 07 20.53 -2.8
 KNK 2.93 58 eP 07 20.51 -2.8
 SML 3.18 52 iP 07 23.60 -2.9
 TTA 3.19 340 iP 07 24.90 -1.9
 HIN 3.58 80 eP 07 29.21 -2.6
 VZW 3.66 69 eP 07 30.04 -2.8
 VLZ 3.79 69 eP 07 32.26 -2.1
 CVA 3.97 78 iP 07 34.72 -2.0
 KLU 4.08 65 eP 07 35.67 -2.7
 TOA 4.21 56 eP 07 37.72 -2.4
 SGAM 4.23 79 iP 07 38.19 -2.1
 RAGM 4.49 81 eP 07 41.45 -2.3
 PAX 4.94 49 eP 07 47.22 -2.6
 GLB 5.04 69 eP 07 48.88 -2.3
 FBA 5.64 26 eP 07 56.31 -2.8
 CTGM 6.16 75 eP 08 04.58 -1.6
 INK 12.06 38 eP 09 21.50 -2.6
 39 obs. associated
 FEB 11, 1989 08h 13m 48.10 ± 1.00s
 45.728 N ± 11.3km 7.789 E ± 4.3km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.9 (GEN).
 ORX 0.17 125 P 13 52.05 0.1
 S 13 54.72
 ORO 0.17 127 P 13 52.10 0.1
 eSg 13 53.50

LSD 0.52 239 P 13 58.72 0.0
 S 14 05.59
 RSP 0.69 213 P 14 01.48 -0.3
 S 14 11.02
 VAI 0.70 78 P 14 01.80 -0.1
 eSg 14 11.10
 LPG 0.76 253 Pg 14 03.30 0.1
 Sg 14 13.20
 BNI 1.04 230 P 14 08.00 0.3
 eSg 14 21.60
 RRL 1.07 222 P 14 08.40 -0.1
 S 14 21.94
 S.D. = 0.2 on 8 of 8 obs.
 * FEB 11, 1989 10h 01m 42.60 ± 0.53s
 6.043 S ± 10.7km 103.290 E ± 12.0km
 DEPTH = 33.0km (normol)
 4.9mb (7 obs.)
 SOUTHWEST OF SUMATERA (273)
 KLI 1.95 53 iPc 02 15.50 1.5
 eS 02 41.00
 eSn 21 05.50
 NANU 20.23 145 eP 06 18.00 0.2
 eS 09 48.00
 MBL 21.97 135 eP 06 36.00 0.5
 0.4s 4.00nm 4.2mb
 eS 10 28.00
 KNA 26.78 113 eP 07 19.00 -2.6
 WARB 29.97 135 eP 07 42.50 -7.9X
 GBA 32.25 307 P 08 24.00 13.5X
 0.7s 3.80nm
 WRA 33.18 118 Pd 08 17.50 -1.1
 0.5s 4.60nm 4.6mb
 WB5 33.18 117 iPd 08 17.80 -0.8
 WB2 33.19 118 iPd 08 17.80 -0.9
 ASPA 34.26 124 iPd 08 27.60 -0.3
 0.4s 15.00nm 5.3mb
 GUN 37.71 334 P 08 57.40 0.0
 0.5s 17.00nm 5.2mb
 KKN 37.87 333 P 08 58.40 -0.2
 0.4s 6.00nm 4.8mb
 GKN 38.34 333 P 09 02.40 -0.1
 0.4s 6.00nm 4.8mb
 ADE 43.51 136 iPd 09 47.10 2.2
 PMG 43.57 97 eP 09 45.00 -0.6
 CTA 43.97 113 iPc 09 48.90 0.2
 STK 44.03 131 iP 09 50.00 0.9
 BWA 50.29 130 iPd 10 40.10 1.8
 CAN 51.09 131 iPd 10 44.90 0.6
 BRS 51.51 120 iPc 10 47.50 -0.1
 MAT 53.51 35 (P) 10 47.00 -15.3X
 1.2s 17.19nm
 KJF 89.18 335 iP 14 36.40 0.4
 0.5s 8.40nm 5.3mb
 SUF 89.47 333 iP 14 37.90 0.5
 NUR 89.65 331 iP 14 38.60 0.4
 SIO 145.38 29 ePKP 21 18.60 -0.7
 LNO 145.49 28 ePKP 21 18.30 -1.0
 TUL 145.49 28 ePKP 21 18.70 -0.8
 0.6s 10.40nm
 S.D. = 1.1 on 24 of 27 obs.
 * FEB 11, 1989 10h 28m 21.42 ± 1.92s
 39.901 N ± 12.8km 25.700 E ± 16.7km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)
 EZN 0.49 99 iPg 28 31.00 -0.3
 EDC 1.72 74 iPn 28 52.50 1.0
 IZM 1.93 141 ePn 28 54.90 0.2
 DST 2.28 97 iPn 28 59.00 -0.7
 DMK 2.47 38 iPn 29 06.30 3.9X
 MLR 5.59 2 ePc 29 46.50 -0.2
 S.D. = 0.9 on 5 of 6 obs.
 % FEB 11, 1989 10h 36m 35.92 ± 2.81s
 39.679 N ± 10.7km 25.936 E ± 25.0km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)
 EZN 0.33 64 iPg 36 42.60 -0.2
 EDC 1.62 65 iPn 37 05.50 0.8
 IZM 1.64 141 ePn 37 05.00 0.0
 DST 2.08 91 ePn 37 11.00 -0.3
 DMK 2.55 32 iPn 37 17.70 -0.3
 S.D. = 0.7 on 5 of 5 obs.

FEB 11, 1989 11h 32m 52.32±0.30s
 44.286 N ± 1.7km 6.786 E ± 3.0km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.9 (GEN), 2.8 (LDG).

| | | | | | | |
|------|------|-----|-----|----|-------|------|
| FOUF | 0.24 | 359 | P | 32 | 57.41 | -0.1 |
| | | | Sg | 33 | 00.55 | |
| PZZ | 0.31 | 46 | Pc | 32 | 59.05 | 0.1 |
| | | | S | 33 | 03.61 | |
| STV | 0.39 | 96 | Pc | 33 | 00.39 | 0.1 |
| | | | S | 33 | 05.45 | |
| DOI | 0.39 | 56 | P | 33 | 00.40 | 0.0 |
| | | | eSg | 33 | 05.90 | |
| TOUF | 0.43 | 129 | Pg | 33 | 01.10 | -0.1 |
| MVIF | 0.47 | 146 | Pg | 33 | 01.95 | 0.0 |
| | | | Sg | 33 | 09.04 | |
| CALN | 0.54 | 172 | Pg | 33 | 03.41 | 0.1 |
| AUTN | 0.55 | 122 | Pg | 33 | 03.24 | -0.2 |
| | | | Sg | 33 | 11.18 | |
| AURF | 0.56 | 135 | Pg | 33 | 03.71 | 0.0 |
| SBF | 0.63 | 132 | Pg | 33 | 04.80 | -0.2 |
| | | | Sg | 33 | 13.50 | |
| RRL | 0.63 | 360 | Pc | 33 | 04.72 | -0.5 |
| | | | S | 33 | 13.65 | |
| REVF | 0.69 | 142 | Pg | 33 | 06.46 | 0.5 |
| FRF | 0.73 | 188 | Pg | 33 | 06.50 | -0.2 |
| | | | Sg | 33 | 18.40 | |
| BNI | 0.77 | 354 | P | 33 | 07.50 | 0.1 |
| | | | eSg | 33 | 17.40 | |
| ROB | 0.78 | 89 | P | 33 | 07.80 | 0.3 |
| | | | S | 33 | 17.55 | |
| IMI | 0.88 | 115 | P | 33 | 09.33 | 0.1 |
| | | | S | 33 | 21.34 | |
| LRG | 0.89 | 200 | Pn | 33 | 09.40 | 0.1 |
| | | | Pg | 33 | 10.20 | |
| | | | Sg | 33 | 23.60 | |
| RSP | 0.93 | 21 | P | 33 | 10.25 | 0.1 |
| | | | S | 33 | 22.06 | |
| LMR | 0.97 | 192 | Pn | 33 | 11.20 | 0.4 |
| | | | Pg | 33 | 12.40 | |
| | | | Sg | 33 | 25.60 | |
| FIN | 1.02 | 94 | P | 33 | 11.92 | 0.2 |
| | | | S | 33 | 25.34 | |
| LPG | 1.21 | 359 | Pg | 33 | 15.30 | 0.2 |
| | | | Sg | 33 | 31.20 | |
| LPL | 1.23 | 358 | Pg | 33 | 15.40 | 0.0 |
| CVF | 2.29 | 138 | Pn | 33 | 29.80 | -1.0 |
| | | | Sn | 33 | 56.40 | |

S.D. = 0.3 on 23 of 23 obs.

* FEB 11, 1989 11h 56m 20.19±0.55s
 4.835 N ± 8.9km 95.420 E ± 10.5km
 DEPTH = 33.0km (normal)
 4.7mb (3 obs.)
 NORTHERN SUMATERA (706)

| | | | | | | |
|-----|-------|-----|---------|----|-------|---------|
| TSI | 3.40 | 113 | eP | 57 | 11.80 | -0.5 |
| | | | eS | 58 | 08.00 | |
| PSI | 4.09 | 121 | iP | 57 | 27.00 | 5.0X |
| IPM | 5.59 | 92 | ePc | 57 | 47.30 | 4.0X |
| | 0.4s | | 57.40nm | | | 5.5mb X |
| | | | e | 58 | 50.90 | |
| SNG | 5.67 | 66 | ePn | 57 | 49.70 | 5.4X |
| | | | ePg | 58 | 03.10 | |
| PPI | 7.24 | 136 | eP | 58 | 08.50 | 2.1 |
| NNT | 8.81 | 29 | eP | 58 | 23.30 | -4.9X |
| NST | 11.72 | 23 | eP | 59 | 15.00 | 6.8X |
| CHG | 14.31 | 14 | iPd | 59 | 50.30 | 7.7X |
| | 1.1s | | 28.16nm | | | 4.8mb X |
| GBA | 19.76 | 297 | Pc | 00 | 51.30 | 0.8 |
| | 0.8s | | 3.60nm | | | 3.7mb |
| HYB | 20.71 | 308 | eP | 01 | 01.00 | 0.5 |
| GYA | 24.04 | 25 | P | 01 | 35.20 | 1.7 |
| PKI | 24.54 | 338 | P | 01 | 30.20 | -8.4X |
| GUN | 24.68 | 339 | P | 01 | 31.40 | -8.5X |
| DMN | 24.69 | 338 | P | 01 | 28.60 | -11.3X |
| KKN | 24.79 | 338 | P | 01 | 27.50 | -13.3X |
| | 0.4s | | 4.00nm | | | |
| CD2 | 27.10 | 16 | eP | 02 | 01.50 | -0.6 |
| XAN | 31.65 | 22 | iPc | 02 | 41.80 | -0.9 |
| GTA | 34.65 | 6 | P | 03 | 08.00 | -0.8 |
| HHC | 38.68 | 20 | Pd | 03 | 44.10 | 1.4 |
| WMQ | 39.42 | 351 | P | 03 | 49.00 | 0.1 |
| BJI | 39.73 | 25 | P | 03 | 53.00 | 1.6 |
| WB5 | 45.49 | 124 | eP | 04 | 38.00 | -0.5 |

| | | | | | | |
|------|-------|-----|---------|----|-------|---------|
| WRA | 45.50 | 124 | Pd | 04 | 38.30 | -0.3 |
| | 1.1s | | 30.00nm | | | 5.1mb |
| WB2 | 45.51 | 124 | eP | 04 | 38.00 | -0.7 |
| CN2 | 46.97 | 30 | P | 04 | 49.40 | -0.4 |
| ASPA | 47.01 | 129 | iPd | 04 | 50.30 | -0.3 |
| | 0.4s | | 37.00nm | | | 5.7mb X |
| FORR | 47.26 | 141 | eP | 04 | 53.00 | 0.7 |
| QIS | 50.18 | 122 | eP | 05 | 14.00 | -1.1 |
| VRI | 71.77 | 317 | ePc | 07 | 41.00 | -0.4 |
| ZST | 78.63 | 318 | eP | 08 | 35.40 | 15.0X |
| | | | e | 09 | 49.00 | |
| | | | e | 10 | 03.80 | |
| HFS | 81.71 | 330 | eP | 08 | 35.60 | -0.9 |
| | 0.4s | | 3.80nm | | | 4.8mb |
| MBC | 96.58 | 8 | eP | 09 | 46.00 | -1.5 |

S.D. = 1.1 on 21 of 32 obs.

FEB 11, 1989 12h 49m 40.38±0.63s
 7.931 N ± 8.4km 72.214 W ± 8.8km
 DEPTH = 33.0km (normal)
 4.4mb (1 obs.)
 NORTHERN COLOMBIA (99)

| | | | | | | |
|------|--------|-----|----------|----|-------|-------|
| SDV | 1.83 | 59 | iPnd | 50 | 11.30 | 1.1 |
| | 0.3s | | 265.00nm | | | |
| | | | iSn | 50 | 35.80 | |
| TOV | 3.02 | 52 | iPnc | 50 | 28.20 | 1.1 |
| | 0.8s | | 160.00nm | | | |
| | | | iSn | 51 | 07.70 | |
| CEOS | 3.99 | 74 | eP | 50 | 39.60 | -1.3 |
| | | | eS | 51 | 25.50 | |
| MORO | 4.83 | 52 | eP | 50 | 53.50 | 0.7 |
| GUAC | 5.37 | 65 | eP | 51 | 01.10 | 0.6 |
| | | | eS | 52 | 03.00 | |
| OLLA | 5.73 | 68 | eP | 51 | 04.40 | -1.2 |
| | | | eS | 52 | 07.50 | |
| LLAV | 5.91 | 64 | eP | 51 | 07.00 | -1.0 |
| | | | eS | 52 | 14.90 | |
| ZOBO | 24.38 | 170 | P | 54 | 57.00 | -0.6 |
| LPB | 24.65 | 170 | P | 55 | 01.00 | 1.1 |
| CNCB | 24.94 | 170 | P | 55 | 03.00 | 0.1 |
| YKA | 62.54 | 339 | P | 00 | 02.70 | -0.4 |
| INK | 72.30 | 340 | eP | 01 | 04.00 | -0.2 |
| MBC | 72.88 | 349 | eP | 01 | 07.00 | -0.6 |
| NB2 | 79.93 | 29 | P | 01 | 48.00 | 0.6 |
| | 0.7s | | 3.00nm | | | 4.4mb |
| WRA | 151.65 | 242 | PKPd | 09 | 32.60 | 5.3X |
| | 0.5s | | 3.80nm | | | |

S.D. = 0.9 on 14 of 15 obs.

* FEB 11, 1989 12h 59m 48.59±0.53s
 36.598 N ± 11.4km 71.263 E ± 9.6km
 DEPTH = 33.0km (normal)
 4.1mb (5 obs.)
 AFGHANISTAN-USSR BORDER REGION (717)

| | | | | | | |
|-----|-------|-----|--------|----|-------|---------|
| NDI | 9.35 | 146 | eP | 02 | 06.20 | 2.1 |
| | | | eS | 03 | 40.50 | |
| MHI | 9.49 | 272 | eP | 02 | 06.00 | -0.1 |
| GKN | 14.18 | 123 | P | 03 | 08.60 | -0.7 |
| | 0.4s | | 5.00nm | | | 4.5mb |
| DMN | 14.75 | 123 | P | 03 | 16.80 | 0.0 |
| | 0.4s | | 7.00nm | | | 4.4mb X |
| KKN | 14.75 | 123 | P | 03 | 16.20 | -0.6 |
| PKI | 14.98 | 123 | P | 03 | 19.60 | -0.3 |
| | 0.4s | | 5.00nm | | | 4.2mb |
| GUN | 15.08 | 121 | P | 03 | 21.10 | -0.2 |
| | 0.4s | | 4.00nm | | | 4.1mb |
| GBA | 23.56 | 165 | P | 04 | 56.00 | -0.9 |
| HFS | 43.12 | 322 | eP | 07 | 46.50 | -0.6 |
| | 0.4s | | 1.50nm | | | 4.1mb |
| NB2 | 44.43 | 323 | P | 07 | 57.70 | -0.1 |
| | 0.7s | | 1.80nm | | | 4.0mb |
| MBC | 67.23 | 3 | eP | 10 | 42.00 | 0.8 |
| YKA | 81.14 | 3 | P | 12 | 02.10 | 0.5 |

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

* FEB 11, 1989 13h 26m 07.37±0.85s
 36.371 N ± 8.3km 139.959 E ± 8.3km
 DEPTH = 33.0km (normal)
 HONSHU, JAPAN (227)

| | | | | | | |
|------|------|-----|-----|----|-------|------|
| KAKJ | 0.24 | 134 | iP+ | 26 | 14.40 | 0.0 |
| | | | S | 26 | 20.50 | |
| CHJJ | 0.84 | 248 | P | 26 | 22.10 | -0.7 |
| | | | S | 26 | 34.40 | |
| NIJJ | 1.16 | 319 | P | 26 | 27.60 | 0.3 |

| | | | | | | |
|------|------|-----|-----|----|-------|------|
| MAT | 1.42 | 277 | iPd | 26 | 31.00 | -0.1 |
| | | | iS | 26 | 45.10 | |
| MTMJ | 1.75 | 278 | P | 26 | 36.00 | 0.0 |
| YAMJ | 1.80 | 2 | eP | 26 | 36.40 | -0.2 |
| IIDJ | 1.88 | 242 | P | 26 | 38.50 | 0.6 |
| | | | S | 27 | 01.80 | |

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

& FEB 11, 1989 14h 53m 17.17s
 58.164 N 151.378 W
 DEPTH = 78.7km
 KODIAK ISLAND REGION (13)
 <AGS-P>.

| | | | | | | |
|------|------|-----|----|----|-------|------|
| KDC | 0.73 | 235 | iP | 53 | 32.48 | -0.7 |
| | | | iS | 53 | 42.00 | |
| CNPM | 1.37 | 3 | iP | 53 | 39.96 | -1.2 |
| CDD | 1.41 | 304 | eP | 53 | 40.55 | -1.2 |
| HOM | 1.51 | 355 | eP | 53 | 42.22 | -0.7 |
| AUL | 1.62 | 320 | eP | 53 | 44.08 | -0.4 |
| BRLK | 1.63 | 9 | eP | 53 | 43.30 | -1.2 |
| NNL | 1.88 | 1 | iP | 53 | 47.32 | -0.7 |
| | | | eS | 54 | 14.12 | |
| ILIM | 2.09 | 338 | iP | 53 | 49.54 | -1.3 |
| | | | iS | 54 | 18.79 | |
| SEW | 2.18 | 26 | iP | 53 | 50.59 | -1.5 |
| | | | iS | 54 | 14.00 | |
| PDB | 2.19 | 319 | iP | 53 | 50.83 | -1.3 |
| RED | 2.37 | 343 | eP | 53 | 53.10 | -1.7 |
| SLKM | 2.42 | 14 | eP | 53 | 53.90 | -1.6 |
| RDT | 2.47 | 348 | eP | 53 | 54.28 | -1.9 |
| NKA | 2.59 | 2 | eP | 53 | 57.86 | 0.2 |
| PTE | 2.96 | 23 | eP | 54 | 01.47 | -1.3 |
| SPU | 3.05 | 354 | eP | 54 | 02.20 | -1.9 |
| PWL | 3.12 | 29 | iP | 54 | 03.75 | -1.3 |
| | | | iS | 54 | 36.88 | |
| CRP | 3.14 | 353 | eP | 54 | 04.15 | -1.3 |
| PMS | 3.22 | 16 | eP | 54 | 04.96 | -1.6 |
| HIN | 3.36 | 46 | eP | 54 | 07.61 | -0.8 |
| | | | eS | 54 | 43.51 | |
| KNK | 3.58 | 23 | eP | 54 | 09.59 | -1.8 |
| PLRM | 3.62 | 17 | eP | 54 | 10.06 | -1.9 |
| SVW | 3.66 | 326 | eP | 54 | 10.60 | -1.9 |
| CVA | 3.74 | 48 | eP | 54 | 12.55 | -1.1 |
| VZW | 3.80 | 38 | iP | 54 | 13.12 | -1.4 |
| GHO | 3.82 | 18 | eP | 54 | 13.32 | -1.6 |
| VLZ | 3.93 | 39 | e | | | |

BDI 1.34 109 P 00 24.28 -0.2
 MVIF 1.37 243 Pn 00 10.73 0.1
 LPL 1.80 304 Pg 00 18.40 1.5
 FRF 1.85 240 Pg 00 20.20 2.7
 CVF 1.95 179 Pn 00 18.20 -0.8
 LMR 2.06 236 Pg 00 23.80 3.3X
 LRG 2.09 240 Pg 00 24.00 3.1X
 BGF 4.68 298 Pn 00 57.50 -0.3
 S.D. = 1.0 on 18 of 20 obs.

* FEB 11, 1989 15h 23m 07.06 \pm 0.63s
 7.262 S \pm 8.1km 128.490 E \pm 12.9km
 DEPTH = 76.4 \pm 6.4 km
 4.1mb (2 obs.)

BANDA SEA (280)

MTN 6.13 155 iPc 24 38.10 1.1
 KNA 8.44 178 iPd 25 08.40 -0.5
 WRA 13.83 156 Pd 26 17.60 -3.4X
 OIS 17.05 142 eP 27 02.00 0.0
 ASPA 17.12 163 iPc 27 03.00 0.1
 NANU 19.68 218 eP 27 33.00 0.2
 CTA 21.43 128 eP 27 57.00 6.3X
 FORR 23.47 181 eP 28 10.00 -0.5
 BWA 32.69 149 eP 29 34.20 0.0
 CAN 33.68 149 eP 29 42.20 -0.7
 GUN 54.01 312 P 32 26.20 0.0
 PKI 54.17 312 P 32 27.40 0.0
 KKN 54.38 312 P 32 29.00 0.2
 DMN 54.41 311 P 32 29.80 0.7
 GKN 54.97 312 P 32 32.60 -0.5
 YKA 108.64 26 PKP 41 27.70 -0.7
 CNCB 151.06 146 PKP 42 54.00 5.6X
 LPB 151.22 145 PKP 42 55.00 6.6X
 ZOBO 151.42 145 PKP 42 55.30 6.4X
 S.D. = 0.6 on 14 of 19 obs.

FEB 11, 1989 15h 44m 25.55 \pm 1.01s
 15.806 S \pm 5.5km 167.657 E \pm 6.2km
 DEPTH = 148.4 \pm 8.6 km
 5.6mb (22 obs.)

VANUATU ISLANDS (186)

CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 9S, 19C
 Centroid Location:
 Origin Time 15:44:38.1 2.6
 Lat 15.39S 0.25 Lon 167.28E 0.16
 Dep 154.2 4.6 Half-duration 1.6
 Moment Tensor: Scale 10 \times 16 Nm
 Mrr=-3.21 0.52 Mtt=7.24 0.98
 Mff=-4.04 0.95 Mrl=-3.32 0.68
 Mrf=-2.23 0.66 Mtf=3.67 0.99
 Principal Axes:
 T Vol= 9.49 Plg=17 Azm=162
 N -3.54 51 50
 P -5.95 34 264
 Best Double Couple: Mo=7.7 \times 10 \times 16
 NP1: Strike=298 Dip=53 Slip=-14
 NP2: 36 79 -142

PVC 2.02 162 iP 45 00.90 -0.3
 DZM 6.34 190 iPc 45 57.00 -0.9
 HNR 9.83 309 eP 46 47.00 2.5
 VSG 10.13 309 eP 46 52.00 3.6X
 BRS 17.99 228 iPd 48 28.50 0.9
 LMG 20.24 287 e(P) 48 52.00 0.7

RMO 20.56 236 iPd 48 55.80 1.5
 COO 1.2s 882.00nm 6.1mb
 CTA 20.61 222 iPd 48 56.20 1.5
 20.80 255 iPd 48 58.10 1.4
 0.9s 317.65nm 5.7mb
 KRP 23.11 164 eP 49 19.00 -0.1
 CMS 25.29 228 iPd 49 40.10 0.2
 BWA 25.36 219 iPd 49 38.90 -1.6
 CNB 25.41 217 iPd 49 41.70 0.7
 MNDI 25.41 290 eP 49 45.00 3.7X
 CAN 25.62 217 eP 49 42.80 -0.1
 OIS 27.05 256 iPd 49 55.70 -0.3
 0.4s 69.00nm 5.6mb
 STK 28.60 231 iPd 50 10.20 0.3
 0.6s 110.00nm 5.8mb
 TOO 29.22 218 iPc 50 15.60 0.2
 WB5 31.91 258 iPd 50 37.90 -1.3
 WB2 31.93 258 iPd 50 37.90 -1.4
 WRA 31.94 258 Pd 50 38.10 -1.3
 0.9s 85.40nm 5.6mb
 ADE 32.19 228 iPd 50 42.60 1.1
 0.7s 68.49nm 5.6mb
 ASPA 32.66 251 iPd 50 44.00 -1.7
 0.9s 360.00nm 6.1mb
 Z 22s 0.24um 3.8mszX
 iPcP 53 26.00
 ePcS 57 09.00
 eScS 00 53.70
 LR 01 48.20
 MTN 35.49 270 iPc 51 09.90 0.1
 GUA 36.82 321 eP 51 20.80 -0.2
 GUMO 36.89 321 eP 51 21.50 0.0
 PJG 36.89 321 eP 51 21.70 0.2
 KNA 37.39 265 iPd 51 25.40 -0.4
 0.3s 128.00nm 6.1mb
 FORR 39.06 240 eP 51 40.00 0.4
 WARB 39.51 248 iPd 51 36.70 -6.7X
 AAI 40.62 283 ePc 51 52.50 -0.1
 COOL 44.94 242 iPd 52 27.20 -0.3
 MBL 45.54 256 iPd 52 32.50 0.3
 0.5s 85.00nm 5.6mb
 MEKA 46.79 248 iPd 52 42.50 0.3
 0.4s 55.00nm 5.5mb
 KLB 47.91 242 iPd 52 50.00 -0.7
 NWA0 48.53 240 iPd 52 55.00 -0.5
 BAL 48.70 243 eP 52 56.00 -0.8
 RKG 48.88 238 iPc 52 58.80 0.6
 0.6s 91.00nm 5.7mb
 MRWA 49.20 245 eP 53 00.00 -0.7
 0.3s 3.00nm 4.5mb X
 MUN 49.27 241 eP 53 01.00 -0.2
 NANU 49.49 254 iPd 53 03.30 0.3
 0.4s 51.00nm 5.6mb
 PPR 54.71 294 ePc 53 43.00 1.1
 1.0s 97.00nm 5.6mb
 CHJJ 58.27 333 P 54 06.10 -0.6
 IIDJ 58.28 332 P 54 06.10 -0.8
 MAT 59.03 332 iPd 54 10.60 -1.4
 1.0s 65.00nm 5.5mb
 MTMJ 59.24 332 P 54 12.70 -0.9
 NIJJ 59.26 334 P 54 13.10 -0.5
 YAMJ 59.62 335 eP 54 16.60 0.5
 OFUJ 59.76 337 eP 54 17.20 0.2
 KLI 62.53 273 eP 54 33.70 -2.4
 0.4s 54 59.00
 QZH 62.67 389 eP 54 36.00 -0.7
 SSE 64.55 316 iPd 54 47.80 -1.1
 1.0s 59.00nm 5.5mb
 NJ2 66.70 316 Pc 55 02.30 -0.1
 WHN 68.94 312 P 55 16.50 -0.1
 IPM 68.95 281 ePd 55 16.20 -0.8
 1.1s 58.50nm 5.3mb
 DL2 69.38 323 P 55 19.10 0.0
 MDJ 69.40 332 Pd 55 19.20 0.1
 SNY 70.30 326 iPd 55 24.00 -0.7
 TIA 70.39 318 Pd 55 24.80 -0.5
 CN2 70.76 329 iPd 55 27.00 -0.4
 3.0s 0.20nm 2.4mb X
 pP 56 06.00 161kmX
 eS 04 32.00

GYA 72.63 305 P 55 38.80 -0.2
 LOE 72.88 294 iPd 55 40.00 -0.4
 BJI 73.33 321 iPd 55 43.00 0.4
 NST 73.63 292 iPd 55 41.00 -3.8X
 TIY 74.30 317 iPd 55 48.90 0.5
 1.0s 0.10nm 2.5mb X
 XAN 74.69 313 iPd 55 50.60 -0.1
 KMI 75.19 302 Pd 55 55.00 1.0
 CHG 75.86 294 iPd 55 58.00 -19.6X
 1.0s 39.75nm
 HHC 76.64 320 Pd 56 02.20 0.6
 CD2 76.96 308 eP 56 04.10 0.6
 BTO 77.47 319 eP 56 06.60 0.4
 TTA 83.45 16 P 56 35.30 -2.0
 GTA 83.68 314 iPd 56 40.30 1.3
 1.3s 0.10nm 2.5mb X
 PMR 84.39 19 P 56 40.70 -1.2
 FBA 87.26 17 P 56 53.70 -2.3
 0.8s 5.52nm 4.6mb X
 KVN 88.07 49 P 57 00.80 0.1
 GUN 90.24 299 P 57 11.40 0.0
 PKI 90.54 298 P 57 12.40 -0.2
 1.0s 60.00nm 5.6mb
 KKN 90.71 299 P 57 13.10 -0.2
 1.0s 48.00nm 5.6mb
 DMN 90.80 298 P 57 13.60 -0.2
 1.0s 89.00nm 5.8mb
 GKN 91.32 299 P 57 15.40 -0.6
 1.0s 36.00nm 5.5mb
 WMQ 93.74 314 iPd 57 26.90 0.2
 HYB 93.79 287 iP 57 27.00 -0.3
 GBA 93.83 283 Pd 57 27.40 -0.1
 0.8s 5.70nm 4.9mb
 YKA 98.33 27 P 57 47.30 0.4
 KEV 120.86 345 ePKP 03 17.00 16.1X
 KJF 124.46 340 ePKP 03 06.00 -2.0
 SUF 125.97 339 iPKP 03 10.10 -0.9
 0.6s 3.70nm
 BUL 126.19 230 iPKPd 03 11.00 -1.9
 1.0s 10.00nm
 PTZ 127.51 238 iPKPc 03 14.60 -0.9
 NUR 128.00 338 iPKP 03 14.70 -0.2
 KMZ 132.35 234 ePKPc 03 20.00 -4.7X
 PRU 139.55 333 ePKP 03 38.00 1.0
 KBA 142.23 331 ePKPc 03 35.50 -6.7X
 1.1s 11.40nm
 MEM 142.26 341 PKP 03 38.40 -3.4X
 FVI 142.85 331 PKPd 03 38.30 -4.6X
 SNF 142.87 342 PKP 03 40.50 -2.4
 WLF 143.03 340 PKP 03 39.80 -3.3X
 GWF 143.11 338 PKP 03 40.18 -3.2X
 DOU 143.15 342 PKPc 03 41.50 -1.9
 0.7s 8.90nm
 CDF 143.71 338 PKP 03 41.43 -3.1X
 CTI 143.78 331 PKPc 03 41.60 -3.1X
 FEL 143.88 331 PKP 03 41.67 -3.2X
 MOF 144.23 337 PKP 03 42.68 -2.7
 VITF 144.33 339 PKP 03 43.62 -1.8
 BSF 144.37 338 PKP 03 43.62 -2.1
 HAU 144.39 338 ePKP 03 43.50 -2.1
 BBS 144.41 337 PKP 03 44.02 -1.7
 AOI 144.61 327 ePKP 03 45.13 -1.0
 SAL 144.63 332 PKPc 03 44.70 -1.3
 LOMF 144.76 337 PKP 03 45.19 -1.1
 MDI 144.86 333 PKPc 03 44.40 -2.0
 RSM 144.94 328 PKPd 03 46.70 0.1
 ARV 144.99 327 PKPc 03 46.50 -0.3
 CIO 145.10 327 ePKP 03 45.85 -1.2
 VAI 145.20 334 PKPd 03 45.70 -1.2
 SFI 145.25 329 PKPc 03 48.00 0.9
 PGD 145.35 329 PKPd 03 47.80 0.2
 DUI 145.40 323 PKP 03 47.00 -0.6
 ASS 145.44 327 PKPc 03 47.10 -0.5
 TDS 145.49 319 PKPd 03 47.50 -0.2
 MME 145.62 330 PKP 03 48.30 0.2
 FIR 145.65 329 ePKP 03 48.00 0.2
 MGR 145.69 320 PKPc 03 47.30 -0.7
 ORX 145.72 334 PKP 03 47.20 -0.9
 FLN 145.73 346 ePKP 03 47.30 -0.5
 ORO 145.73 334 PKPd 03 47.50 -0.6
 BDI 145.76 330 PKPc 03 47.30 -0.8
 BOB 145.76 332 PKPc 03 48.60 0.5
 LDF 145.80 346 ePKP 03 47.50 -0.4
 LOR 145.87 340 ePKP 03 48.30 0.2
 MNS 145.90 326 PKPd 03 47.80 -0.6
 PII 146.05 330 PKPc 03 48.00 -0.5
 LBF 146.08 340 ePKP 03 48.80 0.3

11d 16h

GRR 146.16 346 ePKP 03 48.70 0.2
 SSF 146.17 340 ePKP 03 49.10 0.5
 LSD 146.20 335 PKP 03 49.85 0.8
 RDP 146.31 325 PKP 03 50.00 0.9
 LPG 146.33 335 ePKP 03 50.30 1.0
 RSP 146.41 335 PKP 03 48.96 -0.2
 SMF 146.42 340 ePKP 03 49.70 0.7
 AVF 146.46 340 ePKP 03 49.60 0.6
 LPF 146.54 346 ePKP 03 49.90 0.8
 CKI 146.55 333 PKP 03 49.00 -0.3
 SOI 146.57 317 PKPd 03 51.00 1.5
 MAO 146.69 327 PKP 03 50.50 0.9
 BNI 146.73 335 PKPc 03 51.80 2.1
 FIN 146.75 333 PKP 03 49.79 0.1
 RRL 146.79 335 PKP 03 51.27 1.3
 BGF 146.83 341 ePKP 03 50.90 1.2
 ROB 146.84 333 PKP 03 50.28 0.4
 ATN 146.91 318 PKP 03 50.70 0.6
 PZZ 147.00 334 PKP 03 49.93 -0.3
 STV 147.11 334 PKP 03 49.93 -0.4
 IMI 147.13 333 PKP 03 51.28 1.0
 MAF 147.21 341 ePKP 03 52.20 1.9
 TCF 147.27 341 ePKP 03 52.10 1.7
 AUTN 147.27 333 PKP 03 52.18 1.4
 TOUF 147.33 333 PKP 03 52.94 2.1
 SBF 147.37 333 ePKP 03 52.00 1.3
 AURF 147.40 333 PKP 03 52.94 2.2
 MVIF 147.46 333 PKP 03 52.94 2.0
 LSF 147.51 342 ePKP 03 52.50 1.7
 MNO 147.54 318 PKPd 03 53.80 2.5
 BNG 147.62 253 iPKPc 03 50.40 -1.5
 0.3s 100.00nm

S.D. = 1.1 on 156 of 176 obs.
 FEB 11, 1989 16h 20m 47.33±0.66s
 44.224 N ± 2.8km 6.346 E ± 5.9km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.8 (LDG).

FOUF 0.44 46 P 20 55.87 -0.3
 PZZ 0.61 62 P 20 59.02 -0.7
 CALN 0.61 140 Pg 20 59.53 -0.3
 MVIF 0.67 119 Pg 21 00.77 0.1
 TOUF 0.68 108 Pg 21 00.33 -0.7
 FRF 0.70 162 Pg 21 01.10 0.0
 STV 0.70 88 P 21 00.61 -0.7
 RRL 0.76 24 P 21 02.03 -0.4
 LRG 0.77 179 Pg 21 02.50 0.2
 AURF 0.78 115 Pg 21 02.78 0.1
 AUTN 0.81 106 Pg 21 04.20 1.0
 SBF 0.86 114 Pn 21 04.20 0.2
 REVf 0.88 123 Pg 21 05.48 1.2
 LMR 0.90 172 Pn 21 04.50 0.0
 ROB 1.10 86 P 21 08.12 0.1
 RSP 1.13 35 P 21 08.46 -0.2
 IMI 1.16 105 P 21 10.07 1.1
 LPG 1.31 13 Pg 21 12.30 0.6

LPL 1.32 12 Pg 21 12.40 0.5
 FIN 1.34 90 P 21 12.28 0.3
 LSD 1.36 25 P 21 12.53 0.0
 ORX 1.83 39 P 21 19.10 0.0
 CVF 2.47 131 Pn 21 26.40 -1.9
 S.D. = 0.7 on 23 of 23 obs.

& FEB 11, 1989 16h 34m 19.75s
 62.358 N 151.170 W
 DEPTH = 92.7km
 CENTRAL ALASKA (1)
 <AGS-P>.

PWA 0.94 139 iP 34 38.32 -0.8
 CRP 1.19 204 iP 34 41.64 -0.7
 GHO 1.21 118 iP 34 41.74 -0.8
 PLRM 1.23 128 eP 34 41.27 -1.4
 PME 1.25 125 eP 34 41.67 -1.2
 SPU 1.25 200 eP 34 41.96 -1.0
 PMS 1.35 145 eP 34 42.90 -1.3
 SML 1.44 111 iP 34 45.05 -0.3
 KNK 1.60 125 iP 34 46.12 -1.2
 NKA 1.62 181 eP 34 49.07 -1.5
 MCK 1.71 35 eP 34 47.93 -0.9
 RDT 1.89 199 eP 34 50.19 -0.9
 SLKM 1.91 166 eP 34 49.98 -1.5
 PWL 2.02 137 iP 34 50.95 -2.0
 TTA 2.31 287 eP 34 55.69 -1.1
 >NNL 2.32 182 eP 34 57.78 0.8
 TOA 2.35 94 eP 34 56.40 -1.0
 SEW 2.41 159 eP 34 56.83 -1.2
 NEA 2.42 22 eP 34 56.52 -1.7
 ILIM 2.44 202 eP 34 57.19 -1.4
 SVW 2.46 241 iP 34 57.86 -1.0
 VZW 2.56 119 eP 34 58.18 -1.9
 VLZ 2.61 116 eP 34 58.62 -2.1
 KLU 2.63 107 eP 34 58.88 -2.3
 PAX 2.70 74 eP 35 01.03 -1.1
 CCB 2.75 32 iP 35 00.80 -1.9
 HDA 2.80 41 eP 35 01.71 -1.7
 DDM 2.81 57 iP 35 03.02 -0.6
 RDS 2.82 27 eP 35 02.05 -1.7
 CNPM 2.84 181 eP 35 03.25 -0.8
 FBA 2.96 29 eP 35 04.13 -1.5
 HIN 2.99 129 iP 35 03.79 -2.2
 GLM 3.13 31 eP 35 06.46 -1.5
 CVA 3.17 123 eP 35 06.02 -2.5
 SGAM 3.42 120 eP 35 09.44 -2.4
 GLB 3.60 102 eP 35 12.20 -2.3
 CDD 3.65 201 eP 35 14.88 -0.2
 IMA 3.88 345 eP 35 17.08 -1.3
 DWY 5.58 67 P 35 39.00 -2.8
 INK 9.46 43 eP 36 32.00 -2.9

40 obs. associated
 % FEB 11, 1989 16h 34m 33.08±0.78s
 59.997 N ± 6.2km 6.576 E ± 11.4km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN NORWAY (535)
 MD 2.1 (BER).

ODD1 0.09 163 iPg 34 36.18 0.5
 BLS1 0.62 168 iP 34 45.38 -0.3
 KMY 1.04 221 eP 34 52.57 -0.1
 HYA 1.19 351 iPd 34 54.23 -1.0
 NRA0 2.58 71 eP 35 14.90 -0.6
 MOL 2.62 10 iP 35 17.64 1.5

S.D. = 1.1 on 6 of 6 obs.

? FEB 11, 1989 17h 48m 50.95±2.55s
 16.850 N ± 20.9km 100.520 W ± 18.4km
 DEPTH = 33.0km (normal)
 NEAR COAST OF GUERRERO, MEXICO (58)

ACX 0.63 88 iPc 49 03.50 0.0
 ILL 1.82 33 iP 49 20.00 -0.7
 CRX 2.67 17 iP 49 38.00 5.2X
 UNM 2.78 27 (P) 49 38.00 3.7X
 IIT 3.02 44 eP 49 38.00 0.2
 IIC 3.14 22 eP 49 40.00 0.4
 OXX 3.64 86 (P) 49 59.00 12.4X
 IISM 3.67 54 eP 49 43.00 -3.8X
 YKA 46.65 351 P 57 17.80 0.0

S.D. = 0.6 on 5 of 9 obs.

* FEB 11, 1989 17h 52m 19.10±0.85s
 38.438 N ± 7.6km 30.615 E ± 8.9km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 KWL 0.87 263 iPn 52 35.40 -0.4
 BOK 0.98 181 ePn 52 37.80 0.1
 ELL 1.78 199 ePn 52 55.00 4.8X
 GPA 1.86 353 ePn 52 51.00 -0.3
 DST 1.94 308 iPn 52 53.10 0.7
 BBTk 2.18 49 eP 52 56.00 0.0
 YLV 2.33 336 ePn 53 02.00 3.8X
 S.D. = 0.6 on 5 of 7 obs.

FEB 11, 1989 18h 31m 11.89±0.48s
 2.983 S ± 6.3km 145.386 E ± 8.2km
 DEPTH = 33.0km (normal)
 5.0mb (4 obs.) 4.4Msz (1 obs.)
 ADMIRALTY ISLANDS REGION (199)

MNDI 3.59 209 eP 32 11.00 4.2X
 LAT 3.98 156 eP 32 14.00 1.8
 JAY 4.70 276 ePd 32 22.00 -0.4
 PMG 6.62 165 iPc 32 47.70 -1.8
 0.9s 201.68nm 5.9mb X
 RAB 6.88 100 eP 32 53.00 0.0
 CTA 17.02 177 iPc 35 11.50 2.3
 1.1s 53.80nm 4.6mb
 MTN 17.17 234 eP 35 13.00 1.9
 0.7s 89.00nm 5.0mb X
 QIS 18.35 197 eP 35 25.00 -0.7
 WRA 20.01 212 Pc 35 42.70 -2.2
 1.3s 81.90nm 4.9mb
 KNA 20.70 231 eP 35 51.00 -1.0
 ASPA 23.37 207 iPd 36 19.60 1.0
 40 40.20
 RMO 23.59 172 iPc 36 21.60 0.9
 BRS 25.28 164 iP 36 36.30 -0.7
 WARB 29.26 216 eP 37 06.70 -6.6X
 BWA 31.41 175 eP 37 31.00 -1.3
 FORR 32.17 209 eP 37 38.00 -0.9
 WHN 44.59 321 eP 39 27.00 4.1X
 PSI 46.78 276 eP 39 21.50 -19.1X
 XAN 50.35 320 eP 40 07.40 -0.5
 BJI 50.50 331 P 40 13.00 4.1X
 TIY 50.72 326 eP 40 15.50 4.8X
 Z 22s 0.40um 4.4Msz
 CD2 52.04 314 eP 40 20.80 0.0
 HHC 53.44 328 eP 40 31.20 0.1
 BTO 54.08 327 eP 40 35.00 -0.9
 GTA 59.41 320 eP 41 14.40 0.5
 GUN 64.89 303 P 41 51.30 0.3
 1.0s 33.00nm 5.4mb
 PKI 65.18 302 P 41 53.40 0.5
 KKN 65.36 302 P 41 54.30 0.5
 1.0s 18.00nm 5.1mb
 DMN 65.45 302 P 41 55.10 0.6
 GKN 65.96 302 P 41 58.20 0.6
 HYB 68.92 290 eP 42 28.00 11.8X
 NDI 72.45 301 eP 42 48.00 10.6X
 INK 89.46 22 eP 44 06.00 -0.5

S.D. = 1.2 on 25 of 33 obs.

* FEB 11, 1989 18h 44m 16.59±0.89s
 2.403 N ± 19.1km 126.823 E ± 26.2km
 DEPTH = 33.0km (normal)
 4.4mb (4 obs.)
 MOLUCCA PASSAGE (266)

| | | | | | | |
|-----------------------------|-------|---------|-----|----|-------|------|
| KNA | 18.14 | 174 | eP | 48 | 28.00 | 0.2 |
| WB5 | 23.35 | 162 | iPd | 49 | 22.80 | -0.3 |
| WRA | 23.40 | 162 | Pc | 49 | 23.10 | -0.5 |
| | 0.5s | 4.40nm | | | 4.2mb | |
| WB2 | 23.41 | 162 | iPd | 49 | 22.80 | -0.8 |
| QIS | 26.03 | 152 | eP | 49 | 48.00 | -0.7 |
| ASPA | 26.81 | 165 | eP | 49 | 56.20 | 0.3 |
| STK | 36.87 | 159 | eP | 51 | 24.00 | 0.1 |
| BWA | 41.88 | 153 | eP | 52 | 07.10 | 1.5 |
| CAN | 42.89 | 153 | eP | 52 | 14.10 | 0.3 |
| GUN | 46.58 | 307 | P | 52 | 44.00 | 0.1 |
| | 0.6s | 14.00nm | | | 5.1mb | |
| PKI | 46.82 | 306 | P | 52 | 45.40 | -0.4 |
| KKN | 47.01 | 307 | P | 52 | 47.00 | -0.2 |
| | 0.6s | 4.00nm | | | 4.6mb | |
| GKN | 47.62 | 306 | P | 52 | 51.80 | -0.1 |
| GBA | 50.05 | 286 | P | 53 | 11.00 | 0.4 |
| | 0.4s | 0.90nm | | | 4.1mb | |
| S.D. = 0.6 on 14 of 14 obs. | | | | | | |

* FEB 11, 1989 19h 40m 07.71±0.53s
2.367 N ± 9.6km 126.582 E ± 16.5km
DEPTH = 33.0km (normol)
4.4mb (2 obs.)

MOLUCCA PASSAGE (266)

| | | | | | | |
|-----------------------------|-------|--------|----|----|-------|-------|
| KNA | 18.13 | 173 | eP | 44 | 19.00 | 0.2 |
| WB5 | 23.39 | 161 | eP | 45 | 15.00 | 0.4 |
| WRA | 23.44 | 161 | Pd | 45 | 15.10 | 0.0 |
| | 0.5s | 7.00nm | | | 4.4mb | |
| WB2 | 23.45 | 161 | eP | 45 | 15.00 | -0.2 |
| QIS | 26.12 | 151 | eP | 45 | 40.00 | -0.6 |
| ASPA | 26.84 | 165 | eP | 45 | 46.50 | -0.8 |
| WARB | 28.38 | 180 | eP | 45 | 55.80 | -5.4X |
| FORR | 33.06 | 178 | eP | 46 | 42.00 | -0.5 |
| MAT | 35.66 | 16 | eP | 47 | 04.00 | -0.8 |
| BJI | 38.67 | 347 | eP | 47 | 31.00 | 1.0 |
| BRS | 38.89 | 141 | eP | 47 | 30.50 | -1.6 |
| BWA | 41.96 | 153 | eP | 47 | 59.20 | 1.9 |
| CAN | 42.97 | 153 | eP | 48 | 07.00 | 1.4 |
| GUN | 46.41 | 307 | P | 48 | 34.30 | 0.6 |
| KKN | 46.84 | 307 | P | 48 | 37.00 | 0.1 |
| GBA | 49.83 | 286 | Pc | 48 | 58.90 | -1.1 |
| | 0.7s | 2.30nm | | | 4.3mb | |
| S.D. = 1.0 on 15 of 16 obs. | | | | | | |

FEB 11, 1989 20h 51m 21.95±0.58s
43.146 N ± 4.6km 0.213 E ± 8.3km
DEPTH = 10.0km (geophysicist)

FRANCE (538) ML 3.5 (LDG). Felt (III) at Arreou and Aragnouet.

| | | | | | | |
|------|------|-----|-----|----|-------|------|
| EPF | 0.15 | 141 | Pg | 51 | 25.10 | -0.3 |
| | | | Sg | 51 | 27.30 | |
| LPO | 1.69 | 24 | Pn | 51 | 52.10 | 0.5 |
| | | | Pg | 51 | 56.60 | |
| | | | Sg | 52 | 20.00 | |
| LFF | 1.83 | 12 | Pn | 51 | 54.40 | 0.7 |
| | | | Pg | 52 | 00.00 | |
| | | | Sg | 52 | 25.00 | |
| ECRI | 2.07 | 256 | ePn | 52 | 02.40 | 5.1X |
| | | | eSn | 52 | 30.00 | |
| ETER | 2.12 | 113 | ePn | 51 | 58.00 | 0.1 |
| | | | eSn | 52 | 21.80 | |
| CAF | 2.22 | 36 | Pn | 51 | 58.60 | -0.8 |
| | | | Pg | 52 | 05.20 | |
| | | | Sg | 52 | 33.60 | |
| EROO | 2.33 | 176 | ePn | 52 | 02.00 | 1.1 |
| | | | eSn | 52 | 27.30 | |
| RJF | 2.35 | 23 | Pg | 52 | 08.00 | 6.8X |
| | | | Sg | 52 | 39.00 | |
| ETOR | 2.87 | 217 | ePg | 52 | 14.50 | 5.8X |
| | | | eSg | 52 | 47.50 | |
| LSF | 3.24 | 16 | Pn | 52 | 13.80 | -0.1 |
| | | | Pg | 52 | 25.30 | |
| | | | Sg | 53 | 08.40 | |
| TCF | 3.45 | 24 | Pn | 52 | 17.20 | 0.4 |
| | | | Sg | 53 | 14.00 | |
| MFF | 3.47 | 356 | Pn | 52 | 17.50 | 0.5 |
| | | | Sg | 53 | 16.40 | |
| BGF | 3.89 | 28 | Pn | 52 | 23.00 | -0.1 |
| | | | Pg | 52 | 37.00 | |
| | | | Sg | 53 | 28.60 | |
| GUD | 4.11 | 234 | ePg | 52 | 25.30 | -1.0 |
| | | | eSg | 53 | 11.50 | |
| SMF | 4.35 | 35 | Pn | 52 | 28.40 | -1.1 |

Sg 53 41.80
S.D. = 0.8 on 12 of 15 obs.
% FEB 11, 1989 20h 57m 19.31±0.74s
37.033 N ± 6.1km 5.267 W ± 9.2km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
MG 3.0 (MDD).

| | | | | | | |
|---------------------------|------|-----|------|----|-------|-------|
| EPRU | 0.07 | 157 | iPg | 57 | 21.40 | -0.3 |
| EJIF | 0.60 | 196 | ePg | 57 | 31.70 | 0.2 |
| EHOR | 0.79 | 1 | iPg | 57 | 34.60 | 0.0 |
| | | | iSg | 57 | 45.10 | |
| EVAL | 1.30 | 295 | iPnc | 57 | 43.30 | -0.1 |
| | | | eSn | 58 | 00.40 | |
| EBAN | 1.63 | 46 | iPnc | 57 | 48.30 | 0.1 |
| | | | eSn | 58 | 08.40 | |
| EPLA | 3.10 | 348 | ePg | 58 | 18.00 | 8.9X |
| | | | eSg | 58 | 54.70 | |
| GUD | 3.71 | 13 | ePg | 58 | 29.70 | 11.7X |
| | | | eSg | 59 | 11.40 | |
| S.D. = 0.3 on 5 of 7 obs. | | | | | | |

FEB 12, 1989 00h 48m 32.99±0.55s
44.232 N ± 2.8km 6.290 E ± 4.9km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 3.0 (LDG).

| | | | | | | |
|---|------|-----|-----|----|-------|------|
| FOUF | 0.46 | 50 | P | 48 | 42.00 | -0.4 |
| | | | Sg | 48 | 46.44 | |
| PZZ | 0.64 | 65 | P | 48 | 45.13 | -0.8 |
| | | | S | 48 | 52.77 | |
| CALN | 0.65 | 138 | Pg | 48 | 45.61 | -0.4 |
| MVIF | 0.71 | 118 | Pg | 48 | 47.16 | 0.1 |
| FRF | 0.72 | 159 | Pg | 48 | 47.50 | 0.4 |
| | | | Sg | 48 | 59.00 | |
| TOUF | 0.72 | 107 | Pg | 48 | 46.44 | -0.9 |
| DOI | 0.74 | 68 | P | 48 | 46.60 | -0.9 |
| | | | eSn | 48 | 54.60 | |
| STV | 0.74 | 89 | P | 48 | 46.72 | -0.9 |
| | | | S | 48 | 55.08 | |
| RRL | 0.77 | 27 | P | 48 | 48.05 | -0.2 |
| | | | S | 48 | 57.71 | |
| LRG | 0.78 | 176 | Pg | 48 | 48.80 | 0.7 |
| | | | Sg | 49 | 00.80 | |
| AURF | 0.82 | 114 | Pg | 48 | 48.61 | -0.4 |
| | | | Sg | 49 | 01.34 | |
| AUTN | 0.85 | 106 | Pg | 48 | 50.66 | 1.1 |
| BNI | 0.87 | 18 | P | 48 | 50.00 | 0.3 |
| | | | eSg | 49 | 00.40 | |
| SBF | 0.90 | 114 | Pn | 48 | 50.50 | 0.1 |
| | | | Pg | 48 | 51.60 | |
| | | | Sg | 49 | 01.80 | |
| LMR | 0.91 | 170 | Pn | 48 | 50.80 | 0.4 |
| | | | Pg | 48 | 51.80 | |
| | | | Sg | 49 | 04.60 | |
| REVF | 0.92 | 122 | Pg | 48 | 51.45 | 0.8 |
| ROB | 1.14 | 86 | P | 48 | 54.18 | -0.1 |
| | | | S | 49 | 07.64 | |
| RSP | 1.15 | 37 | P | 48 | 54.85 | 0.3 |
| | | | S | 49 | 08.66 | |
| IMI | 1.20 | 105 | P | 48 | 56.07 | 0.7 |
| | | | S | 49 | 10.72 | |
| LPG | 1.31 | 14 | Pg | 48 | 58.20 | 0.8 |
| LPL | 1.32 | 14 | Pg | 48 | 58.40 | 0.8 |
| | | | Sg | 49 | 16.00 | |
| LSD | 1.37 | 26 | P | 48 | 58.53 | 0.2 |
| | | | S | 49 | 14.43 | |
| FIN | 1.38 | 90 | P | 48 | 58.07 | -0.2 |
| | | | S | 49 | 13.54 | |
| CKI | 1.44 | 82 | P | 48 | 59.90 | 0.8 |
| | | | eSn | 49 | 16.20 | |
| ORX | 1.85 | 40 | P | 49 | 06.04 | 1.0 |
| CVF | 2.51 | 131 | Pn | 49 | 13.00 | -1.5 |
| BGF | 3.36 | 315 | Pn | 49 | 25.00 | -1.6 |
| S.D. = 0.8 on 27 of 27 obs. | | | | | | |
| FEB 12, 1989 02h 20m 05.34±0.43s 42.761 N ± 4.5km 18.624 E ± 4.3km DEPTH = 10.0km (geophysicist) YUGOSLAVIA (383) MD 2.7 (TTG). | | | | | | |
| BRY | 0.15 | 337 | iPg | 20 | 06.80 | -2.2 |
| | | | iSg | 20 | 11.00 | |
| NKY | 0.28 | 79 | iPg | 20 | 10.50 | -0.8 |

| | | | | | | |
|-----------------------------|------|--------|-----|----|-------|------|
| HCY | 0.33 | 196 | iPg | 20 | 16.50 | |
| | | | iSg | 20 | 16.00 | |
| BDV | 0.50 | 162 | ePg | 20 | 14.40 | -1.1 |
| | | | eSg | 20 | 24.20 | |
| TTG | 0.58 | 125 | iPg | 20 | 15.50 | -1.5 |
| | | | eSg | 20 | 26.00 | |
| PLE | 0.80 | 45 | ePg | 20 | 20.00 | -1.0 |
| | | | eSg | 20 | 33.40 | |
| ULC | 0.92 | 150 | ePg | 20 | 23.00 | 0.0 |
| | | | eSg | 20 | 37.30 | |
| IVA | 0.94 | 83 | ePg | 20 | 23.50 | 0.1 |
| | | | eSg | 20 | 40.00 | |
| SDA | 0.99 | 139 | ePg | 20 | 24.70 | 0.7 |
| PVY | 1.01 | 99 | ePg | 20 | 24.50 | 0.0 |
| | | | eSg | 20 | 42.00 | |
| HVAR | 1.65 | 285 | iPn | 20 | 33.80 | -0.7 |
| | | | iSg | 20 | 56.40 | |
| TIR | 1.69 | 146 | ePn | 20 | 37.00 | 2.0 |
| BRT | 2.16 | 210 | P | 20 | 45.80 | 3.9X |
| SKO | 2.23 | 110 | iPn | 20 | 45.50 | 2.6 |
| OHR | 2.31 | 135 | ePn | 20 | 47.80 | 3.7X |
| BEO | 2.45 | 32 | ePn | 20 | 45.50 | -0.4 |
| | | | eSg | 21 | 28.00 | |
| LCI | 2.48 | 192 | P | 20 | 53.50 | 7.2X |
| VAY | 3.27 | 115 | ePn | 21 | 04.70 | 7.0X |
| MGR | 3.49 | 222 | P | 21 | 02.00 | 1.2 |
| BZS | 3.58 | 36 | ePc | 21 | 02.00 | 0.1 |
| VBY | 3.66 | 320 | ePn | 21 | 04.40 | 1.2 |
| | | | eSn | 21 | 44.00 | |
| | | | eSg | 21 | 58.10 | |
| PTJ | 3.67 | 330 | eP | 21 | 03.60 | 0.1 |
| SDI | 3.72 | 255 | P | 21 | 03.20 | -1.0 |
| CEY | 4.24 | 316 | eP | 21 | 13.50 | 2.1 |
| | | | e | 22 | 07.50 | |
| | | | eSn | 22 | 21.00 | |
| ASS | 4.39 | 276 | P | 21 | 14.00 | 0.4 |
| VOY | 4.71 | 316 | ePn | 21 | 17.60 | -0.6 |
| | | | eSn | 22 | 15.10 | |
| FVI | 5.66 | 315 | P | 21 | 31.70 | 0.2 |
| KBA | 5.72 | 321 | iPd | 21 | 33.00 | 0.5 |
| | 0.5s | 1.60nm | | | 4.0mb | |
| S.D. = 1.3 on 24 of 28 obs. | | | | | | |

% FEB 12, 1989 02h 51m 34.23±1.28s
40.648 N ± 10.2km 27.397 E ± 7.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

| | | | | | | |
|-----------------------------------|------|-----|-----|----|-------|------|
| EDC | 0.47 | 130 | iPg | 51 | 43.50 | -0.2 |
| | | | eSg | 51 | 51.50 | |
| BNT | 0.49 | 126 | iPg | 51 | 44.20 | -0.1 |
| | | | iSg | 51 | 51.70 | |
| KCT | 0.83 | 118 | iPg | 51 | 50.70 | 0.3 |
| | | | iSg | 52 | 02.20 | |
| CTT | 0.93 | 57 | ePg | 51 | 51.90 | -0.1 |
| | | | eSg | 52 | 04.60 | |
| EZN | 1.16 | 225 | iPn | 51 | 55.90 | 0.0 |
| S.D. = 0.3 on 5 of 5 obs. | | | | | | |
| <hr/> | | | | | | |
| FEB 12, 1989 03h 52m 02.30± 0.23s | | | | | | |
| 44.230 N ± 2.5km 6.346 E ± 1.9km | | | | | | |
| DEPTH = 11.0 ± 1.6 km | | | | | | |
| FRANCE (538) | | | | | | |
| ML 3.8 (LDG). MD 3.6 (STR). | | | | | | |
| <hr/> | | | | | | |
| FOUF | 0.43 | 46 | P | 52 | 10.89 | -0.3 |
| PZZ | 0.61 | 63 | Pd | 52 | 14.10 | -0.5 |
| DOI | 0.70 | 67 | P | 52 | 15.50 | -0.6 |
| | | | eSn | 52 | 29.80 | |
| FRF | 0.70 | 162 | Pg | 52 | 16.00 | -0.1 |
| | | | Sg | 52 | 26.00 | |
| STV | 0.70 | 88 | Pc | 52 | 15.70 | -0.5 |
| | | | S | 52 | 25.51 | |
| RRL | 0.76 | 24 | Pd | 52 | 17.03 | -0.2 |
| | | | S | 52 | 28.13 | |
| LRG | 0.77 | 179 | Pg | 52 | 17.60 | 0.3 |
| | | | Sg | 52 | 28.80 | |
| BNI | 0.86 | 16 | P | 52 | 18.90 | 0.1 |
| | | | eSn | 52 | 32.30 | |
| SBF | 0.87 | 115 | Pg | 52 | 18.60 | -0.3 |
| | | | Sg | 52 | 28.50 | |
| LMR | 0.90 | 172 | Pn | 52 | 19.50 | 0.0 |
| | | | Pg | 52 | 20.40 | |
| | | | Sg | 52 | 34.00 | |
| ROB | 1.10 | 86 | Pc | 52 | 23.00 | 0.1 |
| | | | S | 52 | 37.02 | |

12d 03h

| | | | | | | | | | | | | | | | | | |
|------|------|-----|-----|----------|-------|-----------------------------------|-------|----------|----------|---------|------|-------|-----|-----------|----------|---------|---------|
| RSP | 1.13 | 35 | Pc | 52 23.64 | 0.2 | | | Sn | 54 03.00 | | CN2 | 32.09 | 83 | iPc | 21 36.80 | -0.7 | |
| | | | S | 52 38.59 | | FVI | 5.11 | 60 P | 53 21.50 | 1.0 | Z | 20s | | 2.40um | | 4.9Msz | |
| IMI | 1.16 | 105 | Pc | 52 23.87 | 0.0 | | | eSn | 54 16.80 | | E | 10s | | 0.70um | | | |
| | | | S | 52 39.50 | | MFF | 5.15 | 300 Pn | 53 21.00 | -0.1 | | | | PcP | 24 25.00 | | |
| LPG | 1.30 | 13 | Pg | 52 26.80 | 0.3 | | | Sg | 54 48.50 | | HYB | 32.43 | 180 | iP | 21 39.60 | -1.1 | |
| LPL | 1.32 | 12 | Pg | 52 27.20 | 0.5 | WLF | 5.44 | 359 P | 53 35.90 | 10.7X | WHN | 32.95 | 113 | eP | 21 45.00 | -0.1 | |
| | | | Sg | 52 49.20 | | TRI | 5.47 | 72 P | 53 25.50 | -0.1 | Z | 14s | | 1.19um | | 4.7MszX | |
| FIN | 1.34 | 90 | Pc | 52 27.10 | 0.2 | RBL | 5.55 | 64 P | 53 26.40 | -0.5 | N | 10s | | 0.62um | | | |
| | | | S | 52 44.08 | | VOY | 5.64 | 69 ePn | 53 27.50 | -0.6 | IAS | 33.45 | 285 | ePd | 21 50.00 | 0.7 | |
| LSD | 1.36 | 25 | P | 52 27.56 | 0.2 | | | eS | 54 32.30 | | BBTK | 33.62 | 270 | iPc | 21 52.00 | 1.0 | |
| | | | S | 52 44.86 | | KBA | 5.67 | 57 eP | 53 29.50 | 0.8 | BIR | 33.79 | 284 | eP | 21 52.50 | 0.2 | |
| CKI | 1.40 | 81 | P | 52 28.70 | 1.0 | | 0.7s | | | 4.4mb X | PPE | 33.82 | 284 | ePd | 21 51.50 | -1.0 | |
| | | | eSn | 52 48.30 | | | | i | 53 32.50 | | CLI | 33.89 | 284 | iPc | 21 53.00 | -0.1 | |
| ORO | 1.81 | 39 | P | 52 33.90 | 0.1 | | | e | 54 47.00 | | CFR | 33.93 | 282 | ePc | 21 53.00 | -0.5 | |
| | | | eSn | 52 57.00 | | DOU | 5.99 | 349 iS | 53 31.80 | -1.1 | TLB | 34.28 | 281 | ePd | 21 56.50 | 0.0 | |
| ORX | 1.82 | 39 | P | 52 33.18 | -0.7 | | | i | 54 39.60 | | MDJ | 34.36 | 79 | iPc | 21 56.60 | -0.6 | |
| GEN | 1.86 | 83 | P | 52 34.92 | 0.6 | | | iS | 54 39.60 | | Z | 10s | | 1.90um | | 5.1MszX | |
| BOB | 2.28 | 75 | P | 52 43.00 | 2.4 | SDI | 6.03 | 112 P | 53 32.00 | -1.6 | | | | PcP | 24 32.30 | | |
| | | | eSn | 53 11.00 | | LDF | 6.25 | 317 Pn | 53 36.00 | -0.6 | VRI | 34.53 | 284 | iPc | 21 59.00 | 0.3 | |
| VAI | 2.37 | 46 | P | 52 42.70 | 1.0 | LPF | 6.39 | 309 Pn | 53 38.00 | -0.6 | NJ2 | 34.64 | 106 | eP | 22 00.00 | 0.3 | |
| | | | eSn | 53 12.00 | | MEM | 6.39 | 358 P | 53 39.00 | 0.5 | | N | 10s | | 0.40um | | |
| CVF | 2.48 | 131 | Pn | 52 41.70 | -1.5 | GRF | 6.40 | 30 e(Pn) | 54 04.50 | 25.7X | E | 10s | | 0.40um | | | |
| | | | Sn | 53 10.00 | | SNF | 6.44 | 348 iPd | 53 38.30 | -1.0 | | | | PcP | 24 33.50 | | |
| MDI | 2.84 | 56 | P | 52 49.80 | 1.4 | GRR | 6.49 | 312 Pn | 53 39.20 | -0.9 | GPA | 34.96 | 273 | iP | 22 02.90 | 0.4 | |
| | | | eSn | 53 22.30 | | FLN | 6.54 | 316 Pn | 53 39.40 | -1.3 | CMG | 35.00 | 145 | iPc | 22 03.50 | 0.5 | |
| SMF | 2.99 | 325 | Pn | 52 51.00 | 0.5 | KHC | 6.98 | 43 eP | 53 45.60 | -1.4 | | 0.8s | | 134.33nm | | 5.8mb | |
| | | | Pg | 53 01.00 | | | | e | 54 26.60 | | MLR | 35.19 | 284 | iPc | 22 05.00 | 0.5 | |
| | | | Sg | 53 39.00 | | MOX | 7.35 | 27 e(P) | 54 22.00 | 30.0X | UPP | 35.28 | 310 | iPc | 22 03.90 | -1.0 | |
| PII | 3.06 | 98 | P | 52 51.90 | 0.5 | | | e | 56 04.00 | | | 0.9s | | 1000.00nm | | 6.6mb | |
| | | | eSn | 53 27.30 | | PRU | 8.02 | 41 eP | 54 04.50 | 3.0X | ISK | 35.36 | 275 | eP | 22 06.00 | 0.2 | |
| BDI | 3.06 | 92 | P | 52 52.00 | 0.4 | | | e | 56 12.30 | | RYD | 35.40 | 237 | iPc | 22 06.30 | -0.1 | |
| | | | eSn | 53 28.40 | | CLL | 8.38 | 30 e(Pg) | 54 44.00 | 37.5X | YLV | 35.42 | 274 | iP | 22 06.50 | 0.1 | |
| MME | 3.13 | 89 | P | 52 53.70 | 1.0 | | | eSg | 56 50.00 | | HRI | 35.64 | 259 | iPc | 22 10.60 | 2.2 | |
| | | | eSn | 53 30.80 | | BRG | 8.40 | 35 e(P) | 54 44.00 | 37.3X | CTT | 35.72 | 275 | eP | 22 09.00 | 0.1 | |
| CAF | 3.14 | 284 | Pn | 52 53.50 | 0.9 | | | e | 56 40.00 | | DMK | 35.80 | 277 | eP | 22 10.00 | 0.4 | |
| | | | Sn | 53 30.00 | | | | e | 56 50.00 | | LOF | 36.00 | 325 | iP | 22 09.83 | -1.1 | |
| LOMF | 3.14 | 6 | Pn | 53 52.00 | 59.3X | S.D. = 0.8 on 65 of 74 obs. | | | | | OASM | 36.04 | 242 | iPc | 22 11.90 | 0.1 | |
| | | | Pg | 54 02.19 | | FEB 12, 1989 04h 15m 06.82±0.08s | | | | | CJR1 | 36.12 | 287 | eP | 22 13.20 | 1.0 | |
| LBF | 3.22 | 330 | Pn | 52 53.50 | -0.3 | 49.925 N ± 2.3km 78.740 E ± 1.5km | | | | | GBA | 36.23 | 182 | Pc | 22 12.00 | -1.4 | |
| | | | Pg | 53 04.00 | | DEPTH = 0.0km (geophysicist) | | | | | | 0.9s | | 138.00nm | | 5.8mb | |
| | | | Sg | 53 48.00 | | 5.9mb (122 obs.) 4.6Msz (3 obs.) | | | | | KCT | 36.24 | 274 | iP | 22 15.00 | 1.7 | |
| SAL | 3.27 | 64 | P | 52 55.60 | 1.1 | EASTERN KAZAKH SSR (329) | | | | | BCK | 36.36 | 269 | eP | 22 13.80 | -0.7 | |
| AVF | 3.31 | 322 | Pn | 52 55.50 | 0.4 | WMO | 8.65 | 131 iPc | 17 15.20 | -1.1 | DST | 36.42 | 273 | iP | 22 15.40 | 0.5 | |
| | | | Pg | 53 07.00 | | GTA | 18.25 | 117 iPd | 19 22.50 | -0.6 | BDT | 36.46 | 146 | iPc | 22 15.60 | 0.3 | |
| | | | Sg | 53 50.40 | | | 2.0s | | 0.70nm | | | 0.1s | | 165.60nm | | 6.8mb | |
| MAF | 3.33 | 308 | Pn | 52 56.00 | 0.6 | MHI | 19.49 | 233 eP | 19 36.00 | -2.3 | EDC | 36.51 | 275 | iP | 22 16.50 | 1.0 | |
| | | | Pg | 53 08.00 | | | 0.9s | | 746.22nm | | SALJ | 36.51 | 257 | Pc | 22 16.50 | 0.8 | |
| | | | Sg | 53 52.50 | | | | eS | 23 22.00 | | KFNJ | 36.62 | 257 | P | 22 17.60 | 1.1 | |
| BGF | 3.39 | 315 | Pn | 52 56.60 | 0.4 | QUE | 21.63 | 209 iPc | 19 59.10 | -1.7 | PVL | 36.65 | 280 | iPc | 22 19.00 | 2.4 | |
| | | | Pg | 53 08.60 | | LSA | 22.28 | 150 Pc | 20 08.90 | 1.3 | SSE | 36.75 | 105 | Pd | 22 17.80 | 0.2 | |
| | | | Sg | 53 54.00 | | HHC | 24.61 | 99 Pd | 20 30.90 | 1.1 | | 1.0s | | 91.00nm | | 5.5mb | |
| SSF | 3.46 | 326 | Pn | 52 57.50 | 0.3 | Z | 11s | | 9.30um | | | Z | 14s | | 0.50um | | 4.5MszX |
| | | | Pg | 53 09.00 | | N | 10s | | 2.20um | | E | 10s | | 0.40um | | | |
| | | | Sg | 53 54.40 | | E | 10s | | 3.50um | | | 11s | | 0.40um | | | |
| LOR | 3.50 | 331 | Pn | 52 58.00 | 0.2 | | | eS | 24 57.00 | | JVI | 36.78 | 257 | iPc | 22 20.00 | 2.2 | |
| | | | Pg | 53 10.00 | | SHL | 26.37 | 152 iP | 20 45.80 | -0.8 | MKRJ | 36.85 | 257 | Pd | 22 18.20 | -0.4 | |
| | | | Sg | 53 56.00 | | | | eS | 25 32.00 | | KRA | 36.95 | 293 | iP | 22 19.00 | -0.1 | |
| FIR | 3.57 | 96 | ePn | 53 03.00 | 4.3X | CD2 | 26.69 | 126 iPc | 20 50.30 | 0.9 | | 0.9s | | 490.00nm | | 6.2mb | |
| TCF | 3.57 | 307 | Pn | 52 59.50 | 0.7 | TIY | 26.97 | 104 iPc | 20 52.40 | 0.5 | SPC | 37.11 | 292 | iPc | 22 21.70 | 1.0 | |
| | | | Sg | 53 59.60 | | | 0.7s | | 0.10nm | | | 0.6s | | 331.00nm | | 6.2mb | |
| RJF | 3.60 | 289 | Pn | 53 00.00 | 0.8 | | N | 10s | 1.30um | | HFS | 37.15 | 311 | iPc | 22 20.10 | -0.6 | |
| | | | Sn | 53 40.20 | | | | S | 25 24.00 | | | 0.4s | | 1167.50nm | | 7.0mb X | |
| BSF | 3.62 | 5 | Pn | 52 58.60 | -0.9 | XAN | 27.24 | 114 iPc | 20 54.50 | 0.1 | Z | 18s | | 0.51um | | 4.4Msz | |
| | | | Pg | 53 10.60 | | | 1.0s | | 0.20nm | | | | | LR | 37 33.00 | | |
| | | | Sg | 53 58.00 | | BJI | 28.00 | 96 Pc+ | 21 01.50 | 0.4 | ELL | 37.22 | 268 | iP | 22 22.50 | 0.8 | |
| LPO | 3.72 | 279 | Pn | 53 01.30 | 0.4 | | Z | 13s | 2.40um | | LOE | 37.35 | 142 | eP | 22 22.00 | -0.8 | |
| | | | Sn | 53 43.40 | | | N | 11s | 1.10um | | KDZ | 37.39 | 278 | iPc | 22 19.00 | -3.9X | |
| PGD | 3.89 | 93 | P | 53 03.50 | 0.0 | | E | 10s | 1.50um | | PGB | 37.72 | 280 | iPc | 22 27.00 | 1.2 | |
| LSF | 3.96 | 302 | Pn | 53 05.20 | 1.0 | | | eLg | 30 15.00 | | EZN | 37.78 | 275 | iP | 22 27.10 | 0.9 | |
| | | | Pg | 53 18.20 | | KJF | 30.23 | 317 iP | 21 19.80 | -1.2 | RZN | 37.82 | 279 | iPc | 22 29.00 | 2.3 | |
| | | | Sg | 54 11.00 | | | 0.6s | | 412.00nm | | BZS | 37.83 | 286 | eP | 22 28.00 | 1.4 | |
| SFI | 3.98 | 93 | P | 53 04.90 | 0.4 | TIA | 30.85 | 102 P | 21 27.10 | 0.4 | PSZ | 37.86 | 290 | iP | 22 27.90 | 1.0 | |
| | | | eSn | 53 51.10 | | | E | 12s | 0.80um | | IZM | 37.97 | 272 | iP | 22 28.20 | 0.3 | |
| HYF | 4.00 | 321 | Pn | 53 05.20 | 0.5 | SUF | 30.89 | 315 iPc | 21 26.00 | -0.8 | NRA0 | 38.03 | 313 | P | 22 25.90 | -2.2 | |
| | | | Pg | 53 20.00 | | SOD | 30.99 | 324 iP | 21 26.60 | -1.0 | GZH | 38.06 | 122 | iPc | 22 28.00 | -0.6 | |
| | | | Sg | 54 11.70 | | KEV | 31.28 | 328 iP | 21 29.20 | -0.9 | NB2 | 38.11 | 313 | P | 22 28.00 | -0.8 | |
| VITF | 4.00 | 357 | Pn | 54 04.00 | 59.3X | | 0.7s | | 92.10nm | | VTS | 38.31 | 281 | iPc | 22 32.00 | 1.2 | |
| LFF | 4.07 | 282 | Pn | 53 06.20 | 0.5 | NUR | 31.71 | 310 iPc | 21 33.40 | -0.6 | NST | 38.32 | 145 | iPc | 22 32.10 | 1.2 | |
| | | | Sn | 53 53.00 | | | Z | 18s | 1.10um | | MMB | 38.50 | 279 | iPc | 22 33.00 | 0.7 | |
| | | | Sg | 54 15.80 | | | | i | 22 28.80 | | MBH | 38.54 | 255 | iPc | 22 35.00 | 2.3 | |
| CRE | 4.09 | 96 | P | 53 06.20 | 0.0 | | | LR | 34 50.00 | | BUD | 38.58 | 290 | ePc | 22 33.50 | 0.7 | |
| | | | eSn | 53 52.90 | | GYA | 31.78 | 127 iPc | 21 35.00 | -0.1 | KSP | 38.77 | 296 | iPc | 22 34.40 | 0.0 | |
| CTI | 4.17 | 62 | P | 53 07.80 | 0.5 | | | PcP | 24 25.40 | | | 0.8s | | 225.00nm | | 5.9mb | |
| CDF | 4.23 | 8 | Pn | 53 06.40 | -1.8 | SNY | 31.84 | 87 iPc | 21 34.60 | -0.7 | SRO | 38.86 | 291 | iPc | 22 36.50 | 1.3 | |
| | | | Pg | 53 22.00 | | | | i | 22 28.80 | | | | | e | 34 44.00 | | |
| | | | Sg | 54 17.40 | | | | LR | 34 50.00 | | | | | | | | |
| EPF | 4.52 | 257 | Pn | 53 11.70 | -0.6 | | | PcP | 24 25.40 | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | |
|------|-------|----------|------|----|-------|---------|------|-------|----------|-----|-------|-------|-------|------|-------|----------|-----|----|-------|-------|-------|
| BEO | 38.93 | 286 | e(P) | 22 | 36.00 | 0.2 | WTS | 43.64 | 302 | iPc | 23 | 15.00 | 0.6 | FIN | 46.75 | 291 | P | 23 | 38.07 | -1.3 | |
| COP | 39.11 | 305 | iPc | 22 | 37.40 | 0.3 | | 0.7s | 68.00nm | | | | 5.6mb | RSP | 46.81 | 293 | P | 23 | 37.38 | -2.6 | |
| | 0.8s | 185.07nm | | | | 5.8mb | | | ePP | 24 | 55.50 | | | USI | 46.81 | 282 | Pc | 23 | 39.60 | -0.2 | |
| HKC | 39.14 | 122 | P | 22 | 38.80 | 1.1 | CTI | 43.71 | 292 | Pd | 23 | 15.00 | -0.2 | ROB | 46.91 | 292 | P | 23 | 39.38 | -1.3 | |
| BADA | 39.34 | 254 | iPc | 22 | 40.70 | 1.3 | AOI | 43.83 | 288 | eP | 23 | 15.96 | -0.1 | LPG | 46.92 | 294 | iPc | 23 | 41.50 | 0.5 | |
| VAY | 39.38 | 280 | iPc | 22 | 40.00 | 0.4 | BNS | 43.92 | 300 | iPc | 23 | 17.00 | 0.4 | | 0.6s | 51.70nm | | | | 5.8mb | |
| | 0.7s | 0.23nm | | | | 2.9mb X | | 1.0s | 91.00nm | | | | 5.6mb | ELO | 47.01 | 311 | ePc | 23 | 40.50 | -0.7 | |
| MOL | 39.39 | 316 | iPc | 22 | 38.99 | -0.4 | MTMJ | 43.92 | 84 | P | 23 | 15.70 | -1.3 | EDI | 47.02 | 310 | ePc | 23 | 40.60 | -0.6 | |
| ZST | 39.42 | 292 | iPc | 22 | 41.00 | 1.2 | WKYJ | 43.95 | 89 | eP | 23 | 16.50 | -0.7 | EBH | 47.02 | 311 | ePc | 23 | 40.40 | -0.9 | |
| | 0.6s | 100.00nm | | | | 5.6mb | AKUR | 44.07 | 251 | iPc | 23 | 18.50 | 0.4 | | 0.7s | 148.00nm | | | | 6.2mb | |
| OIZ | 39.57 | 130 | Pc | 22 | 42.00 | 0.6 | HOOU | 44.09 | 74 | P | 23 | 17.90 | -0.2 | EBL | 47.02 | 310 | iPc | 23 | 40.70 | -0.6 | |
| OZH | 39.60 | 114 | eP | 22 | 40.80 | -0.8 | AKSR | 44.11 | 251 | iPc | 23 | 19.30 | 0.9 | IMI | 47.11 | 291 | P | 23 | 41.66 | -0.6 | |
| SKO | 39.76 | 281 | iPc | 22 | 43.00 | 0.3 | | 0.1s | 125.00nm | | | | 6.7mb | DOI | 47.17 | 292 | P | 23 | 40.40 | -2.4 | |
| VKA | 39.86 | 292 | iPc | 22 | 44.80 | 1.3 | MAT | 44.21 | 84 | eP | 23 | 17.00 | -2.2 | EAU | 47.19 | 310 | ePc | 23 | 42.10 | -0.5 | |
| | 0.8s | 155.00nm | | | | 5.7mb | | 0.6s | 23.33nm | | | | 5.2mb | BNI | 47.21 | 293 | Pc | 23 | 43.10 | 0.0 | |
| SOP | 39.98 | 292 | iPc | 22 | 45.20 | 0.8 | AGRW | 44.23 | 251 | iPc | 23 | 20.50 | 1.1 | RRL | 47.22 | 293 | P | 23 | 43.41 | 0.1 | |
| KMSA | 40.06 | 235 | iPc | 22 | 45.50 | 0.0 | ALP | 44.25 | 287 | eP | 23 | 19.98 | 0.3 | PZZ | 47.26 | 292 | P | 23 | 41.23 | -2.3 | |
| WAJH | 40.08 | 250 | iPc | 22 | 46.90 | 1.4 | TDS | 44.26 | 281 | Pc | 23 | 20.40 | 0.8 | CVF | 47.27 | 289 | P | 23 | 43.25 | -0.2 | |
| BRG | 40.12 | 297 | iPc | 22 | 45.90 | 0.3 | CIO | 44.30 | 288 | eP | 23 | 19.90 | 0.0 | STV | 47.27 | 292 | P | 23 | 41.53 | -2.0 | |
| | 1.0s | 110.00nm | | | | 5.5mb | NIJJ | 44.30 | 83 | P | 23 | 18.00 | -1.9 | EKA | 47.29 | 310 | Pc | 23 | 42.80 | -0.7 | |
| | | | | | | | DUI | 44.32 | 285 | P | 23 | 20.60 | 0.5 | | 0.6s | 112.50nm | | | | 6.2mb | |
| | | | | | | | RSM | 44.33 | 289 | Pc | 23 | 20.60 | 0.6 | ESK | 47.32 | 310 | ePc | 23 | 43.00 | -0.7 | |
| | | | | | | | YAMJ | 44.41 | 81 | P | 23 | 21.00 | 0.2 | | 0.8s | 166.00nm | | | | 6.2mb | |
| | | | | | | | AGMR | 44.47 | 251 | iPc | 23 | 22.50 | 1.1 | AUTN | 47.34 | 292 | P | 23 | 44.46 | 0.2 | |
| PRU | 40.15 | 296 | iPc | 22 | 46.40 | 0.6 | MGR | 44.48 | 282 | P | 23 | 21.70 | 0.3 | SBF | 47.41 | 291 | iPc | 23 | 44.10 | -0.5 | |
| | 1.0s | 86.70nm | | | | 5.4mb | KUSJ | 44.58 | 72 | eP | 23 | 20.90 | -1.2 | | 1.0s | 781.20nm | | | | 6.8mb | |
| | | | | | | | SAL | 44.62 | 292 | Pd | 23 | 22.20 | -0.1 | FOUF | 47.43 | 293 | P | 23 | 44.35 | -0.3 | |
| HYA | 40.42 | 314 | iPc | 22 | 47.70 | -0.2 | GW | 44.62 | 297 | P | 23 | 22.32 | -0.1 | TOUF | 47.44 | 292 | P | 23 | 44.92 | -0.1 | |
| CLL | 40.47 | 298 | iPc | 22 | 48.50 | 0.0 | IIDJ | 44.66 | 86 | P | 23 | 22.70 | -0.3 | EAB | 47.45 | 311 | ePc | 23 | 44.00 | -0.7 | |
| | 0.7s | 220.00nm | | | | 5.9mb | GRJ | 44.69 | 280 | P | 23 | 23.84 | 0.7 | AURF | 47.46 | 292 | P | 23 | 44.92 | -0.2 | |
| MUD | 40.54 | 307 | iPc | 22 | 48.50 | -0.4 | SDI | 44.69 | 285 | Pc | 23 | 22.90 | -0.2 | MVIF | 47.56 | 292 | P | 23 | 45.68 | -0.3 | |
| | 0.7s | 180.00nm | | | | 5.9mb | SFI | 44.70 | 289 | Pc | 23 | 24.10 | 1.1 | LOR | 47.66 | 297 | iPc | 23 | 45.60 | -0.9 | |
| | | | | | | | ENN | 44.71 | 300 | iPc | 23 | 23.50 | 0.5 | | 0.7s | 40.40nm | | | | 5.7mb | |
| ODD1 | 40.61 | 313 | iPc | 22 | 49.73 | 0.2 | | 0.9s | 77.00nm | | | | 5.6mb | OBO | 47.73 | 230 | ePc | 23 | 48.36 | 1.1 | |
| OHR | 40.62 | 280 | iPd | 22 | 50.60 | 0.7 | | | ePcP | 25 | 08.00 | | | LBF | 47.74 | 297 | iPc | 23 | 46.20 | -1.0 | |
| | 1.1s | 0.14nm | | | | 2.6mb X | MEM | 44.74 | 300 | iPc | 23 | 23.44 | 0.2 | | 0.6s | 22.50nm | | | | 5.5mb | |
| BLS1 | 40.69 | 312 | iPc | 22 | 50.50 | 0.2 | AZI | 44.77 | 286 | P | 23 | 24.40 | 0.7 | CALN | 47.80 | 292 | P | 23 | 47.41 | -0.4 | |
| SDA | 40.96 | 282 | iPc | 22 | 53.30 | 0.7 | PGD | 44.81 | 289 | iPc | 23 | 25.20 | 1.0 | SMF | 48.00 | 296 | iPc | 23 | 48.20 | -1.0 | |
| NNT | 41.03 | 148 | iPc | 22 | 54.00 | 0.6 | | | ePP | 25 | 07.30 | | | | 0.7s | 24.20nm | | | | 5.4mb | |
| BER | 41.07 | 314 | iP | 22 | 52.74 | -0.5 | OFUJ | 44.93 | 79 | P | 23 | 23.60 | -1.3 | FRF | 48.05 | 292 | iPc | 23 | 49.30 | -0.3 | |
| TIR | 41.09 | 281 | eP | 22 | 54.70 | 1.1 | FEL | 44.94 | 296 | P | 23 | 24.52 | -0.6 | | 0.7s | 105.00nm | | | | 6.1mb | |
| KHC | 41.09 | 295 | iPc | 22 | 54.70 | 1.1 | CHJJ | 45.01 | 84 | P | 23 | 24.80 | -0.9 | TDD | 48.08 | 230 | ePc | 23 | 51.29 | 1.2 | |
| | 0.9s | 89.50nm | | | | 5.5mb | MDI | 45.01 | 292 | P | 23 | 24.00 | -1.5 | AVF | 48.21 | 297 | iPc | 23 | 49.30 | -1.5 | |
| | | | | | | | MNS | 45.03 | 287 | Pc | 23 | 25.50 | -0.3 | | 0.8s | 47.20nm | | | | 5.7mb | |
| SHNJ | 41.11 | 92 | P | 22 | 54.30 | 0.4 | CDF | 45.10 | 297 | P | 23 | 25.76 | -0.6 | ATA | 48.22 | 230 | ePc | 23 | 52.38 | 1.2 | |
| SUE | 41.11 | 315 | eP | 22 | 53.22 | -0.3 | WLF | 45.12 | 299 | iPc | 23 | 26.50 | 0.2 | LMR | 48.26 | 291 | iPc | 23 | 51.00 | -0.2 | |
| PTJ | 41.18 | 289 | iPc | 22 | 54.50 | 0.0 | FIR | 45.14 | 289 | iPc | 23 | 27.50 | 0.9 | | 0.8s | 59.10nm | | | | 5.7mb | |
| BERA | 41.38 | 280 | eP | 22 | 55.00 | -1.0 | MME | 45.26 | 290 | Pd | 23 | 28.80 | 1.0 | LRG | 48.29 | 292 | iPc | 23 | 51.10 | -0.3 | |
| KMY | 41.51 | 312 | iP | 22 | 56.52 | -0.3 | RMP | 45.33 | 286 | Pc | 23 | 28.10 | 0.0 | | 0.8s | 69.80nm | | | | 5.8mb | |
| MOX | 41.55 | 298 | iPc | 22 | 58.00 | 0.7 | RDP | 45.35 | 286 | Pc | 23 | 28.60 | 0.2 | ARO | 48.34 | 230 | iP+ | 23 | 53.18 | 1.0 | |
| | 1.1s | 221.00nm | | | | 5.8mb | SOI | 45.36 | 280 | Pc | 23 | 28.70 | 0.3 | DAF | 48.43 | 231 | ePc | 23 | 53.60 | 0.8 | |
| | | | | | | | BDI | 45.39 | 290 | Pc | 23 | 28.70 | 0.0 | AKU | 48.50 | 327 | iP | 23 | 54.20 | 1.5 | |
| VLO | 41.80 | 280 | iP | 23 | 00.00 | 0.5 | BBS | 45.44 | 296 | P | 23 | 29.04 | 0.0 | | 0.9s | 127.73nm | | | | 6.0mb | |
| VBY | 41.81 | 289 | iPc | 23 | 00.20 | 0.7 | MOF | 45.46 | 296 | P | 23 | 28.81 | -0.4 | SGH | 48.52 | 230 | ePc | 23 | 54.67 | 1.1 | |
| SHK | 41.87 | 91 | iP | 23 | 00.20 | 0.1 | VAL | 45.53 | 293 | Pc | 23 | 28.50 | -1.1 | BGF | 48.63 | 297 | iPc | 23 | 53.50 | -0.5 | |
| | 0.9s | 87.39nm | | | | 5.5mb | UCC | 45.56 | 301 | P | 23 | 30.20 | 0.4 | | 1.0s | 65.60nm | | | | 5.7mb | |
| KUMJ | 41.94 | 94 | eP | 23 | 00.60 | -0.1 | MSI | 45.60 | 280 | Pd | 23 | 30.10 | -0.2 | CGL | 48.86 | 285 | P | 23 | 55.65 | -0.3 | |
| YONJ | 41.97 | 89 | eP | 22 | 59.60 | -1.4 | PII | 45.62 | 290 | Pc | 23 | 30.10 | -0.3 | IPM | 48.95 | 150 | ePc | 23 | 57.00 | 0.2 | |
| LJU | 41.98 | 290 | iPc | 23 | 01.30 | 0.4 | BSF | 45.67 | 296 | P | 23 | 30.52 | -0.4 | | 0.6s | 337.40nm | | | | 6.6mb | |
| | 1.0s | 340.00nm | | | | 6.0mb | KAKJ | 45.68 | 83 | P | 23 | 29.30 | -1.6 | | | | | | | 25 | 21.20 |
| | | | | | | | ATN | 45.68 | 280 | Pc | 23 | 30.60 | -0.4 | MAF | 48.97 | 297 | iPc | 23 | 56.50 | -0.2 | |
| KBA | 42.19 | 292 | iPc | 23 | 03.50 | 0.7 | BOB | 45.71 | 291 | Pc | 23 | 31.30 | 0.1 | | 0.9s | 76.70nm | | | | 5.7mb | |
| | 0.8s | 99.50nm | | | | 5.6mb | SNF | 45.74 | 301 | iPc | 23 | 31.20 | -0.1 | TCF | 49.14 | 297 | iPc | 23 | 57.00 | -1.0 | |
| | | | | | | | DOU | 45.78 | 300 | iPc | 23 | 31.40 | -0.1 | | 0.8s | 47.20nm | | | | 5.6mb | |
| CEY | 42.19 | 290 | iPc | 23 | 02.80 | 0.1 | | | PcP | 25 | 09.60 | | | LDF | 49.19 | 301 | iPc | 23 | 57.80 | -0.5 | |
| | | | | | | | HAU | 45.84 | 297 | iPc | 23 | 32.20 | 0.1 | | 0.6s | 85.90nm | | | | 5.9mb | |
| GRF | 42.20 | 297 | iPc | 23 | 04.00 | 1.3 | | 0.8s | 87.00nm | | | | 5.8mb | FLN | 49.30 | 301 | iPc | 23 | 58.40 | -0.7 | |
| | 0.9s | 177.00nm | | | | 5.8mb | LOMF | 45.90 | 296 | P | 23 | 32.56 | -0.1 | | 0.6s | 146.50nm | | | | 6.2mb | |
| HVAR | 42.26 | 286 | iPc | 23 | 01.80 | -1.4 | PIP | 45.93 | 118 | ePd | 23 | 35.00 | 2.0 | YRH | 49.32 | 307 | iPc | 23 | 58.60 | -0.6 | |
| RBL | 42.36 | 291 | Pc | 23 | 04.00 | -0.2 | VITF | 45.94 | 297 | P | 23 | 32.72 | -0.1 | | 0.8s | 130.00nm | | | | 6.0mb | |
| VOY | 42.37 | 291 | ePc | 23 | 03.40 | -0.8 | MAO | 45.95 | 288 | Pc | 23 | 32.80 | -0.2 | LSF | 49.56 | 297 | iPc | 24 | 00.20 | -1.0 | |
| | | | | | | | ORX | 46.12 | 293 | P | 23 | 32.64 | -1.8 | | 0.9s | 35.00nm | | | | 5.3mb | |
| TRI | 42.61 | 290 | Pc | 23 | 05.70 | -0.4 | ORO | 46.13 | 293 | P | 23 | 32.70 | -1.8 | GRR | 49.71 | 301 | iPc | 24 | 01.50 | -0.8 | |
| MRRJ | 42.68 | 75 | eP | 23 | 06.40 | -0.3 | GEN | 46.21 | 291 | P | 23 | 33.61 | -1.4 | | 0.6s | 38.70nm | | | | 5.5mb | |
| ABHA | 42.74 | 235 | eP | 23 | 08.00 | 0.3 | MNO | 46.31 | 280 | P | 23 | 36.50 | 0.3 | DMU | 49.90 | 310 | iPc | 24 | 03.20 | -0.5 | |
| FVI | 42.76 | 292 | Pc | 23 | 07.20 | -0.1 | ALE | 46.34 | 353 | iPc | 23 | 36.00 | 0.4 | | 0.7s | 264.00nm | | | | 6.3mb | |

12d 04h

| | | | | | | | | | | | | | | |
|------|-------|----------|----------|------|-------|---------|----------|----------|-------|--------|----------|----------|----------|------|
| MFF | 1.1s | 247.00nm | 6.1mb | FFC | 75.72 | 0 iPc | 26 55.20 | -0.2 | BRK | 90.63 | 16 eP | 28 13.50 | 1.2 | |
| | 50.31 | 298 iPc | 24 06.30 | -0.6 | | 0.6s | 155.00nm | 6.3mb | BKS | 90.63 | 16 iPd | 28 13.90 | 1.6 | |
| | 0.6s | 81.00nm | 5.8mb | EDM | 76.72 | 7 iPc | 27 01.20 | 0.0 | | 0.8s | 50.00nm | 5.9mb | | |
| DCN | 50.39 | 309 iPc | 24 07.10 | -0.3 | | 0.5s | 352.00nm | 6.7mb | GLD | 90.64 | 3 P | 28 13.80 | 1.3 | |
| | 0.8s | 395.00nm | 6.4mb | MTN | 77.52 | 128 iPd | 27 05.20 | -0.7 | | 1.2s | 76.77nm | 5.9mb | | |
| ECP | 50.57 | 307 iPc | 24 07.90 | -0.9 | | 0.5s | 30.00nm | 5.7mb | GOL | 90.68 | 3 P | 28 13.20 | 0.4 | |
| | 0.9s | 278.00nm | 6.2mb | KNA | 78.81 | 131 iPc | 27 12.60 | -0.4 | | 1.0s | 125.00nm | 6.2mb | | |
| LPO | 50.65 | 296 iPc | 24 09.70 | 0.2 | | 0.7s | 97.00nm | 6.0mb | MNA | 90.76 | 13 eP | 28 14.40 | 1.3 | |
| | 0.8s | 152.10nm | 6.0mb | NANU | 79.20 | 146 iPc | 27 15.40 | 0.4 | CMB | 90.80 | 15 ePc | 28 14.00 | 0.8 | |
| ECB | 50.68 | 308 iPc | 24 09.10 | -0.5 | | 0.6s | 68.00nm | 5.8mb | PCC | 90.97 | 17 eP | 28 14.70 | 0.9 | |
| | 0.9s | 326.00nm | 6.3mb | CBM | 79.35 | 338 iPc | 27 15.90 | 0.3 | TNP | 91.24 | 13 iP | 28 16.40 | 1.0 | |
| ETER | 51.05 | 292 eP | 24 11.70 | -0.9 | RSON | 79.39 | 355 P | 27 15.00 | -0.8 | MHC | 91.26 | 16 eP | 28 16.60 | 1.2 |
| PPR | 51.92 | 126 ePd | 24 21.00 | 1.6 | | 0.9s | 210.00nm | 6.1mb | NAV | 91.27 | 344 eP | 28 15.10 | -0.2 | |
| | 1.0s | 110.00nm | 5.7mb | MBL | 79.58 | 141 iPc | 27 16.80 | -0.3 | ARN | 91.27 | 16 iP | 28 16.50 | 1.2 | |
| EPF | 52.11 | 294 iPc | 24 19.20 | -1.5 | | 0.5s | 99.00nm | 6.0mb | BLA | 91.30 | 343 P | 28 16.00 | 0.5 | |
| | 0.8s | 99.60nm | 5.8mb | SES | 79.71 | 6 iPc | 27 17.60 | 0.0 | | 1.2s | 59.70nm | 5.8mb | | |
| KGM | 52.12 | 148 ePc | 24 21.60 | 0.7 | | 0.7s | 219.00nm | 6.2mb | GCC | 91.50 | 16 eP | 28 17.20 | 0.9 | |
| ESEL | 52.56 | 290 eP | 24 24.20 | 0.2 | PNT | 79.89 | 12 iPc | 27 18.70 | 0.1 | FORR | 91.57 | 139 iPd | 28 16.00 | -0.3 |
| BRW | 52.83 | 19 iPc | 24 25.50 | -0.1 | | 0.8s | 98.00nm | 5.8mb | | 0.4s | 54.00nm | 6.2mb | | |
| PPI | 53.51 | 153 ePd | 24 29.40 | -1.9 | PGC | 79.96 | 15 eP | 27 20.00 | 1.1 | CTA | 91.62 | 120 iPc | 28 16.30 | -0.6 |
| | 1.0s | 526.90nm | 6.5mb | MCW | 80.04 | 14 iP | 27 19.90 | 0.5 | | 0.9s | 43.28nm | 5.8mb | | |
| MBC | 53.57 | 5 iPc | 24 30.60 | -0.4 | TIC | 80.94 | 270 P | 27 24.50 | -0.1 | KIM | 91.79 | 225 iPc | 28 16.00 | -1.6 |
| | 0.6s | 251.00nm | 6.4mb | KIC | 80.97 | 269 P | 27 24.84 | 0.0 | SAO | 91.86 | 16 eP | 28 19.00 | 1.0 | |
| ECRI | 54.04 | 296 eP | 24 35.00 | 0.0 | | 0.6s | 117.00nm | 6.1mb | FRI | 91.93 | 15 ePc | 28 19.20 | 0.9 | |
| ETOR | 54.88 | 294 iPc | 24 40.40 | -0.9 | GMW | 81.14 | 15 iPc | 27 26.40 | 1.2 | FVM | 91.95 | 351 P | 28 18.00 | -0.3 |
| ECHE | 55.00 | 292 eP | 24 41.90 | -0.2 | MIM | 81.16 | 338 iP | 27 25.80 | 0.5 | | 1.1s | 25.61nm | 5.5mb | |
| GDH | 56.08 | 341 iPd | 24 48.20 | -1.2 | EMM | 81.24 | 336 eP | 27 26.30 | 0.6 | LLA | 92.09 | 16 eP | 28 20.60 | 1.5 |
| | 0.7s | 98.63nm | 5.9mb | LIC | 81.26 | 269 P | 27 26.20 | -0.1 | PRN | 92.19 | 11 P | 28 21.00 | 1.3 | |
| | | i | 25 01.00 | | RMW | 81.38 | 14 iP | 27 27.50 | 0.9 | PRS | 92.29 | 16 eP | 28 21.30 | 1.3 |
| GUD | 56.23 | 295 iPc | 24 50.50 | -0.6 | DPW | 81.49 | 11 P | 27 27.80 | 0.7 | FRS | 92.39 | 224 eP | 28 20.00 | -0.2 |
| EMON | 56.29 | 299 iPc | 24 51.00 | -0.3 | LON | 82.07 | 14 iPc | 27 30.90 | 0.7 | | 0.4s | 8.47nm | 5.5mb | |
| TSM | 56.33 | 131 ePd | 24 51.10 | -0.7 | BMW | 82.11 | 15 iP | 27 31.60 | 1.2 | ELC | 92.52 | 350 eP | 28 21.20 | 0.2 |
| | 1.0s | 457.70nm | 6.5mb | GAC | 82.15 | 342 ePc | 27 30.80 | 0.3 | PRI | 92.60 | 16 eP | 28 23.20 | 1.6 | |
| EALH | 56.38 | 291 eP | 24 51.50 | -0.5 | BNH | 82.30 | 339 iPc | 27 32.20 | 0.9 | YMT3 | 92.63 | 12 P | 28 22.10 | 0.5 |
| TOL | 56.65 | 294 iPc | 24 53.50 | -0.5 | SHW | 82.55 | 15 eP | 27 34.00 | 1.3 | AMR | 93.00 | 12 P | 28 24.80 | 1.5 |
| | 1.1s | 139.24nm | 5.9mb | BUL | 82.64 | 227 iPd | 27 33.10 | -0.3 | TKL | 93.39 | 346 iPc | 28 25.10 | 0.0 | |
| ERUA | 56.84 | 298 iPc | 24 55.20 | -0.1 | | 0.9s | 50.84nm | 5.7mb | CLC | 93.41 | 13 eP | 28 27.00 | 1.8 | |
| STS | 57.33 | 299 eP | 24 58.20 | -0.5 | RSNY | 83.07 | 341 P | 27 36.00 | 0.7 | GBTN | 93.45 | 346 eP | 28 25.10 | -0.2 |
| IMA | 57.60 | 23 iPc | 24 59.90 | -0.6 | | 0.8s | 126.76nm | 6.2mb | PCO | 93.67 | 357 eP | 28 27.00 | 0.7 | |
| | 1.0s | 400.00nm | 6.4mb | PTN | 83.14 | 341 iPc | 27 36.40 | 0.8 | | 0.7s | 8.90nm | 5.2mb | | |
| EBAN | 57.60 | 292 iPc | 25 00.40 | -0.3 | VGB | 83.44 | 14 iP | 27 38.40 | 1.2 | RSCP | 93.72 | 347 P | 28 26.10 | -0.5 |
| EPLA | 57.72 | 295 iPc | 25 01.30 | -0.3 | PMG | 83.64 | 113 eP | 27 39.00 | 0.5 | | 1.0s | 12.00nm | 5.2mb | |
| AFC | 58.05 | 291 eP | 25 02.20 | -1.8 | MEKA | 84.00 | 145 iPc | 27 39.60 | -0.5 | ACO | 93.73 | 358 ePc | 28 27.90 | 1.3 |
| ASMO | 58.10 | 291 iPc | 25 03.00 | -1.3 | | 0.6s | 47.00nm | 5.9mb | | 1.0s | 14.80nm | 5.3mb | | |
| CRT | 58.12 | 291 iPd | 25 03.80 | -0.6 | LRM | 84.14 | 8 eP | 27 40.60 | -0.5 | LHS | 94.03 | 343 eP | 28 28.30 | 0.3 |
| ACHM | 58.32 | 291 iPd | 25 04.50 | -1.3 | WB5 | 85.10 | 129 iPc | 27 46.00 | 0.3 | GSC | 94.03 | 13 eP | 28 29.00 | 0.9 |
| APHE | 58.33 | 291 iPc | 25 04.90 | -1.1 | WRA | 85.14 | 129 P | 27 44.50 | -1.4 | RLO | 94.11 | 355 iPc | 28 28.40 | 0.1 |
| AAPN | 58.36 | 292 iPc | 25 04.50 | -1.7 | | 0.5s | 51.50nm | 6.0mb | JSC | 94.31 | 343 iP | 28 29.50 | 0.2 | |
| ALOJ | 58.48 | 291 iPd | 25 05.50 | -1.5 | WB2 | 85.14 | 129 iPc | 27 46.00 | 0.1 | LNO | 94.40 | 356 ePc | 28 30.50 | 1.0 |
| ATEJ | 58.56 | 291 iPd | 25 06.00 | -1.6 | MRWA | 85.46 | 148 iPd | 27 47.20 | -0.1 | | | e | 28 34.10 | |
| EHOR | 58.70 | 293 iPc | 25 08.00 | -0.4 | ELF | 85.64 | 346 P | 27 48.50 | 0.2 | | | e | 28 37.80 | |
| TAF | 58.97 | 288 i(P) | 25 10.00 | -0.4 | LDN | 85.77 | 345 P | 27 49.20 | 0.3 | | | e | 28 48.10 | |
| KLI | 59.07 | 149 eP | 25 08.50 | -2.5 | DLA | 86.01 | 346 P | 27 50.30 | 0.2 | TUL | 94.40 | 356 iP | 28 30.20 | 0.5 |
| | | e | 25 27.00 | | TBR | 86.26 | 340 iP | 27 51.50 | 0.1 | | 1.2s | 47.30nm | 5.7mb | |
| EPRU | 59.25 | 292 iPc | 25 11.50 | -0.8 | WARB | 86.88 | 138 iPc | 27 47.00 | -7.4x | | | e | 28 35.00 | |
| TTA | 59.48 | 26 iPc | 25 13.20 | -0.4 | | 0.3s | 4.00nm | 5.1mb | OLY | 94.50 | 352 eP | 28 29.90 | -0.3 | |
| INK | 59.66 | 13 iPc | 25 14.40 | -0.2 | BAL | 86.98 | 148 eP | 27 56.00 | 1.2 | SIO | 94.59 | 356 ePc | 28 30.60 | 0.1 |
| | 0.6s | 165.00nm | 6.3mb | | 0.7s | 31.00nm | 5.6mb | PWLA | 94.66 | 349 eP | 28 30.50 | -0.4 | | |
| EJIF | 59.74 | 292 iPc | 25 14.00 | -1.6 | PRIN | 87.11 | 340 iP | 27 55.50 | 0.0 | PRM | 94.70 | 344 eP | 28 31.00 | -0.1 |
| EVAL | 59.74 | 294 iPc | 25 15.20 | -0.4 | BW06 | 87.39 | 6 P | 27 57.00 | -0.2 | OCO | 94.86 | 357 eP | 28 33.00 | 1.2 |
| FBA | 59.97 | 21 iPc | 25 16.60 | -0.2 | | 1.0s | 20.00nm | 5.3mb | MWC | 94.91 | 14 eP | 28 33.00 | 0.7 | |
| ADK | 60.13 | 44 iPc | 25 17.90 | -0.2 | FHC | 87.47 | 17 eP | 27 59.00 | 1.7 | VVO | 94.97 | 355 ePc | 28 32.50 | 0.2 |
| IFR | 61.51 | 289 iPc | 25 27.00 | -0.9 | WDC | 87.95 | 16 iPc | 28 00.20 | 0.6 | FKO | 95.12 | 357 iPc | 28 33.80 | 0.8 |
| NAI | 62.37 | 229 iPd | 25 33.60 | -0.2 | ASPA | 88.05 | 131 iPc | 28 00.20 | 0.1 | | 0.7s | 20.00nm | 5.7mb | |
| | 0.8s | 18.66nm | 5.4mb | | | 0.8s | 136.00nm | 6.3mb | SGS | 95.22 | 343 eP | 28 34.00 | 0.5 | |
| PMR | 62.43 | 24 iPc | 25 32.30 | -1.2 | MUN | 88.06 | 149 iPc | 27 59.40 | -0.5 | RVR | 95.24 | 13 eP | 28 33.00 | -0.6 |
| | 0.7s | 157.10nm | 6.4mb | | 0.8s | 63.00nm | 6.0mb | TPC | 95.32 | 12 eP | 28 35.00 | 1.0 | | |
| TOA | 62.73 | 22 iPc | 25 35.30 | -0.3 | KLB | 88.24 | 147 iPc | 28 00.30 | -0.5 | PEC | 95.37 | 13 eP | 28 34.70 | 0.5 |
| AVE | 63.05 | 290 iP | 25 37.50 | -0.4 | | 0.6s | 17.00nm | 5.5mb | ALO | 95.38 | 4 eP | 28 35.80 | 1.3 | |
| FRB | 63.79 | 344 ePc | 25 41.80 | -0.6 | MIN | 88.34 | 15 e(P) | 28 02.10 | 0.4 | | 1.0s | 12.25nm | 5.3mb | |
| | 0.8s | 138.00nm | 6.2mb | OIS | 88.37 | 125 iPc | 28 01.00 | -0.7 | HBF | 95.45 | 342 eP | 28 34.90 | 0.4 | |
| SDN | 64.06 | 33 eP | 25 42.10 | -2.2 | | 0.5s | 29.00nm | 5.8mb | MEO | 95.63 | 358 iPc | 28 35.80 | 0.4 | |
| TRT | 64.53 | 142 iPc | 25 46.60 | -1.1 | LTCM | 88.39 | 16 eP | 28 02.00 | 0.3 | | 0.7s | 12.00nm | 5.5mb | |
| | 0.7s | 146.70nm | 6.3mb | COOL | 88.82 | 145 iPc | 28 03.40 | -0.3 | PLMPL | | | | | |

SPA 139.73 180 e(PKP) 34 27.00 -10.2X
1.0s 14.50nm
FCH 151.79 294 ePKP 35 06.00 7.6X
PEL 151.90 295 iPKPd 35 05.60 7.4X
TACH 152.41 295 ePKP 35 06.00 7.1X
S.D. = 0.9 on 452 of 462 obs.

? FEB 12, 1989 04h 22m 26.85±7.68s
33.548 S ±25.6km 72.461 W ±57.7km
DEPTH = 18.1 ± 7.4 km
OFF COAST OF CENTRAL CHILE (134)

LCCH 0.75 85 iPc 22 41.00 0.0
iS 22 46.60
TACH 1.28 95 iPd 22 49.50 -0.3
iS 23 02.00
ROCH 1.34 65 ePd 22 50.50 -0.4
SAN 1.51 87 eP 22 52.90 -0.1
PEL 1.54 75 iPd 22 53.50 -0.1
iS 23 10.50
PCH 1.63 93 iPd 22 55.00 0.1
iS 23 13.50
JACH 1.79 62 iPc 22 57.50 0.3
iS 23 15.00
FCH 1.83 84 iP 22 58.50 0.5
iS 23 17.00
S.D. = 0.4 on 8 of 8 obs.

FEB 12, 1989 05h 57m 05.24±0.26s
2.357 N ± 5.3km 126.634 E ± 8.0km
DEPTH = 33.0km (normal)
4.6mb (9 obs.)
MOLUCCA PASSAGE (266)

MNI 2.01 243 iPd 57 43.70 6.2X
iS 58 14.40
TSM 8.75 282 ePd 59 50.00 37.5X
KNA 18.11 173 eP 01 06.00 -10.1X
QIZ 23.34 316 eP 02 12.00 0.4
WB5 23.37 161 iPc 02 11.70 -0.2
WRA 23.42 161 Pc 02 11.90 -0.5
0.6s 17.20nm 4.7mb
WB2 23.42 161 iPc 02 11.70 -0.8
MBL 24.30 196 eP 02 22.00 1.0
0.5s 4.00nm 4.2mb
QIS 26.08 151 eP 02 37.00 -0.8
ASPA 26.82 165 iPc 02 43.70 -0.9
0.8s 14.00nm 4.6mb
NANU 27.04 203 eP 02 47.50 1.0
WAR8 28.37 180 eP 02 52.40 -6.2X
LOE 28.67 303 eP 03 01.00 -0.4
CTA 29.47 140 iPc 03 08.50 -0.1
1.0s 9.00nm 4.5mb
MEKA 29.85 195 eP 03 12.30 0.4
WHN 30.35 339 eP 03 17.50 1.2
BDT 30.91 300 eP 03 20.80 -0.6
CHG 31.66 303 iPd 03 28.00 -0.1
1.1s 3.16nm 4.1mb
FORR 33.05 178 eP 03 39.00 -0.9
XAN 35.60 334 eP 04 00.40 -1.5
CD2 35.70 325 eP 04 01.70 -1.1
STK 36.89 159 eP 04 12.70 -0.1
TIY 37.53 341 eP 04 17.40 -0.7
Z 30s 0.90um 4.4MszX
BJI 38.69 347 eP 04 28.00 0.3
ADE 38.82 164 eP 04 30.10 1.1
BRS 38.85 141 iPc 04 28.20 -1.1
SNY 39.39 356 Pc 04 35.60 2.1
LZH 39.64 331 eP 04 37.00 1.1
1.5s 41.00nm 5.0mb
SHL 40.62 308 iP 04 44.40 0.2
COO 40.65 146 iPc 04 44.70 0.5
BWA 41.93 153 eP 04 55.90 1.3
CAN 42.94 153 eP 05 03.50 0.7
LSA 43.28 313 P 05 07.30 1.1
GTA 44.22 330 eP 05 12.50 -0.8
GUN 46.46 307 P 05 30.70 -0.9
PKI 46.69 306 P 05 35.10 1.7
KKN 46.89 307 P 05 34.40 -0.4
DMN 46.95 306 P 05 35.20 -0.2
GKN 47.49 307 P 05 39.00 -0.5
HYB 49.50 291 eP 05 54.00 -1.0
GBA 49.88 286 Pc 05 56.90 -1.0
0.8s 7.30nm 4.8mb
MSZ 59.53 147 eP 07 07.00 -0.7
AVY 80.28 250 eP 09 16.45 1.3
BRW 83.50 18 eP 09 31.50 0.8

IMA 83.67 24 eP 09 32.50 0.6
0.7s 3.60nm 4.6mb
PMR 85.19 29 eP 09 38.60 -0.7
1.3s 14.20nm 5.0mb
INK 91.47 21 eP 10 08.00 -1.2
PEL 145.34 154 iPKPd 16 42.70 0.7
S.D. = 0.9 on 44 of 48 obs.

FEB 12, 1989 06h 00m 10.69±0.40s
2.245 N ± 6.4km 126.752 E ±10.9km
DEPTH = 33.0km (normal)
4.6mb (6 obs.)
MOLUCCA PASSAGE (266)

MNI 2.07 247 iPd 00 46.50 2.7
iS 01 14.50
KNA 17.99 174 eP 04 20.00 0.0
WB5 23.22 162 iPc 05 15.50 -0.5
eS 09 26.00
WRA 23.27 162 Pc 05 16.20 -0.3
0.3s 7.40nm 4.7mb
WB2 23.28 162 iPc 05 15.50 -1.0
eS 09 26.00
MBL 24.23 196 iPd 05 25.80 0.1
0.5s 7.00nm 4.5mb
QIS 25.93 152 eP 05 41.00 -0.9
ASPA 26.68 165 iPc 05 48.60 -0.2
0.4s 26.00nm 5.2mb
eS 10 23.60
NANU 26.98 203 eP 05 51.00 -0.5
0.4s 6.00nm 4.6mb
WARB 28.26 180 eP 05 56.90 -6.2X
LOE 28.83 303 eP 06 07.00 -1.3
MEKA 29.77 195 eP 06 16.00 -0.7
FORR 32.93 178 eP 06 43.00 -1.3
0.4s 47.00nm 5.7mb X
MAT 35.73 16 eP 07 06.00 -2.4
XAN 35.75 334 eP 07 06.70 -1.9
CD2 35.86 325 eP 07 08.00 -1.6
TIY 37.67 341 eP 07 27.10 2.3
BRS 38.68 141 iPc 07 33.20 -0.2
BJI 38.83 347 eP 07 35.00 0.7
SNY 39.51 356 eP 07 41.50 1.5
LZH 39.79 330 eP 07 40.00 -2.6
COO 40.50 146 eP 07 49.00 0.7
BWA 41.78 153 eP 08 00.00 1.2
MDJ 42.27 3 eP 08 03.50 0.9
CAN 42.78 153 eP 08 07.30 0.3
HYB 49.65 291 eP 09 00.00 -1.6
GBA 50.03 286 Pc 09 02.70 -1.8
0.9s 3.40nm 4.4mb
AVY 80.35 251 iPc 12 23.80 2.8
IMA 83.72 24 eP 12 38.90 1.3
1.2s 9.80nm 4.8mb
PMR 85.23 29 eP 12 45.50 0.5
INK 91.53 22 eP 13 16.00 1.1
KJF 91.93 334 eP 13 18.00 1.1
SUF 92.88 333 iP 13 21.60 0.4
MBC 93.39 13 eP 13 24.00 0.6
NUR 94.00 331 eP 13 27.00 0.6
S.D. = 1.4 on 34 of 35 obs.

& FEB 12, 1989 06h 47m 13.20s
38.822 N 122.775 W
DEPTH = 5.0km
NORTHERN CALIFORNIA (36)
<BRK>. ML 3.8 (BRK).
Mo=2.0*10**14 Nm (BRK). Felt (V)
at Loch Lomond and (III) at St.
Helena. Also felt at
Geyserville.

NWRM 0.37 194 iPd 47 20.90 0.2
BRK 1.03 157 eP 47 32.30 -0.8
eS 47 47.10
BKS 1.03 156 eP 47 32.33 -0.9
eS 47 47.50
ORV 1.23 53 eP 47 35.50 -1.1
PCC 1.36 167 eP 47 36.80 -1.9
LTCM 1.47 20 eP 47 38.20 -2.2
MHC 1.73 148 eP 47 41.85 -2.3
ARN 1.77 146 eP 47 43.00 -1.7
MIN 1.77 30 eP 47 43.40 -1.4
GCC 1.89 161 eP 47 43.90 -2.5
CMB 2.03 112 iPc 47 47.40 -1.2
SAO 2.31 152 eP 47 50.02 -2.5
LBFM 2.61 15 eP 47 57.00 0.0

KVN 3.65 85 eP 48 09.80 -2.0
14 obs. associated

FEB 12, 1989 07h 55m 47.52±0.20s
26.216 N ± 3.9km 96.866 E ± 3.2km
DEPTH = 33.0km (normal)
5.0mb (29 obs.) 4.4Msz (1 obs.)
(296)

BURMA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 17C
Centroid Location:
Origin Time 07:55:56.2 1.0
Lot 26.18N FIX; Lon 96.83E FIX
Dep 33.0 FIX Half-duration 1.5
Moment Tensor: Scale 10**16 Nm
Mrr=-3.42 0.94 Mtt=-3.05 0.78
Mff=-6.47 1.42 Mrt=-3.67 1.09
Mrff=-3.11 1.52 Mtf= 6.03 0.82
Principal Axes:
T Val= 9.55 Plg=37 Azm=151
N -0.04 52 344
P -9.51 6 246
Best Double Couple: Mo=9.5*10**16
NP1: Strike=295 Dip=60 Slip= 24
NP2: 193 69 148

KMI 5.41 100 Pn 57 10.50 2.3
Z 10s 17.80um
Pg 57 28.00
Sn 58 19.00
Sg 58 44.00
LSA 6.13 306 P 57 21.40 2.8
N 11s 11.90um
S 58 29.00
CHG 7.61 165 iPn 57 37.00 -2.0
iPg 58 09.40
iSn 58 58.00
iSg 59 40.10
CD2 7.65 51 eP 57 40.90 1.3
Z 10s 5.70um
GYA 8.79 86 P 57 55.00 -0.5
8DT 9.15 167 ePg 57 58.00 -2.2
eSg 00 38.60
LOE 9.86 152 ePg 58 09.00 -1.1
eSg 00 59.00
GUN 9.94 282 Pd 58 10.40 -1.1
PKI 10.32 280 Pd 58 14.60 -2.1
KKN 10.45 281 Pd 58 16.70 -1.7
DMN 10.59 280 Pd 58 18.10 -2.2
NST 10.92 163 eP 58 22.60 -2.0
GKN 11.04 282 Pd 58 23.80 -2.6
LZH 11.51 30 eP 58 31.50 -1.2
1.5s 110.00nm 5.8mb
Z 10s 4.20um
Lg 01 50.00
XAN 13.02 50 eP 58 49.80 -3.0X
N 10s 7.90um
GTA 13.39 10 eP 58 55.50 -2.3
Z 12s 10.40um
NNT 13.82 168 eP 59 04.00 0.6
e 02 32.50
QIZ 13.95 118 eP 59 05.30 0.2
N 12s 2.90um
E 14s 3.50um
GZH 15.30 98 eP 59 23.30 0.6
Z 10s 6.10um
WHN 15.98 70 P 59 30.50 -0.9
Z 12s 9.06um 4.9Msz
E 11s 5.92um
TIY 17.46 45 eP 59 48.80 -1.4
Z 12s 2.20um 4.4Msz
NDI 17.61 282 eP 59 48.00 -4.1X
eS 02 53.00
BTO 18.03 34 P 59 56.00 -1.3
N 10s 3.80um
E 10s 2.40um
HHC 19.02 36 eP 00 07.80 -1.5
S 03 22.50
N 10s 2.30um
S 03 43.00
WMQ 19.08 339 P 00 10.30 0.3
Z 13s 1.80um 4.1Msz
E 12s 2.00um
HYB 19.11 246 eP 00 09.70 -0.7
0.8s 53.90nm 4.8mb
SNG 19.27 169 eP 00 04.30 -8.0X

12d 08h

| | | | | | |
|------|-------|----------|-----|-------|-------------|
| | | eS | 03 | 46.00 | |
| | | eP | 06 | 17.60 | |
| QZH | 19.64 | 89 | eP | 00 | 16.50 0.1 |
| Z | 10s | 3.20um | | | |
| N | 16s | 15.50um | | | |
| TIA | 19.95 | 55 | P | 00 | 18.20 -1.5 |
| | | S | 04 | 05.00 | |
| NJ2 | 20.05 | 68 | eP | 00 | 20.50 -0.2 |
| N | 10s | 11.30um | | | |
| E | 10s | 4.10um | | | |
| BJI | 21.19 | 45 | eP | 00 | 32.50 0.2 |
| Z | 20s | 1.50um | | | 4.4MsZ |
| | | eS | 04 | 28.00 | |
| SSE | 21.87 | 72 | Pc | 00 | 40.00 0.7 |
| | 1.0s | 24.00nm | | | 4.6mb |
| Z | 10s | 3.30um | | | 5.0MsZ |
| E | 10s | 0.40um | | | |
| | | pP | 00 | 47.50 | 27kmX |
| | | i | 01 | 27.00 | |
| | | S | 04 | 40.00 | |
| IPM | 21.88 | 169 | ePd | 00 | 42.10 2.6 |
| | 1.0s | 27.70nm | | | 4.6mb |
| KSH | 21.89 | 312 | P | 00 | 43.00 3.4X |
| Z | 14s | 7.10um | | | 5.2MsZ |
| GBA | 22.12 | 239 | P | 00 | 41.60 -0.3 |
| POO | 22.59 | 255 | eP | 00 | 47.50 0.9 |
| | | iS | 04 | 52.00 | |
| BAG | 24.11 | 109 | eP | 01 | 07.00 5.5X |
| | 1.8s | 445.45nm | | | 5.7mb |
| | | eS | 05 | 37.50 | |
| KOD | 24.28 | 233 | eP | 01 | 07.00 3.7X |
| QCP | 25.40 | 112 | eP | 01 | 08.00 -5.6X |
| QUE | 26.62 | 285 | eP | 01 | 26.20 1.0 |
| | | eS | 06 | 14.00 | |
| SNY | 26.92 | 48 | Pd | 01 | 27.40 -0.1 |
| Z | 12s | 1.60um | | | 4.8MsZ |
| N | 10s | 0.70um | | | |
| E | 10s | 0.90um | | | |
| CN2 | 29.05 | 46 | P | 01 | 49.80 3.0X |
| Z | 16s | 1.50um | | | 4.7MsZ |
| | | eS | 06 | 33.00 | |
| MDJ | 32.09 | 47 | eP | 02 | 11.00 -2.6 |
| Z | 15s | 1.30um | | | 4.7MsZ |
| | | S | 07 | 24.00 | |
| MHI | 33.31 | 297 | iPc | 02 | 26.00 1.5 |
| | 0.9s | 90.76nm | | | 5.7mb |
| | | eS | 07 | 34.00 | |
| MAT | 36.52 | 63 | eP | 02 | 52.00 0.1 |
| | 0.9s | 8.40nm | | | 4.6mb |
| | | eS | 08 | 35.00 | |
| BBTK | 54.38 | 302 | eP | 05 | 14.00 0.4 |
| KJF | 57.66 | 331 | iP | 05 | 37.10 0.5 |
| | 1.0s | 40.00nm | | | 5.4mb |
| VRI | 58.16 | 309 | ePc | 05 | 41.00 0.6 |
| SUF | 58.22 | 329 | iP | 05 | 40.90 0.3 |
| | 0.5s | 6.60nm | | | 5.0mb |
| SOD | 58.49 | 335 | iP | 05 | 43.30 0.9 |
| WB5 | 58.52 | 138 | eP | 05 | 42.00 -1.2 |
| | | i | 05 | 44.90 | |
| WB2 | 58.56 | 138 | eP | 05 | 42.00 -1.5 |
| | | i | 05 | 44.90 | |
| KEV | 58.70 | 338 | eP | 05 | 45.00 1.1 |
| MLR | 58.75 | 309 | ePc | 05 | 45.00 0.3 |
| NUR | 58.83 | 327 | iP | 05 | 45.60 0.7 |
| Z | 17s | 1.10um | | | 5.0MsZ |
| | | LR | 33 | 00.00 | |
| ASPA | 61.18 | 141 | eP | 06 | 00.50 -0.9 |
| | 1.6s | 50.00nm | | | 5.4mb |
| BZS | 61.74 | 310 | eP | 06 | 04.50 -0.5 |
| SPC | 62.10 | 314 | iP | 06 | 07.70 0.1 |
| KRA | 62.17 | 315 | eP | 06 | 07.20 -0.6 |
| N | 22s | 1.80um | | | |
| QIS | 62.30 | 134 | eP | 06 | 10.00 1.0 |
| UPP | 62.36 | 326 | iP | 06 | 08.70 -0.2 |
| SKO | 62.53 | 306 | eP | 06 | 13.00 2.7 |
| OHR | 63.18 | 305 | eP | 06 | 13.50 -1.2 |
| SRO | 63.59 | 312 | iP | 06 | 17.70 0.5 |
| HFS | 64.29 | 327 | eP | 06 | 21.70 0.1 |
| | 0.6s | 9.10nm | | | 5.0mb |
| ZST | 64.32 | 313 | eP | 06 | 24.30 2.3 |
| KSP | 64.34 | 316 | ePc | 06 | 21.80 -0.3 |
| NB2 | 65.36 | 328 | P | 06 | 28.10 -0.5 |
| | 0.9s | 12.00nm | | | 5.0mb |
| AVY | 65.49 | 232 | eP | 06 | 32.40 2.2 |
| PRU | 65.61 | 315 | Pc | 06 | 30.50 0.2 |
| | | e | 06 | 56.50 | |
| BRG | 65.79 | 316 | iP | 06 | 31.40 0.0 |

| | | | | | |
|------|--------|---------|------|-------|------------------------------------|
| | 1.2s | 22.00nm | | 5.1mb | |
| | | i | 06 | 35.50 | |
| CLL | 66.28 | 317 | iP | 06 | 34.30 -0.2 |
| | 1.3s | 17.00nm | | | 5.0mb |
| KHC | 66.41 | 315 | iPc | 06 | 36.00 0.5 |
| CTA | 66.45 | 129 | eP | 06 | 37.00 1.0 |
| | 1.0s | 27.50nm | | | 5.3mb |
| LJU | 66.50 | 311 | eP | 06 | 36.30 0.2 |
| CEY | 66.65 | 311 | ePc | 06 | 36.90 -0.2 |
| VOY | 66.94 | 311 | eP | 06 | 38.20 -0.8 |
| MOX | 67.28 | 317 | eP | 06 | 41.00 0.0 |
| | 1.6s | 22.00nm | | | 5.0mb |
| GRF | 67.76 | 316 | eP | 06 | 44.70 0.6 |
| | 1.4s | 46.00nm | | | 5.4mb |
| PGD | 69.00 | 309 | P | 06 | 52.50 0.5 |
| FIR | 69.35 | 309 | eP | 06 | 55.00 1.1 |
| VAI | 70.42 | 312 | P | 06 | 58.50 -1.9 |
| CDP | 70.61 | 315 | eP | 07 | 01.50 -0.2 |
| WLF | 70.93 | 317 | iPc | 07 | 04.50 1.1 |
| ALE | 71.02 | 357 | eP | 07 | 04.00 0.5 |
| | 0.5s | 2.00nm | | | 4.4mb |
| BSF | 71.10 | 315 | eP | 07 | 04.40 -0.3 |
| FIN | 71.31 | 311 | P | 07 | 05.03 -0.9 |
| HAU | 71.33 | 315 | eP | 07 | 06.10 0.1 |
| ROB | 71.51 | 311 | P | 07 | 07.59 0.4 |
| LSD | 71.62 | 312 | P | 07 | 07.80 -0.2 |
| IMI | 71.62 | 310 | P | 07 | 07.49 -0.4 |
| LPG | 71.88 | 312 | iPc | 07 | 09.90 0.3 |
| | 0.8s | 13.40nm | | | 5.0mb |
| STV | 71.90 | 311 | P | 07 | 07.49 -2.0 |
| RRL | 72.04 | 312 | P | 07 | 11.18 0.6 |
| RMQ | 72.42 | 132 | eP | 07 | 14.00 1.3 |
| FRF | 72.59 | 310 | eP | 07 | 13.20 -0.3 |
| ADE | 72.60 | 145 | e(P) | 07 | 16.00 2.4 |
| LMR | 72.76 | 310 | eP | 07 | 14.20 -0.3 |
| LRG | 72.82 | 310 | iPc | 07 | 14.80 0.0 |
| | 0.8s | 11.80nm | | | 4.9mb |
| LOR | 73.16 | 315 | iPc | 07 | 16.70 -0.1 |
| LBF | 73.19 | 314 | eP | 07 | 16.60 -0.4 |
| SMF | 73.39 | 314 | iPc | 07 | 18.10 0.0 |
| | 0.8s | 10.70nm | | | 4.9mb |
| SSF | 73.46 | 315 | iPc | 07 | 18.50 0.0 |
| AVF | 73.66 | 314 | eP | 07 | 19.60 0.0 |
| | 1.0s | 14.00nm | | | 4.9mb |
| MAF | 74.37 | 314 | iPc | 07 | 24.40 0.6 |
| LSF | 75.03 | 314 | eP | 07 | 27.60 0.0 |
| LDF | 75.17 | 317 | eP | 07 | 28.30 0.0 |
| | 0.8s | 18.80nm | | | 5.1mb |
| CAF | 75.18 | 313 | iPc | 07 | 29.30 0.8 |
| | 0.7s | 4.40nm | | | 4.6mb |
| MBC | 75.34 | 8 | eP | 07 | 29.00 0.2 |
| RJF | 75.39 | 313 | eP | 07 | 30.50 0.8 |
| GRR | 75.70 | 317 | eP | 07 | 31.50 0.2 |
| | 0.8s | 14.50nm | | | 5.0mb |
| LPO | 75.85 | 313 | eP | 07 | 32.90 0.6 |
| LPF | 75.95 | 317 | eP | 07 | 33.10 0.3 |
| LF | 76.04 | 313 | eP | 07 | 34.10 0.7 |
| | 0.6s | 5.40nm | | | 4.7mb |
| COO | 77.19 | 134 | eP | 07 | 43.00 3.0X |
| BNG | 77.58 | 269 | iPd | 07 | 41.40 -1.1 |
| | 0.9s | 9.00nm | | | 4.8mb |
| BWA | 77.61 | 138 | eP | 07 | 43.70 1.5 |
| CAN | 78.58 | 139 | eP | 07 | 51.20 3.7X |
| INK | 78.76 | 17 | ePd | 07 | 48.10 0.2 |
| BUL | 80.66 | 242 | iPd | 07 | 58.20 -0.9 |
| | 0.8s | 12.31nm | | | 5.0mb |
| BPI | 84.34 | 237 | eP | 08 | 09.00 -9.0X |
| | 0.7s | 23.29nm | | | 5.5mb |
| PRY | 85.16 | 237 | iPc | 08 | 21.40 -0.7 |
| YKA | 88.09 | 14 | P | 08 | 36.20 0.5 |
| YKC | 88.13 | 14 | eP | 08 | 35.00 -0.9 |
| FRB | 89.61 | 354 | eP | 08 | 34.00 -8.8X |
| ZOBO | 162.88 | 302 | PKP | 15 | 49.00 0.5 |
| LPB | 163.02 | 302 | PKP | 15 | 51.00 2.6 |
| CNCB | 163.09 | 301 | PKP | 15 | 50.00 1.3 |
| | | | | | S.D. = 1.2 on 116 of 128 obs. |
| | | | | | FEB 12, 1989 08h 15m 18.06 ± 0.30s |
| | | | | | 2.198 S ± 4.4km 138.377 E ± 5.9km |
| | | | | | DEPTH = 33.0km (normal) |
| | | | | | 5.1mb (5 obs.) 4.3MsZ (1 obs.) |
| | | | | | WEST IRIAN |
| JAY | 2.35 | 98 | ePd | 15 | 55.00 -0.1 |
| MNDI | 6.57 | 127 | eP | 17 | 01.50 6.3X |
| PMG | 11.29 | 130 | eP | 18 | 00.00 -0.2 |
| MTN | 12.78 | 214 | eP | 18 | 20.00 -0.3 |

| | | | | | |
|------|--------|---------|------|-------|------------------------------------|
| | | eS | 20 | 36.00 | |
| KNA | 16.46 | 215 | eP | 19 | 08.00 -0.3 |
| WB5 | 18.01 | 192 | eP | 19 | 27.80 0.2 |
| | | e | 19 | 30.10 | |
| | | eS | 22 | 48.50 | |
| WB2 | 18.07 | 192 | eP | 19 | 27.80 -0.6 |
| | | e | 19 | 30.10 | |
| | | eS | 22 | 48.50 | |
| WRA | 18.07 | 192 | Pd | 19 | 32.40 4.0X |
| | 0.5s | 4.50nm | | | 3.9mb X |
| QIS | 18.29 | 176 | eP | 19 | 28.00 -3.1X |
| | | e | 22 | 48.00 | |
| CTA | 19.37 | 157 | iPd | 19 | 48.00 3.8X |
| | 0.9s | 16.39nm | | | 4.3mb |
| ASPA | 21.78 | 191 | iPc | 20 | 08.30 -0.8 |
| Z | 19s | 1.29um | | | 4.3MsZ |
| | | iS | 24 | 07.70 | |
| | | LR | 29 | 11.50 | |
| RMQ | 26.13 | 158 | eP | 20 | 55.00 4.0X |
| WARB | 26.38 | 204 | eP | 20 | 48.70 -4.7X |
| BRS | 28.59 | 152 | iPc | 21 | 15.00 1.5 |
| BWA | 33.40 | 165 | eP | 21 | 59.00 3.1X |
| CAN | 34.40 | 165 | eP | 22 | 08.10 3.6X |
| SSE | 36.93 | 335 | eP | 22 | 25.50 -0.4 |
| PSI | 39.74 | 277 | eP | 22 | 50.40 0.7 |
| | 0.9s | 24.20nm | | | 5.0mb |
| LOE | 41.05 | 300 | eP | 23 | 01.00 0.6 |
| NST | 41.77 | 296 | eP | 23 | 07.00 0.7 |
| GYA | 41.83 | 315 | P | 23 | 07.20 0.4 |
| XAN | 45.47 | 325 | Pc | 23 | 35.20 -0.9 |
| CD2 | 46.58 | 318 | eP | 23 | 45.30 0.4 |
| BJI | 46.70 | 337 | eP | 23 | 44.50 -1.1 |
| CN2 | 47.24 | 347 | Pd | 23 | 49.70 -0.2 |
| MDJ | 47.26 | 351 | eP | 23 | 49.00 -1.0 |
| LZH | 49.87 | 323 | eP | 24 | 10.50 -0.1 |
| | 1.0s | 37.00nm | | | 5.4mb |
| GTA | 54.46 | 324 | P | 24 | 44.70 -0.2 |
| GUN | 58.62 | 305 | P | 25 | 15.20 0.1 |
| PKI | 58.89 | 304 | P | 25 | 17.00 0.1 |
| KKN | 59.07 | 304 | P | 25 | 18.00 -0.1 |
| DMN | 59.15 | 304 | P | 25 | 18.70 0.0 |
| GKN | 59.68 | 304 | P | 25 | 22.20 0.0 |
| | 1.0s | 56.00nm | | | 5.6mb |
| GBA | 62.42 | 286 | Pd | 25 | 39.30 -1.3 |
| | 1.0s | 15.80nm | | | 5.1mb |
| WMO | 64.40 | 322 | iPc | 25 | 53.50 0.1 |
| MHI | 82.35 | 307 | iPc | 27 | 40.30 1.9 |
| INK | 91.32 | 22 | eP | 28 | 22.00 0.7 |
| CNCB | 147.85 | 127 | PKP | 35 | 06.00 6.0X |
| LPB | 147.91 | 126 | PKP | 35 | 06.00 6.1X |
| ZOBO | 148.03 | 126 | PKP | 35 | 06.00 5.7X |
| | | LR | 24 | 04.00 | |
| CCH | 148.96 | 130 | ePKP | 35 | 10.00 8.6X |
| | | | | | S.D. = 0.7 on 29 of 41 obs. |
| | | | | | FEB 12, 1989 08h 42m 53.13 ± 0.25s |
| | | | | | 57.379 N ± 9.0km 138.452 W ± 3.9km |
| | | | | | DEPTH = 10.0km (geophysicist) |
| | | | | | 4.7mb (19 obs.) |
| | | | | | NORTH ATLANTIC OCEAN (402) |
| STS | 21.39 | 122 | e(P) | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|--------|---------|--------|----|-------|--------|-------------------------------------|--------|---------|--------|----|---------|-------|-----------------------------------|---------|----------|-------|-------|-------|--------|-------|---------|----|----|-------|------|
| LPO | 24.91 | 106 | eP | 48 | 17.20 | 0.0 | SMF | 24.91 | 100 | eP | 55 | 43.50 | 0.7 | ASPA | 145.19 | 21 | ePKP | 24 | 57.10 | -0.1 | | | | | | |
| SMF | 25.02 | 99 | eP | 48 | 18.80 | 0.5 | | 0.9s | 6.50nm | | | 4.3mb | | RMQ | 149.25 | 357 | iPKPd | 24 | 47.20 | -16.4X | | | | | | |
| | 1.1s | 16.60nm | | | 4.6mb | | HAU | 25.42 | 95 | eP | 55 | 47.50 | -0.2 | CMS | 154.25 | 2 | ePKP | 25 | 30.00 | 19.3X | | | | | | |
| GUD | 25.20 | 119 | e(P) | 48 | 19.30 | -0.9 | CDF | 25.68 | 93 | eP | 55 | 50.70 | 0.5 | BWA | 157.16 | 357 | ePKP | 25 | 29.60 | 15.0X | | | | | | |
| CAF | 25.20 | 104 | eP | 48 | 20.80 | 0.7 | ALE | 26.41 | 352 | eP | 55 | 56.00 | -0.6 | CNB | 158.01 | 354 | iPKPd | 25 | 32.60 | 17.0X | | | | | | |
| HAU | 25.54 | 94 | eP | 48 | 24.80 | 1.6 | | 0.6s | 3.00nm | | | 4.2mb | | CAN | 158.03 | 355 | ePKP | 25 | 03.80 | -11.8X | | | | | | |
| CDF | 25.80 | 93 | eP | 48 | 27.00 | 1.3 | MBC | 34.40 | 335 | eP | 57 | 08.00 | 0.6 | S.D. = 0.8 on 20 of 28 obs. | | | | | | | | | | | | |
| TOL | 25.85 | 120 | eP | 48 | 25.00 | -1.1 | RSON | 34.97 | 286 | eP | 57 | 11.30 | -1.2 | FEB 12, 1989 10h 12m 01.75± 0.19s | | | | | | | | | | | | |
| BSF | 25.88 | 94 | eP | 48 | 28.10 | 1.6 | | 0.8s | 10.56nm | | | 4.8mb | | 57.295 N ± 6.4km 33.323 W ± 2.9km | | | | | | | | | | | | |
| | 1.1s | 16.60nm | | | 4.6mb | | YKC | 38.48 | 312 | eP | 57 | 42.00 | 0.1 | DEPTH = 10.0km (geophysicist) | | | | | | | | | | | | |
| MOX | 26.90 | 85 | e(P) | 48 | 36.00 | 0.2 | YKA | 38.52 | 313 | P | 57 | 42.60 | 0.3 | 4.9mb (41 obs.) | | | | | | | | | | | | |
| CLL | 27.30 | 83 | eP | 48 | 39.00 | -0.4 | ELC | 41.52 | 266 | eP | 58 | 07.30 | -0.1 | NORTH ATLANTIC OCEAN (402) | | | | | | | | | | | | |
| MBC | 34.37 | 335 | eP | 49 | 42.00 | 0.4 | INK | 41.88 | 327 | eP | 58 | 10.00 | 0.1 | GDH | 14.93 | 331 | eP | 15 | 28.00 | -6.3X | | | | | | |
| RSON | 34.86 | 286 | eP | 49 | 45.50 | -0.5 | EDM | 43.31 | 300 | ePc | 58 | 22.20 | 0.3 | | | i | | 15 | 40.00 | | | | | | | |
| | 1.0s | 11.00nm | | | 4.7mb | | LNO | 46.09 | 270 | e(P) | 58 | 47.70 | 3.5X | DMU | 15.27 | 92 | eP | | 15 | 38.10 | -0.6 | | | | | |
| BZS | 35.27 | 85 | eP | 49 | 49.00 | -0.6 | LRM | 47.79 | 292 | eP | 58 | 58.70 | 0.7 | DCN | 15.30 | 94 | eP | 15 | 45.00 | 5.9X | | | | | | |
| | | e | | | 57 | 14.50 | GLD | 48.35 | 281 | P | 59 | 03.00 | 0.7 | | 0.9s | 163.00nm | | | 5.4mb | | | | | | | |
| FFC | 36.90 | 296 | eP | 50 | 04.00 | 0.8 | | 1.0s | 24.00nm | | | 5.2mb | | DLE | 15.72 | 93 | eP | 15 | 51.70 | 7.1X | | | | | | |
| | 0.9s | 11.00nm | | | 4.6mb | | FBA | 48.36 | 329 | P | 59 | 03.00 | 1.2 | FRB | 18.30 | 305 | eP | 16 | 18.00 | 1.1 | | | | | | |
| SKO | 37.59 | 90 | eP | 50 | 08.00 | -1.2 | | 1.0s | 4.00nm | | | 4.4mb | | STS | 21.29 | 122 | e(P) | 16 | 51.00 | 0.6 | | | | | | |
| YKA | 38.45 | 312 | P | 50 | 16.60 | 0.5 | BW06 | 48.45 | 287 | P | 59 | 02.10 | -1.1 | FLN | 21.33 | 99 | eP | 16 | 49.40 | -1.3 | | | | | | |
| INK | 41.83 | 327 | eP | 50 | 44.00 | 0.1 | | 1.0s | 14.00nm | | | 5.0mb | | | 1.2s | 73.70nm | | | 4.9mb | | | | | | | |
| EDM | 43.22 | 300 | eP | 50 | 55.00 | -0.6 | GOL | 48.47 | 281 | P | 59 | 04.10 | 0.8 | GRR | 21.35 | 101 | eP | 16 | 50.40 | -0.5 | | | | | | |
| GLD | 48.24 | 281 | P | 51 | 37.00 | 1.1 | | 1.0s | 17.50nm | | | 5.1mb | | | 1.3s | 125.60nm | | | 5.1mb | | | | | | | |
| | 1.0s | 36.00nm | | | 5.4mb | | PNT | 48.84 | 300 | eP | 59 | 06.00 | 0.2 | EMON | 21.44 | 119 | e(P) | 16 | 51.60 | -0.3 | | | | | | |
| FBA | 48.31 | 329 | P | 51 | 36.00 | 0.1 | | 0.6s | 4.00nm | | | 4.6mb | | LPF | 21.47 | 102 | eP | 16 | 51.80 | -0.3 | | | | | | |
| | 1.1s | 7.50nm | | | 4.7mb | | IMA | 49.02 | 332 | eP | 59 | 07.70 | 0.6 | | 1.1s | 45.90nm | | | 4.8mb | | | | | | | |
| MEO | 48.33 | 271 | eP | 51 | 36.00 | -0.4 | DAU | 51.04 | 286 | eP | 59 | 23.00 | -0.1 | LDF | 21.63 | 99 | eP | 16 | 52.60 | -1.1 | | | | | | |
| | 1.5s | 29.90nm | | | 5.1mb | | ALQ | 52.57 | 278 | eP | 59 | 34.00 | -0.6 | | 1.1s | 36.10nm | | | 4.7mb | | | | | | | |
| BW06 | 48.35 | 287 | P | 51 | 36.50 | -0.3 | | 0.8s | 1.87nm | | | 4.1mb | | ERUA | 22.33 | 121 | e(P) | 17 | 08.70 | 7.9X | | | | | | |
| | 1.0s | 11.25nm | | | 4.9mb | | BMW | 52.57 | 300 | eP | 59 | 34.00 | -0.3 | NB2 | 22.79 | 62 | P | 17 | 05.60 | 0.4 | | | | | | |
| GOL | 48.36 | 281 | P | 51 | 36.00 | -0.9 | MSU | 52.92 | 285 | eP | 59 | 36.90 | -0.3 | | 1.4s | 52.80nm | | | 4.9mb | | | | | | | |
| | 1.2s | 28.69nm | | | 5.2mb | | PRN | 55.25 | 286 | P | 59 | 55.00 | 0.8 | MFF | 22.84 | 104 | eP | 17 | 04.80 | -1.0 | | | | | | |
| PNT | 48.75 | 300 | eP | 51 | 40.00 | 0.5 | KVN | 55.58 | 290 | P | 59 | 56.00 | -0.6 | | 1.1s | 21.40nm | | | 4.6mb | | | | | | | |
| DAU | 50.94 | 286 | eP | 51 | 56.80 | 0.1 | TNP | 55.86 | 289 | eP | 59 | 58.60 | 0.0 | SNF | 22.93 | 91 | P | 17 | 09.50 | 2.9 | | | | | | |
| ALQ | 52.46 | 278 | eP | 52 | 09.00 | 0.8 | YMT3 | 56.43 | 287 | P | 00 | 04.50 | 1.9 | DOU | 23.32 | 92 | P | 17 | 11.60 | 1.2 | | | | | | |
| | 1.3s | 6.25nm | | | 4.4mb | | MHI | 61.66 | 66 | eP | 00 | 39.00 | 0.1 | ENN | 23.69 | 89 | eP | 17 | 15.00 | 1.0 | | | | | | |
| BMW | 52.48 | 299 | eP | 52 | 08.10 | 0.1 | BNG | 66.52 | 121 | ePc | 01 | 09.00 | -1.7 | | 1.1s | 44.00nm | | | 4.9mb | | | | | | | |
| MSU | 52.82 | 285 | eP | 52 | 11.20 | 0.4 | | 0.3s | 5.00nm | | | 5.2mb | | MEM | 23.82 | 89 | Pc | 17 | 16.00 | 0.8 | | | | | | |
| PRN | 55.15 | 286 | P | 52 | 28.50 | 0.6 | KKN | 80.74 | 52 | P | 02 | 35.00 | 1.3 | LSF | 23.96 | 102 | eP | 17 | 16.10 | -0.5 | | | | | | |
| KVN | 55.47 | 290 | P | 52 | 30.00 | -0.3 | ASPA | 145.04 | 21 | iPKPd | 09 | 56.50 | -1.0 | | 0.9s | 18.00nm | | | 4.7mb | | | | | | | |
| YMT3 | 56.32 | 287 | P | 52 | 35.50 | -0.8 | | 0.9s | 15.00nm | | | | | TCF | 24.29 | 102 | eP | 17 | 20.10 | 0.2 | | | | | | |
| CM8 | 57.41 | 291 | P | 52 | 48.50 | 4.6X | WARB | 145.67 | 33 | ePKP | 09 | 52.00 | -6.5X | | 1.1s | 27.80nm | | | 4.8mb | | | | | | | |
| | 1.0s | 5.50nm | | | 4.5mb | | SPA | 147.22 | 180 | e(PKP) | 10 | 01.40 | 1.5 | WLF | 24.41 | 91 | P | 17 | 25.00 | 4.1X | | | | | | |
| MHI | 61.77 | 66 | eP | 53 | 13.00 | -1.1 | | 1.0s | 10.00nm | | | | | BGF | 24.46 | 100 | eP | 17 | 21.20 | -0.3 | | | | | | |
| BNG | 66.60 | 121 | ePc | 53 | 43.00 | -2.7 | BRS | 149.71 | 349 | iPKPc | 10 | 10.70 | 5.8X | | 0.8s | 16.10nm | | | 4.7mb | | | | | | | |
| | 0.9s | 9.00nm | | | 5.0mb | | | | | | | | | SSF | 24.50 | 99 | eP | 17 | 21.80 | -0.1 | | | | | | |
| WMQ | 67.84 | 42 | eP | 53 | 52.40 | -0.8 | S.D. = 0.8 on 43 of 46 obs. | | | | | | | | | | | | | MAF | 24.53 | 101 | eP | 17 | 22.00 | -0.2 |
| GTA | 75.88 | 36 | P | 54 | 40.00 | -1.2 | * FEB 12, 1989 10h 05m 18.11± 0.46s | | | | | | | | | | | | | | 1.1s | 43.90nm | | | 5.0mb | |
| BTO | 77.67 | 28 | eP | 54 | 51.00 | -0.1 | 57.232 N ± 17.1km 33.207 W ± 7.4km | | | | | | | | | | | | | LOR | 24.56 | 98 | eP | 17 | 22.30 | -0.2 |
| BJI | 79.64 | 23 | eP | 55 | 01.00 | -0.7 | DEPTH = 10.0km (geophysicist) | | | | | | | | | | | | | | 1.0s | 16.00nm | | | 4.6mb | |
| LZH | 80.18 | 34 | eP | 55 | 06.00 | 1.1 | 4.4mb (6 obs.) | | | | | | | | | | | | | RJF | 24.57 | 104 | eP | 17 | 22.70 | 0.1 |
| DMN | 80.93 | 52 | P | 55 | 09.00 | -0.1 | NORTH ATLANTIC OCEAN (402) | | | | | | | | | | | | | | 1.3s | 36.10nm | | | 4.9mb | |
| TIY | 81.00 | 27 | eP | 55 | 09.90 | 0.8 | GDH | 15.02 | 331 | iPc | 08 | 58.00 | 6.3X | AVF | 24.59 | 99 | eP | 17 | 22.50 | -0.2 | | | | | | |
| ASPA | 145.10 | 21 | iPKPd | 02 | 30.20 | -1.8 | | 1.0s | 20.00nm | | | 4.5mb | | | 1.2s | 23.80nm | | | 4.7mb | | | | | | | |
| | 1.2s | 16.00nm | | | | | FRB | 18.39 | 305 | eP | 09 | 36.00 | 1.6 | LBF | 24.80 | 98 | eP | 17 | 24.50 | -0.4 | | | | | | |
| WARB | 145.75 | 33 | ePKP | 02 | 25.90 | -7.2X | BGF | 24.39 | 100 | eP | 10 | 36.90 | -0.3 | | 1.1s | 34.10nm | | | 4.9mb | | | | | | | |
| SPA | 147.20 | 180 | iPKPc | 02 | 35.60 | 1.3 | | 0.8s | 5.30nm | | | 4.2mb | LPO | 24.82 | 106 | eP | 17 | 24.40 | -0.6 | | | | | | | |
| | 1.1s | 13.10nm | | | | | LOR | 24.49 | 98 | eP | 10 | 38.70 | 0.5 | | 1.2s | 35.70nm | | | 4.9mb | | | | | | | |
| BRS | 149.71 | 349 | e(PKP) | 02 | 28.00 | -11.3X | LBF | 24.73 | 98 | eP | 10 | 40.70 | 0.2 | SMF | 24.94 | 99 | eP | 17 | 25.90 | -0.2 | | | | | | |
| S.D. = 0.9 on 59 of 63 obs. | | | | | | | | 0.8s | 5.30nm | | | 4.3mb | GUD | 25.10 | 119 | e(P) | 17 | 28.00 | 0.1 | | | | | | | |
| FEB 12, 1989 08h 50m 18.72± 0.26s | | | | | | | MBC | 34.56 | 335 | eP | 12 | 08.00 | -0.2 | CAF | 25.11 | 104 | eP | 17 | 27.50 | -0.4 | | | | | | |
| 57.398 N ± 8.7km 33.239 W ± 4.0km | | | | | | | RSON | 35.03 | 286 | eP | 12 | 10.90 | -1.6 | | 1.2s | 14.80nm | | | 4.6mb | | | | | | | |
| DEPTH = 10.0km (geophysicist) | | | | | | | | 0.9s | 6.30nm | | | 4.5mb | TNS | 25.35 | 88 | eP | 17 | 34.30 | 4.2X | | | | | | | |
| 4.6mb (16 obs.) | | | | | | | BZS | 35.15 | 85 | ePc | 12 | 18.00 | 4.5X | HAU | 25.46 | 94 | eP | 17 | 31.10 | 0.0 | | | | | | |
| NORTH ATLANTIC OCEAN (402) | | | | | | | | | e | | 18 | 58.00 | | | 1.1s | 36.10nm | | | 5.0mb | | | | | | | |
| GDH | 14.86 | 331 | eP | 53 | 48.00 | -2.3 | YKA | 38.65 | 313 | P | 12 | 42.90 | 0.1 | CDF | 25.72 | 93 | eP | 17 | 33.50 | -0.1 | | | | | | |
| | | i | | | 53 | 57.00 | INK | 42.03 | 327 | eP | 13 | 10.00 | -0.5 | | 1.2s | 35.70nm | | | 4.9mb | | | | | | | |
| SCH | 18.77 | 276 | eP | 54 | 39.00 | -0.8 | EDM | 43.40 | 300 | eP | 13 | 22.00 | -0.1 | TOL | 25.74 | 120 | eP | 17 | 29.00 | -4.8X | | | | | | |
| GRR | 21.33 | 101 | eP | 55 | 07.70 | 0.0 | LRM | 47.87 | 292 | eP | 13 | 57.70 | -0.3 | BSF | 25.80 | 94 | eP | 17 | 34.80 | 0.4 | | | | | | |
| LPF | 21.45 | 102 | eP | 55 | 08.50 | -0.4 | GLD | 48.40 | 281 | eP | 14 | 03.30 | 1.2 | | 1.2s | 41.60nm | | | 5.0mb | | | | | | | |
| LSF | 23.94 | 103 | eP | 55 | 32.90 | -0.5 | | 1.2s | 52.53nm | | | 5.5mb X | ETOR | 25.97 | 116 | e(P) | 17 | 38.50 | 2.5 | | | | | | | |
| HFS | 24.09 | 64 | eP | 55 | 35.30 | 0.6 | MEO | 48.47 | 272 | eP | 14 | 03.10 | 0.6 | ALE | 26.51 | 352 | eP | 17 | 41.00 | 0.5 | | | | | | |
| | 0.5s | 1.00nm | | | 3.7mb | | | 0.9s | 6.00nm | | | 4.7mb | | 1.2s | 26.00nm | | | 4.8mb | | | | | | | | |
| TCF | 24.27 | 102 | eP | 55 | 36.50 | -0.2 | GOL | 48.51 | 281 | eP | 14 | 03.70 | 0.6 | MOX | 26.84 | 85 | eP | 17 | 45.00 | 1.2 | | | | | | |
| | 1.3s | 19.40nm | | | 4.6mb | | BW06 | 48.52 | 287 | eP | 14 | 02.00 | -1.1 | | 1.3s | 34.00nm | | | 4.9mb | | | | | | | |
| BGF | 24.44 | 101 | eP | 55 | 38.00 | -0.3 | | 1.2s | 3.42nm | | | 4.3mb | | | e | | | 18 | 23.00 | | | | | | | |
| | 0.8s | 12.00nm | | | 4.6mb | | DAU | 51.10 | 286 | eP | 14 | 23.10 | 0.1 | GRF | 27.14 | 87 | eP | 17 | 49.00 | 2.4 | | | | | | |
| SSF | 24.47 | 99 | eP | 55 | 38.50 | -0.1 | BMW | 52.67 | 300 | eP | 14 | 34.30 | -0.1 | | 1.5s | 61.00nm | | | 5.1mb | | | | | | | |
| MAF | 24.50 | 102 | eP | 55 | 38.90 | 0.0 | MSU | 52.98 | 285 | eP | 14 | 37.50 | 0.4 | LPG | 27.23 | 98 | eP | 17 | 48.00 | 0.2 | | | | | | |
| | 1.1s | 15.60nm | | | 4.6mb | | KVN | 55.65 | 290 | eP | 14 | 55.90 | -0.6 | CLL | 27.24 | 83 | eP | 17 | 45.00 | -2.4 | | | | | | |
| LOR | | | | | | | | | | | | | | | | | | | | | | | | | | |

12d 10h

KBA 29.81 90 e(P) 18 14.00 3.1X
1.1s 8.80nm 4.5mb
KRA 31.64 80 eP 18 24.00 -2.7
e 18 28.80
SRO 32.06 85 eP 18 31.70 1.3
SPC 32.29 81 eP 18 35.50 2.8
MBC 34.48 335 eP 18 51.00 -0.1
1.1s 28.00nm 5.1mb
RSON 34.95 286 eP 18 54.30 -1.1
0.9s 13.03nm 4.8mb
FFC 37.00 296 eP 19 12.50 -0.2
0.8s 10.00nm 4.6mb
SKO 37.52 90 iPc 19 17.30 0.1
OHR 37.77 92 eP 19 19.80 0.4
YKC 38.51 313 eP 19 24.50 -0.8
0.9s 15.00nm 4.7mb
YKA 38.56 313 P 19 25.70 0.0
FVM 41.61 268 P 19 51.00 -0.2
1.1s 9.76nm 4.4mb
INK 41.94 327 eP 19 52.00 -1.5
EDM 43.32 300 eP 20 05.00 0.0
SES 44.01 296 eP 20 11.00 0.3
RLO 45.44 270 e(P) 20 22.00 -0.3
LNO 46.04 270 eP 20 26.00 -0.3
LRM 47.78 292 eP 20 35.00 -6.0X
GLD 48.32 281 P 20 46.00 0.8
1.1s 77.15nm 5.7mb
MEO 48.40 271 eP 20 45.50 -0.1
1.3s 22.30nm 5.1mb
FBA 48.42 329 eP 20 45.70 0.4
BW06 48.44 287 P 20 44.50 -1.6
1.0s 12.75nm 4.9mb
GOL 48.44 281 P 20 46.50 0.3
1.0s 30.00nm 5.3mb
PNT 48.85 300 eP 20 50.00 1.1
0.9s 16.00nm 5.1mb
IMA 49.09 332 eP 20 50.70 0.1
0.8s 4.30nm 4.5mb
DPW 49.19 298 P 20 50.00 -1.6
DAU 51.03 286 eP 21 05.70 -0.3
PMR 51.35 327 P 21 08.00 0.2
1.2s 16.67nm 4.8mb
PWA 51.53 327 eP 21 09.60 0.5
ALQ 52.54 278 eP 21 17.70 0.3
1.3s 9.62nm 4.6mb
BMW 52.58 300 eP 21 16.50 -0.9
MSU 52.91 285 eP 21 20.00 -0.1
PRN 55.24 286 P 21 36.20 -0.9
KVN 55.57 290 P 21 40.00 0.4
MNA 56.07 289 eP 21 42.20 -0.9
YMT3 56.42 287 P 21 45.00 -0.6
WDC 56.65 294 eP 21 46.50 -0.5
AMR 56.74 287 P 21 48.00 0.1
KUK 57.12 140 eP 21 48.50 -2.1
CMB 57.50 291 e(P) 21 51.40 -1.8
FRI 57.96 289 eP 21 56.30 0.0
TPC 58.28 285 eP 22 01.00 2.3
ISA 58.34 288 eP 22 01.00 1.9
GLA 58.45 283 eP 22 01.00 1.1
RVR 59.06 286 eP 22 04.00 -0.1
PLM 59.29 285 P 22 08.00 2.1
BAR 59.71 284 eP 22 09.00 0.4
MHI 61.74 66 eP 22 22.00 -0.5
BNG 66.50 121 iPc 22 52.10 -1.5
1.0s 20.00nm 5.3mb
WMO 67.86 42 eP 23 01.40 -0.6
GTA 75.91 36 P 23 48.70 -1.3
MDJ 77.46 12 eP 23 58.00 -0.4
BTO 77.72 28 eP 24 00.00 0.0
HHC 77.86 27 eP 24 02.00 1.2
ZOB0 78.79 214 P 24 06.50 -0.2
LPB 79.03 214 (P) 24 08.00 0.2
CNCB 79.26 214 P 24 09.00 -0.2
BJI 79.69 23 eP 24 10.50 -0.1
ITA 79.93 191 eP 24 12.90 0.5
BMA 80.20 190 eP 24 14.50 1.0
LZH 80.21 34 eP 24 13.00 -0.7
2.0s 55.00nm 5.2mb
GKN 80.38 52 P 24 14.70 0.0
KKK 80.84 52 P 24 17.50 0.2
DMN 80.92 52 P 24 18.30 0.6
GUN 80.99 51 P 24 18.50 0.3
TIY 81.05 27 eP 24 18.30 0.3
XAN 83.60 31 eP 24 30.20 -1.0
CD2 84.98 36 eP 24 38.20 0.0
WHN 88.35 27 eP 24 49.50 -5.1X
GYA 90.03 35 P 25 03.00 0.1

ASPA 145.15 21 iPKPd 31 39.30 -1.4
1.1s 27.00nm
WARB 145.78 33 ePKP 31 34.70 -7.0X
SPA 147.12 180 iPKPd 31 35.90 -6.9X
0.9s 12.73nm
COOL 148.22 45 ePKP 31 48.00 2.5
0.9s 20.00nm
RMO 149.18 356 ePKP 31 52.00 4.8X
S.D. = 1.0 on 107 of 121 obs.
FEB 12, 1989 10h 15m 36.99±0.92s
63.975 N ± 8.5km 148.943 W ± 8.0km
DEPTH = 136.2 ± 20.4 km
CENTRAL ALASKA (1)
FBA 1.05 28 iPd 16 01.30 0.1
TOA 2.26 145 iPc 16 14.60 -0.4
PWA 2.37 191 eP 16 16.70 0.4
PMR 2.39 182 eP 16 17.10 0.5
TTA 3.34 255 iPd 16 28.60 -0.4
DWY 4.19 85 P 16 39.50 -0.6
SVW 4.22 230 eP 16 40.50 -0.2
KDC 6.48 197 eP 17 09.50 -1.6X
INK 7.60 48 ePd 17 26.80 0.6
S.D. = 0.6 on 8 of 9 obs.
* FEB 12, 1989 10h 20m 21.41±1.06s
15.793 S ± 10.7km 167.673 E ± 10.1km
DEPTH = 218.4 ± 9.3 km
4.7mb (9 obs.)
VANUATU ISLANDS (186)
PVC 2.03 163 iP 21 00.80 -1.1
iS 21 32.50
DZM 6.35 190 iPc 21 54.20 0.0
iS 23 13.00
VSG 10.13 309 eP 22 45.00 1.9
BRS 18.01 228 iPd 24 20.20 1.5
e 29 31.00
i 31 52.20
COO 20.63 222 iPd 24 47.90 2.7
0.6s 31.00nm 5.0mb
OIS 27.07 256 eP 25 45.00 -0.8
STK 28.62 231 iPc 26 01.20 1.5
TOO 29.24 218 eP 26 06.00 0.9
WB5 31.93 258 eP 26 27.50 -1.3
WB2 31.95 258 eP 26 27.50 -1.4
WRA 31.96 258 P 26 27.80 -1.2
0.8s 7.60nm 4.4mb
ASPA 32.68 251 iPd 26 34.70 -0.6
KNA 37.41 265 eP 27 14.40 -0.8
FORR 39.08 240 iPc 27 29.80 0.8
0.3s 12.00nm 5.0mb
WARB 39.53 248 eP 27 26.00 -6.8X
COOL 44.96 242 eP 28 16.00 -0.7
0.3s 6.00nm 4.5mb
MBL 45.56 256 eP 28 21.00 -0.4
0.4s 42.00nm 5.2mb
MEKA 46.81 248 iPd 28 31.60 0.3
KLB 47.93 242 eP 28 39.00 -0.8
0.4s 10.00nm 4.6mb
NWA0 48.55 240 iPc 28 44.40 -0.2
0.6s 20.00nm 4.7mb
BAL 48.72 243 eP 28 45.00 -0.9
MRWA 49.22 245 eP 28 49.00 -0.7
MUN 49.29 241 eP 28 50.00 -0.2
NANU 49.51 254 iPd 28 52.20 0.2
0.3s 9.00nm 4.7mb
GBA 93.85 283 P 33 15.40 0.0
0.6s 2.70nm 4.5mb
CDF 143.70 338 ePKP 39 28.20 -3.7X
FLN 145.72 346 ePKP 39 33.70 -1.5
LOR 145.86 340 ePKP 39 34.80 -0.7
0.7s 3.30nm
LBF 146.07 340 ePKP 39 35.30 -0.6
SSF 146.16 340 ePKP 39 35.70 -0.3
0.8s 4.50nm
LPG 146.32 336 ePKP 39 36.80 0.1
0.7s 3.70nm
LPF 146.53 346 ePKP 39 36.50 0.0
SBF 147.36 333 ePKP 39 38.60 0.5
0.8s 10.70nm
LSF 147.50 342 ePKP 39 39.10 0.9
BNG 147.63 253 iPKPd 39 41.10 1.7
0.3s 30.00nm
i 39 44.90

MFF 147.65 344 ePKP 39 39.50 1.1
S.D. = 1.1 on 34 of 36 obs.
FEB 12, 1989 11h 05m 53.78±0.25s
57.292 N ± 7.9km 33.535 W ± 3.5km
DEPTH = 10.0km (geophysicist)
5.2mb (46 obs.) 5.2Msz (2 obs.)
NORTH ATLANTIC OCEAN (402)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 75, 17C
Centroid Location:
Origin Time 11:05:54.3 2.3
Lat 56.41N 0.32 Lon 32.71W 0.27
Dep 15.0 FLX Half-duration 1.6
Moment Tensor; Scale 10**16 Nm
Mrr=-5.20 0.42 Mtt= 0.61 0.46
Mff= 4.59 0.46 Mrt= 2.87 1.07
Mrf= 4.25 1.51 Mtf= 2.88 0.51
Principal Axes:
T Val= 8.07 Plg=21 Azm=299
N -0.86 4 31
P -7.20 69 131
Best Double Couple:Ma=7.6*10**16
NP1:Strike= 22 Dip=24 Slip=-100
NP2: 212 66 -86
AKU 11.16 35 iP 08 41.90 5.8X
1.9s 905.26nm 6.8mb X
STJ 15.17 238 eP 09 29.00 -0.5
DMU 15.38 91 eP 09 26.70 -5.6X
DCN 15.42 94 eP 09 36.20 3.6X
DLE 15.84 93 eP 09 39.20 1.1
EKA 16.90 84 P 09 51.00 -0.6
2.0s 249.40nm 5.0mb
SCH 18.63 277 eP 10 13.00 -0.1
STS 21.39 122 e(P) 10 43.00 -0.4
FLN 21.45 99 eP 10 41.30 -2.6
1.7s 285.20nm 5.4mb
GRR 21.47 100 eP 10 42.50 -1.6
1.4s 273.50nm 5.5mb
EMON 21.54 119 e(P) 10 44.50 -0.4
LPF 21.59 101 eP 10 43.90 -1.4
1.4s 212.50nm 5.4mb
LDF 21.74 99 eP 10 44.50 -2.3
1.3s 118.40nm 5.1mb
ERUA 22.42 120 e(P) 10 55.00 1.2
NB2 22.89 62 P 10 58.80 0.6
1.2s 38.80nm 4.8mb
UCC 22.94 90 P 11 01.50 2.8
MFF 22.96 103 eP 10 56.70 -2.2
SNF 23.05 91 P 10 53.70 -6.1X
ed 10 59.60
MUD 23.08 74 eP 11 03.70 3.7X
1.0s 16.00nm 4.5mb
NRA0 23.10 62 P 11 02.40 2.1
WIT 23.21 84 eP 11 04.00 2.7
DOU 23.44 91 P 11 04.30 0.7
WTS 23.67 86 eP 11 07.50 1.7
1.3s 135.00nm 5.4mb
e 11 47.00
ENN 23.81 89 eP 11 06.50 -0.6
1.4s 200.00nm 5.5mb
MEM 23.93 89 P 11 02.20 -6.1X
ed 11 08.90
LSF 24.07 102 eP 11 08.90 -0.9
TCF 24.41 101 eP 11 11.90 -1.2
1.2s 72.50nm 5.2mb
LFF 24.52 105 eP 11 13.70 -0.4
1.4s 113.20nm 5.3mb
WLF 24.52 91 P 11 17.00 3.0X
BGF 24.57 100 eP 11 13.40 -1.3
1.3s 88.00nm 5.2mb
SSF 24.61 99 eP 11 13.70 -1.3
1.3s 66.40nm 5.1mb
MAF 24.64 101 eP 11 14.10 -1.2
LOR 24.67 98 eP 11 14.40 -1.2
1.3s 50.50nm 5.0mb
RJF 24.68 104 eP 11 14.80 -0.9
1.3s 64.90nm 5.1mb
AVF 24.70 99 eP 11 14.50 -1.3
1.5s 90.80nm 5.2mb
LBF 24.91 98 eP 11 16.50 -1.5
1.1s 69.30nm 5.3mb
LPO 24.93 105 eP 11 16.30 -1.8
1.2s 71.40nm 5.2mb
AGO 25.05 101 P 11 22.55 3.3X

| | | | | | | | | | | | | | | |
|------|-------|----------|----------|--------|------|-------|----------|----------|--------|------|------------------------|----------------------|----------|--------|
| SMF | 25.05 | 99 eP | 11 17.80 | -1.5 | BEO | 35.20 | 87 eP | 12 51.50 | 1.8 | PTZ | 88.96 | 119 iP | 18 55.00 | 5.2X |
| | 1.3s | 113.30nm | | 5.4mb | BZS | 35.32 | 85 eP | 12 51.00 | 0.3 | KMI | 90.06 | 39 eP | 18 54.00 | -1.2 |
| PYM | 25.18 | 101 P | 11 22.17 | 1.6 | MGR | 35.73 | 97 P | 12 56.00 | 1.8 | GYA | 90.10 | 35 P | 18 54.40 | -0.8 |
| GUD | 25.20 | 119 e(P) | 11 20.00 | -0.8 | GIB | 36.47 | 101 P | 13 03.00 | 2.4 | ASPA | 145.19 | 20 iPKPd | 25 30.10 | -2.7 |
| CAF | 25.22 | 104 eP | 11 19.70 | -1.2 | FAI | 36.81 | 102 P | 13 07.00 | 3.7X | | 1.4s | 33.00nm | | |
| | 1.2s | 35.70nm | | 4.9mb | FFC | 36.89 | 296 eP | 13 04.00 | 0.2 | WARB | 145.84 | 33 ePKP | 25 26.10 | -7.8X |
| VITF | 25.25 | 94 P | 11 22.72 | 1.7 | | 1.6s | 54.00nm | | 5.1mb | COOL | 148.30 | 44 ePKP | 25 39.00 | 1.3 |
| PLDF | 25.36 | 100 P | 11 23.89 | 1.6 | SKO | 37.64 | 90 iP | 13 08.50 | -1.7 | | S.D. = 1.4 | on 148 of 173 obs. | | |
| TNS | 25.46 | 88 ePc | 11 25.10 | 1.9 | | 1.3s | 150.00nm | | 5.6mb | | | | | |
| HAU | 25.57 | 94 eP | 11 23.70 | -0.5 | MLR | 37.73 | 82 ePc | 13 14.00 | 2.8 | | & FEB 12, 1989 | 11h 11m 37.92s | | |
| | 1.4s | 139.40nm | | 5.5mb | OHR | 37.88 | 91 eP | 13 12.20 | -0.2 | | 59.922 N | 153.107 W | | |
| EPF | 25.64 | 109 eP | 11 22.30 | -2.6 | VRI | 37.91 | 81 eP | 13 13.00 | 0.5 | | DEPTH = 114.4km | | | |
| | 1.3s | 46.90nm | | 5.0mb | VAY | 38.70 | 90 eP | 13 19.60 | 0.5 | | SOUTHERN ALASKA | | (2) | |
| GW | 25.70 | 91 P | 11 27.25 | 1.9 | FVM | 41.50 | 267 P | 13 42.00 | -0.3 | | <AGS-P> | | | |
| CDF | 25.84 | 92 P | 11 26.16 | -0.6 | | 1.1s | 13.41nm | | 4.6mb | ILIM | 0.18 | 25 iP | 11 53.40 | 0.9 |
| TOL | 25.84 | 120 iPd | 11 27.00 | 0.2 | INK | 41.88 | 327 eP | 13 44.00 | -1.0 | | | eS | 12 06.08 | |
| | 1.2s | 156.25nm | | 5.6mb | EDM | 43.22 | 300 ePd | 13 56.70 | 0.4 | PDB | 0.56 | 257 eP | 11 55.21 | -0.7 |
| | | ePP | 11 51.00 | | SES | 43.91 | 296 eP | 14 03.00 | 1.1 | AUL | 0.57 | 197 eP | 11 55.58 | -0.4 |
| BSF | 25.92 | 94 P | 11 29.21 | 1.7 | RLO | 45.32 | 270 e(P) | 14 13.90 | 0.5 | | | eS | 12 09.35 | |
| MOF | 26.09 | 94 P | 11 28.73 | -0.3 | LNO | 45.93 | 270 eP | 14 18.10 | 0.1 | RDT | 0.74 | 28 iP | 11 56.60 | -0.8 |
| LOMF | 26.23 | 95 P | 11 32.96 | 2.6 | TUL | 45.93 | 270 eP | 14 17.90 | -0.3 | | | eS | 12 11.07 | |
| UPP | 26.26 | 63 iP | 11 32.40 | 2.1 | | 1.2s | 15.00nm | | 4.9mb | HOM | 0.79 | 109 eP | 11 57.31 | -0.4 |
| FEL | 26.55 | 93 P | 11 35.21 | 1.8 | Z | 18s | 1.65um | | 5.0MsZ | NNL | 0.92 | 82 iP | 11 59.15 | 0.2 |
| MOX | 26.95 | 85 ePd | 11 37.00 | 0.1 | | | e | 14 23.60 | | CNPM | 1.03 | 112 iP | 11 59.30 | -0.8 |
| | 1.5s | 98.00nm | | 5.3mb | | | eLR | 27 28.00 | | | | eS | 12 15.84 | |
| | | i | 11 40.00 | | SIO | 46.33 | 270 eP | 14 21.80 | 0.5 | CDD | 1.03 | 196 eP | 11 59.12 | -1.0 |
| GRF | 27.26 | 87 eP | 11 39.60 | -0.1 | LRM | 47.68 | 292 eP | 14 27.30 | -4.9X | | | eS | 12 15.56 | |
| | 1.5s | 133.00nm | | 5.4mb | GLD | 48.21 | 281 P | 14 37.80 | 1.5 | NKA | 1.24 | 48 eP | 12 03.36 | 1.0 |
| LPG | 27.35 | 98 eP | 11 39.10 | -1.7 | | 1.1s | 57.86nm | | 5.6mb | SPU | 1.37 | 22 eP | 12 03.12 | -0.7 |
| CLL | 27.36 | 82 eP | 11 40.00 | -0.5 | MEO | 48.29 | 271 ePc | 14 36.30 | -0.5 | | | eS | 12 22.81 | |
| | 1.4s | 50.00nm | | 5.0mb | | 1.3s | 37.10nm | | 5.3mb | CRP | 1.43 | 19 eP | 12 04.06 | -0.7 |
| LSD | 27.59 | 98 P | 11 43.72 | 0.7 | GOL | 48.33 | 281 P | 14 37.00 | -0.3 | SLKM | 1.56 | 67 eP | 12 05.11 | -1.0 |
| BNI | 27.59 | 99 P | 11 45.20 | 2.3 | | 1.1s | 26.92nm | | 5.2mb | SEW | 1.85 | 83 eP | 12 08.29 | -1.3 |
| RRL | 27.74 | 99 P | 11 44.23 | -0.1 | BW06 | 48.33 | 287 P | 14 36.10 | -1.2 | | | eS | 12 31.08 | |
| RSP | 27.84 | 98 P | 11 45.87 | 0.7 | | 1.2s | 13.01nm | | 4.9mb | PMS | 2.20 | 51 iP | 12 12.69 | -1.5 |
| ORX | 27.92 | 97 P | 11 46.59 | 0.7 | FBA | 48.36 | 329 eP | 14 37.70 | 0.8 | PWL | 2.55 | 66 eP | 12 17.99 | -0.8 |
| ORO | 27.93 | 97 P | 11 49.00 | 3.1X | PNT | 48.76 | 300 eP | 14 42.00 | 1.8 | | | eS | 12 46.04 | |
| BRG | 28.09 | 83 iPc | 11 48.80 | 1.6 | IMA | 49.04 | 332 eP | 14 42.70 | 0.4 | KNK | 2.73 | 55 eP | 12 18.70 | -2.5 |
| | 1.8s | 52.00nm | | 5.0mb | | 0.7s | 3.60nm | | 4.5mb | | | eS | 12 50.43 | |
| | | e | 13 55.50 | | DPW | 49.09 | 297 P | 14 42.50 | -0.3 | SML | 3.01 | 49 iP | 12 22.05 | -2.8 |
| DOI | 28.26 | 99 P | 11 51.00 | 2.1 | DAU | 50.92 | 286 eP | 14 57.70 | 0.5 | | 17 obs. associated | | | |
| SOD | 28.49 | 45 iP | 11 51.00 | 0.4 | PWA | 51.47 | 327 eP | 15 01.80 | 1.1 | | | | | |
| FRF | 28.57 | 101 eP | 11 49.00 | -2.6 | MML | 52.18 | 87 ePc | 15 10.50 | 4.0X | | FEB 12, 1989 | 11h 18m 39.91± 0.76s | | |
| | 1.3s | 36.10nm | | 5.0mb | ALO | 52.43 | 278 eP | 15 08.50 | -0.1 | | 21.462 S ± 7.3km | 178.840 W ± 4.0km | | |
| LMR | 28.66 | 102 eP | 11 49.70 | -2.6 | | 1.6s | 16.67nm | | 4.7mb | | DEPTH = 539.2 ± 9.6 km | | | |
| | 1.3s | 36.10nm | | 5.0mb | Z | 18s | 2.58um | | 5.3MsZ | | 5.1mb (32 obs.) | | | |
| MDI | 28.76 | 95 P | 11 54.50 | 1.3 | MSU | 52.80 | 285 eP | 15 12.20 | 0.9 | | FIJI ISLANDS REGION | | (181) | |
| KHC | 28.85 | 86 Pc | 11 56.60 | 2.5 | DSI | 52.83 | 88 iPc | 15 15.30 | 4.0X | AFI | 10.08 | 43 eP | 21 00.00 | 0.4 |
| | 1.5s | 18.00nm | | 4.6mb | MSL | 53.35 | 78 eP | 15 13.50 | -1.7 | DZM | 13.69 | 265 iPc | 21 38.10 | 1.8 |
| | | e | 12 46.50 | | MBH | 53.95 | 90 ePc | 15 19.50 | 0.0 | KRP | 17.11 | 195 P | 22 12.50 | 2.7 |
| CKI | 28.87 | 98 P | 11 57.50 | 3.3X | PRN | 55.13 | 286 P | 15 29.00 | 0.6 | BRS | 26.48 | 251 iPd | 23 36.20 | 0.3 |
| SUF | 29.36 | 54 iP | 12 00.40 | 2.0 | SLY | 55.19 | 77 ePd | 15 15.00 | -13.6X | TBI | 27.21 | 100 iP | 23 42.20 | 0.0 |
| KSP | 29.37 | 81 iP | 11 59.60 | 0.9 | TIC | 55.22 | 145 P | 15 29.78 | 0.8 | | 0.8s | 45.00nm | | 5.1mb |
| KJF | 29.61 | 51 eP | 11 58.00 | -2.7 | KVN | 55.46 | 290 P | 15 30.00 | -0.8 | AFR | 27.65 | 87 iP | 23 45.00 | -0.3 |
| CTI | 29.64 | 93 P | 12 08.50 | 7.2X | BHD | 56.38 | 80 eP | 15 36.50 | -0.7 | | 0.8s | 60.00nm | | 5.3mb |
| FVI | 29.92 | 91 P | 12 04.00 | 0.4 | WDC | 56.54 | 294 e(P) | 15 47.00 | 8.7X | COO | 27.76 | 245 iPc | 23 48.10 | 1.0 |
| KBA | 29.93 | 90 e(P) | 12 03.50 | -0.4 | KUK | 57.19 | 140 eP | 15 44.00 | 0.8 | | 0.4s | 21.00nm | | 5.1mb |
| | 1.5s | 35.70nm | | 5.0mb | CMB | 57.40 | 291 e(P) | 15 44.80 | 0.3 | PAE | 27.81 | 87 iP | 23 47.00 | -0.5 |
| RBL | 30.44 | 90 Pd | 12 10.90 | 2.6 | FRI | 57.85 | 289 eP | 15 47.80 | 0.2 | | 0.8s | 25.00nm | | 4.9mb |
| CVF | 30.44 | 100 eP | 12 05.70 | -2.6 | MHI | 61.85 | 66 iPd | 16 13.70 | -1.6 | PPT | 27.83 | 87 iP | 23 47.40 | -0.4 |
| PII | 30.54 | 97 P | 12 08.50 | -0.7 | | | eS | 24 08.00 | | | 0.8s | 40.00nm | | 5.1mb |
| VOY | 30.87 | 91 eP | 12 11.60 | -0.6 | BNG | 66.60 | 121 iPd | 16 43.00 | -3.3X | | Z | 19s | 0.70um | 4.3MsZ |
| PGD | 31.09 | 96 P | 12 13.00 | -1.2 | | 0.8s | 25.00nm | | 5.5mb | PPN | 27.98 | 87 iP | 23 48.60 | -0.4 |
| SFI | 31.13 | 96 P | 12 14.70 | 0.4 | | | i | 16 47.90 | | | 0.8s | 30.00nm | | 5.0mb |
| LJU | 31.21 | 90 eP | 12 07.50 | -7.5X | WMO | 67.93 | 42 eP | 16 53.00 | -1.5 | TVO | 28.09 | 88 iP | 23 49.60 | -0.4 |
| ZST | 31.29 | 85 eP | 12 17.10 | 1.4 | GTA | 75.98 | 35 eP | 17 39.50 | -2.9 | | 0.8s | 75.00nm | | 5.4mb |
| CEY | 31.34 | 91 e(P) | 12 18.50 | 2.2 | MDJ | 77.48 | 12 eP | 17 47.00 | -3.5X | RMQ | 29.98 | 254 iPc | 24 07.20 | 0.9 |
| CRE | 31.38 | 96 P | 12 18.00 | 1.4 | BJI | 77.77 | 28 eP | 17 51.60 | -0.7 | | | e | 25 40.00 | |
| KRA | 31.75 | 80 eP | 12 19.20 | -0.5 | HHC | 77.92 | 26 eP | 17 52.20 | -0.9 | PMO | 30.05 | 83 iP | 24 06.50 | -0.4 |
| | 1.1s | 50.00nm | | 5.3mb | ZOBO | 78.73 | 214 eP | 17 55.00 | -3.3X | | 0.8s | 45.00nm | | 5.1mb |
| Z | 12s | 2.50um | | 5.1MsZ | | 2.4s | 0.13um | | 4.2MsZ | VAH | 30.23 | 83 iP | 24 08.10 | -0.3 |
| | | e | 12 21.20 | | | | eLR | 45 40.00 | | | 0.8s | 40.00nm | | 5.1mb |
| VBY | 31.94 | 90 e(P) | 12 19.30 | -2.2 | LPB | 78.97 | 214 eP | 18 01.00 | 1.5 | TPT | 30.31 | 83 iP | 24 08.70 | -0.4 |
| ARV | 32.00 | 95 P | 12 19.50 | -2.5 | CNCB | 79.19 | 213 P | 18 02.00 | 1.1 | | 0.8s | 65.00nm | | 5.3mb |
| PTJ | 32.07 | 89 eP | 12 23.00 | 0.3 | CCH | 79.20 | 212 eP | 17 56.70 | -3.9X | RUV | 30.47 | 84 iP | 24 10.10 | -0.4 |
| ASS | 32.13 | 96 P | 12 21.50 | -1.7 | BJI | 79.74 | 23 eP | 18 02.50 | -0.4 | | 0.8s | 85.00nm | | 5.4mb |
| SRO | 32.18 | 84 eP | 12 23.20 | -0.3 | ITA | 79.91 | 190 eP | 18 03.70 | -0.6 | CNB | 31.04 | 237 iPd | 24 16.60 | 1.3 |
| PSZ | 32.97 | 83 eP | 12 29.80 | -0.7 | BMA | 80.17 | 190 e(P) | 18 05.00 | -0.4 | | 0.7s | 77.00nm | | 5.4mb |
| UZD | 33.06 | 86 eP | 12 32.50 | 1.3 | LZH | 80.28 | 34 eP | 18 04.50 | -1.6 | CAN | 31.33 | 237 eP | 24 17.80 | 0.1 |
| AZI | 33.29 | 97 P | 12 36.00 | 2.8 | | 2.5s | 79.00nm | | 5.3mb | BWA | 31.53 | 239 eP | 24 17.70 | -1.7 |
| SDI | 33.69 | 97 P | 12 37.00 | 0.2 | GKN | 80.47 | 52 P | 18 07.00 | -0.3 | CTA | 32.63 | 266 iPd | 24 29.30 | 0.6 |
| MBC | 34.43 | 335 eP | 12 42.00 | -0.7 | TIY | 81.10 | 27 eP | 18 09.70 | -0.6 | | | i | 26 58.00 | |
| | 0.8s | 13.00nm | | 4.9mb | XAN | 83.66 | 31 eP | 18 22.00 | -1.6 | CMS | 33.04 | 245 iPc | 24 32.60 | 0.5 |
| RSON | 34.84 | 286 eP | 12 45.90 | -0.6 | CD2 | 85.05 | 36 eP | 18 28.60 | -2.0 | TOO | 34.70 | 234 eP | 24 46.70 | 0.7 |
| | 1.3s | 30.65nm | | 5.0mb | KMZ | 85.70 | 123 eP | 18 36.00 | 2.0 | PMG | 34.81 | 285 eP | 24 47.00 | -0.1 |
| | | | | | WHN | 88.40 | 27 eP | 18 42.00 | -4.9X | | | | | |

12d 11h

| | | | | | | | | | | | | | | | | | | | | |
|------|-------|----------|-----|-------|-------|---------|------|--------|---------|-------|-------|-------|-------|--------|------------|--------------------|--------|-------|-------|-------|
| STK | 36.67 | 245 | eP | 25 | 03.00 | 0.8 | DPW | 87.79 | 36 | P | 30 | 32.00 | -0.5 | PSZ | 149.60 | 335 | iPKP | 37 | 28.40 | 4.1X |
| ASPA | 43.54 | 258 | iPd | 25 | 57.30 | -0.4 | PNT | 87.89 | 34 | ePd | 30 | 33.00 | 0.2 | MOX | 149.74 | 347 | iPKP | 37 | 29.00 | 4.7X |
| | 0.8s | 18.00nm | | | | 4.7mb | | 0.9s | 37.00nm | | | 5.2mb | | | 1.3s | 53.00nm | | | | |
| | | iPcP | 27 | 31.90 | | | DAU | 87.92 | 45 | eP | 30 | 33.80 | 0.2 | | | e | 37 | 36.00 | | |
| | | iPcS | 31 | 24.60 | | | ALO | 88.61 | 52 | eP | 30 | 36.20 | -0.6 | SRO | 150.30 | 336 | iPKP | 37 | 30.10 | 4.9X |
| | | iS | 31 | 43.40 | | | | 1.0s | 8.00nm | | | 4.6mb | | | | i | 37 | 39.80 | | |
| | | iScS | 34 | 54.00 | | | BDT | 89.18 | 289 | eP | 30 | 40.50 | 1.1 | ZST | 150.41 | 338 | iPKP | 37 | 30.50 | 5.1X |
| WB5 | 43.68 | 263 | iPd | 25 | 57.90 | -0.9 | | 0.8s | 46.70nm | | | 5.4mb | | | | i | 37 | 39.80 | | |
| | | eS | 31 | 44.00 | | | IMA | 89.32 | 10 | iP | 30 | 38.40 | -0.9 | ENN | 150.51 | 354 | iPKPd | 37 | 30.40 | 5.0X |
| WB2 | 43.69 | 263 | iPd | 25 | 57.90 | -0.9 | FBA | 89.35 | 13 | P | 30 | 38.00 | -1.2 | | 1.0s | 62.00nm | | | | |
| | | eS | 31 | 44.00 | | | | 1.0s | 41.00nm | | | 5.3mb | | | | i | 37 | 39.70 | | |
| WRA | 43.70 | 263 | Pd | 25 | 57.70 | -1.2 | HHC | 89.46 | 315 | P | 30 | 40.00 | -0.4 | MEM | 150.66 | 354 | PKP | 37 | 25.20 | -0.4 |
| | 0.4s | 2.70nm | | | | 4.1mb | CHG | 89.83 | 290 | iPd | 30 | 44.00 | 1.6 | | | ed | 37 | 30.60 | | |
| MTN | 48.40 | 272 | iPc | 26 | 33.70 | -1.2 | | 1.1s | 47.47nm | | | 5.3mb | | | | ec | 37 | 40.30 | | |
| | 0.6s | 59.00nm | | | | 5.3mb | LRM | 89.95 | 40 | eP | 30 | 42.80 | 0.1 | KHC | 150.67 | 343 | iPKP | 37 | 25.30 | -0.5 |
| GUA | 49.76 | 311 | eP | 26 | 30.50 | -14.4X | BW06 | 90.20 | 44 | P | 30 | 43.10 | -0.8 | | | i | 37 | 31.60 | | |
| KNA | 49.80 | 267 | iPd | 26 | 44.30 | -1.0 | | 1.0s | 20.00nm | | | 5.0mb | | GRF | 150.72 | 347 | ePKP | 37 | 31.40 | 5.6X |
| | 0.5s | 29.00nm | | | | 5.0mb | BTO | 90.37 | 314 | eP | 30 | 45.00 | 0.4 | | | e | 37 | 41.10 | | |
| WARB | 49.80 | 253 | eP | 26 | 36.50 | -8.7X | CD2 | 90.65 | 303 | eP | 30 | 47.00 | 1.0 | TNS | 150.73 | 350 | iPKPc | 37 | 31.40 | 5.5X |
| PJG | 49.83 | 311 | eP | 26 | 30.50 | -14.9X | GOL | 91.54 | 48 | P | 30 | 50.00 | -0.2 | SNF | 150.90 | 356 | PKPd | 37 | 31.40 | 5.4X |
| COOL | 54.12 | 247 | iPc | 27 | 14.90 | -1.6 | | 1.0s | 13.00nm | | | 4.9mb | | | | ec | 37 | 41.30 | | |
| MBL | 56.79 | 258 | iPd | 27 | 33.60 | -1.4 | GLD | 91.67 | 48 | P | 30 | 51.00 | 0.3 | DOU | 151.30 | 355 | PKPd | 37 | 32.40 | 5.8X |
| | 0.5s | 31.00nm | | | | 4.9mb | | 1.0s | 18.00nm | | | 5.0mb | | | | ec | 37 | 42.90 | | |
| KLB | 56.94 | 246 | iPd | 27 | 34.50 | -1.4 | LZH | 92.73 | 308 | eP | 30 | 56.00 | 0.4 | WLF | 151.58 | 353 | PKPd | 37 | 33.40 | 6.4X |
| MEKA | 56.94 | 252 | eP | 27 | 34.40 | -1.6 | | 1.0s | 37.00nm | | | 5.4mb | | | | ec | 37 | 44.50 | | |
| BAL | 57.95 | 247 | eP | 27 | 41.00 | -1.9 | SES | 93.11 | 36 | eP | 30 | 57.00 | 0.1 | KBA | 152.60 | 342 | iPKPd | 37 | 34.10 | 5.3X |
| MUN | 58.21 | 245 | eP | 27 | 43.00 | -1.6 | INK | 95.40 | 15 | eP | 31 | 06.00 | -0.8 | | 1.0s | 13.40nm | | | | |
| NANU | 60.39 | 256 | iPd | 27 | 58.30 | -0.9 | GTA | 96.97 | 310 | eP | 31 | 14.50 | -0.2 | | | e | 41 | 25.00 | | |
| | 0.4s | 25.00nm | | | | 4.9mb | YKA | 97.71 | 25 | P | 31 | 17.00 | -0.4 | CDF | 152.67 | 351 | ePKP | 37 | 35.00 | 6.2X |
| SPA | 68.67 | 180 | iPd | 28 | 51.00 | 0.2 | MHI | 127.55 | 300 | iPKPc | 36 | 44.40 | -1.0 | FLN | 152.73 | 2 | ePKP | 37 | 34.70 | 6.0X |
| | 0.6s | 12.20nm | | | | 4.6mb | KEV | 129.26 | 349 | ePKP | 36 | 49.00 | 1.6 | PTJ | 152.78 | 337 | ePKP | 37 | 39.70 | 10.7X |
| CHJJ | 69.73 | 325 | P | 28 | 56.60 | -0.7 | BUL | 130.70 | 215 | iPKPc | 36 | 50.00 | -1.9 | LDF | 152.91 | 2 | ePKP | 37 | 35.00 | 6.0X |
| IIDJ | 69.91 | 323 | P | 28 | 57.80 | -0.6 | | | iSKP | 39 | 21.70 | | GRR | 153.09 | 3 | ePKP | 37 | 35.60 | 6.4X | |
| MAT | 70.52 | 324 | iPd | 29 | 01.00 | -0.9 | SOD | 131.36 | 347 | iPKP | 36 | 50.20 | -1.3 | RBL | 153.11 | 341 | PKP | 37 | 35.10 | 5.7X |
| | 1.0s | 67.00nm | | | | 5.1mb | KJF | 133.77 | 344 | ePKP | 36 | 49.00 | -7.2X | LJU | 153.15 | 339 | ePKP | 37 | 28.00 | -1.4 |
| OFUJ | 70.66 | 328 | eP | 29 | 02.30 | -0.3 | | 0.8s | 23.50nm | | | | | | | e | 37 | 36.00 | | |
| MTMJ | 70.77 | 324 | P | 29 | 03.00 | -0.5 | SUF | 135.39 | 344 | ePKP | 36 | 50.00 | -9.3X | VAY | 153.19 | 322 | ePKP | 37 | 34.00 | 4.4X |
| YAMJ | 70.78 | 327 | eP | 29 | 03.50 | 0.1 | NUR | 137.63 | 343 | iPKP | 36 | 53.90 | -9.7X | | | i | 37 | 51.70 | | |
| SHK | 72.27 | 320 | iP | 29 | 11.80 | -0.3 | NB2 | 139.83 | 352 | PKP | 36 | 57.90 | -9.7X | HAU | 153.19 | 352 | ePKP | 37 | 36.10 | 6.7X |
| | 0.9s | 107.56nm | | | | 5.4mb | | 0.6s | 5.30nm | | | | FVI | 153.21 | 342 | PKP | 37 | 35.30 | 5.9X | |
| KUSJ | 72.47 | 333 | eP | 29 | 12.90 | -0.1 | EDU | 144.83 | 4 | ePKPd | 37 | 15.10 | -1.2 | BSF | 153.30 | 352 | ePKP | 37 | 36.30 | 6.6X |
| HOJO | 72.51 | 332 | eP | 29 | 14.30 | 1.0 | | 0.5s | 49.00nm | | | | VOY | 153.37 | 340 | ePKP | 37 | 28.10 | -1.7 | |
| ADK | 73.05 | 1 | iP | 29 | 14.90 | -1.2 | | | | | | | | | i | 37 | 36.20 | | | |
| MRRJ | 73.55 | 330 | eP | 29 | 19.20 | 0.0 | ELO | 144.85 | 5 | ePKPd | 37 | 15.10 | -1.3 | | | e | 37 | 51.20 | | |
| ASAJ | 74.18 | 332 | eP | 29 | 23.90 | 1.2 | EAB | 145.08 | 5 | ePKPd | 37 | 15.80 | -1.0 | VBY | 153.37 | 338 | e(PKP) | 37 | 37.10 | 7.4X |
| OZH | 76.29 | 304 | eP | 29 | 34.80 | 0.0 | EBH | 145.09 | 5 | ePKPd | 37 | 15.90 | -0.9 | LPF | 153.43 | 3 | ePKP | 37 | 36.50 | 6.8X |
| SSE | 77.71 | 311 | Pd | 29 | 42.00 | -0.3 | | 0.6s | 34.00nm | | | | CEY | 153.46 | 339 | ePKP | 37 | 36.80 | 6.9X | |
| | 1.0s | 0.17nm | | | | 2.4mb X | ESY | 145.48 | 4 | ePKPd | 37 | 17.00 | -0.4 | | | i | 37 | 52.40 | | |
| Z | 16s | 0.40um | | | | 4.8mszX | | 0.6s | 32.00nm | | | | CTI | 154.02 | 343 | PKPc | 37 | 37.80 | 7.1X | |
| | | e | 36 | 10.00 | | | EBL | 145.59 | 4 | ePKPd | 37 | 17.50 | -0.1 | LOR | 154.16 | 356 | ePKP | 37 | 38.20 | 7.5X |
| NWRM | 79.39 | 41 | eP | 29 | 51.10 | 0.1 | | 0.6s | 29.00nm | | | | OHR | 154.31 | 324 | ePKP | 37 | 37.00 | 5.8X | |
| BKS | 79.44 | 42 | iPc | 29 | 52.20 | 0.9 | EKA | 146.02 | 4 | PKPd | 37 | 18.40 | 0.1 | SSF | 154.39 | 356 | ePKP | 37 | 38.70 | 7.7X |
| | 0.7s | 28.00nm | | | | 4.8mb | | 0.8s | 29.90nm | | | | LBF | 154.44 | 356 | ePKP | 37 | 38.70 | 7.6X | |
| GZH | 79.51 | 300 | iPd | 29 | 52.30 | 0.3 | DMU | 147.04 | 9 | iPKPd | 37 | 21.60 | 1.6 | MFF | 154.90 | 2 | ePKP | 37 | 39.40 | 7.7X |
| RVR | 80.37 | 48 | eP | 29 | 56.00 | -0.2 | | 0.6s | 55.00nm | | | | BGF | 154.93 | 357 | ePKP | 37 | 39.70 | 7.9X | |
| PLM | 80.37 | 49 | eP | 29 | 56.00 | -0.5 | CLI | 147.19 | 326 | ePKPd | 37 | 22.50 | 2.0 | TCF | 155.22 | 358 | ePKP | 37 | 40.20 | 8.0X |
| FRI | 80.52 | 44 | eP | 29 | 56.90 | 0.0 | HRI | 147.26 | 298 | iPKPd | 37 | 25.00 | 3.8X | LSF | 155.27 | 359 | ePKP | 37 | 40.10 | 7.8X |
| ISA | 80.57 | 46 | eP | 29 | 58.00 | 0.7 | BBTK | 147.45 | 311 | iPKPd | 37 | 23.50 | 2.2 | BNG | 156.10 | 227 | ePKPd | 37 | 41.70 | 7.4X |
| CMB | 80.70 | 43 | eP | 29 | 58.00 | 0.1 | DCN | 147.52 | 9 | iPKPd | 37 | 22.70 | 1.9 | | 0.6s | 6.00nm | | | | |
| MDJ | 80.86 | 325 | eP | 29 | 59.00 | 0.5 | | 0.5s | 37.00nm | | | | | | i | 38 | 04.30 | | | |
| WDC | 80.91 | 40 | ePd | 29 | 59.50 | 0.6 | DLE | 147.68 | 9 | ePKP | 37 | 22.60 | 1.6 | RJF | 156.22 | 359 | ePKP | 37 | 42.60 | 9.1X |
| ORV | 80.91 | 41 | eP | 29 | 59.90 | 0.0 | KRA | 147.84 | 337 | iPKPd | 37 | 23.80 | 2.4 | | S.D. = 1.0 | on 135 of 182 obs. | | | | |
| CLC | 81.24 | 46 | eP | 30 | 01.00 | 0.2 | | 0.9s | 43.00nm | | | | | | | | | | | |
| TPC | 81.35 | 48 | eP | 30 | 01.00 | -0.4 | | | e | 37 | 24.20 | | | | | | | | | |
| GLA | 81.64 | 50 | eP | 30 | 04.00 | 1.2 | | | e | 37 | 28.90 | | | | | | | | | |
| LBFM | 81.77 | 40 | eP | 30 | 04.00 | 0.5 | JVI | 147.84 | 296 | iPKPd | 37 | 26.30 | 4.3X | | | | | | | |
| KDC | 81.92 | 14 | eP | 30 | 03.00 | -0.6 | VRI | 147.92 | 325 | ePKPd | 37 | 24.00 | 2.3 | | | | | | | |
| WHN | 82.38 | 307 | P | 30 | 07.00 | 0.5 | | | e | 06 | 59.00 | | | | | | | | | |
| YMT3 | 82.57 | 46 | P | 30 | 07.50 | 0.0 | KSP | 148.36 | 342 | ePKP | 37 | 20.80 | -1.4 | | | | | | | |
| CN2 | 82.58 | 323 | iPd | 30 | 07.00 | -0.2 | | 1.0s | 62.00nm | | | | | | | | | | | |
| KVN | 82.75 | 43 | P | 30 | 08.00 | -0.4 | | | id | 37 | 25.50 | | | | | | | | | |
| TNP | 82.76 | 44 | iP | 30 | 08.50 | -0.1 | | | ic | 37 | 31.30 | | | | | | | | | |
| TIA | 83.35 | 313 | eP | 30 | 13.40 | 2.2 | WIT | 148.42 | 354 | ePKP | 37 | 27.00 | 4.8X | ACU | 3.23 | 312 | iPd | 03 | 10.60 | -0.1 |
| PRN | 83.82 | 46 | P | 30 | 14.00 | 0.2 | SPC | 148.44 | 336 | ePKP | 37 | 25.40 | 2.8 | | | eS | 03 | 50.00 | | |
| BMW | 84.22 | 35 | eP | 30 | 16.00 | 0.6 | ISR | 148.50 | 325 | ePKP | 37 | 26.00 | 3.3X | ESEL | 3.38 | 3 | iPc | 03 | 13.10 | 0.3 |
| GMW | 85.13 | 34 | eP | 30 | 20.20 | 0.4 | | | e | 06 | 56.00 | | EALH | 3.57 | 295 | eP | 03 | 15.40 | -0.1 | |
| LON | 85.15 | 35 | iP | 30 | 20.00 | 0.1 | | | | | | | ENIJ | 3.95 | 280 | eP | 03 | 19.30 | -1.7 | |
| PGC | 85.49 | 33 | eP | 30 | 22.00 | 0.6 | MBH | 148.58 | 292 | iPKPd | 37 | 25.00 | 1.8 | | | eS | 04 | 04.70 | | |
| RMW | 85.60 | 35 | iP | 30 | 22.30 | 0.2 | MLR | 148.59 | 326 | iPKPc | 37 | 25.50 | 2.6 | ECHE | 4. | | | | | |

12d 12h

| | | | | | | | | | | | | | | | | | | | | |
|------|-------|----------|------|----|---------|------|-----|-------|----------|-------|----|---------|-----------------------------------|-----------------------------------|--------|---------|------|-------|-------|-------|
| EBAN | 5.43 | 291 | iPd | 03 | 41.20 | -0.8 | RBL | 12.95 | 36 | P | 05 | 25.80 | 0.1 | DST | 0.87 | 57 | iPg | 13 | 48.60 | -0.7 |
| | | | eS | 04 | 42.60 | | LJU | 13.14 | 39 | eP | 05 | 37.00 | 8.8X | EDC | 1.22 | 7 | iPn | 13 | 54.50 | -0.7 |
| ETOR | 5.75 | 322 | eP | 03 | 47.70 | 1.1 | VBY | 13.17 | 42 | eP | 05 | 31.20 | 2.7 | KCT | 1.23 | 25 | iPn | 13 | 56.00 | 0.7 |
| ETER | 5.91 | 1 | eP | 03 | 48.80 | 0.2 | KBA | 13.32 | 33 | e(P) | 05 | 34.50 | 3.7X | EZN | 1.25 | 304 | ePn | 13 | 55.80 | 0.0 |
| | | | eS | 04 | 52.80 | | | 1.0s | 8.50nm | | | 4.8mb X | YLV | 1.93 | 42 | iPn | 14 | 06.50 | 0.7 | |
| CGL | 6.04 | 59 | iP | 03 | 48.90 | -1.7 | WLF | 13.51 | 10 | P | 05 | 36.40 | 3.4X | S.D. = 1.0 on 5 of 5 obs. | | | | | | |
| TOL | 6.32 | 305 | iPnc | 03 | 55.00 | 0.4 | DOU | 13.77 | 5 | Pc | 05 | 37.70 | 1.2 | FEB 12, 1989 13h 25m 47.05±0.30s | | | | | | |
| | 0.8s | 149.25nm | | | 5.9mb X | | | 0.6s | 236.30nm | | | 6.2mb X | 57.335 N ±11.4km 33.301 W ± 4.7km | | | | | | | |
| | | | iSn | 05 | 17.00 | | | | e | | 08 | 07.90 | | DEPTH = 10.0km (geophysicist) | | | | | | |
| EHOR | 6.47 | 285 | eP | 03 | 55.20 | -1.4 | PTJ | 13.80 | 42 | eP | 05 | 41.90 | 4.9X | 4.6mb (11 obs.) | | | | | | |
| | | | eS | 05 | 09.00 | | SNF | 14.17 | 4 | P | 05 | 42.70 | 1.1 | NORTH ATLANTIC OCEAN (402) | | | | | | |
| GUD | 6.82 | 311 | iPc | 04 | 00.80 | -0.8 | MEM | 14.42 | 9 | Pc | 05 | 46.70 | 1.8 | GDH | 14.90 | 331 | ePd | 29 | 18.00 | -1.2 |
| | | | eS | 05 | 17.00 | | ENN | 14.56 | 8 | eP | 05 | 49.00 | 2.1 | | | | e | 29 | 26.00 | |
| EPF | 6.87 | 346 | Pn | 04 | 02.80 | 0.6 | GRF | 14.68 | 22 | eP | 05 | 51.00 | 2.5 | SCH | 18.75 | 277 | eP | 30 | 07.00 | -0.8 |
| | | | Sn | 05 | 16.80 | | | 2.0s | 106.00nm | | | 5.1mb X | GRR | 21.35 | 101 | eP | 30 | 35.10 | -1.1 | |
| IFR | 7.00 | 248 | iPd | 04 | 03.00 | -1.2 | OHR | 14.92 | 66 | eP | 05 | 53.20 | 1.5 | | 1.2s | 41.60nm | | | 4.7mb | |
| | | | i | 06 | 16.00 | | KHC | 15.03 | 29 | iPd | 05 | 54.10 | 1.1 | LPF | 21.47 | 102 | eP | 30 | 36.30 | -1.1 |
| LMR | 7.54 | 22 | Pn | 04 | 10.00 | -1.6 | | 1.0s | 9.00nm | | | 4.2mb | DOU | 23.31 | 92 | Pc | 31 | 02.60 | 7.0X | |
| | | | Sn | 05 | 28.80 | | SKO | 15.59 | 63 | eP | 06 | 04.00 | 3.6X | MEM | 23.81 | 89 | P | 31 | 03.60 | 3.2X |
| LRG | 7.61 | 21 | Pn | 04 | 11.20 | -1.3 | MOX | 15.65 | 22 | e(P) | 06 | 04.00 | 3.0X | TCF | 24.29 | 102 | eP | 31 | 05.40 | 0.2 |
| | | | Sn | 05 | 31.00 | | WTS | 15.88 | 9 | eP | 06 | 07.50 | 3.5X | BGF | 24.46 | 101 | eP | 31 | 06.70 | -0.1 |
| EVAL | 7.61 | 282 | eP | 04 | 11.00 | -1.6 | | 0.9s | 10.00nm | | | 4.0mb | | | 0.7s | 4.80nm | | | 4.2mb | |
| | | | eS | 05 | 35.50 | | ZST | 15.89 | 38 | eP | 06 | 08.80 | 4.6X | MAF | 24.52 | 101 | eP | 31 | 07.70 | 0.3 |
| EPLA | 7.79 | 301 | eP | 04 | 14.30 | -0.8 | BEO | 15.91 | 53 | eP | 06 | 04.50 | 0.1 | | 1.2s | 19.00nm | | | 4.6mb | |
| FRF | 7.79 | 22 | Pn | 04 | 13.40 | -1.7 | SRO | 16.26 | 41 | eP | 06 | 11.50 | 2.7 | LOR | 24.55 | 98 | eP | 31 | 07.80 | 0.1 |
| | | | Sn | 05 | 35.50 | | VAY | 16.27 | 66 | eP | 06 | 09.40 | 0.3 | | 0.9s | 7.20nm | | | 4.3mb | |
| CVF | 7.82 | 36 | Pn | 04 | 13.80 | -1.8 | BRG | 16.60 | 26 | e(P) | 06 | 17.00 | 3.8X | LBF | 24.79 | 99 | eP | 31 | 09.90 | -0.2 |
| | | | Sn | 05 | 36.00 | | CLL | 16.65 | 23 | e(P) | 06 | 16.00 | 2.2 | | 1.0s | 12.80nm | | | 4.5mb | |
| LVI | 7.90 | 75 | P | 04 | 14.30 | -2.3 | BZS | 16.99 | 51 | eP | 06 | 19.00 | 0.8 | SMF | 24.93 | 99 | eP | 31 | 11.50 | 0.1 |
| SBF | 8.31 | 25 | Pn | 04 | 20.30 | -2.2 | PSZ | 17.17 | 43 | eP | 06 | 22.00 | 1.5 | | 1.1s | 14.60nm | | | 4.6mb | |
| | | | Sn | 05 | 47.20 | | KSP | 17.46 | 30 | eP | 06 | 27.00 | 3.0X | HAU | 25.45 | 94 | eP | 31 | 17.20 | 0.9 |
| LPO | 8.36 | 353 | Pn | 04 | 22.30 | -0.7 | DEV | 17.92 | 52 | iPc | 06 | 30.00 | 0.2 | BSF | 25.79 | 94 | eP | 31 | 20.90 | 1.3 |
| IMI | 8.51 | 26 | P | 04 | 22.88 | -2.4 | SPC | 18.12 | 40 | iP | 06 | 34.60 | 2.2 | MBC | 34.44 | 335 | eP | 32 | 37.00 | 0.9 |
| | | | S | 05 | 11.66 | | KRA | 18.52 | 37 | eP | 06 | 37.60 | 0.5 | RSON | 34.95 | 286 | eP | 32 | 40.00 | -0.7 |
| CAF | 8.54 | 357 | Pn | 04 | 25.20 | -0.4 | | e | 06 | 39.10 | | | | | 0.8s | 8.10nm | | | 4.6mb | |
| | | | Sn | 05 | 54.50 | | EKA | 19.36 | 350 | P | 06 | 50.00 | 2.6 | SKO | 37.51 | 90 | eP | 33 | 02.00 | -0.4 |
| STV | 8.62 | 23 | P | 04 | 25.96 | -0.8 | | 1.6s | 96.90nm | | | 4.8mb | | YKC | 38.49 | 312 | eP | 33 | 10.00 | -0.4 |
| | | | S | 05 | 17.94 | | MLR | 19.75 | 55 | ePd | 06 | 52.50 | 0.5 | YKA | 38.54 | 313 | P | 33 | 11.20 | 0.4 |
| LFF | 8.66 | 351 | Pn | 04 | 27.80 | 0.6 | CFR | 21.15 | 58 | ePd | 07 | 05.00 | -1.3 | INK | 41.91 | 327 | eP | 33 | 39.00 | 0.5 |
| | | | Sn | 05 | 57.50 | | NB2 | 25.26 | 10 | P | 07 | 47.10 | 0.5 | LRM | 47.78 | 292 | eP | 34 | 32.80 | 6.5X |
| PZZ | 8.79 | 21 | P | 04 | 28.52 | -0.6 | | 0.9s | 6.60nm | | | 4.3mb | GLD | 48.33 | 281 | eP | 34 | 31.60 | 1.1 | |
| | | | S | 05 | 23.11 | | BNG | 35.00 | 152 | ePc | 09 | 14.00 | 0.3 | | 1.2s | 46.46nm | | | 5.4mb | |
| AVE | 8.83 | 252 | iP | 04 | 29.00 | -0.5 | | 0.9s | 5.00nm | | | 4.4mb | MEO | 48.41 | 271 | eP | 34 | 30.80 | -0.2 | |
| | | | i | 07 | 15.00 | | SCH | 49.78 | 315 | eP | 11 | 13.00 | -0.5 | | 1.3s | 13.90nm | | | 4.9mb | |
| DOI | 8.83 | 22 | Pc | 04 | 28.80 | -0.8 | GAC | 57.47 | 306 | eP | 12 | 11.00 | 0.7 | BW06 | 48.44 | 287 | eP | 34 | 30.60 | -0.8 |
| ROB | 8.84 | 25 | P | 04 | 28.52 | -1.3 | WMO | 62.74 | 54 | eP | 12 | 47.00 | 0.4 | | 0.6s | 3.72nm | | | 4.6mb | |
| | | | S | 05 | 22.37 | | GKN | 67.96 | 71 | P | 13 | 20.40 | -0.1 | GOL | 48.44 | 281 | eP | 34 | 32.20 | 0.7 |
| FAI | 8.89 | 81 | P | 04 | 30.00 | -0.4 | DMN | 68.51 | 71 | P | 13 | 24.40 | 0.3 | PNT | 48.84 | 300 | eP | 34 | 35.00 | 0.8 |
| FIN | 8.89 | 27 | P | 04 | 28.42 | -2.0 | KKN | 68.55 | 71 | P | 13 | 24.40 | 0.1 | | 0.6s | 3.00nm | | | 4.5mb | |
| | | | S | 05 | 21.27 | | FFC | 68.72 | 323 | eP | 13 | 24.00 | -0.7 | BMW | 52.58 | 300 | eP | 35 | 12.70 | 10.0X |
| MAO | 8.92 | 45 | P | 04 | 28.90 | -1.9 | | 1.2s | 25.00nm | | | 5.3mb | MSU | 52.91 | 285 | eP | 35 | 05.80 | 0.4 | |
| RJF | 8.95 | 355 | Pn | 04 | 30.60 | -0.6 | PKI | 68.76 | 71 | P | 13 | 26.00 | 0.2 | KVN | 55.57 | 290 | eP | 35 | 24.90 | 0.0 |
| RRL | 9.08 | 19 | P | 04 | 33.65 | 0.4 | GUN | 68.95 | 70 | P | 13 | 27.00 | 0.1 | TNP | 55.85 | 289 | eP | 35 | 26.80 | -0.1 |
| CKI | 9.10 | 26 | P | 04 | 31.00 | -2.3 | YKC | 69.38 | 334 | eP | 13 | 30.00 | 1.5 | GLA | 58.45 | 283 | eP | 35 | 45.40 | 0.2 |
| BNI | 9.18 | 18 | P | 04 | 35.20 | 0.7 | YKA | 69.41 | 334 | P | 13 | 29.90 | 1.1 | MHI | 61.72 | 66 | eP | 36 | 13.00 | 5.4X |
| RSP | 9.42 | 20 | P | 04 | 38.16 | 0.3 | GBA | 69.88 | 88 | Pc | 13 | 31.00 | -1.3 | ASPA | 145.11 | 21 | ePKP | 45 | 25.20 | -0.8 |
| | | | S | 04 | 39.73 | | | 0.9s | 2.10nm | | | 4.3mb | S.D. = 0.7 on 28 of 33 obs. | | | | | | | |
| LPG | 9.61 | 18 | Pn | 04 | 42.00 | 1.4 | INK | 70.61 | 344 | eP | 13 | 38.00 | 2.0 | FEB 12, 1989 14h 26m 47.69±0.17s | | | | | | |
| LPL | 9.62 | 17 | Pn | 04 | 42.00 | 1.3 | KOD | 71.81 | 91 | eP | 13 | 45.00 | 0.6 | 19.694 N ± 3.1km 74.361 W ± 3.1km | | | | | | |
| ERUA | 9.66 | 311 | eP | 04 | 39.80 | -1.2 | GTA | 72.81 | 54 | P | 13 | 50.30 | 0.5 | DEPTH = 59.6km (12 depth phases) | | | | | | |
| LSO | 9.68 | 19 | P | 04 | 41.95 | 0.5 | EDM | 74.97 | 326 | eP | 14 | 02.00 | 0.0 | 5.2mb (58 obs.) | | | | | | |
| BDI | 9.78 | 36 | P | 04 | 41.60 | -1.1 | SES | 75.74 | 323 | eP | 14 | 08.00 | 1.6 | CUBA REGION (85) | | | | | | |
| MNS | 9.80 | 49 | P | 04 | 41.60 | -1.4 | IMA | 76.24 | 350 | eP | 14 | 11.00 | 1.9 | Minor damage in the Santiago de | | | | | | |
| MAF | 9.82 | 360 | Pn | 04 | 43.36 | 0.1 | | 1.0s | 7.50nm | | | 4.7mb | Cubo-Maisi-Guantanamo area. | | | | | | | |
| BOB | 9.83 | 30 | P | 04 | 42.70 | -0.8 | FBA | 76.42 | 347 | eP | 14 | 12.10 | 2.2 | CENTROID, MOMENT TENSOR (HRV) | | | | | | |
| LSF | 9.89 | 355 | Pn | 04 | 43.00 | -1.1 | LZH | 77.32 | 55 | eP | 14 | 15.00 | -0.7 | Data Used: GDSN | | | | | | |
| TIO | 9.89 | 239 | iP | 04 | 43.90 | -0.5 | MEO | 78.11 | 304 | eP | 14 | 21.00 | 1.2 | L.P.B.: 11S, 18C | | | | | | |
| | | | i | 07 | 40.00 | | | 1.0s | 4.80nm | | | 4.5mb | Centroid Location: | | | | | | | |
| TCF | 9.89 | 358 | Pn | 04 | 44.30 | 0.0 | LRM | 79.46 | 320 | eP | 14 | 27.10 | -0.3 | Origin Time 14:26:50.1 0.6 | | | | | | |
| MME | 9.92 | 36 | P | 04 | 43.80 | -1.1 | PWA | 79.79 | 347 | eP | 14 | 30.80 | 2.4 | Lat 19.98N 0.10 Lon 74.52W 0.12 | | | | | | |
| CRE | 10.15 | 42 | P | 04 | 48.00 | 0.1 | CD2 | 80.31 | 59 | eP | 14 | 33.40 | 1.5 | Dep | | | | | | |

12d 14h

| | | | | | | | | | | | | | | | | | | | | |
|------|-------|-----|----------|----|-------|---------|------|-------|-----|---------|-------|-------|-------|-------|-------|---------|---------|-------|-------|-------|
| MCP | 6.97 | 99 | P | 27 | 51.00 | | PLM | 40.12 | 299 | eP | 34 | 35.00 | 15.5X | SNF | 67.90 | 43 | Pd | 37 | 41.70 | -0.3 |
| MGP | 7.09 | 103 | P | 28 | 25.00 | -4.6X | GSC | 40.41 | 302 | eP | 34 | 39.00 | 17.2X | SMF | 67.94 | 47 | iPc | 37 | 41.60 | -0.8 |
| APR | 7.32 | 98 | P | 28 | 27.70 | -3.4X | RVR | 40.64 | 300 | eP | 34 | 40.00 | 16.4X | | 1.2s | | 42.80nm | | | 5.3mb |
| CSB | 7.89 | 99 | P | 28 | 30.50 | -3.9X | LRM | 40.71 | 319 | eP | 34 | 25.10 | 0.8 | LBF | 68.00 | 46 | iPc | 37 | 41.80 | -1.0 |
| | | | S | 28 | 36.50 | -5.8X | | | e | 36 | 26.00 | | | 1.1s | | 22.90nm | | | | 5.1mb |
| SJG | 7.93 | 100 | eP | 29 | 23.00 | -4.9X | FFC | 40.78 | 336 | iPc | 34 | 24.00 | -0.5 | DOU | 68.13 | 43 | iPc | 37 | 43.10 | -0.3 |
| | | | S | 29 | 25.00 | | | 0.7s | | 9.00nm | | | 4.7mb | | 0.7s | | 23.30nm | | | 5.3mb |
| LPR | 8.15 | 98 | P | 28 | 40.00 | -5.9X | CLC | 41.14 | 302 | eP | 34 | 44.00 | 16.2X | TIC | 68.36 | 91 | Pc | 37 | 44.16 | -1.3 |
| PAG | 12.61 | 105 | eP | 29 | 40.00 | -6.4X | SES | 42.18 | 325 | ePc | 34 | 37.00 | 0.9 | | 0.9s | | 52.00nm | | | 5.5mb |
| JCR | 12.93 | 222 | iPd | 30 | 40.00 | -6.4X | | | pP | 34 | 48.00 | 39kmX | LIC | 68.49 | 91 | Pc | 37 | 45.38 | -0.9 | |
| SJS | 13.48 | 225 | iPc | 29 | 56.90 | -1.1 | KVN | 42.25 | 307 | P | 34 | 38.20 | 1.2 | KIC | 68.72 | 91 | Pc | 37 | 46.80 | -0.9 |
| LCR2 | 13.59 | 225 | iPd | 29 | 58.50 | -1.0 | | | pP | 34 | 53.00 | 57km | | 0.8s | | 78.00nm | | | | 5.7mb |
| DVD | 13.66 | 216 | P | 29 | 59.30 | -0.9 | BCH | 43.03 | 301 | P | 35 | 00.00 | 16.7X | TTA | 68.87 | 331 | eP | 37 | 46.90 | -1.0 |
| SVB | 14.10 | 115 | eP | 30 | 02.10 | -3.8X | CMB | 43.77 | 305 | eP | 34 | 51.60 | 2.4 | | | epP | 38 | 02.40 | | 56km |
| FUO | 14.15 | 177 | eP | 29 | 59.50 | -7.5X | FRB | 44.20 | 4 | ePc | 34 | 52.30 | 0.1 | ENN | 68.92 | 42 | iPc | 37 | 48.10 | -0.2 |
| BOG | 14.98 | 179 | eP | 30 | 17.00 | -0.8 | EDM | 44.92 | 328 | iPc | 34 | 58.00 | -0.3 | | 1.0s | | 35.00nm | | | 5.2mb |
| | | | eS | 33 | 03.00 | | DPW | 45.15 | 319 | P | 35 | 00.00 | -0.2 | MEM | 68.98 | 42 | Pc | 37 | 48.50 | -0.2 |
| TRN | 15.40 | 124 | eP | 30 | 22.09 | -0.7 | | | pP | 35 | 15.50 | 60km | BRW | 69.06 | 340 | eP | 37 | 48.40 | -0.4 | |
| TPP | 15.56 | 125 | eP | 30 | 27.43 | 2.6 | PNT | 46.58 | 320 | eP | 35 | 11.00 | -0.4 | WLF | 69.17 | 43 | Pc | 37 | 49.60 | -0.2 |
| TBH | 15.76 | 124 | eP | 30 | 28.56 | 1.2 | LON | 47.05 | 316 | eP | 35 | 15.20 | 0.0 | WTS | 69.35 | 41 | iPc | 37 | 51.40 | 0.5 |
| JSC | 15.77 | 339 | eP | 30 | 21.90 | -5.4X | GMW | 47.93 | 317 | eP | 35 | 20.60 | -1.5 | | 0.8s | | 60.00nm | | | 5.6mb |
| LHS | 15.80 | 340 | eP | 30 | 21.50 | -6.3X | ITB1 | 48.17 | 155 | eP | 35 | 23.30 | -0.7 | HAU | 69.49 | 45 | iPc | 37 | 51.70 | -0.2 |
| PRM | 16.00 | 335 | eP | 30 | 26.40 | -3.9X | MCW | 48.33 | 318 | eP | 35 | 23.60 | -1.5 | BSF | 69.81 | 45 | P | 37 | 53.40 | -0.6 |
| TKL | 17.94 | 334 | e(P) | 30 | 52.50 | -2.0 | ITB | 48.38 | 155 | e(P) | 35 | 24.20 | -1.4 | LOMF | 69.89 | 46 | P | 37 | 54.41 | 0.0 |
| GBTN | 18.13 | 333 | e(P) | 30 | 55.00 | -1.8 | YKC | 50.85 | 337 | iPc | 35 | 43.50 | -0.6 | MOF | 70.03 | 45 | P | 37 | 54.64 | -0.7 |
| BLA | 18.24 | 344 | P | 30 | 56.20 | -2.0 | ITA | 50.87 | 144 | e(P) | 35 | 44.00 | -1.1 | CDF | 70.06 | 45 | P | 37 | 54.96 | -0.5 |
| CVL | 18.57 | 350 | iP | 31 | 00.70 | -1.5 | YKA | 50.90 | 337 | P | 35 | 44.40 | -0.1 | LPG | 70.09 | 48 | iPc | 37 | 56.20 | 0.2 |
| NA2 | 18.60 | 352 | eP | 31 | 01.10 | -1.5 | GDH | 51.18 | 9 | iPd | 35 | 46.00 | -0.5 | | 0.8s | | 13.40nm | | | 4.9mb |
| PSO | 18.62 | 189 | eP | 31 | 06.50 | 3.2X | | 0.9s | | 50.42nm | | | 5.5mb | LRG | 70.11 | 50 | iPc | 37 | 55.80 | 0.1 |
| CBN | 18.63 | 353 | eP | 31 | 02.00 | -0.9 | | | i | 36 | 02.00 | | | | 1.0s | | 21.60nm | | | 5.0mb |
| | | | e | 31 | 29.00 | | BMA | 51.43 | 144 | ePc | 35 | 48.30 | -0.8 | RRL | 70.20 | 48 | P | 37 | 56.72 | 0.2 |
| RSCP | 18.68 | 330 | P | 31 | 04.20 | 0.6 | AVE | 60.53 | 62 | iPc | 36 | 54.50 | 0.3 | GW | 70.21 | 44 | P | 37 | 56.05 | -0.2 |
| | 1.0s | | 36.00nm | | | 4.5mb | INK | 60.62 | 339 | ePd | 36 | 53.50 | -0.8 | LMR | 70.24 | 50 | eP | 37 | 56.40 | -0.1 |
| | | | pP | 31 | 19.00 | | MBC | 61.01 | 349 | ePc | 36 | 55.90 | -0.9 | | 0.8s | | 6.40nm | | | 4.6mb |
| TBR | 21.38 | 0 | eP | 31 | 32.60 | 0.5 | | 0.7s | | 22.00nm | | | 5.4mb | FRF | 70.30 | 50 | iPc | 37 | 56.70 | -0.2 |
| ELC | 21.81 | 327 | eP | 31 | 36.30 | -0.1 | AAPN | 62.86 | 57 | iP | 37 | 11.00 | 56km | | 0.8s | | 9.10nm | | | 4.8mb |
| FVM | 22.96 | 326 | P | 31 | 47.00 | -0.7 | ALOJ | 62.89 | 58 | iP | 37 | 11.40 | 1.2 | LSD | 70.38 | 48 | P | 37 | 58.46 | 0.8 |
| | 1.0s | | 40.00nm | | | 4.8mb | ATEJ | 62.98 | 58 | iP | 37 | 11.50 | 0.7 | PZZ | 70.48 | 49 | P | 37 | 58.36 | 0.2 |
| DLA | 23.88 | 347 | P | 31 | 56.40 | -0.2 | ALE | 63.06 | 2 | ePc | 37 | 09.70 | -0.7 | RSP | 70.49 | 48 | P | 37 | 58.67 | 0.5 |
| LDN | 23.97 | 348 | P | 31 | 58.35 | 0.8 | | 0.8s | | 18.00nm | | | 5.2mb | FEL | 70.62 | 45 | P | 37 | 58.48 | -0.4 |
| VVO | 24.46 | 314 | ePc | 32 | 03.20 | 0.9 | ACHM | 63.11 | 58 | iP | 37 | 12.00 | 0.4 | SBF | 70.82 | 49 | iPc | 38 | 00.00 | -0.1 |
| RLO | 24.46 | 316 | e(P) | 32 | 04.10 | 1.8 | APHE | 63.24 | 58 | iP | 37 | 13.00 | 0.5 | | 0.8s | | 14.50nm | | | 5.0mb |
| PTN | 24.81 | 359 | eP | 32 | 06.50 | 1.0 | EKA | 63.36 | 37 | P | 37 | 12.00 | -0.8 | NB2 | 70.85 | 31 | P | 38 | 00.60 | 0.7 |
| LNO | 24.82 | 315 | iPc | 32 | 06.70 | 1.1 | | 0.6s | | 16.90nm | | | 5.3mb | ORX | 70.93 | 47 | P | 37 | 58.77 | -2.1 |
| TUL | 24.82 | 315 | iPc | 32 | 06.60 | 0.9 | TOA | 64.28 | 330 | eP | 37 | 19.70 | 0.9 | NRA0 | 71.04 | 31 | P | 38 | 01.50 | 0.5 |
| | 0.6s | | 98.90nm | | | 5.5mb | LPF | 64.54 | 45 | iPc | 37 | 20.10 | -0.6 | ROB | 71.06 | 49 | P | 38 | 01.23 | -0.3 |
| Z | 18s | | 2.15um | | | 4.7msz | | 0.9s | | 19.60nm | | | 5.1mb | FIN | 71.31 | 49 | P | 38 | 01.64 | -1.4 |
| | | | i | 32 | 21.00 | | GRR | 64.66 | 45 | iPc | 37 | 20.90 | -0.5 | MDI | 72.10 | 47 | Pc | 38 | 06.50 | -1.1 |
| MIM | 25.86 | 9 | eP | 32 | 16.20 | 0.9 | | 0.9s | | 32.70nm | | | 5.3mb | GRF | 72.43 | 43 | eP | 38 | 12.00 | 2.4 |
| GAC | 25.95 | 358 | eP | 32 | 16.50 | 0.3 | FLN | 64.89 | 45 | iPc | 37 | 22.50 | -0.4 | | 1.1s | | 49.00nm | | | 5.3mb |
| MEO | 26.17 | 310 | ePc | 32 | 17.90 | -0.4 | | 0.7s | | 22.00nm | | | 5.3mb | MOX | 72.52 | 42 | iPd | 38 | 10.50 | 0.4 |
| | 0.6s | | 8.80nm | | | 4.5mb | LDF | 65.14 | 45 | iPc | 37 | 24.10 | -0.4 | | 1.6s | | 52.00nm | | | 5.2mb |
| ATB | 31.54 | 134 | iPc | 33 | 05.30 | -1.3 | | 0.7s | | 22.00nm | | | 5.3mb | GRB3 | 72.87 | 43 | eP | 38 | 12.00 | -0.1 |
| ALO | 32.14 | 305 | eP | 33 | 12.00 | 0.0 | MFF | 65.21 | 47 | iPc | 37 | 24.50 | -0.5 | | 1.1s | | 49.00nm | | | 5.3mb |
| | 1.0s | | 12.50nm | | | 4.7mb | | 1.1s | | 43.90nm | | | 5.4mb | KUK | 72.89 | 89 | eP | 38 | 11.50 | -1.4 |
| GLD | 33.18 | 314 | P | 33 | 20.50 | -0.5 | FBA | 65.32 | 333 | eP | 37 | 24.80 | -0.6 | KOGH | 73.04 | 90 | eP | 38 | 13.00 | -0.8 |
| | 1.2s | | 76.77nm | | | 5.4mb | | | i | 37 | 41.60 | | LEGH | 73.24 | 90 | eP | 38 | 14.00 | -0.9 | |
| | | | pP | 33 | 36.00 | 63km | PMR | 65.63 | 330 | ePc | 37 | 27.70 | 0.3 | CLL | 73.26 | 41 | iPc | 38 | 13.90 | -0.4 |
| GOL | 33.26 | 314 | P | 33 | 21.00 | -0.8 | | 0.9s | | 22.90nm | | | 5.2mb | | 1.9s | | 66.00nm | | | 5.2mb |
| | 1.0s | | 60.00nm | | | 5.4mb | EPF | 65.79 | 51 | iPc | 37 | 29.10 | 0.2 | SHGH | 73.28 | 90 | P | 38 | 15.00 | -0.1 |
| | | | pP | 33 | 36.50 | 63km | | 1.0s | | 30.00nm | | | 5.2mb | BRG | 73.93 | 41 | iPc | 38 | 18.60 | 0.4 |
| RSON | 34.66 | 338 | P | 33 | 32.00 | -1.3 | LFF | 65.93 | 49 | iPc | 37 | 29.40 | -0.2 | | 1.4s | | 52.00nm | | | 5.3mb |
| | 0.8s | | 33.45nm | | | 5.3mb | | 1.0s | | 49.60nm | | | 5.5mb | KHC | 74.05 | 43 | iPc | 38 | 20.00 | 1.0 |
| | | | pP | 33 | 47.00 | 60km | LPO | 66.27 | 49 | iPc | 37 | 31.50 | -0.3 | | 1.0s | | 17.00nm | | | 4.9mb |
| SCH | 35.53 | 8 | eP | 33 | 41.00 | 0.3 | | 0.9s | | 27.50nm | | | 5.2mb | KBA | 74.32 | 45 | iPc | 38 | 20.70 | -0.1 |
| ZOBO | 36.26 | 170 | Pc | 33 | 48.00 | 0.2 | LSF | 66.38 | 47 | iPc | 37 | 31.90 | -0.7 | | 1.3s | | 30.00nm | | | 5.1mb |
| Z | 24s | | 0.58um | | | 4.3mszX | RJF | 66.45 | 48 | eP | 37 | 32.50 | -0.5 | | | i | | | | |
| | | | S | 39 | 28.00 | | | 1.1s | | 31.20nm | | | 5.2mb | PRU | 74.48 | 42 | Pc | 38 | 22.00 | 0.5 |
| | | | LR | 45 | 28.00 | | | 1.1s | | 32.70nm | | | 5.2mb | | 1.0s | | 26.00nm | | | 5.1mb |
| LPB | 36.52 | 170 | P | 33 | 51.00 | 1.1 | TCF | 66.85 | 47 | iPc | 37 | 34.90 | -0.7 | RBL | 74.60 | 46 | P | 38 | 22.20 | -0.1 |
| | 1.4s | | 279.07nm | | | 6.0mb | | 1.1s | | 38.80nm | | | 5.4mb | ASS | 74.70 | 49 | Pc | 38 | 22.00 | -1.0 |
| Z | 24s | | 0.78um | | | 4.4mszX | CAF | 66.87 | 49 | iPc | 37 | 35.30 | -0.4 | ARV | 74.81 | 49 | Pd | 38 | 22.90 | -0.6 |
| | | | LR | 45 | 34.00 | | | 1.0s | | 49.60nm | | | 5.5mb | MNS | 74.87 | 50 | Pc | 38 | 23.50 | -0.4 |
| CNCB | 36.81 | 170 | iPc | 33 | 53.00 | 0.5 | MAF | 67.10 | 47 | iPc | 37 | 36.60 | -0.5 | VOY | 74.91 | 46 | ePc | 38 | 24.30 | 0.1 |
| BW06 | 37.48 | 316 | P | 33 | 57.90 | 0.4 | | 1.3s | | 28.80nm | | | 5.1mb | CEY | 75.34 | 46 | eP | 38 | 27.30 | 0.8 |
| | 1.2s | | 35.96nm | | | 5.2mb | KDC | 67.25 | 325 | eP | 37 | 37.90 | 0.1 | LJU | 75.34 | 46 | e(P)c | 38 | 26.60 | 0.1 |
| | | | pP | 34 | 13.00 | 59km | BGF | 67.27 | 47 | iPc | 37 | 37.50 | -0.7 | KSP | | | | | | |

NUR 77.40 30 iP 38 38.10 0.5
 KJF 77.59 26 iP 38 39.60 1.0
 0.9s 32.10nm 5.3mb
 KRA 77.84 41 iPd 38 41.40 1.1
 0.9s 43.00nm 5.4mb
 TDS 78.23 52 P 38 43.30 0.6
 SPC 78.28 42 iP 38 44.60 1.6
 PSZ 78.41 43 eP 38 45.00 1.4
 BZS 80.23 45 eP 38 55.00 1.7
 OHR 81.06 50 eP 38 59.70 1.8
 SKO 81.25 49 iP 38 59.80 1.0
 VAY 82.26 49 eP 39 05.40 1.3
 MLR 83.13 44 iPc 39 11.00 2.3
 VRI 83.51 44 iPc 39 12.50 2.1
 BNG 91.26 85 iPc 39 48.90 0.5
 0.5s 30.00nm 5.9mb
 GKN 128.41 24 PKP 45 49.90 -0.2
 0.9s 34.00nm
 KKN 128.85 23 PKP 45 50.50 -0.5
 DMN 128.95 24 PKP 45 50.90 -0.3
 GUN 128.96 23 PKP 45 51.10 -0.2
 PKI 129.09 23 PKP 45 51.00 -0.6
 GBA 136.81 42 PKPd 46 05.60 -0.5
 0.7s 3.20nm
 STK 145.58 242 ePKP 46 21.00 -0.2
 ADE 147.10 236 iPKPc 46 26.60 2.9
 NNT 147.40 11 iPKPc 46 27.20 2.6
 WB5 152.98 265 ePKP 46 32.90 0.0
 WB2 153.00 265 ePKP 46 32.90 0.0
 WRA 153.01 265 PKPc 46 32.60 -0.4
 1.1s 8.70nm
 ASPA 153.46 256 iPKPc 46 40.30 6.8X
 epP 46 54.40
 S.D. = 0.9 on 179 of 202 obs.

FEB 12, 1989 16h 24m 37.06± 1.10s
 7.342 S ± 5.5km 128.529 E ± 7.7km
 DEPTH = 139.6 ± 12.4 km
 4.8mb (16 obs.)

BANDA SEA (280)

TLE 4.52 68 iPd 25 46.90 2.1
 IS 26 35.00
 MTN 6.04 155 iPd 26 05.90 0.6
 0.6s 217.00nm 5.6mb
 KNA 8.36 178 iPc 26 36.20 -0.4
 0.3s 49.00nm 5.6mb
 WB5 13.69 156 eP 27 44.10 -2.5
 i 27 49.90
 P 30 06.00
 WRA 13.74 156 Pc 27 44.40 -2.8
 0.3s 2.20nm 4.0mb
 WB2 13.74 156 eP 27 44.10 -3.2X
 i 27 49.90
 eS 30 06.00
 TRT 15.76 268 ePc 28 07.00 -5.7X
 MBL 16.11 211 eP 28 17.00 0.1
 0.3s 8.00nm 4.5mb
 OIS 16.96 142 eP 28 27.00 -0.4
 eS 31 24.00
 ASPA 17.03 163 iPd 28 29.20 0.9
 0.6s 29.00nm 4.8mb
 PMG 18.54 98 eP 28 44.00 -1.7
 0.8s 223.88nm 5.5mb
 WARB 18.82 185 eP 28 42.00 -6.7X
 eS 32 02.00
 NANU 19.64 218 iPd 28 57.80 0.6
 0.3s 17.00nm 4.9mb
 CTA 21.35 128 iPc 29 15.90 1.5
 0.8s 6.34nm 4.1mb
 MEKA 21.39 205 eP 29 16.00 1.2
 0.3s 8.00nm 4.6mb
 FORR 23.39 181 eP 29 35.00 0.8
 COOL 24.42 196 eP 29 44.00 -0.1
 0.6s 17.00nm 4.7mb
 MRWA 24.76 207 eP 29 48.00 0.7
 eS 34 31.00
 BAL 25.66 204 iPd 29 55.70 0.1
 0.4s 7.00nm 4.6mb

KLB 26.14 201 iPd 30 00.40 0.5
 0.4s 10.00nm 4.8mb
 MUN 27.07 203 eP 30 08.00 -0.4
 eS 35 22.00
 STK 27.29 155 eP 30 11.00 0.7
 NWA0 27.53 201 iPc 30 12.70 0.1
 0.4s 12.00nm 4.9mb
 RKG 28.65 200 iPd 30 28.10 5.5X
 BRS 30.43 134 iPd 30 38.90 0.4
 PSI 31.18 288 ePd 30 45.70 0.6
 CAN 33.59 149 eP 31 09.30 3.4X
 eScP 37 12.80
 CHG 39.07 312 iPc 31 53.20 1.0
 1.1s 18.67nm 4.8mb
 SHL 48.37 314 iP 33 06.40 -0.5
 LZH 49.04 333 eP 33 12.00 0.1
 1.5s 0.02nm 1.7mb X
 GTA 53.58 332 iPc 33 45.50 -0.4
 GUN 54.09 312 P 33 49.30 -0.8
 0.4s 7.00nm 4.9mb
 PKI 54.25 312 P 33 50.30 -1.0
 KKN 54.46 312 P 33 51.80 -0.9
 DMN 54.49 311 P 33 52.20 -0.8
 GBA 54.83 292 P 33 56.00 0.8
 GKN 55.06 312 P 33 55.90 -1.0
 0.4s 12.00nm 5.1mb
 HYB 55.16 297 eP 33 57.00 -0.7
 MHI 77.77 309 iPc 36 21.00 0.5
 KIC 133.61 272 PKP 43 40.00 0.3
 LIC 133.88 272 PKP 43 40.70 0.5
 TIC 133.90 272 PKP 43 40.80 0.6
 CNCB 150.97 146 PKP 44 18.00 7.7X
 LPB 151.13 145 ePKP 44 15.00 4.6X
 ZOBO 151.33 145 PKP 44 18.00 7.1X
 S.D. = 1.1 on 37 of 45 obs.

FEB 12, 1989 16h 50m 04.88± 1.68s
 42.372 N ± 5.2km 126.748 W ± 16.3km
 DEPTH = 10.0km (geophysicist)
 4.1mb (1 obs.)

OFF COAST OF OREGON (30)

FHC 2.60 126 eP 50 46.90 -0.8
 WDC 3.63 118 eP 51 03.60 1.2
 LBFM 3.77 104 eP 51 05.00 0.5
 GT2 4.27 48 eP 51 11.59 0.1
 MIN 4.37 116 eP 51 13.60 0.7
 PGO 4.38 44 eP 51 14.03 1.1
 NLO 4.41 31 eP 51 12.55 -0.8
 VBEM 4.61 53 eP 51 16.93 0.6
 TDH 4.62 49 eP 51 16.49 0.0
 VLMM 4.64 45 eP 51 16.87 0.1
 RVW 4.75 36 eP 51 18.65 0.5
 VLL 4.79 48 eP 51 19.22 0.3
 BMW 4.81 30 eP 51 17.73 -1.4
 VFP 4.82 51 eP 51 18.82 -0.6
 ORV 4.87 124 e(P) 51 18.20 -1.7
 MTMW 4.90 40 eP 51 19.98 -0.4
 FL2 4.96 38 eP 51 21.14 -0.1
 APM 4.96 46 eP 51 21.41 0.1
 SHW 5.01 39 eP 51 22.29 0.4
 YEL 5.04 39 eP 51 23.90 1.4
 ERK 5.04 37 eP 51 21.80 -0.7
 STD 5.05 38 eP 51 22.74 0.3
 ESD 5.05 39 eP 51 22.94 0.4
 SOSW 5.09 39 eP 51 23.78 0.7
 GULW 5.13 44 eP 51 23.73 0.0
 TDL 5.14 38 eP 51 23.50 -0.3
 KOSW 5.23 37 eP 51 24.63 -0.4
 CPW 5.27 28 eP 51 24.31 -1.3
 VTHM 5.29 56 eP 51 24.93 -0.9
 ASR 5.29 43 eP 51 25.62 -0.3
 CWZ 5.33 38 eP 51 26.97 0.5
 LMW 5.35 35 eP 51 27.04 0.3
 GL2 5.57 48 eP 51 29.21 -0.7
 GLK 5.57 40 eP 51 29.65 -0.3
 LON 5.62 37 eP 51 30.50 -0.1
 CMB 6.52 130 eP 51 47.90 4.7X
 KVN 7.36 114 eP 51 55.30 0.2
 FFC 20.40 44 eP 54 44.50 0.1
 0.7s 7.00nm 4.1mb
 YKA 21.40 16 P 54 55.80 1.3
 S.D. = 0.7 on 38 of 39 obs.

? FEB 12, 1989 17h 53m 18.94± 1.96s
 42.987 N ± 31.2km 16.220 E ± 31.4km

DEPTH = 10.0km (geophysicist)
 ADRIATIC SEA (382)
 ML 2.3 (KBA).

AOI 1.99 287 ePg 54 14.65 21.6X
 iSg 54 36.74
 VBY 2.61 345 ePg 54 02.80 0.9
 iSg 54 12.60
 PTJ 2.92 356 e(Pg) 54 12.70 6.4X
 eSg 54 30.70
 CEY 3.04 336 ePg 54 06.40 -1.5
 0.5s 50.00nm
 eSg 54 20.50
 TIR 3.17 120 ePg 54 09.70 -0.1
 iSg 54 25.40
 TRI 3.24 328 P 54 09.80 -1.0
 eSn 54 25.80
 LJU 3.28 339 ePn 54 11.70 0.2
 eSg 54 31.00
 PGD 3.39 287 P 54 30.00 16.8X
 eSn 54 57.50
 VOY 3.47 332 ePn 54 12.60 -1.5
 eSn 54 33.70
 RBL 3.94 332 P 54 20.50 -0.3
 eSn 54 43.20
 FVI 4.36 327 P 54 25.70 -0.9
 eSn 54 52.50
 CTI 4.48 315 Pc 54 29.80 1.4
 eSn 54 57.70
 KBA 4.57 335 ePn 54 32.50 2.7
 iPg 54 36.20
 iSg 55 06.60
 i 55 09.20
 S.D. = 1.5 on 10 of 13 obs.

& FEB 12, 1989 19h 49m 05.80s
 37.833 N 122.602 W
 DEPTH = 7.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 3.1 (BRK).
 Mo=5.4*10**13 Nm (BRK). Felt
 (III) at San Francisco.

BRK 0.27 81 iPc 49 11.40 0.0
 iS 49 15.30
 BKS 0.29 81 iPc 49 11.90 0.1
 iS 49 16.20
 ZSP 0.30 68 iPd 49 12.20 0.4
 PCC 0.38 152 ePc 49 13.00 -0.4
 NWRM 0.66 340 eP 49 18.80 -0.3
 MHC 0.91 122 iPc 49 22.90 -0.6
 iS 49 35.30
 GCC 0.94 149 eP 49 22.60 -1.3
 eS 49 36.80
 ARN 0.98 119 eP 49 23.50 -1.2
 SAO 1.41 139 eP 49 29.10 -2.8
 CMB 1.76 83 eP 49 35.80 -1.2
 iS 49 58.70
 PRS 1.79 146 ePc 49 35.00 -2.4
 KVN 3.74 70 eP 50 00.00 -5.4
 12 obs. associated

& FEB 12, 1989 19h 49m 50.40s
 37.847 N 122.602 W
 DEPTH = 5.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 2.9 (BRK).
 Mo=3.7*10**13 Nm (BRK).

BRK 0.27 84 iPc 49 55.90 0.0
 iS 50 00.00
 ZSP 0.29 70 iPd 49 57.10 0.8
 BKS 0.29 84 iPc 49 56.40 0.1
 iS 50 00.80
 PCC 0.39 153 iPc 49 57.90 -0.3
 iS 50 03.80
 NWRM 0.65 340 eP 50 03.50 0.1
 MHC 0.91 123 iPc 50 07.80 -0.6
 eS 50 20.60
 ARN 0.98 120 eP 50 08.50 -1.1
 SAO 1.42 139 i(P) 50 13.70 -3.2
 CMB 1.76 83 e(P) 50 21.00 -0.8
 iS 50 43.20
 9 obs. associated

& FEB 12, 1989 19h 50m 35.40s
 37.838 N 122.603 W

12d 19h

DEPTH = 6.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.7 (BRK).
Mo=2.5*10**13 Nm (BRK).

BRK 0.27 82 iPc 50 41.10 0.1
iS 50 44.60
BKS 0.29 82 iPc 50 41.45 0.1
iS 50 45.90
ZSP 0.29 69 iPd 50 41.90 0.5
iS 50 47.40
PCC 0.38 152 iPc 50 42.80 -0.3
iS 50 48.70
NWRM 0.66 340 eP 50 48.50 -0.1
MHC 0.91 123 iPc 50 52.70 -0.6
eS 51 05.45
GCC 0.94 149 e(P) 50 52.70 -1.0
ARN 0.98 120 eP 50 53.80 -0.6
SAO 1.41 139 iP 51 00.70 -1.0
CMB 1.76 83 e(P) 51 05.80 -0.9
iS 51 28.20

10 obs. associated

FEB 12, 1989 20h 03m 16.74±0.36s
2.742 N ± 6.4km 79.727 W ± 5.5km
DEPTH = 33.0km (normal)
5.0mb (37 obs.) 4.1MsZ (1 abs.)
SOUTH OF PANAMA (83)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 17C
Centroid Location:
Origin Time 20:03:15.0 0.8
Lat 2.41N 0.07 Lon 79.44W 0.09
Dep 33.0 FLX Half-duration 1.5
Moment Tensor: Scale 10**16 Nm
Mrr=-5.09 0.33 Mtt=-0.51 0.39
Mff= 5.60 0.55 Mrt= 1.66 0.76
Mrf= 0.46 1.05 Mtf=-0.27 0.38
Principal Axes:
T Val= 5.63 Plg= 2 Azm=268
N 0.03 18 359
P -5.65 72 172
Best Double Couple: Mo=5.6*10**16
NP1: Strike=340 Dip=46 Slip=-116
NP2: 195 50 -66

PSO 2.85 123 eP 03 59.50 -1.8
ANCC 2.96 75 iPc 04 00.50 -2.0
SALC 3.04 86 iPc 04 01.25 -2.5
HOOC 3.17 77 iPc 04 05.50 -0.3
CLMC 3.36 70 iPc 04 06.80 -1.5
PURC 3.39 97 iPc 04 08.05 -1.0
DIAC 3.57 81 eP 04 10.00 -1.3
HOBC 3.93 66 eP 04 14.10 -2.3
BOG 5.95 72 eP 04 47.00 1.8
eS 06 00.00
DVD 6.27 335 eP 04 44.00 -5.4X
i 05 44.50
i 05 47.80
FUO 6.56 65 eP 04 46.00 -7.8X
BMG 7.90 57 eP 05 18.00 5.6X
TPP 19.64 67 eP 07 48.10 2.3
TRN 19.81 66 eP 07 47.59 0.0
TBH 20.06 67 eP 07 52.21 2.0
ARE 20.74 157 eP 07 57.00 -0.7
SVB 21.05 59 eP 08 01.11 0.6
ZOBO 22.10 149 P 08 10.20 -1.4
Z 20s 0.79um 4.1MsZ
LR 16 12.00
LPB 22.33 149 P 08 14.00 0.2
1.0s 80.00nm 5.1mb
Z 15s 1.33um 4.5MsZ
LR 17 44.00
CNCB 22.63 150 Pc 08 17.00 0.2
CCH 24.07 147 eP 08 31.60 1.0
ATB 28.13 102 e(P) 09 06.40 -1.7
VVO 35.67 337 eP 10 12.10 -1.9
TUL 36.20 338 eP 10 17.50 -0.9
1.0s 16.70nm 4.9mb
e 10 32.00
LNO 36.20 338 eP 10 13.90 -4.4X
SIO 36.25 337 e(P) 10 18.00 -0.9
MEO 36.39 333 eP 10 18.00 -2.0
0.7s 13.40nm 5.0mb
ACO 38.24 334 eP 10 35.50 -0.1
1.0s 14.80nm 4.8mb

ALO 40.54 325 eP 10 55.00 0.1
1.0s 26.75nm 4.9mb
ITA 42.34 128 eP 11 09.10 -0.9
e 11 11.40
e 11 16.40
BMA 42.94 128 eP 11 16.30 1.7
GAC 42.95 4 eP 11 15.50 1.3
LRM 51.57 331 eP 12 22.10 0.0
SCH 52.97 9 eP 12 31.00 -1.3
SES 54.36 336 ePc 12 42.70 0.1
FFC 54.90 344 eP 12 45.00 -1.4
1.0s 14.00nm 4.9mb
EDM 57.44 337 eP 13 03.00 -1.7
PNT 57.49 330 eP 13 04.00 -1.0
1.1s 20.00nm 5.1mb
FRB 61.42 6 eP 13 30.00 -1.8
YKA 65.00 343 P 13 53.70 -1.8
LIC 74.50 84 Pc 14 54.22 -0.3
TIC 74.50 84 Pc 14 54.02 -0.5
INK 74.72 342 eP 14 54.00 -0.7
KIC 74.79 84 Pc 14 55.96 -0.2
1.0s 51.00nm 5.5mb
MBC 76.69 351 eP 15 04.00 -1.8
1.0s 28.00nm 5.2mb
KUK 79.14 84 eP 15 20.00 -0.4
ALE 80.08 2 eP 15 23.00 -1.2
0.8s 6.00nm 4.6mb
EKA 80.12 34 Pc 15 25.10 0.2
1.1s 20.00nm 5.0mb
LPF 80.40 42 eP 15 26.70 0.2
GRR 80.56 42 eP 15 27.80 0.4
0.9s 27.50nm 5.3mb
FLN 80.85 41 eP 15 29.50 0.6
0.9s 20.90nm 5.1mb
MFF 80.85 43 eP 15 29.40 0.4
0.8s 11.80nm 4.9mb
EPF 80.87 47 eP 15 30.50 1.3
1.2s 19.00nm 5.0mb
LDF 81.07 41 eP 15 30.60 0.5
0.9s 27.50nm 5.3mb
LFF 81.32 45 eP 15 32.20 0.8
0.8s 8.00nm 4.8mb
LPO 81.62 45 eP 15 33.70 0.7
1.0s 20.00nm 5.1mb
RJF 81.90 45 eP 15 35.10 0.7
1.0s 9.60nm 4.8mb
LSF 81.98 44 eP 15 35.40 0.5
CAF 82.26 45 eP 15 37.30 0.9
1.1s 10.70nm 4.8mb
TCF 82.45 44 eP 15 37.60 0.3
0.8s 5.30nm 4.7mb
MAF 82.69 44 eP 15 39.10 0.5
0.8s 7.20nm 4.8mb
BGF 82.91 44 eP 15 40.30 0.6
1.1s 24.40nm 5.2mb
AVF 83.27 43 eP 15 41.80 0.3
1.1s 10.70nm 4.9mb
SSF 83.39 43 eP 15 42.30 0.2
0.9s 5.50nm 4.7mb
SMF 83.60 44 eP 15 43.60 0.4
1.1s 14.60nm 5.0mb
LOR 83.64 43 eP 15 43.50 0.1
0.7s 3.70nm 4.6mb
DOU 84.26 40 Pc 15 47.70 1.3
ENN 85.13 39 eP 15 52.00 1.2
0.8s 15.00nm 5.2mb
MEM 85.18 40 P 15 53.50 2.5
WLF 85.25 41 P 15 53.00 1.6
LRG 85.29 47 eP 15 52.70 1.0
1.0s 21.60nm 5.3mb
HAU 85.35 42 eP 15 52.90 0.9
LMR 85.39 47 eP 15 53.10 0.8
FRF 85.49 47 eP 15 53.60 0.8
0.9s 14.40nm 5.2mb
LPG 85.59 45 eP 15 55.10 1.5
1.1s 12.20nm 5.0mb
BSF 85.64 42 eP 15 54.10 0.5
0.8s 6.40nm 4.9mb
WTS 85.72 38 eP 15 54.00 0.3
0.8s 44.00nm 5.7mb
CDF 85.97 42 eP 15 55.60 0.4
0.9s 7.80nm 4.9mb
SBF 86.07 46 eP 15 56.20 0.5
1.1s 29.30nm 5.4mb
NB2 88.08 29 P 16 04.60 -0.4
0.9s 11.70nm 5.2mb
CLL 89.59 39 eP 16 14.00 1.6

KHC 90.11 41 eP 16 16.90 2.0
SPA 92.72 180 e(P) 16 34.70 8.0X
1.0s 10.00nm 5.2mb
SALJ 109.82 55 Pdffd17 42.50 -1.8
BURJ 109.83 54 Pdffd17 45.10 0.9
KFNJ 109.86 55 Pdffd17 42.90 -1.4
MASJ 109.93 55 Pdffd17 44.90 0.1
JARJ 109.97 54 Pdffd17 47.00 2.1
GKN 145.93 25 PKP 22 54.20 -0.6
KKN 146.39 24 PKP 22 56.20 0.6
1.1s 61.00nm
DMN 146.47 25 PKP 22 56.00 0.2
GUN 146.52 24 PKP 22 56.30 0.3
PKI 146.63 24 PKP 22 56.10 -0.1
HYB 150.67 46 ePKP 23 07.00 4.7X
e 23 14.50
SHL 150.71 16 iPKP 23 02.50 0.1
GBA 152.13 54 PKP 23 11.30 6.8X
S.D. = 1.2 on 89 of 96 obs.

% FEB 12, 1989 21h 11m 31.64±3.44s
18.606 N ±19.4km 65.952 W ±17.2km
DEPTH = 10.0km (geophysicist)

PUERTO RICO REGION (90)
LPR 0.31 165 P 11 38.00 0.0
S 11 50.00
CSB 0.37 212 P 11 39.20 -0.1
S 11 54.00
SJG 0.53 201 iP 11 42.50 0.2
S 11 56.80
APR 0.75 259 P 11 47.20 0.8
MCP 1.11 261 P 11 52.00 -0.6
MGP 1.23 241 P 11 54.20 -0.4
S.D. = 0.6 on 6 of 6 obs.

? FEB 12, 1989 22h 35m 45.22±2.43s
24.112 S ±28.2km 64.836 W ±22.5km
DEPTH = 31.2 ± 12.7 km

SALTA PROVINCE, ARGENTINA (129)
HJA 1.03 330 iPd 36 02.60 -1.0
CCH 6.81 349 eP 37 25.00 -0.8
CNCB 7.84 337 P 37 42.00 1.5
LPB 8.14 337 eP 37 50.00 5.4X
LR 40 46.00
ZOBO 8.39 338 P 37 51.80 3.6X
Z 16s 0.45um
LR 40 56.00
ITB1 9.54 95 e(P) 38 03.10 -0.4
ITB 9.71 96 e(P) 38 06.10 0.2
VAO 16.42 90 eP 40 05.90 30.8X
ITA 18.58 89 eP 40 26.10 23.8X
BMA 19.04 90 eP 40 28.20 20.7X
HYB 145.20 94 ePKP 55 22.00 -0.1
S.D. = 1.4 on 6 of 11 obs.

* FEB 12, 1989 23h 44m 55.49±1.07s
30.041 N ±13.6km 89.958 E ± 9.9km
DEPTH = 33.0km (normal)
3.5mb (1 abs.)

TIBET (306)
GUN 4.16 240 P 46 00.20 1.7
KKN 4.67 242 P 46 06.30 0.5
PKI 4.69 239 P 46 07.20 1.1
SHL 4.77 159 eP 46 07.00 -0.1
eSg 48 22.00
DMN 4.90 242 P 46 09.30 0.3
GKN 5.08 248 P 46 10.70 -0.8
NDI 11.20 266 eP 47 34.00 -2.3
eS 49 31.00
HYB 16.32 222 eP 48 42.00 -1.9
GBA 20.04 218 P 49 29.00 0.4
0.6s 1.60nm 3.5mb
BJI 23.60 58 eP 50 04.00 -0.1
MHI 26.18 292 eP 50 30.00 1.1
NIJ 41.08 67 P 52 54.80 17.1X
S.D. = 1.4 on 11 of 12 obs.

FEB 12, 1989 23h 49m 17.00±0.24s
50.995 N ± 5.0km 84.172 E ± 5.3km
DEPTH = 33.0km (normal)
4.6mb (15 obs.)

CENTRAL USSR (326)
WMQ 7.56 160 eP 51 05.80 -2.0

| | | | | | | | | | | | | | | | | | | | |
|-----|-------|---------|------|----|-------|----------|----------------|--------------------------------|--------------------|--------|--------|-------|------|--|--|-------|----|-------|-------|
| KSH | 12.89 | 210 | P | 52 | 26.50 | 5.9X | ALO | 93.92 | 9 | eP | 02 | 34.00 | 1.4 | | | eSn | 36 | 37.60 | |
| GTA | 15.95 | 131 | P | 53 | 03.00 | 2.4 | | S.D. = 1.0 | on | 62 | of | 66 | obs. | | | Pc | 36 | 04.40 | -0.1 |
| N | 10s | 0.70um | | | | | | | | | | | | | | | | | |
| NDI | 22.89 | 196 | iPc | 54 | 18.00 | -0.7 | ? FEB 13, 1989 | 00h | 08m | 36.63± | 4.55s | | | | | ePn | 36 | 07.00 | 1.3 |
| GKN | 22.97 | 179 | P | 54 | 19.40 | -0.2 | | 6.855 S ± 41.5km | 129.449 E ± 43.8km | | | | | | | eSn | 36 | 48.00 | |
| GUN | 23.09 | 176 | P | 54 | 20.20 | -0.8 | | DEPTH = 214.6 ± 53.5 km | | | | | | | | P | 36 | 07.65 | 0.0 |
| KKN | 23.19 | 178 | P | 54 | 21.00 | -0.8 | | BANDA SEA | | | | (280) | | | | P | 36 | 09.00 | 0.5 |
| | 0.6s | 22.00nm | | | | 4.8mb | | | | | | | | | | eSn | 36 | 50.40 | |
| DMN | 23.37 | 178 | P | 54 | 25.20 | 1.6 | MTN | 6.18 | 165 | iPd | 10 | 07.10 | 0.0 | | | iPnd | 36 | 09.30 | 0.5 |
| PKI | 23.41 | 177 | P | 54 | 25.10 | 1.0 | | | | eS | 11 | 11.00 | | | | iPg | 36 | 19.30 | |
| | 0.5s | 9.00nm | | | | 4.5mb | KNA | 8.86 | 184 | eP | 10 | 42.00 | 0.0 | | | iSn | 36 | 50.40 | |
| TIY | 24.00 | 113 | eP | 54 | 30.60 | 1.1 | | | | eS | 12 | 15.00 | | | | i | 37 | 02.50 | |
| E | 10s | 0.50um | | | | | WB5 | 13.80 | 160 | eP | 11 | 45.10 | 0.3 | | | ePn | 36 | 09.00 | -0.3 |
| QUE | 24.44 | 218 | eP | 54 | 34.40 | 0.5 | | | | eS | 14 | 12.00 | | | | eSn | 36 | 52.40 | |
| XAN | 24.72 | 124 | eP | 54 | 36.90 | 0.5 | WB2 | 13.85 | 160 | eP | 11 | 45.10 | -0.3 | | | P | 36 | 11.30 | 1.4 |
| BJI | 24.76 | 104 | eP | 54 | 37.50 | 0.8 | | | | eS | 14 | 12.00 | | | | ePn | 36 | 11.00 | 0.7 |
| CD2 | 24.79 | 137 | eP | 54 | 37.30 | 0.2 | CHG | 39.43 | 311 | eP | 15 | 47.60 | 0.0 | | | eSn | 36 | 55.00 | |
| SHL | 26.07 | 164 | iP | 54 | 48.60 | -0.7 | | S.D. = 0.5 | on | 5 | of | 5 | obs. | | | ePn | 36 | 11.50 | 1.2 |
| SUF | 32.64 | 314 | iP | 55 | 47.40 | -0.1 | | | | | | | | | | eSn | 36 | 55.00 | |
| NUR | 33.69 | 310 | iP | 55 | 56.10 | -0.4 | | FEB 13, 1989 | 00h | 35m | 11.35± | 0.23s | | | | iPn | 36 | 10.00 | -0.9 |
| | 0.7s | 21.40nm | | | | 5.2mb | | 44.820 N ± 2.4km | 14.650 E ± 2.3km | | | | | | | e | 36 | 46.90 | |
| | | i | | | | | | DEPTH = 10.0km | (geophysicist) | | | | | | | i | 36 | 54.90 | |
| HYB | 33.80 | 190 | eP | 55 | 55.00 | -3.0X | | ADRIATIC SEA | | | | (382) | | | | i | 37 | 13.50 | |
| CHG | 34.18 | 155 | eP | 56 | 00.50 | -0.8 | | ML 4.2 (LDG), 4.1 (ZAG), 4.0 | | | | | | | | iPn | 36 | 12.40 | -0.5 |
| CFR | 37.09 | 283 | eP | 56 | 27.00 | 1.4 | | (KBA). Felt (VI) in the Senj | | | | | | | | i | 36 | 16.60 | |
| UPP | 37.25 | 310 | iP | 56 | 26.40 | -0.4 | | area, Yugoslavia. Also felt on | | | | | | | | i | 36 | 32.00 | |
| VRI | 37.62 | 285 | eP | 56 | 31.50 | 1.3 | | Krk and Rob. | | | | | | | | i | 36 | 58.50 | |
| GBA | 37.69 | 191 | Pc | 56 | 33.90 | 3.0X | | | | | | | | | | ePn | 36 | 13.20 | -0.2 |
| | 0.4s | 1.70nm | | | | 4.3mb | VBV | 0.81 | 32 | iPg | 35 | 25.70 | -1.3 | | | eSn | 37 | 01.00 | |
| MLR | 38.29 | 285 | eP | 56 | 38.00 | 2.1 | CEY | 0.93 | 350 | ePgc | 35 | 29.40 | 0.2 | | | P | 36 | 16.25 | 0.8 |
| BZS | 40.85 | 288 | eP | 56 | 59.00 | 2.1 | | | | eSg | 35 | 43.90 | | | | S | 36 | 57.00 | |
| KSP | 41.39 | 297 | eP | 57 | 02.30 | 1.0 | TRI | 1.09 | 325 | iPgc | 35 | 33.80 | 2.0 | | | ePn | 36 | 15.00 | -0.5 |
| | | e | | | | 57 13.20 | | | | iSg | 35 | 49.50 | | | | eSn | 37 | 04.00 | |
| VAY | 42.59 | 282 | eP | 57 | 12.00 | 0.7 | LJU | 1.23 | 356 | iPgc | 35 | 35.50 | 1.3 | | | ePn | 36 | 26.00 | 10.2X |
| KHC | 43.76 | 296 | eP | 57 | 22.10 | 1.4 | | | | eSg | 35 | 53.50 | | | | eSg | 37 | 25.80 | |
| | | e | | | | 59 04.00 | VOY | 1.32 | 337 | iPn | 35 | 36.90 | 1.1 | | | Pc | 36 | 18.10 | 0.2 |
| KBA | 44.96 | 294 | e(P) | 57 | 32.00 | 1.4 | | | | eSn | 35 | 57.30 | | | | eSn | 37 | 05.90 | |
| | 1.0s | 5.30nm | | | | 4.4mb | ZAG | 1.37 | 43 | iPgc | 35 | 36.70 | 0.3 | | | P | 36 | 16.50 | -2.7 |
| | | i | | | | | | | | iSg | 35 | 54.50 | | | | iPn | 36 | 20.10 | 0.7 |
| CDF | 47.67 | 299 | eP | 57 | 51.60 | -0.3 | PTJ | 1.42 | 40 | iPgd | 35 | 37.20 | -0.1 | | | e | 36 | 25.40 | |
| BSF | 48.26 | 298 | eP | 57 | 56.20 | -0.3 | AOI | 1.48 | 211 | iPgd | 35 | 39.21 | 1.2 | | | Sg | 37 | 24.50 | |
| HAU | 48.41 | 299 | eP | 57 | 57.50 | -0.1 | | | | iSg | 36 | 00.90 | | | | ePn | 36 | 20.00 | -0.6 |
| LPG | 49.63 | 296 | eP | 58 | 07.60 | 0.3 | RBL | 1.79 | 335 | P | 35 | 44.40 | 1.8 | | | eSn | 37 | 12.00 | |
| | 0.7s | 11.00nm | | | | 5.0mb | | | | eSn | 36 | 07.50 | | | | ePn | 36 | 25.40 | 4.2X |
| LOR | 50.21 | 299 | eP | 58 | 10.30 | -1.1 | ARV | 1.80 | 224 | P | 35 | 44.10 | 1.4 | | | Pc | 36 | 22.10 | 0.1 |
| LBF | 50.32 | 299 | eP | 58 | 11.10 | -1.1 | | | | eSg | 36 | 06.80 | | | | eSn | 37 | 13.50 | |
| SSF | 50.53 | 299 | eP | 58 | 12.80 | -1.0 | RSM | 1.81 | 241 | P | 35 | 44.93 | 2.2 | | | ePn | 36 | 27.80 | 4.8X |
| | 0.7s | 2.60nm | | | | 4.3mb | VVI | 1.95 | 307 | Pc | 35 | 47.20 | 2.3 | | | P | 36 | 22.50 | -0.8 |
| SMF | 50.59 | 298 | eP | 58 | 14.30 | 0.0 | | | | eSn | 36 | 12.00 | | | | S | 37 | 06.32 | |
| | 0.7s | 2.20nm | | | | 4.3mb | CIO | 1.95 | 214 | iPnd | 35 | 45.04 | 0.1 | | | ePn | 36 | 25.20 | 1.0 |
| AVF | 50.78 | 299 | eP | 58 | 15.00 | -0.6 | | | | iSn | 36 | 12.97 | | | | P | 36 | 22.60 | -1.8 |
| | 0.8s | 3.20nm | | | | 4.3mb | HVAR | 2.09 | 141 | iPnc | 35 | 47.20 | 0.3 | | | eSn | 37 | 14.50 | |
| BGF | 51.19 | 299 | eP | 58 | 18.30 | -0.6 | | | | iSn | 36 | 15.00 | | | | Pn | 36 | 24.85 | 0.0 |
| MAF | 51.55 | 299 | eP | 58 | 21.30 | -0.3 | ALP | 2.18 | 201 | ePn | 35 | 48.19 | -0.1 | | | Sg | 37 | 20.37 | |
| LDF | 51.59 | 303 | eP | 58 | 21.10 | -0.7 | | | | iSn | 36 | 18.00 | | | | ePn | 36 | 25.00 | -0.1 |
| FLN | 51.68 | 303 | eP | 58 | 21.70 | -0.8 | SFI | 2.20 | 247 | P | 35 | 50.20 | 1.8 | | | P | 36 | 23.70 | -1.5 |
| TCF | 51.71 | 299 | eP | 58 | 22.10 | -0.7 | FVI | 2.20 | 324 | P | 35 | 50.00 | 1.5 | | | eSn | 37 | 18.00 | |
| LSF | 52.11 | 299 | eP | 58 | 25.40 | -0.4 | | | | eSn | 36 | 17.10 | | | | P | 36 | 23.83 | -1.4 |
| MBC | 52.13 | 7 | eP | 58 | 25.00 | -0.6 | ASS | 2.26 | 220 | P | 35 | 50.60 | 1.2 | | | P | 36 | 25.47 | -1.0 |
| | 0.6s | 17.00nm | | | | 5.2mb | | | | eSn | 36 | 18.40 | | | | S | 37 | 13.91 | |
| LPF | 52.42 | 302 | eP | 58 | 27.10 | -1.0 | CRE | 2.28 | 239 | P | 35 | 51.50 | 1.8 | | | ePn | 36 | 36.00 | 9.6X |
| CAF | 52.62 | 298 | eP | 58 | 29.70 | 0.0 | | | | eSn | 36 | 18.30 | | | | P | 36 | 26.60 | -0.7 |
| MFF | 52.81 | 301 | eP | 58 | 30.20 | -0.8 | PGD | 2.30 | 247 | Pc | 35 | 52.00 | 1.9 | | | ePc | 36 | 26.50 | -1.5 |
| LPO | 53.26 | 298 | eP | 58 | 34.30 | -0.1 | | | | eSn | 36 | 19.00 | | | | ePn | 36 | 29.50 | 1.2 |
| LFF | 53.35 | 298 | eP | 58 | 34.90 | -0.1 | KBA | 2.44 | 338 | iPnd | 35 | 53.60 | 1.6 | | | ePn | 36 | 40.00 | 9.5X |
| EPF | 54.78 | 297 | eP | 58 | 44.50 | -1.1 | | | | iPg | 35 | 59.70 | | | | Pg | 36 | 29.80 | -0.8 |
| | 0.8s | 4.00nm | | | | 4.5mb | | | | eSn | 36 | 25.00 | | | | Sg | 37 | 27.50 | |
| INK | 57.76 | 16 | ePd | 59 | 06.60 | 0.1 | | | | iSg | 36 | 33.00 | | | | Pn | 36 | 31.76 | -0.1 |
| | | pP | | | | 59 18.00 | 39kmX | | | Pc | 35 | 53.50 | 1.5 | | | Sg | 37 | 31.83 | |
| YKA | 65.88 | 9 | eP | 00 | 00.60 | -0.4 | | | | eSn | 36 | 23.40 | | | | P | 36 | 29.17 | -2.8 |
| YKC | 65.91 | 9 | eP | 00 | 00.30 | -0.8 | AQU | 2.63 | 201 | Pc | 35 | 55.00 | 0.4 | | | S | 37 | 20.88 | |
| BNG | 71.36 | 253 | iPd | 00 | 35.50 | -0.1 | | | | eSn | 36 | 25.00 | | | | ePn | 36 | 38.10 | 6.2X |
| | 0.6s | 8.00nm | | | | 4.9mb | FIR | 2.65 | 248 | iPnd | 35 | 57.50 | 2.7 | | | Pn | 36 | 31.80 | -0.2 |
| | | i | | | | | | | | iSn | 36 | 31.00 | | | | Sn | 37 | 30.00 | |
| FFC | 74.53 | 4 | eP | 00 | 53.00 | -0.6 | MNS | 2.82 | 211 | Pd | 35 | 58.10 | 0.7 | | | P | 36 | 31.11 | -1.0 |
| | 0.7s | 7.00nm | | | | 4.8mb | | | | eSn | 36 | 30.00 | | | | Pd | 36 | 30.80 | -1.6 |
| PNT | 78.02 | 16 | eP | 01 | 14.00 | 0.7 | MME | 2.89 | 259 | P | 36 | 00.40 | 1.8 | | | Pn | 36 | 33.37 | 0.3 |
| | 0.8s | 6.00nm | | | | 4.7mb | | | | eSn | 36 | 33.20 | | | | P | 36 | 30.91 | -2.4 |
| SES | 78.16 | 10 | ePc | 01 | 14.40 | 0.3 | AZI | 2.97 | 198 | P | 36 | 00.20 | 0.9 | | | Pn | 36 | 33.43 | -0.1 |
| GAC | 82.09 | 346 | eP | 01 | 38.00 | 3.0X | BDI | 3.00 | 257 | P | 36 | 01.00 | 1.1 | | | Sg | 37 | 34.32 | |
| LRM | 82.50 | 12 | eP | 01 | 37.80 | 0.2 | | | | eSn | 36 | 37.20 | | | | P | 36 | 31.83 | -2.1 |
| WB5 | 83.18 | 133 | eP | 01 | 40.20 | -0.8 | SAL | 3.02 | 287 | Pc | 36 | 01.20 | 1.2 | | | e(Pg) | 36 | 55.00 | 21.1X |
| WRA | 83.22 | 133 | Pd | 01 | 39.50 | -1.7 | SOP | 3.15 | 24 | eP | 36 | 02.80 | 0.8 | | | Pn | 36 | 34.94 | 0.1 |
| | 0.5s | 0.90nm | | | | 4.1mb | DUI | 3.16 | 183 | P | 36 | 01.30 | -0.9 | | | Sg | 37 | 37.44 | |
| WB2 | 83.23 | 133 | eP | 01 | 40.20 | -1.0 | | | | Pd | 36 | 02.80 | 0.8 | | | P | 36 | 34.91 | -1.9 |
| TIC | 84.38 | 274 | P | 01 | 48.00 | 0.8 | PII | 3.16 | 251 | Pd | 36 | 02.80 | 0.8 | | | Pn | 36 | 37.00 | -0.4 |
| | | | | | | | | | | eSn | 36 | 39.40 | | | | | | | |
| KIC | 84.42 | 273 | P | 01 | 48.20 | 0.7 | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | |
|-----|------------------------------------|-----|-------|----|-------|-------|------|-------|-------|----------|-------|---------|-----------------------------|-----------------------------------|----------------------------------|-------|-------|-------|-------|-------|
| BNI | 5.67 | 275 | P | 36 | 36.40 | -1.4 | | | e | 05 | 40.00 | | SNY | 40.48 | 356 | iPd | 09 | 40.60 | 0.0 | |
| SKO | 5.71 | 118 | ePn | 36 | 50.00 | 11.8X | | | e | 05 | 53.00 | | BWA | 40.67 | 153 | iPc | 09 | 44.70 | 2.3 | |
| OHR | 5.84 | 127 | ePn | 36 | 38.80 | -1.2 | | | e | 08 | 30.00 | | LZH | 40.90 | 330 | eP | 09 | 46.50 | 2.1 | |
| FRF | 5.89 | 260 | Pn | 36 | 40.20 | -0.5 | KHKI | 15.16 | 230 | eP | 05 | 46.40 | 4.9X | | | | | | | |
| | | | Sn | 37 | 45.00 | | | | e | 09 | 47.00 | | CAN | 41.68 | 153 | iPc | 09 | 51.90 | 1.2 | |
| LMR | 6.05 | 259 | Pn | 36 | 42.20 | -0.8 | BAG | 16.43 | 336 | eP | 05 | 57.00 | -0.5 | SHL | 41.84 | 308 | iP | 09 | 52.50 | 0.2 |
| | | | Sn | 37 | 48.80 | | | | eS | 09 | 03.00 | | | | | iS | 15 | 25.50 | | |
| BRG | 6.08 | 356 | ePn | 36 | 42.00 | -1.3 | KNA | 17.01 | 175 | eP | 06 | 03.60 | -0.9 | CNB | 41.84 | 153 | iPc | 09 | 53.50 | 1.4 |
| | | | e | 37 | 10.00 | | | | 0.4s | 42.00nm | | 5.1mb | HHC | 41.88 | 342 | Pd | 09 | 53.00 | 0.7 | |
| | | | iSn | 37 | 50.00 | | TRT | 17.21 | 238 | iPc | 06 | 08.60 | 1.7 | BTQ | 42.15 | 340 | eP | 09 | 54.00 | -0.6 |
| | | | iSg | 38 | 28.00 | | | | 1.0s | 102.80nm | | 5.1mb | TOD | 42.17 | 158 | eP | 09 | 56.00 | 1.3 | |
| | | | i | 38 | 34.00 | | WB5 | 22.15 | 162 | iPc | 06 | 59.10 | -0.2 | CN2 | 42.34 | 358 | eP | 09 | 55.00 | -0.9 |
| LRG | 6.12 | 260 | Pn | 36 | 43.40 | -0.5 | | | eS | 10 | 55.20 | | MDJ | 43.17 | 2 | eP | 10 | 02.70 | 0.1 | |
| | | | Sn | 37 | 50.00 | | | | iScP | 14 | 19.30 | | LSA | 44.52 | 313 | Pd | 10 | 15.80 | 1.5 | |
| KSP | 6.13 | 10 | ePn | 36 | 43.00 | -1.1 | WRA | 22.20 | 162 | Pc | 06 | 59.60 | -0.2 | GTA | 45.49 | 330 | iPd | 10 | 22.20 | 0.8 |
| | | | iPg | 36 | 59.40 | | | | 0.4s | 52.40nm | | 5.3mb | | | | PcP | 11 | 59.30 | | |
| | | | eS | 37 | 44.50 | | WB2 | 22.21 | 162 | iPc | 06 | 59.10 | -0.8 | GUN | 47.67 | 308 | Pd | 10 | 39.40 | 0.3 |
| MOX | 6.18 | 342 | ePn | 36 | 44.00 | -0.8 | | | eS | 10 | 55.20 | | PKI | 47.90 | 307 | Pd | 10 | 40.50 | -0.3 | |
| | | | eSn | 37 | 53.00 | | | | iScP | 14 | 19.30 | | KKN | 48.10 | 307 | Pd | 10 | 42.30 | 0.1 | |
| | | | eSg | 38 | 30.00 | | MBL | 23.52 | 198 | iPc | 07 | 12.60 | 0.1 | DMN | 48.16 | 307 | Pd | 10 | 42.90 | 0.2 |
| BSF | 6.22 | 302 | Pn | 36 | 45.60 | 0.1 | | | 0.4s | 13.00nm | | 4.7mb | GKN | 48.70 | 307 | Pd | 10 | 46.80 | 0.0 | |
| | | | Sn | 37 | 54.00 | | KGM | 24.05 | 272 | eP | 07 | 18.60 | 0.9 | KOD | 50.37 | 282 | eP | 11 | 00.00 | 0.1 |
| CDF | 6.22 | 308 | Pn | 36 | 45.20 | -0.3 | QIZ | 24.60 | 317 | eP | 07 | 23.00 | 0.1 | HYB | 50.56 | 292 | iPd | 11 | 00.70 | -0.2 |
| KRA | 6.35 | 33 | eP | 37 | 04.80 | 17.6X | | | eS | 11 | 34.00 | | | 1.0s | 230.00nm | | | | 6.0mb | |
| | | | e | 37 | 21.80 | | QIS | 24.82 | 152 | iPc | 07 | 25.40 | 0.4 | GBA | 50.87 | 286 | Pc | 11 | 02.90 | -0.4 |
| LSK | 6.41 | 135 | ePn | 36 | 48.50 | 0.3 | | | 0.2s | 81.00nm | | 5.9mb | | 0.8s | 63.70nm | | | | 5.6mb | |
| HAU | 6.56 | 302 | Pn | 36 | 50.30 | 0.0 | | | i | 14 | 27.20 | | NDI | 54.99 | 305 | iPc | 11 | 31.20 | -2.4 | |
| | | | Sn | 38 | 02.80 | | QZK | 24.97 | 341 | Pc | 07 | 27.00 | 0.7 | WMQ | 55.06 | 326 | iPd | 11 | 34.00 | 0.0 |
| CLL | 6.59 | 351 | e(Pn) | 36 | 50.00 | -0.6 | ASPA | 25.63 | 166 | iPc | 07 | 32.10 | -0.4 | QUE | 63.98 | 303 | iPd | 12 | 35.10 | -0.4 |
| | | | eSn | 38 | 06.00 | | | | eS | 11 | 51.50 | | MHI | 71.48 | 308 | iPd | 13 | 22.50 | 0.4 | |
| | | | eSg | 38 | 43.00 | | | | e | 12 | 03.10 | | | 0.9s | 134.45nm | | | | 5.8mb | |
| VAY | 6.77 | 118 | ePn | 36 | 50.00 | -3.2X | | | eScS | 18 | 15.10 | | AVY | 80.62 | 251 | eP | 14 | 14.08 | 0.2 | |
| TNS | 6.84 | 324 | eP | 36 | 55.30 | 1.1 | NANU | 26.39 | 205 | iPc | 07 | 39.30 | -0.1 | VZW | 86.96 | 29 | iP | 15 | 02.07 | 17.2X |
| | | | eS | 38 | 09.60 | | | | 0.4s | 12.00nm | | 4.8mb | VLZ | 87.07 | 29 | eP | 15 | 02.29 | 17.0X | |
| WLF | 7.54 | 313 | P | 37 | 05.20 | 1.3 | IPM | 26.50 | 278 | ePd | 07 | 40.10 | -0.4 | INK | 92.16 | 22 | eP | 15 | 09.00 | 0.0 |
| LBF | 7.75 | 290 | Pn | 37 | 06.00 | -1.0 | | | 0.9s | 48.60nm | | 5.1mb | SOD | 92.93 | 338 | iP | 15 | 11.20 | -1.4 | |
| | | | Sn | 38 | 31.00 | | SNG | 27.29 | 283 | eP | 07 | 45.40 | -2.3 | KJF | 93.03 | 334 | eP | 15 | 12.00 | -1.1 |
| SMF | 7.78 | 287 | Pn | 37 | 06.30 | -1.0 | WARB | 27.34 | 181 | iPd | 07 | 41.00 | -7.0X | SUF | 93.98 | 333 | iP | 15 | 16.20 | -1.3 |
| | | | Sn | 38 | 32.00 | | CTA | 28.20 | 140 | iPd | 07 | 56.40 | 0.6 | MCB | 94.16 | 13 | eP | 15 | 18.00 | -0.1 |
| LOR | 7.90 | 292 | Pn | 37 | 07.60 | -1.4 | | | 1.1s | 26.58nm | | 4.8mb | YKA | 101.42 | 25 | Pdiff | 15 | 53.50 | 2.4 | |
| | | | Sn | 38 | 35.00 | | PSI | 28.46 | 273 | ePd | 07 | 57.30 | -0.9 | KIC | 131.59 | 280 | PKP | 21 | 14.00 | 0.5 |
| SSF | 8.09 | 290 | Pn | 37 | 10.60 | -1.0 | | | 0.8s | 86.80nm | | 5.5mb | TIC | 131.82 | 280 | PKP | 21 | 14.50 | 0.5 | |
| | | | Sn | 38 | 38.80 | | MEKA | 29.04 | 196 | eP | 08 | 03.00 | -0.3 | LIC | 131.89 | 280 | PKP | 21 | 14.70 | 0.6 |
| AVF | 8.14 | 288 | Pn | 37 | 11.60 | -0.7 | | | 0.4s | 11.00nm | | 4.9mb | | S.D. = 1.0 on 82 of 89 obs. | | | | | | |
| MEM | 8.21 | 318 | P | 37 | 17.20 | 3.9X | SSE | 30.19 | 349 | eP | 08 | 13.50 | 0.1 | | FEB 13, 1989 02h 09m 46.77±0.44s | | | | | |
| BGF | 8.45 | 286 | Pn | 37 | 15.60 | -1.0 | | | 0.8s | 16.00nm | | 4.8mb | | 17.516 N ± 4.6km 62.020 W ± 4.9km | | | | | | |
| | | | Sn | 38 | 47.00 | | NST | 30.41 | 299 | iPd | 08 | 07.50 | -8.0X | DEPTH = 41.4 ± 5.5 km | | | | | | |
| MAF | 8.60 | 284 | Pn | 37 | 17.60 | -1.2 | WHN | 31.59 | 338 | P | 08 | 26.50 | 0.9 | LEEWARD ISLANDS (92) | | | | | | |
| | | | Sn | 38 | 51.00 | | | | 1.0s | 0.11nm | | 2.6mb X | MD 4.1 (TRN). Felt (III) on | | | | | | | |
| DOU | 8.62 | 311 | iP | 37 | 19.90 | 1.0 | GYA | 31.96 | 323 | P | 08 | 29.20 | 0.1 | Antigua. Also felt on St. | | | | | | |
| | | | S | 38 | 50.10 | | FORR | 31.99 | 179 | iPc | 08 | 27.80 | -1.3 | Bortholemy. | | | | | | |
| TCF | 8.85 | 284 | Pn | 37 | 21.20 | -1.1 | | | 0.3s | 31.00nm | | 5.6mb | CPB | 0.22 | 56 | eP | 09 | 54.67 | 0.3 | |
| | | | Sn | 38 | 50.00 | | BDT | 32.07 | 301 | eP | 08 | 29.90 | -0.1 | | | eS | 10 | 00.13 | | |
| CAF | 8.94 | 275 | Pn | 37 | 21.30 | -2.2 | | | 0.7s | 38.20nm | | 5.3mb | ANG | 0.40 | 153 | eP | 09 | 55.79 | -0.5 | |
| SNF | 9.02 | 313 | P | 37 | 24.40 | 0.0 | MRWA | 32.25 | 199 | eP | 08 | 31.00 | -0.4 | SKI | 0.71 | 255 | iP | 10 | 00.28 | -0.2 |
| | S.D. = 1.2 on 104 of 115 obs. | | | | | | | | 0.3s | 8.00nm | | 5.0mb | | | eS | 10 | 12.94 | | | |
| | * FEB 13, 1989 01h 41m 57.27±0.89s | | | | | | COOL | 32.56 | 190 | eP | 08 | 33.00 | -1.2 | SKDB | 0.76 | 261 | iP | 10 | 01.26 | 0.1 |
| | 38.285 N ±10.5km 20.764 E ± 9.8km | | | | | | | | 0.5s | 11.00nm | | 4.9mb | BSK | 0.80 | 258 | iP | 10 | 01.83 | 0.1 | |
| | DEPTH = 10.0km (geophysicist) | | | | | | CHG | 32.85 | 304 | iPd | 08 | 36.70 | -0.1 | MGH | 0.81 | 193 | iP | 10 | 01.31 | -0.6 |
| | GREECE (364) | | | | | | | | 1.0s | 37.50nm | | 5.1mb | SEG | 1.21 | 156 | iPc | 10 | 07.48 | 0.0 | |
| | MD 3.0 (ATH). | | | | | | BAL | 33.32 | 197 | eP | 08 | 40.00 | -0.8 | | | S | 10 | 23.80 | | |
| | | | | | | | | | 0.3s | 7.00nm | | 4.9mb | SFG | 1.48 | 148 | iPc | 10 | 11.33 | 0.0 | |
| VLS | 0.17 | 232 | ePb | 42 | 01.20 | 0.0 | KMI | 33.55 | 317 | Pd- | 08 | 44.00 | 0.9 | DEG | 1.51 | 142 | iPc | 10 | 11.70 | -0.1 |
| KZN | 2.16 | 21 | ePn | 42 | 34.50 | 0.6 | KLB | 33.97 | 195 | eP | 08 | 46.00 | -0.3 | | | S | 10 | 29.80 | | |
| NEO | 2.18 | 61 | ePn | 42 | 35.10 | 1.0 | | | 0.3s | 7.00nm | | 4.9mb | PAG | 1.51 | 168 | iPc | 10 | 11.95 | 0.1 | |
| ATH | 2.35 | 97 | ePn | 42 | 36.40 | -0.1 | RMQ | 34.49 | 145 | eP | 08 | 51.00 | 0.1 | | | S | 10 | 30.50 | | |
| OHR | 2.82 | 1 | ePn | 42 | 43.30 | 0.0 | | | | 10 | 11.00 | | MGG | 1.73 | 157 | iPc | 10 | 14.96 | 0.1 | |
| PLG | 2.95 | 44 | ePn | 42 | 43.50 | -1.5 | MUN | 34.76 | 197 | eP | 08 | 53.00 | 0.0 | BBL | 2.05 | 165 | iPc | 10 | 19.61 | 0.1 |
| TIR | 3.13 | 348 | e(P) | 43 | 34.90 | 47.3X | NWAO | 35.37 | 195 | iPc | 08 | 58.00 | -0.2 | DSVT | 2.36 | 165 | eP | 10 | 28.56 | 4.7X |
| | | | e | 43 | 52.40 | | | | 0.4s | 10.00nm | | 5.0mb | | | eS | 11 | 00.18 | | | |
| | S.D. = 1.1 on 6 of 7 obs. | | | | | | STK | 35.66 | 159 | iPc | 09 | 00.80 | 0.1 | | | eTT | 13 | 23.50 | | |
| | | | | | | | | | 0.8s | 83.00nm | | 5.6mb | | | | | | | | |
| | FEB 13, 1989 02h 02m 12.55±0.83s | | | | | | TIA | 36.00 | 346 | eP | 09 | 02.30 | -1.2 | DTMT | 2.36 | 164 | eP | 10 | 24.38 | 0.4 |
| | 1.312 N ± 3.4km 127.365 E ± 5.6km | | | | | | MAT | 36.46 | 15 | eP | 09 | 05.00 | -2.4 | | | eS | 10 | 58.37 | | |
| | DEPTH = 122.2 ± 8.1 km | | | | | | | | 0.8s | 20.90nm | | 5.0mb | FDF | 2.89 | 163 | eP | 10 | 31.18 | -0.3 | |
| | 5.2mb (26 obs.) | | | | | | RKG | 36.52 | 195 | eP | 09 | 13.00 | 5.2X | | | S | 11 | 04.20 | | |
| | HALMAHERA (267) | | | | | | XAN | 36.85 | 334 | iPd | 09 | 10.70 | 0.0 | BIM | 3.12 | 163 | eP | 10 | 34.47 | -0.3 |
| | | | | | | | CD2 | 36.97 | 325 | eP | 09 | 11.70 | 0.0 | MVM | 3.14 | 160 | eP | 10 | 34.23 | -0.8 |
| MNI | 2.53 | 273 | iPc | 02 | 53.00 | -0.4 | CMS | 37.03 | 153 | eP | 09 | 12.00 | -0.2 | | | S | 11 | 11.10 | | |
| | | | eS | 03 | 23.50 | | BRS | 37.58 | 141 | iPc | 09 | 15.40 | -1.5 | SVB | 4.28 | 170 | eP | 10 | 53.00 | 1.7 |
| AAI | 5.03 | 171 | ePd | 03 | 40.00 | 12.9X | | | e | 09 | 40.00 | | | | eS | 11 | 42.40 | | | |
| | | | eS | 04 | 33.30 | | ADE | 37.62 | 165 | iPc | 09 | 18.10 | 0.9 | | | | | | | |
| DAV | 6.01 | 343 | eP | 03 | 40.00 | -0.4 | | | 0.6s | 77.33nm | | 5.7mb | TCE | 6.78 | 178 | eP | 11 | 27.07 | 0.6 | |
| | | | eS | 04 | 46.00 | | TIY | 38.74 | 341 | iPd | 09 | 27.00 | 0.4 | TRN | 6.85 | 175 | eP | 11 | 27.27 | -0.1 |
| TSM | 9.72 | 287 | ePd | 04 | 33.00 | 2.4 | COO | 39.38 | 146 | eP | 09 | 33.00 | 1.1 | TPP | 7.18 | 176 | eP | 11 | 31.40 | -0.5 |
| MTN | 14.55 | 165 | iPc | 05 | 32.80 | -1.0 | BJI | 39.87 | 347</ | | | | | | | | | | | |

INK 67.03 337 eP 20 37.00 -0.4
S.D. = 0.5 on 23 of 24 obs.

& FEB 13, 1989 02h 14m 31.65s
62.464 N 149.482 W
DEPTH = 57.8km
CENTRAL ALASKA (1)
<AGS-P>.

| | | | | | |
|------|------|-----|----|----------|------|
| GHO | 0.74 | 159 | iP | 14 45.79 | -0.7 |
| | | | eS | 14 57.49 | |
| PWA | 0.84 | 193 | eP | 14 46.92 | -0.7 |
| SML | 0.85 | 140 | iP | 14 46.88 | -1.0 |
| | | | eS | 14 59.45 | |
| PME | 0.87 | 166 | iP | 14 47.27 | -0.7 |
| | | | eS | 15 00.88 | |
| PLRM | 0.89 | 169 | iP | 14 47.37 | -0.9 |
| | | | eS | 15 01.22 | |
| KNK | 1.16 | 155 | iP | 14 51.48 | -0.5 |
| | | | eS | 15 08.79 | |
| PMS | 1.22 | 182 | eP | 14 52.29 | -0.6 |
| | | | eS | 15 09.44 | |
| MCK | 1.30 | 11 | eP | 14 53.22 | -0.6 |
| | | | eS | 15 10.52 | |
| TOA | 1.59 | 102 | eP | 14 57.96 | 0.0 |
| | | | eS | 15 20.19 | |
| PTE | 1.62 | 172 | eP | 14 57.74 | -0.5 |
| | | | eS | 15 20.06 | |
| PWL | 1.70 | 161 | eP | 14 58.52 | -0.9 |
| | | | eS | 15 22.07 | |
| CRP | 1.75 | 228 | eP | 15 00.61 | 0.4 |
| SPU | 1.77 | 225 | eP | 15 00.18 | -0.3 |
| | | | eS | 15 22.81 | |
| PAX | 1.92 | 73 | eP | 15 02.11 | -0.4 |
| | | | eS | 15 25.38 | |
| NKA | 1.92 | 207 | eP | 15 05.03 | 2.6 |
| KLU | 1.94 | 119 | iP | 15 01.96 | -0.9 |
| | | | eS | 15 29.19 | |
| SLKM | 2.00 | 191 | eP | 15 03.70 | 0.1 |
| WRH | 2.11 | 17 | eP | 15 03.54 | -1.6 |
| DDM | 2.11 | 49 | eP | 15 06.78 | 1.5 |
| NEA | 2.13 | 5 | eP | 15 03.80 | -1.6 |
| HDA | 2.26 | 29 | eP | 15 05.88 | -1.3 |
| CCB | 2.32 | 18 | eP | 15 06.34 | -1.7 |
| RDT | 2.36 | 218 | eP | 15 08.84 | 0.1 |
| SEW | 2.37 | 180 | eP | 15 08.75 | 0.0 |
| RDS | 2.45 | 14 | eP | 15 08.37 | -1.5 |
| HIN | 2.52 | 144 | eP | 15 09.48 | -1.5 |
| FBA | 2.56 | 16 | iP | 15 10.06 | -1.4 |
| NNL | 2.58 | 201 | eP | 15 14.71 | 2.9 |
| RED | 2.59 | 219 | eP | 15 12.08 | 0.1 |
| CVA | 2.63 | 135 | eP | 15 11.30 | -1.1 |
| GLM | 2.70 | 19 | iP | 15 11.87 | -1.6 |
| SGAM | 2.84 | 132 | iP | 15 13.96 | -1.6 |
| GLB | 2.87 | 108 | iP | 15 14.57 | -1.4 |
| ILIM | 2.92 | 217 | eP | 15 16.01 | -0.7 |
| TTA | 3.05 | 282 | eP | 15 16.56 | -1.9 |
| CNPM | 3.07 | 197 | eP | 15 18.32 | -0.5 |
| RAGM | 3.11 | 130 | eP | 15 18.10 | -1.3 |
| CTGM | 4.16 | 108 | eP | 15 32.18 | -2.0 |

38 obs. associated

* FEB 13, 1989 02h 15m 33.20 ± 0.69s
38.336 N ± 10.2km 76.648 E ± 10.7km
DEPTH = 33.0km (normal)
4.4mb (3 obs.)

SOUTHERN XINJIANG, CHINA (321)

| | | | | | |
|-----|-------|-----|--------|----------|-------|
| NDI | 9.64 | 177 | eP | 17 56.00 | 3.3X |
| | | | eS | 19 39.00 | |
| QUE | 11.41 | 227 | eP | 18 18.30 | 1.2 |
| GKN | 12.28 | 145 | P | 18 28.70 | -0.1 |
| KKN | 12.76 | 143 | P | 18 33.80 | -1.4 |
| GUN | 12.95 | 141 | P | 18 37.60 | -0.3 |
| PKI | 13.00 | 143 | P | 18 37.90 | -0.7 |
| MHI | 13.81 | 267 | eP | 18 47.00 | -1.9 |
| | | | eS | 21 24.00 | |
| HYB | 20.91 | 175 | eP | 20 18.00 | 2.7 |
| GBA | 24.64 | 178 | P | 20 56.00 | 4.0X |
| SUF | 38.86 | 325 | iP | 22 57.30 | 0.7 |
| | 0.6s | | 1.70nm | | 4.0mb |
| NB2 | 45.68 | 322 | P | 23 51.80 | -0.5 |
| | 0.6s | | 3.00nm | | 4.4mb |
| BNG | 62.50 | 253 | iPd | 25 55.30 | -0.7 |
| | 0.6s | | 6.00nm | | 4.9mb |
| MBC | 65.24 | 4 | eP | 26 14.00 | 0.9 |
| INK | 71.30 | 11 | eP | 26 51.00 | 0.2 |

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

* FEB 13, 1989 02h 55m 49.57 ± 0.74s
54.296 N ± 17.0km 166.287 W ± 8.8km
DEPTH = 33.0km (normal)
4.9mb (4 obs.)

FOX ISLANDS, ALEUTIAN ISLANDS (9)

| | | | | | |
|-----|-------|-----|---------|----------|-------|
| SDN | 3.51 | 70 | eP | 56 43.70 | 0.6 |
| KDC | 8.46 | 60 | eP | 57 51.90 | -0.8 |
| SVW | 8.89 | 36 | eP | 58 06.80 | 8.1X |
| TTA | 10.17 | 28 | e(P) | 58 21.80 | 5.5X |
| PMS | 11.30 | 45 | eP | 58 31.60 | -0.1 |
| TOA | 13.13 | 45 | eP | 58 56.10 | -0.1 |
| IMA | 13.33 | 23 | eP | 59 06.40 | 7.6X |
| INK | 20.71 | 35 | eP | 00 28.00 | -1.1 |
| YKA | 27.59 | 52 | P | 01 35.70 | 0.5 |
| MBC | 28.06 | 22 | eP | 01 41.00 | 1.7 |
| FRB | 46.33 | 38 | eP | 04 13.00 | -0.4 |
| GUN | 77.39 | 300 | P | 07 43.10 | 0.0 |
| | 0.8s | | 17.00nm | | 5.1mb |
| KKN | 77.79 | 301 | P | 07 45.20 | 0.0 |
| | 0.6s | | 5.00nm | | 4.7mb |
| PKI | 77.90 | 300 | P | 07 45.60 | -0.3 |
| | 0.8s | | 9.00nm | | 4.9mb |
| GKN | 77.94 | 301 | P | 07 46.00 | 0.1 |
| | 0.8s | | 14.00nm | | 5.0mb |
| DMN | 78.02 | 301 | P | 07 46.30 | -0.2 |
| BRS | 88.68 | 216 | eP | 08 40.50 | 0.1 |

S.D. = 0.7 on 14 of 17 obs.

FEB 13, 1989 04h 09m 33.31 ± 0.30s
8.766 S ± 5.4km 106.075 E ± 6.8km
DEPTH = 33.0km (normal)
4.8mb (15 obs.) 3.7Msz (1 obs.)

SOUTH OF JAVA (282)

| | | | | | |
|------|-------|-----|----------|----------|--------|
| TRT | 6.58 | 81 | iPd | 11 11.30 | 1.0 |
| | 0.7s | | 116.50nm | | 5.8mb |
| PSI | 13.43 | 328 | ePc | 12 39.50 | -4.6X |
| IPM | 14.18 | 339 | ePd | 12 45.90 | -8.1X |
| NANU | 16.45 | 148 | eP | 13 18.00 | -5.3X |
| | 0.4s | | 8.00nm | | 4.2mb |
| | | | eS | 16 08.00 | |
| TSM | 17.59 | 43 | ePc | 13 40.00 | 2.3 |
| MBL | 18.10 | 134 | eP | 13 39.00 | -5.0X |
| | 0.4s | | 6.00nm | | 4.1mb |
| | | | eS | 16 45.00 | |
| MEKA | 21.32 | 148 | eP | 14 19.00 | -0.7 |
| | 0.7s | | 24.00nm | | 4.7mb |
| KNA | 23.22 | 110 | eP | 14 38.40 | -0.2 |
| BAL | 23.89 | 157 | eP | 14 45.00 | 0.0 |
| MTN | 24.94 | 102 | iPc | 14 55.90 | 0.7 |
| | | | e | 15 11.00 | |
| MUN | 24.94 | 159 | iPc | 14 55.00 | -0.1 |
| NST | 24.98 | 346 | eP | 14 51.00 | -4.6X |
| KLB | 25.18 | 156 | iPc | 14 56.80 | -0.6 |
| | 0.5s | | 14.00nm | | 4.8mb |
| WARB | 26.10 | 134 | eP | 14 57.50 | -8.6X |
| COOL | 26.11 | 149 | eP | 15 04.00 | -2.1 |
| NWAO | 26.17 | 158 | iPc | 15 05.70 | -0.9 |
| | 1.0s | | 30.00nm | | 4.9mb |
| RKG | 27.12 | 160 | eP | 15 19.00 | 3.7X |
| CHG | 28.29 | 346 | iPd | 15 24.90 | -1.2 |
| | 1.0s | | 37.25nm | | 5.0mb |
| WRA | 29.50 | 115 | Pd | 15 37.20 | 0.2 |
| | 0.7s | | 7.00nm | | 4.5mb |
| WB5 | 29.50 | 115 | eP | 15 36.30 | -0.7 |
| WB2 | 29.51 | 115 | eP | 15 36.30 | -0.8 |
| ASPA | 30.46 | 122 | iPd | 15 44.20 | -1.3 |
| | 1.0s | | 9.00nm | | 4.5mb |
| Z | 21s | | 0.17um | | 3.7Msz |
| | | | LR | 26 55.30 | |
| OIS | 34.41 | 114 | eP | 16 19.80 | -0.2 |
| GYA | 35.02 | 1 | P | 16 24.60 | -0.5 |
| GBA | 36.09 | 308 | Pd | 16 34.50 | 0.3 |
| | 1.0s | | 5.90nm | | 4.5mb |
| SHL | 36.82 | 338 | iP | 16 39.90 | -0.5 |
| | | | eS | 22 22.00 | |
| HYB | 37.64 | 314 | eP | 16 47.50 | 0.2 |
| CD2 | 39.51 | 357 | eP | 17 01.80 | -1.0 |
| WHN | 39.88 | 11 | eP | 17 05.50 | -0.3 |
| | | | pP | 17 16.30 | 38kmX |
| STK | 40.18 | 130 | iPc | 17 08.60 | 0.3 |
| CTA | 40.40 | 111 | iPd | 17 11.30 | 1.0 |
| | 1.0s | | 41.50nm | | 5.1mb |
| LSA | 40.85 | 340 | P | 17 15.30 | 0.9 |

| | | | | | |
|-----|-------|-----|---------|----------|-------|
| PKI | 41.30 | 332 | Pc | 17 18.20 | 0.3 |
| | 1.0s | | 60.00nm | | 5.3mb |
| GUN | 41.37 | 332 | Pc | 17 19.20 | 0.7 |
| DMN | 41.47 | 331 | Pc | 17 19.80 | 0.6 |
| KKN | 41.54 | 332 | Pc | 17 20.30 | 0.6 |
| GKN | 42.02 | 331 | Pc | 17 24.20 | 0.6 |
| SSE | 42.20 | 19 | Pc | 17 25.50 | 0.7 |
| | 1.0s | | 29.00nm | | 5.0mb |
| | | | i | 17 35.00 | |
| XAN | 42.65 | 3 | eP | 17 27.10 | -1.5 |
| LZH | 44.66 | 357 | eP | 17 45.00 | 0.0 |
| | 1.5s | | 88.00nm | | 5.4mb |
| TIA | 45.93 | 12 | eP | 17 53.70 | -1.1 |
| BWA | 46.44 | 130 | eP | 18 01.50 | 2.5 |
| NDI | 46.50 | 324 | eP | 17 59.00 | -0.4 |
| TIY | 46.62 | 7 | iPd | 18 00.40 | 0.1 |

| | | | | | |
|------|--------|-----|---------|----------|---------|
| Z | 16s | | 0.50um | | 4.6MszX |
| CAN | 47.23 | 131 | eP | 18 05.80 | 0.5 |
| GTA | 48.28 | 354 | iPc | 18 13.80 | 0.3 |
| BTO | 49.25 | 4 | eP | 18 21.00 | 0.1 |
| BJI | 49.45 | 10 | eP | 18 21.50 | -0.8 |
| HHC | 49.63 | 5 | P | 18 23.60 | -0.2 |
| SNY | 52.85 | 16 | eP | 18 46.50 | -1.5 |
| WMO | 54.93 | 344 | iPc | 19 03.20 | -0.2 |
| CN2 | 55.20 | 17 | eP | 19 03.00 | -2.2 |
| MDJ | 57.22 | 20 | eP | 19 18.00 | -1.7 |
| | | | epP | 19 28.00 | 33kmX |
| AVY | 57.32 | 253 | eP | 19 21.20 | 0.1 |
| MHI | 62.64 | 319 | eP | 19 56.00 | -1.1 |
| CER | 82.57 | 237 | eP | 21 43.50 | -11.3X |
| BNG | 88.23 | 275 | iPc | 22 24.00 | 0.7 |
| | 0.7s | | 6.00nm | | 5.0mb |
| MLR | 89.34 | 316 | eP | 22 30.00 | 2.0 |
| YKA | 118.83 | 20 | PKP | 28 20.60 | 1.1 |
| EDM | 125.46 | 28 | ePKP | 28 32.00 | -0.6 |
| MEO | 145.63 | 37 | ePKP | 29 10.80 | 0.3 |
| | 1.0s | | 14.30nm | | |
| SIO | 146.26 | 34 | e(PKP) | 29 13.00 | 1.5 |
| LNO | 146.42 | 33 | ePKP | 29 14.30 | 2.7 |
| VVO | 146.88 | 34 | e(PKP) | 29 15.70 | 3.3X |
| CNCB | 153.92 | 193 | ePKP | 29 33.00 | 8.8X |
| LPB | 154.21 | 193 | ePKP | 29 36.00 | 11.6X |
| ZOBO | 154.47 | 193 | PKP | 29 31.00 | 6.0X |

S.D. = 1.1 on 55 of 67 obs.

& FEB 13, 1989 06h 00m 28.60s
37.843 N 122.605 W

CENTRAL CALIFORNIA (39)

<BRK>. ML 3.0 (BRK).
Mo=1.2*10**14 NM (BRK). Felt
(111) at San Rafael. Also felt
at San Francisco and in southern
Marin County.

| | | | | | |
|------|------|-----|------|----------|------|
| BRK | 0.27 | 84 | iPc | 00 34.10 | -0.1 |
| | | | iS | 00 38.10 | |
| ZSP | 0.29 | 70 | iPc | 00 34.90 | 0.3 |
| BKS | 0.29 | 83 | iPc | 00 34.50 | -0.1 |
| | | | ic | 00 35.60 | |
| | | | iS | 00 39.10 | |
| PCC | 0.39 | 153 | iPc | 00 36.10 | -0.3 |
| | | | iS | 00 41.70 | |
| NWRM | 0.65 | 340 | eP | 00 41.40 | -0.3 |
| MHC | 0.91 | 123 | iPc | 00 45.70 | -0.9 |
| | | | eS | 00 58.45 | |
| GCC | 0.95 | 149 | eP | 00 45.70 | -1.3 |
| ARN | 0.98 | 120 | eP | 00 46.50 | -1.2 |
| SAO | 1.42 | 139 | eP | 00 51.80 | -3.2 |
| CMB | 1.77 | 83 | ePd | 00 58.60 | -1.4 |
| | | | i | 00 59.40 | |
| | | | iS | 01 21.50 | |
| PRS | 1.80 | 146 | ePc | 00 57.90 | -2.5 |
| LLA | 1.80 | 132 | ePc | 00 58.90 | -1.6 |
| BCH | 3.34 | 142 | eP | 01 21.00 | -1.5 |
| KVN | 3.74 | 70 | eP | 01 26.00 | -2.3 |
| TNP | 4.26 | 85 | e(P) | 01 34.00 | -1.7 |

15 obs. associated

13d 06h

| County. | | | | |
|---------|------|-----|------|---------------|
| BKS | 0.16 | 328 | iPc | 41 44.50 0.1 |
| | | | iS | 41 47.10 |
| BRK | 0.17 | 322 | iPc | 41 44.50 0.0 |
| | | | iS | 41 47.80 |
| ZSP | 0.23 | 334 | iPd | 41 46.20 0.5 |
| PCC | 0.31 | 220 | iPd | 41 47.60 0.2 |
| | | | iS | 41 53.50 |
| MHC | 0.56 | 136 | ePd | 41 52.20 -0.1 |
| | | | e(S) | 42 05.95 |
| ARN | 0.62 | 129 | eP | 41 53.00 -0.4 |
| GCC | 0.72 | 171 | iPd | 41 55.00 -0.5 |
| | | | eS | 42 05.10 |
| NWRM | 0.93 | 320 | eP | 41 58.10 -1.2 |
| SAO | 1.12 | 151 | iPd | 42 01.20 -1.3 |
| | | | eS | 42 19.40 |
| CMB | 1.41 | 78 | eP | 42 06.30 -1.2 |
| | | | e | 42 07.20 |
| | | | eS | 42 25.20 |
| LLA | 1.47 | 140 | ePc | 42 06.80 -1.5 |
| PRS | 1.53 | 156 | iPc | 42 07.80 -1.4 |
| ORV | 1.88 | 15 | e(P) | 42 12.30 -1.8 |
| PRI | 1.98 | 143 | ePc | 42 14.90 -0.9 |
| FRI | 2.07 | 111 | e(P) | 42 15.90 -1.0 |
| PHAM | 2.36 | 143 | eP | 42 20.00 -1.1 |
| BCH | 3.04 | 147 | eP | 42 28.00 -2.8 |
| KVN | 3.42 | 66 | eP | 42 36.00 -0.4 |

18 obs. associated

? FEB 13, 1989 07h 03m 54.12± 1.78s
 6.264 S ±24.7km 155.243 E ±25.3km
 DEPTH = 88.6 ± 19.1 km
 4.3mb (1 obs.)
 SOLOMON ISLANDS (193)
 Felt (III) at Arawa,
 Bougainville.

| | | | | |
|------|------------|------------------|-----|---------------|
| PAA | 0.25 | 98 | iPd | 04 07.00 -0.4 |
| | | | eS | 04 11.00 |
| RAB | 3.69 | 304 | eP | 04 51.00 1.0 |
| | 0.6s | 277.33nm | | |
| HNR | 5.62 | 124 | eP | 05 22.00 5.1X |
| PMG | 8.60 | 248 | eP | 05 56.50 -1.4 |
| CTA | 16.28 | 212 | iPc | 07 40.50 1.7 |
| QIS | 20.78 | 225 | iPc | 08 32.00 1.8 |
| RMO | 21.04 | 196 | eP | 08 33.00 0.2 |
| WB5 | 24.38 | 234 | iPc | 09 05.80 0.3 |
| WB2 | 24.43 | 234 | iPc | 09 05.80 -0.1 |
| WRA | 24.44 | 234 | Pc | 09 05.30 -0.7 |
| | 0.6s | 7.60nm | | 4.3mb |
| ASPA | 26.84 | 228 | iPc | 09 26.00 -2.3 |
| | S.D. = 1.6 | on 10 of 11 obs. | | |

& FEB 13, 1989 08h 01m 41.90s
 37.838 N 122.603 W
 DEPTH = 8.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 3.6 (BRK).
 Mo=3.1*10**14 Nm (BRK). Felt at
 El Cerrito, Inverness, Muir
 Woods, San Francisco and San
 Rafael.

| | | | | |
|------|------|-----|------|---------------|
| BKS | 0.29 | 82 | iPc | 01 48.00 0.1 |
| | | | id | 01 48.85 |
| | | | iS | 01 52.20 |
| ZSP | 0.29 | 69 | iP | 01 48.30 0.4 |
| NWRM | 0.66 | 340 | eP | 01 54.70 -0.4 |
| MHC | 0.91 | 123 | iPd | 01 58.85 -0.7 |
| | | | e | 01 59.15 |
| | | | iS | 02 12.35 |
| ARN | 0.98 | 120 | eP | 01 59.80 -0.9 |
| SAO | 1.41 | 139 | iP | 02 05.30 -2.6 |
| | | | e(S) | 02 25.15 |
| CMB | 1.76 | 83 | iPd | 02 12.10 -0.9 |
| | | | eS | 02 35.20 |
| ORV | 1.92 | 26 | eP | 02 13.00 -2.2 |
| PHAM | 2.67 | 138 | eP | 02 24.00 -2.0 |
| BCH | 3.34 | 142 | eP | 02 33.00 -2.5 |
| KVN | 3.74 | 70 | eP | 02 39.30 -2.0 |

11 obs. associated

FEB 13, 1989 08h 06m 55.87± 0.23s
 7.957 N ± 5.4km 38.092 W ± 4.0km
 DEPTH = 10.0km (geophysicist)
 5.4mb (42 obs.) 5.3MsZ (6 obs.)

CENTRAL MID-ATLANTIC RIDGE (406)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 14S, 28C
 Centroid Location:
 Origin Time 08:07: 3.1 0.5
 Lat 8.32N 0.05 Lon 37.60W 0.06
 Dep 15.0 FIX Half-duration 2.0
 Moment Tensor: Scale 10**17 Nm
 Mrr=-1.51 0.05 Mtt=-0.38 0.07
 Mff= 1.89 0.08 Mrt= 0.06 0.18
 Mrf= 0.41 0.30 Mtf= 0.06 0.04
 Principal Axes:
 T Val= 1.94 Plg= 7 Azm=272
 N -0.38 2 2
 P -1.56 83 112
 Best Double Couple: Mo=1.8*10**17
 NP1: Strike=359 Dip=38 Slip=-94
 NP2: 184 52 -87

| | | | | |
|------|-------|----------|----------|----------------|
| ATB | 17.99 | 232 | e(P) | 11 06.00 -1.8 |
| CAR | 28.57 | 277 | eP | 12 50.00 -4.5X |
| ITA | 30.83 | 192 | eP | 13 15.60 0.8 |
| | | | e | 13 22.20 |
| BMA | 31.03 | 191 | eP | 13 14.30 -1.9 |
| | | | e | 13 18.90 |
| | | | e | 13 23.40 |
| | | | e | 13 28.50 |
| VAO | 31.97 | 196 | eP | 13 24.00 -0.5 |
| LIC | 32.85 | 91 | P | 13 31.50 -0.7 |
| FUO | 35.48 | 268 | eP | 13 50.00 -5.3X |
| BOG | 35.90 | 267 | eP | 14 02.00 3.1X |
| | | | eS | 19 53.00 |
| TIO | 36.75 | 47 | iP | 14 07.50 1.8 |
| CCH | 37.45 | 228 | eP | 14 13.00 1.2 |
| KUK | 37.47 | 90 | eP | 14 11.50 -0.2 |
| KOGH | 37.60 | 90 | eP | 14 13.50 0.6 |
| SHGH | 37.82 | 91 | eP | 14 14.00 -0.6 |
| AVE | 37.95 | 44 | iP | 14 17.00 1.5 |
| ZOBO | 38.25 | 231 | P | 14 19.90 1.1 |
| | 1.2s | 43.92nm | | 5.1mb |
| | | S | 20 20.00 | |
| | | LR | 26 20.00 | |
| LPB | 38.39 | 231 | P | 14 22.00 2.2 |
| | 1.3s | 192.31nm | | 5.7mb |
| Z | 22s | 2.22um | | 4.9MsZ |
| | | S | 20 22.00 | |
| | | LR | 26 54.00 | |
| CNCB | 38.46 | 230 | Pc | 14 22.40 1.8 |
| PSO | 39.66 | 262 | eP | 14 32.00 1.5 |
| ARE | 41.00 | 234 | eP | 14 41.00 -0.3 |
| EHOR | 42.01 | 40 | e(P) | 14 49.00 -0.1 |
| AFC | 42.79 | 42 | e(P) | 14 58.00 2.3 |
| TOL | 44.00 | 38 | eP | 15 07.50 2.3 |
| EVIA | 44.25 | 41 | e(P) | 15 08.00 0.6 |
| GUD | 44.39 | 37 | e(P) | 15 09.00 0.4 |
| ECHE | 45.77 | 41 | e(P) | 15 21.30 1.8 |
| SGS | 46.52 | 309 | P | 15 27.40 2.0 |
| CVL | 47.11 | 316 | P | 15 30.00 0.0 |
| LHS | 47.26 | 310 | P | 15 32.00 0.7 |
| BLA | 48.13 | 314 | P | 15 38.80 0.6 |
| | 1.1s | 101.73nm | | 5.8mb |
| PRM | 48.29 | 309 | P | 15 39.90 0.5 |
| EPF | 48.51 | 37 | eP | 15 41.90 0.9 |
| GAC | 49.49 | 326 | eP | 15 41.00 -7.4X |
| LFF | 49.85 | 36 | eP | 15 51.30 0.1 |
| TKL | 49.96 | 310 | P | 15 51.80 -0.4 |
| LPO | 49.96 | 36 | eP | 15 52.10 0.0 |
| GBTN | 50.29 | 310 | P | 15 54.00 -0.7 |
| MFF | 50.34 | 33 | eP | 15 54.80 -0.2 |
| RJF | 50.51 | 36 | eP | 15 55.70 -0.5 |
| CAF | 50.61 | 36 | eP | 15 57.00 -0.1 |
| | 1.5s | 67.90nm | | 5.4mb |
| LPF | 50.76 | 31 | eP | 15 58.00 -0.1 |
| | 1.0s | 32.00nm | | 5.2mb |
| LSF | 51.06 | 35 | eP | 16 00.20 -0.2 |
| GRR | 51.08 | 31 | eP | 16 00.30 -0.2 |
| PEL | 51.29 | 215 | iPd | 16 02.50 0.1 |
| RSCP | 51.31 | 310 | P | 16 02.60 0.1 |
| | 1.4s | 28.30nm | | 5.0mb |
| TCF | 51.47 | 35 | eP | 16 03.30 -0.3 |
| | 1.6s | 70.80nm | | 5.3mb |
| SAN | 51.51 | 215 | eP | 16 04.50 0.5 |
| LDF | 51.59 | 31 | eP | 16 03.90 -0.5 |
| MAF | 51.64 | 35 | eP | 16 04.80 0.0 |
| | 1.7s | 88.20nm | | 5.4mb |
| BGF | 51.99 | 35 | eP | 16 07.30 -0.1 |

| | | | | |
|------|-------|----------|----------|----------------|
| SCH | 52.04 | 339 | eP | 16 08.00 0.2 |
| AVF | 52.40 | 35 | eP | 16 10.30 -0.3 |
| | 1.6s | 68.40nm | | 5.3mb |
| SMF | 52.60 | 35 | eP | 16 11.80 -0.3 |
| | 1.6s | 52.20nm | | 5.2mb |
| SSF | 52.64 | 35 | eP | 16 11.80 -0.6 |
| | 1.6s | 74.60nm | | 5.4mb |
| LBF | 52.87 | 35 | eP | 16 13.50 -0.6 |
| | 1.6s | 74.60nm | | 5.4mb |
| LOR | 52.96 | 35 | eP | 16 14.20 -0.6 |
| | 1.5s | 52.20nm | | 5.2mb |
| PWLA | 53.01 | 308 | P | 16 14.70 -0.6 |
| SBF | 53.35 | 40 | eP | 16 17.40 -0.4 |
| | 1.2s | 71.40nm | | 5.5mb |
| PZZ | 53.45 | 39 | P | 16 19.39 0.8 |
| RRL | 53.46 | 39 | P | 16 19.28 0.6 |
| STV | 53.46 | 40 | P | 16 18.77 0.2 |
| DOI | 53.54 | 39 | Pc | 16 21.50 2.4 |
| IMI | 53.67 | 40 | P | 16 20.41 0.4 |
| LPG | 53.72 | 38 | eP | 16 20.90 0.2 |
| | 1.0s | 12.80nm | | 4.9mb |
| RSP | 53.86 | 39 | P | 16 20.92 -0.6 |
| LSO | 53.95 | 38 | P | 16 23.90 1.6 |
| FIN | 54.01 | 40 | P | 16 19.69 -2.8 |
| ORX | 54.54 | 38 | P | 16 23.49 -3.0X |
| ELC | 54.64 | 310 | P | 16 25.40 -1.8 |
| HAU | 54.77 | 35 | eP | 16 27.70 -0.4 |
| | 1.3s | 60.60nm | | 5.5mb |
| BSF | 54.94 | 36 | eP | 16 28.80 -0.6 |
| | 1.5s | 104.40nm | | 5.6mb |
| DOU | 54.96 | 32 | P | 16 32.70 3.3X |
| FAI | 55.12 | 50 | P | 16 33.50 2.8 |
| CDF | 55.52 | 35 | eP | 16 32.60 -0.9 |
| | 1.6s | 67.10nm | | 5.4mb |
| WLF | 55.56 | 33 | P | 16 34.90 1.3 |
| MDI | 55.68 | 39 | P | 16 33.50 -1.1 |
| OLY | 55.83 | 308 | P | 16 35.70 -0.2 |
| ENN | 56.04 | 32 | eP | 16 38.00 0.9 |
| | 1.7s | 60.00nm | | 5.3mb |
| PGD | 56.14 | 42 | P | 16 38.50 0.3 |
| BNG | 56.38 | 90 | iPc | 16 39.20 -1.1 |
| | 0.9s | 41.00nm | | 5.5mb |
| | | i | 16 46.10 | |
| ASS | 56.44 | 43 | P | 16 41.40 1.1 |
| SDI | 56.72 | 45 | P | 16 41.00 -1.3 |
| ARV | 56.80 | 43 | P | 16 43.60 0.8 |
| CTI | 57.01 | 39 | P | 16 44.00 -0.4 |
| DUI | 57.16 | 45 | P | 16 46.50 1.1 |
| WTS | 57.19 | 31 | eP | 16 47.00 1.7 |
| FVI | 57.95 | 39 | P | 16 51.10 0.4 |
| RBL | 58.38 | 40 | P | 16 53.90 0.0 |
| GRF | 58.40 | 35 | eP | 16 54.60 0.7 |
| | 1.3s | 49.00nm | | 5.4mb |
| Z | 20s | 0.60um | | 4.7MsZ |
| | | e | 16 59.30 | |
| VOY | 58.42 | 40 | eP | 16 52.20 -2.0 |
| KBA | 58.51 | 39 | ePd | 16 54.00 -0.9 |
| | 1.2s | 26.00nm | | 5.2mb |
| | | i | 17 01.90 | |
| CEY | 58.65 | 41 | eP | 16 55.60 -0.1 |
| RLO | 58.79 | 308 | eP | 16 54.90 -2.0 |
| LJU | 58.84 | 40 | eP | 16 55.50 -1.5 |
| MOX | 59.08 | 34 | eP | 17 00.00 1.4 |
| | 1.6s | 68.00nm | | 5.5mb |
| VBY | 59.10 | 41 | e(P) | 17 00.00 1.2 |
| VVO | 59.16 | 306 | e(P) | 16 57.60 -1.9 |
| LNO | 59.34 | 307 | eP | 17 00.00 -0.5 |
| TUL | 59.34 | 307 | eP | 16 59.20 -1.5 |
| | 1.2s | 24.10nm | | 5.2mb |
| Z | 22s | 4.61um | | 5.6MsZ |
| KMR | 59.40 | 38 | iP- | 17 01.30 0.4 |
| KHC | 59.52 | 37 | eP | 17 00.80 -1.0 |
| | | e | 17 02.50 | |
| SIO | 59.71 | 307 | e(P) | 17 03.00 -0.2 |
| FRB | 59.81 | 345 | eP | 17 02.00 -1.4 |
| CLL | 60.17 | 34 | eP | 17 05.00 -1.0 |
| | 2.2s | 78.00nm | | 5.4mb |
| PRU | 60.46 | 36 | eP | 17 07.50 -0.6 |
| | | e | 17 12.70 | |
| FKO | 60.47 | 306 | eP | 17 08.30 -0.1 |
| | 0.9s | 17.20nm | | 5.2mb |
| BRG | 60.50 | 35 | eP | 17 07.20 -1.1 |
| | 2.4s | 100.00nm | | 5.5mb |
| | | e | 17 14.70 | |
| ZST | 61.28 | 39 | eP | 17 13.10 -0.6 |
| | | e | 19 36.50 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|-------|----------|-----|----|-------|--------|-------|--------|---------|------|-------|-------|-------|-------|-------|---------|-----|-------|-------|--------------------------------------|------|-----|----|----|-------|--------------------------------------|-----------------------|
| MEO | 61.34 | 305 | eP | 17 | 12.30 | -2.1 | MBC | 80.24 | 346 | eP | 19 | 08.00 | 0.2 | ELL | 21.72 | 273 | ePn | 24 | 00.10 | 0.0 | | | | | | | |
| | 1.5s | 62.30nm | | | | 5.5mb | | 0.9s | 17.00nm | | | | 5.0mb | CFR | 22.44 | 295 | ePd | 24 | 15.50 | 8.5X | | | | | | | |
| OHR | 61.53 | 47 | eP | 17 | 15.50 | -0.1 | WDC | 80.67 | 310 | ePc | 19 | 09.50 | -1.3 | TLB | 22.47 | 294 | ePc | 24 | 08.00 | 0.6 | | | | | | | |
| KSP | 61.83 | 36 | eP | 17 | 15.30 | -2.1 | INK | 84.67 | 338 | eP | 19 | 30.00 | -0.8 | MLR | 24.02 | 296 | iPc | 24 | 22.00 | -0.6 | | | | | | | |
| SRO | 61.90 | 40 | eP | 17 | 17.60 | -0.3 | AVY | 88.63 | 109 | iPc | 19 | 55.80 | 4.5X | GKN | 25.19 | 107 | P | 24 | 39.40 | 5.4X | | | | | | | |
| GDH | 62.05 | 354 | eP | 17 | 17.00 | -1.5 | MHI | 91.41 | 53 | eP | 20 | 05.00 | 1.1 | | 0.4s | 7.00nm | | | | 4.6mb | | | | | | | |
| ACO | 62.15 | 307 | eP | 17 | 19.50 | -0.4 | | | eS | 31 | 10.00 | | DMN | 25.75 | 108 | P | 24 | 39.00 | -0.4 | | | | | | | | |
| | 1.0s | 33.70nm | | | | 5.5mb | CN2 | 126.37 | 15 | ePKP | 26 | 01.00 | 0.1 | KKN | 25.78 | 107 | P | 24 | 40.10 | 0.4 | | | | | | | |
| SKO | 62.22 | 47 | iP | 17 | 18.00 | -2.2 | BJI | 126.65 | 25 | ePKP | 26 | 02.50 | 1.0 | | 0.4s | 10.00nm | | | | 4.8mb | | | | | | | |
| | | i | | | | 17 | 25.60 | TIY | 126.88 | 29 | ePKP | 26 | 03.50 | 1.4 | | | | | | S.D. = 0.8 on 5 of 7 obs. | | | | | | | |
| BUD | 62.24 | 40 | eP | 17 | 19.00 | -1.2 | XAN | 127.83 | 35 | ePKP | 26 | 02.10 | -1.9 | | | | | | | % FEB 13, 1989 10h 24m 34.07 ± 0.66s | | | | | | | |
| BEO | 62.33 | 43 | eP | 17 | 21.00 | 0.2 | BAG | 147.88 | 41 | ePKP | 26 | 42.00 | 1.0 | | | | | | | 60.608 N ± 5.5km 6.271 E ± 9.0km | | | | | | | |
| RSON | 62.55 | 324 | P | 17 | 20.00 | -2.2 | | | | | | | | | | | | | | DEPTH = 10.0km (geophysicist) | | | | | | | |
| | 1.5s | 64.03nm | | | | 5.6mb | | | | | | | | | | | | | | SOUTHERN NORWAY (535) | | | | | | | |
| VAY | 62.87 | 48 | eP | 17 | 23.00 | -1.5 | | | | | | | | | | | | | | MD 2.1 (BER). | | | | | | | |
| PSZ | 62.94 | 40 | eP | 17 | 24.30 | -0.6 | | | | | | | | | | | | | | | | | | | | | |
| BZS | 63.35 | 43 | eP | 17 | 25.00 | -2.5 | | | | | | | | | | | | | | | | | | | | | |
| SPC | 63.58 | 39 | eP | 17 | 29.70 | 0.4 | | | | | | | | | | | | | | | | | | | | | |
| KRA | 63.69 | 38 | eP | 17 | 28.60 | -1.1 | | | | | | | | | | | | | | | | | | | | | |
| | | e | | | | 17 | 35.60 | | | | | | | | | | | | | | | | | | | | |
| | | e | | | | 17 | 41.10 | | | | | | | | | | | | | | | | | | | | |
| NRA0 | 64.22 | 25 | P | 17 | 35.70 | 2.7 | OCP | 3.15 | 280 | eP | 44 | 19.00 | 2.3 | HYA | 0.56 | 356 | iP | 24 | 44.48 | -1.0 | | | | | | | |
| NB2 | 64.25 | 24 | P | 17 | 33.10 | -0.2 | BAG | 4.24 | 303 | eP | 44 | 31.00 | -1.4 | ODD1 | 0.72 | 166 | iP | 24 | 48.35 | 0.1 | | | | | | | |
| | 1.5s | 101.50nm | | | | 5.8mb | | | eS | 45 | 28.00 | | | | | eS | 24 | 57.77 | | | | | | | | | |
| HFS | 64.80 | 26 | eP | 17 | 35.40 | -1.4 | OIZ | 14.68 | 291 | eP | 46 | 54.80 | -0.6 | SUE | 0.87 | 302 | eP | 24 | 51.75 | 1.1 | | | | | | | |
| | 0.6s | 1.80nm | | | | 4.4mb | WHN | 18.74 | 332 | eP | 47 | 44.40 | -2.3 | | | | eS | 25 | 02.50 | | | | | | | | |
| MLR | 66.25 | 44 | iPd | 17 | 47.00 | 0.5 | TIA | 22.93 | 345 | eP | 48 | 30.40 | -0.1 | BLS1 | 1.25 | 167 | eP | 24 | 57.15 | -0.3 | | | | | | | |
| ISR | 66.58 | 44 | eP | 17 | 48.00 | -0.6 | XAN | 24.24 | 328 | iPd | 48 | 43.20 | -0.1 | KMY | 1.49 | 201 | eP | 25 | 00.35 | -0.5 | | | | | | | |
| VRI | 66.87 | 43 | ePd | 17 | 50.50 | 0.2 | CHG | 24.73 | 284 | eP | 48 | 49.10 | 0.9 | MOL | 2.06 | 17 | eP | 25 | 08.77 | -0.3 | | | | | | | |
| CLI | 67.40 | 43 | eP | 17 | 55.00 | 1.3 | CD2 | 25.21 | 315 | eP | 48 | 52.90 | 0.2 | | | | eS | 25 | 35.42 | | | | | | | | |
| TLB | 67.50 | 45 | eP | 17 | 46.00 | -8.3X | TIY | 25.76 | 338 | iPc | 48 | 58.40 | 0.6 | NRA0 | 2.60 | 85 | eP | 25 | 17.80 | 1.0 | | | | | | | |
| ALQ | 67.76 | 304 | eP | 17 | 55.00 | -1.5 | | | | | | | | | | | iPg | 25 | 20.00 | | | | | | | | |
| | 1.5s | 29.17nm | | | | 5.2mb | BJI | 26.80 | 346 | eP | 49 | 07.00 | -0.2 | | | | eS | 25 | 53.30 | | | | | | | | |
| Z | 20s | 3.72um | | | | 5.6msz | MTN | 27.63 | 165 | eP | 49 | 15.00 | 0.1 | | | | | | | S.D. = 0.9 on 7 of 7 obs. | | | | | | | |
| TUH | 68.05 | 131 | iPc | 17 | 45.00 | -13.0X | SNY | 27.63 | 359 | Pc | 49 | 14.80 | 0.1 | | | | | | | % FEB 13, 1989 10h 59m 29.32 ± 0.80s | | | | | | | |
| CER | 68.19 | 131 | eP | 17 | 57.00 | -1.9 | LZH | 28.54 | 324 | eP | 49 | 23.00 | -0.3 | | | | | | | 60.605 N ± 6.7km 6.174 E ± 13.4km | | | | | | | |
| | 0.4s | 8.18nm | | | | 5.3mb | HHC | 28.86 | 340 | P | 49 | 26.40 | 0.3 | | | | | | | DEPTH = 10.0km (geophysicist) | | | | | | | |
| | | i | | | | 28 | 41.00 | GTA | 33.14 | 324 | eP | 50 | 04.00 | 0.1 | | | | | | SOUTHERN NORWAY (535) | | | | | | | |
| FFC | 68.60 | 326 | eP | 18 | 00.00 | -1.0 | WB5 | 35.20 | 163 | eP | 50 | 20.60 | -1.0 | | | | | | | MD 2.1 (BER). | | | | | | | |
| | 1.6s | 153.00nm | | | | 5.9mb | WRA | 35.25 | 163 | Pd | 50 | 21.20 | -0.8 | HYA | 0.56 | 1 | iP | 59 | 39.80 | -0.9 | | | | | | | |
| NUR | 69.88 | 28 | eP | 17 | 53.00 | -15.7X | | | | | | | | | | | eS | 59 | 47.48 | | | | | | | | |
| | 22s | 1.10um | | | | 5.1msz | WB2 | 35.26 | 163 | eP | 50 | 20.60 | -1.5 | ODD1 | 0.73 | 162 | iP | 59 | 43.53 | -0.2 | | | | | | | |
| | | LR | | | | 44 | 20.00 | QIS | 37.60 | 156 | eP | 50 | 42.00 | 0.2 | SUE | 0.83 | 304 | eP | 59 | 45.49 | 0.2 | | | | | | |
| BW06 | 71.04 | 312 | P | 18 | 15.60 | -0.9 | GUN | 38.22 | 297 | P | 50 | 47.40 | 0.0 | | | | eS | 59 | 57.29 | | | | | | | | |
| | 2.3s | 160.31nm | | | | 5.7mb | | | | | | | | | | | | | | BLS1 | 1.26 | 165 | iP | 59 | 52.88 | 0.1 | |
| CGY | 71.19 | 121 | eP | 18 | 15.50 | -1.8 | PKI | 38.55 | 297 | P | 50 | 49.70 | -0.5 | | | | | | | | | | iS | 00 | 09.93 | | |
| SUF | 71.31 | 26 | iP | 18 | 19.50 | 2.1 | ASPA | 38.70 | 166 | iPc | 50 | 51.50 | 0.4 | MOL | 2.08 | 18 | iP | 00 | 05.49 | 0.9 | | | | | | | |
| KSR | 71.48 | 121 | eP | 18 | 05.00 | -14.3X | KKN | 38.71 | 297 | P | 50 | 51.70 | 0.3 | | | | | | | | | | eS | 00 | 32.44 | | |
| FRS | 71.48 | 125 | eP | 18 | 20.00 | 1.0 | DMN | 38.82 | 297 | P | 50 | 52.60 | 0.2 | | | | | | | | | | | | | S.D. = 0.9 on 5 of 5 obs. | |
| | 1.0s | 15.00nm | | | | 5.1mb | GKN | 39.31 | 297 | P | 50 | 55.80 | -0.5 | | | | | | | | | | | | | % FEB 13, 1989 11h 25m 41.05 ± 0.19s | |
| PRY | 72.31 | 121 | eP | 18 | 11.00 | -13.3X | WARB | 40.11 | 177 | eP | 50 | 55.20 | -7.5X | | | | | | | | | | | | | 2.352 N ± 3.2km 126.716 E ± 5.3km | |
| KJF | 72.46 | 25 | eP | 18 | 26.00 | 1.7 | NWAO | 47.25 | 188 | iPd | 51 | 59.80 | -0.4 | | | | | | | | | | | | | DEPTH = 33.0km (normol) | |
| BPI | 72.54 | 121 | eP | 18 | 24.50 | -1.2 | | | | | | | | | | | | | | | | | | | | 5.2mb (22 obs.) 4.6msz (1 obs.) | |
| | 1.0s | 40.00nm | | | | 5.5mb | | | | | | | | | | | | | | | | | | | | | MOLUCCA PASSAGE (266) |
| SLR | 72.62 | 120 | iPc | 18 | 25.10 | -1.0 | | | | | | | | | | | | | | | | | | | | CENTROID, MOMENT TENSOR (HRV) | |
| | Z | 20s | | | | 6.0msz | STK | 48.65 | 160 | iPc | 52 | 12.40 | 1.3 | | | | | | | | | | | | | Data Used: GDSN | |
| | | e | | | | 28 | 38.00 | KEV | 79.38 | 339 | eP | 55 | 42.00 | 9.9X | | | | | | | | | | | | L.P.B.: 11S, 22C | |
| MSU | 72.64 | 308 | P | 18 | 25.70 | -0.4 | SOD | 80.02 | 337 | eP | 55 | 43.00 | 7.4X | | | | | | | | | | | | | Centroid Location: | |
| SES | 73.05 | 320 | eP | 18 | 28.00 | 0.0 | KJF | 80.26 | 334 | eP | 55 | 38.00 | 1.1 | | | | | | | | | | | | | Origin Time 11:25:42.3 0.9 | |
| SOD | 73.11 | 21 | eP | 18 | 29.00 | 1.0 | SUF | 81.27 | 333 | iP | 55 | 42.30 | 0.0 | | | | | | | | | | | | | Lot 2.33N FIX; Lon 126.77E FIX | |
| LRM | 73.44 | 315 | eP | 18 | 30.80 | 0.1 | | | | | | | | | | | | | | | | | | | | Dep 15.0 FIX Half-duration 1.7 | |
| KEV | 74.09 | 19 | iP | 18 | 34.60 | 0.9 | INK | 81.45 | 22 | eP | 55 | 44.00 | 0.8 | | | | | | | | | | | | | Moment Tensor: Scale 10**16 Nm | |
| GLA | 74.60 | 302 | eP | 18 | 38.00 | 0.6 | MBC | 82.41 | 12 | eP | 55 | 48.00 | 0.0 | | | | | | | | | | | | | Mrr=-5.87 0.82 Mtt=0.28 0.63 | |
| EDM | 74.84 | 323 | eP | 18 | 37.00 | -1.4 | NUR | 82.52 | 331 | iP | 55 | 56.10 | 7.3X | | | | | | | | | | | | | Mff=-6.15 1.08 Mrt=-7.39 1.86 | |
| ALE | 75.23 | 357 | eP | 18 | 37.00 | -3.1X | SLL | 87.79 | 332 | eP | 56 | 14.00 | -1.2 | | | | | | | | | | | | | Mrf=-8.13 2.09 Mtf=-4.26 0.72 | |
| | 0.8s | 6.00nm | | | | 4.7mb | | | | | | | | | | | | | | | | | | | | | Principal Axes: |
| TPC | 75.63 | 303 | eP | 18 | 46.00 | 2.7 | YKA | 91.05 | 23 | P | 56 | 32.30 | 1.9 | | | | | | | | | | | | | T Vol=12.23 Plg=59 Azm=148 | |
| PLM | 76.31 | 302 | eP | 18 | 50.00 | 2.7 | | | | | | | | | | | | | | | | | | | | N 1.81 11 38 | |
| TNP | 76.59 | 307 | P | 18 | 48.70 | -0.1 | | | | | | | | | | | | | | | | | | | | P -14.04 29 302 | |
| YKC | 76.70 | 332 | eP | 18 | 46.00 | -2.6 | | | | | | | | | | | | | | | | | | | | Best Double Couple: Mo=1.3*10**17 | |
| RVR | 76.73 | 303 | eP | 18 | 51.00 | 1.6 | | | | | | | | | | | | | | | | | | | | NP1: Strike= 4 Dip=19 Slip= 54 | |
| YKA | 76.76 | 332 | P | 18 | 47.80 | -1.2 | | | | | | | | | | | | | | | | | | | | NP2: 222 74 102 | |
| CLC | 76.89 | 305 | eP | 18 | 53.00 | 2.6 | | | | | | | | | | | | | | | | | | | | | |
| SBB | 77.09 | 304 | eP | 18 | 53.00 | 1.5 | | | | | | | | | | | | | | | | | | | | | |
| KVN | 77.28 | 308 | P | 18 | 52.00 | -0.7 | | | | | | | | | | | | | | | | | | | | | |
| ISA | 77.61 | 305 | eP | 18 | 57.00 | 2.7 | | | | | | | | | | | | | | | | | | | | | |
| MSL | 78.29 | 55 | eP | 19 | 01.00 | 3.0X | | | | | | | | | | | | | | | | | | | | | |
| PNT | 78.49 | 319 | eP | 18 | 59.00 | 0.1 | | | | | | | | | | | | | | | | | | | | | |
| | 1.4s | 44.00nm | | | | | | | | | | | | | | | | | | | | | | | | | |

13d 11h

| | | | | | | |
|-------|-------|----------|------|-------|--------|-------|
| BAG | 15.22 | 337 | eP | 29 | 18.00 | 2.5 |
| KHK I | 15.36 | 226 | ePc | 29 | 25.20 | 8.0X |
| | | | e | 31 | 52.00 | |
| MTN | 15.72 | 164 | eP | 29 | 21.00 | -0.8 |
| | | | e | 29 | 27.00 | |
| | | | e | 32 | 20.00 | |
| TRT | 17.24 | 234 | iPd | 29 | 43.00 | 2.0 |
| KNA | 18.10 | 174 | eP | 29 | 52.00 | 0.3 |
| | 0.6s | 114.00nm | | | 5.2mb | |
| WB5 | 23.34 | 162 | eP | 30 | 46.90 | -0.5 |
| | | | eS | 34 | 57.70 | |
| WRA | 23.39 | 162 | Pc | 30 | 47.20 | -0.7 |
| | 0.4s | 30.00nm | | | 5.2mb | |
| WB2 | 23.39 | 162 | eP | 30 | 46.90 | -1.1 |
| | | | eS | 34 | 57.70 | |
| OIZ | 23.40 | 316 | eP | 30 | 48.00 | 0.0 |
| | | | eS | 34 | 47.00 | |
| PMG | 23.48 | 120 | eP | 30 | 49.50 | 0.7 |
| OZH | 23.79 | 341 | eP | 30 | 52.00 | 0.3 |
| | Z 28s | 2.20um | | | 4.5MsZ | |
| | N 28s | 2.20um | | | | |
| MBL | 24.32 | 196 | eP | 30 | 58.00 | 1.0 |
| | 0.5s | 14.00nm | | | 4.8mb | |
| GZH | 24.35 | 329 | P | 30 | 57.00 | -0.2 |
| OIS | 26.04 | 152 | eP | 31 | 12.00 | -1.2 |
| ASPA | 26.79 | 165 | iPc | 31 | 19.40 | -0.8 |
| | 0.6s | 30.00nm | | | 5.1mb | |
| | | | ePP | 32 | 59.70 | |
| | | | ePcP | 34 | 42.90 | |
| | | | eS | 35 | 57.30 | |
| NANU | 27.06 | 203 | eP | 31 | 21.00 | -1.6 |
| WARB | 28.37 | 180 | iPd | 31 | 27.60 | -6.8X |
| SSE | 29.06 | 350 | Pd | 31 | 42.00 | 1.4 |
| | 1.2s | 28.00nm | | | 4.8mb | |
| | Z 16s | 0.50um | | | 4.2MsZ | |
| | N 10s | 0.40um | | | | |
| | | e(S) | 36 | 09.00 | | |
| NST | 29.34 | 298 | eP | 31 | 44.00 | 0.7 |
| CTA | 29.41 | 140 | iPc | 31 | 43.20 | -0.7 |
| | 1.3s | 55.77nm | | | 5.1mb | |
| MEKA | 29.86 | 195 | iPd | 31 | 47.90 | 0.0 |
| | 0.4s | 16.00nm | | | 5.2mb | |
| WHN | 30.39 | 339 | eP | 31 | 53.00 | 0.6 |
| | Z 20s | 1.27um | | | 4.6MsZ | |
| | E 20s | 1.75um | | | | |
| GYA | 30.74 | 323 | P | 31 | 55.40 | -0.4 |
| BDT | 30.99 | 300 | eP | 31 | 57.30 | -0.5 |
| | 0.8s | 31.10nm | | | 5.2mb | |
| CHG | 31.74 | 303 | iPc | 32 | 03.90 | -0.6 |
| | 1.0s | 39.00nm | | | 5.2mb | |
| KMI | 32.35 | 316 | Pc | 32 | 10.00 | 0.0 |
| FORR | 33.04 | 178 | eP | 32 | 15.00 | -0.6 |
| | 0.4s | 101.00nm | | | 6.1mb | |
| COOL | 33.47 | 189 | eP | 32 | 19.00 | -0.5 |
| | 0.5s | 11.00nm | | | 5.0mb | |
| TSRJ | 34.12 | 14 | P | 32 | 24.70 | -0.3 |
| BAL | 34.14 | 195 | eP | 32 | 25.00 | -0.2 |
| | 0.3s | 3.00nm | | | 4.7mb | |
| IIDJ | 34.56 | 16 | P | 32 | 28.10 | -0.7 |
| KLB | 34.81 | 193 | eP | 32 | 31.00 | 0.0 |
| | 0.4s | 17.00nm | | | 5.3mb | |
| TIA | 34.84 | 346 | eP | 32 | 28.80 | -2.4 |
| CHJJ | 35.40 | 17 | P | 32 | 34.10 | -1.9 |
| MUN | 35.57 | 195 | iPc | 32 | 38.30 | 0.9 |
| MTMJ | 35.57 | 15 | P | 32 | 36.60 | -0.9 |
| XAN | 35.64 | 334 | Pc | 32 | 36.40 | -1.6 |
| MAT | 35.64 | 16 | iPc | 32 | 36.30 | -1.7 |
| | 0.8s | 35.82nm | | | 5.4mb | |
| RMO | 35.71 | 145 | eP | 32 | 38.00 | -0.7 |
| CD2 | 35.75 | 325 | eP | 32 | 38.10 | -0.9 |
| KAJ | 35.91 | 19 | P | 32 | 36.80 | -3.4X |
| NIJ | 36.51 | 17 | P | 32 | 44.40 | -0.9 |
| DL2 | 36.68 | 353 | Pd | 32 | 48.00 | 1.4 |
| STK | 36.86 | 159 | eP | 32 | 48.00 | -0.3 |
| RKG | 37.36 | 193 | eP | 32 | 58.00 | 5.5X |
| TIY | 37.56 | 341 | eP | 32 | 54.00 | -0.2 |
| | N 21s | 1.20um | | | | |
| YAMJ | 37.68 | 17 | P | 32 | 55.60 | 0.5 |
| CMS | 38.24 | 153 | iPd | 33 | 01.00 | 1.1 |
| BJI | 38.72 | 347 | eP | 33 | 03.50 | -0.3 |
| ADE | 38.79 | 164 | eP | 33 | 05.10 | 0.6 |
| | 0.7s | 54.79nm | | | 5.4mb | |
| BRS | 38.79 | 141 | Pd | 33 | 03.20 | -1.4 |
| | | | i | 33 | 09.20 | |
| OFUJ | 39.02 | 19 | eP | 33 | 06.40 | 0.1 |
| SNY | 39.40 | 356 | eP | 33 | 09.40 | 0.0 |
| | E 18s | 0.60um | | | | |

| | | | | | | |
|------|-----------------------|-----------------------|-------|----|--------|-------|
| LZH | 39.68 | 330 | eP | 33 | 12.50 | 0.4 |
| | 2.0s | 82.00nm | | | 5.1mb | |
| COO | 40.60 | 146 | iP | 33 | 20.00 | 0.4 |
| SHL | 40.69 | 308 | iP | 33 | 20.00 | -0.5 |
| HHC | 40.70 | 342 | P | 33 | 20.60 | 0.3 |
| | Z 26s | 2.00um | | | 4.9MsZ | |
| CN2 | 41.29 | 359 | eP | 33 | 28.00 | 3.1X |
| BWA | 41.89 | 153 | eP | 33 | 31.00 | 0.9 |
| MDJ | 42.16 | 3 | eP | 33 | 32.50 | 0.4 |
| | Z 32s | 1.50um | | | 4.7MsZ | |
| CAN | 42.89 | 153 | eP | 33 | 38.80 | 0.5 |
| CNB | 43.06 | 153 | eP | 33 | 40.00 | 0.3 |
| TOO | 43.37 | 158 | eP | 33 | 43.00 | 0.9 |
| GTA | 44.27 | 330 | P | 33 | 49.70 | 0.2 |
| | Z 25s | 1.00um | | | 4.6MsZ | |
| | E 30s | 1.10um | | | | |
| GUN | 46.53 | 307 | P | 34 | 06.90 | -1.1 |
| PKI | 46.76 | 306 | P | 34 | 08.90 | -0.9 |
| KKK | 46.96 | 307 | P | 34 | 10.50 | -0.7 |
| DMN | 47.02 | 306 | P | 34 | 11.10 | -0.6 |
| | 1.0s | 62.00nm | | | 5.6mb | |
| GKN | 47.56 | 307 | P | 34 | 15.00 | -0.9 |
| | 0.9s | 42.00nm | | | 5.5mb | |
| KOD | 49.52 | 281 | eP | 34 | 31.50 | 0.1 |
| HYB | 49.58 | 291 | eP | 34 | 30.80 | -0.7 |
| | 1.0s | 50.00nm | | | 5.5mb | |
| GBA | 49.96 | 286 | P | 34 | 33.00 | -1.3 |
| WMO | 53.84 | 326 | iPd | 35 | 03.00 | -0.2 |
| NDI | 53.87 | 304 | eP | 35 | 02.00 | -1.5 |
| KSH | 58.98 | 316 | eP | 35 | 41.00 | 0.9 |
| MSZ | 59.48 | 147 | P | 35 | 42.00 | -1.2 |
| QUE | 62.87 | 303 | eP | 36 | 06.00 | -0.7 |
| MHI | 70.33 | 308 | iPc | 36 | 54.00 | 0.1 |
| AVY | 80.35 | 250 | iPd | 37 | 52.50 | 1.1 |
| TTA | 82.13 | 27 | ePc | 38 | 01.10 | 1.4 |
| KDC | 83.10 | 32 | eP | 38 | 05.70 | 1.0 |
| BRW | 83.48 | 18 | ePc | 38 | 08.30 | 1.9 |
| IMA | 83.64 | 24 | iPc | 38 | 09.00 | 1.5 |
| | 0.9s | 28.10nm | | | 5.4mb | |
| PMR | 85.15 | 29 | ePc | 38 | 15.40 | 0.4 |
| | 0.8s | 22.30nm | | | 5.4mb | |
| NPA | 88.16 | 255 | eP | 38 | 33.00 | 2.5 |
| NAI | 89.96 | 269 | iPd | 38 | 46.00 | 6.5X |
| | 1.0s | 9.00nm | | | 5.0mb | |
| INK | 91.44 | 22 | eP | 38 | 45.00 | 0.1 |
| MBC | 93.29 | 13 | eP | 38 | 53.00 | -0.3 |
| VRI | 95.28 | 316 | ePd | 39 | 05.00 | 2.0 |
| YKA | 100.75 | 24 | Pdiff | 39 | 28.30 | 0.9 |
| ALQ | 117.95 | 48 | ePKP | 44 | 42.00 | 15.2X |
| SAN | 145.04 | 154 | ePKP | 45 | 18.00 | 0.7 |
| PEL | 145.30 | 154 | iPKPd | 45 | 18.50 | 0.7 |
| CNCB | 159.62 | 136 | PKP | 45 | 42.00 | 2.9X |
| ZOBO | 159.88 | 134 | PKP | 45 | 41.00 | 1.6 |
| | S.D. = 1.0 | on 87 of 101 obs. | | | | |
| | FEB 13, 1989 | 11h 27m 54.84 ± 0.80s | | | | |
| | 41.685 N ± 6.7km | 19.443 E ± 6.4km | | | | |
| | DEPTH = 10.0km | (geophysicist) | | | | |
| | ALBANIA | (391) | | | | |
| | MD 2.5 (TTG). | | | | | |
| LACI | 0.21 | 104 | iPgc | 27 | 59.50 | 0.2 |
| ULC | 0.31 | 333 | ePg | 28 | 01.00 | -0.4 |
| | | | iSg | 28 | 08.00 | |
| SDA | 0.33 | 7 | iPgc | 28 | 02.50 | 0.8 |
| TIR | 0.46 | 137 | ePg | 28 | 03.50 | -0.8 |
| PUK | 0.49 | 43 | ePg | 28 | 05.00 | 0.2 |
| PHP | 0.75 | 89 | ePg | 28 | 08.20 | -1.2 |
| BDV | 0.75 | 323 | iPgc | 28 | 09.20 | -0.4 |
| | | | eSg | 28 | 20.20 | |
| TTG | 0.76 | 350 | ePg | 28 | 09.50 | -0.1 |
| | | | eSg | 28 | 21.50 | |
| BCI | 0.82 | 34 | iPg | 28 | 09.30 | -1.5 |
| HCY | 1.04 | 318 | ePg | 28 | 14.50 | 0.1 |
| | | | eSg | 28 | 30.00 | |
| OHR | 1.17 | 119 | ePn | 28 | 17.50 | 0.8 |
| NKY | 1.17 | 344 | ePg | 28 | 16.50 | -0.3 |
| | | | eSg | 28 | 35.50 | |
| BRY | 1.39 | 332 | ePg | 28 | 21.20 | 0.9 |
| | | | eSg | 28 | 41.30 | |
| SKO | 1.52 | 78 | iPn | 28 | 23.80 | 1.7 |
| | | | iSn | 28 | 46.80 | |
| | S.D. = 0.9 | on 14 of 14 obs. | | | | |
| | FEB 13, 1989 | 12h 15m 20.04 ± 0.39s | | | | |
| | 4.987 N ± 2.6km | 126.915 E ± 3.5km | | | | |
| | DEPTH = 88.4 ± 3.4 km | | | | | |

| | | | | | |
|-----------------------------------|------------------|-----------|----------|----------|----------------|
| | 5.7mb (53 obs.) | | | | |
| TALAUD ISLANDS | | | | | (263) |
| CENTROID, MOMENT TENSOR | | | | | (HRV) |
| Data Used: GDSN | | | | | |
| L.P.B.: 11S, 26C | | | | | |
| Centroid Location: | | | | | |
| Origin Time | | | | | 12:15:18.8 0.4 |
| Lot 5.12N 0.04 Lon 127.10E 0.08 | | | | | |
| Dep 25.4 3.7 Half-duration 2.1 | | | | | |
| Moment Tensor: Scale 10**17 Nm | | | | | |
| Mrr= 1.34 0.09 Mtt=-0.19 0.09 | | | | | |
| Mff=-1.15 0.16 Mrt=-1.69 0.25 | | | | | |
| Mrf= 1.70 0.30 Mtf= 0.47 0.08 | | | | | |
| Principal Axes: | | | | | |
| T Val= 2.82 Plg=58 Azm=216 | | | | | |
| N -0.15 9 321 | | | | | |
| P -2.67 30 56 | | | | | |
| Best Double Couple: Mo=2.7*10**17 | | | | | |
| NP1: Strike=172 Dip=17 Slip= 123 | | | | | |
| NP2: 319 76 81 | | | | | |
| DAV | 2.48 | 328 | ePc | 16 00.00 | 0.8 |
| MNI | 4.08 | 211 | iPd | 16 21.30 | -0.1 |
| | | | eS | 17 05.50 | |
| TSM | 8.85 | 265 | ePd | 17 30.00 | 2.9 |
| | 1.1s | 557.60nm | | | 6.3mb |
| PCI | 9.18 | 231 | iP | 17 32.60 | 1.0 |
| | | | iS | 17 53.80 | |
| MKS | 12.57 | 216 | ePc | 18 17.00 | 0.0 |
| BAG | 12.94 | 332 | eP | 18 23.90 | 1.8 |
| | | | eS | 20 53.00 | |
| KHK I | 17.41 | 220 | ePd | 19 18.50 | -0.3 |
| | | | e | 24 37.00 | |
| MTN | 18.20 | 167 | iPd | 19 25.20 | -3.3X |
| | 0.8s | 391.00nm | | | 5.7mb |
| | | | e | 19 43.00 | |
| GUMO | 19.66 | 63 | eP | 19 42.70 | -1.9 |
| | 1.1s | 405.18nm | | | 5.7mb |
| PJG | 19.66 | 63 | eP | 19 43.50 | -1.1 |
| GUA | 19.68 | 63 | eP | 19 42.80 | -2.0 |
| | 1.3s | 446.15nm | | | 5.6mb |
| KNA | 20.68 | 175 | eP | 19 53.50 | -1.6 |
| ANP | 20.74 | 346 | eP | 19 59.00 | 3.3X |
| HKC | 21.18 | 326 | Pc | 19 58.20 | -1.8 |
| | | | S | 23 54.00 | |
| MCO | 21.39 | 324 | eP | 20 03.40 | 1.3 |
| OZH | 21.39 | 339 | Pd | 20 02.50 | 0.3 |
| | N 28s | 2.20um | | | |
| | E 28s | 2.20um | | | |
| | | S | 23 52.00 | | |
| OIZ | 21.73 | 311 | Pd | 20 04.60 | -1.0 |
| | N 10s | 1.20um | | | |
| GZH | 22.26 | 325 | Pd | 20 09.50 | -1.3 |
| | Z 34s | 3.30um | | | 4.5MsZ |
| | | eS | 24 04.00 | | |
| KGM | 23.73 | 264 | ePd | 20 26.20 | 1.0 |
| | 1.1s | 1457.40nm | | | 6.3mb |
| PMG | 24.73 | 125 | e(P) | 20 20.00 | -14.7X |
| WB5 | 25.77 | 164 | iPc | 20 43.00 | -1.5 |
| | | eS | 25 09.50 | | |
| IPM | 25.80 | 270 | ePc | 20 44.00 | -0.8 |
| | 1.0s | 388.50nm | | | 5.9mb |
| WRA | 25.83 | 164 | Pd | 20 44.30 | -0.6 |
| | 0.7s | 166.90nm | | | 5.7mb |
| WB2 | 25.83 | 164 | iPc | 20 43.00 | -2.0 |
| | | eS | 25 09.50 | | |
| SNG | 26.24 | 276 | eP | 20 46.80 | -2.0 |
| | 0.8s | 268.66nm | | | 5.8mb |
| KAGJ | 26.33 | 8 | P | 20 49.50 | 0.1 |
| SSE | 26.52 | 349 | Pc | 20 53.00 | 1.8 |
| | 1.0s | 98.00nm | | | 5.3mb |
| | Z 20s | 0.90um | | | 4.3MsZ |
| | N 10s | 0.40um | | | |
| | | pP | 21 12.00 | 84kmX | |
| | | S | 25 20.00 | | |
| | | PcS | 27 50.00 | | |
| IBL | 26.90 | 195 | iPc | 20 54.30 | -0.4 |
| | 0.7s | 136.00nm | | | 5.6mb |
| UMJ | 27.65 | 7 | P | 21 01.30 | -0.1 |
| IJ2 | 27.96 | 345 | Pc | 21 05.00 | 0.8 |
| | Z 18s | 0.90um | | | 4.4MsZ |
| | | S | 25 45.00 | | |
| PHN | 28.04 | 336 | P | 21 05.00 | 0.0 |
| | 1.0s | 2.10nm | | | 3.7mb X |
| | Z 28s | 23.00um | | | 5.6MsZ |
| | | S | 25 48.00 | | |
| IS | 28.28 | 154 | iPc | 21 06.40 | -0.8 |

| | | | | | | | | | | | | | | |
|------|-------|----------|----------|---------|------|----------|----------|----------|---------|-------|---------|------------|----------|--------|
| | 0.6s | 76.00nm | 5.5mb | | 0.8s | 142.00nm | 5.9mb | KJF | 89.55 | 334 | iP | 28 | 08.20 | -0.3 |
| NST | 28.37 | 294 ePc | 21 08.00 | 0.0 | | e | 22 45.00 | | | 0.8s | 42.50nm | | | 5.7mb |
| GYA | 28.82 | 320 P | 21 11.60 | -0.6 | SHL | 39.30 | 305 iP | 22 41.40 | -0.9 | IKL | 89.69 | 306 iP | 28 09.50 | -0.3 |
| | | PcP | 24 20.00 | | | iS | 28 34.90 | | BBTK | 90.03 | 310 iPc | 28 11.50 | 0.0 | |
| | | S | 25 55.00 | | MRRJ | 39.35 | 17 eP | 22 43.10 | 0.8 | NAI | 90.22 | 269 iPc | 28 15.00 | 2.0 |
| SHNJ | 29.25 | 7 eP | 21 15.20 | -0.6 | MDJ | 39.54 | 3 eP | 22 43.00 | -0.8 | | 1.0s | 60.00nm | | 5.7mb |
| ASPA | 29.28 | 167 iPc | 21 14.00 | -2.3 | RKG | 39.96 | 193 eP | 22 52.00 | 4.6X | SUF | 90.52 | 333 iP | 28 12.60 | -0.5 |
| | | eS | 26 05.20 | | HOJJ | 39.99 | 19 P | 22 49.40 | 1.9 | | 0.4s | 22.60nm | | 5.8mb |
| NANU | 29.56 | 202 eP | 21 18.30 | -0.3 | CMS | 40.51 | 155 iPc | 22 52.90 | 0.9 | MBC | 90.69 | 13 eP | 28 13.00 | -0.7 |
| | 0.3s | 15.00nm | | 5.2mb | BRS | 40.75 | 144 P | 22 53.00 | -1.0 | | 0.7s | 7.00nm | | 5.0mb |
| SHK | 29.88 | 10 eP | 21 21.50 | 0.1 | KUSJ | 41.10 | 20 P | 22 57.60 | 1.0 | NUR | 91.70 | 331 iP | 28 18.30 | -0.2 |
| BDT | 29.92 | 296 eP | 21 21.70 | -0.2 | ADE | 41.26 | 165 iPc | 22 59.10 | 0.9 | | 0.6s | 19.60nm | | 5.6mb |
| | 0.7s | 37.80nm | | 5.2mb | | 0.5s | 100.00nm | | 5.9mb | ALE | 92.50 | 1 eP | 28 23.00 | 1.1 |
| CHG | 30.56 | 299 ePc | 21 26.00 | -1.6 | ASAJ | 41.36 | 17 P | 23 00.00 | 1.2 | | 0.8s | 7.00nm | | 5.1mb |
| | 1.1s | 82.28nm | | 5.4mb | LSA | 41.76 | 310 iPc | 23 03.50 | 0.6 | YLV | 92.50 | 311 iP | 28 21.90 | -0.9 |
| KMI | 30.64 | 313 iPc+ | 21 28.50 | 0.0 | | S | 29 11.50 | | ELL | 92.65 | 307 iP | 28 23.10 | -0.5 | |
| Z | 24s | 2.70um | | 4.8MsZx | GTA | 42.13 | 328 iPc | 23 05.30 | 0.0 | CFR | 92.65 | 316 ePd | 28 24.00 | 0.8 |
| | | pP | 21 39.00 | 38kmX | | 3.0s | 0.30nm | | 2.6mb X | ISK | 92.66 | 311 eP | 28 23.70 | 0.3 |
| | | sP | 21 45.00 | | | Z | 25s | 2.80um | | BIR | 92.83 | 317 eP | 28 25.00 | 1.0 |
| | | eS | 26 24.00 | | E | 19s | 1.70um | | 5.0MsZx | TLB | 92.84 | 315 ePd | 28 25.00 | 0.9 |
| WARB | 30.99 | 180 eP | 21 23.50 | -7.7X | | | eS | 29 10.00 | | PPE | 92.84 | 317 ePc | 28 24.50 | 0.4 |
| CTA | 31.34 | 143 iPc | 21 33.30 | -1.1 | COO | 42.68 | 148 iPc | 23 10.00 | 0.2 | PSN | 92.88 | 314 iPd | 28 26.00 | 1.7 |
| | 1.3s | 203.85nm | | 5.7mb | | | e | 24 55.00 | | CLI | 93.01 | 317 ePd | 28 26.00 | 1.1 |
| | | iS | 26 37.00 | | BWA | 44.14 | 154 iPc | 23 23.00 | 1.4 | CTT | 93.12 | 312 eP | 28 24.70 | -0.8 |
| TSRJ | 31.53 | 14 P | 21 35.70 | -0.2 | GUN | 45.15 | 305 Pc | 23 30.00 | -0.2 | DMK | 93.51 | 312 eP | 28 27.10 | -0.2 |
| IIDJ | 32.00 | 17 P | 21 39.30 | -0.7 | CAN | 45.15 | 154 iPc | 23 30.10 | 0.4 | VRI | 93.52 | 316 iPc | 28 28.00 | 0.7 |
| TIA | 32.35 | 345 Pc | 21 42.70 | -0.4 | CNB | 45.30 | 154 iPc | 23 32.20 | 1.3 | ISR | 93.78 | 316 ePc | 28 30.00 | 1.5 |
| | | PcP | 24 29.30 | | PKI | 45.41 | 304 Pc | 23 31.40 | -0.8 | MLR | 94.13 | 316 iPc | 28 30.50 | 0.3 |
| | | S | 26 52.30 | | KKN | 45.59 | 305 Pc | 23 32.90 | -0.6 | | e | 52 00.00 | | |
| MEKA | 32.45 | 194 iPc | 21 43.50 | -0.5 | DMN | 45.67 | 304 Pc | 23 33.50 | -0.7 | JMB | 94.25 | 313 iP | 28 31.00 | 0.3 |
| | 0.5s | 175.00nm | | 6.1mb | TOO | 45.74 | 159 eP | 23 35.00 | 0.7 | IZM | 94.46 | 309 eP | 28 31.00 | -0.8 |
| CHJJ | 32.85 | 18 P | 21 44.10 | -3.3X | GKN | 46.20 | 304 Pc | 23 37.50 | -0.8 | EZN | 94.93 | 311 eP | 28 33.50 | -0.3 |
| MTMJ | 33.00 | 16 P | 21 46.70 | -2.1 | DZM | 47.12 | 126 iP | 23 45.50 | 0.0 | SPA | 94.95 | 180 ePc | 28 34.90 | 1.3 |
| MAT | 33.07 | 17 iPc | 21 46.00 | -3.3X | HYB | 48.88 | 289 iPc | 23 57.60 | -1.5 | | 1.0s | 28.00nm | | 5.6mb |
| | 0.9s | 36.97nm | | 5.2mb | | 1.0s | 150.00nm | | 5.9mb | KAP | 95.02 | 306 eP | 28 33.90 | -0.5 |
| Z | 20s | 1.42um | | 4.7MsZ | | | i | 25 23.00 | | PRK | 95.08 | 310 eP | 28 34.20 | -0.3 |
| | | eS | 27 02.00 | | KOD | 49.25 | 279 eP | 24 01.50 | -0.8 | UPP | 95.25 | 331 iP | 28 34.10 | -0.8 |
| KAKJ | 33.38 | 20 P | 21 49.40 | -2.5 | GBA | 49.49 | 284 P | 24 02.00 | -1.8 | KDZ | 95.26 | 312 iPd | 28 35.00 | -0.4 |
| XAN | 33.39 | 332 iPc | 21 50.90 | -1.3 | TAU | 51.14 | 161 Pd | 24 17.00 | 1.1 | RDO | 95.27 | 312 eP | 28 34.60 | -0.8 |
| | 1.0s | 0.30nm | | 3.1mb X | NDI | 52.60 | 302 iPc | 24 24.50 | -2.7 | RZN | 95.77 | 313 iPc | 28 37.00 | -0.9 |
| | | S | 27 07.40 | | POO | 0.8s | 197.76nm | | 6.2mb | PGB | 95.99 | 314 iP | 28 38.00 | -0.7 |
| CD2 | 33.75 | 323 iPc | 21 54.10 | -1.3 | BOM | 53.47 | 289 iPc | 24 32.20 | -1.5 | DAG | 96.06 | 352 iPc | 28 39.10 | 0.8 |
| | | epP | 22 11.00 | 70kmX | | 54.49 | 290 eP | 24 36.20 | -4.9X | | 0.9s | 58.82nm | | 6.1mb |
| | | esP | 22 22.00 | | | | eS | 32 13.60 | | NPS | 96.32 | 306 eP | 28 41.80 | 1.5 |
| | | eS | 27 10.00 | | KSH | 57.27 | 314 eP | 25 01.50 | 0.5 | MMB | 96.51 | 313 iP | 28 40.00 | -1.1 |
| NIJJ | 33.95 | 17 P | 21 54.70 | -2.2 | MSZ | 61.58 | 148 P | 25 29.80 | -0.5 | PTZ | 96.60 | 256 iPc | 28 41.60 | -0.4 |
| DL2 | 34.10 | 353 eP | 21 58.50 | 0.3 | | 0.8s | 89.00nm | | 5.9mb | VTS | 96.67 | 314 iPc | 28 43.00 | 1.1 |
| Z | 24s | 0.70um | | 4.3MsZx | QUE | 61.64 | 302 iPc | 25 30.00 | -1.3 | KRA | 96.98 | 322 eP | 28 43.10 | 0.2 |
| E | 12s | 0.70um | | | | | e | 26 13.80 | | | e | 28 47.30 | | |
| | | S | 27 18.00 | | MHI | 68.90 | 307 iPc | 26 17.30 | -0.5 | PLG | 96.98 | 312 eP | 28 42.00 | -1.2 |
| YAMJ | 35.13 | 18 P | 22 05.30 | -1.7 | | 0.9s | 225.21nm | | 6.0mb | HFS | 97.00 | 332 eP | 28 42.20 | -0.6 |
| TIY | 35.15 | 340 iPc | 22 07.40 | 0.1 | | | eS | 35 44.00 | | | 1.2s | 84.30nm | | 6.1mb |
| | Z | 28s | 1.00um | | DHR | 75.96 | 296 eP | 26 58.50 | -0.9 | BZS | 97.06 | 317 eP | 28 43.50 | 0.1 |
| | | pP | 22 25.50 | 74kmX | RYD | 79.14 | 294 eP | 27 16.50 | -0.6 | ATH | 97.29 | 309 eP | 28 43.50 | -1.1 |
| | | iS | 27 37.50 | | TAB | 79.54 | 308 e(P) | 27 19.00 | -0.1 | NEO | 97.38 | 311 eP | 28 43.50 | -1.5 |
| MRWA | 35.59 | 197 eP | 22 10.50 | -0.5 | TTA | 79.70 | 27 eP | 27 20.10 | 0.7 | VAY | 97.42 | 313 iPc | 28 44.30 | -0.8 |
| | 0.3s | 7.00nm | | 5.1mb | SLY | 80.14 | 305 ePd | 27 21.50 | -0.6 | VAM | 97.43 | 307 eP | 28 46.00 | 0.7 |
| COOL | 36.09 | 188 eP | 22 13.00 | -2.2 | KDC | 80.78 | 32 iPc | 27 25.50 | 0.5 | PSZ | 97.60 | 320 eP | 28 45.80 | -0.1 |
| | 0.7s | 27.00nm | | 5.3mb | BRW | 80.93 | 19 iPc | 27 27.20 | 1.6 | NRA0 | 97.73 | 333 P | 28 44.20 | -1.9 |
| BJI | 36.22 | 346 eP | 22 16.00 | -0.1 | BHD | 81.04 | 303 ePd | 27 27.50 | 0.5 | NB2 | 97.75 | 334 P | 28 45.30 | -1.0 |
| Z | 20s | 0.90um | | 4.5MsZ | | | iS | 37 41.00 | | | 0.8s | 21.40nm | | 5.7mb |
| | | ePcP | 24 41.00 | | IMA | 81.17 | 24 iPc | 27 28.20 | 1.0 | BEO | 98.06 | 316 iP | 28 48.50 | 0.6 |
| | | eS | 27 52.00 | | | 0.8s | 35.10nm | | 5.3mb | SKO | 98.09 | 313 iPc | 28 47.50 | -0.6 |
| | | ScS | 32 28.00 | | AVY | 81.42 | 250 iPc | 27 29.56 | 0.2 | KZN | 98.24 | 312 eP | 28 47.50 | -1.5 |
| OFUJ | 36.48 | 19 P | 22 18.20 | -0.1 | MSL | 82.05 | 306 ePc | 27 31.50 | -0.7 | YKA | 98.29 | 24 P | 28 49.10 | 0.5 |
| BAL | 36.71 | 195 iPc | 22 25.20 | 4.8X | PMR | 82.76 | 29 ePc | 27 35.30 | 0.0 | SRO | 98.65 | 320 iP | 28 50.90 | 0.4 |
| | 0.4s | 54.00nm | | 5.8mb | | 1.1s | 45.30nm | | 5.3mb | OHR | 98.77 | 313 iP | 28 50.10 | -1.2 |
| SNY | 36.80 | 356 iPd | 22 21.20 | 0.2 | ARO | 83.22 | 281 iP+ | 27 40.00 | 1.4 | PHP | 98.88 | 313 eP | 28 51.30 | -0.4 |
| Z | 28s | 1.20um | | 4.5MsZx | FBA | 83.51 | 25 ePc | 27 38.90 | -0.2 | KSP | 98.96 | 323 iPc | 28 52.50 | 0.6 |
| N | 24s | 1.10um | | | TOA | 84.18 | 28 ePc | 27 43.60 | 1.0 | | 1.1s | 43.00nm | | 5.9mb |
| | | S | 27 52.00 | | MAW | 84.99 | 200 iPc | 27 47.70 | 1.3 | | e | 32 08.00 | | |
| KLB | 37.41 | 193 iPc | 22 26.00 | -0.2 | | 1.0s | 63.00nm | | 5.5mb | BCI | 98.98 | 314 eP | 28 52.30 | 0.2 |
| | 0.4s | 31.00nm | | 5.6mb | SBA | 85.55 | 172 ePd | 27 51.90 | 2.9 | LSK | 99.15 | 312 eP | 28 48.70 | -4.4X |
| AOMJ | 37.43 | 17 eP | 22 28.30 | 2.1 | KVT | 87.41 | 311 iP | 27 59.60 | 0.7 | PUK | 99.19 | 314 eP | 28 42.10 | -10.9X |
| RMQ | 37.77 | 147 iPc | 22 29.10 | -0.2 | BHL | 88.30 | 304 P | 28 08.00 | 4.6X | ZST | 99.31 | 320 e(P) | 28 54.50 | 1.0 |
| | | e | 24 47.00 | | KEV | 88.78 | 340 iP | 28 04.80 | -0.1 | TIR | 99.39 | 313 eP | 28 53.70 | -0.3 |
| MUN | 38.15 | 195 iPc | 22 32.30 | -0.1 | | 0.8s | 30.80nm | | 5.5mb | LACI | 99.42 | 313 eP | 28 53.50 | -0.7 |
| | 0.5s | 128.00nm | | 6.1mb | INK | 88.93 | 22 eP | 28 05.50 | -0.1 | SDA | 99.48 | 314 eP | 28 55.00 | 0.6 |
| HHC | 38.27 | 341 iPc | 22 34.60 | 1.1 | NPA | 89.03 | 255 iP | 28 08.00 | 1.0 | BUL | 99.48 | 250 iPd | 28 54.60 | -0.4 |
| Z | 26s | 1.50um | | 4.7MsZx | | 0.9s | 170.00nm | | 6.2mb | TPE | 99.55 | 312 eP | 28 52.00 | -2.8 |
| | | S | 28 26.00 | | | | e | 29 10.00 | | LSZ | 99.70 | 255 iPd | 28 56.90 | 0.9 |
| BTO | 38.57 | 339 P | 22 36.50 | 0.5 | | | eS | 38 51.50 | | PRU | 100.30 | 323 Pdiff | 28 58.50 | 0.5 |
| | | S | 28 31.00 | | NOH | 89.16 | 301 eP | 28 07.00 | -0.6 | BRG | 100.34 | 324 iPdiff | 28 58.60 | 0.5 |
| CN2 | 38.68 | 358 eP | 22 35.00 | -1.7 | PRNI | 89.16 | 300 iPc | 28 08.50 | 1.0 | | 1.4s | 36.00nm | | 5.8mb |
| NWAO | 38.81 | 193 iPc | 22 38.00 | 0.1 | MBH | 89.32 | 300 iPc | 28 09.50 | 1.3 | | e | 29 15.40 | | |
| | 0.6s | 73.00nm | | 5.7mb | SOD | 89.38 | 338 iP | 28 07.30 | -0.4 | | i | 33 04.70 | | |
| STK | 39.24 | 160 iPc | 22 41.70 | 0.2 | | | | | | CLL | 100.73 | 324 iPdiff | 28 59.80 | 0.0 |

13d 12h

| | | | | | |
|-------------------------------|--------|---------|-----------|--------|------------|
| PTJ | 100.78 | 318 | ePdiff29 | 00.60 | 0.3 |
| KHC | 101.19 | 322 | Pdiff129 | 02.50 | 0.5 |
| | 1.3s | 18.00nm | | 5.6mb | |
| | | e | 29 | 22.00 | |
| VBY | 101.37 | 318 | e(Pdiff29 | 03.90 | 1.1 |
| LJU | 101.67 | 319 | ePdiff29 | 05.00 | 0.8 |
| MOX | 101.80 | 324 | ePdiff29 | 05.00 | 0.4 |
| | 1.6s | 43.00nm | | 5.9mb | |
| | | e | 33 | 05.00 | |
| CEY | 101.84 | 319 | e(Pdiff29 | 05.00 | 0.0 |
| KBA | 102.08 | 320 | ePdiff29 | 04.50 | -1.7 |
| | 1.0s | 13.40nm | | 5.6mb | |
| VOY | 102.09 | 319 | e(Pdiff29 | 06.10 | -0.1 |
| | | e | 29 | 25.90 | |
| RBL | 102.16 | 319 | Pdiff29 | 06.00 | -0.4 |
| GRB1 | 102.26 | 323 | ePdiff29 | 08.30 | 1.6 |
| | 1.3s | 36.00nm | | 6.0mb | |
| GRF | 102.41 | 323 | ePdiff29 | 08.30 | 0.9 |
| | 1.3s | 36.00nm | | 6.0mb | |
| TDS | 102.44 | 312 | Pdiff29 | 08.80 | 1.1 |
| FVI | 102.61 | 320 | Pdiff29 | 08.20 | -0.1 |
| EDM | 103.19 | 32 | ePdiff29 | 12.00 | 1.2 |
| CTI | 103.54 | 320 | Pdiff29 | 13.00 | 0.4 |
| ARV | 103.61 | 317 | Pdiff29 | 14.00 | 1.1 |
| SDI | 103.62 | 315 | Pdiff29 | 12.00 | -0.2 |
| AZI | 103.79 | 315 | Pdiff29 | 14.50 | 0.9 |
| CRE | 104.24 | 317 | Pdiff29 | 16.50 | 0.7 |
| PGD | 104.30 | 318 | Pdiff29 | 17.50 | 1.3 |
| LRM | 107.05 | 39 | ePKP | 33 | 3.2X |
| BNG | 107.84 | 276 | iPdiff29 | 32.00 | -0.4 |
| | 0.5s | 10.00nm | | 6.2mb | |
| | | i | 33 | 42.30 | |
| BW06 | 110.29 | 41 | PKP | 33 | 45.20 1.2 |
| MSU | 110.36 | 46 | PKP | 33 | 45.00 0.8 |
| FRB | 110.47 | 7 | ePKP | 33 | 44.00 0.8 |
| GOL | 114.54 | 42 | PKP | 33 | 52.20 0.0 |
| ALO | 116.05 | 47 | ePKP | 33 | 56.00 0.8 |
| SCH | 119.33 | 9 | ePKP | 34 | 01.00 0.5 |
| ACO | 120.28 | 42 | ePKP | 34 | 04.00 1.1 |
| | 0.5s | 3.40nm | | | |
| FKO | 122.27 | 43 | ePKP | 34 | 07.80 1.1 |
| | 0.8s | 18.00nm | | | |
| SIO | 122.71 | 41 | ePKP | 34 | 08.30 0.8 |
| TUL | 122.95 | 41 | ePKP | 34 | 08.40 0.4 |
| | 1.2s | 20.50nm | | | |
| Z | 22s | 0.93um | | 5.4msz | |
| | | eLR | 14 | 00.00 | |
| LNO | 122.95 | 41 | ePKP | 34 | 08.50 0.7 |
| RLO | 123.30 | 40 | ePKP | 34 | 09.10 0.4 |
| GAC | 125.73 | 19 | ePKP | 34 | 14.50 1.4 |
| SHGH | 125.94 | 281 | ePKP | 34 | 15.00 0.5 |
| OLY | 125.96 | 39 | PKP | 34 | 14.20 0.3 |
| KOGH | 126.11 | 281 | ePKP | 34 | 15.50 0.6 |
| ELC | 126.13 | 36 | PKP | 34 | 14.30 0.1 |
| KUK | 126.21 | 281 | ePKP | 34 | 15.50 0.5 |
| CBM | 126.62 | 13 | PKP | 34 | 14.10 -0.7 |
| PTN | 126.89 | 19 | PKP | 34 | 15.20 -0.2 |
| RSNY | 127.06 | 19 | PKP | 34 | 15.60 -0.1 |
| MIM | 128.00 | 14 | PKP | 34 | 15.60 -1.8 |
| PWLA | 128.39 | 37 | PKP | 34 | 18.70 0.2 |
| GBTN | 130.12 | 33 | PKP | 34 | 22.80 1.0 |
| TKL | 130.36 | 33 | PKP | 34 | 23.00 0.7 |
| KIC | 130.44 | 283 | PKP | 34 | 23.30 0.3 |
| | 0.8s | 50.00nm | | | |
| NAV | 130.62 | 29 | PKP | 34 | 24.00 1.2 |
| TIC | 130.65 | 283 | PKP | 34 | 23.44 0.0 |
| | 0.7s | 23.00nm | | | |
| LIC | 130.75 | 283 | PKP | 34 | 23.84 0.2 |
| SAN | 147.29 | 152 | ePKP | 34 | 56.50 3.6X |
| PEL | 147.53 | 152 | iPKPc | 34 | 55.10 1.7 |
| ITA | 160.90 | 204 | ePKP | 35 | 17.50 5.6X |
| | | e | 35 | 56.40 | |
| CNCB | 161.26 | 130 | PKPc | 35 | 15.00 2.3 |
| LPB | 161.33 | 129 | PKP | 35 | 16.00 3.4X |
| ZOBO | 161.47 | 128 | PKP | 35 | 15.20 2.3 |
| | 1.1s | 14.50nm | | | |
| Z | 22s | 0.13um | | | |
| | | LR | 42 | 48.00 | |
| S.D. = 1.0 on 243 of 259 obs. | | | | | |

* FEB 13, 1989 12h 58m 18.73± 1.30s
 26.199 S ± 13.3km 179.457 E ± 6.3km
 DEPTH = 532.0 ± 18.6 km
 4.7mb (17 obs.)
 SOUTH OF FIJI ISLANDS (171)

| | | | | | | |
|------|--------|----------|-------|-------|-------|-------|
| KRP | 12.15 | 195 | P | 01 | 02.00 | 2.6 |
| DZM | 12.57 | 286 | iPd | 01 | 04.20 | 0.3 |
| BRS | 23.83 | 261 | Pc | 02 | 52.20 | 0.6 |
| RMQ | 27.49 | 263 | iPc | 03 | 25.20 | 1.3 |
| | 0.7s | 121.00nm | | | 5.6mb | |
| CAN | 27.62 | 243 | eP | 03 | 25.80 | 0.8 |
| BWA | 27.94 | 245 | eP | 03 | 26.10 | -1.7 |
| TBI | 28.33 | 91 | iP | 03 | 31.00 | -0.2 |
| | 0.8s | 40.00nm | | | 5.1mb | |
| AFR | 29.76 | 79 | iP | 03 | 42.80 | -0.8 |
| | 0.8s | 20.00nm | | | 4.8mb | |
| CMS | 29.85 | 252 | iPd | 03 | 45.50 | 1.2 |
| TOO | 30.83 | 240 | eP | 03 | 53.00 | 0.3 |
| CTA | 31.07 | 274 | iPd | 03 | 54.90 | 0.1 |
| | 0.7s | 109.59nm | | | 5.6mb | |
| | | iScP | 09 | 32.80 | | |
| | | i | 11 | 18.00 | | |
| PMO | 32.43 | 76 | iP | 04 | 05.80 | -0.5 |
| | 0.8s | 10.00nm | | | 4.5mb | |
| VAH | 32.57 | 77 | iP | 04 | 06.90 | -0.5 |
| | 0.8s | 15.00nm | | | 4.6mb | |
| TPT | 32.69 | 77 | iP | 04 | 08.00 | -0.4 |
| | 0.8s | 20.00nm | | | 4.8mb | |
| RUV | 32.81 | 77 | iP | 04 | 09.00 | -0.4 |
| | 0.8s | 20.00nm | | | 4.8mb | |
| PMG | 34.85 | 293 | iPc | 04 | 26.50 | -0.1 |
| QIS | 36.91 | 270 | iPd | 04 | 43.20 | -0.3 |
| | 0.3s | 22.00nm | | | 5.2mb | |
| ASPA | 41.23 | 263 | iPc | 05 | 17.90 | -0.7 |
| | 1.4s | 115.00nm | | | 5.2mb | |
| | | ePP | 06 | 49.50 | | |
| | | eS | 10 | 53.90 | | |
| WB2 | 41.80 | 269 | iPd | 05 | 22.50 | -0.7 |
| | | eS | 11 | 00.50 | | |
| WB5 | 41.81 | 269 | iPd | 05 | 22.50 | -0.7 |
| | | eS | 11 | 00.50 | | |
| WRA | 41.81 | 269 | Pd | 05 | 21.80 | -1.4 |
| | 0.6s | 30.30nm | | | 5.0mb | |
| WARB | 47.11 | 258 | eP | 05 | 55.50 | -8.8X |
| | 0.2s | 3.00nm | | | 4.5mb | |
| MTN | 47.19 | 277 | eP | 06 | 04.00 | -1.0 |
| KNA | 48.20 | 272 | eP | 06 | 12.00 | -0.7 |
| COOL | 50.95 | 250 | eP | 06 | 31.50 | -1.4 |
| | 0.3s | 3.00nm | | | 4.2mb | |
| KLB | 53.67 | 249 | iPd | 06 | 51.30 | -1.2 |
| | 0.6s | 9.00nm | | | 4.3mb | |
| MBL | 54.43 | 262 | iPd | 06 | 56.70 | -1.3 |
| | 0.4s | 5.00nm | | | 4.2mb | |
| BAL | 54.75 | 250 | eP | 06 | 58.00 | -2.1 |
| MUN | 54.89 | 248 | eP | 07 | 00.00 | -1.0 |
| SPA | 63.95 | 180 | e(P) | 08 | 02.20 | 1.1 |
| | 1.0s | 10.00nm | | | 4.3mb | |
| MAT | 73.52 | 326 | iPc | 08 | 58.40 | -0.1 |
| | 1.1s | 35.44nm | | | 4.8mb | |
| MDJ | 83.90 | 327 | eP | 09 | 54.20 | 1.1 |
| WHN | 84.02 | 308 | eP | 09 | 54.50 | 0.5 |
| CN2 | 85.44 | 324 | Pd | 10 | 01.20 | 0.5 |
| BJ1 | 88.35 | 317 | eP | 10 | 16.00 | 1.5 |
| XAN | 89.77 | 308 | iPc | 10 | 22.80 | 1.5 |
| CHG | 90.03 | 291 | eP | 10 | 25.10 | 2.4 |
| CD2 | 91.93 | 304 | eP | 10 | 33.50 | 2.2 |
| GKN | 105.77 | 294 | PKP | 15 | 59.00 | 15.5X |
| SUF | 139.43 | 341 | iPKP | 16 | 38.80 | -7.4X |
| | 0.5s | 2.50nm | | | | |
| NUR | 141.61 | 340 | iPKP | 16 | 45.50 | -4.6X |
| NB2 | 144.26 | 350 | PKP | 16 | 54.00 | -0.7 |
| | 0.7s | 24.00nm | | | | |
| HFS | 144.69 | 348 | ePKP | 16 | 55.10 | -0.3 |
| | 0.9s | 27.50nm | | | | |
| MLR | 151.37 | 319 | ePKPc | 17 | 14.00 | 7.5X |
| BNG | 151.67 | 223 | iPKPc | 17 | 15.30 | 7.6X |
| | 0.4s | 8.00nm | | | | |
| KSP | 152.22 | 337 | iPKP | 17 | 16.10 | 8.7X |
| CLL | 152.88 | 341 | iPKP | 17 | 17.30 | 9.0X |
| | 0.8s | 9.00nm | | | | |
| | | i | 17 | 30.60 | | |
| BRG | 152.98 | 340 | iPKP | 17 | 17.60 | 9.2X |
| | | e | 17 | 36.60 | | |
| KHC | 154.61 | 338 | ePKP | 17 | 21.50 | 10.8X |
| | | e | 17 | 39.00 | | |
| BNI | 160.31 | 345 | PKPc | 17 | 33.50 | 15.7X |
| | | eSn | 17 | 55.00 | | |
| CKI | 160.46 | 341 | PKP | 17 | 36.00 | 18.3X |
| | | eSn | 18 | 06.00 | | |
| DOI | 160.68 | 343 | PKP | 17 | 28.70 | 10.6X |
| | | eSn | 17 | 51.30 | | |
| FOUF | 160.78 | 344 | PKP | 17 | 26.00 | 8.0X |

| | | | | | |
|-------------------------------------|------|-----|------|----------|--------|
| (Sg) 17 44.85 | | | | | |
| S.D. = 1.2 on 39 of 53 obs. | | | | | |
| FEB 13, 1989 13h 16m 57.96± 0.90s | | | | | |
| 43.412 N ± 7.2km 5.464 E ± 6.4km | | | | | |
| DEPTH = 10.0km (geophysicist) | | | | | |
| NEAR SOUTH COAST OF FRANCE (379) | | | | | |
| MD 2.8 (STR). | | | | | |
| GELF | 0.04 | 223 | Pg | 17 00.17 | 0.1 |
| PUYF | 0.21 | 55 | Pg | 17 02.07 | -0.5 |
| TREF | 0.22 | 345 | Pg | 17 02.17 | -0.6 |
| PRAF | 0.45 | 331 | Pg | 17 07.10 | 0.0 |
| VILF | 0.48 | 22 | Pg | 17 07.89 | 0.2 |
| TAVF | 0.48 | 64 | Pg | 17 07.52 | -0.2 |
| GANF | 0.67 | 29 | Pg | 17 12.08 | 0.8 |
| S.D. = 0.6 on 7 of 7 obs. | | | | | |
| FEB 13, 1989 14h 04m 58.95± 0.75s | | | | | |
| 43.144 N ± 7.0km 26.752 E ± 9.3km | | | | | |
| DEPTH = 10.0km (geophysicist) | | | | | |
| BULGARIA (359) | | | | | |
| DMK | 1.52 | 150 | ePn | 05 26.00 | -0.1 |
| TLB | 1.72 | 32 | iPd | 05 29.00 | 0.0 |
| ISR | 2.00 | 356 | ePd | 05 33.00 | -0.2 |
| CFR | 2.28 | 26 | ePd | 05 37.50 | 0.4 |
| MLR | 2.42 | 346 | ePc | 05 39.00 | -0.3 |
| VTS | 2.66 | 259 | eP | 05 43.00 | 0.2 |
| BZS | 4.43 | 306 | ePd | 06 15.50 | 7.8X |
| S.D. = 0.3 on 6 of 7 obs. | | | | | |
| FEB 13, 1989 14h 05m 44.46± 0.88s | | | | | |
| 38.331 N ± 8.5km 21.879 E ± 8.5km | | | | | |
| DEPTH = 10.0km (geophysicist) | | | | | |
| GREECE (364) | | | | | |
| ML 3.1 (ATH). | | | | | |
| VLS | 1.03 | 262 | ePg | 06 02.50 | -1.4 |
| | | | eSg | 06 18.00 | |
| NEO | 1.43 | 47 | ePg | 06 10.00 | -0.5 |
| ATH | 1.49 | 103 | ePg | 06 11.90 | 0.6 |
| | | | eSb | 06 31.50 | |
| KZN | 1.97 | 358 | ePn | 06 18.30 | -0.1 |
| LSK | 2.07 | 332 | iPnc | 06 22.20 | 2.5 |
| PLG | 2.37 | 30 | ePn | 06 22.30 | -1.8 |
| TPE | 2.44 | 324 | ePn | 06 24.50 | -0.4 |
| BERA | 2.80 | 328 | ePn | 06 34.70 | 4.6X |
| OHR | 2.90 | 344 | ePn | 06 33.20 | 1.7 |
| VAY | 3.03 | 10 | ePn | 06 33.40 | 0.1 |
| TIR | 3.39 | 333 | ePn | 06 48.20 | 9.8X |
| VAM | 3.46 | 147 | ePn | 06 40.00 | 0.5 |
| PHP | 3.53 | 342 | ePn | 06 48.80 | 8.4X |
| SKO | 3.65 | 355 | ePn | 06 41.00 | -1.2 |
| BZS | 7.28 | 359 | ePc | 08 00.00 | 26.6X |
| S.D. = 1.4 on 11 of 15 obs. | | | | | |
| FEB 13, 1989 14h 09m 10.91± 0.83s | | | | | |
| 30.528 S ± 8.0km 116.866 E ± 7.8km | | | | | |
| DEPTH = 10.0km (geophysicist) | | | | | |
| WESTERN AUSTRALIA (590) | | | | | |
| BAL | 0.16 | 240 | iPd | 09 14.40 | -0.2 |
| | | | iS | 09 15.40 | |
| WA4 | 0.32 | 104 | iP | 09 18.80 | 1.3 |
| | | | eS | 09 22.00 | |
| KLB | 1.31 | 144 | iPc | 09 36.60 | 1.5 |
| | | | iS | 09 53.50 | |
| MRWA | 1.51 | 330 | Pd | 09 38.60 | 0.6 |
| | | | eS | 09 57.00 | |
| MUN | 1.55 | 201 | iPc | 09 38.80 | 0.2 |
| | | | iS | 09 59.20 | |
| NWAO | 2.41 | 173 | eP | 09 50.00 | -1.0 |
| | | | eS | 10 25.20 | |
| COOL | 3.70 | 97 | eP | 10 07.00 | -2.4 |
| | | | iS | 10 50.70 | |
| MEKA | 4.17 | 21 | eP | 10 16.00 | 0.1 |
| | | | eS | 11 02.50 | |
| WARB | 9.64 | 66 | eP | 11 21.00 | -11.7X |
| | | | eS | 13 04.00 | |
| S.D. = 1.5 on 8 of 9 obs. | | | | | |
| FEB 13, 1989 14h 17m 15.72± 0.35s | | | | | |
| 57.914 S ± 9.7km 25.714 W ± 8.4km | | | | | |
| DEPTH = 33.0km (normol) | | | | | |
| 5.2mb (10 obs.) | | | | | |
| SOUTH SANDWICH ISLANDS REGION (153) | | | | | |

BMA 37.63 331 iPc 24 30.50 1.4
 ITA 38.07 331 eP 24 33.70 0.6
 VAO 38.10 327 eP 24 34.20 1.1
 MAW 38.17 142 eP 24 35.00 1.9
 CER 38.86 71 iPd 24 49.00 9.7X
 0.6s 10.71nm 4.8mb
 ITB1 39.03 316 e(P) 24 39.30 -1.4
 GRM 42.64 78 eP 25 11.00 0.6
 0.9s 25.21nm 4.9mb
 FRS 44.82 74 iPc 25 28.70 0.7
 0.8s 18.66nm 5.0mb
 CGY 48.12 72 iPc 25 51.50 -2.6
 0.7s 23.97nm 5.3mb
 PRY 48.21 73 iPd 25 55.50 0.5
 1.1s 33.78nm 5.3mb
 KSR 48.78 72 eP 25 59.00 -0.5
 BPI 49.11 73 eP 26 01.50 -0.5
 0.7s 34.25nm 5.5mb
 SLR 49.60 73 iPc 26 05.00 -0.7
 1.3s 67.31nm 5.5mb
 CNCB 51.58 305 eP 26 21.00 -0.4
 LPB 51.88 305 eP 26 12.00 -11.4X
 ZOBO 52.12 305 P 26 23.80 -1.7
 BUL 54.41 70 iPc 26 40.90 -0.9
 LSZ 58.34 66 iPc 27 10.50 0.6
 KMZ 58.77 63 iP 27 13.80 0.8
 PTZ 60.77 69 iPd 27 26.40 -0.2
 AVY 65.38 86 eP 27 58.70 1.5
 BNG 71.57 47 iPc 28 35.00 -0.4
 0.2s 16.00nm 5.7mb
 i 28 49.40

MSZ 77.15 190 eP 29 07.00 -0.1
 TAU 79.37 175 eP 29 19.00 -0.3
 COOL 84.92 148 eP 29 48.00 -0.3
 87.27 152 eP 30 00.00 0.1
 0.3s 2.00nm 4.8mb
 FORR 88.88 158 eP 30 08.00 0.4
 WRA 100.68 161 Pdifc31 01.10 -0.6
 0.4s 0.40nm 4.3mb
 WB2 100.68 161 ePdifc31 01.00 -0.7
 WB5 100.75 161 ePdifc31 01.00 -1.0
 DMN 123.93 91 PKP 36 10.80 -1.1
 GKN 123.99 91 PKP 36 10.50 -1.3
 PKI 124.06 92 PKP 36 10.90 -1.3
 0.5s 3.00nm
 KKN 124.17 91 PKP 36 11.10 -1.2
 0.5s 3.00nm
 GUN 124.58 92 PKP 36 12.20 -1.0
 0.5s 5.00nm
 LRM 125.68 301 ePKP 36 15.10 0.4
 SSE 144.90 125 PKPc 36 49.20 -1.1
 1.0s 15.00nm
 i 37 22.00
 MBC 146.01 335 ePKP 36 51.00 0.1
 0.4s 10.00nm
 TIY 146.14 108 ePKP 36 52.50 0.1
 BTO 147.06 102 PKP 36 55.60 1.8
 TIA 147.29 115 PKPc 36 55.80 1.7
 INK 147.75 318 ePKP 36 56.00 2.2
 HHC 148.04 103 ePKP 36 58.00 2.6
 BJI 149.80 110 ePKP 37 02.00 4.1X
 S.D. = 1.2 on 41 of 44 obs.

* FEB 13, 1989 14h 23m 02.38±1.11s
 27.536 N ±25.1km 54.351 E ±12.5km
 DEPTH = 33.0km (normal)
 4.5mb (6 obs.)
 SOUTHERN IRAN (353)

MHI 9.77 25 eP 25 36.00 12.3X
 eS 28 48.00
 QUE 11.36 74 eP 25 45.50 -0.1
 NDI 20.20 81 eP 27 37.00 -0.2
 BBTk 21.69 310 eP 27 53.50 1.0
 HYB 24.48 109 eP 28 21.50 1.7
 GBA 25.61 118 P 28 28.50 -2.0
 0.7s 2.00nm 3.8mb
 GKN 26.77 82 P 28 41.80 0.4
 0.8s 12.00nm 4.6mb
 DMN 27.23 83 P 28 46.20 0.5
 KKN 27.36 82 P 28 45.20 -1.6
 0.8s 16.00nm 4.7mb
 PKI 27.50 83 P 28 48.40 0.2
 1.0s 15.00nm 4.6mb
 GUN 27.87 82 P 28 52.00 0.4
 1.0s 54.00nm 5.2mb
 KHC 37.96 316 P 30 18.60 0.0

CHG 41.72 92 eP 30 50.50 0.4
 HFS 42.67 331 eP 30 54.80 -2.5
 0.4s 0.90nm 3.9mb
 MBC 76.40 358 eP 34 50.00 0.4
 FRB 78.62 338 eP 35 02.00 0.0
 YKA 89.85 355 P 36 00.20 1.3
 S.D. = 1.2 on 16 of 17 obs.

FEB 13, 1989 14h 51m 24.65±0.14s
 57.449 N ±4.0km 33.177 W ±2.1km
 DEPTH = 10.0km (geophysicist)
 5.2mb (43 obs.) 5.2Msz (12 obs.)
 NORTH ATLANTIC OCEAN (402)

Ms 5.4 (BRK).
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 8S, 16C
 Centroid Location:
 Origin Time 14:51:25.9 0.6
 Lat 56.85N 0.15 Lon 33.01W 0.07
 Dep 15.0 FIX Half-duration 1.7
 Moment Tensor: Scale 10**17 Nm
 Mrr=-1.06 0.05 Mtt=-0.21 0.06
 Mff= 1.27 0.05 Mrt= 0.13 0.14
 Mrf=-0.01 0.25 Mtf= 0.32 0.06
 Principal Axes:
 T Vol= 1.33 Plg= 0 Azm=282
 N -0.25 9 12
 P -1.08 81 189
 Best Double Couple: Mo=1.2*10**17
 NP1:Strike= 2 Dip=45 Slip=-103
 NP2: 201 46 -77

REY 8.67 35 iP 53 47.40 14.4X
 AKU 10.92 35 iP 54 07.60 3.8X
 1.4s 241.86nm 6.4mb X
 GDH 14.84 331 eP 54 54.00 -1.9
 i 55 04.00
 e 57 46.00
 STJ 15.42 238 eP 55 03.00 -0.6
 FRB 18.28 305 eP 55 40.00 0.5
 SCH 18.80 276 ePc 55 45.80 -0.3
 1.2s 93.00nm 4.9mb
 DAG 20.07 10 eP 56 00.00 -0.4
 FLN 21.28 100 iPc 56 11.70 -1.4
 STS 21.31 123 eP 56 13.00 -0.4
 GRR 21.31 101 iPc 56 11.90 -1.5
 1.5s 344.70nm 5.5mb
 LPF 21.43 102 eP 56 13.10 -1.5
 EMON 21.44 120 eP 56 14.00 -0.9
 LDF 21.57 100 iPc 56 14.80 -1.3
 1.8s 569.60nm 5.7mb
 ERUA 22.34 121 eP 56 23.00 -0.8
 PTO 22.68 125 eP 56 14.50 -12.6X
 MFF 22.81 104 eP 56 27.40 -0.9
 1.5s 135.80nm 5.2mb
 MUD 22.85 74 eP 56 31.00 2.4
 0.9s 30.00nm 4.8mb
 SNF 22.86 92 P 56 28.70 -0.1
 NRA0 22.86 63 P 56 30.80 2.0
 WIT 23.00 84 eP 56 32.00 1.9
 DOU 23.25 92 P 56 32.30 -0.3
 WTS 23.47 86 eP 56 35.50 0.8
 1.3s 83.00nm 5.1mb
 CBM 23.60 259 P 56 38.20 2.1
 MEM 23.74 90 P 56 37.20 -0.1
 LSF 23.91 103 iPc 56 39.40 0.3
 TCF 24.25 102 eP 56 42.50 0.1
 1.3s 90.20nm 5.2mb
 WLF 24.33 92 P 56 43.40 0.3
 LFF 24.38 106 eP 56 44.10 0.5
 1.7s 176.40nm 5.4mb
 BGF 24.41 101 eP 56 43.80 -0.2
 SSF 24.45 99 iPc 56 44.20 -0.1
 1.6s 120.60nm 5.3mb
 MAF 24.48 102 eP 56 44.50 -0.1
 LOR 24.51 99 iPc 56 44.90 0.0
 RJF 24.53 105 eP 56 45.30 0.2
 AVF 24.53 100 iPc 56 44.80 -0.3
 1.5s 96.10nm 5.2mb
 EPLA 24.67 123 eP 56 46.80 0.2
 LBF 24.75 99 iPc 56 46.70 -0.5
 1.1s 53.70nm 5.1mb
 LPO 24.78 106 eP 56 46.70 -0.9
 1.6s 136.80nm 5.4mb
 SMF 24.89 100 iPc 56 47.80 -0.7
 1.2s 96.30nm 5.4mb

CAF 25.08 105 eP 56 50.40 0.0
 GUD 25.10 120 eP 56 51.00 0.2
 HAU 25.39 95 iPc 56 53.20 -0.2
 1.5s 156.60nm 5.5mb
 EPF 25.51 110 eP 56 53.10 -1.4
 CDF 25.65 93 P 56 55.34 -0.5
 BSF 25.74 95 P 56 55.48 -1.2
 TOL 25.75 120 eP 56 57.50 0.7
 ETOR 25.97 116 eP 56 59.30 0.4
 UPP 26.01 63 iP 56 59.50 0.6
 1.3s 300.00nm 5.8mb
 ALE 26.37 352 eP 57 02.00 -0.1
 1.6s 72.00nm 5.1mb
 EVAL 26.42 127 eP 57 05.70 2.7
 MOX 26.75 85 ePc 57 05.00 -0.9
 1.7s 79.00nm 5.1mb
 Z 18s 5.10um 5.1Msz
 N 20s 2.70um
 E 18s 3.40um
 LO 07 00.00
 LR 07 20.00
 EHOR 26.88 125 eP 57 06.70 -0.5
 GRF 27.06 87 eP 57 08.60 -0.1
 1.5s 90.00nm 5.2mb
 Z 22s 2.30um 4.7Msz
 CLL 27.14 83 iPc 57 08.30 -1.1
 1.8s 43.00nm 4.9mb
 Z 18s 7.00um 5.3Msz
 EROO 27.17 113 eP 57 13.00 3.2X
 LPG 27.18 99 eP 57 09.50 -0.7
 LSD 27.42 98 P 57 13.01 0.7
 BNI 27.43 100 P 57 12.50 0.2
 ECHE 27.44 117 eP 57 12.80 0.4
 RRL 27.57 100 P 57 13.01 -0.7
 EPRU 27.60 126 eP 57 14.50 0.8
 RSP 27.67 99 P 57 14.14 -0.3
 ORX 27.75 97 P 57 15.78 0.6
 ORO 27.75 97 P 57 16.10 0.9
 AAPN 27.81 124 eP 57 16.50 0.8
 BRG 27.88 83 iPd 57 15.80 -0.3
 1.4s 24.00nm 4.8mb
 Z 20s 7.50um 5.3Msz
 N 20s 6.00um
 E 20s 5.00um
 e 57 54.50
 ASMO 27.93 123 eP 57 17.50 0.6
 AFC 28.11 123 eP 57 19.00 0.5
 CRT 28.14 123 eP 57 21.00 2.3
 ATEJ 28.18 124 eP 57 20.20 1.0
 APHE 28.29 124 eP 57 22.50 2.3
 MDI 28.58 95 P 57 22.00 -0.5
 KHC 28.64 87 eP 57 19.90 -3.2X
 e 57 23.30
 PRU 28.68 84 eP 57 20.00 -3.4X
 Z 18s 5.80um 5.2Msz
 E 18s 5.90um
 e 57 39.00
 KSP 29.15 82 ePc 57 26.60 -1.0
 KBA 29.73 90 eP 57 31.00 -2.1
 1.5s 42.90nm 5.0mb
 i 57 41.70
 e 58 14.00
 RBL 30.25 91 P 57 40.00 2.5
 IFR 30.58 129 iP 57 39.50 -1.1
 PGD 30.91 96 Pd 57 43.70 0.2
 SFI 30.95 96 Pd 57 44.10 0.5
 ZST 31.09 85 eP 57 43.40 -1.4
 Z 18s 11.50um 5.6Msz
 KRA 31.53 80 eP 57 47.70 -1.0
 1.0s 37.00nm 5.2mb
 Z 16s 3.60um 5.1MszX
 N 14s 2.70um
 e 57 51.70
 ASS 31.96 97 P 57 51.00 -1.6
 SRO 31.97 85 eP 57 51.90 -0.6
 TIO 32.00 135 iP 57 53.00 -0.1
 MBC 34.37 335 eP 58 13.00 -0.1
 0.9s 23.00nm 5.1mb
 RSON 34.98 286 P 58 17.30 -1.3
 1.3s 44.35nm 5.2mb
 BZS 35.11 86 iPd 58 20.00 0.2
 e 21 43.00
 FFC 37.00 296 ePd 58 35.40 -0.2
 1.8s 82.00nm 5.2mb
 SKO 37.44 90 iPc 58 39.00 -0.5
 1.5s 110.00nm 5.4mb
 Z 16s 2.60um 5.1MszX

13d 14h

| | | | | | | | | | | | | | | | |
|-------------------------------------|--|--|--|---------------------------------------|--|--|--|--------------------------------|--|--|--|------------------------------------|--|--|--|
| N 16s 2.34um | | | | Z 20s 2.00um | | | | 5.2MsZ | | | | MIN 2.66 90 ePc 59 00.90 -2.7 | | | |
| E 16s 2.52um | | | | N 20s 2.20um | | | | ORV 2.88 106 eP 59 04.10 -2.5 | | | | | | | |
| | | | | E 20s 1.00um | | | | | | | | eS 59 37.20 | | | |
| | | | | | | | | | | | | BRK 3.35 138 eP 59 10.20 -3.0 | | | |
| MLR 37.52 82 eP 58 39.00 -1.3 | | | | SBB 58.79 286 eP 01 25.00 -0.2 | | | | BKS 3.36 138 iPc 59 10.40 -2.9 | | | | | | | |
| CLI 37.56 80 ePd 58 40.00 -0.4 | | | | LLA 58.90 290 e(P) 01 19.00 -6.8X | | | | PCC 3.58 143 eP 59 13.10 -3.4 | | | | | | | |
| | | | | | | | | MHC 4.07 138 ePc 59 20.70 -2.8 | | | | | | | |
| OHR 37.69 92 iP 58 41.80 0.1 | | | | PEC 59.07 285 P 01 26.90 -0.2 | | | | ARN 4.12 137 eP 59 20.50 -3.7 | | | | | | | |
| VRI 37.70 81 ePd 58 42.00 0.4 | | | | RVR 59.10 286 eP 01 27.00 -0.2 | | | | GCC 4.14 143 eP 59 20.90 -3.5 | | | | | | | |
| ISR 38.07 82 eP 58 37.50 -7.3X | | | | PRI 59.13 290 e(P) 01 21.20 -6.3X | | | | CMB 4.35 121 iPc 59 26.50 -1.0 | | | | | | | |
| | | | | PLM 59.33 285 eP 01 30.00 0.9 | | | | SAO 4.62 141 eP 59 26.80 -4.4 | | | | | | | |
| VAY 38.51 90 eP 58 48.40 0.0 | | | | BAR 59.75 284 eP 01 32.00 0.2 | | | | FRI 5.41 127 ePc 59 40.80 -1.7 | | | | | | | |
| YKA 38.51 312 P 58 48.50 0.3 | | | | OXX 61.58 257 (P) 01 44.50 -0.1 | | | | KVN 5.55 102 eP 59 40.50 -4.2 | | | | | | | |
| PVL 38.70 86 iPd 58 49.00 -1.0 | | | | MHI 61.61 67 iPc 01 45.00 0.5 | | | | FFC 21.04 39 eP 03 04.00 -2.0 | | | | | | | |
| KZN 38.78 92 eP 58 51.10 0.2 | | | | | | | | | | | | 0.7s 7.00nm 4.1mb X | | | |
| CFR 38.90 81 eP 58 50.00 -1.6 | | | | BNG 66.51 121 iPc 02 15.00 -1.6 | | | | | | | | 17 obs. associated | | | |
| | | | | 0.8s 14.00nm 5.2mb | | | | | | | | | | | |
| MMB 38.95 89 iP 58 52.00 -0.1 | | | | KSH 66.73 53 eP 02 17.90 0.0 | | | | | | | | FEB 13, 1989 15h 14m 47.68± 0.16s | | | |
| RZN 39.41 88 iP 58 55.00 -1.2 | | | | WMQ 67.69 42 eP 02 24.00 0.2 | | | | | | | | 57.443 N ± 4.7km 33.251 W ± 2.5km | | | |
| PLG 39.64 90 eP 58 58.00 0.1 | | | | GTA 75.74 36 Pd 03 11.40 -0.5 | | | | | | | | DEPTH = 10.0km (geophysicist) | | | |
| VLS 39.68 95 eP 58 59.00 0.8 | | | | Z 16s 1.60um 5.4MsZ X | | | | | | | | 5.2mb (50 obs.) 5.2MsZ (11 obs.) | | | |
| RDO 40.23 88 eP 59 03.00 0.3 | | | | E 15s 1.00um | | | | | | | | NORTH ATLANTIC OCEAN (402) | | | |
| NEO 40.28 92 eP 59 03.30 0.1 | | | | NDI 76.34 58 eP 03 16.00 0.7 | | | | | | | | CENTROID, MOMENT TENSOR (HRV) | | | |
| FVM 41.70 268 P 59 15.30 0.5 | | | | MDJ 77.29 13 eP 03 20.00 -0.3 | | | | | | | | Data Used: GDSN | | | |
| INK 41.85 327 eP 59 14.00 -1.6 | | | | Z 20s 1.30um 5.2MsZ | | | | | | | | L.P.B.: 10S, 22C | | | |
| PWL 42.65 262 P 59 23.10 0.5 | | | | BTO 77.54 28 P 03 23.00 1.1 | | | | | | | | Centroid Location: | | | |
| IZM 43.12 89 eP 59 26.00 -0.5 | | | | CN2 77.54 16 Pd 03 21.20 -0.5 | | | | | | | | Origin Time 15:14:54.0 0.5 | | | |
| EDM 43.31 300 ePd 59 27.80 -0.1 | | | | HHC 77.69 27 P 03 23.80 1.1 | | | | | | | | Lat 57.82N 0.07 Lon 33.28W 0.08 | | | |
| SES 44.02 296 eP 59 35.00 1.4 | | | | ZOBO 78.96 214 P 03 30.20 -0.3 | | | | | | | | Dep 15.0 FIX Half-duration 2.3 | | | |
| OLY 44.09 266 P 59 34.80 0.5 | | | | 1.2s 6.08nm 4.5mb | | | | | | | | Moment Tensor: Scale 10**17 Nm | | | |
| BBTK 45.05 83 iPc 59 43.00 0.9 | | | | Z 22s 0.37um 4.7MsZ | | | | | | | | Mrr=-2.44 0.09 Mtt= 0.12 0.10 | | | |
| LNO 46.12 270 eP 59 50.30 -0.1 | | | | | | | | | | | | Mff= 2.31 0.11 Mrt= 0.33 0.28 | | | |
| SIO 46.52 270 eP 59 53.10 -0.6 | | | | SNY 79.18 17 eP 03 30.40 -0.3 | | | | | | | | Mrf= 0.63 0.42 Mtf= 1.06 0.10 | | | |
| LRM 47.80 292 eP 00 04.40 0.4 | | | | Z 18s 1.40um 5.3MsZ | | | | | | | | Principal Axes: | | | |
| FBA 48.33 329 eP 00 08.00 0.5 | | | | N 16s 1.10um | | | | | | | | T Vol= 2.84 Plg= 8 Azm=292 | | | |
| GLD 48.37 281 P 00 09.20 0.8 | | | | E 16s 0.80um | | | | | | | | N -0.30 2 22 | | | |
| | | | | LPB 79.21 214 (P) 03 39.00 7.4X | | | | | | | | P -2.53 82 126 | | | |
| BW06 48.47 287 P 00 07.90 -1.3 | | | | CNCB 79.43 214 P 03 33.00 0.0 | | | | | | | | Best Double Couple:Mo=2.7*10**17 | | | |
| 1.8s 82.47nm 5.5mb | | | | CCH 79.43 212 eP 03 33.70 1.0 | | | | | | | | NP1:Strike= 20 Dip=37 Slip= -93 | | | |
| MEO 48.48 271 iP 00 09.00 -0.1 | | | | BJI 79.51 23 eP 03 32.50 -0.1 | | | | | | | | NP2: 204 53 -88 | | | |
| 1.8s 226.60nm 5.9mb | | | | LZH 80.04 34 eP 03 34.50 -1.2 | | | | | | | | | | | |
| GOL 48.49 281 P 00 09.50 0.1 | | | | 2.5s 118.00nm 5.4mb | | | | | | | | REY 8.70 35 iP 17 03.00 6.6X | | | |
| PNT 48.85 300 eP 00 12.00 0.2 | | | | ITA 80.10 191 eP 03 36.20 0.0 | | | | | | | | AKU 10.94 35 iP 17 31.90 4.7X | | | |
| 0.8s 18.00nm 5.2mb | | | | GKN 80.22 53 P 03 37.30 0.5 | | | | | | | | 1.9s 989.47nm 6.8mb X | | | |
| IMA 48.99 332 eP 00 12.80 0.0 | | | | 0.8s 14.00nm 5.0mb | | | | | | | | e 21 41.00 | | | |
| 2.4s 180.60nm 5.7mb | | | | BMA 80.36 190 ePc 03 37.90 0.6 | | | | | | | | VAL 14.36 103 P 18 15.00 2.2 | | | |
| DPW 49.19 298 P 00 14.20 -0.3 | | | | KKN 80.68 52 P 03 40.10 0.8 | | | | | | | | GDH 14.82 331 iPc 18 18.00 -0.7 | | | |
| DAU 51.06 286 P 00 29.00 -0.2 | | | | 0.7s 15.00nm 5.1mb | | | | | | | | 1.4s 130.23nm 5.2mb | | | |
| PMR 51.27 327 eP 00 30.40 0.4 | | | | DMN 80.77 52 P 03 40.80 1.0 | | | | | | | | i 18 25.00 | | | |
| 1.9s 92.10nm 5.4mb | | | | GUN 80.83 52 P 03 41.20 0.9 | | | | | | | | i 21 25.00 | | | |
| Z 20s 1.00um 4.8MsZ | | | | 0.9s 25.00nm 5.2mb | | | | | | | | EKA 16.73 84 P 18 46.00 2.7 | | | |
| TTA 52.13 331 eP 00 35.90 -0.7 | | | | 1.0s 10.00nm 4.8mb | | | | | | | | 2.1s 527.80nm 5.3mb | | | |
| BMW 52.58 300 P 00 39.40 -0.9 | | | | TIA 83.40 24 Pd 03 53.00 0.0 | | | | | | | | FRB 18.25 305 eP 19 03.00 0.8 | | | |
| ALO 52.60 278 eP 00 40.50 -0.2 | | | | XAN 83.43 31 eP 03 52.70 -0.6 | | | | | | | | DAG 20.09 10 iPc 19 22.70 -0.9 | | | |
| 1.8s 69.32nm 5.3mb | | | | CD2 84.81 36 P 04 00.80 0.5 | | | | | | | | FLN 21.32 100 iPc 19 35.90 -0.6 | | | |
| Z 18s 6.27um 5.7MsZ | | | | MAT 86.09 7 (P) 04 07.00 0.4 | | | | | | | | 1.4s 291.00nm 5.5mb | | | |
| MSU 52.94 285 P 00 42.50 -0.8 | | | | HYB 86.61 63 eP 04 09.00 -0.4 | | | | | | | | STS 21.34 122 eP 19 36.20 -0.6 | | | |
| MSL 53.13 79 eP 00 46.00 1.6 | | | | SSE 89.19 22 eP 04 21.00 -0.5 | | | | | | | | GRR 21.34 101 iPc 19 36.10 -0.7 | | | |
| | | | | GBA 89.34 66 Pd 04 21.70 -0.7 | | | | | | | | 1.5s 286.20nm 5.4mb | | | |
| PRNI 53.37 90 eP 00 47.00 0.7 | | | | KMI 89.82 39 Pc 04 25.00 0.1 | | | | | | | | LPF 21.47 102 iPc 19 37.30 -0.7 | | | |
| TAB 53.54 75 eP 00 50.00 2.5 | | | | WB5 141.37 19 ePKP 10 58.00 0.8 | | | | | | | | EMON 21.48 120 eP 19 37.20 -1.0 | | | |
| MBH 53.76 90 eP 00 50.00 1.0 | | | | WB2 141.43 19 ePKP 10 58.00 0.7 | | | | | | | | LDF 21.61 100 iPc 19 39.10 -0.4 | | | |
| SLY 54.97 77 ePc 01 00.00 2.1 | | | | ASPA 144.98 21 iPKPd 11 01.80 -1.5 | | | | | | | | 1.8s 473.00nm 5.6mb | | | |
| | | | | 1.1s 43.00nm | | | | | | | | ERUA 22.37 121 eP 19 47.20 0.1 | | | |
| TIC 55.24 145 P 00 57.82 -2.2 | | | | WARB 145.61 33 ePKP 10 57.00 -7.3X | | | | | | | | NB2 22.68 62 P 19 49.20 -0.9 | | | |
| 1.1s 40.00nm 5.3mb | | | | MUN 147.01 53 ePKP 11 08.00 1.6 | | | | | | | | 1.5s 67.90nm 4.9mb | | | |
| KIC 55.59 145 P 01 04.80 2.3 | | | | COOL 148.06 45 iPc 11 11.40 3.2X | | | | | | | | PTO 22.71 125 eP 19 46.70 -3.7X | | | |
| 1.0s 16.00nm 5.0mb | | | | RMO 149.03 357 iPKPc 11 15.20 5.4X | | | | | | | | e(S) 23 34.00 | | | |
| KVN 55.59 290 P 01 02.20 -0.4 | | | | S.D. = 1.0 on 184 of 200 obs. | | | | | | | | MFF 22.84 104 iPc 19 51.60 -0.1 | | | |
| LIC 55.63 145 P 01 00.90 -1.9 | | | | | | | | | | | | 1.2s 55.90nm 5.0mb | | | |
| TNP 55.87 289 P 01 03.80 -0.9 | | | | & FEB 13, 1989 14h 58m 19.40s | | | | | | | | 22.89 74 eP 19 53.00 1.0 | | | |
| BHD 56.16 80 ePd 01 07.50 1.0 | | | | 40.400 N 125.088 W | | | | | | | | 1.0s 34.00nm 4.8mb | | | |
| MIN 56.37 293 ePc 01 07.70 -0.5 | | | | DEPTH = 7.0km | | | | | | | | NRA0 22.90 63 P 19 54.90 2.7 | | | |
| | | | | OFF COAST OF NORTHERN CALIFORNIA(34) | | | | | | | | SNF 22.90 91 P 19 57.00 4.8X | | | |
| WDC 56.65 294 e(P) 01 01.30 -8.7X | | | | <BRK>. ML 3.4 (BRK). | | | | | | | | WIT 23.04 84 eP 20 00.00 6.4X | | | |
| | | | | | | | | | | | | DOU 23.29 92 Pc 19 57.60 1.6 | | | |
| KUK 57.19 140 eP 01 12.00 -2.0 | | | | FHC 0.93 64 iPc 58 36.70 -0.8 | | | | | | | | e 45 12.00 | | | |
| KOGH 57.33 140 eP 01 13.00 -2.0 | | | | | | | | | | | | WTS 23.51 86 eP 20 00.00 1.9 | | | |
| CMB 57.52 291 e(P) 01 15.90 -0.3 | | | | | | | | | | | | ENN 23.65 89 eP 20 01.00 1.5 | | | |
| SHGH 57.54 140 eP 01 20.50 4.0X | | | | | | | | | | | | 2.0s 325.00nm 5.5mb | | | |
| GSC 57.79 286 eP 01 19.00 0.8 | | | | | | | | | | | | MEM 23.78 90 P 20 01.30 0.6 | | | |
| CLC 57.80 287 eP 01 18.00 -0.2 | | | | | | | | | | | | LSF 23.95 103 iPc 20 02.80 0.3 | | | |
| FRI 57.98 290 ePc 01 19.70 0.3 | | | | | | | | | | | | TCF 24.29 102 iPc 20 05.70 -0.1 | | | |
| TPC 58.32 285 eP 01 23.00 1.1 | | | | | | | | | | | | 1.1s 51.20nm 5.1mb | | | |
| GLA 58.49 283 eP 01 23.00 -0.1 | | | | | | | | | | | | WLF 24.37 92 P 20 07.40 0.9 | | | |
| BKS 58.58 292 i(P)d 01 12.90 -10.6X | | | | | | | | | | | | LFF 24.41 106 iPc 20 07.40 0.4 | | | |

| | | | | | | | | | | | | | | |
|------|-------|----------|----------|---------|-------|--------|-----------|----------|-------|-------|---------|----------|----------|--------|
| | 1.5s | 104.40nm | 5.2mb | FFC | 36.97 | 296 eP | 21 58.50 | 0.2 | RVR | 59.06 | 286 eP | 24 50.00 | 0.0 | |
| BGF | 24.45 | 101 iPc | 20 07.00 | -0.4 | | 0.9s | 21.00nm | 4.9mb | PRI | 59.09 | 290 eP | 24 51.20 | 0.9 | |
| SSF | 24.48 | 99 iPc | 20 07.50 | -0.2 | SKO | 37.48 | 90 eP | 22 01.10 | -1.8 | PLM | 59.29 | 285 eP | 24 52.00 | 0.2 |
| | 1.2s | 57.70nm | 5.1mb | | | 8.0s | 2770.00nm | 6.1mb X | BAR | 59.72 | 284 eP | 24 55.00 | 0.4 | |
| MAF | 24.52 | 102 iPc | 20 07.80 | -0.2 | | Z 15s | 4.78um | 5.4MszX | OXX | 61.54 | 257 (P) | 25 07.50 | 0.2 | |
| | 1.5s | 179.60nm | 5.5mb | | N 18s | 4.59um | | | MHI | 61.65 | 66 eP | 25 09.00 | 1.2 | |
| LOR | 24.54 | 98 iPc | 20 08.10 | -0.2 | E 18s | 6.74um | | | BNG | 66.55 | 121 ePd | 25 37.80 | -2.0 | |
| | 1.2s | 54.70nm | 5.1mb | | | | i | 22 02.80 | | | 1.0s | 30.00nm | 5.4mb | |
| RJF | 24.57 | 105 eP | 20 08.50 | 0.0 | | | iS | 27 55.00 | | | | i | 25 40.20 | |
| AVF | 24.57 | 100 iPc | 20 08.10 | -0.4 | | | iSS | 30 42.00 | | | | i | 26 09.20 | |
| EPLA | 24.70 | 123 eP | 20 10.20 | 0.3 | | | LR | 37 54.00 | | KSH | 66.76 | 53 eP | 25 36.00 | -5.1X |
| LBF | 24.78 | 99 iPc | 20 10.20 | -0.4 | OHR | 37.73 | 92 eP | 22 05.00 | 0.0 | WMO | 67.72 | 42 P | 25 48.00 | 1.0 |
| | 1.1s | 51.20nm | 5.1mb | | VTS | 38.02 | 88 eP | 22 07.00 | -0.5 | | Z 17s | 2.00um | 5.4MszX | |
| LPO | 24.82 | 106 iPc | 20 11.00 | 0.1 | YKC | 38.44 | 312 eP | 22 09.00 | -1.6 | QUE | 70.25 | 65 eP | 26 02.00 | -0.9 |
| | 1.1s | 43.90nm | 5.0mb | | | 1.0s | 66.00nm | 5.3mb | GTA | 75.77 | 36 eP | 26 33.40 | -1.7 | |
| SMF | 24.92 | 100 iPc | 20 11.60 | -0.3 | YKA | 38.48 | 312 P | 22 10.50 | -0.5 | | Z 18s | 1.30um | 5.3Msz | |
| | 1.2s | 83.30nm | 5.3mb | | VAY | 38.55 | 90 eP | 22 11.40 | -0.3 | | E 13s | 0.90um | | |
| CAF | 25.11 | 105 iPc | 20 13.70 | -0.1 | PVL | 38.74 | 86 iPc | 22 11.00 | -2.3 | NDI | 76.38 | 58 eP | 26 39.00 | 0.4 |
| GUD | 25.13 | 119 eP | 20 14.40 | 0.2 | MMB | 38.99 | 89 iP | 22 15.00 | -0.5 | MDJ | 77.30 | 12 eP | 26 43.00 | -0.4 |
| HAU | 25.43 | 95 eP | 20 16.70 | -0.1 | RZN | 39.45 | 88 eP | 22 18.00 | -1.6 | CN2 | 77.56 | 16 P | 26 45.00 | 0.1 |
| | 1.4s | 104.50nm | 5.3mb | | INK | 41.84 | 327 eP | 22 37.00 | -1.5 | | 5.0s | 0.50nm | 2.9mb X | |
| EPF | 25.55 | 110 iPc | 20 17.20 | -0.7 | IZM | 43.16 | 89 eP | 22 49.00 | -0.8 | | Z 20s | 0.90um | 5.1Msz | |
| CDF | 25.69 | 93 iPc | 20 19.00 | -0.3 | EDM | 43.28 | 300 iPd | 22 51.30 | 0.7 | | E 14s | 0.90um | | |
| | 1.5s | 94.00nm | 5.3mb | | | 1.2s | 66.00nm | 5.3mb | | | | pP | 26 52.50 | 24kmX |
| BSF | 25.78 | 95 eP | 20 19.70 | -0.4 | SES | 43.98 | 296 eP | 22 59.00 | 2.6 | BTO | 77.57 | 28 iPc | 26 44.40 | -0.7 |
| | 1.2s | 59.50nm | 5.2mb | | BBTK | 45.09 | 83 eP | 23 06.50 | 1.0 | HHC | 77.71 | 27 P | 26 45.60 | -0.3 |
| ETOR | 26.00 | 116 eP | 20 23.30 | 1.1 | RLO | 45.48 | 270 e(P) | 23 07.30 | -1.2 | ZOBO | 78.94 | 214 P | 26 53.50 | 0.1 |
| ALE | 26.37 | 352 eP | 20 24.00 | -1.1 | LNO | 46.08 | 270 eP | 23 13.60 | 0.5 | | 1.2s | 12.84nm | 4.8mb | |
| | 1.4s | 75.00nm | 5.2mb | | VVO | 46.48 | 269 e(P) | 23 16.80 | 0.4 | LPB | 79.18 | 214 eP | 27 07.00 | 12.5X |
| MOX | 26.79 | 85 eP | 20 28.00 | -1.3 | SIO | 46.48 | 270 eP | 23 17.00 | 0.6 | SNY | 79.20 | 17 Pd | 26 54.00 | 0.1 |
| | 1.8s | 88.00nm | 5.1mb | | LRM | 47.77 | 292 eP | 23 26.30 | -0.5 | CNCB | 79.40 | 214 P | 26 56.20 | 0.3 |
| Z | 18s | 9.80um | 5.4Msz | | FBA | 48.31 | 329 eP | 23 30.00 | -0.4 | CCH | 79.41 | 212 eP | 26 51.00 | -4.6X |
| N | 16s | 5.70um | | | GLD | 48.33 | 281 P | 23 33.30 | 2.1 | BJI | 79.54 | 23 eP | 26 56.00 | 0.3 |
| E | 18s | 8.00um | | | | 1.1s | 221.79nm | 6.1mb | | Z | 18s | 0.90um | 5.2Msz | |
| | | LO | 31 00.00 | | BW06 | 48.43 | 287 P | 23 30.10 | -1.9 | LZH | 80.07 | 34 eP | 27 00.00 | 1.1 |
| | | LR | 31 00.00 | | | 1.0s | 36.56nm | 5.4mb | | | 2.5s | 0.16nm | 2.6mb X | |
| EHOR | 26.91 | 125 eP | 20 30.00 | -0.5 | MEO | 48.44 | 271 eP | 23 30.70 | -1.1 | | Z | 20s | 1.60um | 5.4Msz |
| GRF | 27.10 | 87 eP | 20 31.90 | -0.2 | | 1.0s | 79.40nm | 5.7mb | | ITA | 80.09 | 191 eP | 26 59.10 | -0.1 |
| | 1.5s | 85.00nm | 5.2mb | | GOL | 48.45 | 281 P | 23 33.30 | 1.1 | GKN | 80.26 | 52 P | 27 00.20 | 0.2 |
| Z | 21s | 5.70um | 5.1Msz | | PNT | 48.81 | 300 ePd | 23 36.00 | 1.5 | BMA | 80.35 | 190 ePd | 27 01.10 | 0.9 |
| CLL | 27.19 | 83 iPc | 20 31.80 | -1.0 | | 1.0s | 58.00nm | 5.6mb | KKN | 80.72 | 52 P | 27 03.00 | 0.5 | |
| | 1.9s | 48.00nm | 4.9mb | | IMA | 48.98 | 332 eP | 23 34.80 | -0.9 | | 0.8s | 20.00nm | 5.2mb | |
| Z | 17s | 11.00um | 5.5MszX | | | 1.2s | 39.10nm | 5.3mb | DMN | 80.80 | 52 P | 27 03.60 | 0.6 | |
| LPG | 27.22 | 99 iPc | 20 33.60 | 0.1 | BHL | 51.03 | 86 P | 23 50.00 | -1.7 | | 0.9s | 26.00nm | 5.2mb | |
| | 1.6s | 70.80nm | 5.1mb | | | | S | 31 12.00 | GUN | 80.87 | 52 P | 27 03.40 | -0.1 | |
| EVIA | 27.50 | 120 eP | 20 36.00 | 0.0 | PMR | 51.25 | 327 eP | 23 52.70 | -0.2 | | 0.8s | 25.00nm | 5.3mb | |
| ORO | 27.79 | 97 P | 20 40.00 | 1.5 | | 1.2s | 51.00nm | 5.3mb | TIY | 80.90 | 27 eP | 27 04.20 | 1.1 | |
| BRG | 27.92 | 83 eP | 20 34.30 | -5.2X | Z | 20s | 2.10um | 5.2Msz | | N 18s | 1.50um | | | |
| | 1.8s | 36.00nm | 4.9mb | | TTA | 52.11 | 331 eP | 23 58.30 | -1.2 | PKI | 80.96 | 52 P | 27 04.20 | 0.2 |
| KEV | 28.12 | 40 eP | 20 40.00 | -1.1 | BMW | 52.55 | 299 P | 24 02.40 | -0.7 | DL2 | 81.71 | 20 eP | 27 08.50 | 1.3 |
| DOI | 28.13 | 100 Pd | 20 22.50 | -19.1X | ALQ | 52.56 | 278 eP | 24 03.70 | 0.3 | TIA | 83.42 | 24 eP | 27 15.40 | -0.8 |
| AFC | 28.14 | 123 eP | 20 42.00 | 0.2 | | 1.2s | 31.25nm | 5.1mb | XAN | 83.45 | 31 eP | 27 14.70 | -1.7 | |
| SOD | 28.28 | 45 iP | 20 44.40 | 1.8 | Z | 18s | 10.31um | 5.9Msz | CD2 | 84.83 | 36 eP | 27 24.00 | 0.6 | |
| KHC | 28.68 | 86 iPc | 20 47.50 | 1.0 | | 52.90 | 285 P | 24 04.60 | -1.4 | | Z 25s | 1.50um | 5.3MszX | |
| | | e | 21 34.00 | | MSU | 53.17 | 78 ePc | 24 10.50 | 2.8 | | E 12s | 0.90um | | |
| PRU | 28.72 | 84 eP | 20 45.50 | -1.3 | | | eS | 31 46.00 | | | | eS | 37 51.00 | |
| Z | 17s | 8.20um | 5.4MszX | | PRNI | 53.41 | 90 iP | 24 10.00 | 0.4 | KMZ | 85.65 | 123 eP | 27 28.00 | 0.3 |
| E | 16s | 9.40um | | | MBH | 53.80 | 90 eP | 24 13.00 | 0.7 | MAT | 86.10 | 7 (P) | 27 23.00 | -6.6X |
| | | e | 21 33.50 | | SLY | 55.01 | 77 eP | 24 22.00 | 0.8 | | Z 20s | 1.06um | 5.2Msz | |
| CKI | 28.74 | 99 P | 20 48.00 | 1.0 | | | eS | 32 07.00 | | | | eS | 39 12.00 | |
| SUF | 29.14 | 55 iP | 20 50.40 | 0.0 | TIC | 55.25 | 145 P | 24 21.00 | -2.1 | HYB | 86.65 | 63 eP | 27 32.00 | -0.6 |
| | 0.8s | 9.00nm | 4.6mb | | | 1.0s | 25.00nm | 5.2mb | WHN | 88.20 | 28 eP | 27 38.50 | -1.3 | |
| NUR | 29.17 | 59 eP | 20 50.00 | -0.6 | KDC | 55.36 | 325 eP | 24 23.60 | 0.2 | | Z 16s | 1.32um | 5.4MszX | |
| | Z | 24s | 7.30um | 5.2MszX | KVN | 55.56 | 290 P | 24 24.30 | -1.1 | | E 16s | 1.82um | | |
| | | LR | 30 40.00 | | KIC | 55.61 | 145 P | 24 23.60 | -2.1 | | | sP | 27 51.00 | |
| KSP | 29.19 | 81 ePd | 20 49.50 | -1.5 | | 1.3s | 65.00nm | 5.5mb | | | | S | 38 24.00 | |
| KJF | 29.40 | 51 eP | 20 52.00 | -0.7 | LIC | 55.65 | 145 P | 24 23.80 | -2.2 | PTZ | 88.90 | 119 iP | 27 46.00 | 2.6 |
| | | i | 20 57.20 | | TNP | 55.84 | 288 P | 24 26.20 | -1.3 | SSE | 89.21 | 22 P | 27 44.20 | -0.5 |
| FVI | 29.77 | 91 P | 20 55.00 | -1.1 | BHD | 56.20 | 80 ePc | 24 32.50 | 2.7 | | 1.0s | 12.00nm | 5.1mb | |
| KBA | 29.77 | 90 eP | 20 56.00 | -0.5 | | | i | 32 24.00 | | | Z 20s | 0.50um | 4.9Msz | |
| | 1.5s | 44.60nm | 5.1mb | | MIN | 56.34 | 293 ePc | 24 30.60 | -0.3 | | N 14s | 0.30um | | |
| RBL | 30.29 | 91 P | 20 46.50 | -14.4X | WDC | 56.62 | 294 ePc | 24 32.30 | -0.5 | | | e | 37 38.00 | |
| ZST | 31.13 | 85 e(P) | 21 08.50 | 0.3 | ORV | 56.88 | 293 e(P) | 24 33.80 | -0.9 | GBA | 89.38 | 65 P | 27 45.90 | 0.2 |
| KRA | 31.57 | 80 eP | 21 11.10 | -1.0 | FHC | 57.16 | 295 eP | 24 36.70 | 0.0 | | 0.9s | 3.80nm | 4.7mb | |
| | 0.9s | 27.00nm | 5.2mb | | KUK | 57.21 | 140 eP | 24 37.00 | -0.2 | KMI | 89.85 | 39 P | 27 48.50 | 0.4 |
| Z | 14s | 6.30um | 5.4MszX | | KOGH | 57.35 | 140 eP | 24 38.00 | -0.2 | | Z 20s | 3.70um | 5.8Msz | |
| N | 16s | 4.60um | | | CMB | 57.49 | 291 eP | 24 38.80 | -0.2 | | N 18s | 3.60um | | |
| | | e | 21 22.20 | | SHGH | 57.57 | 140 eP | 24 34.50 | -5.2X | | | eS | 38 11.00 | |
| PTJ | 31.92 | 90 eP | 21 12.60 | -2.7 | GSC | 57.75 | 286 eP | 24 42.00 | 1.1 | GYA | 89.89 | 35 P | 27 48.80 | 0.7 |
| SRO | 32.01 | 85 iP | 21 16.50 | 0.6 | CLC | 57.77 | 287 eP | 24 42.00 | 1.0 | FRS | 99.79 | 131 eP | 28 34.00 | 1.2 |
| TIO | 32.02 | 135 iP | 21 15.80 | -0.5 | FRI | 57.95 | 289 ePc | 24 42.60 | 0.5 | WB5 | | | | |

13d 15h

| | | | | |
|------|--------|------------|----------|------|
| BAL | 146.07 | 51 ePKP | 34 28.00 | 0.0 |
| MUN | 147.05 | 53 ePKP | 34 29.00 | -0.5 |
| SPA | 147.27 | 180 e(PKP) | 34 29.80 | 0.9 |
| | 1.0s | 11.50nm | | |
| | | e | 34 36.40 | |
| KLB | 147.37 | 50 ePKP | 34 31.00 | 1.0 |
| | 0.5s | 5.00nm | | |
| COOL | 148.09 | 45 ePKP | 34 34.00 | 2.8 |
| | 1.0s | 42.00nm | | |
| NWAO | 148.30 | 52 ePKP | 34 35.00 | 3.5X |
| | 1.0s | 13.00nm | | |
| RMQ | 149.03 | 357 ePKP | 34 38.00 | 5.1X |
| BRS | 149.66 | 349 iPKPc | 34 33.20 | -0.6 |

S.D. = 1.1 on 177 of 196 obs.

* FEB 13, 1989 15h 47m 00.47±0.65s
23.779 N ±12.5km 44.811 W ±15.4km
DEPTH = 10.0km (geophysicist)
4.8mb (3 obs.)

NORTH ATLANTIC RIDGE (403)

| | | | | |
|------|-------|---------|----------|---------|
| ZOBO | 45.86 | 212 eP | 55 25.00 | -0.5 |
| | Z 24s | 1.01um | | 4.7mszX |
| | | i | 55 29.00 | |
| | | LR | 10 12.00 | |
| LPB | 46.07 | 212 eP | 55 27.00 | 0.0 |
| CNCB | 46.26 | 211 P | 55 29.00 | 0.4 |
| KBA | 51.46 | 48 e(P) | 56 14.50 | 6.3X |
| KHC | 51.85 | 45 eP | 56 10.20 | -0.8 |
| | | e | 56 21.20 | |
| FFC | 52.07 | 322 eP | 56 11.00 | -1.5 |
| | 0.9s | 10.00nm | | 4.7mb |
| NB2 | 53.17 | 30 P | 56 24.20 | 3.5X |
| | 1.2s | 13.20nm | | 4.8mb |
| ZST | 54.09 | 47 eP | 56 36.80 | 9.3X |
| | | e | 57 03.50 | |
| ALO | 54.12 | 297 eP | 56 28.50 | 0.3 |
| SRO | 54.88 | 47 eP | 56 51.20 | 17.9X |
| BZS | 57.13 | 50 eP | 56 50.00 | 0.4 |
| EDM | 58.54 | 319 eP | 56 59.00 | -0.4 |
| ALE | 59.19 | 357 eP | 57 03.00 | -0.5 |
| | 1.0s | 14.00nm | | 5.0mb |
| YKA | 59.87 | 330 P | 57 11.70 | 3.3X |
| MLR | 60.17 | 50 eP | 57 11.00 | 0.1 |
| | | e | 03 59.00 | |
| BNG | 63.87 | 97 ePd | 57 52.10 | 16.1X |
| | 1.0s | 10.00nm | | |
| INK | 67.67 | 336 eP | 58 02.00 | 2.5 |

S.D. = 1.1 on 11 of 17 obs.

FEB 13, 1989 15h 51m 06.35±1.57s
9.377 N ±6.4km 123.334 E ±10.5km
DEPTH = 54.7 ±15.3 km
4.8mb (11 obs.) 4.5msz (3 obs.)
NEGROS, PHILIPPINE ISLANDS (257)

| | | | | |
|-----|-------|---------|----------|--------|
| DAV | 3.18 | 136 eP | 51 59.50 | 4.5X |
| OCP | 5.67 | 337 eP | 52 23.00 | -7.2X |
| TSM | 7.31 | 226 ePd | 52 53.00 | -0.1 |
| BAG | 7.49 | 339 eP | 52 55.10 | -0.6 |
| MNI | 8.02 | 169 eP | 53 04.80 | 1.9 |
| PCI | 10.79 | 199 iP | 53 40.70 | -0.2 |
| QZH | 16.13 | 344 eP | 54 56.00 | 5.1X |
| | E 28s | 3.70um | | |
| QIZ | 16.21 | 308 eP | 54 53.00 | 0.9 |
| | N 20s | 2.90um | | |
| | | eS | 57 58.00 | |
| SSE | 21.70 | 355 P | 55 53.00 | -1.5 |
| | Z 20s | 0.90um | | 4.2msz |
| | N 16s | 0.90um | | |
| | | pP | 56 01.00 | 29kmX |
| IPM | 22.64 | 259 ePd | 56 05.90 | 1.9 |
| | 0.6s | 17.90nm | | 4.7mb |
| WHN | 22.67 | 340 eP | 55 59.00 | -5.0X |
| GYA | 23.19 | 319 eP | 56 17.00 | 7.6X |
| | N 13s | 1.40um | | |
| | E 13s | 0.94um | | |
| MTN | 23.40 | 161 eP | 56 13.00 | 1.8 |
| KMI | 25.08 | 311 Pc | 56 31.00 | 3.3X |
| CHG | 25.42 | 294 eP | 56 31.00 | 0.3 |
| TIA | 27.30 | 349 eP | 56 47.20 | -0.6 |
| XAN | 27.89 | 334 eP | 56 49.80 | -3.4X |
| CD2 | 28.13 | 322 eP | 56 55.40 | 0.0 |
| TIY | 29.88 | 342 eP | 57 11.80 | 0.7 |
| WB5 | 31.04 | 160 eP | 57 20.00 | -1.3 |
| WRA | 31.09 | 160 Pd | 57 21.30 | -0.5 |

| | | | | |
|-------|-------|---------|----------|--------|
| WB2 | 31.09 | 160 eP | 57 20.00 | -1.8 |
| BJI | 31.19 | 349 eP | 57 21.50 | -1.0 |
| LZH | 31.96 | 329 eP | 57 22.50 | -7.0X |
| SNY | 32.32 | 0 eP | 57 32.80 | 0.5 |
| SHL | 33.92 | 302 eP | 57 45.00 | -1.7 |
| | | eS | 03 04.50 | |
| CN2 | 34.34 | 3 eP | 57 54.00 | 4.1X |
| ASPA | 34.43 | 163 iPc | 57 51.00 | 0.2 |
| | 0.8s | 11.00nm | | 4.8mb |
| WARB | 35.49 | 175 eP | 57 51.20 | -8.7X |
| MDJ | 35.52 | 8 eP | 58 00.00 | 0.1 |
| MEKA | 36.08 | 187 eP | 58 03.00 | -1.8 |
| | 0.7s | 10.00nm | | 4.9mb |
| LSA | 36.25 | 308 P | 58 08.50 | 1.7 |
| GTA | 36.55 | 329 eP | 58 07.00 | -1.8 |
| GUN | 39.77 | 303 P | 58 34.70 | -1.5 |
| PKI | 40.05 | 302 P | 58 37.40 | -1.0 |
| | 0.8s | 17.00nm | | 4.9mb |
| KKN | 40.23 | 302 P | 58 38.90 | -0.9 |
| | 0.9s | 40.00nm | | 5.2mb |
| DMN | 40.31 | 302 P | 58 39.50 | -1.0 |
| | 1.0s | 45.00nm | | 5.2mb |
| GKN | 40.83 | 302 P | 58 43.80 | -0.9 |
| | 0.9s | 19.00nm | | 4.9mb |
| NWAO | 42.47 | 188 eP | 58 56.00 | -1.7 |
| | 0.7s | 8.00nm | | 4.6mb |
| Z 20s | | 0.50um | | 4.4msz |
| N 20s | | 0.40um | | |
| E 20s | | 0.50um | | |
| HYB | 44.20 | 285 eP | 59 12.50 | 0.4 |
| GBA | 45.12 | 280 Pd | 59 18.20 | -1.3 |
| | 0.6s | 3.50nm | | 4.4mb |
| GBA | 45.12 | 280 P | 59 22.00 | 2.5 |
| KOD | 45.18 | 275 eP | 59 21.20 | 0.9 |
| WMQ | 46.20 | 324 eP | 59 31.80 | 4.1X |
| SOD | 83.99 | 337 eP | 03 34.00 | 2.2 |
| KJF | 84.07 | 334 eP | 03 33.00 | 0.8 |
| SUF | 85.02 | 333 eP | 03 38.00 | 1.0 |
| NUR | 86.16 | 331 eP | 03 48.00 | 5.3X |
| | Z 21s | 0.90um | | 5.1msz |
| | | LR | 17 30.00 | |
| INK | 86.17 | 21 eP | 03 45.00 | 2.4 |
| NB2 | 92.26 | 333 P | 04 12.60 | 1.1 |
| | 0.8s | 2.40nm | | 4.7mb |
| YKA | 95.73 | 23 P | 04 31.50 | 4.1X |

S.D. = 1.4 on 38 of 51 obs.

* FEB 13, 1989 16h 27m 34.18±0.51s
57.484 N ±14.8km 33.148 W ±6.2km
DEPTH = 10.0km (geophysicist)
4.7mb (5 obs.)

NORTH ATLANTIC OCEAN (402)

| | | | | |
|------|--------|----------|----------|--------|
| GDH | 14.81 | 331 eP | 30 52.00 | -13.1X |
| | | i | 31 11.00 | |
| FRB | 18.27 | 305 eP | 31 51.00 | 2.0 |
| SCH | 18.81 | 276 eP | 31 55.00 | -0.7 |
| TOL | 25.76 | 121 eP | 33 07.50 | 1.1 |
| BZS | 35.10 | 86 eP | 34 29.50 | 0.3 |
| FFC | 37.00 | 296 eP | 34 45.00 | -0.1 |
| | 0.8s | 9.00nm | | 4.6mb |
| SKO | 37.43 | 90 eP | 34 48.00 | -0.9 |
| YKA | 38.50 | 312 P | 34 57.70 | 0.1 |
| INK | 41.83 | 327 eP | 35 24.00 | -1.0 |
| TUL | 46.14 | 270 e(P) | 36 00.00 | -0.2 |
| | 1.0s | 10.00nm | | 4.8mb |
| MEQ | 48.49 | 271 eP | 36 18.50 | -0.2 |
| | 1.0s | 14.80nm | | 5.0mb |
| PNT | 48.84 | 300 eP | 36 22.00 | 0.7 |
| | 0.6s | 5.00nm | | 4.7mb |
| BTO | 77.50 | 28 eP | 39 31.30 | 0.1 |
| CN2 | 77.51 | 16 eP | 39 30.00 | -1.1 |
| GKN | 80.19 | 53 P | 39 46.40 | 0.3 |
| KKN | 80.65 | 52 P | 39 49.00 | 0.3 |
| | 0.7s | 5.00nm | | 4.6mb |
| DMN | 80.73 | 52 P | 39 49.60 | 0.4 |
| GUN | 80.80 | 52 P | 39 50.10 | 0.5 |
| TIY | 80.84 | 27 eP | 39 49.00 | -0.3 |
| PKI | 80.89 | 52 P | 39 50.20 | 0.1 |
| ASPA | 144.94 | 21 iPKPc | 47 11.40 | -1.4 |
| | 1.1s | 11.00nm | | |

S.D. = 0.8 on 20 of 21 obs.

* FEB 13, 1989 16h 57m 10.51±5.38s
25.854 S ±20.2km 177.599 W ±26.4km
DEPTH = 278.4 ±44.5 km

4.5mb (6 obs.) SOUTH OF FIJI ISLANDS (171)

| | | | | |
|------|--------|-----------|----------|-------|
| DZM | 15.06 | 281 iPc | 00 32.10 | 0.2 |
| MSZ | 22.13 | 208 eP | 01 42.00 | -2.0 |
| CAN | 30.15 | 244 eP | 02 59.20 | 2.2 |
| RMQ | 30.16 | 261 eP | 02 58.00 | 0.9 |
| BWA | 30.49 | 246 eP | 02 58.20 | -1.8 |
| TOO | 33.30 | 240 iPd | 03 25.20 | 1.0 |
| QIS | 39.56 | 269 eP | 04 17.00 | 0.4 |
| ASPA | 43.90 | 262 iPc | 04 51.60 | -0.2 |
| | 0.5s | 37.00nm | | 5.0mb |
| | | eS | 11 13.90 | |
| WB2 | 44.46 | 267 iPd | 04 57.00 | 0.8 |
| WB5 | 44.47 | 267 iPd | 04 57.00 | 0.7 |
| WRA | 44.47 | 267 Pc | 04 55.70 | -0.6 |
| | 0.5s | 8.60nm | | 4.3mb |
| FORR | 47.66 | 251 iPd | 05 20.50 | -0.6 |
| WARB | 49.77 | 257 eP | 05 29.00 | -8.3X |
| COOL | 53.56 | 250 iPd | 06 04.40 | -0.9 |
| | 0.3s | 4.00nm | | 4.3mb |
| KLB | 56.26 | 248 eP | 06 24.00 | -0.6 |
| | 0.4s | 5.00nm | | 4.4mb |
| BAL | 57.35 | 249 eP | 06 31.00 | -1.2 |
| | 0.4s | 5.00nm | | 4.4mb |
| SPA | 64.30 | 180 iPd | 07 19.30 | 0.9 |
| | 1.0s | 24.50nm | | 4.9mb |
| MAW | 76.68 | 200 eP | 08 34.00 | 2.1 |
| NB2 | 144.32 | 353 PKP | 16 14.00 | -0.3 |
| | 0.7s | 10.90nm | | |
| UPP | 144.41 | 347 iPKP | 16 13.60 | -0.8 |
| BBTK | 151.09 | 306 iPKPc | 16 34.50 | 8.7X |
| BNG | 153.67 | 219 iPKPd | 16 40.50 | 10.4X |
| | 0.3s | 13.00nm | | |
| | | i | 16 54.00 | |

S.D. = 1.3 on 19 of 22 obs.

* FEB 13, 1989 17h 17m 51.97±2.53s
51.211 N ±20.5km 15.909 E ±13.6km
DEPTH = 10.0km (geophysicist)

POLAND (548)

| | |
|-----|-----------------------------|
| | ML 3.3 (VKA), 3.1 (KBA). |
| KSP | 0.44 146 iPd 18 00.90 -0.1 |
| | iS 18 10.30 |
| BRG | 1.28 256 iPg 18 15.40 -0.4 |
| | iSg 18 35.20 |
| PRU | 1.50 216 ePn 18 19.00 0.0 |
| | Pg 18 21.10 |
| | Sn 18 37.50 |
| | Sg 18 45.80 |
| CLL | 1.83 274 i(Pg) 18 23.80 0.1 |
| | iSg 18 48.50 |
| KHC | 2.57 217 Pn 18 34.90 0.6 |
| | Pg 18 40.90 |
| | Sn 19 05.50 |
| | Sg 19 24.00 |
| MOX | 2.77 260 ePg 18 43.00 5.7X |
| | iSg 19 23.00 |
| VKA | 2.96 175 iPg 18 49.70 9.8X |
| | iSg 19 32.80 |
| ZST | 3.12 165 eP 19 41.50 59.5X |
| | e 50 34.00 |
| KBA | 4.47 203 ePn 19 01.00 -0.4 |
| | eSg 20 19.00 |
| | i 20 23.60 |

S.D. = 0.5 on 6 of 9 obs.

* FEB 13, 1989 17h 22m 08.97±0.86s
20.522 S ±12.6km 135.963 E ±7.9km
DEPTH = 5.0km (geophysicist)

NORTHERN TERRITORY, AUSTRALIA (591)

| | | | | |
|------|------|--------|----------|------|
| WB2 | 1.62 | 291 eP | 22 38.20 | -0.1 |
| WRA | 1.63 | 290 Pc | 22 38.70 | 0.3 |
| | 0.4s | 5.20nm | | |
| WB5 | 1.63 | 293 eP | 22 38.20 | -0.2 |
| QIS | 3.41 | 91 eP | 23 04.00 | 0.0 |
| ASPA | 3.67 | | | |

iS 32 09.00
CNCB 4.17 34 eP 31 30.00 -0.2
LPB 4.34 31 P 31 33.20 0.6
ZOBO 4.55 29 iPd 31 35.00 -0.8
CCH 4.99 55 P 31 42.00 0.3
ITA 24.06 100 eP 35 40.40 -0.1
S.D. = 0.6 on 6 of 6 obs.

FEB 13, 1989 17h 32m 48.12 ± 1.06s
45.895 N ± 5.2km 1.443 W ± 9.5km
DEPTH = 10.0km (geophysicist)

FRANCE (538)
ML 4.0 (LDG).

MFF 1.15 51 Pn 33 11.20 1.7
Pg 33 11.60
Sg 33 25.00
LFF 1.81 121 Pn 33 20.70 1.2
Pg 33 22.40
Sg 33 47.50
LSF 2.10 79 Pn 33 24.40 0.6
Pg 33 28.40
Sg 33 54.00
LPF 2.16 7 Pn 33 25.40 0.9
Pg 33 29.80
Sg 33 56.50
RJF 2.16 105 Pn 33 25.60 1.0
Pg 33 28.40
Sg 33 55.20
LPO 2.22 122 Pn 33 26.20 0.7
Pg 33 29.20
Sg 34 00.60
GRR 2.53 9 Pn 33 30.20 0.4
Pg 33 36.00
Sg 34 08.10
TCF 2.57 80 Pn 33 30.80 0.3
Sg 34 10.00
CAF 2.65 110 Pn 33 31.80 0.1
Pg 33 38.40
Sg 34 13.00
MAF 2.81 82 Pn 33 34.00 0.1
Pg 33 41.80
Sg 34 16.00
LDF 2.85 18 Pn 33 34.40 0.0
Pg 33 41.60
Sg 34 18.40
FLN 2.94 12 Pn 33 35.00 -0.7
Sg 34 21.40
BGF 3.05 76 Pn 33 37.20 -0.1
Pg 33 47.00
Sg 34 25.40
HYF 3.13 63 Pg 33 47.60 9.2X
Sg 34 26.40
EPF 3.13 155 Pn 33 38.10 -0.4
Pg 33 47.00
Sg 34 28.00
AVF 3.44 73 Pn 33 42.20 -0.6
Pg 33 53.60
Sg 34 36.00
SSF 3.61 69 Pn 33 45.00 -0.3
Pg 33 55.20
Sg 34 41.60
SMF 3.74 77 Pn 33 46.40 -0.8
Pg 33 59.00
Sg 34 46.40
LBF 3.90 72 Pn 33 49.40 0.0
Pg 34 01.60
Sg 34 51.00
LOR 3.91 67 Pn 33 48.40 -1.1
Pg 34 01.40
Sg 34 51.00
HAU 5.74 66 Pg 34 35.60 20.2X
Sg 35 47.40
DOU 5.84 42 iPc 34 15.30 -1.4
iS 35 18.30
LRG 6.08 111 Pn 34 19.30 -0.8
FRF 6.22 109 Pn 34 21.20 -0.9
MEM 6.85 44 P 34 31.40 0.4
S.D. = 0.8 on 23 of 25 obs.

* FEB 13, 1989 17h 46m 24.75 ± 0.82s
33.211 N ± 7.3km 141.179 E ± 17.3km
DEPTH = 33.0km (normal)
4.3mb (1 obs.)

OFF EAST COAST OF HONSHU, JAPAN (229)

KAKJ 3.10 345 P 47 12.60 0.2

S 47 43.80
CHJJ 3.35 328 P 47 14.20 -1.9
S 47 48.30
IIDJ 3.52 311 P 47 20.10 1.5
S 47 57.90
MAT 4.12 325 iPd 47 26.40 -0.6
iS 48 08.00
MTMJ 4.36 321 P 47 30.30 -0.2
NIJJ 4.40 337 eP 47 31.20 0.3
eS 48 19.10
YAMJ 5.04 350 eP 47 40.90 0.9
OFUJ 5.87 4 eP 47 51.60 -0.1
W85 53.19 188 eP 55 42.10 0.1
WB2 53.26 188 eP 55 42.10 -0.4
WRA 53.26 188 Pc 55 42.60 0.1
0.5s 1.60nm 4.3mb
S.D. = 1.0 on 11 of 11 obs.

% FEB 13, 1989 18h 08m 04.60 ± 0.65s
16.086 N ± 6.4km 61.335 W ± 8.9km
DEPTH = 33.0km (normal)

LEEWARD ISLANDS (92)
ML 2.8 (FDF).

MGG 0.17 174 eP 08 14.30 3.4X
SFG 0.21 39 eP 08 12.90 1.6
DOG 0.28 259 eP 08 12.96 0.8
PAG 0.34 260 eP 08 13.15 0.2
S 08 28.20
DEG 0.35 49 ePc 08 13.15 0.1
S 08 28.90
SEG 0.36 333 ePc 08 11.17 -1.9
S 08 24.40
BBL 0.58 194 eP 08 17.40 1.1
FDF 1.36 172 iPd 08 27.07 -0.4
S 08 53.10
CRM 1.38 163 eP 08 27.41 -0.4
MVM 1.58 164 eP 08 29.96 -0.7
S 08 58.50
BIM 1.58 171 eP 08 30.21 -0.5
S.D. = 1.1 on 10 of 11 obs.

* FEB 13, 1989 19h 03m 23.74 ± 1.25s
51.640 N ± 7.9km 6.788 E ± 22.4km
DEPTH = 10.0km (geophysicist)

GERMANY (543)

WTS 0.36 2 iPg 03 31.00 -0.1
i 03 33.00
i 03 41.50
ENN 1.03 212 iPg 03 42.90 -0.3
0.5s 14.00nm
iSg 04 02.50
MEM 1.14 206 P 03 44.80 -0.3
S 04 04.30
SNF 1.94 235 Pc 03 57.40 0.3
WLF 2.02 192 P 03 58.50 0.3
DOU 2.08 223 P 03 59.00 -0.1
iS 04 30.10
KHC 5.02 117 eP 05 38.00 57.2X
S.D. = 0.4 on 6 of 7 obs.

? FEB 13, 1989 19h 30m 48.94 ± 2.18s
51.375 N ± 25.6km 176.043 W ± 14.4km
DEPTH = 33.0km (normal)
4.3mb (1 obs.)

ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK 0.65 322 iPd 31 01.70 0.1
SDN 10.10 61 eP 33 15.00 0.3
SVW 14.89 41 eP 34 25.50 6.9X
KDC 15.03 56 eP 34 23.90 3.6X
TTA 15.79 35 eP 34 35.00 4.8X
IMA 18.58 29 eP 35 06.20 1.1
TOA 19.39 45 eP 35 13.90 -0.9
FBA 19.90 36 eP 35 19.00 -1.1
YKA 33.98 47 P 37 34.30 3.3X
BW06 44.65 74 eP 39 00.50 0.3
0.6s 2.67nm 4.3mb
e 39 17.50

GOL 49.02 75 eP 39 34.80 0.2
S.D. = 0.9 on 7 of 11 obs.

FEB 13, 1989 19h 53m 27.96 ± 0.70s
43.133 N ± 4.6km 13.442 E ± 7.1km
DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)

MD 2.7 (SSO).

SSO 0.16 354 iPg 53 32.72 1.0
iSg 53 36.94
C10 0.23 286 iPg 53 33.12 0.2
iSg 53 37.58
ALP 0.37 164 iPg 53 34.90 -0.6
iSg 53 40.87
AOI 0.43 16 iPg 53 36.21 -0.6
iSg 53 44.27
ARV 0.52 315 P 53 38.00 -0.4
eSg 53 46.60
ASS 0.58 264 P 53 38.90 -0.8
eSg 53 47.80
MNS 0.94 217 P 53 46.60 0.8
eSg 53 59.80
SDI 1.45 169 P 53 54.70 0.4
eSg 54 14.00
S.D. = 0.8 on 8 of 8 obs.

* FEB 13, 1989 20h 24m 01.81 ± 1.14s
4.265 N ± 11.3km 117.843 E ± 13.3km
DEPTH = 32.5 ± 8.4 km
4.4mb (4 obs.)

KALIMANTAN (261)

TSM 0.23 100 iPd 24 09.10 0.4
PCI 5.51 159 iP 25 28.50 4.8X
iS 26 21.80
MNI 7.53 112 eP 25 50.30 -1.8
CHG 23.45 310 eP 29 15.70 6.3X
GYA 24.53 335 P 29 25.40 5.5X
WB5 28.98 146 eP 30 01.50 0.7
WRA 29.01 147 Pd 30 01.80 0.7
0.7s 4.00nm 4.2mb
WB2 29.02 147 eP 30 01.50 0.3
TIY 33.66 352 eP 30 42.60 0.8
LZH 34.19 340 eP 30 48.50 1.8
BJI 35.65 358 eP 31 04.00 5.3X
BTO 36.85 350 eP 31 10.50 1.4
SNY 37.75 7 eP 31 16.00 -0.4
GUN 38.45 311 P 31 22.50 -0.5
GTA 38.61 337 eP 31 23.00 -0.9
PKI 38.63 310 P 31 23.80 -0.7
0.6s 6.00nm 4.6mb
KKN 38.84 311 P 31 25.50 -0.6
DMN 38.88 310 P 31 25.90 -0.6
GKN 39.44 310 P 31 30.50 -0.5
0.8s 14.00nm 4.8mb
HYB 40.64 292 eP 31 46.00 5.2X
GBA 40.92 286 Pc 31 48.60 5.5X
0.8s 3.20nm 4.1mb
MDJ 41.49 13 eP 31 47.00 -0.5
WMO 47.53 330 eP 32 36.20 0.1
MHI 62.21 309 eP 34 27.00 4.1X
S.D. = 1.0 on 17 of 24 obs.

? FEB 13, 1989 20h 55m 07.48 ± 4.10s
32.565 N ± 12.1km 131.077 E ± 31.7km
DEPTH = 167.6 ± 45.0 km

KYUSHU, JAPAN (235)

KUMJ 0.21 262 iP+ 55 30.10 -0.2
S 55 45.20
KAGJ 1.38 187 iPd 55 37.70 0.1
iS 55 58.00
SHNJ 1.56 1 iP+ 55 39.30 0.0
S 56 02.20
TKSJ 2.86 60 iP+ 55 54.50 0.2
S 56 26.30
YONJ 3.28 37 iP+ 55 59.90 0.3
S 56 37.80
WKYJ 4.12 65 P 56 10.50 0.0
eS 56 57.90
TSRJ 5.04 53 eP 56 22.00 -0.4
eS 57 17.50
MAT 7.10 54 (P) 56 55.00 5.2X
(S) 57 49.00
S.D. = 0.3 on 7 of 8 obs.

* FEB 13, 1989 20h 56m 07.70s
61.098 N 131.252 W
DEPTH = 18.0km
SOUTHERN YUKON TERRITORY, CANADA (18)
<PGC-P>. ML 4.2 (PGC).

WHC 1.91 261 ePn 56 39.00 -0.8

13d 20h

| | | | | | |
|-------------------|-------|--------|----|-------|------|
| | | Pg | 56 | 41.80 | |
| | | Sg | 57 | 07.70 | |
| DLB | 2.75 | ePn | 56 | 51.00 | -0.8 |
| | | Pg | 56 | 57.50 | |
| | | Sg | 57 | 33.50 | |
| HYT | 3.06 | 268 P | 56 | 55.20 | -1.0 |
| DWY | 4.81 | 312 P | 57 | 18.70 | -2.2 |
| INK | 7.30 | 353 eP | 57 | 52.00 | -4.0 |
| YKA | 8.01 | 73 P | 58 | 01.20 | -4.7 |
| MBC | 15.75 | 10 eP | 59 | 42.00 | -7.8 |
| 7 obs. associated | | | | | |

& FEB 13, 1989 21h 19m 41.68s
 58.790 N 154.575 W
 DEPTH = 119.4km
 ALASKA PENINSULA (12)
 <AGS-P>.

| | | | | | |
|--------------------|-------|---------|----|-------|------|
| AUI | 0.81 | 47 eP | 20 | 01.78 | -0.3 |
| | | eS | 20 | 17.58 | |
| AUE | 0.84 | 47 iP | 20 | 02.29 | -0.1 |
| PDB | 1.02 | 11 iP | 20 | 03.04 | -1.1 |
| | | eS | 20 | 19.83 | |
| KDC | 1.52 | 133 iPc | 20 | 08.40 | -1.2 |
| ILIM | 1.54 | 32 iP | 20 | 09.09 | -0.8 |
| | | eS | 20 | 30.00 | |
| CNPM | 1.87 | 65 iP | 20 | 12.65 | -1.3 |
| RED | 1.87 | 29 iP | 20 | 12.63 | -1.4 |
| NNL | 2.09 | 52 eP | 20 | 16.53 | -0.2 |
| | | eS | 20 | 42.08 | |
| RDT | 2.10 | 31 iP | 20 | 15.40 | -1.5 |
| | | eS | 20 | 41.13 | |
| SVW | 2.38 | 348 iPd | 20 | 18.60 | -2.0 |
| SPU | 2.71 | 27 iP | 20 | 22.78 | -2.1 |
| CRP | 2.77 | 25 iP | 20 | 24.01 | -1.7 |
| SLKM | 2.80 | 50 eP | 20 | 24.39 | -1.6 |
| SEW | 2.93 | 61 eP | 20 | 26.10 | -1.6 |
| | | eS | 20 | 58.03 | |
| PTE | 3.49 | 51 eP | 20 | 32.87 | -2.3 |
| PMS | 3.52 | 43 ePc | 20 | 32.90 | -2.7 |
| PWA | 3.70 | 37 eP | 20 | 35.68 | -2.4 |
| PWL | 3.77 | 54 eP | 20 | 36.02 | -3.0 |
| PLRM | 3.91 | 42 eP | 20 | 37.02 | -3.8 |
| PMR | 3.91 | 42 eP | 20 | 36.90 | -3.9 |
| PME | 3.97 | 42 eP | 20 | 38.12 | -3.5 |
| KNK | 4.04 | 47 eP | 20 | 39.03 | -3.6 |
| GHO | 4.11 | 41 eP | 20 | 39.73 | -3.9 |
| TTA | 4.21 | 351 ePd | 20 | 42.50 | -2.6 |
| SML | 4.34 | 43 iP | 20 | 42.66 | -4.0 |
| HIN | 4.41 | 65 eP | 20 | 45.18 | -2.5 |
| VZW | 4.63 | 57 eP | 20 | 47.71 | -3.0 |
| VLZ | 4.76 | 57 eP | 20 | 50.14 | -2.2 |
| CVA | 4.81 | 65 eP | 20 | 50.24 | -2.8 |
| SGAM | 5.05 | 66 eP | 20 | 53.59 | -2.8 |
| KLU | 5.10 | 54 eP | 20 | 53.72 | -3.4 |
| RAGM | 5.28 | 68 eP | 20 | 57.94 | -1.6 |
| TOA | 5.32 | 48 eP | 20 | 56.80 | -3.3 |
| FBA | 6.92 | 25 eP | 21 | 16.70 | -5.2 |
| IMA | 7.32 | 3 eP | 21 | 23.90 | -3.6 |
| INK | 13.29 | 36 eP | 22 | 43.00 | -3.5 |
| YKA | 19.71 | 62 P | 24 | 02.90 | -0.6 |
| 37 obs. associated | | | | | |

* FEB 13, 1989 21h 34m 07.49±1.43s
 38.816 N ± 8.9km 142.432 E ± 10.6km
 DEPTH = 38.6 ± 10.5 km
 5.1mb (6 obs.)
 NEAR EAST COAST OF HONSHU, JAPAN(228)
 Felt (1 JMA) at Miyoko; (1 JMA)
 at Ofunoto and Morioka.

| | | | | | |
|------|-------|----------|----|-------|-------|
| OFU | 0.61 | 294 P | 34 | 19.50 | -0.1 |
| | | S | 34 | 28.20 | |
| OFUJ | 0.65 | 294 iPd | 34 | 20.00 | -0.3 |
| | | S | 34 | 29.30 | |
| MIY | 0.90 | 337 iP | 34 | 22.00 | -1.8 |
| | | S | 34 | 32.10 | |
| MRK | 1.32 | 312 P | 34 | 29.90 | 0.2 |
| | | iS | 34 | 46.10 | |
| YAMJ | 1.99 | 252 P | 34 | 40.70 | 1.4 |
| | | S | 35 | 07.00 | |
| MAT | 4.05 | 237 iPd | 35 | 11.00 | 2.4 |
| | 0.9s | 205.88nm | | | |
| | | eS | 36 | 20.00 | |
| CN2 | 13.70 | 297 eP | 37 | 30.00 | 8.6X |
| SSE | 19.02 | 253 P | 38 | 28.50 | -0.2 |
| | 1.0s | 29.00nm | | | 4.5mb |

| | | | |
|-----------------------------|--------|----------|----------------|
| Z | 16s | 0.40um | 5.2MsZx |
| | | i | 38 35.00 |
| TIA | 20.23 | 271 eP | 38 40.00 -2.0 |
| BJI | 20.30 | 282 eP | 38 40.00 -2.6 |
| Z | 14s | 0.50um | 4.0MsZx |
| WHN | 24.45 | 259 eP | 39 23.20 -0.7 |
| | | pP | 39 31.50 29kmX |
| XAN | 27.29 | 270 eP | 39 49.90 -0.4 |
| GYA | 32.34 | 258 P | 40 35.00 -0.4 |
| GTA | 32.85 | 285 eP | 40 40.00 0.2 |
| KMI | 36.05 | 260 Pd | 41 08.00 0.5 |
| WMQ | 40.78 | 295 eP | 41 47.00 0.4 |
| CHG | 42.52 | 255 eP | 42 02.30 1.3 |
| GUN | 47.80 | 275 P | 42 44.30 0.8 |
| | 0.7s | 15.00nm | 5.1mb |
| KKN | 48.32 | 275 P | 42 48.20 0.8 |
| | 0.8s | 20.00nm | 5.2mb |
| PKI | 48.33 | 274 P | 42 48.00 0.4 |
| DMN | 48.54 | 275 P | 42 50.20 1.0 |
| GKN | 48.72 | 275 P | 42 51.00 0.6 |
| INK | 52.44 | 28 eP | 43 20.00 2.0 |
| MBC | 54.59 | 17 eP | 43 33.00 -0.8 |
| WB5 | 58.87 | 189 iPc | 44 03.90 -0.9 |
| WB2 | 58.94 | 189 iPc | 44 03.90 -1.3 |
| WRA | 58.94 | 189 P | 44 04.20 -1.0 |
| | 0.7s | 13.10nm | 5.2mb |
| HYB | 59.06 | 268 iPd | 44 05.80 -0.6 |
| GBA | 62.16 | 265 P | 44 27.00 -0.4 |
| ASPA | 62.66 | 189 iPc | 44 29.00 -1.5 |
| | 0.8s | 11.00nm | 5.0mb |
| KJF | 65.27 | 334 eP | 44 42.00 -5.1X |
| WARB | 66.33 | 195 eP | 44 47.20 -7.0X |
| | 0.7s | 11.00nm | 5.0mb |
| SUF | 66.76 | 333 eP | 44 58.00 1.4 |
| ZOBO | 145.08 | 59 PKP | 53 43.00 -0.4 |
| LPB | 145.28 | 59 (PKP) | 53 44.00 0.4 |
| CNCB | 145.56 | 59 ePKP | 53 46.00 1.7 |
| S.D. = 1.2 on 33 of 36 obs. | | | |

? FEB 13, 1989 22h 33m 36.30±4.77s
 46.114 N ± 17.4km 1.239 W ± 39.9km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.6 (LDG).

| | | | | | |
|---------------------------|------|--------|----|-------|-------|
| MFF | 0.90 | 57 Pg | 33 | 53.20 | -0.4 |
| | | Sg | 34 | 08.00 | |
| LFF | 1.82 | 129 Pg | 34 | 04.60 | -3.3X |
| | | Sg | 34 | 28.40 | |
| LSF | 1.93 | 85 Pg | 34 | 10.00 | 0.5 |
| | | Sg | 34 | 36.00 | |
| RJF | 2.09 | 112 Pg | 34 | 12.00 | 0.1 |
| | | Sg | 34 | 38.00 | |
| LPO | 2.23 | 129 Pg | 34 | 12.40 | -1.4 |
| | | Sg | 34 | 40.00 | |
| CAF | 2.61 | 116 Pg | 34 | 20.00 | 0.8 |
| | | Sg | 34 | 54.40 | |
| BGF | 2.86 | 80 Pg | 34 | 28.20 | 5.3X |
| | | Sg | 35 | 07.80 | |
| EPF | 3.28 | 159 Pg | 34 | 29.20 | 0.4 |
| S.D. = 1.0 on 6 of 8 obs. | | | | | |

FEB 13, 1989 22h 57m 32.42±1.27s
 2.903 S ± 5.1km 140.671 E ± 6.6km
 DEPTH = 43.5 ± 12.6 km
 5.0mb (8 obs.) 3.8MsZ (1 obs.)
 NEAR N. COAST OF WEST IRIAN (197)
 Felt at Jayopura.

| | | | | | |
|------|-------|----------|----|-------|--------|
| MNDI | 4.39 | 137 eP | 58 | 41.00 | 2.4 |
| LAT | 7.32 | 121 e(P) | 59 | 18.00 | -1.6 |
| MTN | 13.66 | 223 iPd | 00 | 45.30 | -0.5 |
| | | e | 03 | 07.00 | |
| KNA | 17.33 | 222 eP | 01 | 34.00 | 1.1 |
| | | eS | 04 | 38.00 | |
| QIS | 17.58 | 183 eP | 01 | 34.00 | -2.0 |
| | | eS | 04 | 46.00 | |
| CTA | 17.93 | 163 eP | 01 | 41.00 | 0.7 |
| WB5 | 17.96 | 200 eP | 01 | 40.00 | -0.7 |
| | | eS | 04 | 53.80 | |
| WB2 | 18.03 | 200 eP | 01 | 40.00 | -1.5 |
| | | eS | 04 | 53.80 | |
| WRA | 18.03 | 200 P | 01 | 41.60 | 0.0 |
| | 0.4s | 13.60nm | | | 4.4mb |
| ASPA | 21.66 | 197 iPd | 02 | 20.80 | -0.5 |
| Z | 22s | 0.47um | | | 3.8MsZ |
| | | eS | 06 | 17.10 | |

| | | | |
|-----------------------------|--------|-----------|----------------|
| LR | 11 | 04.10 | |
| RMQ | 24.70 | 162 eP | 02 52.00 1.0 |
| WARB | 26.78 | 209 eP | 03 04.00 -6.4X |
| BRS | 26.96 | 156 iPc | 03 13.20 1.2 |
| | | i | 03 22.90 |
| | | i | 03 29.50 |
| MBL | 27.22 | 227 iPd | 03 15.70 1.3 |
| | 0.5s | 7.00nm | 4.6mb |
| FORR | 30.23 | 202 eP | 03 41.00 -0.3 |
| NANU | 31.25 | 229 eP | 03 50.00 -0.4 |
| BWA | 32.18 | 168 eP | 03 58.80 0.3 |
| CAN | 33.17 | 167 eP | 04 07.00 -0.1 |
| COOL | 33.39 | 211 iPd | 04 09.10 0.0 |
| | 0.5s | 19.00nm | 5.2mb |
| NWAO | 37.07 | 214 eP | 04 51.00 10.7X |
| | 0.5s | 8.00nm | |
| QIZ | 37.34 | 307 eP | 04 42.70 -0.1 |
| SSE | 38.57 | 333 P | 04 53.50 0.6 |
| PP1 | 40.33 | 273 eP | 05 08.00 0.2 |
| WHN | 41.68 | 325 eP | 05 20.00 1.4 |
| LOE | 43.39 | 299 eP | 05 32.80 0.0 |
| GYA | 43.95 | 314 P | 05 38.60 1.2 |
| NST | 44.14 | 296 eP | 05 49.00 10.2X |
| TIA | 44.69 | 333 eP | 05 42.60 -0.5 |
| CHG | 46.38 | 299 iPd | 05 57.90 1.2 |
| | 1.1s | 18.67nm | 4.9mb |
| XAN | 47.37 | 324 iPc | 06 04.00 -0.4 |
| TIY | 48.15 | 330 eP | 06 06.80 -3.6X |
| BJI | 48.28 | 335 eP | 06 10.50 -0.7 |
| MDJ | 48.33 | 349 eP | 06 10.50 -1.1 |
| CN2 | 48.46 | 345 eP | 06 11.00 -1.6 |
| CD2 | 48.65 | 317 eP | 06 14.80 0.4 |
| HHC | 51.01 | 332 eP | 06 32.00 -0.3 |
| BTO | 51.57 | 330 eP | 06 36.80 0.3 |
| LZH | 51.83 | 322 eP | 06 39.00 0.3 |
| | 1.5s | 44.00nm | 5.2mb |
| | | pP | 06 46.00 23kmX |
| GTA | 56.40 | 323 P | 07 12.20 0.1 |
| | | pP | 07 20.70 28kmX |
| GUN | 60.91 | 304 P | 07 44.30 0.3 |
| | 0.6s | 12.00nm | 5.2mb |
| PKI | 61.18 | 304 P | 07 45.60 -0.2 |
| KKN | 61.36 | 304 P | 07 47.20 0.3 |
| | 0.9s | 18.00nm | 5.2mb |
| DMN | 61.45 | 304 P | 07 48.00 0.5 |
| GKN | 61.97 | 304 P | 07 51.10 0.2 |
| KOD | 64.26 | 283 eP | 08 07.00 0.6 |
| HYB | 64.47 | 291 eP | 08 06.00 -1.4 |
| GBA | 64.81 | 286 P | 08 07.50 -2.0 |
| | 0.6s | 5.70nm | 4.8mb |
| WMQ | 66.38 | 321 P | 08 20.00 0.7 |
| MHI | 84.60 | 307 eP | 10 04.00 1.0 |
| INK | 91.12 | 22 eP | 10 32.00 -1.5 |
| KIC | 145.36 | 277 PKP | 17 08.18 -0.2 |
| | 0.9s | 46.00nm | |
| CNCB | 145.59 | 126 PKP | 17 10.00 0.6 |
| TIC | 145.62 | 277 PKP | 17 08.84 0.1 |
| LPB | 145.64 | 125 ePKP | 17 16.00 6.7X |
| LIC | 145.66 | 277 PKP | 17 08.02 -0.8 |
| ZOBO | 145.75 | 125 iPKPd | 17 10.00 0.3 |
| CCH | 146.74 | 128 ePKP | 17 14.60 3.7X |
| S.D. = 1.0 on 51 of 57 obs. | | | |

* FEB 13, 1989 23h 13m 03.92±1.08s
 19.258 S ± 12.3km 169.079 E ± 11.2km
 DEPTH = 160.7 ± 9.2 km
 4.9mb (6 obs.)
 VANUATU ISLANDS (186)

| | | | | | |
|-----|------|---------|----|-------|-----|
| PVC | 1.68 | 334 iPc | 13 | 36.90 | 0.4 |
| | | | | | |

| | | | | | | |
|------|-------|----------|-----|-------|-------|--------|
| CTA | 45.57 | 175 | iPc | 52 | 05.00 | -0.7 |
| | 1.6s | 401.67nm | | | | 6.1mb |
| | | | iS | 58 | 50.00 | |
| WB5 | 45.91 | 191 | iPc | 52 | 17.90 | 9.5X |
| WB2 | 45.98 | 191 | iPc | 52 | 17.90 | 9.0X |
| WRA | 45.98 | 191 | Pd | 52 | 09.00 | 0.1 |
| | 0.9s | 115.00nm | | | | 5.8mb |
| QIS | 45.98 | 184 | eP | 52 | 08.00 | -0.9 |
| PSI | 47.70 | 249 | ePd | 52 | 23.60 | 1.0 |
| | 0.8s | 37.80nm | | | | 5.5mb |
| WMO | 47.70 | 307 | eP | 52 | 21.00 | -1.4 |
| Z | 22s | 2.70um | | | | 5.2Msz |
| | | S | 59 | 14.00 | | |
| ASPA | 49.70 | 190 | iPc | 52 | 37.20 | -0.7 |
| | 0.7s | 36.00nm | | | | 5.5mb |
| GUN | 50.25 | 286 | P | 52 | 42.60 | 0.0 |
| PKI | 50.73 | 286 | P | 52 | 45.40 | -0.8 |
| | 0.9s | 42.00nm | | | | 5.4mb |
| KKN | 50.80 | 286 | P | 52 | 46.00 | -0.6 |
| DMN | 50.99 | 286 | P | 52 | 47.60 | -0.5 |
| GKN | 51.31 | 286 | P | 52 | 50.00 | -0.4 |
| MBL | 51.46 | 207 | iPd | 52 | 51.50 | 0.2 |
| | 1.4s | 9.00nm | | | | 4.5mb |
| RMO | 52.15 | 173 | eP | 52 | 55.00 | -1.4 |

| | | | | | |
|-----|-------|--------|----|-------|------|
| RMO | 52.15 | 173 eP | 52 | 55.00 | -1.4 |
|-----|-------|--------|----|-------|------|

| | | | | | | |
|------|-------|-----|---------|----|-------|--------|
| WARB | 53.73 | 198 | eP | 53 | 12.00 | -7.1X |
| HON | 54.32 | 81 | P | 53 | 00.10 | -12.7X |
| Z | 20s | | 7.07um | | | 5.7msz |
| TTA | 54.57 | 30 | P | 53 | 13.00 | -1.1 |
| | 1.4s | | 53.98nm | | | 5.4mb |
| NANU | 54.58 | 211 | eP | 53 | 16.50 | 2.1 |
| KDC | 55.41 | 36 | P | 53 | 19.80 | -0.3 |
| IMA | 56.27 | 26 | eP | 53 | 26.50 | 0.1 |
| | 1.7s | | 55.60nm | | | 5.3mb |
| KSH | 56.62 | 302 | eP | 53 | 31.50 | 2.3 |
| MEKA | 56.85 | 206 | eP | 53 | 30.00 | -0.8 |
| | 0.7s | | 14.00nm | | | 5.1mb |
| CMS | 56.87 | 177 | eP | 53 | 31.00 | 0.2 |
| STK | 57.18 | 181 | iPd | 53 | 32.90 | -0.1 |
| PMR | 57.52 | 32 | eP | 53 | 33.00 | -2.1 |
| | 1.0s | | 50.00nm | | | 5.5mb |
| Z | 19s | | 2.50um | | | 5.3msz |
| NDI | 57.55 | 289 | iPd | 53 | 35.00 | -0.8 |
| | 0.9s | | 88.24nm | | | 5.8mb |
| FORR | 57.82 | 195 | iPd | 53 | 36.80 | -0.7 |
| | 0.3s | | 32.00nm | | | 5.0mb |
| FBA | 58.49 | 28 | P | 53 | 40.40 | -1.5 |
| | 0.7s | | 10.17nm | | | 5.0mb |
| COOL | 59.79 | 201 | eP | 53 | 50.00 | -1.3 |

| | | | | | | |
|------|-------|---------|-----|-------|-------|--------|
| DWR | 59.97 | 174 | eP | 53 | 52.70 | -0.3 |
| ADE | 60.36 | 184 | iPc | 53 | 55.20 | 0.1 |
| CAN | 60.91 | 174 | iPc | 53 | 58.10 | -0.7 |
| CNB | 60.94 | 174 | eP | 53 | 57.00 | -2.1 |
| BAL | 61.13 | 205 | eP | 54 | 00.00 | -0.4 |
| | 0.7s | 26.00nm | | | | 5.5mb |
| KLB | 61.62 | 204 | eP | 54 | 01.00 | -2.7 |
| | 1.0s | 41.00nm | | | | 5.5mb |
| GBA | 61.96 | 272 | P | 54 | 07.00 | 0.7 |
| | 1.5s | 74.60nm | | | | 5.6mb |
| MUN | 62.54 | 205 | eP | 54 | 07.00 | -2.8 |
| TOO | 62.91 | 177 | eP | 54 | 12.00 | -0.2 |
| NWAO | 63.01 | 204 | eP | 54 | 13.00 | 0.1 |
| | 0.7s | 17.00nm | | | | 5.3mb |
| Z | 20s | 0.60um | | | | 4.8MsZ |
| N | 20s | 0.40um | | | | |
| E | 20s | 0.40um | | | | |
| KOD | 63.23 | 269 | eP | 54 | 15.10 | 0.0 |
| POO | 63.44 | 279 | iPd | 54 | 16.00 | -0.1 |
| RKG | 64.12 | 203 | eP | 54 | 24.00 | 3.8X |
| BOM | 64.24 | 280 | iPd | 54 | 22.30 | 1.0 |
| | | eS | 02 | 57.70 | | |
| INK | 64.24 | 24 | eP | 54 | 19.50 | -1.1 |
| | 0.6s | 16.00nm | | | | 5.3mb |
| QUE | 65.81 | 293 | eP | 54 | 30.70 | -0.9 |
| MBC | 67.23 | 15 | eP | 54 | 39.00 | -0.7 |
| | 0.7s | 13.00nm | | | | 5.2mb |
| MHI | 70.01 | 301 | iPd | 54 | 59.00 | 1.3 |
| | | eS | 04 | 19.00 | | |
| KRP | 70.39 | 153 | P | 54 | 59.10 | -0.5 |
| ALE | 71.42 | 3 | eP | 55 | 05.00 | -0.3 |
| | 1.1s | 25.00nm | | | | 5.2mb |
| YKA | 73.29 | 28 | P | 55 | 16.40 | -0.2 |
| YKC | 73.35 | 28 | eP | 55 | 15.50 | -1.5 |
| KEV | 74.48 | 341 | eP | 55 | 24.00 | 0.6 |
| GMW | 74.55 | 44 | P | 55 | 24.30 | 0.0 |
| BMV | 74.65 | 46 | P | 55 | 25.20 | 0.3 |

13d 23h

| | | | | |
|------|-------|----------|----------|------|
| LON | 75.46 | 45 P | 55 28.80 | -0.8 |
| PNT | 75.85 | 42 ePd | 55 31.00 | -0.7 |
| SOD | 75.89 | 339 iP | 55 31.60 | 0.1 |
| FHC | 76.21 | 51 ePd | 55 33.90 | 0.0 |
| KJF | 77.25 | 336 eP | 55 39.00 | -0.1 |
| DPW | 77.29 | 43 P | 55 39.30 | -0.5 |
| WDC | 77.32 | 51 ePd | 55 40.20 | 0.2 |
| LBFM | 77.47 | 50 P | 55 41.10 | 0.0 |
| EDM | 77.81 | 37 iPd | 55 42.50 | 0.0 |
| ORV | 78.45 | 52 ePd | 55 46.20 | -0.1 |
| BRK | 78.58 | 54 e(P) | 55 47.00 | 0.1 |
| BKS | 78.59 | 54 ePc | 55 47.80 | 0.7 |
| Z | 20s | 2.40um | 5.5Msz | |
| N | 20s | 2.90um | | |
| E | 20s | 4.00um | | |
| | | e(S) | 05 52.00 | |
| | | eSS | 10 26.00 | |
| | | e(LQ) | 17 00.00 | |
| | | iLR | 19 15.00 | |
| SUF | 78.66 | 335 iP | 55 46.80 | -0.1 |
| | 0.5s | 31.60nm | 5.6mb | |
| TAB | 79.23 | 307 e(P) | 55 51.00 | 0.3 |
| MHC | 79.24 | 54 ePd | 55 51.00 | 0.2 |
| ARN | 79.32 | 54 P | 55 51.10 | 0.0 |
| PRS | 79.85 | 55 ePd | 55 54.20 | 0.3 |
| CMB | 79.87 | 53 ePd | 55 54.10 | 0.1 |
| SES | 80.39 | 39 eP | 55 56.00 | -0.5 |
| | 1.6s | 146.00nm | 5.7mb | |
| PRI | 80.45 | 55 eP | 55 57.80 | 0.5 |
| NUR | 80.52 | 334 eP | 55 57.00 | 0.1 |
| Z | 20s | 0.90um | 5.1Msz | |
| | | LR | 37 40.00 | |
| FRI | 80.79 | 53 ePd | 55 59.10 | 0.2 |
| SLY | 80.85 | 305 ePd | 55 58.50 | -0.7 |
| BCH | 81.28 | 55 P | 56 02.40 | 0.8 |
| LRM | 81.73 | 43 eP | 56 04.30 | 0.3 |
| TNP | 82.10 | 52 P | 56 05.50 | -0.5 |
| BHD | 82.67 | 303 ePc | 56 10.00 | 1.3 |
| FFC | 82.83 | 32 eP | 56 09.50 | 0.4 |
| | 1.2s | 66.00nm | 5.6mb | |
| UPP | 83.66 | 335 iP | 56 14.40 | 1.1 |
| GDH | 84.69 | 6 ePd | 56 19.00 | 0.7 |
| | 1.0s | 20.00nm | 5.3mb | |
| HFS | 84.90 | 337 eP | 56 18.40 | -1.1 |
| | 0.6s | 30.30nm | 5.7mb | |
| BW06 | 85.03 | 45 P | 56 20.80 | -0.1 |
| | 1.5s | 32.61nm | 5.3mb | |
| NRA0 | 85.21 | 338 P | 56 18.30 | -2.8 |
| MSU | 85.42 | 49 P | 56 23.50 | 0.6 |
| CLI | 87.40 | 321 eP | 56 33.00 | 0.8 |
| FRB | 87.64 | 13 eP | 56 33.00 | 0.1 |
| CFR | 87.68 | 320 eP | 56 34.00 | 0.5 |
| BBTK | 87.75 | 314 iPd | 56 34.00 | -0.1 |
| TLB | 88.09 | 319 ePc | 56 36.50 | 1.1 |
| VR1 | 88.11 | 321 ePd | 56 36.00 | 0.4 |
| PSN | 88.52 | 319 eP | 56 39.00 | 1.5 |
| ISR | 88.64 | 320 eP | 56 40.00 | 1.8 |
| MLR | 88.78 | 321 ePc | 56 40.00 | 1.1 |
| KRA | 89.13 | 327 ePd | 56 39.70 | -0.6 |
| | 1.5s | 91.00nm | 5.9mb | |
| | | e | 56 46.30 | |
| RSON | 89.16 | 32 P | 56 40.00 | -0.5 |
| | 1.2s | 53.10nm | 5.7mb | |
| Z | 22s | 2.96um | 5.7Msz | |
| GOL | 89.34 | 46 P | 56 41.70 | -0.2 |
| | 20s | 1.10um | 5.3Msz | |
| GLD | 89.41 | 46 P | 56 42.80 | 0.7 |
| | 1.5s | 87.50nm | 5.8mb | |
| Z | 20s | 2.00um | 5.5Msz | |
| SPC | 89.54 | 326 eP | 56 43.10 | 0.6 |
| CTT | 89.81 | 316 eP | 56 41.90 | -1.8 |
| JMB | 90.18 | 318 iP | 56 45.00 | -0.4 |
| KSP | 90.34 | 329 eP | 56 46.20 | 0.2 |
| | | e | 00 05.00 | |
| PVL | 90.48 | 319 iPd | 56 47.00 | 0.3 |
| PSZ | 90.54 | 325 eP | 56 46.80 | -0.3 |
| BZS | 91.11 | 323 eP | 56 49.00 | -0.6 |
| ALQ | 91.19 | 50 eP | 56 50.00 | -0.5 |
| | 1.3s | 21.63nm | 5.4mb | |
| Z | 20s | 1.15um | 5.3Msz | |
| KDZ | 91.36 | 318 eP | 56 52.00 | 1.1 |
| BRG | 91.38 | 330 eP | 56 50.20 | -0.6 |
| | 1.6s | 42.00nm | 5.6mb | |
| | | e | 00 33.10 | |
| SRO | 91.41 | 326 eP | 56 51.10 | 0.2 |
| CLL | 91.49 | 331 eP | 56 50.00 | -1.2 |
| | 1.7s | 41.00nm | 5.5mb | |

| | | | | |
|------------------------------------|--------|------------|--------------------|--------|
| PRU | 91.74 | 329 eP | 56 52.00 | -0.4 |
| | 1.6s | 37.50nm | 5.5mb | |
| ZST | 91.76 | 327 eP | 56 52.40 | -0.1 |
| BE0 | 92.25 | 323 eP | 56 54.50 | -0.3 |
| MMB | 92.41 | 319 iP | 56 55.00 | -0.7 |
| MOX | 92.58 | 331 eP | 56 55.00 | -1.3 |
| | | e | 00 35.00 | |
| KHC | 92.79 | 329 iPd | 56 57.30 | 0.0 |
| | 1.0s | 7.00nm | 5.0mb | |
| | | e | 00 17.50 | |
| VAY | 93.26 | 319 eP | 56 59.00 | -0.6 |
| GRF | 93.45 | 331 eP | 57 01.40 | 1.1 |
| | 1.4s | 39.00nm | 5.6mb | |
| SKO | 93.51 | 320 iP | 57 00.10 | -0.7 |
| | 1.8s | 124.00nm | 6.0mb | |
| KBA | 94.36 | 328 ePc | 57 04.50 | -0.3 |
| | 1.0s | 6.30nm | 5.0mb | |
| | | e | 57 15.00 | |
| OHR | 94.43 | 320 eP | 56 52.00 | -13.1X |
| CDF | 96.12 | 332 eP | 57 13.00 | 0.2 |
| ME0 | 96.59 | 47 eP | 57 14.60 | -0.4 |
| | 1.6s | 35.00nm | 5.6mb | |
| VAl | 97.40 | 329 P | 57 17.50 | -0.9 |
| AVF | 99.04 | 333 eP | 57 26.90 | 1.1 |
| | 0.8s | 8.00nm | 5.3mb | |
| SOI | 99.19 | 320 P | 57 27.50 | 0.9 |
| BNG | 118.05 | 290 ePKPc | 02 33.40 | 0.5 |
| | 1.0s | 10.00nm | 03 52.10 | |
| | | i | 59 27.00 | |
| CER | 130.51 | 247 iPd | 59 27.00 | -19.2X |
| | 0.3s | 6.00nm | 03 08.10 | 2.7 |
| KIC | 135.04 | 310 PKP | 03 28.00 | 1.1 |
| ARE | 147.04 | 81 ePKP | 03 33.50 | 1.7 |
| ZOBO | 149.96 | 78 PKP | 03 40.00 | |
| | | LR | 03 32.00 | 0.2 |
| LPB | 150.08 | 78 ePKP | 03 32.00 | 0.2 |
| | 1.4s | 232.56nm | 03 39.00 | |
| Z | 24s | 0.78um | 5.4MszX | |
| | | i | 54 10.00 | |
| | | LR | 03 36.50 | 5.5X |
| SAN | 150.17 | 113 ePKP | 03 36.50 | 5.4X |
| PEL | 150.19 | 112 iPKPd | 03 24.00 | -8.3X |
| CNCB | 150.29 | 79 PKP | 03 37.00 | 2.3 |
| CCH | 152.13 | 79 ePKP | 03 37.00 | 2.3 |
| | | S.D. = 1.1 | on 165 of 186 obs. | |
| FEB 13, 1989 23h 58m 19.37± 1.27s | | | | |
| 1.331 S ± 6.4km 127.442 E ± 10.2km | | | | |
| DEPTH = 58.8 ± 12.2 km | | | | |
| 5.0mb (9 obs.) | | | | |
| HALMAHERA (267) | | | | |
| AAI | 2.46 | 162 eP | 59 00.00 | 2.2 |
| | | eS | 59 25.00 | |
| MNI | 3.79 | 317 iPd | 59 16.40 | -0.2 |
| | | eS | 00 03.80 | |
| PCI | 7.62 | 273 iP | 00 08.40 | -1.8 |
| | | i(S) | 01 07.20 | |
| MKS | 8.85 | 244 iPc | 00 29.00 | 1.9 |
| TSM | 10.87 | 301 iPc | 01 12.90 | 18.1X |
| MTN | 12.01 | 162 eP | 01 10.00 | -0.1 |
| KNA | 14.39 | 175 eP | 01 40.00 | -1.4 |
| TRT | 16.05 | 246 ePd | 02 06.70 | 3.8X |
| WB5 | 19.64 | 160 eP | 02 44.50 | -1.7 |
| | | eS | 06 27.00 | |
| WRA | 19.69 | 160 Pc | 02 44.70 | -2.0 |
| | 0.5s | 7.30nm | 4.2mb | |
| WB2 | 19.70 | 160 eP | 02 44.50 | -2.3 |
| | | eS | 06 27.00 | |
| MBL | 21.06 | 200 eP | 03 00.00 | -0.8 |
| | 0.6s | 24.00nm | 4.7mb | |
| ASPA | 23.07 | 165 iPc | 03 21.80 | 1.1 |
| | 0.7s | 34.00nm | 4.9mb | |
| | | eS | 07 27.80 | |
| | | e | 07 46.00 | |
| NANU | 24.07 | 208 iPd | 03 30.80 | 0.4 |
| | 0.7s | 95.00nm | 5.4mb | |
| WARB | 24.72 | 182 eP | 03 31.10 | -5.6X |
| CTA | 26.19 | 137 iPc | 03 55.00 | 4.6X |
| | 1.1s | 25.32nm | 4.7mb | |
| PPI | 27.06 | 272 eP | 03 59.50 | 1.1 |
| QZH | 27.49 | 342 eP | 04 02.40 | 0.2 |
| FORR | 29.36 | 179 eP | 04 18.00 | -1.0 |
| STK | 33.19 | 158 iPc | 04 54.40 | 1.7 |
| WHN | 34.06 | 340 P | 05 01.50 | 1.3 |
| GVA | 34.14 | 325 eP | 05 01.40 | 0.4 |
| BWA | 38.31 | 151 eP | 05 40.10 | 3.9X |

| | | | | |
|-----------------------------------|-------|---------|----------|------|
| CD2 | 39.19 | 327 eP | 05 43.50 | 0.0 |
| XAN | 39.26 | 335 eP | 05 43.20 | -0.8 |
| CAN | 39.32 | 152 eP | 05 47.00 | 2.5 |
| TIY | 41.26 | 342 Pc | 06 00.60 | 0.1 |
| BJI | 42.44 | 347 eP | 06 09.50 | -0.5 |
| SNY | 43.10 | 356 eP | 06 14.80 | -0.5 |
| LZH | 43.23 | 332 eP | 06 17.50 | 0.7 |
| | 1.5s | 0.07nm | 2.2mb X | |
| SHL | 43.56 | 310 iP | 06 19.80 | 0.2 |
| HHC | 44.40 | 343 eP | 06 24.00 | -2.1 |
| MDJ | 45.79 | 2 eP | 06 37.00 | 0.1 |
| LSA | 46.39 | 315 Pd | 06 44.20 | 1.7 |
| GTA | 47.81 | 331 Pd | 06 53.30 | 0.2 |
| GUN | 49.36 | 309 Pd | 07 05.80 | 0.2 |
| KKN | 49.77 | 309 Pd | 07 08.70 | 0.2 |
| DMN | 49.82 | 309 Pd | 07 09.20 | 0.2 |
| | 0.7s | 42.00nm | 5.6mb | |
| GKN | 50.37 | 309 Pd | 07 13.00 | 0.0 |
| HYB | 51.63 | 293 iPd | 07 21.80 | -0.8 |
| | 1.0s | 60.00nm | 5.6mb | |
| | | e | 07 30.00 | |
| GBA | 51.73 | 288 P | 07 22.00 | -1.3 |
| | | e | 08 36.00 | |
| NDI | 56.57 | 306 eP | 07 57.00 | -1.6 |
| | 0.6s | 15.00nm | 5.2mb | |
| WMQ | 57.28 | 327 iPc | 08 03.30 | -0.2 |
| KSH | 62.12 | 317 eP | 08 38.50 | 1.6 |
| MHI | 73.16 | 309 iPd | 09 46.20 | 0.1 |
| AVY | 79.84 | 251 iPd | 10 24.46 | 0.6 |
| SPA | 88.68 | 180 ePd | 11 09.10 | 1.6 |
| | 1.0s | 9.50nm | 5.0mb | |
| Z | 18s | 5.92um | 6.1MszX | |
| | | e | 11 26.90 | |
| S.D. = 1.3 on 42 of 47 obs. | | | | |
| FEB 14, 1989 00h 46m 59.94± 1.17s | | | | |
| 45.922 N ± 5.6km 1.456 W ± 10.5km | | | | |
| DEPTH = 10.0km (geophysicist) | | | | |
| FRANCE (538) | | | | |
| ML 4.0 (LDG). Felt (III) at | | | | |
| Dolus-d'Oleron. | | | | |
| MFF | 1.14 | 53 Pn | 47 23.00 | 1.8 |
| | | Pg | 47 23.40 | |
| | | Sg | 47 37.20 | |
| LFF | 1.83 | 122 Pn | 47 32.50 | 0.8 |
| | | Pg | 47 34.40 | |
| | | Sg | 47 59.00 | |
| LSF | 2.10 | 80 Pn | 47 37.00 | 1.4 |
| | | Pg | 47 40.50 | |
| | | Sg | 48 06.50 | |
| LPF | 2.13 | 8 Pn | 47 37.00 | 1.0 |
| | | Pg | 47 40.80 | |
| | | Sg | 48 08.40 | |
| RJF | 2.18 | 105 Pn | 47 37.70 | 1.0 |
| | | Pg | 47 42.00 | |
| | | Sg | 48 08.00 | |
| LPO | 2.24 | 123 Pn | 47 37.90 | 0.3 |
| | | Pg | 47 41.40 | |
| | | Sg | 48 11.40 | |
| GRR | 2.50 | 9 Pn | 47 41.50 | 0.2 |
| | | Pg | 47 48.20 | |
| | | Sg | 48 20.00 | |
| TCF | 2.58 | 81 Pn | 47 43.00 | 0.6 |
| | | Pg | 48 22.80 | |
| CAF | 2.67 | 111 Pn | 47 44.60 | 0.8 |
| | | Pg | 47 51.00 | |
| | | Sg | 48 24.60 | |
| MAF | 2.82 | 82 Pn | 47 46.20 | 0.4 |
| | | Pg | 47 54.00 | |
| | | Sg | 48 28.20 | |
| LDF | 2.82 | 18 Pn | 47 46.10 | 0.2 |
| | | Pg | 47 54.80 | |
| | | Sg | 48 30.80 | |
| FLN | 2.92 | 13 Pn | 47 47.30 | 0.1 |
| | | Sg | 48 33.80 | |
| BGF | 3.05 | 76 Pn | 47 49.20 | 0.1 |
| | | Pg | 47 59.00 | |
| | | Sg | 48 37.00 | |
| HYF | 3.13 | 63 Pn | 47 59.60 | 9.4X |
| | | Sg | 48 39.00 | |
| EPF | 3.16 | 155 Pn | 47 50.30 | -0.5 |
| | | Pg | 47 59.60 | |
| | | Sg | 48 42.40 | |
| AVF | | | | |

14d 00h

SSF 3.61 70 Pn 47 57.20 0.1
Pg 48 07.50
Sg 48 54.00
SMF 3.74 77 Pn 47 58.60 -0.4
Pg 48 11.20
Sg 48 58.00
LBF 3.90 72 Pn 48 00.70 -0.6
Pg 48 13.20
Sg 49 03.60
LOR 3.90 68 Pn 48 00.40 -0.9
Pg 48 14.00
Sg 49 03.20
HAU 5.73 66 Pn 48 26.00 -1.2
Pg 48 48.00
DOU 5.82 42 iP 48 27.10 -1.2
iS 49 30.10
SNF 5.98 38 eP 48 56.30 25.7X
LRG 6.09 111 Pn 48 31.40 -0.8
FRF 6.23 109 Pn 48 32.90 -1.3
WLF 6.35 51 eP 48 59.70 24.0X
MEM 6.84 44 P 48 40.80 -1.9
S.D. = 1.0 on 24 of 27 obs.

* FEB 14, 1989 01h 11m 28.92±0.83s
64.877 S ±11.1km 177.146 E ±19.8km
DEPTH = 10.0km (geophysicist)
5.0mb (5 obs.) 4.7Msz (2 obs.)
BALLENY ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 21C
Centroid Location:
Origin Time 01:11:37.6 0.7
Lat 65.21S 0.12 Lon 176.66E 0.21
Dep 15.0 FIX Half-duration 1.7
Moment Tensor: Scale 10**17 Nm
Mrr=-0.10 0.08 Mtt= 1.06 0.11
Mff=-0.96 0.06 Mrt= 0.09 0.21
Mrf= 0.26 0.27 Mtf=-0.11 0.08
Principal Axes:
T Val= 1.07 Plg= 4 Azm= 3
N -0.03 74 259
P -1.04 15 94
Best Double Couple: Mo=1.1*10**17
NP1: Strike=137 Dip=76 Slip= -8
NP2: 229 82 -166

SBA 13.41 189 Pd 14 42.70 1.2
MSZ 20.89 341 P 16 15.00 1.7
SPA 25.27 180 e(P) 16 57.00 0.5
CNB 33.97 317 eP 18 16.00 1.6
CAN 34.08 316 eP 18 17.00 1.8
BWA 35.08 316 eP 18 16.20 -7.7X
STK 39.58 309 eP 19 05.00 3.4X
NWA0 47.99 282 eP 20 09.00 -0.5
0.8s 7.00nm 4.8mb
Z 20s 1.20um 4.9Msz
N 20s 1.00um
E 20s 1.10um

COOL 48.16 287 eP 20 10.00 -0.8
0.8s 14.00nm 5.1mb
CTA 49.22 320 iPc 20 20.30 1.2
1.3s 67.31nm 5.5mb
iS 27 30.00
ASPA 49.75 305 iPc 20 23.10 -0.1
1.4s 24.00nm 5.0mb
Z 19s 0.49um 4.5Msz

LR 39 36.00
OIS 50.74 312 eP 20 30.00 -0.7
WB2 53.03 307 eP 20 47.10 -0.9
WRA 53.04 307 Pc 20 46.90 -1.1
0.9s 11.10nm 4.8mb
WB5 53.09 307 eP 20 47.10 -1.3
MTN 60.73 306 eP 21 42.00 -0.7
ZOB0 85.40 119 P 24 07.50 -0.7
PNT 123.92 45 ePKP 30 33.00 5.5X
YKA 136.67 39 PKP 30 58.20 6.9X
INK 137.39 25 ePKP 30 47.00 -5.5X
MBC 146.35 23 ePKP 31 07.00 -1.1
0.7s 37.00nm

BBTK 147.59 237 ePKP 31 02.50 -8.8X
SCH 147.78 77 ePKP 31 15.00 4.0X
VAY 152.28 224 ePKP 31 23.00 4.8X
FRB 152.63 62 ePKP 31 24.00 6.0X
SKO 153.21 223 ePKP 31 22.50 3.0X
CFR 153.91 236 ePKP 31 42.00 21.6X
S.D. = 1.2 on 16 of 27 obs.

? FEB 14, 1989 02h 24m 24.48±3.63s
6.176 S ±29.6km 131.432 E ±39.4km
DEPTH = 33.0km (normal)
4.1mb (2 obs.)

TANIMBAR ISLANDS REGION (281)

TLE 1.42 68 iPc 24 48.10 0.0
iS 25 11.20
MTN 6.63 183 iPd 26 05.50 3.3X
eS 27 25.00
KNA 9.87 195 eP 26 47.00 -0.2
WB5 13.92 168 eP 27 41.80 0.1
eS 30 20.00
WRA 13.97 169 P 27 47.00 4.5X
0.3s 0.80nm 3.9mb
WB2 13.98 169 eP 27 41.80 -0.7
eS 30 20.00
ASPA 17.55 172 eP 28 29.20 0.8
0.5s 13.00nm 4.3mb
SPC 108.45 320 ePdiff 38 31.40 -14.2X
i 38 32.60
i(Sg) 38 50.10

S.D. = 0.8 on 5 of 8 obs.

FEB 14, 1989 03h 59m 24.16±2.29s
25.588 N ±5.5km 142.477 E ±6.3km
DEPTH = 77.2 ±20.1 km
5.0mb (16 obs.)

VOLCANO ISLANDS REGION (213)

MAT 11.51 343 (P) 02 10.00 2.5
1.2s 20.31nm 4.9mb
(S) 04 16.00
SSE 19.52 291 eP 03 47.00 -0.9
Z 14s 0.40um
E 10s 0.30um
epP 04 12.00 153kmX
eS 07 30.00
MDJ 21.66 334 eP 04 10.50 0.8
SNY 22.49 321 eP 04 18.00 0.1
TIA 24.13 302 Pd 04 32.40 -1.5
WHN 25.27 288 eP 04 44.50 -0.3
TIY 28.16 303 P 05 09.80 -1.4
E 11s 0.20um

XAN 30.20 294 P 05 27.50 -2.0
GYA 32.13 280 P 05 47.20 0.7
CD2 34.40 288 eP 06 05.00 -1.1
LZH 34.58 297 eP 06 06.50 -1.2
2.0s 44.00nm 5.0mb
KMI 35.82 278 Pd 06 19.50 1.1
GTA 38.18 302 eP 06 36.00 -2.0
CHG 40.73 270 eP 07 01.30 2.2
CTA 45.55 175 iPd 07 38.10 0.1
1.2s 67.19nm 5.4mb

WB5 45.88 191 eP 07 40.20 -0.4
WB2 45.94 191 eP 07 40.20 -0.9
WRA 45.94 191 Pc 07 40.80 -0.3
1.3s 63.40nm 5.4mb
PSI 47.64 249 ePd 07 55.60 0.9
0.6s 10.10nm 4.9mb
WMO 47.68 307 eP 07 55.40 0.6
GUN 50.21 286 P 08 15.30 0.5
0.4s 13.00nm 5.3mb

PKI 50.69 286 P 08 18.10 -0.3
KKN 50.75 286 P 08 18.80 0.1
0.4s 4.00nm 4.8mb
DMN 50.94 286 P 08 20.40 0.2
0.6s 14.00nm 5.2mb
GKN 51.27 286 P 08 22.60 0.0
WARB 53.69 198 eP 08 33.30 -7.0X
HON 54.38 81 P 08 30.00 -15.5X

Z 20s 0.96um 4.9Msz
SVW 54.41 32 eP 08 45.00 -0.3
CMS 56.84 177 eP 09 04.00 1.0
STK 57.15 181 eP 09 05.00 -0.1
PMR 57.57 32 eP 09 06.20 -1.6
1.2s 25.40nm 5.2mb
FORR 57.78 195 iPc 09 09.10 -0.4
0.4s 32.00nm 5.8mb

FBA 58.54 28 P 09 11.90 -2.6
BWA 59.95 174 eP 09 24.30 -0.3
CAN 60.89 174 eP 09 30.50 -0.5
INK 64.29 24 eP 09 52.00 -1.1
MBC 67.27 15 eP 10 11.00 -1.1
MHI 69.98 301 eP 10 31.00 1.4
ALE 71.45 3 eP 10 38.00 0.4

1.2s 21.00nm 4.9mb
YKA 73.34 28 P 10 48.70 -0.2
KEV 74.49 341 eP 11 03.00 7.5X
GMW 74.61 44 P 10 56.50 -0.1
SOD 75.89 339 iP 11 04.20 0.6
PNT 75.91 42 eP 11 04.00 0.0
KJF 77.25 336 eP 11 12.00 0.9
EDM 77.86 37 ePc 11 14.50 -0.3
MIN 78.12 51 ePd 11 16.00 -0.6
ORV 78.51 52 eP 11 18.30 -0.3
SUF 78.66 335 iP 11 19.20 0.3

0.4s 6.40nm 4.9mb
CMB 79.93 53 ePd 11 26.60 0.3
SES 80.44 38 eP 11 29.00 0.2
NUR 80.52 334 iP 11 29.90 1.0
FRI 80.85 53 ePd 11 31.50 0.4
KVN 81.12 51 P 11 32.70 -0.1
LRM 81.79 43 eP 11 36.60 0.4
FFC 82.88 32 iPc 11 41.80 0.5

1.1s 28.00nm 5.1mb
BW06 85.09 45 P 11 53.40 0.3
1.0s 4.53nm 4.4mb
NRA0 85.22 338 P 11 52.60 -0.4
FRB 87.68 13 eP 12 05.00 0.0
VRI 88.10 321 eP 12 08.50 1.1
RSON 89.22 32 P 12 12.80 0.2

1.1s 13.08nm 5.1mb
SPC 89.53 326 e(P) 12 13.40 -1.0
KSP 90.33 329 eP 12 17.50 -0.3
ALO 91.25 50 eP 12 23.30 0.7
1.1s 6.96nm 4.9mb
SRO 91.40 326 eP 12 23.60 0.8
ZST 91.75 327 eP 12 26.20 1.8
KHC 92.79 329 P 12 29.60 0.4
SKO 93.50 320 eP 12 30.30 -2.3
i 12 34.00

ARE 147.10 81 ePKP 19 03.00 4.4X
ZOB0 150.01 78 PKPc 19 09.80 6.3X
1.0s 10.50nm
LPB 150.14 78 PKP 19 05.00 1.5
1.2s 62.50nm
SAN 150.21 113 ePKP 19 09.50 6.8X
PEL 150.22 112 iPcPd 19 08.80 6.1X
CNB0 150.35 79 PKP 19 06.00 2.0
CCH 152.19 79 ePKP 19 15.00 8.6X

S.D. = 1.1 on 67 of 75 obs.

? FEB 14, 1989 04h 03m 07.42±6.09s
10.574 S ±52.8km 124.390 E ±29.7km
DEPTH = 33.0km (normal)

TIMOR (289)

MTN 6.98 110 eP 04 50.00 0.0
WB5 13.35 135 eP 06 17.50 0.4
WRA 13.37 135 Pd 06 17.00 -0.4
0.5s 18.60nm 5.3mb
WB2 13.38 135 eP 06 17.50 -0.1
WARB 15.67 172 eP 06 58.30 10.8X
ASPA 15.87 146 eP 06 50.20 0.1
0.4s 43.00nm 5.0mb
Z 20s 0.24um

e 08 11.00
LR 27 02.70
OIS 17.69 126 iPc 06 45.60 -27.4X
e 07 41.00
FORR 20.47 171 eP 07 45.00 0.0
BFD 31.13 151 eP 09 15.00 -10.3X
S.D. = 0.3 on 6 of 9 obs.

& FEB 14, 1989 04h 56m 23.80s
37.833 N 122.598 W
DEPTH = 7.0km

CENTRAL CALIFORNIA (39)

<BRK>. ML 2.8 (BRK).
Mo=8.7*10**12 Nm (BRK).
BRK 0.27 81 iPc 56 29.20 -0.1
iS 56 33.00
BKS 0.29 81 iPc 56 29.80 0.1
iS 56 34.30
ZSP 0.29 67 ePc 56 30.30 0.5
iS 56 35.80
PCC 0.37 153 iPd 56 31.10 -0.3
iS 56 36.50
NWRM 0.66 340 eP 56 36.00 -1.1
MHC 0.90 123 eP 56 40.80 -0.7
iS 56 54.30

14d 04h

GCC 0.93 149 eP 56 40.50 -1.4
 eS 56 55.50
 ARN 0.97 119 eP 56 41.50 -1.1
 SAO 1.41 139 iPd 56 46.93 -2.9
 CMB 1.76 83 iPc 56 54.40 -0.6
 iS 57 16.60
 PRS 1.79 146 e(P) 56 57.20 1.8
 LLA 1.79 132 ePc 56 57.30 1.9
 KVN 3.74 70 eP 57 24.00 0.7
 13 obs. associated

* FEB 14, 1989 05h 36m 12.39±0.74s
 16.893 N ±12.4km 62.356 W ±11.2km
 DEPTH = 33.0km (normal)
 LEEWARD ISLANDS (92)
 ML 3.3 (FDF).

ANG 0.57 63 eP 36 24.84 0.9
 eS 36 35.13
 SKI 0.57 320 eP 36 24.10 0.1
 eS 36 26.68
 BSK 0.65 314 eP 36 25.32 0.3
 eS 36 38.68
 SKDB 0.66 319 eP 36 24.64 -0.6
 eS 36 38.44
 SEG 0.95 121 eP 36 29.97 0.6
 S 36 47.80
 PAG 1.08 143 eP 36 32.58 1.3
 S 36 54.60
 SFG 1.28 120 eP 36 33.34 -0.7
 DEG 1.37 115 eP 36 33.71 -1.7
 MGG 1.39 134 eP 36 35.56 -0.1
 S 36 57.70

S.D. = 1.1 on 9 of 9 obs.

FEB 14, 1989 06h 20m 21.33±0.12s
 10.447 S ±3.2km 161.372 E ±2.9km
 DEPTH = 31.9km (geophysicist)
 6.0mb (57 obs.) 6.4Msz (38 obs.)
 SOLOMON ISLANDS (193)

Ms 6.4 (PAS), 6.2 (BRK).
 Mo=5.10±18 Nm (PPT). Felt (IV)
 at Honiara, Guadalcanal. Two
 events about 2 seconds apart.
 Depth from broadband
 displacement seismograms,
 based on second event.
 FAULT PLANE SOLUTION: P-Waves
 NP1: Strike=359 Dip=87 Slip=-90
 NP2: 179 3 -90
 Principal Axes:

T Plg=42 Azm=89
 P 48 269
 Comment: The focal mechanism is
 moderately well controlled and
 corresponds to normal
 faulting. The preferred fault
 plane is NP1.

RADIATED ENERGY
 No. of sta: 10 Focal mech. F
 Energy 9.6±2.1*10**13 Nm
 MOMENT TENSOR SOLUTION
 No. of sta: 13
 Moment Tensor: Scale 10**18 Nm
 Mrr=-0.28 Mtt=0.09
 Mff=-0.38 Mrt=-0.64
 Mrf=-5.22 Mtf=1.04

Principal axes:
 T Val= 5.45 Plg=45 Azm=108
 N -0.15 11 6
 P -5.29 43 265
 Best Double Couple: Mo=5.4*10**18
 NP1: Strike=282 Dip=12 Slip= 6
 NP2: 186 89 101

CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 16S, 41C M.W.: 13S, 27C
 Centroid Location:
 Origin Time 06:20:28.8 0.2
 Lat 10.46S 0.02 Lon 161.72E 0.02
 Dep 28.0 0.9 Half-duration 6.3
 Moment Tensor: Scale 10**18 Nm
 Mrr=-0.77 0.03 Mtt=-0.25 0.03
 Mff=1.02 0.04 Mrt=-0.09 0.08
 Mrf=-5.45 0.19 Mtf=1.58 0.03
 Principal Axes:
 T Val= 5.92 Plg=38 Azm=105

N -0.33 16 2
 P -5.58 47 254
 Best Double Couple: Mo=5.8*10**18
 NP1: Strike=255 Dip=16 Slip=-17
 NP2: 1 85 -106

HNR 1.73 306 eP 20 55.00 5.4X
 eS 21 22.00
 PAA 7.13 305 eP 22 04.00 -2.2
 eS 23 34.00
 PVC 9.89 138 iPc 22 42.50 -1.9
 iS 24 30.00
 RAB 11.04 304 eP 23 02.00 1.8
 iS 25 28.00
 DZM 12.54 158 iPd 23 19.10 -1.4
 iS 25 13.60
 PMG 14.04 273 iPd 23 46.50 6.2X
 1.4s 469.77nm 6.0mb X
 LAT 14.70 284 eP 23 54.00 5.1X
 CTA 17.44 235 iPd- 24 27.20 3.3X
 iS 27 46.00
 CTAO 17.44 235 ePd 24 26.59 2.7
 ed 24 28.42
 MNDI 18.04 282 eP 24 37.00 5.4X
 BRS 18.70 204 P 24 38.50 -1.0
 e 26 01.00
 eS 27 36.00
 e 28 00.00
 RMQ 19.92 215 iPd 24 54.80 1.4
 1.1s 744.00nm 5.9mb
 COO 21.89 202 iPd 25 14.80 1.3
 e 25 43.00 143kmX
 e 25 52.00
 e 26 37.00
 QIS 23.23 242 iPd 25 28.50 1.6
 e 29 58.00
 RIV 25.09 200 iPc 25 46.10 1.5
 e 25 58.00 47kmX
 eS 30 08.00
 CMS 25.41 212 iPd 25 49.50 1.8
 0.6s 352.00nm 6.1mb
 e 26 20.00 148kmX
 BWA 26.65 204 iPd 25 58.10 -1.1
 CNB 27.06 202 iPc 26 03.50 0.5
 e 26 28.00 113kmX
 CAN 27.20 203 iPd 26 04.20 -0.1
 WB5 27.66 247 iPd 26 08.90 0.3
 e 58 37.50
 WRA 27.70 247 Pc 26 08.80 -0.1
 0.7s 132.60nm 5.7mb
 STK 28.10 218 iPd 26 13.20 0.8
 0.8s 83.00nm 5.5mb
 e 26 37.00 109kmX
 e 27 02.00
 e 27 13.00
 TLE 28.73 277 ePd 26 20.10 1.9
 0.9s 8.50nm 4.4mb X
 GUA 28.89 325 eP 26 19.70 0.1
 1.3s 1323.00nm 6.5mb
 Z 22s 65.48um 6.2Msz
 GUMO 28.96 325 P 26 20.00 -0.2
 PJG 28.96 325 eP 26 20.20 0.0
 ASPA 29.30 240 iPd 26 22.10 -1.2
 1.1s 222.00nm 5.8mb
 Z 20s 285.94um 6.9Msz
 LR 37 13.50
 MTN 29.71 262 iPd 26 27.20 0.2
 KRP 30.18 157 P 26 30.70 -0.2
 0.5s 76.00nm 5.8mb
 PP 27 54.00
 TOO 30.56 205 iPd 26 34.80 0.5
 e 26 44.00 32kmX
 ADE 31.98 217 iPd 26 47.10 0.2
 1.0s 410.00nm 6.3mb
 KNA 32.17 257 iPd 26 49.10 0.5
 1.0s 2381.00nm 7.0mb X
 WEL 32.91 161 P 26 54.00 -0.8
 1.0s 416.00nm 6.3mb
 Z 20s 19.86um 5.8Msz
 N 20s 22.69um
 E 20s 15.60um
 PP 28 10.00
 S 32 08.00
 SS 34 22.00
 AAI 33.58 279 ePd 27 02.20 1.2
 MSZ 34.56 172 P 27 08.20 -0.9
 0.8s 173.00nm 6.0mb

TAU 34.59 198 Pd 27 10.00 0.7
 WARB 36.35 240 iPd 27 17.00 -7.5X
 FORR 36.95 232 iPd 27 30.00 0.6
 0.4s 136.00nm 6.2mb
 RAR 38.78 111 P 27 41.00 -4.0X
 S 33 40.00
 DAV 39.67 295 eP- 27 54.00 1.5
 MKS 41.81 274 iPc 28 11.60 1.5
 1.2s 677.10nm 6.3mb
 COOL 42.47 235 iPd 28 15.70 0.4
 0.7s 247.00nm 6.0mb
 MEKA 43.45 242 eP 28 24.00 0.7
 0.7s 248.00nm 6.1mb
 BKB2 45.12 279 e(P) 28 42.00 5.1X
 NANU 45.40 249 iPd 28 39.90 0.8
 0.4s 72.00nm 5.9mb
 KLB 45.44 236 iPd 28 39.30 0.0
 0.6s 85.00nm 5.8mb
 TSM 45.51 287 ePd 28 43.10 3.1X
 BAL 46.02 237 eP 28 44.00 0.1
 0.7s 337.00nm 6.4mb
 MRWA 46.25 239 eP 28 46.00 0.3
 0.4s 23.00nm 5.5mb
 NWA0 46.28 234 ePd 28 46.00 0.2
 0.8s 311.00nm 6.3mb
 ed 28 48.21 7kmX
 ed 28 56.16
 ec 29 00.63
 MUN 46.82 236 iPd 28 50.60 0.5
 1.0s 480.00nm 6.4mb
 Z 20s 92.60um 6.7Msz
 RKG 46.83 233 iPd 28 52.70 2.5
 0.8s 385.00nm 6.4mb
 QCP 47.08 301 eP 28 46.00 -6.4X
 AFR 47.82 104 iP 28 56.70 -1.5
 1.4s 220.00nm 6.0mb
 PAE 48.01 104 iP 28 58.10 -1.6
 1.4s 185.00nm 5.9mb
 PPT 48.01 104 iP 28 58.40 -1.3
 1.4s 185.00nm 5.9mb
 Z 20s 57.00um 6.5Msz
 PPN 48.15 104 iP 28 59.20 -1.6
 1.4s 95.00nm 5.6mb
 TRT 48.17 269 ePc 29 00.40 -0.6
 1.2s 410.10nm 6.3mb
 TVO 48.33 104 iP 29 01.00 -1.2
 1.4s 305.00nm 6.1mb
 BAG 48.38 303 ePd- 29 02.10 -0.7
 2.0s 600.00nm 6.3mb
 eS 36 00.00
 TBI 48.54 112 iP 29 02.70 -1.0
 1.2s 270.00nm 6.2mb
 PMO 49.61 101 iP 29 11.10 -0.9
 1.4s 320.00nm 6.2mb
 VAH 49.86 101 iP 29 12.70 -1.3
 1.4s 320.00nm 6.2mb
 TPT 49.88 101 iP 29 13.00 -1.1
 1.4s 270.00nm 6.1mb
 RUV 50.10 101 iP 29 14.60 -1.2
 1.4s 185.00nm 5.9mb
 KAGJ 50.68 326 eP 29 21.00 1.0
 WKYJ 50.72 332 P 29 20.70 0.4
 IJDJ 50.78 335 P 29 20.90 0.2
 CHJJ 50.83 337 P 29 21.00 -0.1
 HON 50.87 51 P 29 21.30 -0.3
 Z 20s 40.43um 6.4Msz
 OPA 51.08 51 iP 29 22.90 -0.3
 ipP 29 35.00 43kmX
 TKSJ 51.25 331 P 29 24.80 0.5
 MAJO 51.57 336 ePc 29 24.87 -1.8
 ec 29 26.36 5kmX
 ed 29 37.95
 ec 29 42.08
 MAT 51.57 336 iPd 29 25.90 -0.8
 1.3s 442.31nm 6.3mb
 Z 20s 13.83um 6.0Msz
 eS 36 46.00
 TSRJ 51.65 334 P 29 27.50 0.3
 KUMJ 51.74 327 P 29 28.20 0.2
 MTMJ 51.77 336 P 29 28.10 -0.2
 NIJJ 51.88 337 P 29 29.00 0.1
 HKL 51.91 53 P 29 29.00 -1.0
 YAMJ 52.32 339 eP 29 33.40 1.1
 YONJ 52.51 331 eP 29 33.60 -0.2
 ANP 52.56 313 iP- 29 38.00 3.6X
 iS 37 06.00
 OFUJ 52.58 341 P 29 34.20 0.0

| | | | | | | |
|------|-------|----------|-----|-------|---------|--------|
| SHNJ | 52.83 | 328 | eP | 29 | 35.10 | -1.0 |
| TP1 | 53.84 | 274 | ePc | 29 | 44.00 | 0.1 |
| | | | e | 35 | 00.00 | |
| QZH | 54.56 | 311 | Pc | 29 | 49.00 | 0.0 |
| Z | 24s | 14.20um | | | | 6.0MsZ |
| E | 19s | 11.60um | | | | |
| | | pP | 30 | 02.00 | 47kmX | |
| | | sP | 30 | 06.00 | | |
| | | iS | 37 | 28.00 | | |
| | | sS | 37 | 48.00 | | |
| KUSJ | 55.42 | 345 | eP | 29 | 54.50 | -0.5 |
| MRRJ | 55.81 | 342 | eP | 29 | 57.50 | -0.3 |
| KLI | 56.23 | 271 | eP | 29 | 59.00 | -2.3 |
| | | e | 30 | 36.00 | 160kmX | |
| SSE | 56.49 | 318 | P | 30 | 02.00 | -0.9 |
| | 1.3s | 52.00nm | | | 5.4mb | |
| Z | 20s | 12.60um | | | 6.0MsZ | |
| N | 18s | 4.50um | | | | |
| E | 19s | 11.20um | | | | |
| | | pP | 30 | 14.00 | 42kmX | |
| | | i | 32 | 26.00 | | |
| | | iS | 37 | 53.00 | | |
| | | sS | 38 | 17.00 | | |
| | | eScS | 39 | 46.00 | | |
| | | SS | 41 | 46.00 | | |
| HKC | 56.57 | 305 | Pd | 30 | 05.80 | 2.2 |
| | | S | 37 | 58.00 | | |
| ASAJ | 56.91 | 344 | P | 30 | 06.40 | 0.7 |
| MCO | 56.97 | 305 | eP | 30 | 05.10 | -1.4 |
| GZH | 57.62 | 306 | eP | 30 | 11.00 | 0.0 |
| | 5.0s | 1.60nm | | | 3.3mb X | |
| Z | 24s | 30.40um | | | 6.3MsZ | |
| N | 22s | 12.00um | | | | |
| E | 22s | 25.30um | | | | |
| | | pP | 30 | 22.50 | 40kmX | |
| | | iS | 38 | 12.50 | | |
| | | sS | 38 | 25.50 | | |
| DRV | 57.98 | 190 | iPc | 30 | 12.00 | -0.9 |
| QIZ | 58.63 | 300 | eP | 30 | 16.00 | -2.2 |
| N | 25s | 16.80um | | | | |
| E | 25s | 28.30um | | | | |
| | | pP | 30 | 31.00 | 55kmX | |
| | | PP | 32 | 21.00 | | |
| NJ2 | 58.63 | 318 | Pd | 30 | 17.00 | -0.9 |
| | 6.0s | 1.70nm | | | 3.3mb X | |
| N | 18s | 12.00um | | | | |
| E | 19s | 6.30um | | | | |
| | | sP | 30 | 30.00 | | |
| | | sS | 38 | 26.00 | | |
| KSI | 58.66 | 272 | eP | 30 | 16.30 | -2.2 |
| | | e | 34 | 00.00 | | |
| KGM | 59.08 | 279 | ePc | 30 | 21.40 | 0.0 |
| | | e | 30 | 33.30 | 41kmX | |
| WHN | 60.83 | 314 | eP | 30 | 31.50 | -1.6 |
| Z | 20s | 27.30um | | | 6.4MsZ | |
| N | 17s | 6.99um | | | | |
| E | 20s | 14.00um | | | | |
| | | pP | 30 | 43.50 | 42kmX | |
| | | S | 38 | 40.00 | | |
| PPI | 61.40 | 275 | eP | 30 | 36.00 | -1.3 |
| DL2 | 61.48 | 325 | P | 30 | 36.50 | -0.9 |
| Z | 20s | 9.90um | | | 6.0MsZ | |
| N | 17s | 9.90um | | | | |
| E | 17s | 9.00um | | | | |
| | | pP | 30 | 50.00 | 48kmX | |
| | | S | 38 | 58.00 | | |
| RKT | 61.82 | 111 | iP | 30 | 39.20 | -0.8 |
| | 1.2s | 100.00nm | | | 5.8mb | |
| MDJ | 61.90 | 335 | eP | 30 | 39.80 | -0.3 |
| Z | 24s | 17.10um | | | 6.1MsZ | |
| N | 20s | 11.40um | | | | |
| | | epP | 30 | 52.30 | 44kmX | |
| | | S | 39 | 06.50 | | |
| IPM | 61.91 | 281 | ePd | 30 | 39.70 | -1.1 |
| | 1.0s | 151.70nm | | | 6.1mb | |
| | | e | 30 | 52.40 | 45kmX | |
| TIA | 62.36 | 320 | P | 30 | 41.50 | -1.9 |
| Z | 22s | 12.20um | | | 6.0MsZ | |
| N | 20s | 5.50um | | | | |
| E | 20s | 9.60um | | | | |
| | | esP | 30 | 52.00 | | |
| | | S | 39 | 08.00 | | |
| SNY | 62.53 | 329 | Pc | 30 | 44.00 | -0.3 |

| | | | | | | | |
|------|--------|-----------|-----|----|-------|-----------|--------|
| | | | | pP | 30 | 56.50 | 43 kmX |
| | | | | iS | 39 | 09.00 | |
| SNG | 62.97 | 284 | eP | 30 | 45.70 | -2.0 | |
| | 1.2 s | 171.88 nm | eS | | | 6.1 mb | |
| | | | e | 39 | 15.00 | | |
| | | | | 59 | 39.50 | | |
| CN2 | 63.10 | 332 | iPd | 30 | 47.00 | -1.0 | |
| | 6.0 s | 4.30 nm | | | | 3.8 mb X | |
| | Z 24 s | 23.00 um | | | | 6.3 Msz X | |
| | N 14 s | 5.30 um | | | | | |
| | | | pP | 30 | 58.00 | 36 kmX | |
| PSI | 63.51 | 278 | ePd | 30 | 50.00 | -1.3 | |
| | 0.9 s | 114.80 nm | | | | 6.0 mb | |
| SMY | 63.87 | 9 | eP | 30 | 53.70 | 0.8 | |
| | Z 18 s | 17.00 um | | | | 6.3 Msz | |
| GYA | 64.56 | 306 | P | 30 | 57.60 | -0.5 | |
| | N 20 s | 5.50 um | | | | | |
| | E 20 s | 12.20 um | | | | | |
| | | | PP | 33 | 19.00 | | |
| | | | S | 39 | 38.00 | | |
| ADK | 64.90 | 15 | eP | 31 | 00.40 | 0.7 | |
| | 1.2 s | 703.10 nm | | | | 6.6 mb | |
| NNT | 65.34 | 289 | iPd | 31 | 03.00 | -0.2 | |
| BJI | 65.37 | 323 | eP | 31 | 02.00 | -0.9 | |
| | Z 24 s | 17.50 um | | | | 6.2 Msz X | |
| | N 18 s | 9.70 um | | | | | |
| | | | ePP | 31 | 14.00 | 41 kmX | |
| | | | ePP | 33 | 37.00 | | |
| | | | eS | 39 | 46.00 | | |
| | | | esS | 40 | 46.00 | | |
| NST | 65.95 | 292 | iPd | 31 | 06.90 | -0.1 | |
| TIY | 66.25 | 319 | Pd | 31 | 08.00 | -0.8 | |
| | N 18 s | 11.00 um | | | | | |
| | | | pP | 31 | 21.50 | 47 kmX | |
| | | | S | 39 | 58.00 | | |
| XAN | 66.58 | 314 | Pd | 31 | 09.30 | -1.6 | |
| | N 19 s | 8.10 um | | | | | |
| | E 20 s | 15.70 um | | | | | |
| | | | S | 40 | 00.30 | | |
| KMI | 67.17 | 303 | ePd | 31 | 15.13 | 0.1 | |
| | 5.0 s | 1.80 nm | | | | 3.4 mb X | |
| | | | ed | 31 | 17.45 | 7 kmX | |
| | | | ed | 31 | 27.54 | | |
| | | | ec | 31 | 30.69 | | |
| | | | PcP | 31 | 41.00 | | |
| | | | ScP | 35 | 39.00 | | |
| | | | PcS | 35 | 46.00 | | |
| | | | S | 40 | 08.00 | | |
| | | | sS | 40 | 36.00 | | |
| | | | SS | 44 | 28.00 | | |
| SBA | 67.45 | 179 | Pd | 31 | 17.00 | 1.4 | |
| BDT | 67.49 | 294 | eP | 31 | 16.80 | 0.0 | |
| | 1.0 s | 62.10 nm | | | | 5.7 mb | |
| CHG | 68.07 | 295 | iPd | 31 | 20.20 | -0.3 | |
| | 1.1 s | 51.90 nm | | | | 5.5 mb | |
| | | | eS | 40 | 24.00 | | |
| CHTO | 68.07 | 295 | ePd | 31 | 19.92 | -0.6 | |
| | | | ed | 31 | 21.75 | 6 kmX | |
| | | | ed | 31 | 32.17 | | |
| | | | ec | 31 | 36.81 | | |
| HHC | 68.64 | 322 | P | 31 | 23.60 | -0.2 | |
| | Z 24 s | 26.70 um | | | | 6.4 Msz X | |
| | N 20 s | 12.50 um | | | | | |
| | E 20 s | 10.80 um | | | | | |
| | | | pP | 31 | 31.50 | 25 kmX | |
| | | | S | 40 | 30.00 | | |
| CD2 | 68.85 | 309 | Pd | 31 | 24.80 | -0.4 | |
| | Z 26 s | 10.80 um | | | | 6.0 Msz X | |
| | E 17 s | 6.40 um | | | | | |
| | | | ePP | 31 | 37.00 | 41 kmX | |
| | | | S | 40 | 28.00 | | |
| BTO | 69.45 | 321 | iPd | 31 | 29.00 | 0.2 | |
| | Z 18 s | 10.00 um | | | | 6.1 Msz | |
| | N 18 s | 8.80 um | | | | | |
| | | | sP | 31 | 42.50 | | |
| | | | PP | 34 | 06.50 | | |
| | | | S | 40 | 34.00 | | |
| | | | SS | 45 | 05.00 | | |

| | | | | | | |
|------|-------|-----|----------|----|-------|----------|
| SDN | 72.89 | 22 | ec | 31 | 56.86 | |
| | Z 20s | | eP | 31 | 48.20 | -0.8 |
| | | | 30.00um | | | 6.6MsZ |
| GTA | 75.58 | 315 | iPd | 32 | 05.20 | 0.1 |
| | 5.0s | | 1.60nm | | | 3.3mb X |
| | Z 20s | | 13.80um | | | 6.3MsZ |
| | E 20s | | 11.30um | | | |
| | | | sP | 32 | 17.00 | |
| | | | PP | 34 | 50.00 | |
| SHL | 76.47 | 300 | iP | 32 | 09.90 | -0.5 |
| | | | iS | 41 | 54.00 | |
| KDC | 77.68 | 23 | ePd | 32 | 16.50 | 0.3 |
| LSA | 78.42 | 303 | iPd | 32 | 21.60 | 0.1 |
| | N 20s | | 4.90um | | | |
| | E 22s | | 10.10um | | | |
| | | | sP | 32 | 36.00 | |
| | | | S | 42 | 18.00 | |
| | | | SKS | 42 | 32.00 | |
| | | | SS | 47 | 21.00 | |
| SVW | 78.94 | 20 | iPd | 32 | 24.30 | 1.1 |
| TTA | 80.15 | 18 | P | 32 | 30.50 | 0.8 |
| PMR | 81.53 | 22 | ePd | 32 | 37.00 | 0.2 |
| | 1.3s | | 377.40nm | | | 6.2mb |
| | Z 22s | | 30.00um | | | 6.6MsZ |
| GUN | 82.29 | 300 | Pd | 32 | 41.60 | -0.4 |
| PKI | 82.60 | 300 | Pd | 32 | 43.20 | -0.4 |
| KKN | 82.77 | 300 | Pd | 32 | 44.00 | -0.3 |
| DMN | 82.87 | 300 | Pd | 32 | 44.90 | 0.0 |
| IMA | 83.14 | 17 | iPd | 32 | 46.00 | 0.7 |
| | 1.2s | | 179.70nm | | | 6.1mb |
| GKN | 83.37 | 300 | Pd | 32 | 46.70 | -0.6 |
| MAW | 83.65 | 202 | iPd- | 32 | 47.80 | 0.1 |
| | 1.0s | | 368.00nm | | | 6.5mb |
| | Z 22s | | 1.20um | | | 5.2MsZ X |
| FBA | 84.14 | 19 | iPd | 32 | 49.70 | -0.5 |
| SIT | 84.80 | 29 | eP | 32 | 44.50 | -9.1X |
| | Z 18s | | 31.00um | | | 6.7MsZ |
| FHC | 85.38 | 47 | e(P) | 32 | 58.50 | 1.5 |
| NWRM | 85.49 | 50 | P | 32 | 58.30 | 0.8 |
| PCC | 85.60 | 51 | e(P) | 32 | 58.90 | 0.9 |
| WMO | 85.65 | 316 | ePd | 32 | 57.39 | -0.9 |
| | Z 18s | | 9.70um | | | 6.2MsZ |
| | | | ed | 33 | 00.04 | 8kmX |
| | | | ed | 33 | 09.47 | |
| | | | ec | 33 | 14.77 | |
| | | | S | 43 | 21.00 | |
| GCC | 85.76 | 51 | ePd | 33 | 00.00 | 1.1 |
| BRK | 85.79 | 50 | ePd | 33 | 00.00 | 1.0 |
| | Z 20s | | 18.00um | | | 6.5MsZ |
| | | | eP | 33 | 12.20 | 40kmX |
| | | | ePP | 36 | 28.00 | |
| | | | e | 49 | 30.00 | |
| | | | eLR | 59 | 11.00 | |
| BKS | 85.81 | 50 | iPd | 33 | 00.30 | 1.1 |
| | 0.9s | | 62.00nm | | | 5.8mb |
| | Z 20s | | 13.00um | | | 6.3MsZ |
| | N 20s | | 5.00um | | | |
| | E 20s | | 9.00um | | | |
| | | | iPP | 36 | 30.00 | |
| | | | i | 37 | 51.00 | |
| | | | i | 43 | 06.00 | |
| | | | iS | 43 | 26.00 | |
| | | | i | 48 | 08.00 | |
| | | | i | 52 | 38.00 | |
| | | | iLQ | 55 | 16.00 | |
| | | | iLR | 58 | 53.00 | |
| PRS | 86.05 | 52 | ePd | 33 | 00.70 | 0.3 |
| SAO | 86.11 | 52 | e(P) | 33 | 01.40 | 0.7 |
| MHC | 86.12 | 51 | ePd | 33 | 02.00 | 1.2 |
| | Z 20s | | 11.00um | | | 6.3MsZ |
| | N 20s | | 3.90um | | | |
| | E 20s | | 13.00um | | | |
| | | | iPcP | 33 | 05.40 | |
| | | | ipP | 33 | 14.00 | 39kmX |
| | | | eSP | 33 | 20.00 | |
| | | | ePP | 36 | 36.00 | |
| | | | e | 37 | 53.00 | |
| | | | ePPP | 38 | 20.00 | |
| | | | iS | 43 | 35.00 | |
| | | | e(ScS) | 43 | 58.00 | |
| | | | eSP | 44 | 37.00 | |
| | | | i | 47 | 54.00 | |
| | | | i | 48 | 45. | |

14d 06h

| | | | | | | | | | | | | | | | | | | | | |
|------|-------|----------|---------|----|-------|---------|------|--------|----------|---------|----|----------|--------|------|--------|-----------|---------|----|-------|---------|
| ARN | 86.20 | 51 | eP | 33 | 01.20 | 0.0 | ANMO | 97.66 | 56 | ePc | 34 | 06.67 | 12.0X | BHL | 125.28 | 304 | PKP | 39 | 21.00 | -0.1 |
| | | | ipP | 33 | 14.40 | 44kmX | | | | | | | | | | | PP | 41 | 14.00 | |
| BRW | 86.24 | 12 | ePd | 33 | 01.10 | 0.6 | GOL | 99.08 | 51 | P | 34 | 04.50 | 3.5X | HRI | 125.34 | 303 | e(PKP) | 39 | 25.00 | 3.7X |
| BLP | 86.34 | 54 | P | 33 | 01.30 | -0.5 | | 1.0s | 25.00nm | | | 5.7mb | | CCM | 125.51 | 120 | PKP | 39 | 23.50 | 1.2 |
| HYB | 86.34 | 288 | eP | 33 | 01.40 | -0.8 | Z | 20s | 27.50um | | | 6.8Msz | | BBTK | 125.98 | 312 | iPKPc | 39 | 21.50 | -0.9 |
| | 1.4s | 125.00nm | | | | 6.0mb | GLD | 99.20 | 51 | P | 34 | 06.00 | 4.5X | PRNI | 126.50 | 300 | ePKP | 39 | 23.00 | -0.6 |
| WDC | 86.37 | 48 | iPd | 33 | 02.00 | 1.0 | | 1.4s | 35.00um | | | 6.9Msz | | MBH | 126.70 | 299 | iPKPc | 39 | 23.00 | -0.9 |
| | | | iPcP | 33 | 06.30 | | FFC | 102.29 | 36 | ePd | 34 | 14.50 | -0.3 | CFR | 127.14 | 320 | ePKP | 39 | 27.00 | 2.8 |
| | | | ipP | 33 | 15.10 | 40kmX | | 1.5s | 40.00nm | | | 5.9mb | | TLB | 127.47 | 319 | ePKP | 39 | 25.50 | 0.6 |
| LLA | 86.46 | 52 | ePd | 33 | 03.70 | 1.3 | MEO | 104.09 | 57 | ePd | 34 | 25.10 | 1.7 | VRI | 127.72 | 321 | ePKP | 39 | 24.00 | -1.4 |
| PRI | 86.55 | 52 | ePd | 33 | 04.50 | 1.5 | MHI | 105.65 | 305 | ePd | 34 | 45.00 | 14.6X | ISR | 128.18 | 320 | ePKP | 39 | 30.00 | 3.7X |
| LTCM | 86.56 | 48 | P | 33 | 03.50 | 0.7 | | | e | | | 37.50.00 | | ISK | 128.21 | 315 | ePKP | 39 | 41.50 | 15.1X |
| GBA | 86.62 | 284 | P | 33 | 03.00 | -0.5 | | | e | | | 39.12.00 | | UAV | 128.22 | 87 | ePKP | 39 | 26.40 | -1.1 |
| SYF | 86.66 | 54 | eP | 33 | 04.00 | 0.4 | ALE | 105.78 | 5 | ePd | 34 | 30.00 | 0.2 | MLR | 128.39 | 321 | ePKP | 39 | 25.00 | -1.8 |
| PHAM | 86.67 | 53 | P | 33 | 04.00 | 0.5 | RSON | 107.45 | 40 | PKP | 38 | 44.00 | -2.4 | CTT | 128.62 | 315 | ePKP | 39 | 25.50 | -1.7 |
| BCH | 86.75 | 54 | P | 33 | 04.90 | 0.9 | | Z | 20s | 39.55um | | 7.0Msz | | SDV | 128.75 | 87 | ePKP | 39 | 25.70 | -2.8 |
| ORV | 86.84 | 49 | ePd | 33 | 04.90 | 0.7 | RSCP | 114.72 | 56 | PKP | 38 | 52.10 | -8.7X | KRA | 129.31 | 329 | ePKP | 39 | 27.70 | -0.5 |
| | | | ipP | 33 | 17.10 | 40kmX | | Z | 20s | 11.30um | | 6.5Msz | | | Z | 20s | 7.60um | | | 6.4Msz |
| MIN | 86.98 | 48 | ePd | 33 | 05.30 | 0.3 | SOD | 115.73 | 342 | ePKP | 39 | 19.00 | 17.3X | | N | 20s | 5.90um | | | |
| | | | epP | 33 | 17.70 | 41kmX | FRB | 116.30 | 22 | ePKP | 39 | 01.00 | -1.8 | | | | | | | |
| CMB | 87.26 | 51 | ePc | 33 | 08.24 | 1.9 | SLY | 117.01 | 305 | ePKP | 39 | 10.00 | 4.9X | SPC | 129.67 | 328 | ePKP | 39 | 27.00 | -1.4 |
| | | | ec | 33 | 19.67 | 37kmX | | | e | | | 40.07.00 | | | | | | | | |
| | | | ed | 33 | 23.47 | | | | i | | | 40.34.00 | | | | | | | | |
| ABL | 87.35 | 54 | P | 33 | 07.80 | 0.8 | | | e | | | 50.03.00 | | | | | | | | |
| FRI | 87.51 | 52 | ePd | 33 | 08.30 | 0.9 | NPA | 117.30 | 247 | ePKP | 39 | 08.00 | 1.8 | TOV | 129.67 | 86 | ePKP | 39 | 29.00 | -1.0 |
| | | | ipP | 33 | 20.40 | 39kmX | | | e | | | 40.09.00 | | HLW | 129.71 | 300 | ePKP | 39 | 40.00 | 10.4X |
| BMW | 87.64 | 42 | P | 33 | 11.20 | 3.3X | | | e(SKS) | | | 49.33.50 | | KMZ | 129.89 | 243 | iPKP | 39 | 17.00 | -13.5X |
| PAS | 88.02 | 55 | eP | 33 | 10.00 | 0.1 | KJF | 117.33 | 339 | ePKP | 39 | 04.00 | -0.8 | | | | | | | |
| | | | ePP | 36 | 37.00 | | | | i | | | 39.17.40 | | DEV | 130.04 | 323 | ePKPc | 39 | 45.00 | 15.3X |
| | | | eSKS | 43 | 44.00 | | | | e | | | 40.30.00 | | FISA | 130.25 | 84 | iPKP | 39 | 33.10 | 2.0 |
| | | | eS | 44 | 14.00 | | | | e | | | 56.42.00 | | IZM | 130.50 | 312 | ePKP | 39 | 28.00 | -2.9X |
| | | | ePS | 44 | 59.00 | | | | e | | | 39.07.00 | -0.4 | KSP | 130.59 | 331 | ePKP | 39 | 31.50 | 0.9 |
| | | | eSS | 50 | 04.00 | | BHD | 118.18 | 302 | ePKPd | 39 | 07.00 | | | | | | | | |
| | | | eLg | 56 | 34.00 | | | | e | | | 40.18.00 | | | | | | | | |
| | | | eLR | 00 | 00.00 | | | | ePP | | | 40.37.00 | | | | | | | | |
| | | | | | | | | | e | | | 41.08.00 | | | | | | | | |
| MWC | 88.13 | 55 | eP | 33 | 11.00 | 0.3 | | | eSKS | | | 46.03.00 | | BZS | 130.94 | 323 | iPKPc | 39 | 30.00 | -1.4 |
| PGC | 88.16 | 40 | eP | 33 | 11.00 | 0.8 | | | ePS | | | 50.12.50 | | CEOS | 131.03 | 87 | ePKP | 39 | 34.00 | 1.4 |
| SHW | 88.21 | 42 | P | 33 | 12.00 | 1.2 | BLA | 118.66 | 53 | PKP | 39 | 07.00 | -1.3 | TIM | 131.11 | 323 | iPKPd | 39 | 23.00 | -8.7X |
| GMW | 88.25 | 41 | P | 33 | 16.20 | 5.4X | SUF | 118.79 | 338 | ePKP | 39 | 05.00 | -2.6 | LWI | 131.14 | 258 | ePKP | 39 | 33.50 | 0.4 |
| SBW | 88.42 | 54 | eP | 33 | 12.00 | 0.0 | CVL | 120.07 | 52 | PKP | 39 | 12.00 | 1.2 | BUD | 131.35 | 327 | ePKP | 39 | 31.50 | -0.6 |
| MCW | 88.56 | 40 | P | 33 | 13.20 | 0.9 | GAC | 120.36 | 43 | ePKP | 39 | 09.50 | -1.6 | SRO | 131.53 | 327 | ePKP | 39 | 32.60 | 0.1 |
| RVR | 88.62 | 55 | eP | 33 | 12.00 | -0.9 | NUR | 120.72 | 337 | ePKP | 39 | 13.00 | 1.7 | | | | | | | |
| LON | 88.66 | 42 | ePc | 33 | 13.00 | 1.0 | | | e | | | 39.27.00 | | | | | | | | |
| | | | ec | 33 | 25.22 | 37kmX | CBN | 120.87 | 52 | ePKP | 39 | 14.00 | 1.7 | BRG | 131.65 | 333 | ePKP | 39 | 32.60 | 0.0 |
| | | | ec | 33 | 33.33 | | | | e | | | 40.41.00 | | | Z | 20s | 3.00um | | | 6.0Msz |
| PEC | 88.77 | 55 | P | 33 | 14.40 | 0.8 | PSO | 120.98 | 95 | ePKP | 39 | 14.00 | 0.2 | | N | 20s | 4.00um | | | |
| RMW | 88.86 | 41 | P | 33 | 14.30 | 0.5 | ARE | 121.27 | 116 | ePKP | 39 | 15.00 | 0.9 | | E | 20s | 3.00um | | | |
| PLM | 88.89 | 56 | eP | 33 | 15.00 | 0.6 | RSNY | 121.35 | 44 | PKP | 39 | 20.00 | 6.9X | | | | | | | |
| BAR | 88.90 | 57 | eP | 33 | 14.00 | -0.2 | | Z | 20s | 12.43um | | 6.6Msz | | CLL | 131.75 | 334 | iPKP | 39 | 37.10 | 4.3X |
| VGB | 89.00 | 43 | P | 33 | 18.00 | 3.5X | SCH | 121.78 | 30 | ePKP | 39 | 12.00 | -1.6 | | Z | 19s | 7.00um | | | 6.4Msz |
| MNA | 89.06 | 51 | e(P) | 33 | 16.20 | 1.1 | FRS | 121.80 | 225 | iPKPc | 39 | 13.30 | -1.0 | | | | | | | |
| KVN | 89.25 | 50 | eP | 33 | 16.60 | 0.6 | | | i | | | 49.16.00 | | ZST | 131.92 | 328 | ePKP | 39 | 34.70 | 1.5 |
| | | | ipP | 33 | 30.00 | 45kmX | BPI | 121.85 | 230 | ePKP | 39 | 12.70 | -2.1 | | Z | 18s | 11.00um | | | 6.6Msz |
| GSC | 89.38 | 54 | eP | 33 | 17.00 | 0.4 | | 1.2s | 78.13nm | | | | | | | | | | | |
| TNP | 89.70 | 51 | P | 33 | 18.50 | 0.4 | PRY | 121.86 | 229 | ePKP | 39 | 03.50 | -11.3X | | | | | | | |
| TPC | 89.72 | 55 | eP | 33 | 18.00 | -0.1 | | 1.0s | 20.00nm | | | | | | | | | | | |
| GLA | 90.49 | 57 | eP | 33 | 23.00 | 1.3 | | | i | | | 39.16.50 | | PRU | 131.99 | 332 | PKP | 39 | 23.00 | -10.3X |
| PNT | 90.77 | 40 | iPd | 33 | 23.10 | 0.5 | SLR | 121.89 | 231 | iPKPc+ | 39 | 16.00 | 1.1 | | Z | 21s | 9.20um | | | 6.5Msz |
| | 1.2s | 224.00nm | | | | 6.4mb | | 1.0s | 25.00nm | | | | | | N | 20s | 3.10um | | | |
| DPW | 91.32 | 42 | P | 33 | 25.70 | 0.5 | | Z | 20s | 51.06um | | 7.2Msz | | | E | 21s | 4.50um | | | |
| BOM | 91.98 | 289 | eP | 33 | 33.00 | 4.4X | | | i | | | 49.16.00 | | | | | | | | |
| | | | eS | 44 | 00.00 | | BFS | 122.38 | 229 | ePKP | 39 | 17.50 | 1.7 | | | | | | | |
| KSH | 93.03 | 309 | eP | 33 | 34.20 | 0.9 | KSR | 122.87 | 230 | ePKP | 39 | 17.00 | 0.2 | BEO | 132.06 | 323 | ePKP | 39 | 49.50 | 15.9X |
| | 8.0s | 1.80nm | | | | 3.6mb X | CGY | 122.99 | 229 | ePKP | 39 | 12.00 | -4.7X | VKA | 132.28 | 329 | ePKP | 39 | 34.50 | 0.6 |
| | Z | 20s | 12.50um | | | 6.4Msz | | 0.7s | 15.75nm | | | | | | 5.5s | 1847.00nm | | | | |
| | N | 20s | 8.20um | | | | SWZ | 123.30 | 228 | iPKPd | 39 | 18.60 | 1.1 | | Z | 25s | 4.70um | | | 6.1MszX |
| | | | S | 44 | 42.00 | | | 1.3s | 163.46nm | | | | | | | | | | | |
| MSU | 93.67 | 52 | P | 33 | 38.30 | 1.9 | | | i | | | 41.14.00 | | | | | | | | |
| DAU | 94.70 | 50 | P | 33 | 45.40 | 4.2X | HJA | 123.31 | 127 | ePKPd | 39 | 17.00 | -0.4 | | | | | | | |
| LRM | 94.76 | 44 | eP | 33 | 42.00 | 0.7 | CER | 123.42 | 218 | iPKPd | 39 | 26.00 | 8.6X | VAY | 132.53 | 318 | ePKP | 39 | 29.70 | -4.9X |
| EDM | 95.47 | 37 | iPc | 33 | 44.20 | 0.1 | | 0.6s | 14.29nm | | | | | SOP | 132.53 | 328 | ePKP | 39 | 33.20 | -1.2 |
| | 1.2s | 117.00nm | | | | 6.2mb | TUH | 123.55 | 218 | ePKP | 39 | 30.00 | 12.3X | CAR | 132.54 | 85 | ePKP | 39 | 40.00 | 4.5X |
| MZX | 96.05 | 68 | (P) | 33 | 48.50 | 1.2 | NAI | 123.64 | 261 | iPKPd | 39 | 19.00 | 0.3 | OLLA | 132.63 | 86 | ePKP | 39 | 39.00 | 3.3X |
| BW06 | 96.33 | 48 | ePd | 33 | 49.00 | 0.5 | | 1.0s | 6.00nm | | | | | LLAV | 132.66 | 85 | ePKP | 39 | 38.60 | 2.9X |
| | 1.3s | 43.85nm | | | | 5.8mb | CNCB | 124.19 | 119 | PKP | 39 | 19.00 | -1.1 | MOX | 132.84 | 334 | ePKP | 39 | 47.00 | 12.1X |
| | | | ipP | 34 | 03.00 | 47kmX | LPB | 124.21 | 118 | PKPc | 39 | 20.00 | 0.1 | | Z | 24s | 5.00um | | | 6.1MszX |
| SES | 96.43 | 40 | eP | 33 | 49.00 | 0.4 | | 1.0s | 76.00nm | | | | | | N | 28s | 4.40um | | | |
| | 1.4s | 134.00nm | | | | 6.2mb | | Z | 22s | 9.63um | | 6.4Msz | | | E | 28s | 3.00um | | | |
| | | | pP | 34 | 01.00 | 39kmX | | | LR | | | 19.20.00 | | | | | | | | |
| YKA | 96.43 | 28 | P | 33 | 48.10 | -0.1 | ZOBO | 124.29 | 118 | PKPd | 39 | 19.00 | -1.3 | | | | | | | |
| YKC | 96.49 | 28 | ePd | 33 | 48.00 | -0.5 | | 1.0s | 42.50nm | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|--------|----------|--------|----|-------|--------|--------------------------------------|------------------------------------|---------|------|----|-------|-------|------------------------------------|-------|-----|------|----|----------|--------|------|-----|----|-------|-------|------|
| E | 24s | 7.84um | | | | | EPRU | 150.96 | 338 | ePKP | 40 | 12.50 | 5.6X | RDT | 0.42 | 189 | iP | 18 | 38.82 | 0.6 | | | | | | |
| | | | i | 39 | 52.00 | | EJIF | 151.50 | 337 | ePKP | 40 | 15.00 | 7.3X | | | | iS | 18 | 45.60 | | | | | | | |
| | | | i | 42 | 13.50 | | TAF | 151.59 | 331 | iPKP | 40 | 13.50 | 5.5X | NKA | 0.56 | 116 | iP | 18 | 43.08 | 2.0 | | | | | | |
| | | | i | 43 | 20.00 | | | | | i | 40 | 26.00 | | RED | 0.62 | 203 | iP | 18 | 41.97 | -0.2 | | | | | | |
| | | | e | 59 | 44.00 | | IFR | 153.91 | 334 | iPKP | 40 | 14.00 | 2.5 | ILIM | 0.97 | 201 | iP | 18 | 48.11 | -0.7 | | | | | | |
| | | | LR | 37 | 45.00 | | | | | i | 40 | 23.50 | | | | | iS | 19 | 01.48 | | | | | | | |
| KHC | 133.04 | 331 | ePKP | 39 | 25.50 | -9.9X | | | | i | 40 | 37.50 | | NNL | 1.07 | 153 | iP | 18 | 51.20 | 0.8 | | | | | | |
| | | | e | 39 | 38.20 | | AVE | 155.03 | 337 | ePKP | 40 | 16.00 | 3.3X | | | | iS | 19 | 04.75 | | | | | | | |
| | | | i | 39 | 53.50 | | | | | i | 40 | 52.00 | | SLKM | 1.12 | 115 | iP | 18 | 50.35 | -0.9 | | | | | | |
| KMR | 133.52 | 330 | iPKP | 39 | 37.40 | 1.1 | TIO | 157.05 | 334 | iPKP | 40 | 29.40 | 13.7X | | | | iS | 19 | 05.22 | | | | | | | |
| | | | i | 39 | 49.20 | | | | | i | 41 | 01.00 | | PWA | 1.33 | 59 | eP | 18 | 53.20 | -1.7 | | | | | | |
| | | | iPP | 42 | 10.40 | | KOGH | 161.30 | 258 | ePKP | 40 | 22.00 | 1.4 | PMS | 1.34 | 78 | iPc | 18 | 53.50 | -1.6 | | | | | | |
| GRF | 133.71 | 333 | e(PKP) | 39 | 54.00 | 17.4X | | | | e | 44 | 49.00 | | HOM | 1.37 | 166 | eP | 18 | 55.23 | -0.4 | | | | | | |
| | | | e | 42 | 08.00 | | KUK | 161.45 | 258 | ePKP | 40 | 21.00 | 0.3 | BRLL | 1.41 | 150 | eP | 18 | 55.21 | -1.0 | | | | | | |
| OHR | 133.80 | 318 | ePKP | 39 | 35.00 | -2.1 | | | | e | 45 | 00.50 | | PDB | 1.54 | 219 | iP | 18 | 57.90 | -0.1 | | | | | | |
| | | | i | 39 | 54.20 | | KIC | 165.68 | 255 | PKP | 40 | 23.52 | -1.2 | CNPM | 1.56 | 160 | iP | 18 | 57.51 | -0.8 | | | | | | |
| PTJ | 133.98 | 327 | ePKP | 39 | 35.20 | -2.2 | | 1.2s | 75.00nm | | | | | | | | iS | 19 | 18.28 | | | | | | | |
| KBA | 134.57 | 329 | ePKP | 39 | 39.00 | 0.4 | LIC | 165.91 | 254 | PKP | 40 | 23.82 | -1.1 | SVW | 1.63 | 276 | iPc | 18 | 58.10 | -1.3 | | | | | | |
| | 1.0s | 13.40nm | | | | | TIC | 166.02 | 255 | PKP | 40 | 23.72 | -1.3 | PLRM | 1.63 | 67 | eP | 18 | 57.58 | -1.7 | | | | | | |
| | | | iPP | 42 | 16.70 | | | 1.0s | 45.00nm | | | | | | | | eS | 19 | 18.00 | | | | | | | |
| | | | ipPP | 42 | 26.10 | | | S.D. = 1.1 on 272 of 368 obs. | | | | | | | | | | | | PMR | 1.63 | 67 | eP | 18 | 57.00 | -2.3 |
| | | | epPPP | 45 | 21.50 | | | * FEB 14, 1989 07h 11m 26.71±1.11s | | | | | | | | | | | | SEW | 1.65 | 121 | eP | 18 | 59.18 | -0.4 |
| VBY | 134.62 | 327 | ePKP | 39 | 38.80 | 0.4 | | 38.849 N ± 8.1km 20.577 E ±14.1km | | | | | | | | | | | | PME | 1.69 | 66 | eP | 18 | 58.70 | -1.5 |
| RBL | 134.89 | 329 | PKP | 39 | 43.00 | 4.0X | | DEPTH = 10.0km (geophysicist) | | | | | | | | | | | | GHO | 1.79 | 63 | eP | 19 | 00.10 | -1.7 |
| CEY | 134.91 | 327 | e(PKP) | 39 | 41.00 | 2.0 | GREECE | (364) | | | | | | | | | | | | KNK | 1.90 | 75 | iP | 19 | 03.32 | 0.1 |
| VOY | 135.00 | 328 | ePKP | 39 | 35.80 | -3.5X | MD 3.2 (ATH). | | | | | | | SML | 2.07 | 65 | eP | 19 | 05.01 | -0.7 | | | | | | |
| MEM | 135.12 | 338 | ePKP | 39 | 44.00 | 4.8X | VLS | 0.67 | 179 | ePn | 11 | 40.10 | 0.1 | CDD | 2.18 | 199 | eP | 19 | 07.41 | 0.1 | | | | | | |
| WLF | 135.83 | 337 | ePKP | 39 | 43.60 | 3.0X | LSK | 1.30 | 1 | iPnd | 11 | 54.30 | 3.5X | TTA | 2.63 | 319 | iPc | 19 | 12.00 | -1.8 | | | | | | |
| CTI | 136.13 | 330 | PKP | 39 | 42.00 | 0.5 | TPE | 1.51 | 343 | ePn | 11 | 53.50 | -0.3 | VZW | 2.79 | 86 | eP | 19 | 15.75 | -0.3 | | | | | | |
| PGD | 137.59 | 327 | PKP | 39 | 48.50 | 4.1X | KZN | 1.72 | 32 | ePn | 11 | 59.00 | 2.0 | KLU | 3.11 | 78 | eP | 19 | 20.30 | -0.3 | | | | | | |
| ASS | 137.61 | 326 | PKP | 39 | 54.00 | 9.7X | NEO | 2.11 | 77 | ePn | 12 | 02.70 | 0.2 | TOA | 3.13 | 66 | eP | 19 | 21.90 | 1.1 | | | | | | |
| CRE | 137.63 | 327 | PKP | 39 | 55.00 | 10.6X | OHR | 2.27 | 4 | ePn | 12 | 09.60 | 4.8X | KDC | 3.25 | 182 | iPc | 19 | 22.80 | 0.3 | | | | | | |
| VAI | 137.65 | 331 | PKP | 39 | 38.00 | -6.2X | TIR | 2.55 | 348 | ePn | 12 | 22.50 | 13.7X | IMA | 5.14 | 354 | eP | 19 | 47.20 | -2.2 | | | | | | |
| PAG | 137.78 | 78 | ePKP | 39 | 40.00 | -5.4X | PLG | 2.69 | 55 | ePn | 12 | 10.00 | -0.8 | 30 obs. associated | | | | | | | | | | | | |
| AZI | 137.86 | 324 | PKP | 39 | 54.00 | 9.3X | PHP | 2.84 | 358 | ePn | 12 | 23.60 | 10.8X | * FEB 14, 1989 10h 37m 36.02±3.02s | | | | | | | | | | | | |
| FIR | 137.90 | 327 | ePKP | 39 | 52.00 | 7.3X | VAY | 2.90 | 31 | ePn | 12 | 12.50 | -1.3 | 10.581 N ±18.5km 61.919 W ±24.9km | | | | | | | | | | | | |
| MNS | 138.04 | 325 | PKP | 39 | 48.00 | 2.9X | SKO | 3.19 | 12 | ePn | 12 | 18.00 | 0.2 | DEPTH = 27.4 ± 7.6 km | | | | | | | | | | | | |
| BDI | 138.05 | 328 | PKP | 39 | 42.00 | -3.1X | S.D. = 1.3 on 7 of 11 obs. | | | | | | | | | | | | TRINIDAD | (98) | | | | | | |
| BOB | 138.13 | 330 | PKP | 39 | 51.00 | 5.7X | ? FEB 14, 1989 07h 56m 00.76±5.93s | | | | | | | TCE | 0.20 | 55 | eP | 37 | 41.51 | -0.5 | | | | | | |
| ORO | 138.20 | 332 | PKP | 39 | 36.00 | -9.4X | 15.077 N ±53.2km 98.454 W ±15.8km | | | | | | | TRN | 0.51 | 82 | eP | 37 | 46.51 | 0.0 | | | | | | |
| SOI | 138.51 | 317 | PKP | 39 | 47.00 | 1.0 | DEPTH = 33.0km (normal) | | | | | | | | | | eS | 37 | 46.54 | | | | | | | |
| ITA | 138.56 | 142 | ePKP | 39 | 38.80 | -8.2X | OFF COAST OF GUERRERO, MEXICO (65) | | | | | | | TPP | 0.53 | 120 | eP | 37 | 46.74 | 0.0 | | | | | | |
| BMA | 138.64 | 143 | ePKP | 39 | 41.50 | -5.3X | ACX | 2.24 | 323 | eP | 56 | 35.50 | -0.7 | | | | eS | 38 | 05.03 | | | | | | | |
| LOR | 138.67 | 337 | ePKP | 39 | 40.80 | -5.3X | OXX | 2.60 | 40 | iP | 56 | 41.00 | -0.5 | TBH | 0.84 | 96 | eP | 37 | 52.18 | 0.2 | | | | | | |
| | 1.1s | 14.60nm | | | | | III | 3.42 | 344 | eP | 56 | 52.50 | -0.8 | GRW | 1.59 | 9 | eP | 38 | 03.47 | 0.7 | | | | | | |
| SSF | 138.97 | 337 | ePKP | 39 | 41.80 | -4.8X | IIT | 3.92 | 2 | eP | 57 | 02.00 | 1.5 | | | | eS | 38 | 23.85 | | | | | | | |
| | 1.0s | 8.00nm | | | | | IISM | 4.02 | 15 | iP | 57 | 01.00 | -0.6 | BIM | 4.00 | 12 | eP | 38 | 36.81 | -0.2 | | | | | | |
| RDJ | 139.03 | 144 | ePKP | 39 | 55.60 | 8.2X | ALQ | 21.05 | 341 | eP | 00 | 45.60 | 1.0 | MVM | 4.07 | 14 | eP | 38 | 38.35 | 0.2 | | | | | | |
| AVF | 139.26 | 337 | ePKP | 39 | 42.90 | -4.2X | S.D. = 1.3 on 6 of 6 obs. | | | | | | | | | | | | FDF | 4.19 | 10 | eP | 38 | 39.34 | -0.5 | |
| BGF | 139.64 | 337 | ePKP | 39 | 42.90 | -4.9X | ? FEB 14, 1989 08h 02m 57.92±2.83s | | | | | | | * FEB 14, 1989 11h 30m 40.08±1.05s | | | | | | | | | | | | |
| | 1.0s | 14.80nm | | | | | 16.015 N ±31.6km 98.395 W ±13.6km | | | | | | | 30.975 S ± 8.4km 71.767 W ±10.4km | | | | | | | | | | | | |
| MAF | 140.03 | 337 | ePKP | 39 | 44.30 | -4.2X | DEPTH = 33.0km (normal) | | | | | | | DEPTH = 97.7 ± 12.5 km | | | | | | | | | | | | |
| | 1.0s | 10.00nm | | | | | 3.6mb (2 obs.) | | | | | | | NEAR COAST OF CENTRAL CHILE (135) | | | | | | | | | | | | |
| LMR | 140.62 | 331 | ePKP | 39 | 45.50 | -4.1X | NEAR COAST OF GUERRERO, MEXICO (58) | | | | | | | JACH | 1.97 | 150 | iPc | 31 | 12.10 | -0.7 | | | | | | |
| MFF | 140.69 | 340 | ePKP | 39 | 44.70 | -5.0X | ACX | 1.64 | 301 | eP | 03 | 23.00 | -1.9 | RTS | 2.14 | 69 | iPc | 31 | 20.00 | 5.0X | | | | | | |
| BNG | 142.68 | 264 | iPKPc | 39 | 49.00 | -5.2X | OXX | 1.92 | 56 | eP | 03 | 28.00 | -1.1 | PEL | 2.35 | 157 | iPc | 31 | 17.60 | -0.2 | | | | | | |
| | 0.6s | 115.00nm | | | | | III | 2.56 | 337 | eP | 03 | 42.50 | 4.3X | | | | iS | 31 | 35.00 | | | | | | | |
| | | | i | 40 | 02.10 | | IIT | 2.99 | 2 | eP | 03 | 45.00 | 0.6 | LCCH | 2.50 | 176 | iP | 31 | 19.50 | -0.2 | | | | | | |
| | | | i | 42 | 52.50 | | IISM | 3.11 | 18 | eP | 03 | 45.00 | -0.8 | | | | iS | 31 | 37.50 | | | | | | | |
| ETER | 143.11 | 333 | e(PKP) | 39 | 43.80 | -10.3X | MEO | 18.69 | 360 | eP | 07 | 22.90 | 7.1X | RTCB | 2.59 | 102 | iPc | 31 | 21.10 | 0.0 | | | | | | |
| ATB | 143.87 | 110 | e(PKP) | 39 | 50.70 | -5.5X | | 0.8s | 2.40nm | | | | | | | | S | 31 | 51.50 | | | | | | | |
| ECRI | 145.00 | 339 | ePKP | 39 | 57.00 | -0.4 | ALQ | 20.19 | 340 | eP | 07 | 34.00 | 1.2 | FCH | 2.66 | 152 | iP | 31 | 22.50 | 0.2 | | | | | | |
| ESEL | 145.09 | 330 | e(PKP) | 39 | 56.00 | -1.5 | | 0.9s | 4.62nm | | | | | | | | iS | 31 | 54.50 | | | | | | | |
| ERQO | 145.38 | 334 | ePKP | 39 | 58.00 | 0.0 | YKA | 47.81 | 350 | P | 11 | 37.00 | 3.1X | ZON | 2.70 | 103 | iPc | 31 | 23.00 | 0.4 | | | | | | |
| EMON | 145.70 | 345 | ePKP | 39 | 58.00 | -0.5 | INK | 56.84 | 345 | eP | 12 | 42.00 | 0.7 | TACH | 2.76 | 165 | iPd | 31 | 23.50 | 0.2 | | | | | | |
| ETOR | 146.39 | 337 | e(PKP) | 40 | 00.80 | 1.0 | MBC | 61.24 | 354 | eP | 13 | 13.00 | 1.3 | | | | iS | 31 | 55.00 | | | | | | | |
| STS | 146.51 | 347 | ePKP | 40 | 00.80 | 1.0 | S.D. = 1.5 on 7 of 10 obs. | | | | | | | | | | | | RTLL | 2.85 | 98 | iPc | 31 | 24.00 | -0.6 | |
| ERUA | 146.63 | 344 | ePKP | 40 | 03.00 | 3.0X | | | | | | | | | | | S | 31 | 56.50 | | | | | | | |
| ECHE | 147.00 | 335 | ePKP | 40 | 04.00 | 3.3X | & FEB 14, 1989 08h 18m 29.76s | | | | | | | RTCV | 2.90 | 109 | iPc | 31 | 25.60 | 0.4 | | | | | | |
| GUD | 147.31 | 339 | ePKP | 40 | 03.30 | 2.0 | 60.989 N | | | | | | | LNV | 2.99 | 174 | iP | 31 | 26.00 | -0.4 | | | | | | |
| ACU | 147.64 | 333 | ePKP | 40 | 07.80 | 6.0X | 152.274 W | | | | | | | CFA | 3.08 | 103 | ePc | 31 | 17.50 | -10.3X | | | | | | |
| PTO | 148.18 | 346 | ePKP | 40 | 04.80 | 2.3 | DEPTH = 4.1km | | | | | | | CHCH | 3.10 | 163 | iP | 31 | 29.00 | 1.1 | | | | | | |
| EVIA | 148.44 | 335 | ePKP | 40 | 00.70 | -2.4 | SOUTHERN ALASKA | | | | | | | | | | iS | 32 | 04.00 | | | | | | | |
| EPLA | 148.47 | 341 | e(PKP) | 40 | 06.80 | 3.7X | <AGS-P>. ML 3.4 (PMR). | | | | | | | ZOBO | 15.01 | 14 | Pc | 34 | 09.00 | 0.2 | | | | | | |
| EBAN | 149.36 | 337 | e(PKP) | 40 | 08.00 | 3.5X | SPU | 0.22 | 29 | Pn | 18 | 34.50 | 0.2 | ITA | 25.61 | 77 | e(P) | 36 | 02.00 | -0.3 | | | | | | |
| ENIJ | 149.72 | 333 | e(PKP) | 40 | 11.30 | 6.2X | | | | | | | | BMA | 25.93 | 78 | eP | 36 | 05.00 | 0.0 | | | | | | |
| ASMO | 150.04 | 336 | ePKP | 40 | 10.20 | 4.6X | CRP | 0.28 | 12 | iS | 18 | 35.60 | 0.1 | S.D. = 0.5 on 14 of 16 obs. | | | | | | | | | | | | |
| AFG | 150.04 | 335 | e(PKP) | 40 | 12.00 | 6.3X | | | | | | | | * FEB 14, 1989 13h 05m 39.27±0.40s | | | | | | | | | | | | |
| CRT | 150.12 | 335 | ePKP | 40 | 10.00 | 4.3X | CGLM | 0.35 | 22 | Pn | 18 | 36.50 | -0.2 | 17.422 S ± 8.9km 167.426 E ± 9.9km | | | | | | | | | | | | |
| EHOR | 150.21 | 338 | ePKP | 40 | 10.20 | 4.5X | | | | | | | | DEPTH = 33.0km (normal) | | | | | | | | | | | | |
| AAPN | 150.23 | 336 | iPKPc | 40 | 10.00 | 4.1X | | | | | | | | | | | | | | | | | | | | |
| ACHM | 150.29 | 336 | ePKP | 40 | 10.00 | 4.0X | | | | | | | | | | | | | | | | | | | | |
| APHE | 150.36 | 335 | iPKPc | 40 | 10.50 | 4.3X | | | | | | | | </ | | | | | | | | | | | | |

| | | | | | | | |
|----------------------------------|------------------|------|-------------------|-----------------|------|----------------|----------------|
| 4.8mb (12 obs.) | 4.9Msz (4 obs.) | CHG | 76.33 295 eP | 17 28.40 1.1 | 0.9s | 42.02nm | 4.8mb |
| VANUATU ISLANDS | (186) | HHC | 77.73 320 eP | 17 35.00 0.3 | PMG | 21.20 290 eP | 22 22.00 2.3 |
| CENTROID, MOMENT TENSOR | (HRV) | CD2 | 77.77 308 eP | 17 34.60 -0.4 | BWA | 23.85 222 eP | 22 45.70 0.0 |
| Data Used: GDSN | | BTO | 78.54 319 eP | 17 40.80 1.6 | CNB | 23.86 219 eP | 22 47.00 1.1 |
| L.P.B.: 11S, 24C | | LZH | 80.24 313 eP | 17 50.00 1.5 | CMS | 23.94 231 eP | 22 49.00 2.5 |
| Centroid Location: | | | 2.5s 79.00nm | 5.3mb | CAN | 24.08 219 eP | 22 48.70 0.7 |
| Origin Time | 13:05:42.3 0.6 | GTA | 84.63 314 Pd | 18 12.30 1.2 | QIS | 26.37 259 eP | 23 10.00 0.3 |
| Lat 17.50S 0.07 Lon 167.51E 0.07 | | Z | 23s 0.60um | 4.9MszX | STK | 27.31 234 eP | 23 18.00 -0.2 |
| Dep 15.0 FIX Half-duration 1.9 | | PNT | 92.40 39 eP | 18 50.00 2.3 | WB5 | 31.28 260 eP | 23 52.20 -1.7 |
| Moment Tensor: Scale 10**17 Nm | | GBA | 93.98 283 Pd | 18 56.90 1.3 | WRA | 31.31 260 Pd | 23 51.70 -2.4 |
| Mrr=-1.00 0.05 Mtt=-0.17 0.07 | | | 0.6s 1.40nm | 4.6mb | | 0.7s 5.50nm | 4.5mb |
| Mff=-0.83 0.07 Mrt=1.02 0.18 | | WMO | 94.71 314 eP | 18 59.50 0.9 | ASPA | 31.83 253 iPd | 23 56.70 -2.0 |
| Mrf=-1.42 0.20 Mtf=0.32 0.05 | | FRB | 120.27 25 ePKP | 24 25.00 -3.0X | | 0.9s 36.00nm | 5.3mb |
| Principal Axes: | | SUF | 127.39 339 ePKP | 24 39.00 -2.8 | Z | 22s 1.72um | 4.7MszX |
| T Val= 2.04 Plg=59 Azm= 48 | | | 0.4s 1.80nm | | | LR | 35 45.80 |
| N -0.08 5 147 | | ZST | 140.91 328 ePKP | 24 53.40 -14.3X | KNA | 36.95 267 eP | 24 41.00 -1.6 |
| P -1.96 30 241 | | KHC | 141.93 332 PKP | 25 03.60 -6.0X | FORR | 37.97 242 eP | 24 50.00 -1.0 |
| Best Double Couple:Mo=2.0*10**17 | | TIR | 143.37 317 ePKP | 25 10.90 -1.3 | MEKA | 45.89 250 eP | 25 55.00 -0.8 |
| NP1:Strike=348 Dip=15 Slip= 111 | | KBA | 143.52 330 ePKP | 25 07.50 -5.0X | | 0.6s 7.00nm | 4.8mb |
| NP2: 146 76 84 | | | 1.0s 14.10nm | | NWAO | 47.41 241 eP | 26 05.00 -2.8 |
| | | | i 25 16.30 | | | 0.7s 8.00nm | 4.8mb |
| PVC 0.90 111 iPd 05 48.70 -6.9X | | VBY | 143.64 326 ePKPd | 25 09.30 -3.2X | NANU | 48.73 255 iPc | 26 18.00 -0.1 |
| iS 05 56.50 | | LJU | 143.65 328 ePKP | 25 08.50 -4.0X | | 0.6s 24.00nm | 5.4mb |
| DZM 4.72 191 iPd 06 45.80 -4.2X | | RBL | 143.86 329 PKPc | 25 09.30 -3.7X | MAT | 60.41 333 eP | 27 39.00 -4.0X |
| iS 07 36.00 | | CEY | 143.91 327 e(PKP) | 25 09.00 -4.0X | | 0.9s 20.17nm | 5.3mb |
| VSG 11.05 316 eP 08 18.00 -0.2 | | VOY | 143.99 328 ePKP | 25 08.90 -4.3X | MDJ | 70.77 332 eP | 28 48.00 -1.4 |
| BRS 16.78 231 Pc 09 35.20 1.8 | | FVI | 144.14 330 PKPc | 25 09.00 -4.3X | CN2 | 72.07 329 P | 28 55.20 -2.0 |
| COO 19.28 224 eP 10 05.00 0.7 | | WLF | 144.46 339 PKPd | 25 11.60 -2.1 | SPA | 72.58 180 e(P) | 28 57.30 -2.9 |
| RMQ 19.51 239 iPd 10 08.40 1.5 | | DOU | 144.60 341 PKP | 25 11.70 -2.3 | | 1.0s 5.90nm | 4.5mb |
| RAB 19.91 310 eP 10 04.00 -7.2X | | CDF | 145.10 337 PKP | 25 12.19 -2.9 | | e | 29 08.90 |
| CTA 20.22 259 iPc 10 16.00 1.6 | | FEL | 145.26 335 PKP | 25 12.93 -2.4 | BJI | 74.48 322 eP | 29 10.00 -1.4 |
| 1.0s 52.00nm 4.8mb | | VAL | 145.51 357 iPKP | 25 14.60 -0.8 | TIY | 75.36 318 eP | 29 17.00 0.4 |
| Z 19s 2.20um 4.5Msz | | MOF | 145.62 336 PKP | 25 13.77 -2.2 | CHG | 76.29 295 eP | 29 23.00 0.8 |
| iS 14 09.00 | | VITF | 145.74 338 PKP | 25 14.29 -1.7 | LZH | 80.24 313 eP | 29 45.00 1.3 |
| KRP 21.63 162 P 10 26.00 -2.6 | | HAU | 145.79 337 iPKPc | 25 15.20 -0.9 | GTA | 84.64 314 P | 30 07.50 1.2 |
| BWA 23.99 221 eP 10 50.80 -1.1 | | BBS | 145.79 336 PKP | 25 14.29 -1.9 | PNT | 92.54 39 eP | 30 39.00 -4.6X |
| CNB 24.00 219 eP 10 53.00 1.0 | | CIO | 146.30 325 ePKP | 25 17.44 0.2 | GBA | 93.91 283 P | 30 52.00 1.5 |
| CMS 24.07 230 eP 10 54.00 1.3 | | VAL | 146.53 333 PKPc | 25 16.50 -0.8 | | 0.8s 1.80nm | 4.6mb |
| CAN 24.22 219 eP 10 55.10 0.9 | | PGD | 146.59 327 PKPc | 25 19.00 1.2 | WMO | 94.72 314 P | 30 54.30 0. |

U. S. DEPARTMENT OF THE INTERIOR
Geological Survey
EARTHQUAKE DATA REPORT

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

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

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

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

Two types of magnitude are computed: body-wave magnitude (m_b) and surface-wave magnitude (M_{sz}). Each is a 25% trimmed mean of individual station values. Station magnitudes not used in the trimmed mean are marked with an X. This includes station magnitudes of either type which deviate significantly from the mean and surface-wave magnitudes determined from horizontal amplitudes. Body-wave magnitudes are computed according to the formula $\log(A/T) + Q$, derived by Gutenberg and Richter (1956), where A is the P-wave amplitude in micrometers, T is the period in seconds, and Q is the depth-distance factor. Surface-wave magnitudes are computed from the formula $\log(A/T) + 1.66 \log(\Delta) + 3.3$, where A is the maximum vertical surface-wave amplitude in micrometers, T is the period in seconds, and Δ is the epicentral distance in degrees. Surface-wave magnitudes are determined only for earthquakes whose focal depths (taking into account the computed standard deviations) are potentially less than 50 km, for stations having

$20^\circ \leq \Delta \leq 160^\circ$, and for reported periods of $18 \leq T \leq 22$ s. No correction for focal depth is used in the M_S calculation. Body-wave magnitudes are not determined from PKP arrivals or for stations having $\Delta \leq 5^\circ$. Amplitude values stated in this report are in nanometers (nm) for body-waves and micrometers (μm) for surface-waves.

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

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 “^”.

References

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

LPO 150.53 340 ePKP 37 21.80 3.0X
S.D. = 1.5 on 65 of 76 obs.

* FEB 14, 1989 13h 25m 59.91±3.01s
56.784 N ±23.7km 153.259 W ±11.6km
DEPTH = 33.0km (normal)

KODIAK ISLAND REGION (13)
ML 4.5 (PMR).

KDC 1.05 23 iPc 26 20.50 2.2
CDD 2.16 355 eP 26 35.27 0.9
AUI 2.56 358 eP 26 40.82 0.9
CNP 2.95 20 iP 26 47.04 1.5
PDB 3.05 351 eP 26 46.68 -0.3
ILIM 3.31 3 eP 26 51.50 0.8
NNL 3.43 17 eP 26 53.57 1.3
RED 3.65 4 eP 26 55.95 0.4
RDT 3.83 6 eP 26 58.19 0.2
SEW 3.88 29 eP 26 58.44 -0.3

SLKM 4.06 22 iP 27 01.21 -0.1
eS 27 43.70
eS 27 49.00

SPU 4.46 8 eP 27 06.99 0.0
SVW 4.51 345 iPc 27 05.90 -1.8
CRP 4.53 7 eP 27 08.77 0.6
COLM 4.58 8 eP 27 09.16 0.4
KNIM 4.60 37 eP 27 07.99 -0.9
PMS 4.86 22 eP 27 12.20 -0.5
HIN 5.06 41 iP 27 16.13 0.6
KNK 5.26 26 eP 27 17.59 -0.7
PMR 5.27 22 eP 27 17.20 -1.1
CVA 5.44 43 eP 27 20.29 -0.4
VZW 5.52 36 eP 27 21.01 -0.9
SGAM 5.62 45 eP 27 22.91 -0.4
SML 5.63 25 eP 27 22.92 -0.6
VLZ 5.64 37 eP 27 23.08 -0.5
KLU 6.04 36 iP 27 28.96 -0.4
TTA 6.32 348 eP 27 31.60 -1.6
TOA 6.44 31 ePd 27 35.00 0.0
FBA 8.57 16 eP 28 03.40 -1.1
INK 14.61 30 eP 29 33.00 7.3X
YKA 20.11 58 P 30 33.90 0.6
MBC 23.08 20 eP 31 04.00 1.1

S.D. = 1.0 on 31 of 32 obs.

* FEB 14, 1989 13h 58m 59.73±0.55s
17.588 S ±11.8km 167.678 E ±12.0km
DEPTH = 33.0km (normal)
4.7mb (3 obs.) 4.8Msz (3 obs.)

VANUATU ISLANDS (186)

PVC 0.62 104 iP 59 10.50 -1.6
iS 59 20.50
DZM 4.61 194 iPc 00 06.80 -2.2
iS 00 55.80
RMO 19.63 240 iPd 03 29.20 0.5
CNB 24.02 219 eP 04 23.00 10.3X
BWA 24.03 222 eP 04 13.00 0.3
CMS 24.16 231 eP 04 15.00 1.0
CAN 24.25 220 eP 04 16.00 1.1
STK 27.55 234 eP 04 46.00 0.4
WB5 31.60 261 eP 05 20.90 -1.0
WRA 31.62 260 Pd 05 29.70 7.6X

ASPA 1.0s 4.00nm 4.2mb
32.13 253 iPc 05 24.50 -2.1

Z 18s 1.34um 4.7Msz

MAT 60.61 333 (P) 09 07.00 -2.7
1.4s 37.21nm 5.3mb

SPA 72.52 180 e(P) 10 25.70 0.5
1.0s 7.50nm 4.6mb

Z 18s 0.71um 5.0Msz

BJI 74.73 321 P 10 36.00 -2.1
TIY 75.62 318 eP 10 42.70 -0.7

Z 20s 0.50um 4.8Msz

GTA 84.92 314 eP 11 33.50 0.5
MEM 143.94 340 PKPc 18 30.30 -3.0X

WLF 144.70 339 PKP 18 33.60 -1.0
CDF 145.35 337 ePKP 18 34.50 -1.4

1.1s 48.80nm

BSF 146.01 337 ePKP 18 36.50 -0.6
1.2s 17.80nm

HAU 146.03 337 ePKP 18 36.60 -0.4
1.2s 26.10nm

BNG 147.07 250 iPKPd 18 41.00 1.3
0.8s 11.00nm

i 18 52.40

FLN 147.45 345 ePKP 18 40.10 0.9

1.1s 29.30nm

LOR 147.54 339 ePKP 18 40.90 1.5

1.1s 12.20nm

LBF 147.75 339 ePKP 18 41.60 1.8

1.1s 21.90nm

SSF 147.84 339 ePKP 18 41.90 2.0

GRR 147.89 346 ePKP 18 41.60 1.7

SMF 148.09 339 ePKP 18 43.40 3.1X

AVF 148.13 339 ePKP 18 43.40 3.1X

1.2s 23.80nm

LPF 148.26 346 ePKP 18 42.60 2.1

1.1s 39.00nm

MFF 149.36 343 ePKP 18 45.20 2.9X

1.0s 17.60nm

LFF 150.61 341 ePKP 18 48.90 4.7X

1.1s 26.30nm

S.D. = 1.5 on 25 of 32 obs.

% FEB 14, 1989 14h 17m 54.78±2.02s
43.357 N ±21.2km 143.042 E ±9.9km
DEPTH = 33.0km (normal)

HOKKAIDO, JAPAN REGION (224)

ASAJ 0.81 339 P 18 05.20 -4.6X

HOJ 0.99 169 iP+ 18 12.30 0.0

S 18 28.50

KUSJ 1.25 101 iPd 18 16.00 0.1

S 18 34.60

MRRJ 1.72 238 P 18 22.30 -0.5

eS 18 45.10

AOMJ 3.43 216 eP 18 48.10 0.9

OFUJ 4.40 194 eP 19 00.00 -0.9

S 19 52.40

YAMJ 5.66 205 eP 19 19.40 0.7

MAT 7.75 210 (P) 19 48.00 -0.1

0.8s 7.46nm 4.8mb X

S.D. = 0.8 on 7 of 8 obs.

* FEB 14, 1989 14h 53m 06.21±0.39s
17.452 S ±8.2km 167.310 E ±9.7km
DEPTH = 33.0km (normal)

4.8mb (10 obs.) 5.1Msz (8 obs.)

VANUATU ISLANDS (186)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 115, 23C

Centroid Location:

Origin Time 14:53: 7.9 0.4

Lat 17.52S 0.06 Lon 167.56E 0.06

Dep 15.0 FIX Half-duration 2.3

Moment Tensor: Scale 10**17 Nm

Mrr=1.68 0.07 Mtl=0.15 0.12

Mff=-1.83 0.11 Mtr=0.37 0.24

Mrf=-1.57 0.33 Mtf=0.35 0.07

Principal Axes:

T Val= 2.30 Plg=69 Azm= 73

N 0.20 2 169

P -2.51 21 259

Best Double Couple: Mo=2.4*10**17

NP1: Strike=353 Dip=24 Slip= 95

NP2: 168 66 88

PVC 1.00 107 iPd 53 15.00 -8.9X

iS 53 27.00

DZM 4.67 190 iPc 54 12.60 -3.7X

iS 55 03.90

HNR 10.71 317 eP 55 40.00 -0.5

eS 57 39.00

VSG 11.00 317 eP 55 43.00 -1.5

BRS 16.67 231 P 57 05.50 6.5X

eS 00 22.00

COO 19.18 224 eP 57 34.00 4.0X

RMO 19.40 239 eP 57 33.00 0.4

CTA 20.11 259 iPc 57 41.20 1.1

0.9s 17.65nm 4.4mb

Z 20s 2.45um 4.6Msz

iS 01 39.00

PMG 21.16 290 eP 57 56.00 5.0X

KRP 21.64 162 P 57 53.00 -2.6

BWA 23.89 221 eP 58 17.80 -0.1

i 58 27.30

CNB 23.91 218 eP 58 19.00 0.9

CMS 23.97 230 eP 58 20.00 1.4

e 58 25.00

CAN 24.13 219 eP 58 21.00 0.8

i 58 30.30

STK 27.34 233 eP 58 50.00 -0.2

TAU 30.54 210 eP 59 28.00 9.2X

WB5 31.28 260 eP 59 24.00 -1.5

WRA 31.30 260 Pc 59 23.40 -2.4

0.8s 4.00nm 4.3mb

ASPA 31.84 253 iPc 59 28.50 -2.0

0.8s 19.00nm 5.0mb

Z 21s 5.18um 5.2Msz

eS 04 40.10

LR 11 28.10

GUMO 37.97 323 eP 00 36.00 13.1X

Z 18s 1.76um 4.9Msz

FORR 37.98 242 eP 00 24.00 1.1

MBL 44.83 257 eP 01 20.00 0.7

0.6s 10.00nm 4.9mb

MEKA 45.90 250 eP 01 28.00 0.3

0.5s 5.00nm 4.7mb

NWAO 47.43 241 eP 01 39.00 -0.7

0.8s 14.00nm 5.0mb

Z 20s 1.60um 5.0Msz

N 20s 0.60um

E 20s 1.30um

NANU 48.73 255 eP 01 49.00 -0.9

PCI 49.47 284 eP 02 02.50 6.8X

1.0s 4.00nm 4.4mb

IIDJ 59.57 332 eP 03 09.80 0.7

CHJJ 59.58 334 eP 03 09.60 0.5

MAT 60.33 333 iPc 03 12.30 -2.0

1.2s 28.13nm 5.3mb

eS 11 26.00

MTMJ 60.54 333 eP 03 12.70 -3.1X

SSE 65.52 317 eP 03 46.00 -2.7

Z 16s 0.40um 4.7MszX

E 15s 0.60um

eS 12 32.00

WHN 69.80 313 eP 04 14.00 -1.5

Z 18s 0.74um 5.0Msz

S 13 20.00

PSI 70.29 279 ePc 04 23.00 4.1X

MDJ 70.69 332 eP 04 20.50 -0.2

TIA 71.40 319 eP 04 26.80 1.6

CN2 71.99 329 eP 04 27.50 -1.0

SPA 72.66 180 e(P) 04 29.90 -2.6

1.0s 14.00nm 4.9mb

Z 20s 1.35um 5.2Msz

e 07 10.60

BJI 74.40 322 eP 04 43.50 0.8

eS 14 20.00

eSKS 14 54.00

TIY 75.29 318 eP 04 49.00 1.0

N 19s 0.90um

XAN 75.56 313 eP 04 49.10 -0.5

KMI 75.78 302 eP 04 52.00 0.7

Z 20s 1.30um 5.2Msz

S 14 38.00

CD2 77.70 308 eP 05 02.60 1.0

BTO 78.49 319 eP 05 11.20 5.4X

LZH 80.18 313 eP 05 15.00 -0.1

1.5s 44.00nm 5.2mb

GTA 84.57 314 eP 05 38.20 0.5

Z 19s 0.70um 5.1Msz

N 15s 0.40um

S 16 04.00

WDC 86.92 46 ePc 05 42.40 -6.7X

CMB 87.35 49 ePc 05 48.10 -3.3

GBA 93.88 283 P 06 25.00 2.9X

WMO 94.65 314 eP 06 26.20 0.9

QUE 107.32 297 ePdif 07 18.30 -4.4X

FRB 120.35 25 ePKP 11 51.00 -4.1X

KJF 125.88 340 ePKP 12 04.00 -1.8

SUF 127.38 339 ePKP 12 07.00 -1.7

NB2 133.24 344 PKP 12 13.40 -6.6X

0.9s 3.10nm

KSP 139.46 332 ePKP 12 20.00 -11.9X

BZS 139.97 322 ePKP 12 35.00 2.0

BRG 140.46 333 ePKP 12 35.30 1.6

1.5s 26.00nm

KHC 141.91 332 ePKP 12 06.50 -30.0X

TIR 143.31 317 ePKP 12 31.20 -7.8X

KBA 143.49 330 ePKP 12 35.00 -4.4X

1.1s 14.00nm

VBY 143.60 326 ePKP 12 35.40 -4.0X

LJU 143.62 328 e(PKP) 12 21.00 -18.4X

MEM 143.69 340 PKP 12 31.70 -7.6X

CEY 143.88 327 ePKP 12 36.50 -3.4X

| | | | | | | | | | | | | | | | | | | | | |
|----------|------------------------------------|-----|---------|----|-------|-------|-------------------------------------|-------------------------------|---------|-------|-------|-------|-------------------------------|--------------------------------|----------------------------------|-------|--------|-------|-------|------|
| VOY | 144.14 | 328 | ePKPd | 30 | 21.50 | -3.3X | 0.7s | 37.00nm | 4.9mb | LVM | 5.57 | 332 | (P) | 20 | 35.50 | -6.3X | | | | |
| FVI | 144.29 | 330 | PKP | 30 | 21.50 | -3.3X | DMN | 20.96 | 228 | eP | 27 | 11.90 | 0.5 | II | 6.10 | 314 | eP | 20 | 50.00 | 0.5 |
| WLF | 144.59 | 339 | PKP | 30 | 22.60 | -2.6 | | 0.7s | 46.00nm | 5.0mb | III | 6.60 | 303 | eP | 20 | 55.50 | -0.7 | | | |
| DOU | 144.73 | 341 | PKPc | 30 | 23.80 | -1.7 | CHG | 24.42 | 188 | ePd | 27 | 50.80 | 5.6X | MEO | 20.37 | 348 | eP | 23 | 51.50 | -1.0 |
| | 0.7s | | 20.00nm | | | | | 0.8s | 7.84nm | | | | 4.3mb | | 0.8s | | 4.90nm | | 3.9mb | |
| CTI | 145.23 | 330 | PKPd | 30 | 25.00 | -1.6 | MHI | 33.54 | 273 | eP | 29 | 09.00 | 1.7 | YKA | 49.88 | 347 | P | 28 | 08.60 | 1.7 |
| CDF | 145.24 | 337 | ePKP | 30 | 25.30 | -1.3 | GBA | 36.51 | 224 | Pd | 29 | 37.90 | 5.2X | FRB | 51.90 | 14 | eP | 28 | 21.00 | -1.3 |
| VAL | 145.61 | 358 | ePKP | 30 | 26.00 | -0.9 | | 0.9s | 3.90nm | | | | 4.3mb | INK | 59.21 | 344 | eP | 29 | 18.00 | 3.2X |
| BSF | 145.91 | 337 | ePKP | 30 | 27.20 | -0.5 | SOD | 45.83 | 328 | iP | 30 | 49.30 | 0.7 | MBC | 62.92 | 353 | eP | 29 | 40.00 | 0.3 |
| HAU | 145.93 | 337 | ePKP | 30 | 27.40 | -0.3 | KJF | 45.88 | 324 | iP | 30 | 49.00 | -0.1 | | S.D. = 1.0 on 18 of 25 obs. | | | | | |
| SAL | 146.08 | 331 | PKPc | 30 | 29.00 | 1.1 | SUF | 46.87 | 322 | iP | 30 | 56.70 | -0.2 | | FEB 14, 1989 20h 44m 15.87±3.53s | | | | | |
| ARV | 146.37 | 326 | PKPc | 30 | 29.50 | 1.0 | | 0.6s | 4.70nm | | | | 4.7mb | | 61.163 N ±11.8km 3.553 E ±27.8km | | | | | |
| SFI | 146.65 | 327 | PKPd | 30 | 30.90 | 2.0 | NUR | 48.11 | 319 | iP | 31 | 06.60 | -0.1 | | DEPTH = 10.0km (geophysicist) | | | | | |
| VAL | 146.68 | 333 | PKPd | 30 | 29.40 | 0.6 | HFS | 53.36 | 321 | eP | 31 | 45.60 | -0.9 | | NORWEGIAN SEA (642) | | | | | |
| PGD | 146.75 | 327 | PKPc | 30 | 31.00 | 1.7 | | 0.7s | 14.30nm | | | | 5.1mb | | MD 2.8 (BER). | | | | | |
| CRE | 146.80 | 327 | PKP | 30 | 30.50 | 1.2 | NB2 | 54.09 | 323 | P | 31 | 50.80 | -1.1 | | | | | | | |
| ASS | 146.81 | 325 | PKPc | 30 | 31.00 | 1.7 | | 0.7s | 9.90nm | | | | 5.0mb | | | | | | | |
| BNG | 147.01 | 250 | iPKPc | 30 | 31.60 | 1.2 | KBA | 59.74 | 308 | eP | 32 | 33.00 | 0.5 | SUE | 0.60 | 100 | iP | 44 | 28.30 | 0.4 |
| | 0.6s | | 7.00nm | | | | | 0.8s | 5.20nm | | | | 4.7mb | BER | 1.17 | 131 | iP | 44 | 38.37 | 0.6 |
| | | | i | 30 | 42.30 | | | | i | 32 | 37.30 | | | HYA | 1.28 | 89 | iP | 44 | 39.64 | 0.1 |
| SDI | 147.05 | 323 | PKPc | 30 | 30.50 | 0.8 | INK | 61.29 | 21 | eP | 32 | 42.00 | -0.5 | | | | | | | |
| FIR | 147.06 | 328 | ePKP | 30 | 32.00 | 2.5 | WB5 | 69.18 | 148 | eP | 33 | 33.20 | -0.6 | ODD1 | 1.97 | 128 | iP | 44 | 49.72 | 0.0 |
| BDI | 147.18 | 329 | PKP | 30 | 31.50 | 1.6 | WRA | 69.23 | 148 | Pd | 33 | 38.60 | 4.5X | | | | iSn | 45 | 12.10 | |
| ORO | 147.21 | 333 | PKPd | 30 | 32.00 | 2.1 | | 1.2s | 5.60nm | | | | 4.5mb | | | | iSg | 45 | 15.84 | |
| BOB | 147.22 | 331 | PKP | 30 | 22.60 | -7.3X | YKA | 70.59 | 17 | P | 33 | 42.30 | 0.3 | BLS3 | 2.28 | 138 | iP | 44 | 54.09 | -0.2 |
| MNS | 147.25 | 324 | PKP | 30 | 30.00 | 0.0 | ASPA | 72.45 | 150 | iPc | 33 | 54.60 | 1.1 | | | | eS | 45 | 17.64 | |
| FLN | 147.35 | 345 | ePKP | 30 | 30.80 | 0.9 | FFC | 80.31 | 14 | iPc | 34 | 37.30 | 0.0 | BLS1 | 2.41 | 136 | iP | 44 | 56.07 | 0.0 |
| LDF | 147.42 | 345 | ePKP | 30 | 31.00 | 1.0 | | 0.6s | 10.00nm | | | | 5.0mb | | | | iSn | 45 | 17.99 | |
| LOR | 147.44 | 339 | ePKP | 30 | 31.60 | 1.5 | SES | 82.36 | 21 | ePd | 34 | 49.20 | 1.0 | | | | iSg | 45 | 27.85 | |
| PII | 147.47 | 328 | PKP | 30 | 31.00 | 0.8 | BNG | 82.62 | 269 | ePd | 34 | 50.90 | 0.8 | RGS | 3.73 | 57 | eP | 45 | 15.40 | 0.7 |
| LBF | 147.64 | 339 | ePKP | 30 | 32.10 | 1.6 | | 0.6s | 8.00nm | | | | 5.0mb | | | | eSn | 45 | 54.50 | |
| SSF | 147.73 | 339 | ePKP | 30 | 32.40 | 1.9X | | | i | 34 | 55.60 | | | NRA0 | 3.92 | 93 | iPd | 45 | 15.70 | -1.7 |
| SOI | 147.74 | 315 | PKPd | 30 | 33.50 | 2.7X | ZOBO | 152.08 | 341 | PKP | 42 | 23.00 | 6.9X | | | | iPb | 45 | 23.40 | |
| GRR | 147.79 | 345 | ePKP | 30 | 32.30 | 1.7X | | S.D. = 1.0 on 28 of 37 obs. | | | | | | | | iPg | 45 | 26.40 | | |
| LPG | 147.83 | 334 | ePKP | 30 | 33.50 | 2.3X | | & FEB 14, 1989 19h 57m 00.90s | | | | | | | | iS | 45 | 58.40 | | |
| SMF | 147.98 | 339 | ePKP | 30 | 33.10 | 2.1X | | 48.392 N 118.746 W | | | | | | | | iSg | 46 | 13.80 | | |
| AVF | 148.02 | 339 | ePKP | 30 | 32.90 | 1.9X | | DEPTH = 9.6km | | | | | | | S.D. = 0.9 on 8 of 8 obs. | | | | | |
| LPF | 148.17 | 345 | ePKP | 30 | 33.30 | 2.1X | WASHINGTON | (29) | | | | | | | & FEB 14, 1989 21h 41m 10.59s | | | | | |
| BNI | 148.22 | 334 | PKPc | 30 | 35.50 | 3.9X | <SEA>. CL 2.9 (SEA). | | | | | | | | 48.429 N 122.228 W | | | | | |
| BGF | 148.40 | 340 | ePKP | 30 | 34.20 | 2.6X | | | | | | | | | DEPTH = 0.8km | | | | | |
| MAF | 148.78 | 340 | ePKP | 30 | 35.30 | 3.0X | DPW | 0.64 | 145 | iPd | 57 | 12.53 | -1.2 | | 3.6mb (2 obs.) | | | | | |
| TCF | 148.84 | 340 | ePKP | 30 | 35.30 | 2.9X | DHW2 | 0.80 | 240 | eP | 57 | 15.73 | -0.7 | WASHINGTON | (29) | | | | | |
| LSF | 149.09 | 341 | ePKP | 30 | 35.70 | 2.9X | SAW | 0.82 | 213 | eP | 57 | 16.01 | -0.8 | <SEA>. ML 4.2 (SEA). Minor | | | | | | |
| MFF | 149.26 | 343 | ePKP | 30 | 36.10 | 3.1X | WTV | 1.07 | 230 | eP | 57 | 20.15 | -0.9 | damage at Big Lake Elementary | | | | | | |
| CAF | 150.09 | 339 | ePKP | 30 | 38.90 | 4.6X | ODS | 1.09 | 180 | eP | 57 | 20.68 | -0.7 | School. Felt (V) at Arlington, | | | | | | |
| LFF | 150.51 | 341 | ePKP | 30 | 39.80 | 4.9X | | | eS | 57 | 36.04 | | Clearlake and Lyman; (IV) at | | | | | | | |
| LPO | 150.60 | 340 | ePKP | 30 | 40.10 | 5.1X | NLW | 1.11 | 254 | eP | 57 | 20.97 | -0.9 | Mount Vernon; (III) at Silvano | | | | | | |
| | S.D. = 1.5 on 71 of 92 obs. | | | | | | EPH | 1.19 | 209 | eP | 57 | 22.58 | -0.5 | ond (II) at Bow. Also felt at | | | | | | |
| | FEB 14, 1989 18h 22m 28.55±0.34s | | | | | | | | eS | 57 | 38.75 | | Burlington and Sedro Woolley. | | | | | | | |
| | 43.118 N ± 5.6km 102.567 E ± 5.3km | | | | | | WRD | 1.45 | 191 | eP | 57 | 25.49 | -1.7 | | | | | | | |
| | DEPTH = 33.0km (normol) | | | | | | CRF | 1.63 | 196 | eP | 57 | 27.92 | -1.8 | CMW | 0.07 | 94 | iPd | 41 | 12.37 | 0.3 |
| | 4.8mb (13 obs.) | | | | | | VTG | 1.66 | 211 | eP | 57 | 28.55 | -1.7 | OHW | 0.23 | 243 | iP | 41 | 15.05 | -0.1 |
| MONGOLIA | (334) | | | | | | OTH | 1.68 | 191 | eP | 57 | 29.05 | -1.5 | JCW | 0.31 | 140 | iPd | 41 | 16.30 | -0.5 |
| | | | | | | | BVW | 1.76 | 206 | eP | 57 | 33.94 | 2.2 | MBW | 0.42 | 31 | iPd | 41 | 19.13 | 0.2 |
| GTA | 4.25 | 210 | iPnd | 23 | 33.80 | 1.2 | RPW | 1.84 | 273 | eP | 57 | 34.75 | 1.8 | MCW | 0.47 | 302 | iPd | 41 | 19.28 | -0.8 |
| | | | Pg | 23 | 45.00 | | GBL | 1.86 | 195 | eP | 57 | 33.91 | 0.8 | RPW | 0.48 | 87 | iPd | 41 | 19.68 | -0.4 |
| | | | Sg | 24 | 39.00 | | MDW | 1.91 | 202 | eP | 57 | 33.04 | -0.8 | VDB | 0.60 | 8 | iPd | 41 | 22.41 | -0.2 |
| BTO | 6.11 | 112 | Pn | 23 | 53.60 | -5.4X | ETP | 1.94 | 186 | eP | 57 | 31.94 | -2.3 | BLH | 0.61 | 167 | iPd | 41 | 22.31 | -0.4 |
| | | | Pg | 24 | 21.00 | | | 16 obs. associated | | | | | | | | eS | 41 | 31.49 | | |
| | | | Sn | 25 | 16.50 | | | | | | | | | | | | | | | |
| | | | Sg | 25 | 42.20 | | * FEB 14, 1989 20h 19m 19.61±1.08s | | | | | | BLN | 0.65 | 230 | iPc | 41 | 22.70 | -0.9 | |
| HHC | 7.08 | 106 | Pnc | 24 | 11.20 | -1.4 | 14.813 N ±16.1km 93.663 W ± 9.7km | | | | | | PGW | 0.66 | 202 | iP | 41 | 23.31 | -0.4 | |
| | | | Sn | 25 | 33.20 | | DEPTH = 76.0 ± 10.4 km | | | | | | HTW | 0.70 | 154 | iPd | 41 | 23.46 | -1.1 | |
| | | | Sg | 26 | 14.60 | | 3.9mb (1 obs.) | | | | | | SNB | 0.72 | 299 | P | 41 | 23.70 | -1.2 | |
| LZH | 7.09 | 172 | Pn | 24 | 14.00 | 1.2 | NEAR COAST OF CHIAPAS, MEXICO (69) | | | | | | VGZ | 0.73 | 269 | iPd | 41 | 23.48 | -1.7 | |
| | | | e | 24 | 25.00 | | | | | | | | PGC | 0.84 | 286 | eP | 41 | 25.00 | -2.4 | |
| | | | S | 26 | 12.50 | | | | | | | | SPW | 0.88 | 181 | eP | 41 | 27.71 | -0.4 | |
| TIY | 9.26 | 122 | eP | 24 | 46.30 | 3.5X | TPX | 1.36 | 86 | iP | 19 | 43.50 | 0.2 | | | | eS | 41 | 39.60 | |
| | E | 10s | 1.00um | | | | OC2 | 1.45 | 100 | ePd | 19 | 45.00 | 0.5 | HNB | 0.88 | 345 | iPd | 41 | 26.51 | -1.6 |
| XAN | 10.34 | 149 | eP | 24 | 55.30 | -2.3 | | | S | 20 | 00.50 | | GMW | 0.96 | 203 | iPc | 41 | 27.69 | -2.0 | |
| BJI | 10.65 | 102 | P | 25 | 02.00 | 0.2 | KKG | 1.58 | 84 | iP+ | 19 | 45.00 | -1.4 | | | | eS | 41 | 42.08 | |
| | Z | 12s | 0.60um | | | | SBG | 1.59 | 78 | eP+ | 19 | 45.50 | -1.2 | HDW | 0.96 | 216 | iPc | 41 | 27.52 | -2.2 |
| | | | Lg | 28 | 03.00 | | SOG | 2.01 | 91 | eP | 19 | 52.00 | -0.4 | STW | 1.00 | 254 | iPc | 41 | 28.42 | -2.0 |
| WMO | 10.84 | 279 | eP | 25 | 02.20 | -2.3 | JAT | 2.02 | 104 | eP+ | 19 | 52.00 | -0.3 | | | | eS | 41 | 41.99 | |
| CD2 | 12.22 | 175 | eP | 25 | 32.10 | 8.9X | SOG2 | 2.03 | 92 | ePd | 19 | 54.20 | 1.7 | RMW | 1.01 | 164 | iPd | 41 | 29.26 | -1.4 |
| CN2 | 16.62 | 80 | Pc | 26 | 21.80 | 1.3 | SCX | 2.15 | 27 | iP | 19 | 55.00 | 1.0 | OSD | 1.16 | 239 | iP | 41 | 31.64 | -1.6 |
| | | | pP | 26 | 25.00 | | ITG | 2.74 | 94 | ePd | 20 | 02.80 | 0.4 | BIB | 1.21 | 324 | iPd | 41 | 32.00 | -1.9 |
| GYA | 16.95 | 167 | P | 26 | 29.00 | 4.1X | FUG | 2.76 | 97 | eP | 20 | 02.10 | -0.5 | MEW | 1.26 | 193 | eP | 41 | 33.46 | -1.3 |
| SHL | 19.57 | 210 | iP | 26 | 56.00 | -0.9 | | | S | 20 | 37.00 | | GSM | 1.26 | 166 | eP | 41 | 33.28 | -1.7 | |
| KSH | 20.28 | 269 | eP | 27 | 08.20 | 4.1X | MMG | 2.90 | 95 | eP+ | 20 | 05.00 | 0.3 | OBC | 1.30 | 253 | eP | 41 | 33.52 | -2.0 |
| GUN | 20.31 | 227 | P | 27 | 04.60 | -0.1 | BVA | 2.93 | 92 | eP | 20 | 00.50 | -4.6X | NLW | 1.31 | 105 | eP | 41 | 34.51 | -1.3 |
| KKN | 20.73 | 228 | P | 27 | 09.00 | 0.1 | REC | 3.06 | 97 | ePd | 20 | 03.00 | -3.9X | SMW | 1.34 | 214 | eP | 41 | 34.06 | -2.2 |
| | 0.7s | | 38.00nm | | | | IXG | 3.17 | 101 | eP+ | 20 | 08.60 | 0.2 | LON | 1.70 | 170 | ePc | 41 | 40.40 | -1.3 |
| PKI | 20.83 | 227 | P | 27 | 10.20 | 0.1 | | | S | 20 | 47.00 | | PNT | 1.94 | 62 | eP | 41 | 44.20 | -0.9 | |
| | 0.6s | | 27.00nm | | | | YUP | 3.79 | 99 | eP+ | 20 | 13.00 | -4.0X | BMW | 2.07 | 200 | eP | 41 | 45.50 | -1.5 |
| GKN | 20.92 | 230 | P | 27 | 10.60 | -0.2 | MRL | 3.85 | 86 | eP | 20 | 13.20 | -4.6X</ | | | | | | | |

14d 21h

VGB 3.08 161 eP 42 00.70 -0.7
 LNOR 3.71 132 eP 42 09.10 -1.3
 LBFM 7.09 178 eP 42 58.00 -0.2
 LRM 7.16 108 ePn 42 56.50 -2.8
 HRY 7.24 100 ePn 42 55.30 -5.0
 SES 7.56 71 eP 43 13.00 8.4
 KVN 9.84 161 eP 43 34.00 -2.4
 FFC 14.05 56 eP 44 29.00 -4.0
 1.2s 2.00nm 3.8mb
 YKA 14.73 14 P 44 46.90 5.2
 RSON 18.58 72 eP 45 32.50 1.8
 0.5s 1.72nm 3.5mb
 INK 20.73 348 eP 45 57.00 2.3
 43 obs. associated

* FEB 14, 1989 22h 25m 41.48±1.70s
 7.034 N ±13.2km 72.885 W ±19.1km
 DEPTH = 142.0 ± 20.3 km
 4.6mb (3 obs.)

NORTHERN COLOMBIA

(99)

FUQ 1.77 209 eP 26 14.50 0.3
 BOG 2.67 206 iPc 26 26.00 0.8
 1s 26 56.50
 UPA 6.86 287 e(P) 27 18.70 -2.2
 PSO 7.30 218 eP 27 28.00 0.8
 ZOBO 23.63 169 P 30 41.00 -0.5
 LPB 23.89 169 eP 30 52.00 8.2X
 CNCB 24.18 168 P 30 46.00 -0.8
 FRB 56.69 2 eP 35 12.00 0.0
 YKA 63.15 340 P 35 56.70 0.7
 TIC 67.33 86 P 36 22.88 -0.8
 LIC 67.35 86 Pc 36 23.16 -0.7
 KIC 67.63 86 Pc 36 24.92 -0.6
 0.6s 17.00nm 5.0mb
 MBC 73.64 350 eP 37 02.00 1.4
 0.6s 9.00nm 4.7mb
 NB2 81.03 29 P 37 43.10 1.5
 0.7s 1.90nm 3.9mb
 ASPA 149.43 234 iPKPc 45 14.40 3.1X
 0.8s 8.00nm
 WB5 150.64 242 iPKPc 45 17.70 4.5X
 S.D. = 1.2 on 13 of 16 obs.

* FEB 14, 1989 22h 48m 13.82±0.41s
 17.921 S ±14.3km 167.899 E ±14.7km
 DEPTH = 33.0km (normal)
 4.8mb (1 obs.)

VANUATU ISLANDS

(186)

PVC 0.43 65 iPd 48 22.80 -0.6
 1s 48 32.00
 DZM 4.35 198 iPc 49 19.90 0.5
 1s 50 12.10
 RMO 19.65 241 iPd 52 42.30 -0.7
 BWA 23.92 223 eP 53 24.60 -1.2
 CMS 24.11 232 eP 53 28.00 0.4
 CAN 24.13 220 eP 53 29.00 1.2
 STK 27.52 235 eP 53 58.00 -1.5
 WB5 31.76 261 eP 54 32.00 -5.4X
 ASPA 32.24 254 iPd 54 36.80 -4.8X
 1.0s 13.00nm 4.8mb
 Z 22s 0.52um 4.2mszX
 epP 54 45.90 32kmX
 LR 06 26.10
 CHG 76.95 295 eP 00 06.00 0.7
 KBA 144.18 330 e(PKP) 07 41.00 -7.2X
 0.8s 2.90nm
 WLF 145.08 339 PKPd 07 45.30 -4.0X
 DOU 145.22 341 PKPc 07 45.00 -4.6X
 CDF 145.74 337 ePKP 07 46.60 -4.1X
 BSF 146.40 337 ePKP 07 48.50 -3.3X
 HAU 146.42 337 ePKP 07 48.70 -3.0X
 BNG 147.16 250 ePKPc 07 54.60 0.7
 0.6s 11.00nm
 i 08 03.00
 FIR 147.56 328 ePKP 07 50.00 -3.6X
 FLN 147.82 346 ePKP 07 52.20 -1.7
 LOR 147.93 339 ePKP 07 52.90 -1.2
 LBF 148.13 339 ePKP 07 53.40 -1.1
 SSF 148.22 340 ePKP 07 53.80 -0.8
 GRR 148.26 346 ePKP 07 53.50 -1.1
 LPG 148.33 334 ePKP 07 54.70 -0.5
 SMF 148.47 339 ePKP 07 54.40 -0.6
 AVF 148.51 339 ePKP 07 54.30 -0.7
 LPF 148.64 346 ePKP 07 54.70 -0.5
 BGF 148.88 340 ePKP 07 55.50 -0.2

MAF 149.27 340 ePKP 07 56.60 0.3
 TCF 149.33 340 ePKP 07 56.60 0.2
 LSF 149.58 341 ePKP 07 56.90 0.2
 MFF 149.74 344 ePKP 07 57.40 0.5
 RJF 150.42 340 ePKP 07 59.70 1.7
 CAF 150.58 339 ePKP 08 00.10 1.8
 LFF 151.00 341 ePKP 08 00.90 2.0
 LPO 151.08 340 ePKP 08 01.30 2.3
 S.D. = 1.2 on 27 of 36 obs.

& FEB 14, 1989 23h 46m 05.70s

40.547 N 124.843 W

DEPTH = 5.0km

NEAR COAST OF NORTHERN CALIF. (35)

<BRK>. ML 3.3 (BRK).

FHC 0.70 68 iPc 46 19.50 -0.2
 eS 46 29.10
 WDC 1.76 88 iPc 46 34.80 -2.2
 LTCM 2.10 98 eP 46 40.20 -1.8
 LBFM 2.37 69 eP 46 44.50 -1.7
 MIN 2.48 94 eP 46 44.60 -3.0
 ORV 2.75 110 eP 46 48.60 -2.7
 6 obs. associated

% FEB 15, 1989 00h 04m 04.01±0.39s

36.999 N ±3.8km 3.988 W ±3.9km

DEPTH = 10.0km (geophysicist)

STRAIT OF GIBRALTAR (385)

MG 3.4 (MDD). Felt (III) in the

Alhomo de Gronado oreo.

AFC 0.44 54 iPgC 04 12.60 -0.4
 eSg 04 18.60
 EBAN 1.17 8 iPgD 04 26.20 0.2
 eSg 04 41.90
 EHOR 1.29 310 ePn 04 27.70 -0.3
 eSn 04 46.10
 EJIF 1.31 246 ePn 04 28.90 0.7
 eSn 04 46.10
 ENIJ 1.42 91 iPnc 04 30.40 0.5
 OJEN 1.54 235 eP 04 36.00 4.5X
 PLAT 1.67 239 eP 04 39.50 6.0X
 CNIL 1.77 250 eP 04 46.00 11.1X
 EMEL 1.89 153 ePn 04 36.00 -0.6
 EVIA 2.01 35 ePn 04 38.50 0.0
 eSn 05 03.50
 EVAL 2.28 286 ePn 04 42.00 -0.2
 eSn 05 10.10
 TOL 2.88 359 ePn 04 51.00 0.2
 ePb 04 59.00
 ePg 05 03.00
 eSg 05 38.00
 EPLA 3.47 332 ePn 04 59.10 -0.1
 eSn 05 39.30
 ECHE 3.51 42 ePn 05 00.30 0.5
 eSn 05 41.00
 IFR 3.60 195 iP 05 01.00 -0.1
 GUD 3.64 358 ePn 05 01.30 -0.4
 eSn 05 43.50
 ETOR 4.10 21 ePn 05 08.00 -0.2
 S.D. = 0.4 on 14 of 17 obs.

FEB 15, 1989 00h 05m 35.85±0.35s

42.006 N ±4.2km 142.511 E ±4.2km

DEPTH = 69.8 ± 3.5 km

4.9mb (32 obs.)

HOKKAIDO, JAPAN REGION (224)

Felt (III JMA) at Urukawa and (I

JMA) at Hiroo and Tomokomoi.

URA 0.25 53 iP+ 05 46.70 -0.1
 S 05 54.70
 HOO 0.66 65 P 05 00.00 -50.5X
 HOOJ 0.69 57 iP+ 05 50.70 -0.1
 S 06 01.60
 TMR 0.93 313 eP 05 00.00 -53.7X
 MRRJ 1.15 292 iPd 05 56.20 -0.3
 S 06 11.90
 KUSJ 1.96 55 iPd 06 07.10 -0.4
 eS 06 31.40
 ASAJ 2.11 3 iPd 06 10.30 0.7
 eS 06 35.40
 ADMJ 2.16 229 P 06 11.40 1.1
 S 06 37.30
 OFUJ 2.99 193 P 06 21.20 -0.7
 S 06 56.50

YAMJ 4.27 207 iPd 06 40.10 0.2
 NIJJ 5.48 211 P 06 56.70 0.0
 KAKJ 6.07 198 P 07 01.50 -3.5X
 S 08 08.60
 MAT 6.40 213 (P) 07 09.00 -0.5
 0.8s 20.90nm 4.7mb
 (S) 08 23.00
 MTMJ 6.53 216 P 07 12.10 0.7
 CHJJ 6.55 206 P 07 10.20 -1.4
 S 08 29.00
 IIDJ 7.44 210 P 07 25.10 1.1
 TSRJ 8.23 220 P 07 36.50 1.7
 MDJ 9.77 290 eP 07 56.00 0.0
 CN2 12.64 284 P 08 35.00 0.6
 BJI 19.94 273 eP 10 01.50 -3.1X
 TIA 20.50 262 Pd 10 07.00 -3.3X
 WHN 25.31 252 eP 10 56.50 -0.9
 XAN 27.50 264 eP 11 15.40 -2.1
 CD2 32.82 263 eP 12 02.70 -2.0
 GYA 33.17 254 P 12 06.00 -1.8
 WMQ 39.57 292 P 13 02.00 0.3
 IMA 42.02 33 P 13 21.10 -0.5
 KDC 42.97 45 P 13 28.90 -0.3
 0.7s 6.98nm 4.6mb
 CHG 43.51 251 iPc 13 34.80 0.7
 0.9s 8.40nm 4.5mb
 FBA 44.49 35 P 13 41.30 -0.2
 0.5s 4.86nm 4.6mb
 SHL 44.51 265 iP 13 41.70 -0.6
 GUN 47.68 272 P 14 07.70 0.1
 KKN 48.19 272 P 14 11.40 0.0
 PKI 48.22 272 P 14 11.60 -0.1
 0.6s 19.00nm 5.2mb
 DMN 48.42 272 P 14 13.40 0.2
 0.6s 20.00nm 5.3mb
 GKN 48.56 273 P 14 14.00 -0.1
 0.5s 22.00nm 5.4mb
 INK 49.61 29 eP 14 19.00 -2.4
 MBC 51.53 18 eP 14 35.00 -1.0
 NDI 53.70 278 iPc 14 52.20 -0.5
 YKA 59.11 32 P 15 30.90 0.0
 KEV 59.12 339 eP 15 38.00 7.2X
 QUE 60.36 285 eP 15 39.50 -0.6
 SOD 60.73 336 iP 15 40.60 -1.3
 KJF 62.44 333 iP 15 52.10 -1.3
 GBA 62.53 264 Pc 15 53.80 -0.8
 0.9s 14.60nm 5.1mb
 BMW 63.67 50 P 16 02.40 0.6
 SUF 63.95 333 iP 16 01.80 -1.5
 0.5s 7.20nm 4.9mb
 DPW 65.67 47 P 16 15.00 0.2
 ASPA 65.82 189 iPd 16 15.50 -0.3
 1.2s 7.00nm 4.5mb
 NUR 65.98 331 iP 16 15.00 -1.4
 LBFM 67.42 54 P 16 27.50 1.3
 SES 67.84 42 eP 16 29.00 0.6
 ORV 68.73 56 P 16 34.40 0.3
 FFC 69.09 34 iPc 16 35.60 -0.4
 0.9s 19.00nm 5.0mb
 HFS 69.92 335 eP 16 39.90 -1.0
 0.4s 13.50nm 5.2mb
 NB2 69.94 337 P 16 40.20 -0.9
 0.6s 8.60nm 4.9mb
 LRM 70.04 46 eP 16 42.80 0.5
 FRB 71.75 14 eP 16 51.00 -0.9
 BW06 73.61 47 P 17 04.00 0.5
 0.8s 4.73nm 4.5mb
 RSON 75.34 33 P 17 12.40 -0.7
 0.5s 4.77nm 4.7mb
 KRA 75.46 326 iPd 17 14.30 0.6
 VRI 75.50 319 eP 17 16.00 2.0
 MLR 76.15 320 eP 17 18.00 0.1
 e 43 34.00
 KSP 76.33 328 eP 17 18.50 -0.1
 CLL 77.21 330 iP 17 23.50 0.1
 PRU 77.69 329 P 17 26.60 0.5
 KHC 78.75 329 Pc 17 32.50 0.5
 e 17 51.50
 GRF 79.19 330 eP 17 35.30 0.9
 0.7s 13.00nm 5.0mb
 MEM 80.25 334 P 17 44.20 4.3X
 KBA 80.50 328 iPd 17 42.50 0.8
 0.8s 3.30nm 4.3mb
 SKO 80.95 320 e(P) 17 44.80 1.0
 NOH 81.66 304 eP 17 48.50 0.6
 CDF 81.69 332 eP 17 47.90 0.2
 0.8s 5.30nm 4.5mb

15d 00h

OHR 81.91 320 e(P) 17 49.30 0.3
 BSF 82.35 332 eP 17 51.00 -0.2
 MBH 82.35 303 iPd 17 52.50 1.2
 LOR 83.85 333 eP 17 59.20 0.4
 0.8s 10.70nm 4.9mb
 FLN 83.91 336 eP 17 59.00 0.0
 0.8s 8.00nm 4.8mb
 LDF 83.95 336 eP 17 59.30 0.1
 LBF 84.06 333 eP 17 59.90 0.0
 0.8s 9.40nm 4.9mb
 SSF 84.15 333 eP 18 00.60 0.4
 0.8s 4.50nm 4.6mb
 LPG 84.35 330 eP 18 02.40 0.7
 0.6s 5.40nm 4.8mb
 GRR 84.36 336 eP 18 00.80 -0.5
 SMF 84.40 333 eP 18 01.80 0.3
 0.8s 10.70nm 4.9mb
 AVF 84.44 333 eP 18 02.20 0.5
 0.6s 14.40nm 5.2mb
 LPF 84.73 336 eP 18 03.20 0.1
 BGF 84.81 333 eP 18 03.90 0.3
 1.0s 6.80nm 4.6mb
 MAF 85.20 333 eP 18 06.50 1.0
 0.8s 16.10nm 5.1mb
 LSF 85.51 334 eP 18 07.70 0.6
 0.8s 10.70nm 5.0mb
 MFF 85.74 335 eP 18 09.00 0.8
 0.6s 5.40nm 4.8mb
 GAC 86.33 26 eP 18 11.00 -0.1
 CAF 86.50 333 eP 18 13.60 1.5
 0.8s 16.10nm 5.2mb
 LFF 86.93 334 eP 18 15.30 1.2
 0.8s 11.80nm 5.1mb
 LPO 87.01 333 eP 18 15.80 1.3
 0.6s 9.00nm 5.1mb
 CVL 92.07 31 P 18 37.00 -1.3
 S.D. = 0.9 on 88 of 95 obs.

? FEB 15, 1989 00h 15m 12.33±1.86s
 32.668 S ±10.7km 69.020 W ±28.1km
 DEPTH = 33.0km (normol)
 MENDOZA PROVINCE, ARGENTINA (139)

MDZ 0.26 146 eP 15 19.70 0.0
 eS 15 41.80
 RTCV 0.90 27 iPd 15 29.80 1.1
 S 15 56.50
 RTCB 1.19 9 iPc 15 34.00 1.1
 S 16 04.80
 CFA 1.25 32 ePc 15 32.50 -1.1
 RTLL 1.41 19 iPc 15 35.40 -0.6
 S 16 07.10
 RTRS 2.52 351 iPc 15 51.20 -0.6
 S 16 34.00
 S.D. = 1.2 on 6 of 6 obs.

* FEB 15, 1989 00h 57m 17.53±0.95s
 42.656 N ±9.6km 143.598 E ±10.1km
 DEPTH = 24.8 ±10.3 km
 HOKKAIDO, JAPAN REGION (224)
 Felt (I JMA) at Hiroo and
 Obihiro.

HOOJ 0.36 220 iPd 57 26.60 1.2
 S 57 33.10
 OBI 0.38 314 eP 57 26.00 0.2
 S 57 33.00
 HOO 0.43 209 P 57 00.00 -26.5X
 KUSJ 0.93 61 iPd 57 34.10 -0.7
 S 57 46.50
 ASAJ 1.62 335 P 57 44.40 -0.4
 eS 58 07.40
 MRRJ 1.88 264 P 57 47.50 -1.1
 S 58 10.30
 AOMJ 3.20 230 eP 58 07.70 0.4
 eS 58 45.40
 OFUJ 3.86 203 P 58 15.50 -1.2
 S 58 58.60
 YKA 58.14 32 P 07 12.60 1.6
 S.D. = 1.4 on 8 of 9 obs.

& FEB 15, 1989 01h 05m 56.40s
 62.017 N 124.311 W
 DEPTH = 10.0km (geophysicist)
 NORTHWEST TERRITORIES, CANADA (679)
 <PGC>. mbLg 3.3 (PGC).

DLB 4.60 221 Pn 07 08.00 0.3
 YKC 4.62 80 Pn 07 06.50 -1.4
 Sn 07 57.60
 HYT 6.44 265 P 07 33.00 -0.7
 INK 7.40 332 eP 07 44.00 -3.0
 MNB 10.35 159 ePn 08 24.00 -4.1
 EDM 10.58 141 eP 08 26.50 -4.5
 FFC 13.75 112 eP 09 04.00 -9.5
 MBC 14.39 5 eP 09 15.00 -6.8
 8 obs. associated

& FEB 15, 1989 01h 11m 29.76s
 48.417 N 122.218 W
 DEPTH = 0.0km
 WASHINGTON (29)
 <SEA>. CL 2.4 (SEA). Felt in the
 Mount Vernon and Big Lake areas.

CMW 0.07 84 iPd 11 31.42 0.3
 OHW 0.23 246 eP 11 34.07 -0.3
 eS 11 38.20
 JCW 0.30 139 iPd 11 35.30 -0.4
 eS 11 40.50
 MBW 0.42 30 eP 11 38.34 0.1
 RPW 0.47 86 eP 11 38.68 -0.5
 MCW 0.49 303 eP 11 38.23 -1.2
 BLH 0.59 168 eP 11 41.34 -0.3
 BLN 0.65 231 eP 11 41.86 -0.9
 HTW 0.68 154 eP 11 42.45 -1.0
 SPW 0.86 181 eP 11 46.98 0.0
 GMW 0.95 204 eP 11 46.71 -2.0
 HDW 0.95 216 eP 11 46.52 -2.3
 RMW 1.00 164 eP 11 48.27 -1.4
 STW 1.01 255 eP 11 47.46 -2.3
 OSD 1.16 240 eP 11 50.68 -1.8
 GSM 1.25 167 eP 11 52.47 -1.5
 NLW 1.30 104 eP 11 54.18 -0.7
 17 obs. associated

FEB 15, 1989 01h 23m 31.96±0.42s
 42.542 N ±5.5km 84.584 E ±6.0km
 DEPTH = 33.0km (normol)
 4.3mb (4 obs.)
 NORTHERN XINJIANG, CHINA (332)

WMQ 2.61 60 iPnd 24 14.20 1.4
 GTA 11.93 100 P 26 22.60 -0.2
 GKN 14.51 180 P 26 57.00 0.1
 0.6s 8.00nm 4.4mb
 GUN 14.64 175 P 26 58.30 -0.5
 KKN 14.73 178 P 27 00.80 0.9
 0.6s 9.00nm 4.4mb
 DMN 14.90 178 P 27 01.40 -0.8
 PKI 14.95 177 P 27 03.40 0.5
 0.6s 9.00nm 4.3mb
 NDI 15.06 206 eP 27 00.00 -4.0X
 LZH 16.22 107 eP 27 20.00 0.9
 QUE 18.76 235 eP 27 51.30 0.6
 HHC 20.19 86 eP 28 06.60 0.0
 MHI 20.32 261 iPc 28 08.00 0.0
 XAN 20.85 106 eP 28 12.60 -0.8
 TIY 21.79 93 eP 28 26.20 3.4X
 N 10s 0.50um

GYA 24.15 125 P 28 55.00 8.9X
 HYB 25.57 193 eP 28 59.00 -0.6
 CHG 26.60 148 eP 29 14.00 4.9X
 KJF 38.51 324 eP 30 53.00 0.6
 SUF 39.09 321 iP 30 58.50 1.2
 SOD 39.38 329 eP 31 18.00 18.3X
 KEV 39.70 333 eP 31 18.00 15.8X
 NB2 46.26 320 P 31 55.60 0.0
 0.7s 2.50nm 4.3mb
 MBC 60.50 6 eP 33 39.00 -1.5
 JNK 65.85 15 eP 34 14.00 -1.8
 WB5 77.21 133 eP 35 30.00 5.7X
 S.D. = 0.9 on 18 of 25 obs.

% FEB 15, 1989 01h 54m 06.58±0.82s
 37.009 N ±9.2km 3.985 W ±5.6km
 DEPTH = 10.0km (geophysicist)
 SPAIN (377)
 MG 2.8 (MDD).

AFC 0.43 55 ePg 54 14.50 -0.9
 eSg 54 20.20
 EBAN 1.16 8 ePg 54 28.50 0.2
 eSg 54 45.00

EHOR 1.29 309 ePn 54 30.20 -0.3
 eSn 54 49.00
 EJIF 1.32 245 ePn 54 30.70 -0.2
 eSn 54 49.20
 ENIJ 1.42 91 ePn 54 32.70 0.3
 eSn 54 51.50
 EVIA 2.00 35 ePn 54 41.60 0.7
 eSn 55 06.00
 EVAL 2.28 285 ePn 54 45.00 0.2
 eSn 55 12.30
 GUD 3.63 358 ePg 55 15.00 10.9X
 eSg 55 57.30
 S.D. = 0.6 on 7 of 8 obs.

FEB 15, 1989 02h 15m 38.49±0.51s
 40.809 N ±3.9km 28.038 E ±5.0km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

CTT 0.45 41 iPg 15 47.30 -0.3
 eSg 15 52.80
 BNT 0.46 191 iPg 15 47.50 -0.4
 EDC 0.48 196 iPg 15 48.50 0.2
 eSg 15 55.50
 KCT 0.61 156 iPg 15 51.00 0.2
 iSg 16 01.00
 ISK 0.82 71 ePg 15 53.30 -1.0
 eSg 16 05.30
 DMK 1.03 348 iPg 15 58.00 0.0
 iSg 16 12.00
 YLV 1.04 103 iPn 15 58.00 -0.2
 GBZT 1.07 91 ePg 15 58.50 -0.1
 iSg 16 13.50
 DST 1.28 159 iPn 16 02.10 -0.2
 EZN 1.64 234 iPn 16 06.90 -0.5
 GPA 1.81 106 ePn 16 11.60 1.7
 TLB 3.78 360 eP 16 53.00 15.0X
 VAY 4.17 279 e(P) 16 49.00 5.5X
 MLR 4.92 343 eP 16 55.00 0.6
 VRI 5.15 350 eP 17 03.00 5.6X
 S.D. = 0.7 on 12 of 15 obs.

FEB 15, 1989 03h 27m 57.23±1.27s
 8.073 S ±8.2km 117.435 E ±9.2km
 DEPTH = 213.5 ±14.0 km
 4.8mb (14 obs.)
 SUMBAWA ISLAND REGION (285)

TRT 4.77 274 iPd 29 11.00 1.4
 iS 30 09.40
 KUPT 6.43 109 ePc 28 58.50 -32.5X
 eS 30 05.00
 MBL 13.22 170 iPd 30 56.60 -1.5
 0.3s 41.00nm 5.3mb
 i 31 07.10
 eS 33 17.00
 KNA 13.45 126 eP 31 01.00 -0.1
 eS 33 23.00
 NANU 14.52 187 eP 31 13.00 -1.3
 e 31 16.00
 e 31 28.00
 eS 33 43.00
 KSI 15.41 286 ePd 31 26.00 0.8
 e 33 00.00
 MEKA 18.47 177 iPd 31 59.40 -0.2
 0.4s 43.00nm 5.3mb
 e 32 20.00
 eS 35 20.00
 WARB 20.03 155 eP 32 07.60 -7.9X
 e 32 30.00
 eS 36 00.00
 WB5 20.17 127 eP 32 16.00 -0.9
 eS 35 49.00
 WRA 20.18 128 Pc 32 16.40 -0.7
 0.5s 18.10nm 4.9mb
 MRWA 21.08 183 eP 32 25.00 -0.8
 e 32 54.00
 eS 36 28.00
 PSI 21.34 299 ePc 32 29.00 0.6
 ASPA 22.12 136 iPd 32 36.80 0.7
 0.4s 57.00nm 5.5mb
 eS 36 28.00
 BAL 22.43 182 eP 32 39.00 0.1
 e 33 11.00
 eS 36 56.00
 COOL 22.96 172 iPd 32 43.80 -0.3
 0.4s 12.00nm 4.8mb

[illegible]

15d 10h

| | | | | |
|------|--------|----------|----------|-------|
| MSZ | 75.84 | 190 P | 17 01.00 | 0.6 |
| CAN | 85.67 | 176 eP | 17 52.60 | -0.1 |
| BWA | 86.54 | 175 eP | 17 57.20 | 0.2 |
| FORR | 87.62 | 158 iPd | 18 02.90 | 0.7 |
| | 0.4s | 13.00nm | | 5.6mb |
| ASPA | 95.68 | 161 iPc | 18 39.30 | -0.5 |
| | 0.8s | 8.00nm | | 5.2mb |
| NB2 | 123.32 | 20 PKP | 24 09.60 | -0.3 |
| | 0.9s | 4.50nm | | |
| DMN | 123.84 | 92 PKP | 24 11.90 | -0.4 |
| | 0.6s | 10.00nm | | |
| GKN | 123.92 | 92 PKP | 24 11.50 | -0.8 |
| | 0.5s | 9.00nm | | |
| PKI | 123.96 | 93 PKP | 24 12.00 | -0.6 |
| | 0.6s | 9.00nm | | |
| KKN | 124.08 | 92 PKP | 24 12.20 | -0.5 |
| | 0.6s | 12.00nm | | |
| GUN | 124.48 | 93 PKP | 24 13.30 | -0.3 |
| LRM | 126.40 | 300 ePKP | 24 17.40 | 0.7 |
| FRB | 126.94 | 338 ePKP | 24 16.00 | -0.7 |
| YKC | 139.02 | 315 iPKP | 24 39.00 | -0.6 |
| YKA | 139.08 | 315 PKP | 24 39.60 | -0.1 |
| ALE | 142.78 | 353 ePKP | 24 42.50 | -3.4X |
| | 0.6s | 11.00nm | | |
| MBC | 147.24 | 334 ePKP | 24 55.00 | 1.6 |
| INK | 148.77 | 317 ePKP | 24 54.00 | -2.1 |
| BJI | 149.29 | 112 ePKP | 25 02.00 | 4.3X |

S.D. = 0.7 on 29 of 31 obs.

FEB 15, 1989 10h 10m 08.46 ± 1.39s
 37.290 N ± 9.8km 50.304 E ± 6.5km
 DEPTH = 53.1 ± 14.5 km
 4.6mb (6 obs.)

CASPIAN SEA (338)

| | | | | |
|-----|-------|---------|----------|---------|
| TEH | 1.78 | 150 ePc | 10 38.00 | 0.6 |
| TAB | 3.25 | 285 eP | 11 06.00 | 7.7X |
| KER | 3.92 | 222 eP | 11 08.00 | 0.3 |
| SLY | 4.22 | 248 iPn | 11 24.00 | 12.2X |
| | | iPg | 11 45.50 | |
| | | i | 11 58.00 | |
| | | iSn | 12 21.00 | |
| | | iS* | 12 35.00 | |
| | | iSg | 12 50.50 | |
| MSL | 5.81 | 263 ePc | 11 52.00 | 17.8X |
| | | eS | 13 10.50 | |
| BHD | 6.28 | 232 eP | 12 05.00 | 24.2X |
| | | iS | 13 31.00 | |
| | | e | 13 47.00 | |
| | | e | 14 41.00 | |
| MHI | 7.44 | 95 iPd | 11 55.20 | -1.9 |
| | 0.5s | 98.59nm | | 5.8mb X |
| | | eSn | 13 11.00 | |
| ISR | 19.47 | 301 eP | 14 39.00 | 5.3X |
| VRI | 19.56 | 303 eP | 14 36.00 | 1.4 |
| MLR | 19.97 | 302 ePd | 14 40.00 | 0.9 |
| KSH | 20.23 | 76 eP | 14 40.50 | -1.3 |
| NDI | 24.09 | 103 eP | 15 22.00 | 2.0 |
| WMO | 28.97 | 65 eP | 16 04.50 | -0.5 |
| SUF | 29.46 | 337 iP | 16 08.30 | -0.7 |
| KJF | 30.15 | 340 eP | 16 24.00 | 8.8X |
| GKN | 30.22 | 98 P | 16 17.60 | 1.2 |
| | 0.5s | 5.00nm | | 4.5mb |
| DMN | 30.77 | 98 P | 16 22.70 | 1.4 |
| | 0.6s | 11.00nm | | 4.8mb |
| GUN | 31.24 | 97 P | 16 29.90 | 4.3X |
| | 0.6s | 11.00nm | | 4.8mb |
| GBA | 33.79 | 127 Pd | 16 47.60 | 0.2 |
| | 0.9s | 6.00nm | | 4.5mb |
| NB2 | 34.08 | 327 P | 16 49.00 | -0.6 |
| | 0.7s | 2.30nm | | 4.2mb |
| CHG | 46.17 | 100 eP | 18 30.50 | 0.8 |
| XAN | 47.08 | 75 eP | 18 36.80 | 0.0 |
| PTZ | 54.28 | 203 iPd | 19 31.20 | -0.4 |
| KMZ | 55.48 | 209 iPc | 19 40.70 | 0.4 |
| PSI | 56.30 | 116 ePd | 19 44.40 | -1.8 |
| KIC | 58.63 | 253 P | 20 00.90 | -1.7 |
| | 1.0s | 28.00nm | | 5.3mb |
| LIC | 58.94 | 253 P | 20 03.20 | -1.6 |
| MBC | 66.55 | 357 eP | 20 54.00 | -0.4 |
| FRB | 68.34 | 335 eP | 21 06.00 | 0.2 |
| YKA | 79.82 | 353 P | 22 13.60 | 1.5 |

S.D. = 1.2 on 23 of 30 obs.

FEB 15, 1989 10h 28m 44.03 ± 0.25s
 2.481 N ± 4.0km 126.589 E ± 6.5km

| DEPTH = 33.0km (normal) | | | | |
|-------------------------|--------|-----------|----------|---------|
| 5.0mb (11 obs.) | | | | |
| MOLUCCA PASSAGE (266) | | | | |
| MNI | 2.03 | 239 iPd | 29 22.70 | 6.1X |
| | | eS | 29 49.50 | |
| DAV | 4.69 | 348 eP | 30 00.90 | 6.6X |
| PCI | 7.54 | 244 eP | 30 35.50 | 1.0 |
| | | eS | 31 21.80 | |
| TSM | 8.68 | 282 eP | 30 49.20 | -1.1X |
| JAY | 14.96 | 109 ePd | 32 19.50 | 4.6X |
| BAG | 15.05 | 337 eP | 32 20.50 | 4.2X |
| KNA | 18.24 | 173 eP | 32 56.00 | -0.5 |
| GUMO | 21.17 | 58 e(P) | 33 29.50 | 0.5 |
| GUA | 21.19 | 58 e(P) | 33 24.30 | -4.8X |
| WB5 | 23.50 | 161 iPc | 33 51.20 | -0.8 |
| | | i | 36 23.20 | |
| | | eS | 38 04.00 | |
| WRA | 23.55 | 161 Pd | 33 51.00 | -1.5 |
| | 0.7s | 21.30nm | | 4.8mb |
| MBL | 24.41 | 195 eP | 34 02.00 | 1.2 |
| | 0.4s | 2.00nm | | 4.0mb |
| QIS | 26.21 | 151 iPc | 34 16.90 | -0.9 |
| ASPA | 26.95 | 165 iPc | 34 23.50 | -1.1 |
| | 0.8s | 13.00nm | | 4.6mb |
| | | eS | 39 10.30 | |
| NANU | 27.13 | 203 eP | 34 27.00 | 0.8 |
| WARB | 28.50 | 180 eP | 34 31.30 | -7.2X |
| MEKA | 29.95 | 195 eP | 34 52.00 | 0.4 |
| FORR | 33.18 | 178 iPc | 35 18.90 | -0.9 |
| TIA | 34.69 | 346 eP | 35 32.00 | -0.8 |
| XAN | 35.47 | 334 eP | 35 38.30 | -1.3 |
| MAT | 35.55 | 16 (P) | 35 38.00 | -2.2 |
| | 1.0s | 17.00nm | | 4.9mb |
| CD2 | 35.57 | 325 eP | 35 39.50 | -1.0 |
| STK | 37.03 | 159 iPd | 35 52.30 | -0.3 |
| TIY | 37.39 | 341 eP | 35 55.80 | 0.0 |
| BJI | 38.56 | 347 eP | 36 05.50 | 0.1 |
| ADE | 38.95 | 164 eP | 36 09.10 | 0.3 |
| SNY | 39.26 | 356 P | 36 12.30 | 1.0 |
| LZH | 39.51 | 331 eP | 36 14.50 | 0.9 |
| | 1.5s | 66.00nm | | 5.2mb |
| | Z | 30s | 1.30um | 4.6mszX |
| HHC | 40.53 | 342 eP | 36 22.20 | 0.2 |
| | Z | 30s | 1.60um | 4.7mszX |
| MDJ | 42.04 | 3 eP | 36 34.50 | 0.4 |
| BWA | 42.06 | 153 eP | 36 35.30 | 0.9 |
| CAN | 43.07 | 153 eP | 36 43.00 | 0.3 |
| GTA | 44.09 | 330 P | 36 51.00 | -0.1 |
| GUN | 46.35 | 307 P | 37 09.20 | -0.3 |
| PKI | 46.58 | 306 P | 37 10.50 | -0.8 |
| KKN | 46.78 | 307 P | 37 12.00 | -0.7 |
| | 0.6s | 10.00nm | | 5.0mb |
| DMN | 46.84 | 306 P | 37 13.10 | -0.2 |
| | 0.6s | 14.00nm | | 5.1mb |
| GKN | 47.38 | 307 P | 37 17.00 | -0.5 |
| | 0.7s | 16.00nm | | 5.1mb |
| HYB | 49.41 | 291 eP | 37 33.00 | -0.2 |
| GBA | 49.80 | 286 Pd | 37 35.50 | -0.6 |
| | 0.7s | 12.30nm | | 5.0mb |
| WMO | 53.66 | 326 eP | 38 05.00 | 0.1 |
| MHI | 70.16 | 308 eP | 39 56.00 | 0.2 |
| AVY | 80.28 | 250 iPd | 40 55.25 | 1.3 |
| TTA | 82.07 | 27 eP | 41 04.20 | 1.8 |
| IMA | 83.58 | 24 ePc | 41 11.80 | 1.6 |
| | 0.8s | 10.30nm | | 5.0mb |
| PWA | 84.75 | 28 eP | 41 16.40 | 0.5 |
| PMR | 85.10 | 29 eP | 41 18.00 | 0.3 |
| | 1.0s | 17.20nm | | 5.2mb |
| INK | 91.37 | 21 eP | 41 47.50 | 0.0 |
| PEL | 145.47 | 154 iPKPc | 48 22.00 | 1.0 |

S.D. = 0.9 on 42 of 49 obs.

* FEB 15, 1989 10h 46m 09.22 ± 0.56s
 5.829 N ± 8.8km 77.742 W ± 15.9km
 DEPTH = 33.0km (normal)
 4.9mb (6 obs.) 3.5msz (1 obs.)

| NEAR WEST COAST OF COLOMBIA (102) | | | | |
|-----------------------------------|------|----------|----------|-------|
| HOBC | 2.17 | 132 iPc | 46 40.60 | -3.3X |
| CLMC | 2.26 | 149 eP | 46 43.95 | -1.3 |
| ANCC | 2.46 | 159 eP | 46 46.90 | -1.0 |
| HOOC | 2.59 | 155 ePc | 46 48.00 | -2.0 |
| SALC | 3.02 | 160 eP | 46 56.10 | 0.0 |
| UPA | 3.60 | 331 e(P) | 47 02.80 | -1.3 |
| | | i | 47 47.90 | |
| BOG | 3.85 | 108 eP | 47 10.00 | 2.0 |

| | | | | |
|------|--------|-----------|----------|----------|
| FUO | 4.00 | 95 eP | 47 13.50 | 3.4X |
| PSO | 4.63 | 175 eP | 47 21.00 | 2.0 |
| ARE | 23.00 | 164 iPd | 51 17.20 | 4.6X |
| ZOBO | 23.93 | 157 P | 51 22.00 | 0.0 |
| | Z | 20s | 0.18um | 3.5msz |
| | | | LR | 59 18.00 |
| LPB | 24.18 | 157 P | 51 26.50 | 2.2 |
| CNCB | 24.48 | 157 P | 51 28.00 | 0.7 |
| CCH | 25.75 | 154 eP | 51 36.50 | -2.6 |
| LNO | 34.23 | 333 e(P) | 52 56.30 | 2.4X |
| TUL | 34.23 | 333 eP | 52 47.20 | -6.9X |
| | 1.0s | 6.70nm | | 4.5mb |
| MEO | 34.65 | 329 eP | 52 57.50 | -0.3 |
| | 0.9s | 5.60nm | | 4.5mb |
| LRM | 49.91 | 329 eP | 55 04.50 | 2.5X |
| FRB | 58.19 | 5 eP | 56 01.00 | -1.1 |
| YKA | 62.68 | 342 P | 56 33.00 | 0.2 |
| TIC | 72.23 | 85 P | 57 32.44 | -1.3 |
| | 0.8s | 17.00nm | | 5.1mb |
| LIC | 72.26 | 85 P | 57 32.72 | -1.2 |
| | 0.8s | 30.00nm | | 5.3mb |
| INK | 72.44 | 341 eP | 57 34.00 | 0.1 |
| KIC | 72.53 | 85 P | 57 34.52 | -1.0 |
| | 0.9s | 27.00nm | | 5.3mb |
| MBC | 73.98 | 350 eP | 57 43.00 | 0.2 |
| KHC | 86.50 | 41 P | 58 52.40 | 2.2 |
| KBA | 86.52 | 43 eP | 58 54.00 | 3.5X |
| | 1.0s | 4.90nm | | 4.7mb |
| ASPA | 144.77 | 237 iPKPc | 05 45.20 | -0.1 |
| WB5 | 145.81 | 243 ePKP | 05 48.20 | 1.1 |
| WRA | 145.81 | 243 PKP | 05 50.00 | 2.9X |
| | 0.8s | 2.80nm | | |
| HYB | 147.11 | 45 ePKP | 05 51.50 | 2.3 |
| GBA | 148.69 | 52 PKP | 05 55.00 | 3.2X |

S.D. = 1.5 on 23 of 32 obs.

FEB 15, 1989 12h 14m 24.32 ± 1.07s
 40.674 N ± 9.0km 29.888 E ± 8.2km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

Felt at Izmit.

| | | | | |
|------|------|---------|----------|------|
| YLV | 0.41 | 255 iPg | 14 32.70 | 0.0 |
| GPA | 0.50 | 140 iPg | 14 34.40 | -0.1 |
| | | eSg | 14 41.70 | |
| ISK | 0.74 | 302 ePg | 14 38.40 | -0.4 |
| | | eSg | 14 49.10 | |
| CTT | 1.20 | 294 ePn | 14 46.10 | -0.6 |
| KCT | 1.24 | 251 iPn | 14 48.20 | 0.8 |
| DST | 1.44 | 223 iPn | 14 50.60 | 0.1 |
| BNT | 1.53 | 259 ePn | 14 50.70 | -1.1 |
| EDC | 1.58 | 259 ePn | 14 52.50 | 0.1 |
| DMK | 1.97 | 306 iPn | 14 59.30 | 1.2 |
| BBTK | 2.35 | 110 eP | 15 09.00 | 5.3X |
| | | eS | 15 40.00 | |
| KHL | 2.36 | 187 ePn | 15 10.20 | 6.3X |
| IZM | 3.05 | 223 ePn | 15 20.00 | 6.5X |

S.D. = 0.8 on 9 of 12 obs.

& FEB 15, 1989 13h 50m 41.40s
 33.020 N 115.830 W
 DEPTH = 2.0km
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 3.6 (PAS).

| | | | | |
|------|------|----------|----------|------|
| IKP | 0.44 | 212 ePc | 50 50.00 | -0.2 |
| HAY | 0.70 | 13 eP | 50 54.60 | -0.9 |
| BAR | 0.79 | 245 iPc | 50 56.00 | -1.1 |
| GLA | 0.84 | 88 iPc | 50 57.20 | -1.0 |
| PLM | 0.93 | 291 iPc | 50 58.60 | -1.4 |
| PEC | 1.41 | 308 eP | 51 05.20 | -2.9 |
| QSM | 3.06 | 344 eP | 51 28.30 | -3.4 |
| NOF | 3.11 | 355 eP | 51 29.10 | -3.4 |
| ABL | 3.36 | 304 eP | 51 35.00 | -1.2 |
| LSM | 3.73 | 355 eP | 51 38.00 | -3.4 |
| YMT2 | 3.80 | 352 eP | 51 41.50 | -0.8 |
| YMT6 | 3.86 | 353 eP | 51 46.00 | 2.8 |
| BCH | 4.14 | 303 eP | 51 46.00 | -1.1 |
| PRN | 4.42 | 8 eP | 51 48.60 | -2.6 |
| TNP | 5.18 | 348 e(P) | 52 00.00 | -2.0 |
| CMB | 6.23 | 325 e(P) | 52 15.00 | -1.7 |
| KVN | 6.29 | 344 eP | 52 14.00 | -3.7 |

17 obs. associated

FEB 15, 1989 14h 00m 29.87 ± 0.41s
 31.383 S ±

SAN JUAN PROVINCE, ARGENTINA (137)
Felt (11) at San Juan.

| | | | | | | |
|------|--------|-----|------|----|-------|------|
| RTCB | 0.37 | 106 | iPd | 00 | 47.50 | -0.4 |
| ZON | 0.49 | 110 | iPc | 00 | 48.00 | -0.5 |
| RTLL | 0.64 | 85 | iPc | 00 | 48.80 | -0.7 |
| RTCV | 0.75 | 130 | iPd | 00 | 50.10 | -0.2 |
| CFA | 0.86 | 105 | iPc | 00 | 51.00 | -0.3 |
| RTRS | 1.23 | 350 | iPc | 00 | 55.70 | 0.9 |
| MDZ | 1.53 | 168 | iPc | 01 | 00.40 | 2.1 |
| | | | iS | 01 | 19.00 | |
| JACH | 1.75 | 222 | iP | 01 | 01.10 | 0.2 |
| | | | iS | 01 | 24.50 | |
| FCH | 2.14 | 205 | iPd | 01 | 07.20 | 1.1 |
| | | | iS | 01 | 36.00 | |
| PEL | 2.15 | 215 | iPc | 01 | 06.00 | 0.0 |
| | | | iS | 01 | 30.00 | |
| ROCH | 2.20 | 223 | iPc | 01 | 06.60 | -0.1 |
| SAN | 2.40 | 210 | eP | 01 | 09.00 | -0.1 |
| | | | iS | 01 | 39.00 | |
| PCH | 2.49 | 206 | iP | 01 | 10.70 | 0.4 |
| | | | iS | 01 | 41.40 | |
| TACH | 2.69 | 212 | iPd | 01 | 12.50 | -0.4 |
| | | | iS | 01 | 44.50 | |
| CHCH | 2.82 | 205 | iPd | 01 | 15.20 | 0.6 |
| | | | iS | 01 | 49.50 | |
| LCCH | 2.88 | 223 | iPc | 01 | 14.20 | -1.2 |
| | | | iS | 01 | 48.60 | |
| LVN | 3.16 | 215 | iP | 01 | 17.70 | -1.4 |
| CNCB | 14.55 | 5 | P | 03 | 53.00 | 1.5 |
| LPB | 14.82 | 4 | (P) | 03 | 53.00 | -1.8 |
| ZOBO | 15.08 | 4 | P | 03 | 59.00 | 0.8 |
| LIC | 71.67 | 71 | P | 11 | 40.00 | -0.2 |
| KIC | 71.98 | 71 | P | 11 | 41.90 | -0.2 |
| HYB | 147.66 | 108 | ePKP | 20 | 02.80 | 4.0X |

S.D. = 1.0 on 22 of 23 obs.

* FEB 15, 1989 17h 52m 37.80±1.28s
27.494 N ± 9.5km 34.492 E ± 11.5km
DEPTH = 10.0km (geophysicist)
RED SEA (554)

| | | | | | | |
|------|------|-----|-----|----|-------|------|
| BADA | 1.12 | 24 | ePc | 52 | 59.80 | 1.0 |
| SRFA | 1.56 | 23 | iPc | 53 | 05.70 | 0.2 |
| | | | iS | 53 | 23.30 | |
| HOL | 1.84 | 15 | iPc | 53 | 09.70 | 0.1 |
| AYN | 1.91 | 44 | iPc | 53 | 11.30 | 0.6 |
| WAJH | 2.27 | 125 | eP | 53 | 15.80 | -0.1 |
| MBH | 2.29 | 8 | eP | 53 | 17.00 | 0.8 |
| KOT | 3.37 | 317 | eP | 53 | 32.00 | 0.5 |
| MKT | 3.49 | 9 | iP | 53 | 33.20 | 0.0 |
| | | | eS | 54 | 13.40 | |
| DSI | 4.13 | 11 | eP | 53 | 42.00 | -0.3 |
| MASJ | 4.35 | 14 | P | 53 | 49.50 | 3.9X |
| BURJ | 4.83 | 13 | P | 53 | 51.20 | -1.1 |
| JARJ | 4.89 | 15 | P | 53 | 51.60 | -1.6 |

S.D. = 0.9 on 11 of 12 obs.

& FEB 15, 1989 18h 09m 24.73s
60.580 N 151.704 W
DEPTH = 68.8km
KENAI PENINSULA, ALASKA (14)
<AGS-P>.

| | | | | | | |
|------|------|-----|----|----|-------|------|
| NKA | 0.28 | 54 | iP | 09 | 37.22 | 1.5 |
| RDT | 0.35 | 269 | iP | 09 | 35.82 | -0.5 |
| | | | eS | 09 | 44.98 | |
| RED | 0.55 | 253 | iP | 09 | 37.57 | -0.7 |
| | | | eS | 09 | 48.54 | |
| NNL | 0.58 | 159 | iP | 09 | 38.97 | 0.6 |
| | | | eS | 09 | 49.24 | |
| SPU | 0.63 | 344 | iP | 09 | 38.31 | -0.7 |
| | | | eS | 09 | 49.45 | |
| CRP | 0.72 | 342 | iP | 09 | 39.88 | -0.3 |
| SLKM | 0.74 | 95 | iP | 09 | 39.49 | -0.7 |
| | | | eS | 09 | 51.30 | |
| CGLM | 0.75 | 349 | iP | 09 | 39.99 | -0.4 |
| | | | eS | 09 | 52.24 | |
| ILIM | 0.80 | 232 | iP | 09 | 40.40 | -0.6 |
| | | | eS | 09 | 52.55 | |
| BRLK | 0.92 | 153 | eP | 09 | 42.22 | -0.2 |
| CNPM | 1.08 | 167 | eP | 09 | 43.96 | -0.6 |
| | | | eS | 09 | 59.33 | |
| SEW | 1.22 | 112 | eP | 09 | 45.41 | -0.8 |
| | | | eS | 10 | 01.09 | |
| PMS | 1.24 | 57 | iP | 09 | 45.93 | -0.7 |
| | | | eS | 10 | 02.26 | |

| | | | | | | |
|------|------|-----|----|----|-------|------|
| PTE | 1.35 | 77 | eP | 09 | 46.96 | -1.0 |
| PWA | 1.39 | 39 | eP | 09 | 47.97 | -0.6 |
| PDB | 1.48 | 238 | iP | 09 | 48.20 | -1.5 |
| PLRM | 1.61 | 50 | iP | 09 | 50.24 | -1.3 |
| PME | 1.67 | 50 | eP | 09 | 51.24 | -1.1 |
| PWL | 1.68 | 79 | eP | 09 | 50.91 | -1.6 |
| KNK | 1.79 | 61 | iP | 09 | 52.74 | -1.3 |
| | | | eS | 10 | 14.48 | |
| GHO | 1.80 | 47 | iP | 09 | 52.90 | -1.4 |
| | | | eS | 10 | 14.89 | |
| CDD | 1.92 | 212 | eP | 09 | 54.92 | -1.0 |
| SML | 2.05 | 51 | iP | 09 | 56.08 | -1.5 |
| | | | eS | 10 | 18.56 | |
| VZW | 2.57 | 77 | eP | 10 | 02.19 | -2.7 |
| | | | eS | 10 | 31.66 | |
| HIN | 2.58 | 92 | eP | 10 | 02.07 | -3.0 |
| | | | eS | 10 | 32.02 | |
| VLZ | 2.69 | 76 | eP | 10 | 04.04 | -2.4 |
| | | | eS | 10 | 34.57 | |
| KLU | 2.96 | 69 | iP | 10 | 07.95 | -2.4 |
| TOA | 3.07 | 58 | iP | 10 | 10.73 | -1.2 |
| SGAM | 3.21 | 89 | eP | 10 | 10.09 | -3.8 |
| RAGM | 3.48 | 90 | eP | 10 | 14.29 | -3.4 |
| GLB | 3.94 | 74 | eP | 10 | 21.18 | -2.9 |
| FBA | 4.69 | 21 | eP | 10 | 33.09 | -1.5 |

32 obs. associated

? FEB 15, 1989 19h 35m 38.90±1.12s
59.748 N ± 10.0km 5.773 E ± 10.0km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 1.9 (BER).

| | | | | | | |
|------|------|-----|------|----|-------|------|
| ODD1 | 0.46 | 69 | iPgc | 35 | 49.53 | 1.2 |
| | | | iSg | 35 | 55.31 | |
| KMY | 0.60 | 207 | iP | 35 | 51.95 | 0.9 |
| | | | iSg | 35 | 59.44 | |
| BLS1 | 0.65 | 123 | iPg | 35 | 50.28 | -1.6 |
| | | | iSg | 35 | 56.67 | |
| SUE | 1.41 | 340 | eP | 36 | 03.67 | -0.8 |
| | | | eS | 36 | 26.88 | |
| HYA | 1.44 | 8 | iP | 36 | 08.97 | 4.0X |
| | | | iS | 36 | 28.38 | |
| NRA0 | 3.04 | 69 | eP | 36 | 28.20 | 0.3 |
| | | | eS | 37 | 04.00 | |
| | | | iSg | 37 | 10.80 | |

S.D. = 1.7 on 5 of 6 obs.

? FEB 15, 1989 19h 58m 13.10±7.44s
38.441 N ± 14.6km 7.897 W ± 67.1km
DEPTH = 10.0km (geophysicist)
PORTUGAL (376)
MG 2.9 (MDD).

| | | | | | | |
|------|------|-----|----|----|-------|------|
| EVAL | 1.25 | 133 | eP | 58 | 36.00 | -0.3 |
| | | | eS | 58 | 53.00 | |
| EPLA | 2.15 | 40 | eP | 58 | 50.00 | 0.5 |
| | | | eS | 59 | 17.20 | |
| EHOR | 2.18 | 106 | eP | 58 | 50.50 | 0.6 |
| | | | eS | 59 | 17.70 | |
| EBAN | 3.25 | 94 | eP | 59 | 05.00 | -0.1 |
| | | | eS | 59 | 42.00 | |
| GUD | 3.63 | 52 | eP | 59 | 10.00 | -0.7 |
| | | | eS | 59 | 52.00 | |

S.D. = 0.8 on 5 of 5 obs.

FEB 15, 1989 20h 55m 44.92±0.35s
44.356 N ± 2.6km 7.315 E ± 3.3km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.7 (GEN), 2.7 (LDG).

| | | | | | | |
|------|------|-----|-----|----|-------|------|
| STV | 0.11 | 177 | P | 55 | 48.30 | 0.4 |
| | | | S | 55 | 50.72 | |
| DOI | 0.16 | 341 | Pc | 55 | 49.00 | 0.4 |
| | | | eSg | 55 | 51.50 | |
| PZZ | 0.21 | 314 | P | 55 | 49.75 | 0.1 |
| | | | S | 55 | 52.86 | |
| TOUF | 0.35 | 188 | Pg | 55 | 52.50 | 0.4 |
| AUTN | 0.37 | 167 | Pg | 55 | 52.67 | 0.1 |
| ROB | 0.40 | 99 | P | 55 | 53.41 | 0.2 |
| | | | S | 55 | 59.40 | |
| AURF | 0.47 | 179 | Pg | 55 | 54.58 | 0.1 |
| | | | Sg | 56 | 00.95 | |
| MVIF | 0.47 | 194 | Pg | 55 | 54.49 | -0.1 |
| | | | Sg | 56 | 00.93 | |
| SBF | 0.50 | 170 | Pg | 55 | 55.00 | -0.1 |

| | | | | | | |
|------|------|-----|----|----|-------|------|
| | | | Sg | 56 | 02.00 | |
| IMI | 0.61 | 137 | P | 55 | 56.99 | -0.2 |
| | | | S | 56 | 05.01 | |
| FIN | 0.66 | 103 | P | 55 | 57.69 | -0.4 |
| | | | S | 56 | 06.60 | |
| CALN | 0.68 | 207 | Pg | 55 | 58.24 | -0.2 |
| RRL | 0.68 | 326 | P | 55 | 58.13 | -0.4 |
| | | | S | 56 | 06.84 | |
| FRF | 0.93 | 211 | Pg | 56 | 02.50 | -0.2 |
| | | | Sg | 56 | 14.40 | |
| LRG | 1.14 | 218 | Pg | 56 | 06.10 | -0.1 |
| | | | Sg | 56 | 21.20 | |
| LMR | 1.18 | 210 | Pg | 56 | 06.80 | -0.1 |
| | | | Sg | 56 | 21.60 | |

S.D. = 0.3 on 16 of 16 obs.

? FEB 15, 1989 21h 00m 36.74±1.10s
6.208 S ± 22.2km 150.405 E ± 20.4km
DEPTH = 33.0km (normol)

NEW BRITAIN REGION (192)
ML 4.4 (PMG).

| | | | | | | |
|------|-------|-----|------|----------|-------|------|
| RAB | 2.67 | 41 | iPd | 01 | 18.50 | 0.2 |
| | | | 0.6s | 800.00nm | | |
| LAT | 3.41 | 262 | e(P) | 01 | 29.00 | 0.0 |
| PMG | 4.53 | 225 | iPd | 01 | 46.00 | 1.2 |
| RMO | 20.23 | 184 | eP | 05 | 18.00 | 6.0X |
| WB5 | 20.68 | 227 | eP | 05 | 15.20 | -1.4 |
| | | | i | 05 | 22.30 | |
| ASPA | 23.52 | 221 | eP | 05 | 44.90 | 0.0 |

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

% FEB 15, 1989 21h 30m 57.89±0.94s
15.424 N ± 6.9km 61.064 W ± 19.9km
DEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)
ML 2.6 (FDF).

| | | | | | | |
|-----|------|-----|-----|----|-------|------|
| MGG | 0.55 | 334 | eP | 31 | 12.30 | 3.3X |
| | | | S | 31 | 26.50 | |
| CRM | 0.68 | 168 | eP | 31 | 12.39 | 1.0 |
| FDF | 0.69 | 187 | eP | 31 | 12.57 | 1.0 |
| | | | S | 31 | 27.80 | |
| PAG | 0.85 | 316 | eP | 31 | 14.10 | -0.1 |
| | | | S | 31 | 30.50 | |
| MVM | 0.88 | 169 | iPc | 31 | 13.78 | -1.0 |
| | | | S | 31 | 30.10 | |
| DEG | 0.88 | 0 | eP | 31 | 15.00 | 0.1 |
| | | | S | 31 | 31.70 | |
| BIM | 0.90 | 180 | eP | 31 | 14.27 | -0.9 |
| | | | S | 31 | 30.80 | |

S.D. = 1.1 on 6 of 7 obs.

FEB 15, 1989 21h 55m 54.33±0.98s
41.641 N ± 9.4km 21.581 E ± 7.8km
DEPTH = 14.9 ± 7.5 km
YUGOSLAVIA (383)
ML 2.6 (SKO).

| | | | | | | |
|-----|------|-----|------|----|-------|------|
| SKO | 0.35 | 342 | iPgc | 56 | 01.50 | -0.2 |
| | | | iSg | 56 | 06.00 | |
| OHR | 0.79 | 228 | ePg | 56 | 09.00 | -0.3 |
| | | | iSg | 56 | 19.80 | |
| VAY | 0.81 | 113 | iPg | 56 | 09.70 | 0.1 |
| | | | iSg | 56 | 20.50 | |
| PHP | 0.86 | 274 | ePg | 56 | 10.10 | -0.2 |
| KKS | 0.98 | 297 | ePg | 56 | 13.00 | 0.6 |
| PUK | 1.32 | 288 | ePg | 56 | 19.40 | 1.2 |
| BCI | 1.34 | 303 | ePg | 56 | 17.20 | -1.2 |

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

& FEB 15, 1989 23h 39m 19.69s
57.372 N 142.859 W
DEPTH = 10.0km (geophysicist)
GULF OF ALASKA (15)
<AGS-P>.

| | | | | | | |
|------|------|-----|----|----|-------|------|
| MID | 2.76 | 320 | eP | 39 | 58.23 | -6.5 |
| PNL | 2.93 | 37 | iP | 40 | 00.70 | -6.5 |
| | | | iS | 40 | 33.00 | |
| PCA | 3.05 | 25 | eP | 40 | 02.48 | -6.4 |
| YAH | 3.06 | 10 | eP | 40 | 02.80 | -6.3 |
| BCPM | 3.09 | 32 | eP | 40 | 02.93 | -6.4 |
| | | | eS | 40 | 37.63 | |
| SGAM | 3.37 | 340 | eP | 40 | 06.73 | -6.6 |
| | | | eS | 40 | 45.73 | |
| HIN | 3.57 | 330 | eP | 40 | 09.68 | -6.6 |

15d 23h

| | | | | | | |
|------|------|-----|----|----|-------|------|
| KNIM | 3.91 | 322 | eP | 40 | 12.50 | -8.6 |
| SIT | 4.11 | 91 | eP | 40 | 15.53 | -8.3 |
| GLB | 4.11 | 354 | eP | 40 | 16.80 | -7.1 |
| VZW | 4.16 | 334 | eP | 40 | 16.73 | -7.9 |
| SEW | 4.39 | 311 | eP | 40 | 20.48 | -7.4 |
| HYT | 4.43 | 36 | P | 40 | 22.00 | -6.5 |
| PWL | 4.49 | 323 | eP | 40 | 21.00 | -8.3 |
| PTE | 4.73 | 320 | eP | 40 | 24.50 | -8.2 |
| CNPM | 4.90 | 300 | eP | 40 | 28.07 | -7.1 |
| SLKM | 4.94 | 313 | eP | 40 | 29.00 | -6.7 |
| SML | 5.25 | 330 | eP | 40 | 33.53 | -6.5 |
| PWA | 5.58 | 323 | eP | 40 | 37.02 | -7.7 |
| PAX | 5.77 | 348 | eP | 40 | 40.99 | -6.4 |
| CDD | 5.92 | 290 | eP | 40 | 42.73 | -6.8 |
| RED | 5.98 | 305 | eP | 40 | 42.94 | -7.4 |
| SPU | 6.06 | 313 | eP | 40 | 43.92 | -7.6 |
| CRP | 6.15 | 313 | eP | 40 | 46.04 | -6.9 |

24 obs. associated

? FEB 16, 1989 00h 01m 40.50±1.18s
 37.572 N ±17.3km 142.106 E ±18.1km
 DEPTH = 33.0km (normal)
 4.5mb (2 obs.)
 OFF EAST COAST OF HONSHU, JAPAN (229)

| | | | | | | |
|-----|-------|---------|-----|----|---------|------|
| MAT | 3.28 | 253 | (P) | 02 | 32.00 | 1.2 |
| | | | eS | 03 | 05.00 | |
| GUN | 47.65 | 276 | P | 10 | 15.40 | -0.6 |
| KKN | 48.18 | 276 | P | 10 | 19.40 | -0.6 |
| GKN | 48.59 | 276 | P | 10 | 22.40 | -0.7 |
| | 0.8s | 26.00nm | | | 5.3mb X | |
| WB5 | 57.61 | 189 | eP | 11 | 29.70 | 0.1 |
| GBA | 61.81 | 266 | P | 11 | 58.00 | -0.7 |
| SUF | 67.75 | 333 | iP | 12 | 37.30 | 0.8 |
| | 0.5s | 2.00nm | | | 4.5mb | |
| NB2 | 73.90 | 337 | P | 13 | 14.20 | 0.5 |
| | 0.8s | 5.80nm | | | 4.6mb | |

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

FEB 16, 1989 01h 15m 05.93±0.36s
 9.919 N ±6.3km 126.286 E ±10.0km
 DEPTH = 33.0km (normal)
 5.1mb (8 obs.)
 MINDANAO, PHILIPPINE ISLANDS (259)

| | | | | | | |
|------|-------|---------|------|----|-------|------|
| DAV | 2.90 | 194 | eP | 15 | 58.80 | 8.0X |
| QCP | 6.92 | 313 | eP | 16 | 45.00 | -2.7 |
| BAG | 8.51 | 320 | eP | 17 | 10.50 | 0.4 |
| SSE | 21.60 | 348 | eP | 19 | 55.00 | 0.0 |
| | | | i | 20 | 05.50 | |
| | | | e(S) | 23 | 48.00 | |
| WHN | 23.34 | 333 | eP | 20 | 13.50 | 1.3 |
| GYA | 24.80 | 314 | P | 20 | 27.60 | 1.0 |
| LOE | 24.97 | 290 | eP | 20 | 27.50 | -0.7 |
| CHG | 27.89 | 292 | eP | 20 | 55.10 | 0.0 |
| PSI | 28.11 | 257 | eP | 21 | 02.20 | 5.1X |
| WB5 | 30.66 | 165 | eP | 21 | 17.20 | -2.6 |
| QIS | 33.00 | 157 | iPc | 21 | 39.10 | -1.2 |
| | | | e | 21 | 46.00 | |
| LZH | 33.07 | 325 | P | 21 | 42.00 | 1.0 |
| ASPA | 34.20 | 168 | eP | 21 | 49.20 | -1.5 |
| | | | e | 23 | 16.10 | |
| CTA | 35.71 | 147 | iPc | 22 | 03.50 | -0.2 |
| | 0.9s | 32.77nm | | | 5.3mb | |
| GTA | 37.68 | 326 | P | 22 | 19.70 | -0.4 |
| MRWA | 40.15 | 194 | eP | 22 | 41.50 | 0.8 |
| FORR | 40.57 | 178 | iPc | 22 | 44.00 | 0.0 |
| | 0.4s | 20.00nm | | | 5.2mb | |
| BAL | 41.33 | 193 | eP | 22 | 51.00 | 0.7 |
| GUN | 41.96 | 301 | P | 22 | 56.00 | 0.0 |
| KLB | 42.07 | 191 | eP | 22 | 57.00 | 0.6 |
| | 0.7s | 17.00nm | | | 4.9mb | |
| KKN | 42.43 | 301 | P | 22 | 59.20 | -0.6 |
| MUN | 42.76 | 193 | iPd | 23 | 03.00 | 1.0 |
| | 0.8s | 49.00nm | | | 5.3mb | |
| NWAO | 43.47 | 191 | eP | 23 | 09.00 | 1.2 |
| | 0.6s | 20.00nm | | | 5.1mb | |
| STK | 44.07 | 161 | iPd | 23 | 12.90 | 0.3 |
| HYB | 46.88 | 285 | eP | 23 | 35.50 | 0.2 |
| GBA | 47.90 | 279 | Pd | 23 | 42.90 | -0.5 |
| | 0.9s | 21.80nm | | | 5.2mb | |
| BWA | 48.84 | 156 | eP | 23 | 51.00 | 0.6 |
| CAN | 49.86 | 156 | eP | 23 | 58.00 | 0.4 |
| MAIO | 65.51 | 305 | eP | 25 | 49.00 | 0.4 |
| INK | 84.60 | 22 | eP | 27 | 36.50 | -0.5 |
| KJF | 84.86 | 334 | eP | 27 | 39.00 | 0.7 |
| SUF | 85.87 | 333 | iP | 27 | 44.20 | 0.8 |

| | | | | |
|------|--------|---------|----------|------|
| 0.7s | 5.60nm | 4.9mb | | |
| MBC | 86.05 | 13 eP | 27 44.00 | -0.1 |
| DAG | 91.12 | 352 iPd | 28 07.10 | -1.1 |
| | 0.8s | 8.21nm | 5.2mb | |
| YKA | 94.07 | 24 P | 28 22.70 | 0.7 |

S.D. = 1.0 on 33 of 35 obs.

& FEB 16, 1989 02h 44m 56.60s
 36.753 N 120.482 W
 DEPTH = 5.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 2.5 (BRK).

| | | | | | | |
|------|------|-----|-----|----|-------|------|
| LLA | 0.40 | 250 | iPd | 45 | 04.30 | -0.2 |
| | | | eS | 45 | 11.00 | |
| PRI | 0.63 | 194 | ePd | 45 | 09.20 | 0.0 |
| FRI | 0.66 | 69 | iPd | 45 | 09.60 | -0.3 |
| | | | iS | 45 | 18.70 | |
| SAO | 0.77 | 271 | eP | 45 | 11.50 | -0.6 |
| | | | e | 45 | 11.87 | |
| | | | iS | 45 | 23.10 | |
| PRS | 0.83 | 240 | iPd | 45 | 12.20 | -0.9 |
| PHAM | 0.92 | 176 | eP | 45 | 13.00 | -1.6 |
| ARN | 1.03 | 306 | eP | 45 | 15.90 | -0.7 |
| MHC | 1.10 | 303 | eP | 45 | 16.65 | -1.1 |
| | | | eS | 45 | 31.60 | |
| CMB | 1.28 | 3 | eP | 45 | 20.50 | -0.4 |
| BCH | 1.60 | 168 | eP | 45 | 24.00 | -1.7 |
| TNP | 2.92 | 62 | eP | 45 | 46.00 | 1.2 |
| KVN | 2.97 | 39 | eP | 45 | 47.70 | 2.3 |

12 obs. associated

% FEB 16, 1989 05h 00m 05.79±1.94s
 10.688 N ±10.3km 60.891 W ±16.8km
 DEPTH = 10.0km (geophysicist)

TRINIDAD (98)

| | | | | | | |
|-----|------|-----|----|----|-------|------|
| TBH | 0.27 | 220 | eP | 00 | 11.65 | 0.2 |
| | | | eS | 00 | 26.95 | |
| PIG | 0.47 | 6 | eP | 00 | 16.07 | 0.7 |
| | | | eS | 00 | 31.09 | |
| TRN | 0.50 | 265 | eP | 00 | 15.89 | -0.1 |
| | | | eS | 00 | 25.81 | |
| TPP | 0.66 | 236 | eP | 00 | 18.45 | -0.5 |
| | | | eS | 00 | 29.34 | |
| TCE | 0.85 | 271 | eP | 00 | 23.09 | 1.0 |
| | | | eS | 00 | 39.23 | |
| GRW | 1.65 | 333 | eP | 00 | 33.70 | -1.2 |
| | | | eS | 01 | 00.05 | |

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

* FEB 16, 1989 05h 17m 29.13±0.42s
 21.699 S ±15.0km 173.963 W ±6.6km
 DEPTH = 33.0km (normal)
 5.0mb (15 obs.)
 TONGA ISLANDS (173)

| | | | | | | |
|------|-------|---------|------|----|-------|-------|
| DZM | 18.19 | 265 | iPc | 21 | 42.00 | 1.1 |
| TVO | 23.57 | 85 | iP | 22 | 37.90 | 0.1 |
| | 1.2s | 55.00nm | | | 4.9mb | |
| PMO | 25.60 | 79 | iP | 22 | 56.80 | -0.4 |
| | 1.2s | 25.00nm | | | 4.7mb | |
| VAH | 25.77 | 80 | iP | 22 | 59.20 | 0.5 |
| | 1.2s | 10.00nm | | | 4.3mb | |
| TPT | 25.86 | 80 | iP | 23 | 00.40 | 0.8 |
| | 1.2s | 30.00nm | | | 4.8mb | |
| RUV | 26.01 | 80 | iP | 23 | 01.60 | 0.6 |
| | 1.2s | 10.00nm | | | 4.3mb | |
| ASPA | 47.92 | 257 | iPc | 26 | 04.30 | -2.3 |
| | 1.2s | 31.00nm | | | 5.2mb | |
| | | | eS | 32 | 58.20 | |
| WB5 | 48.16 | 262 | iPd | 26 | 05.60 | -2.9 |
| WRA | 48.17 | 262 | P | 26 | 05.00 | -3.5X |
| | 0.9s | 10.30nm | | | 4.9mb | |
| KLB | 60.96 | 245 | eP | 27 | 41.00 | -0.7 |
| | 0.7s | 11.00nm | | | 5.1mb | |
| MUN | 62.21 | 244 | eP | 27 | 50.00 | -0.1 |
| NANU | 64.72 | 255 | eP | 28 | 06.10 | -0.5 |
| PRS | 76.15 | 41 | eP | 29 | 15.40 | -0.3 |
| BCH | 76.22 | 43 | P | 29 | 16.10 | -0.1 |
| PCC | 76.30 | 40 | e(P) | 29 | 16.70 | 0.2 |
| PRI | 76.46 | 42 | eP | 29 | 17.50 | -0.1 |
| BKS | 76.64 | 40 | ePd | 29 | 18.80 | 0.4 |
| | 0.8s | 16.00nm | | | 5.1mb | |
| MHC | 76.64 | 40 | eP | 29 | 18.40 | -0.2 |
| ARN | 76.71 | 40 | P | 29 | 19.00 | 0.1 |
| FRI | 77.60 | 42 | e(P) | 29 | 23.70 | 0.0 |

| | | | | | | |
|------|--------|---------|--------|----|-------|-------|
| CMB | 77.85 | 41 | eP | 29 | 24.50 | -0.6 |
| WDC | 78.26 | 37 | eP | 29 | 26.90 | -0.4 |
| MIN | 78.63 | 38 | eP | 29 | 29.40 | -0.1 |
| LBFM | 79.14 | 37 | P | 29 | 32.20 | -0.1 |
| TNP | 79.82 | 42 | P | 29 | 36.00 | -0.1 |
| KVN | 79.88 | 41 | P | 29 | 35.80 | -0.6 |
| BMW | 81.89 | 33 | P | 29 | 46.90 | 0.3 |
| LON | 82.79 | 33 | P | 29 | 50.60 | -0.7 |
| GMW | 82.84 | 32 | P | 29 | 51.70 | 0.2 |
| RMW | 83.27 | 33 | P | 29 | 53.50 | -0.3 |
| MDJ | 83.69 | 323 | eP | 29 | 56.50 | 0.7 |
| ALQ | 85.25 | 50 | P | 30 | 05.00 | 0.8 |
| | 1.0s | 10.50nm | | | 5.0mb | |
| PMR | 85.37 | 12 | P | 30 | 02.70 | -1.1 |
| | 0.8s | 7.93nm | | | 5.0mb | |
| TTA | 85.53 | 8 | P | 30 | 04.50 | -0.3 |
| | 1.0s | 16.25nm | | | 5.2mb | |
| CN2 | 85.58 | 321 | eP | 30 | 05.00 | -0.3 |
| PNT | 85.60 | 32 | eP | 30 | 05.00 | -0.3 |
| | 0.7s | 8.00nm | | | 5.0mb | |
| BW06 | 87.30 | 42 | P | 30 | 13.40 | -0.7 |
| | 1.1s | 5.36nm | | | 4.7mb | |
| PSI | 88.30 | 274 | ePd | 30 | 20.50 | 1.3 |
| SNG | 88.39 | 278 | eP | 30 | 21.70 | 2.1 |
| FBA | 88.65 | 11 | P | 30 | 18.70 | -1.1 |
| | 0.9s | 15.21nm | | | 5.3mb | |
| SES | 90.66 | 35 | eP | 30 | 30.00 | 0.5 |
| TIY | 90.90 | 310 | eP | 30 | 31.90 | 0.9 |
| KMI | 93.26 | 296 | Pc | 30 | 43.50 | 1.2 |
| BDT | 93.57 | 287 | eP | 30 | 44.60 | 1.1 |
| CHG | 94.20 | 288 | eP | 30 | 48.60 | 2.2 |
| INK | 94.48 | 14 | eP | 30 | 45.00 | -1.6 |
| YKA | 96.06 | 24 | P | 30 | 54.00 | 0.8 |
| KSP | 149.82 | 347 | ePKP | 37 | 18.00 | 5.8X |
| | | | i | 37 | 22.30 | |
| CLL | 149.95 | 351 | iPKPd | 37 | 21.90 | 9.6X |
| | 1.1s | 18.00nm | | | | |
| BRG | 150.23 | 350 | ePKP | 37 | 25.80 | 13.0X |
| | 1.0s | 18.00nm | | | | |
| | | | eSg | 58 | 29.50 | |
| BBTK | 150.94 | 315 | iPKPc | 37 | 20.50 | 6.1X |
| PRU | 150.98 | 349 | ePKP | 37 | 20.00 | 6.1X |
| MLR | 151.21 | 330 | ePKPd | 37 | 21.00 | 6.4X |
| GRF | 151.77 | 353 | e(PKP) | 37 | 30.50 | 15.4X |
| GRA2 | 151.79 | 353 | ePKP | 37 | 30.50 | 15.3X |
| | 1.1s | 24.00nm | | | | |
| KHC | 151.98 | 349 | iPKPd | 37 | 23.40 | 7.9X |
| | | | i | 37 | 31.80 | |

S.D. = 1.0 on 46 of 56 obs.

& FEB 16, 1989 05h 48m 58.14s
 57.251 N 142.922 W
 DEPTH = 10.0km (geophysicist)
 4.5mb (10 obs.)
 GULF OF ALASKA (15)
 <AGS-P>. ML 4.2 (PMR).

| | | | | | | |
|------|------|-----|----|----|-------|------|
| MID | 2.83 | 322 | eP | 49 | 37.35 | -6.8 |
| YKU | 2.86 | 35 | eP | 49 | 39.10 | -5.4 |
| HMT | 3.17 | 348 | iP | 49 | 42.70 | -6.4 |
| WAX | 3.21 | 1 | eP | 49 | 42.85 | -6.8 |
| BCPM | 3.21 | 31 | eP | 49 | 42.99 | -6.6 |
| | | | eS | 50 | 18.61 | |
| SGAM | 3.47 | 341 | eP | 49 | 46.97 | -6.3 |
| | | | eS | 50 | 24.35 | |
| CVA | 3.62 | 337 | eP | 49 | 48.13 | -7.2 |
| | | | eS | 50 | 25.58 | |
| HIN | 3.66 | 331 | eP | 49 | 49.71 | -6.4 |
| CTGM | 3.81 | 1 | | | | |

| | | | | | | | | | | | | | | | | | | | |
|------------------------------------|--------------------|---------|--------|----|-------|--------|-------|---------|----------|----------|-------|--------|-------------------------------|---------|---------|-------|-------|--------|-------|
| SVW | 7.58 | 306 | eP | 50 | 44.50 | -6.8 | 0.8s | 15.00nm | 4.8mb | BJI | 91.75 | 316 | iPc | 10 | 33.00 | 0.7 | | | |
| FBA | 8.03 | 345 | eP | 50 | 49.00 | -8.5 | 29.11 | 73 iP | 03 29.90 | -0.9 | | | esP | 11 | 27.00 | | | | |
| TTA | 8.66 | 317 | eP | 50 | 59.30 | -7.1 | 0.8s | 30.00nm | 5.1mb | | | | eS | 21 | 15.00 | | | | |
| IMA | 10.20 | 335 | eP | 51 | 18.50 | -9.1 | 30.73 | 257 eP | 03 46.00 | 1.2 | | | esS | 22 | 20.00 | | | | |
| INK | 11.88 | 17 | eP | 51 | 44.00 | -6.3 | | e | 04 36.00 | | TIY | 92.73 | 312 | Pc | 10 | 38.00 | 1.0 | | |
| YKA | 15.07 | 58 | P | 52 | 30.30 | -2.2 | PMO | 31.62 | 70 iP | 03 51.80 | -0.9 | XAN | 93.02 | 308 | P | 10 | 39.30 | 0.9 | |
| PNT | 15.98 | 110 | eP | 52 | 44.00 | -0.3 | | 0.8s | 5.00nm | 4.2mb | ALQ | 93.23 | 52 | eP | 10 | 39.00 | -0.5 | | |
| | 1.0s | 31.00nm | | | | 4.4mb | VAH | 31.72 | 71 iP | 03 52.50 | -1.0 | | 1.2s | 10.94nm | | 4.9mb | | | |
| LON | 16.64 | 120 | eP | 52 | 54.00 | 1.1 | | 0.8s | 20.00nm | 4.8mb | PMR | 93.60 | 14 | P | 10 | 39.50 | -0.8 | | |
| EDM | 17.27 | 91 | iPd | 52 | 57.00 | -3.6 | TPT | 31.86 | 70 iP | 03 53.80 | -1.0 | TTA | 93.60 | 10 | P | 10 | 39.80 | -0.6 | |
| SES | 19.89 | 97 | ePc | 53 | 29.70 | -2.6 | | 0.8s | 10.00nm | 4.5mb | DPW | 93.91 | 36 | P | 10 | 43.20 | 1.1 | | |
| FHC | 20.50 | 135 | eP | 53 | 41.30 | 2.6 | RUV | 31.95 | 71 iP | 03 54.50 | -1.0 | PNT | 94.15 | 34 | eP | 10 | 43.00 | -0.1 | |
| LBFM | 20.87 | 131 | eP | 53 | 42.50 | -0.2 | | 0.8s | 10.00nm | 4.5mb | | 0.7s | 6.00nm | | 4.9mb | | | | |
| MBC | 20.90 | 16 | eP | 53 | 38.00 | -4.4 | CTA | 33.14 | 278 iPd | 04 07.10 | 1.2 | CD2 | 95.06 | 303 | eP | 10 | 49.20 | 1.4 | |
| | 0.6s | 8.00nm | | | | 4.3mb | | 0.5s | 44.37nm | 5.4mb | BW06 | 95.64 | 44 | P | 10 | 50.00 | -0.4 | | |
| WDC | 21.26 | 133 | eP | 53 | 46.30 | -0.1 | | i | 04 51.00 | | | 1.2s | 10.27nm | | 5.0mb | | | | |
| MIN | 21.83 | 132 | eP | 53 | 52.00 | -0.4 | | iS | 09 11.00 | | LRM | 95.73 | 40 | eP | 10 | 50.90 | 0.1 | | |
| LRM | 21.93 | 108 | eP | 53 | 51.90 | -1.6 | PMG | 37.68 | 295 eP | 04 44.50 | 0.3 | FBA | 96.85 | 13 | P | 10 | 54.00 | -1.0 | |
| FFC | 22.80 | 79 | iPc | 53 | 59.50 | -2.2 | QIS | 38.75 | 273 eP | 04 44.00 | -9.1X | | 1.4s | 34.09nm | | 5.5mb | | | |
| | 1.2s | 44.00nm | | | | 4.8mb | | e | 05 37.00 | | | MEQ | 98.67 | 55 | e(P) | 11 | 03.70 | -0.3 | |
| CMB | 24.29 | 133 | eP | 54 | 16.50 | 0.1 | ASPA | 42.70 | 266 iPc | 05 24.50 | -0.9 | | 0.6s | 1.10nm | | 4.5mb | | | |
| KVN | 24.38 | 128 | eP | 54 | 17.50 | 0.0 | WB5 | 43.57 | 271 eP | 05 31.10 | -1.4 | CNCB | 98.89 | 115 | P | 11 | 09.00 | 2.8 | |
| PRS | 25.40 | 136 | eP | 54 | 27.00 | 0.0 | | i | 06 18.50 | | LPB | 98.95 | 115 | (P) | 11 | 16.00 | 9.7X | | |
| FRI | 25.47 | 133 | eP | 54 | 27.20 | -0.3 | WRA | 43.57 | 271 Pc | 05 31.00 | -1.5 | ZOBO | 99.08 | 114 | P | 11 | 09.00 | 2.0 | |
| BW06 | 25.55 | 110 | eP | 54 | 26.80 | -1.8 | | 0.3s | 4.10nm | 4.4mb | | | LR | 24 | 00.00 | | | | |
| TNP | 25.57 | 128 | eP | 54 | 28.20 | -0.6 | FORR | 45.83 | 254 eP | 05 48.50 | -1.7 | INK | 102.80 | 16 | ePd | 11 | 21.00 | -0.7 | |
| PLM | 29.77 | 132 | eP | 55 | 06.00 | -1.0 | WARB | 48.24 | 260 eP | 05 59.50 | -9.6X | MBC | 111.39 | 13 | ePKP | 15 | 55.00 | -2.1 | |
| GOL | 29.95 | 110 | eP | 55 | 07.00 | -1.7 | MTN | 49.33 | 278 eP | 06 14.00 | -3.5X | ALE | 122.17 | 8 | ePKP | 16 | 16.00 | -1.6 | |
| ALQ | 33.10 | 117 | eP | 55 | 34.00 | -2.3 | | i | 06 38.20 | | | 0.8s | 9.00nm | | | | | | |
| | 0.9s | 2.52nm | | | | 4.1mb | | e | 07 11.00 | | FRB | 124.63 | 31 | ePKP | 16 | 21.00 | -1.7 | | |
| SIO | 37.64 | 105 | e(P) | 56 | 12.50 | -2.1 | | e | 07 36.00 | | DAG | 131.44 | 6 | iPKPc | 16 | 33.10 | -2.4 | | |
| LNO | 37.78 | 104 | ePd | 56 | 13.90 | -1.8 | HON | 54.03 | 24 P | 06 51.30 | -1.0 | | 0.7s | 3.42nm | | | | | |
| TUL | 37.78 | 104 | eP | 56 | 14.00 | -1.9 | MBL | 55.78 | 263 eP | 07 02.00 | -3.1X | KEV | 136.89 | 347 | ePKP | 16 | 30.00 | -16.0X | |
| | 0.9s | 2.70nm | | | | 4.0mb | NANU | 58.99 | 260 iPd | 07 26.10 | -1.4 | SOD | 138.95 | 345 | ePKP | 16 | 34.00 | -15.8X | |
| Z | 18s | 3.00um | | | | 5.1MsZ | SPA | 60.93 | 180 e(P) | 07 41.40 | 1.1 | KJF | 141.25 | 342 | ePKP | 16 | 48.00 | -6.1X | |
| | | LR | | 04 | 20.00 | | | 0.9s | 33.64nm | | 5.1mb | | 0.7s | 9.30nm | | | | | |
| RLO | 38.00 | 103 | eP | 56 | 15.30 | -2.4 | | i | 08 28.20 | | SUF | 142.86 | 341 | iPKP | 16 | 51.70 | -5.2X | | |
| BRG | 70.57 | 15 | e(P) | 00 | 06.50 | -8.3 | MAT | 77.01 | 326 eP | 09 17.00 | -1.6 | | 0.3s | 3.80nm | | | | | |
| KHC | 72.21 | 16 | iPd | 00 | 22.30 | -2.4 | | 1.5s | 152.78nm | | 5.5mb | NUR | 145.06 | 340 | iPKP | 16 | 58.60 | -2.1 | |
| LOR | 72.24 | 23 | eP | 00 | 21.90 | -3.0 | | eS | 18 41.00 | | | UPP | 147.47 | 345 | iPKP | 17 | 05.50 | 0.9 | |
| | 1.0s | 6.00nm | | | | 4.6mb | BLP | 83.91 | 45 P | 09 56.20 | 1.2 | NB2 | 147.53 | 351 | PKP | 17 | 06.40 | 1.6 | |
| SSF | 72.36 | 23 | eP | 00 | 21.90 | -3.7 | SYP | 84.15 | 45 eP | 09 57.00 | 0.6 | | 0.9s | 59.00nm | | | | | |
| | 0.8s | 4.50nm | | | | 4.6mb | PRS | 84.50 | 43 eP | 09 58.50 | 0.6 | HFS | 148.01 | 348 | ePKP | 17 | 06.80 | 1.3 | |
| AVF | 72.59 | 24 | eP | 00 | 28.00 | 1.1 | GCC | 84.61 | 42 eP | 09 58.90 | 0.5 | | 0.8s | 61.30nm | | | | | |
| | 0.6s | 3.00nm | | | | 4.6mb | PCC | 84.70 | 42 eP | 09 59.60 | 0.8 | BNG | 150.48 | 217 | iPKPd | 17 | 15.90 | 5.1X | |
| SMF | 72.83 | 23 | eP | 00 | 27.70 | -0.7 | PSI | 84.78 | 276 eP | 09 58.70 | -1.1 | | 0.3s | 8.00nm | | | | | |
| | 0.6s | 1.80nm | | | | 4.3mb | PRI | 84.80 | 44 eP | 10 00.50 | 0.9 | | | ic | 18 | 11.20 | | | |
| KBA | 74.18 | 17 | iPc | 00 | 33.00 | -3.4 | ABL | 84.83 | 45 P | 10 00.50 | 0.6 | | | ic | 18 | 27.00 | | | |
| | 0.9s | 8.80nm | | | | 4.8mb | MHC | 85.03 | 42 eP | 10 01.30 | 0.6 | HR1 | 150.48 | 287 | e(PKP) | 17 | 17.00 | 6.7X | |
| SPA | 147.07 | 180 | e(PKP) | 08 | 40.00 | 0.9 | BRK | 85.03 | 41 eP | 10 00.90 | 0.4 | PRN1 | 150.91 | 281 | iPKPd | 17 | 17.00 | 6.0X | |
| | 1.0s | 4.00nm | | | | | BKS | 85.04 | 41 iPc | 10 01.60 | 1.0 | MBH | 150.95 | 279 | ePKP | 17 | 17.00 | 6.1X | |
| | 64 obs. associated | | | | | | | 0.8s | 50.00nm | | 5.3mb | BBTK | 152.24 | 301 | iPKPd | 17 | 19.50 | 6.8X | |
| | | | | | | | | | e(S) | 21 | 43.00 | | EKA | 153.71 | 6 | PKPd | 17 | 35.40 | 21.3X |
| | | | | | | | | | e(LQ) | 32 | 45.00 | | | 1.1s | 31.80nm | | | | |
| FEB 16, 1989 06h 57m 46.41±0.78s | | | | | | | BAR | 85.06 | 48 eP | 10 01.00 | 0.2 | VRI | 154.13 | 317 | ePKP | 17 | 27.50 | 12.5X | |
| 29.239 S ± 8.9km 178.560 W ± 5.2km | | | | | | | NWRM | 85.07 | 41 P | 10 00.90 | 0.3 | MLR | 154.80 | 317 | ePKP | 17 | 28.00 | 11.9X | |
| DEPTH = 198.9 ± 7.6 km | | | | | | | ARN | 85.09 | 42 P | 10 01.40 | 0.5 | KSP | 155.70 | 337 | ePKP | 17 | 26.50 | 9.5X | |
| 4.9mb (22 obs.) | | | | | | | MWC | 85.15 | 46 eP | 10 01.00 | -0.5 | | | ic | 17 | 44.20 | | | |
| KERMADEC ISLANDS (178) | | | | | | | PLM | 85.36 | 48 eP | 10 02.00 | -0.5 | LIC | 156.31 | 164 | PKP | 17 | 20.00 | 1.1 | |
| | | | | | | | RVR | 85.44 | 47 eP | 10 03.00 | 0.4 | KIC | 156.51 | 164 | PKP | 17 | 19.30 | 0.2 | |
| RAO | 0.56 | 91 | iP | 58 | 16.10 | 1.9 | PEC | 85.51 | 47 P | 10 03.10 | 0.1 | TIC | 156.71 | 164 | PKP | 17 | 20.00 | 0.6 | |
| KRP | 9.96 | 208 | P | 00 | 04.00 | -2.0 | SNG | 85.53 | 281 eP | 10 03.80 | 0.4 | | | | | | | | |
| WEL | 13.19 | 203 | P | 00 | 43.00 | -4.3X | | | e | 10 08.40 | | | S.D. = 1.1 on 91 of 115 obs. | | | | | | |
| | | S | | 03 | 00.00 | | | | | | | | | | | | | | |
| DZM | 15.28 | 294 | iPd | 01 | 16.40 | 3.0X | SBB | 85.60 | 46 eP | 10 04.00 | 0.5 | | | | | | | | |
| | | iS | | 04 | 04.20 | | FRI | 85.94 | 43 eP | 10 05.20 | 0.2 | | & FEB 16, 1989 07h 06m 03.68s | | | | | | |
| AFI | 16.50 | 24 | P | 01 | 21.40 | -6.8X | FHC | 86.09 | 38 P | 10 07.10 | 1.4 | | 58.343 N | | | | | | |
| PVC | 16.60 | 311 | iPc | 01 | 20.10 | -9.2X | | 0.8s | 17.65nm | 4.9mb | | | DEPTH = 99.6km | | | | | | |
| RAR | 18.77 | 69 | P | 01 | 52.00 | -0.8 | CMB | 86.23 | 42 ePd | 10 06.60 | 0.1 | | ALASKA PENINSULA (12) | | | | | | |
| | | S | | 05 | 15.00 | | TPC | 86.36 | 48 eP | 10 07.00 | -0.2 | | <AGS-P>. | | | | | | |
| MSZ | 18.77 | 211 | P | 01 | 50.80 | -1.9 | | | e | 11 29.00 | | KDC | 1.87 | 107 | eP | 06 | 33.08 | -1.9 | |
| | 0.3s | 24.00nm | | | | 5.2mb | CLC | 86.46 | 45 eP | 10 08.00 | 0.3 | | | eS | 06 | 59.22 | | | |
| | | S | | 05 | 06.00 | | | | e | 11 25.00 | | ILIM | 2.28 | 39 | eP | 06 | 39.57 | -1.0 | |
| COO | 25.62 | 260 | eP | 03 | 02.00 | 2.7 | GLA | 86.50 | 49 eP | 10 08.00 | 0.1 | CNPM | 2.66 | 62 | eP | 06 | 44.21 | -1.3 | |
| CAN | 28.01 | 249 | eP | 03 | 21.00 | 0.2 | GSC | 86.63 | 46 eP | 10 09.00 | 0.5 | | | eS | 07 | 16.21 | | | |
| | | i | | 04 | 11.50 | | WDC | 86.72 | 39 ePd | 10 08.90 | 0.2 | RDT | 2.84 | 36 | eP | 06 | 46.81 | -1.2 | |
| BWA | 28.45 | 251 | eP | 03 | 25.50 | 0.7 | MIN | 87.08 | 40 eP | 10 10.50 | -0.2 | SPU | 3.43 | 32 | eP | 06 | 54.06 | -2.0 | |
| | | e | | 04 | 16.70 | | MDJ | 87.39 | 326 eP | 10 05.80 | -6.0X | CRP | 3.47 | 31 | eP | 06 | 55.11 | -1.6 | |
| AFR | 28.79 | 73 | iP | 03 | 26.80 | -1.0 | SAN | 87.59 | 127 eP | 10 14.50 | 1.2 | CGLM | 3.54 | 31 | eP | 06 | 55.89 | -1.8 | |
| | 0.8s | 25.00nm | | | | 5.0mb | LBFM | 87.61 | 39 P | 10 13.60 | 0.4 | SLKM | 3.59 | 50 | eP | 06 | 56.32 | -2.0 | |
| PAE | 28.90 | 73 | iP | 03 | 27.80 | -1.0 | PEL | 87.74 | 127 iPd | 10 15.00 | 0.9 | | | eS | 07 | 36.78 | | | |
| | 0.8s | 15.00nm | | | | 4.8mb | KVN | 88.25 | 43 P | 10 16.00 | -0.3 | PTE | 4.28 | 51 | P | 07 | 04.37 | -3.3 | |
| PPT | 28.94 | 73 | iP | 03 | 28.40 | -0.8 | TIA | 88.82 | 313 eP | 10 19.80 | 0.9 | PMS | 4.30 | 45 | eP | 07 | 04.60 | -3.4 | |
| | 0.8s | 15.00nm | | | | 4.8mb | CN2 | 88.92 | 323 Pd | 10 19.00 | -0.1 | PWL | 4.56 | 53 | eP | 07 | 07.70 | -4.0 | |
| Z | 22s | 1.00um | | | | 4.4MsZ | | | eS | 20 | 47.00 | KNK | 4.82 | 47 | eP | 07 | 10.46 | -4.8 | |
| RMO | 28.98 | 267 | eP | 03 | 37.00 | 7.5X | KDC | 89.38 | 14 P | 10 21.20 | 0.3 | SML | 5.11 | 44 | eP | 07 | 14.12 | -5.1 | |
| </ | | | | | | | | | | | | | | | | | | | |

16d 07h

KLU 5.90 53 eP 07 25.18 -5.0
15 obs. associated

% FEB 16, 1989 09h 57m 00.28±0.82s
39.085 N ± 6.8km 27.634 E ± 8.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM 0.74 203 ePg 57 14.90 0.0
eSg 57 26.40
DST 0.93 56 ePn 57 18.10 0.0
EZM 1.25 307 iPn 57 23.60 0.0
EDC 1.27 8 ePn 57 23.50 -0.4
BNT 1.29 10 iPn 57 24.60 0.4
KCT 1.29 25 iPn 57 24.10 -0.1
S.D. = 0.3 on 6 of 6 obs.

FEB 16, 1989 09h 57m 58.74±0.70s
5.857 N ± 3.4km 125.800 E ± 4.4km
DEPTH = 122.9 ± 7.0 km
5.3mb (36 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

DAV 1.24 350 iPd- 58 24.00 0.2
is 58 38.10
MNI 4.49 192 ePc 59 07.00 1.2
eS 59 57.50
TSM 7.87 258 eP 59 57.50 5.6X
AAI 9.78 166 eP 00 15.70 -1.9
QCP 9.88 332 eP 00 14.00 -5.0X
BAG 11.67 334 eP 00 46.00 3.2X
2.0s 270.59nm 5.6mb
eS 03 00.00
MKS 12.69 210 e(P) 01 00.00 4.1X
e 03 07.00
TLE 13.36 149 ePd 01 03.90 -0.8
JAY 17.05 119 ePd 01 51.00 -0.2
KHKI 17.40 216 eP 02 03.50 8.1X
e 05 22.30
TRT 18.81 224 ePc 02 12.00 0.4
MTN 19.32 164 eP 02 15.00 -1.9
GUMO 20.29 66 eP 02 26.00 -0.9
1.5s 990.99nm 6.0mb
GUA 20.31 67 eP 02 26.20 -1.0
OIZ 20.32 312 eP 02 27.50 0.3
N 12s 0.90um
PP 02 52.00
eS 06 07.00
SS 06 37.00
GZH 20.92 326 eP 02 34.00 0.8
KNA 21.67 172 iPd 02 41.60 0.9
0.7s 265.00nm 5.7mb
KGM 22.75 261 eP 02 54.50 3.3X
IPM 24.70 268 ePc 03 11.10 1.0
0.9s 53.50nm 5.0mb
KSI 25.02 248 ePc 03 14.50 1.5
e 04 05.00
SNG 25.05 274 eP 03 12.20 -1.1
SSE 25.48 351 P 03 21.00 3.9X
1.0s 24.00nm 4.7mb
ePP 03 59.00
e(S) 07 40.00
esS 07 54.00
PPI 26.13 257 ePd 03 24.20 1.0
0.8s 83.40nm 5.4mb
PMG 26.13 125 iPd 03 22.50 -0.7
1.0s 84.00nm 5.3mb
LOE 26.18 298 eP 03 24.90 1.2
NNT 26.57 286 eP 03 20.00 -7.2X
WHN 26.81 338 eP 03 36.50 7.2X
NJ2 26.86 347 Pc 03 35.40 5.7X
WB5 26.93 162 iPc 03 29.80 -0.7
i 03 35.10
eS 07 55.00
PSI 26.98 264 Pc 03 30.60 -0.4
1.0s 24.20nm 4.7mb
WRA 26.98 162 Pc 03 29.70 -1.2
0.8s 13.10nm 4.6mb
NST 27.00 293 eP 03 32.40 1.2
GYA 27.44 320 P 03 36.00 0.8
MBL 27.48 192 eP 03 34.40 -1.0
0.4s 12.00nm 4.9mb
BDT 28.54 296 eP 03 46.10 1.1
CHG 29.17 299 eP 03 51.30 0.6
KMI 29.24 313 Pd 03 52.50 0.9
OIS 29.55 153 iPc 03 53.40 -0.6
e 03 59.00

NANU 29.98 199 iPc 04 10.00
0.4s 26.00nm 5.3mb
ASPA 30.39 165 iPc 04 00.90 -0.5
0.6s 20.00nm 5.0mb
eS 08 50.60
eScS 14 21.50
TIA 31.24 346 eP 04 09.20 0.5
WARB 31.86 179 iPd 04 06.40 -7.8X
PAA 32.00 112 eP 04 16.50 0.8
XAN 32.11 333 P 04 14.30 -2.1
CD2 32.39 323 eP 04 17.90 -1.0
MAT 32.59 19 iPc 04 19.20 -1.3
0.8s 27.61nm 5.1mb
(S) 09 12.00
CTA 32.70 143 iPd 04 22.50 0.9
1.0s 60.00nm 5.3mb
i 10 39.00
MEKA 33.04 192 eP 04 23.70 -0.8
0.3s 38.00nm 5.7mb
TIY 33.97 341 eP 04 31.20 -1.3
BJI 35.12 347 eP 04 41.00 -1.1
e 10 12.50
SNY 35.87 357 iPd 04 49.40 1.0
MRWA 36.12 195 eP 04 50.30 -0.4
0.4s 18.00nm 5.3mb
LZH 36.21 329 eP 04 51.50 -0.1
2.0s 82.00nm 5.2mb
i 05 25.50
FORR 36.56 177 iPc 04 53.80 -0.5
0.4s 52.00nm 5.7mb
COOL 36.80 187 iPc 04 55.60 -0.8
0.4s 8.00nm 4.9mb
HHC 37.10 342 P 04 59.00 0.0
BAL 37.29 193 iPc 05 00.10 -0.4
0.4s 24.00nm 5.4mb
BTO 37.37 340 eP 05 02.60 1.4
KLB 38.02 191 iPc 05 06.40 -0.2
0.4s 29.00nm 5.5mb
MUN 38.72 193 iPc 05 12.30 -0.1
0.7s 38.00nm 5.3mb
MDJ 38.75 4 iPc 05 13.20 0.7
iS 11 04.00
RMO 39.10 146 eP 05 22.00 6.3X
NWA0 39.42 191 iPc 05 18.60 0.4
0.4s 31.00nm 5.4mb
LSA 40.36 310 P 05 27.60 1.0
RKG 40.57 191 iPd 05 33.20 5.5X
0.4s 24.00nm 5.3mb
GTA 40.81 329 P 05 29.50 -0.2
CMS 41.77 154 eP 05 38.00 0.5
BRS 42.10 143 iPd 05 40.00 -0.4
e 05 48.70
e 06 11.00
iPcP 11 13.40
ADE 42.39 164 iPc 05 44.10 1.5
0.7s 136.99nm 5.8mb
GUN 43.74 305 P 05 53.60 -0.5
PKI 44.00 304 P 05 56.20 0.0
COO 44.01 147 eP 05 57.00 1.2
KKK 44.19 304 P 05 57.40 -0.2
DMN 44.27 304 P 05 58.60 0.4
GKN 44.80 304 P 06 02.20 -0.1
BWA 45.41 153 eP 06 09.30 2.5
CAN 46.42 154 eP 06 16.30 1.5
TOO 46.94 159 eP 06 21.00 2.0
HYB 47.55 288 eP 06 24.80 0.8
GBA 48.21 283 Pc 06 28.00 -1.1
0.8s 27.50nm 5.1mb
DZM 48.52 126 iPc 06 32.00 0.5
WMO 50.46 325 P 06 45.50 -0.5
NDI 51.20 302 iPd 06 51.00 -0.7
TAU 52.32 160 eP 06 56.10 -3.8X
KSH 55.87 314 eP 07 26.50 0.5
QUE 60.24 301 iPd 07 56.30 -0.5
MSZ 62.90 147 P 08 14.30 0.4
0.3s 31.00nm 5.7mb
ADK 65.75 35 ePd 08 32.40 0.1
0.8s 48.90nm 5.5mb
MAIO 67.50 307 iPc 08 43.00 -0.9
2.0s 46.51nm 5.0mb
SDN 75.95 34 eP 09 34.00 0.5
SVW 79.38 29 eP 09 54.10 1.7
TTA 79.44 27 eP 09 54.00 1.3
KDC 80.65 33 eP 09 59.70 0.7
IMA 80.83 24 ePc 10 01.40 1.3
0.8s 11.00nm 4.7mb

PMR 82.54 29 ePc 10 09.20 0.4
1.2s 66.40nm 5.4mb
FBA 83.21 25 ePc 10 12.20 0.0
TOA 83.94 28 eP 10 17.50 1.4
KEV 87.59 340 eP 10 53.00 19.2X
SOD 88.16 338 iP 10 47.60 11.0X
KJF 88.29 334 eP 10 36.00 -1.2
INK 88.54 21 eP 10 38.50 0.2
SUF 89.25 333 iP 10 40.30 -1.5
0.4s 13.30nm 5.4mb
MBC 90.09 13 eP 10 47.00 1.5
0.7s 7.00nm 4.9mb
NUR 90.41 331 eP 10 45.00 -2.2
VRI 92.13 316 eP 10 36.50 -19.0X
MLR 92.74 316 eP 10 57.50 -0.9
DAG 95.05 352 iPc 11 06.80 -1.6
0.8s 26.87nm 5.7mb
HFS 95.72 332 ePKP 11 09.20 -2.5
0.4s 1.70nm 4.9mb
NB2 96.48 334 P 11 12.70 -2.5
1.0s 8.50nm 5.2mb
KSP 97.60 323 eP 11 20.00 -0.3
YKA 97.95 24 P 11 22.80 1.1
GOL 114.63 41 PKP 16 27.10 0.3
ALQ 116.26 46 ePKP 16 29.00 -1.0
1.0s 2.75nm
KIC 129.17 283 PKP 16 54.20 -0.8
LIC 129.47 283 PKP 16 55.00 -0.6
LNV 147.81 153 ePKP 17 32.00 4.0X
PEL 148.82 153 iPKPd 17 34.60 4.8X
CNCB 162.67 130 PKP 17 49.00 0.5
LPB 162.74 129 ePKP 17 54.00 5.6X
ZOBO 162.87 128 PKP 17 50.00 1.3
BAO 168.53 212 ePKP 17 53.00 0.2
S.D. = 1.1 on 101 of 121 obs.

% FEB 16, 1989 10h 29m 17.81±0.75s
39.261 N ± 6.6km 27.716 E ± 7.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

DST 0.79 64 ePg 29 33.20 0.1
IZM 0.93 202 ePn 29 35.40 -0.2
EDC 1.09 6 ePn 29 37.50 -0.8
KCT 1.10 26 iPn 29 38.50 0.0
BNT 1.10 8 iPn 29 38.60 0.1
EZM 1.21 298 ePn 29 40.80 0.4
YLV 1.82 44 ePn 29 50.00 0.5
S.D. = 0.5 on 7 of 7 obs.

* FEB 16, 1989 11h 10m 19.14±1.31s
7.288 S ± 9.7km 130.088 E ± 12.7km
DEPTH = 69.5 ± 16.6 km
4.7mb (5 obs.)
TANIMBAR ISLANDS REGION (281)

TLE 3.11 58 ePd 11 05.30 -1.6
iS 11 29.00
AAI 4.04 332 eP 11 21.00 1.0
MTN 5.62 170 eP 11 54.00 12.0X
KNA 8.51 189 eP 12 33.00 10.9X
0.2s 23.00nm
eS 14 11.00
WB5 13.19 162 iPd 13 25.10 0.1
WRA 13.24 162 Pd 13 25.20 -0.5
0.8s 3.60nm 4.1mb
OIS 16.09 146 eP 14 10.00 7.4X
eS 17 00.00
ASPA 16.69 168 eP 14 19.00 8.9X
0.6s 15.00nm 4.4mb
eS 17 21.20
MBL 16.98 215 eP 14 24.00 10.3X
PMG 17.02 98 eP 14 16.00 1.9
CTA 20.19 131 eP 15 05.00 14.2X
GUN 55.21 311 P 19 47.60 -0.2
0.4s 10.00nm 5.2mb
PKI 55.38 311 P 19 48.90 -0.1
0.6s 7.00nm 4.9mb
KKK 55.59 311 P 19 50.10 -0.3
0.6s 7.00nm 4.9mb
DMN 55.63 311 P 19 50.80 0.1
GKN 56.19 311 P 19 54.40 -0.2
MEO 127.65 51 ePdiff26 16.30 14.8X
0.5s 8.10nm
SIO 129.04 49 e(Pdiff26 17.30 9.7X
TUL 129.36 49 ePdiff26 19.80 10.7X
0.8s 13.90nm

LNO 129.36 49 iPd iff 26 20.10 11.2X
S.D. = 1.1 on 10 of 20 obs.

? FEB 16, 1989 12h 07m 07.35± 2.63s
7.364 S ± 18.8km 130.602 E ± 36.6km
DEPTH = 33.0km (normal)
4.1mb (1 obs.)

TANIMBAR ISLANDS REGION (281)

TLE 2.74 51 iPc 07 49.90 0.0
MTN 5.47 175 iPd 08 34.80 6.1X
KNA 8.53 192 eP 09 11.50 0.0
WB5 12.97 164 eP 10 11.50 -0.5
WRA 13.02 164 Pc 10 13.20 0.4
ASPA 16.52 169 iPd 10 58.40 0.1
0.4s 7.00nm 4.1mb
eS 14 02.80
S.D. = 0.5 on 5 of 6 obs.

FEB 16, 1989 12h 24m 50.18± 1.56s

43.386 N ± 9.8km 5.405 E ± 9.5km
DEPTH = 10.0km (geophysicist)

NEAR SOUTH COAST OF FRANCE (379)
MD 2.7 (STR).

GELF 0.02 98 Pg 24 51.15 -1.0
TREF 0.24 356 Pg 24 54.95 -0.3
PUYF 0.26 56 Pg 24 54.83 -0.9
PRAF 0.45 338 Pg 24 59.97 0.6
VILF 0.52 26 Pg 24 59.94 -0.7
TAVF 0.53 64 Pg 25 00.17 -0.7
CALN 1.14 71 Pg 25 12.15 0.5
MVIF 1.37 67 Pn 25 15.93 0.5
TOUF 1.48 64 Pn 25 17.53 0.5
AURF 1.48 70 Pn 25 17.40 0.4
AUTN 1.59 67 Pn 25 19.48 0.9
CVF 2.67 107 Pn 25 33.44 -0.6
S.D. = 0.8 on 12 of 12 obs.

* FEB 16, 1989 12h 30m 58.25± 1.12s
42.899 N ± 8.8km 24.852 E ± 18.3km
DEPTH = 10.0km (geophysicist)

BULGARIA (359)

SRS 2.01 208 eP 31 32.40 -0.2
VAY 2.32 228 ePn 31 35.00 -2.0
SOH 2.36 209 eP 31 38.90 1.2
OUR 2.64 195 eP 31 41.90 0.2
GRG 2.67 224 eP 31 42.60 0.6
SKO 2.69 251 ePn 31 50.00 7.6X
VRI 3.26 24 eP 31 50.00 -0.4
BZS 3.58 321 ePc 31 55.50 0.6
S.D. = 1.3 on 7 of 8 obs.

% FEB 16, 1989 12h 51m 09.29± 0.78s
40.608 N ± 5.8km 27.575 E ± 7.0km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

EDC 0.34 140 iPg 51 16.50 0.2
BNT 0.36 134 iPg 51 16.50 -0.3
CTT 0.84 50 ePn 51 25.80 0.2
DMK 1.22 6 ePn 51 31.80 -0.2
EZN 1.24 231 ePn 51 32.30 0.1
YLV 1.37 91 ePn 51 34.50 0.0
S.D. = 0.3 on 6 of 6 obs.

FEB 16, 1989 13h 23m 35.88± 0.84s

24.346 S ± 7.7km 179.859 E ± 3.7km
DEPTH = 508.8 ± 10.5 km
4.8mb (27 obs.)

SOUTH OF FIJI ISLANDS (171)

DZM 12.54 278 iPd 26 23.20 2.0
KRP 14.03 194 P 26 41.90 5.7X

HNR 24.09 305 eP 28 11.00 -1.3
COO 25.54 250 eP 28 27.00 1.7
RMO 28.14 259 iPd 28 56.30 8.3X
CAN 28.81 241 eP 28 55.20 1.4
BWA 29.08 243 eP 28 55.70 -0.5
AFR 29.11 82 iP 28 55.90 -0.6
1.0s 45.00nm 5.0mb
PAE 29.25 83 iP 28 57.30 -0.4
1.0s 25.00nm 4.7mb
PPT 29.29 83 iP 28 57.70 -0.3
1.0s 60.00nm 5.1mb
PPN 29.43 83 iP 28 58.90 -0.3
1.0s 25.00nm 4.7mb
TVO 29.51 83 iP 28 59.60 -0.5
1.0s 30.00nm 4.8mb
CMS 30.81 249 eP 29 12.00 0.9
CTA 31.35 271 iPd 29 16.30 0.5
0.9s 186.55nm 5.6mb

PMO 31.68 79 iP 29 18.10 -0.4
1.0s 25.00nm 4.7mb
VAH 31.84 80 iP 29 19.20 -0.6
1.0s 30.00nm 4.8mb
TPT 31.94 79 iP 29 20.20 -0.5
1.0s 40.00nm 4.9mb
RUV 32.08 80 iP 29 21.40 -0.4
1.0s 40.00nm 4.9mb
TAU 32.54 227 eP 29 27.00 1.5
PMG 34.52 290 iPd 29 42.00 -0.4
0.8s 100.00nm 5.4mb
QIS 37.30 268 iPd 30 05.60 0.2
ASPA 41.84 261 iPd 30 42.40 0.2
eScP 35 29.30
iS 36 20.60
iScS 39 47.00
WB5 42.24 267 iPd 30 44.80 -0.5
eScP 35 31.80
eS 36 34.00

WRA 42.25 267 Pc 30 45.20 -0.2
0.7s 35.10nm 5.0mb
FORR 46.00 250 iPc 31 14.00 -0.5
0.4s 70.00nm 5.5mb
MTN 47.36 275 iPc 31 24.20 -0.9
KNA 48.53 270 iPd 31 33.50 -0.5
COOL 51.93 249 eP 31 57.50 -1.5
0.4s 8.00nm 4.4mb

KLB 54.69 248 iPd 32 17.80 -0.8
0.4s 8.00nm 4.4mb
NWA0 54.94 246 eP 32 20.00 -0.3
0.4s 4.00nm 4.1mb
RKG 54.96 244 eP 32 19.70 -0.7
MBL 55.08 260 iPd 32 20.20 -1.2
0.3s 8.00nm 4.5mb
BAL 55.75 249 eP 32 25.00 -1.0
0.4s 17.00nm 4.7mb
MUN 55.94 247 eP 32 26.50 -0.8
MRWA 56.61 250 eP 32 30.00 -2.0
NANU 58.56 258 iPd 32 45.10 -0.2
0.3s 20.00nm 5.0mb

SPA 65.80 180 ePc 33 33.50 1.7
0.7s 14.84nm 4.7mb
SYF 81.76 46 eP 35 03.00 0.9
PRS 81.95 44 iPc 35 03.50 0.6
GCC 81.99 43 eP 35 03.50 0.5
PCC 82.04 43 eP 35 03.70 0.4
PHAM 82.27 45 P 35 05.30 0.8
PRI 82.28 45 eP 35 05.30 0.6
BRK 82.35 43 eP 35 05.30 0.5
BKS 82.37 43 iPc 35 05.50 0.6
0.8s 38.00nm 5.0mb
LLA 82.40 44 eP 35 05.50 0.4
MHC 82.40 43 iPc 35 06.00 0.7
ABL 82.45 46 P 35 06.30 0.6
ARN 82.47 43 P 35 06.20 0.7
BAR 82.92 49 eP 35 07.00 -0.8
PLM 83.17 49 eP 35 09.00 -0.3
WHN 83.17 308 P 35 10.00 0.9
RVR 83.18 48 eP 35 08.00 -1.1
PEC 83.27 48 P 35 09.80 0.2
SBB 83.28 47 eP 35 09.00 -0.7
FRI 83.41 45 ePc 35 10.40 0.3
CMB 83.61 43 ePc 35 11.40 0.2
ORV 83.86 42 eP 35 12.60 0.2
WDC 83.88 40 iPc 35 12.80 0.4
LTCM 83.89 41 P 35 12.90 0.4
CLC 84.09 46 eP 35 14.00 0.3

TPC 84.15 49 eP 35 14.00 0.0
CN2 84.17 324 eP 35 14.00 0.2
MIN 84.29 41 eP 35 14.50 -0.2
GSC 84.32 47 eP 35 15.00 0.2
GLA 84.41 50 eP 35 16.00 0.7
LBFM 84.74 40 P 35 17.60 0.7
TNP 85.65 45 P 35 21.50 0.1
0.9s 12.37nm 4.6mb

KVN 85.65 44 P 35 21.40 0.0
SHW 87.61 36 P 35 31.50 1.1
VGB 87.98 37 P 35 32.50 0.4
GMW 88.18 35 P 35 33.10 0.2
LON 88.19 36 P 35 33.00 0.0
TIY 88.40 313 Pd 35 35.40 1.2
RMW 88.64 35 P 35 35.40 0.3
TTA 89.07 11 P 35 35.90 -0.8
1.0s 10.75nm 4.7mb
MSU 89.19 47 P 35 38.60 0.6
PMR 89.21 14 P 35 36.30 -1.0
0.8s 12.93nm 4.8mb
DPW 90.81 36 P 35 44.60 -0.5
PNT 90.93 35 eP 35 45.00 -0.5
ALQ 91.33 52 eP 35 47.90 -0.1
1.2s 14.45nm 4.8mb

FBA 92.41 13 P 35 50.30 -1.7
1.0s 8.75nm 4.7mb
LRM 92.92 40 eP 35 54.70 -0.4
BW06 93.11 44 P 35 55.00 -1.0
1.1s 10.42nm 4.8mb
GOL 94.36 48 P 36 01.70 -0.1
SOD 133.88 346 ePKP 41 40.00 -15.3X
SUF 137.79 342 ePKP 41 56.00 -6.8X
NB2 142.50 351 PKP 42 06.40 -4.9X
0.8s 4.60nm
KRA 149.95 334 iPKP 42 28.50 4.9X
MLR 150.18 322 ePKPd 42 30.00 5.7X
CLL 151.24 343 iPKP 42 31.90 6.4X
0.9s 48.00nm
ipP 44 37.10

BRG 151.36 341 iPKPc 42 32.00 6.3X
1.0s 30.00nm
e 44 37.70
PRU 151.96 340 ePKP 42 33.10 6.5X
KHC 153.02 340 ePKP 42 28.30 0.2
BNG 153.25 225 ePKPd 42 29.20 -0.3
0.6s 4.00nm
LIC 161.38 165 PKP 42 39.40 0.3
KIC 161.58 165 PKP 42 39.20 -0.1
TIC 161.79 164 PKP 42 39.40 -0.1
S.D. = 0.8 on 88 of 98 obs.

& FEB 16, 1989 13h 51m 12.00s
34.010 N 117.740 W
DEPTH = 3.0km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.2 (PAS). Felt
(111) at La Habra. Felt in parts
of Los Angeles and San
Bernardino Counties.

RVR 0.30 93 iPc 51 17.80 -0.3
MWC 0.34 309 iPc 51 18.70 -0.1
PAS 0.38 291 iPc 51 19.30 -0.4
PEC 0.50 104 iPc 51 21.40 -0.5
SBB 0.68 354 iPd 51 24.90 -0.7
CIS 0.82 223 eP 51 27.50 -0.8
PLM 0.98 132 iPc 51 29.90 -1.5
TPC 1.41 86 ePc 51 37.80 -0.8
ABL 1.48 305 eP 51 38.70 -1.1
BCH 2.26 302 eP 51 50.70 -0.3
BLP 2.27 285 eP 51 49.00 -2.0
GLA 2.61 111 eP 51 54.00 -1.9
CMB 4.55 333 e(P) 52 24.00 0.6
KVN 5.04 357 eP 52 31.50 1.0
14 obs. associated

* FEB 16, 1989 14h 30m 45.34± 0.88s
40.497 N ± 15.7km 142.117 E ± 14.2km
DEPTH = 33.0km (normal)
4.8mb (3 obs.)
NEAR EAST COAST OF HONSHU, JAPAN (228)

MAT 5.00 219 iPc 32 00.00 -0.1
eS 32 56.00
BJI 19.78 277 (P) 35 14.00 -1.6
GUN 47.45 273 P 39 19.20 0.0
KKN 47.96 273 P 39 23.20 0.1

16d 14h

0.6s 10.00nm 5.0mb
 PKI 47.98 273 P 39 24.20 0.8
 DMN 48.19 273 P 39 25.40 0.5
 GKN 48.35 274 P 39 25.80 -0.2
 0.6s 6.00nm 4.8mb
 INK 51.07 28 eP 39 46.00 0.0
 YKA 60.55 31 P 41 06.20 11.8X
 NB2 71.21 337 P 42 02.60 0.0
 0.8s 3.60nm 4.5mb
 LRM 71.31 45 eP 42 03.40 -0.4
 42 17.40
 FRB 73.28 14 eP 42 14.00 -0.7
 KHC 79.88 329 eP 42 53.60 1.6
 S.D. = 0.9 on 12 of 13 obs.

* FEB 16, 1989 15h 02m 09.89±0.76s
 37.464 N ±11.2km 30.707 E ±7.9km
 DEPTH = 21.2 ± 10.3 km

TURKEY (366)

BCK 0.09 268 iPg 02 13.90 -0.2
 ELL 0.96 222 iPn 02 27.70 -0.1
 KHL 1.27 313 iPn 02 33.20 0.7
 IKL 2.68 116 iPn 02 53.00 0.3
 BBTK 2.87 33 eP 02 55.00 -0.4
 03 32.00
 IZM 2.88 290 ePn 02 55.20 -0.3
 S.D. = 0.6 on 6 of 6 obs.

FEB 16, 1989 15h 21m 45.01±1.70s
 7.741 S ±7.5km 127.397 E ±10.1km
 DEPTH = 63.2 ± 19.2 km
 4.5mb (5 obs.)

BANDA SEA (280)

KUPT 4.45 237 eP 22 25.50 -26.0X
 TLE 5.71 69 ePc 23 10.50 1.2
 MTN 6.26 144 eP 23 16.00 -1.0
 KNA 8.07 171 iPd 23 40.70 -1.4
 0.3s 100.00nm 6.2mb X
 eS 25 04.00

WRA 13.87 152 Pd 24 56.10 -4.1X
 0.4s 4.90nm 4.4mb
 MBL 15.21 208 eP 25 17.80 0.3
 0.3s 5.00nm 4.3mb
 eS 27 54.00

ASPA 17.02 159 iPd 25 37.10 -3.3X
 0.7s 29.00nm 4.6mb
 eS 28 34.80

QIS 17.37 138 eP 25 44.00 -0.8
 eS 28 40.00
 WARB 18.36 182 eP 25 48.20 -8.7X
 eS 29 00.00

NANU 18.64 216 eP 26 02.00 1.7
 eS 29 21.00
 PMG 19.61 96 eP 26 12.00 0.9
 MEKA 20.57 203 iPc 26 22.00 0.9

FORR 23.00 178 eP 26 45.00 -0.2
 MRWA 23.91 205 eP 26 53.00 -1.0
 BAL 24.85 202 eP 27 04.00 0.9
 KLB 25.38 199 eP 27 09.00 1.0

MUN 26.27 202 eP 27 16.00 -0.3
 NWA0 26.78 199 eP 27 21.00 0.1
 0.6s 10.00nm 4.6mb
 GUN 53.53 313 P 31 01.60 -0.5
 0.6s 12.00nm 5.1mb

PKI 53.68 313 P 31 02.40 -0.8
 KKN 53.90 313 P 31 04.10 -0.5
 DMN 53.92 312 P 31 04.50 -0.4
 YKA 109.54 26 PKP 40 05.20 -4.5X
 PNT 110.76 40 ePKP 40 16.00 3.5X

S.D. = 1.0 on 18 of 24 obs.

? FEB 16, 1989 15h 34m 00.02±1.12s
 54.037 N ±25.4km 171.442 W ±16.4km
 DEPTH = 33.0km (normal)
 4.5mb (1 obs.)

FOX ISLANDS, ALEUTIAN ISLANDS (9)

ML 4.7 (PMR).

ADK 3.83 238 iP 34 58.60 0.5
 SDN 6.48 74 eP 35 35.10 -0.4
 KDC 11.26 63 eP 36 40.50 -1.0
 PMS 13.71 49 eP 37 16.20 2.0
 TOA 15.53 49 eP 37 40.70 2.8X
 FBA 16.09 38 eP 37 50.10 5.1X
 INK 22.69 36 eP 38 59.50 0.2

MBC 29.45 23 eP 40 03.00 0.7
 FRB 48.34 35 eP 42 36.00 -3.7X
 NB2 65.25 359 P 44 38.00 -2.0
 0.7s 3.20nm 4.5mb
 S.D. = 1.6 on 7 of 10 obs.

* FEB 16, 1989 16h 03m 30.88±2.04s
 36.519 N ±16.3km 21.627 E ±18.2km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN GREECE (368)
 ML 3.5 (ATH).

VLS 1.85 334 ePn 04 02.50 -0.4
 ATH 2.21 48 ePn 04 07.00 -1.1
 VAM 2.36 117 ePn 04 10.50 0.2
 NEO 3.06 24 ePn 04 21.20 1.1
 NPS 3.47 110 ePb 04 30.70 4.7X
 KZN 3.78 2 ePn 04 30.70 0.1
 OHR 4.63 352 eP 05 04.00 21.4X
 VAY 4.85 8 e(Pn) 04 39.40 -6.2X
 S.D. = 1.1 on 5 of 8 obs.

FEB 16, 1989 16h 36m 52.13±0.20s
 56.404 S ±7.9km 121.964 W ±6.2km
 DEPTH = 10.0km (geophysicist)
 5.4mb (20 obs.) 6.0Msz (16 obs.)
 EASTER ISLAND CORDILLERA (684)

Ms 6.0 (BRK). Mo=5*10**18 Nm
 (PPT).

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 15S, 40C M.W.: 12S, 27C

Centroid Location:

Origin Time 16:37: 0.4 0.1

Lot 56.45S 0.02 Lon 122.00W 0.03

Dep 15.0 FIX Half-duration 5.0

Moment Tensor: Scale 10**18 Nm

Mrr=-0.18 0.02 Mtt= 0.88 0.03

Mff=-0.70 0.02 Mrt=-0.30 0.09

Mrf=-0.10 0.08 Mtf= 1.93 0.02

Principal Axes:

T Vol= 2.21 Plg= 7 Azm=146

N -0.22 82 306

P -2.00 3 56

Best Double Couple: Mo=2.1*10**18

NP1: Strike=191 Dip=83 Slip= 177

NP2: 281 87 7

SBA 31.77 202 eP 43 25.20 7.2X

SPA 33.77 180 iPd 43 40.40 4.6X

2.0s 597.50nm 6.2mb

Z 22s 41.80um 6.1Msz

TBI 38.67 317 iP 44 08.20 -9.2X

1.1s 45.00nm 5.1mb

LNV 40.91 79 eP 44 36.00 0.2

SAN 41.70 79 eP 44 42.30 -0.1

PEL 41.92 78 iPd 44 44.60 0.4

WEL 42.71 263 eP 44 56.00 5.5X

S 51 18.00

SS 54 43.00

TVO 43.69 321 iP 44 59.60 0.8

1.2s 70.00nm 5.3mb

PAE 43.92 320 iP 45 01.40 0.9

1.2s 80.00nm 5.4mb

PPN 43.99 321 iP 45 00.80 -0.3

1.2s 35.00nm 5.1mb

PPT 44.00 320 iP 45 02.20 1.0

1.2s 80.00nm 5.4mb

Z 18s 16.00um 6.0Msz

AFR 44.10 320 iP 45 02.80 0.8

1.2s 45.00nm 5.2mb

MSZ 44.17 254 P 45 02.00 -0.3

KRP 44.62 267 P 45 06.00 -0.1

RUV 45.48 324 iP 45 11.50 -1.5

1.2s 50.00nm 5.3mb

VAH 45.51 324 iP 45 11.90 -1.4

1.2s 75.00nm 5.5mb

TPT 45.74 324 iP 45 13.70 -1.4

1.2s 35.00nm 5.2mb

PMO 45.82 324 iP 45 14.20 -1.5

1.2s 40.00nm 5.3mb

HJA 52.58 75 ePd 46 08.20 0.3

ARE 55.00 65 eP 46 24.00 -2.1

TAU 56.03 242 eP 46 33.00 0.1

MAW 56.26 182 eP 46 35.00 0.8

CNCB 56.49 68 P 46 36.00 -1.2

LPB 56.67 68 P 46 38.00 -0.3

2.0s 705.88nm 6.3mb X
 S 54 36.00
 LR 03 52.00
 ZOBO 56.87 68 iPd 46 39.10 -0.9
 1.9s 165.37nm 5.7mb
 S 54 40.00
 LR 03 20.00

CAN 60.92 249 eP 47 07.00 -0.2
 DZM 61.75 272 iPc 47 17.20 4.2X
 BWA 61.91 250 eP 47 09.00 -5.0X
 VAO 62.90 91 eP 47 20.30 -0.4
 COO 63.07 255 eP 47 21.00 -0.7
 ITA 64.66 93 eP 47 31.20 -1.3

RDJ 65.06 94 eP 47 31.60 -3.1X
 CMS 65.56 250 eP 47 36.00 -1.8
 ADE 66.41 242 eP 47 44.00 0.7
 PSO 67.77 49 eP 47 54.00 1.5
 RMD 67.98 255 eP 47 58.00 4.8X
 BAO 68.25 86 eP 47 54.00 -1.2

BOG 72.24 51 eP 48 20.00 0.3
 eS 57 46.00
 FUO 73.14 51 eP 48 22.50 -2.5
 UPA 73.95 44 eP 48 32.60 3.4X

Z 19s 13.75um 6.3Msz
 CTA 74.48 257 iPd- 48 33.40 1.1
 1.7s 192.31nm 5.9mb
 iS 58 08.00

ATB 76.14 75 Pd 48 39.50 -2.3
 QIS 77.66 252 eP 48 48.00 -2.2
 NWA0 77.86 228 eP 48 51.00 -0.2
 1.2s 3.00nm 4.3mb X
 COOL 77.97 232 eP 48 51.00 -0.9

1.2s 2.00nm 4.1mb X
 ASPA 78.04 245 iPc 48 51.10 -1.2
 Z 22s 13.66um 6.2Msz X
 eS 58 45.40
 LR 17 05.90

CEOS 78.70 54 eP 48 54.70 -1.3
 TOV 78.72 53 eP 49 06.00 9.9X
 KLB 78.81 229 eP 48 57.00 0.6
 1.5s 8.00nm 4.5mb

MUN 79.11 227 iPc 48 58.60 0.6
 1.4s 2.00nm 3.9mb X
 Z 20s 5.90um 5.9Msz
 N 20s 4.40um
 E 20s 2.90um

BAL 80.10 228 eP 49 04.00 0.6
 1.3s 2.00nm 3.9mb X
 CAR 80.64 55 iP 49 05.00 -1.5
 iS 59 11.00

LLAV 80.66 55 eP 49 11.00 4.4X
 WRA 80.91 248 P 49 07.00 -0.8
 1.7s 62.00nm 5.4mb
 WB5 80.95 248 eP 49 06.10 -1.9

PMG 82.73 264 eP 49 18.00 0.7
 2.3s 436.36nm 6.2mb
 HON 83.19 326 P 49 22.00 2.6
 Z 20s 18.09um 6.4Msz

GRM 86.72 154 eP 49 43.00 5.8X
 MBL 86.96 235 eP 49 38.00 -0.5
 BAR 88.84 4 eP 49 48.00 0.9
 GLA 89.31 6 eP 49 49.00 -0.3

PLM 89.51 4 eP 49 50.00 -0.4
 RVR 90.12 4 eP 49 55.00 2.0
 TPC 90.29 5 eP 49 52.00 -1.9
 MWC 90.33 3 eP 49 59.00 4.8X

SYN 90.59 2 eP 49 56.00 0.7
 SBB 90.80 3 eP 49 56.00 -0.2
 BCH 91.24 2 P 50 00.00 1.7
 GSC 91.45 4 eP 50 04.00 4.8X

PHAM 91.89 1 P 50 02.00 0.9
 CLC 91.93 4 eP 50 02.00 0.6
 ALQ 91.94 13 eP 49 59.00 -2.7
 1.3s 30.29nm 5.5mb

Z 20s 3.37um 5.8Msz
 PRI 92.19 1 ePc 50 03.50 0.9
 e 50 08.10
 PRS 92.37 0 ePc 50 04.00 0.7
 e 50 08.70

BFS 92.89 152 e(P) 50 11.00 4.6X
 MEO 92.98 19 eP 50 10.30 4.1X
 1.4s 35.20nm 5.6mb
 PRY 93.04 153 eP 50 03.00 -4.1X
 FRI 93.05 2 ePc 50 06.30 -0.1
 e 50 10.90

MHC 93.38 0 e(P) 50 09.00 0.9
 Z 20s 5.00um 6.0Msz

| | | | | | | | | | | | | | | | | | | | | |
|-----|--------|---------|--------|---------|-------|--------|------|--------|----------|-------|-------|-------|--------|----------|--------|----------|--------|--------|-------|-------|
| N | 20s | 6.00um | | | TCF | 144.63 | 82 | ePKP | 56 | 27.40 | -2.2 | SFI | 148.51 | 93 | PKP | 56 | 37.20 | 1.3 | | |
| E | 20s | 2.10um | | | LVI | 144.71 | 102 | PKP | 56 | 28.50 | -1.4 | CDF | 148.67 | 83 | PKP | 56 | 38.69 | 2.5 | | |
| | | e | 50 | 13.20 | LDF | 144.72 | 78 | ePKP | 56 | 26.50 | -3.1X | WLF | 148.74 | 80 | PKPc | 56 | 41.50 | 5.4X | | |
| | | eS | 01 | 25.00 | PYM | 144.74 | 84 | PKP | 56 | 28.15 | -1.7 | MBH | 148.76 | 139 | iPKPd | 56 | 42.00 | 5.2X | | |
| | | ePS | 02 | 32.00 | MAF | 144.79 | 83 | ePKP | 56 | 27.70 | -2.1 | ARV | 148.84 | 95 | PKP | 56 | 39.00 | 2.5X | | |
| | | eSS | 07 | 38.00 | FAI | 144.92 | 104 | PKP | 56 | 30.50 | 0.2 | RSM | 148.84 | 94 | PKP | 56 | 39.40 | 3.0X | | |
| | | e | 14 | 37.00 | AGO | 145.00 | 83 | PKP | 56 | 28.00 | -1.4 | VAM | 148.94 | 118 | ePKP | 56 | 41.00 | 4.9X | | |
| | | eLO | 16 | 00.00 | BGF | 145.14 | 82 | ePKP | 56 | 29.20 | -1.2 | NDI | 149.12 | 214 | ePKPd | 56 | 41.00 | 3.6X | | |
| | | eLR | 20 | 18.00 | LRG | 145.16 | 89 | ePKP | 56 | 29.60 | -0.9 | MEM | 149.16 | 78 | PKP | 56 | 41.30 | 4.6X | | |
| BPI | 93.90 | 153 | eP | 49 | 53.00 | -18.2X | MCT | 145.16 | 104 | PKP | 56 | 30.30 | -0.6 | GWf | 149.17 | 82 | PKP | 56 | 40.30 | 3.4X |
| | 0.8s | 29.85nm | | | LMR | 145.16 | 90 | ePKP | 56 | 29.70 | -0.8 | ENN | 149.19 | 78 | ePKP | 56 | 41.00 | 4.2X | | |
| BKS | 93.91 | 360 | ePd | 50 | 16.20 | 5.8X | PKI | 145.18 | 226 | PKP | 56 | 30.60 | -0.9 | | 2.0s | 375.00nm | | | | |
| Z | 20s | 5.00um | | 6.0Msz | PLDF | 145.22 | 84 | PKP | 56 | 29.36 | -1.3 | VLS | 149.26 | 110 | ePKP | 56 | 46.50 | 9.2X | | |
| N | 20s | 5.00um | | | GUN | 145.29 | 227 | PKP | 56 | 31.20 | -0.5 | PRNI | 149.33 | 138 | iPKPd | 56 | 43.30 | 5.6X | | |
| E | 20s | 2.00um | | | DMN | 145.33 | 225 | PKP | 56 | 31.40 | -0.3 | NPS | 149.51 | 120 | ePKP | 56 | 43.00 | 5.2X | | |
| | | iS | 01 | 23.00 | FRF | 145.38 | 90 | ePKP | 56 | 30.30 | -0.6 | CTI | 149.72 | 90 | PKP | 56 | 42.00 | 4.1X | | |
| | | iSS | 07 | 52.00 | KKN | 145.43 | 226 | PKP | 56 | 31.50 | -0.3 | WTS | 150.29 | 77 | ePKPc | 56 | 45.00 | 6.6X | | |
| | | eLO | 16 | 08.00 | AVF | 145.56 | 83 | ePKP | 56 | 30.40 | -0.7 | KAP | 150.49 | 122 | ePKP | 56 | 44.50 | 5.3X | | |
| | | eLR | 20 | 26.00 | CALN | 145.64 | 89 | PKP | 56 | 31.31 | -0.2 | FVI | 150.67 | 90 | PKP | 56 | 43.90 | 4.8X | | |
| CMB | 94.08 | 1 | ePc | 50 | 11.50 | 0.3 | USI | 145.69 | 102 | PKP | 56 | 31.50 | 0.0 | TRI | 150.69 | 92 | ePKP | 56 | 44.50 | 5.3X |
| | | e | 50 | 16.10 | SMF | 145.75 | 83 | ePKP | 56 | 31.10 | -0.3 | ATH | 150.71 | 114 | ePKP | 56 | 46.00 | 6.5X | | |
| | | ePP | 53 | 53.20 | SSF | 145.81 | 82 | ePKP | 56 | 31.20 | -0.3 | JVI | 150.88 | 138 | iPKPd | 56 | 46.70 | 6.8X | | |
| TNP | 94.21 | 4 | P | 50 | 11.00 | -1.0 | GKN | 145.87 | 225 | PKP | 56 | 32.20 | -0.2 | VOY | 150.96 | 92 | e(PKP) | 56 | 45.40 | 5.7X |
| | 1.4s | 33.33nm | | 5.5mb | MVIF | 145.88 | 89 | PKP | 56 | 31.89 | -0.1 | RBL | 151.02 | 91 | PKP | 56 | 44.90 | 5.1X | | |
| SIO | 94.35 | 21 | eP | 50 | 15.00 | 2.6 | MNO | 145.95 | 104 | PKP | 56 | 32.60 | 0.3 | CEY | 151.07 | 93 | ePKP | 56 | 46.00 | 6.2X |
| SLR | 94.38 | 153 | eP | 50 | 01.00 | -12.3X | AURF | 145.97 | 90 | PKP | 56 | 31.13 | -0.9 | LJU | 151.32 | 93 | e(PKP) | 56 | 45.00 | 4.8X |
| TUL | 94.61 | 21 | eP | 50 | 16.90 | 3.3X | CVF | 145.97 | 93 | PKP | 56 | 30.20 | -1.8 | VBY | 151.39 | 94 | ePKP | 56 | 46.20 | 5.9X |
| | 1.1s | 3.80nm | | 4.7mb | TOUF | 146.01 | 89 | PKP | 56 | 31.98 | -0.2 | KZN | 151.45 | 109 | ePKP | 56 | 46.50 | 5.9X | | |
| Z | 20s | 2.50um | | 5.7Msz | SBF | 146.02 | 90 | ePKP | 56 | 32.40 | 0.3 | NEO | 151.47 | 112 | ePKP | 56 | 47.20 | 6.6X | | |
| LNO | 94.61 | 21 | e(P) | 50 | 18.70 | 5.2X | LBF | 146.02 | 83 | ePKP | 56 | 31.60 | -0.3 | OHR | 151.51 | 107 | ePKP | 56 | 44.50 | 3.8X |
| KVN | 95.14 | 3 | P | 50 | 15.00 | -1.3 | AUTN | 146.10 | 90 | PKP | 56 | 32.12 | -0.3 | | 2.1s | 0.58nm | | | | |
| ORV | 95.59 | 0 | e(P) | 50 | 20.40 | 2.3 | LOR | 146.13 | 82 | ePKP | 56 | 32.00 | -0.1 | | i | | 56 | 53.10 | | |
| | | e | 50 | 24.70 | STV | 146.20 | 89 | PKP | 56 | 30.66 | -1.7 | GRF | 151.54 | 84 | ePKP | 56 | 46.70 | 6.3X | | |
| WDC | 96.62 | 360 | eP | 50 | 22.20 | -0.5 | PZZ | 146.24 | 89 | PKP | 56 | 32.81 | 0.3 | Z | 20s | 2.60um | | 6.0Msz | | |
| | | e | 50 | 26.80 | IMI | 146.30 | 90 | PKP | 56 | 31.48 | -1.0 | LIT | 151.67 | 110 | ePKP | 56 | 56.80 | 15.9X | | |
| | | ePP | 54 | 14.20 | RRL | 146.32 | 88 | PKP | 56 | 33.22 | 0.5 | ZAG | 151.98 | 94 | iPKP | 57 | 01.00 | 19.9X | | |
| GOL | 96.77 | 13 | P | 50 | 40.00 | 16.3X | BNJ | 146.34 | 87 | PKP | 56 | 32.30 | -0.4 | PTJ | 152.02 | 94 | ePKP | 56 | 57.90 | 16.6X |
| Z | 20s | 5.00um | | 6.0Msz | ATN | 146.53 | 105 | PKP | 56 | 35.00 | 2.0 | GRG | 152.25 | 109 | iPKP | 56 | 42.90 | 1.2X | | |
| GLD | 96.83 | 13 | P | 50 | 40.00 | 16.1X | ROB | 146.53 | 90 | PKP | 56 | 31.99 | -0.9 | MOX | 152.25 | 82 | ePKP | 56 | 48.00 | 6.6X |
| Z | 20s | 5.50um | | 6.0Msz | ESK | 146.61 | 66 | ePKP | 56 | 31.50 | -1.0 | | 1.4s | 36.00nm | | | | | | |
| KMZ | 105.40 | 147 | iPKP | 55 | 24.70 | 8.0X | | 1.0s | 80.00nm | | | KMR | 152.27 | 89 | ePKP | 56 | 39.00 | -2.5X | | |
| PTZ | 106.16 | 153 | iPKP | 55 | 28.00 | 9.9X | EKA | 146.64 | 66 | PKP | 56 | 34.00 | 1.4 | | i | | 56 | 59.30 | | |
| SES | 106.82 | 7 | ePKP | 55 | 37.00 | 18.7X | | 1.3s | 42.00nm | | | | iPP | | | 00 | 26.60 | | | |
| SIT | 113.62 | 352 | PKP | 55 | 50.00 | 19.1X | LPG | 146.66 | 87 | ePKP | 56 | 34.80 | 1.5 | PLG | 152.37 | 111 | ePKP | 56 | 50.00 | 8.1X |
| Z | 20s | 7.50um | | 6.3Msz | FIN | 146.67 | 90 | PKP | 56 | 33.02 | 0.0 | SKO | 152.46 | 106 | ePKP | 56 | 42.50 | 0.5X | | |
| SNG | 120.62 | 231 | ePKP | 55 | 14.30 | -31.2X | RSP | 146.73 | 88 | PKP | 56 | 33.84 | 0.6 | Z | 19s | 2.15um | | 6.0Msz | | |
| INK | 124.69 | 355 | ePKP | 55 | 56.00 | 4.3X | CKI | 146.84 | 90 | PKP | 56 | 36.60 | 3.3X | N | 20s | 2.14um | | | | |
| LOE | 129.12 | 238 | ePKP | 56 | 07.60 | 5.8X | LSD | 146.86 | 87 | PKP | 56 | 34.86 | 1.2 | E | 19s | 2.47um | | | | |
| CHG | 131.64 | 236 | ePKP | 56 | 08.50 | 1.9 | DAG | 146.94 | 24 | iPKPc | 56 | 33.00 | 0.5 | | i | | 56 | 49.50 | | |
| IFR | 131.80 | 91 | iPKP | 55 | 49.00 | -17.7X | | 1.7s | 373.08nm | | | | i | | | 00 | 28.80 | | | |
| GYA | 134.25 | 250 | PKP | 56 | 19.00 | 7.5X | MAO | 147.14 | 95 | PKP | 56 | 35.70 | 1.9 | KHC | 152.55 | 86 | PKP | 56 | 49.50 | 7.6X |
| N | 20s | 1.70um | | | RYD | 147.27 | 161 | ePKP | 56 | 38.00 | 3.4X | | e | | | 56 | 56.80 | | | |
| E | 20s | 1.50um | | | ORO | 147.42 | 88 | PKP | 56 | 42.30 | 8.0X | VAY | 152.60 | 108 | ePKP | 56 | 48.00 | 5.9X | | |
| TAF | 134.27 | 92 | ePKP | 56 | 06.00 | -5.2X | ORX | 147.43 | 88 | PKP | 56 | 34.15 | -0.2 | BHL | 152.75 | 136 | PKP | 56 | 49.00 | 6.3X |
| | | i | 56 | 18.00 | HLW | 147.48 | 133 | ePKP | 56 | 38.00 | 3.3X | IZM | 152.81 | 118 | ePKP | 56 | 49.00 | 6.4X | | |
| KMI | 135.17 | 245 | ePKP | 56 | 18.50 | 5.1X | GRI | 147.52 | 105 | PKP | 56 | 37.70 | 3.1X | QUE | 153.05 | 197 | ePKP | 56 | 49.00 | 5.6X |
| TOL | 136.98 | 85 | e(PKP) | 56 | 21.00 | 4.8X | PII | 147.64 | 93 | PKP | 56 | 39.10 | 4.6X | CLL | 153.34 | 82 | iPKP | 56 | 53.60 | 10.8X |
| | | ePPS | 12 | 40.00 | BOB | 147.71 | 90 | PKP | 56 | 38.80 | 4.1X | | 2.2s | 180.00nm | | | | | | |
| | | eSS | 16 | 10.00 | VITF | 147.84 | 82 | PKP | 56 | 36.65 | 2.0 | SOP | 153.41 | 91 | ePKP | 56 | 49.60 | 6.5X | | |
| | | eSSS | 21 | 20.00 | GTA | 147.86 | 256 | PKP | 56 | 37.20 | 2.0 | PRU | 153.53 | 85 | ePKP | 56 | 49.50 | 6.3X | | |
| HYB | 138.11 | 210 | ePKP | 56 | 24.00 | 5.1X | N | 22s | 2.70um | | | Z | 21s | 3.00um | | 6.1Msz | | | | |
| | | e | 56 | 40.50 | BDI | 147.90 | 92 | PKP | 56 | 38.60 | 3.5X | N | 21s | 2.40um | | | | | | |
| XAN | 138.97 | 259 | PKP | 56 | 21.10 | 1.0 | HAU | 147.92 | 83 | ePKP | 56 | 37.30 | 2.4 | E | 20s | 1.80um | | | | |
| BJI | 139.28 | 272 | PKP | 56 | 25.00 | 4.7X | RFI | 147.95 | 99 | PKP | 56 | 40.40 | 5.3X | | e | | 57 | 04.20 | | |
| Z | 32s | 3.10um | | 5.8MszX | MNS | 147.96 | 96 | PKP | 56 | 36.00 | 0.8 | VKA | 153.60 | 90 | e(PKP) | 57 | 04.50 | 21.1X | | |
| | | PP | 59 | 17.00 | MGR | 148.00 | 102 | PKP | 56 | 37.50 | 2.3 | | 4.0s | 597.00nm | | | | | | |
| | | SS | 17 | 19.00 | MGR | 148.00 | 102 | PKP | 56 | 30.40 | -4.8X | BRG | 153.65 | 83 | ePKP | 56 | 51.50 | 8.2X | | |
| TIY | 139.73 | 266 | ePKP | 56 | 17.30 | -4.0X | VAI | 148.01 | 88 | PKP | 56 | 31.30 | -3.7X | | 1.2s | 22.00nm | | | | |
| N | 20s | 3.50um | | | MME | 148.04 | 92 | PKP | 56 | 38.00 | 2.5 | | e | | | 56 | 56.70 | | | |
| E | 18s | 2.30um | | | BSF | 148.07 | 83 | PKP | 56 | 37.30 | 2.0 | ZST | 154.00 | 91 | ePKP | 56 | 51.00 | 7.1X | | |
| | | sPKP | 56 | 27.00 | TDS | 148.08 | 104 | PKP | 56 | 37.60 | 2.2 | RDO | 154.02 | 112 | ePKP | 56 | 51.20 | 7.1X | | |
| HHC | 142.40 | 269 | ePKP | 56 | 23.00 | -3.1X | FIR | 148.09 | 93 | ePKP | 56 | 39.00 | 3.8X | SRO | 154.45 | 93 | ePKP | 56 | 51.00 | 6.5X |
| Z | 16s | 1.70um | | 5.9MszX | AZI | 148.11 | 98 | PKP | 56 | 40.80 | 5.5X | | e | | | 57 | 10.00 | | | |
| N | 20s | 2.20um | | | AZI | 148.11 | 98 | PKP | 56 | 37.00 | 1.7 | BUD | 154.66 | 94 | ePKP | 56 | 50.00 | 5.3X | | |
| E | 19s | 2.00um | | | DOU | 148.12 | 78 | PKPd | 56 | 37.80 | 2.7 | KSP | 154.93 | 85 | ePKP | 56 | 51.00 | 6.0X | | |
| BTO | 143.09 | 267 | PKP | 56 | 24.50 | -2.7 | ec | | | 56 | 41.80 | | ed | | | 00 | 46.20 | | | |
| LZH | 143.26 | 256 | ePKP | 56 | 26.00 | -1.8 | SDI | 148.13 | 98 | PKP | 56 | 37.60 | 2.1 | BHD | 155.02 | 152 | ePKP | 56 | 38.00 | -7.7X |
| Z | 35s | 3.60um | | 5.9MszX | SNF | 148.17 | 78 | PKP | 56 | 39.80 | 4.6X | | i | | | 57 | 11.00 | | | |
| | | sPKP | 56 | 40.00 | | | | | 56 | 45.50 | | | iPP | | | 00 | 33.00 | | | |
| | | PP | 59 | | | | | | | | | | | | | | | | | |

16d 16h

SPC 156.28 92 ePKP 56 53.20 6.0X
 BBTk 156.56 124 ePKP 56 51.50 3.7X
 KRA 156.56 90 ePKP 56 47.70 0.4X
 KER 156.71 157 ePKP 57 04.00 15.8X
 MLR 157.24 105 ePKPd 56 55.00 6.5X
 WMO 157.40 249 PKP 56 51.50 2.9X

Z 22s 5.00um 6.3Msz
 SLY 157.51 152 ePKP 56 52.00 3.1X
 TLB 157.75 109 ePKP 56 56.00 7.1X
 VRI 157.90 105 ePKPc 56 56.00 6.9X
 CFR 158.21 108 ePKP 56 56.00 6.6X
 CLI 158.63 104 ePKP 56 52.00 2.1X
 MAIO 159.87 183 ePKP 56 53.00 1.3X
 TAB 160.06 152 e(PKP) 57 05.00 13.1X

S.D. = 1.4 on 141 of 270 obs.

? FEB 16, 1989 18h 41m 29.24 ± 1.20s
 38.122 N ± 11.6km 23.054 E ± 9.1km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 2.6 (ATH).

ATH 0.54 106 eP 41 40.30 0.1
 NEO 1.19 6 eP 41 52.20 0.7
 VLS 1.94 272 eP 42 02.70 0.1
 PLG 2.27 8 eP 42 06.50 -0.9
 S.D. = 1.2 on 4 of 4 obs.

& FEB 16, 1989 19h 17m 07.70s
 33.170 N 115.600 W
 DEPTH = 1.0km
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 3.4 (PAS).

GLA 0.66 100 eP 17 20.40 -0.5
 IKP 0.67 220 eP 17 20.70 -0.4
 TPC 1.01 338 ePc 17 26.20 -1.4
 BAR 1.03 242 ePd 17 26.10 -1.8
 PLM 1.07 280 eP 17 26.70 -2.2
 PEC 1.49 299 eP 17 35.50 -0.2
 NOP 2.99 351 eP 17 55.70 -1.5
 ABL 3.44 300 e(P) 18 12.50 8.7
 BCH 4.23 300 eP 18 17.50 2.7
 TNP 5.08 345 eP 18 25.00 -2.0
 KVN 6.21 342 eP 18 34.70 -8.2
 11 obs. associated

FEB 16, 1989 19h 27m 04.99 ± 0.63s
 37.682 N ± 5.9km 15.180 E ± 5.2km
 DEPTH = 10.0km (geophysicist)
 SICILY (398)

MNO 0.46 303 P 27 14.20 -0.2
 ATN 0.53 25 P 27 15.70 0.0
 MSU 0.60 30 P 27 16.70 -0.4
 MEU 0.61 199 P 27 17.30 -0.1
 SOI 0.79 60 P 27 20.60 0.2
 GIB 0.96 289 P 27 23.60 0.2
 FAI 1.26 252 P 27 28.50 0.0
 TDS 2.17 24 P 27 41.80 0.1
 S.D. = 0.2 on 8 of 8 obs.

FEB 16, 1989 19h 42m 45.97 ± 1.49s
 2.568 N ± 4.7km 126.635 E ± 7.5km
 DEPTH = 56.0 ± 13.8 km
 5.1mb (17 obs.) 4.5Msz (1 obs.)
 MOLUCCA PASSAGE (266)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 30C
 Centroid Location:
 Origin Time 19:42:50.1 0.5
 Lot 3.21N 0.07 Lon 126.95E 0.08
 Dep 36.9 5.0 Half-duration 2.2
 Moment Tensor; Scale 10**17 Nm
 Mrr = 1.69 0.14 Mtt = -0.43 0.13
 Mff = -1.27 0.23 Mrt = -0.68 0.27
 Mrf = -0.13 0.24 Mtf = -0.75 0.13

MNO 0.46 303 P 27 14.20 -0.2
 ATN 0.53 25 P 27 15.70 0.0
 MSU 0.60 30 P 27 16.70 -0.4
 MEU 0.61 199 P 27 17.30 -0.1
 SOI 0.79 60 P 27 20.60 0.2
 GIB 0.96 289 P 27 23.60 0.2
 FAI 1.26 252 P 27 28.50 0.0
 TDS 2.17 24 P 27 41.80 0.1
 S.D. = 0.2 on 8 of 8 obs.

FEB 16, 1989 19h 42m 45.97 ± 1.49s
 2.568 N ± 4.7km 126.635 E ± 7.5km
 DEPTH = 56.0 ± 13.8 km
 5.1mb (17 obs.) 4.5Msz (1 obs.)
 MOLUCCA PASSAGE (266)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 30C
 Centroid Location:
 Origin Time 19:42:50.1 0.5
 Lot 3.21N 0.07 Lon 126.95E 0.08
 Dep 36.9 5.0 Half-duration 2.2
 Moment Tensor; Scale 10**17 Nm
 Mrr = 1.69 0.14 Mtt = -0.43 0.13
 Mff = -1.27 0.23 Mrt = -0.68 0.27
 Mrf = -0.13 0.24 Mtf = -0.75 0.13

FEB 16, 1989 19h 42m 45.97 ± 1.49s
 2.568 N ± 4.7km 126.635 E ± 7.5km
 DEPTH = 56.0 ± 13.8 km
 5.1mb (17 obs.) 4.5Msz (1 obs.)
 MOLUCCA PASSAGE (266)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 30C
 Centroid Location:
 Origin Time 19:42:50.1 0.5
 Lot 3.21N 0.07 Lon 126.95E 0.08
 Dep 36.9 5.0 Half-duration 2.2
 Moment Tensor; Scale 10**17 Nm
 Mrr = 1.69 0.14 Mtt = -0.43 0.13
 Mff = -1.27 0.23 Mrt = -0.68 0.27
 Mrf = -0.13 0.24 Mtf = -0.75 0.13

FEB 16, 1989 19h 42m 45.97 ± 1.49s
 2.568 N ± 4.7km 126.635 E ± 7.5km
 DEPTH = 56.0 ± 13.8 km
 5.1mb (17 obs.) 4.5Msz (1 obs.)
 MOLUCCA PASSAGE (266)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 30C
 Centroid Location:
 Origin Time 19:42:50.1 0.5
 Lot 3.21N 0.07 Lon 126.95E 0.08
 Dep 36.9 5.0 Half-duration 2.2
 Moment Tensor; Scale 10**17 Nm
 Mrr = 1.69 0.14 Mtt = -0.43 0.13
 Mff = -1.27 0.23 Mrt = -0.68 0.27
 Mrf = -0.13 0.24 Mtf = -0.75 0.13

FEB 16, 1989 19h 42m 45.97 ± 1.49s
 2.568 N ± 4.7km 126.635 E ± 7.5km
 DEPTH = 56.0 ± 13.8 km
 5.1mb (17 obs.) 4.5Msz (1 obs.)
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 Mff = -1.27 0.23 Mrt = -0.68 0.27
 Mrf = -0.13 0.24 Mtf = -0.75 0.13

Principal Axes:
 T Val = 1.90 Plg = 73 Azm = 185
 N -0.13 15 35
 P -1.77 8 303
 Best Double Couple: Mo = 1.8 * 10**17
 NP1: Strike = 16 Dip = 39 Slip = 66
 NP2: 226 55 108

MNI 2.11 238 iPc 43 22.20 2.7
 DAV 4.61 347 eP 43 50.00
 AAI 6.41 166 eP 43 51.00 -3.8X
 PCI 7.62 243 eP 44 27.00 7.0X
 1.0s 17.00nm 4.8mb X

TSM 8.70 281 ePc 44 55.00 3.1X
 MKS 10.54 223 ePd 45 23.00 6.0X
 OCP 13.19 336 eP 46 12.00 19.6X
 BAG 14.99 337 eP 46 16.00 -0.2
 KHKI 15.45 225 ePd 46 28.50 6.5X
 MTN 15.95 164 eP 46 26.00 -2.3
 KNA 18.32 173 eP 46 56.70 -1.2
 GUMO 21.09 58 e(P) 47 43.00 15.0X
 QIZ 23.19 316 eP 47 46.00 -2.7

E 12s 1.30um
 KGM 23.30 269 eP 47 52.40 2.5
 QZH 23.56 341 eP 47 52.00 -0.2
 Z 28s 7.90um 5.0MszX
 N 26s 8.20um

WB5 23.57 162 iPc 47 51.70 -0.7
 WRA 23.62 162 Pc 47 50.20 -2.7
 PMG 23.66 120 eP 47 57.00 3.7X
 GZH 24.12 329 eP 47 57.50 -0.2
 MBL 24.50 195 iPd 48 02.20 0.7
 KSI 24.81 256 ePc 48 07.80 3.4X
 IPM 25.64 275 ePd 48 16.20 3.9X
 OIS 26.27 152 iPd 48 17.50 -0.5
 SNG 26.32 281 eP 48 13.20 -5.3X
 ASPA 27.02 165 iPc 48 23.90 -1.0
 NANU 27.23 203 eP 48 27.50 0.8
 PSI 27.68 271 ePd 48 29.00 -2.0
 NNT 28.43 292 eP 48 38.00 0.3
 LOE 28.55 303 eP 48 38.00 -0.8
 WARB 28.58 180 eP 48 31.50 -7.5X
 CTA 29.63 140 iPc 48 49.90 1.5
 1.1s 24.05nm 4.8mb

MEKA 30.05 195 iPc 48 52.10 0.0
 WHN 30.16 339 eP 48 53.00 0.0
 Z 30s 5.81um 5.0MszX
 NJ2 30.23 347 Pd 48 54.00 0.4
 Z 25s 2.90um 4.8MszX
 GYA 30.52 323 eP 48 58.00 1.6
 Z 22s 1.20um 4.5Msz

BDT 30.81 300 eP 48 58.90 0.0
 CHG 31.55 303 iPd 49 05.30 -0.1
 1.1s 22.15nm 4.9mb
 KMI 32.14 316 eP 49 10.50 -0.2
 Z 25s 3.60um 5.0MszX
 MRWA 33.21 197 eP 49 20.00 0.3
 FORR 33.26 178 eP 49 19.30 -0.8
 0.3s 36.00nm 5.7mb
 COOL 33.67 189 iPd 49 23.30 -0.5
 0.3s 3.00nm 4.7mb
 BAL 34.32 195 eP 49 29.00 -0.3
 0.8s 19.00nm 5.1mb
 KLB 35.00 193 iPd 49 35.50 0.3
 0.4s 10.00nm 5.1mb
 MAT 35.46 16 (P) 49 40.00 1.0

2.0s 188.24nm 5.7mb
 MUN 35.75 195 eP 49 42.00 0.5
 RMQ 35.94 145 eP 49 49.00 5.9X
 NWA0 36.41 193 eP 49 46.00 -1.0
 0.4s 6.00nm 4.9mb
 TIY 37.33 341 eP 49 53.80 -1.0
 N 31s 14.80um
 RKG 37.55 193 eP 50 02.30 5.7X
 CMS 38.47 153 eP 50 04.00 -0.4
 BJI 38.49 347 eP 50 02.50 -1.9
 Z 24s 2.30um 4.9MszX
 ADE 39.02 164 iPc 50 09.40 0.4
 1.0s 40.00nm 5.2mb
 SNY 39.18 356 eP 50 11.80 1.7
 Z 29s 2.30um 4.8MszX
 N 29s 2.00um
 sP 50 30.00
 LZH 39.45 330 P 50 12.50 -0.2
 1.5s 66.00nm 5.3mb
 Z 16s 3.80um 5.3MszX
 E 24s 2.40um

HHC 40.47 342 eP 50 21.00 0.1
 BTO 40.73 341 eP 50 23.00 -0.1
 N 30s 6.80um
 E 30s 5.90um
 COO 40.83 146 eP 50 24.00 0.1
 CN2 41.07 359 eP 50 30.00 4.4X
 Z 28s 1.70um 4.8MszX
 MDJ 41.95 3 Pc 50 33.30 0.4
 Z 30s 2.10um 4.8MszX
 esP 50 56.00
 S 56 52.00
 sS 57 17.00
 BWA 42.11 153 eP 50 35.70 1.3
 CAN 43.12 153 eP 50 43.10 0.5
 LSA 43.14 312 P 50 43.30 -0.1
 eS 57 03.50
 GTA 44.04 330 eP 50 49.30 -0.8
 N 27s 3.20um

GUN 46.34 307 P 51 08.30 -0.6
 PKI 46.57 306 P 51 09.80 -0.9
 KKN 46.76 307 P 51 11.40 -0.7
 DMN 46.83 306 P 51 11.70 -1.0
 GKN 47.37 306 P 51 15.80 -1.0
 KOD 49.40 281 eP 51 33.00 0.1
 HYB 49.43 291 iPd 51 32.10 -0.6
 1.2s 92.90nm 5.7mb
 GBA 49.83 286 P 51 34.40 -1.3
 WMO 53.62 326 eP 52 02.50 -1.4
 Z 26s 1.40um 4.9MszX
 NDI 53.68 304 eP 52 02.00 -2.5
 POO 54.03 291 eP 52 06.50 -0.8
 KSH 58.77 316 eP 52 41.00 0.1
 MSZ 59.70 147 P 52 46.20 -0.9
 QUE 62.69 303 eP 53 06.60 -1.2
 MAIO 70.14 308 eP 53 54.00 -0.9
 AVY 80.35 250 eP 54 54.80 1.3
 TTA 81.97 27 eP 55 02.60 1.6
 IMA 83.48 24 eP 55 10.50 1.7
 1.1s 18.70nm 5.0mb
 PMR 85.00 29 eP 55 17.20 0.9
 1.0s 25.00nm 5.3mb

NAI 89.89 269 iPc 55 43.50 2.2
 PRNI 90.13 300 e(P) 55 44.00 2.2
 MBH 90.26 300 e(P) 55 43.50 1.1
 INK 91.27 21 eP 55 47.00 0.8
 SOD 91.50 338 eP 55 51.00 3.7X
 KJF 91.59 334 eP 55 50.00 2.2
 SUF 92.54 333 eP 55 57.00 4.9X
 VRI 95.06 316 eP 56 06.00 1.8
 MLR 95.67 316 eP 56 07.00 -0.1
 e 59 10.00
 DAG 98.40 352 eP 56 18.00 -0.7
 PEL 145.52 154 iPKPc 02 21.60 1.5
 MDZ 146.53 156 ePKP 02 25.00 3.2X
 S.D. = 1.2 on 76 of 94 obs.

FEB 16, 1989 20h 26m 00.38 ± 0.52s
 2.724 N ± 6.8km 126.796 E ± 9.8km
 DEPTH = 33.0km (normal)
 4.8mb (5 obs.)

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 4.8mb (5 obs.)

16d 20h

| MOLUCCA PASSAGE (266) | | | | |
|-----------------------|-------|---------|----------|-------|
| MNI | 2.33 | 237 ePd | 26 39.60 | 2.4 |
| | | eS | 27 11.10 | |
| PCI | 7.84 | 243 eP | 27 55.00 | 0.0 |
| WRA | 23.71 | 162 Pc | 31 10.80 | 0.4 |
| | 0.4s | 5.50nm | | 4.4mb |
| QIS | 26.33 | 152 eP | 31 35.00 | -0.2 |
| ASPA | 27.13 | 166 iPd | 31 41.50 | -1.1 |
| | 0.6s | 9.00nm | | 4.6mb |
| WARB | 28.74 | 180 eP | 31 49.00 | -8.1X |
| MEKA | 30.24 | 195 iPd | 32 09.90 | -0.6 |
| FORR | 33.41 | 178 iPc | 32 37.10 | -1.0 |
| | 0.5s | 23.00nm | | 5.3mb |
| KLB | 35.19 | 193 eP | 32 53.00 | -0.5 |
| MUN | 35.95 | 195 eP | 33 00.00 | 0.1 |
| | 0.9s | 23.00nm | | 5.1mb |
| NWAO | 36.59 | 194 eP | 33 05.00 | -0.4 |
| TIY | 37.23 | 341 Pc | 33 11.40 | 0.6 |
| BJI | 38.37 | 347 (P) | 33 21.50 | 1.3 |
| LZH | 39.40 | 330 (P) | 33 29.50 | 0.4 |
| BWA | 42.18 | 153 eP | 33 53.20 | 1.4 |
| CAN | 43.19 | 153 eP | 34 01.00 | 1.0 |
| GUN | 46.37 | 307 P | 34 26.10 | 0.1 |
| PKI | 46.61 | 306 P | 34 27.60 | -0.3 |
| KKN | 46.80 | 306 P | 34 28.70 | -0.6 |
| DMN | 46.87 | 306 P | 34 29.40 | -0.4 |
| GKN | 47.41 | 306 P | 34 33.60 | -0.4 |
| GBA | 49.94 | 285 Pd | 34 51.40 | -2.1 |
| | 0.7s | 5.10nm | | 4.7mb |

S.D. = 1.0 on 21 of 22 obs.

& FEB 16, 1989 20h 59m 30.71s
48.427 N 122.221 W
DEPTH = 0.0km
WASHINGTON (29)
<SEA>. CL 2.3 (SEA). Felt in the
Mount Vernon area.

| | | | | |
|-----|------|---------|----------|------|
| CMW | 0.07 | 93 iPd | 59 32.55 | 0.5 |
| OHW | 0.23 | 244 eP | 59 35.18 | -0.2 |
| | | eS | 59 39.14 | |
| JCW | 0.30 | 140 iPd | 59 36.48 | -0.3 |
| | | eS | 59 41.62 | |
| MBW | 0.42 | 31 eP | 59 39.20 | 0.2 |
| RPW | 0.47 | 87 eP | 59 39.78 | -0.3 |
| MCW | 0.48 | 302 eP | 59 39.32 | -0.9 |
| BLH | 0.60 | 168 eP | 59 42.47 | -0.3 |
| BLN | 0.65 | 230 eP | 59 43.08 | -0.7 |
| HTW | 0.69 | 154 eP | 59 43.64 | -0.9 |
| GMW | 0.96 | 204 eP | 59 47.81 | -2.0 |
| HDW | 0.96 | 216 eP | 59 47.64 | -2.3 |
| RMW | 1.01 | 164 eP | 59 49.63 | -1.2 |
| STW | 1.01 | 255 eP | 59 48.50 | -2.2 |
| GSM | 1.26 | 167 eP | 59 53.74 | -1.3 |
| LON | 1.70 | 170 eP | 00 01.00 | -0.9 |

15 obs. associated

? FEB 16, 1989 21h 01m 38.07 ± 7.32s
5.799 S ± 52.7km 128.965 E ± 64.8km
DEPTH = 158.1 ± 31.6 km
4.3mb (2 obs.)

| BANDA SEA (280) | | | | |
|-----------------|-------|---------|----------|-------|
| TLE | 3.77 | 88 iPd | 02 36.20 | 0.0 |
| | | iS | 03 09.00 | |
| MTN | 7.32 | 163 eP | 03 23.00 | -0.5 |
| | | eS | 04 34.00 | |
| KNA | 9.89 | 181 eP | 03 57.80 | 0.2 |
| | | eS | 05 37.00 | |
| WB5 | 14.95 | 160 eP | 04 57.80 | -5.0X |
| | | e | 05 03.00 | |
| WRA | 15.00 | 160 P | 05 04.00 | 0.6 |
| | 0.2s | 0.70nm | | 3.7mb |
| ASPA | 18.39 | 166 eP | 05 43.40 | -0.4 |
| | 0.4s | 23.00nm | | 4.9mb |
| | | eS | 08 55.80 | |

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

& FEB 16, 1989 21h 12m 11.69s
48.427 N 122.226 W
DEPTH = 0.0km
WASHINGTON (29)
<SEA>. CL 2.8 (SEA). Felt at
Mount Vernon.

| | | | | |
|-----|------|--------|----------|-----|
| CMW | 0.07 | 93 iPd | 12 13.51 | 0.4 |
|-----|------|--------|----------|-----|

| | | | | |
|-----|------|---------|----------|------|
| OHW | 0.23 | 243 eP | 12 16.11 | -0.1 |
| | | eS | 12 20.09 | |
| JCW | 0.31 | 140 iPd | 12 17.48 | -0.3 |
| MBW | 0.42 | 31 iP | 12 20.23 | 0.2 |
| | | eS | 12 28.04 | |
| RPW | 0.47 | 87 iPd | 12 20.84 | -0.3 |
| MCW | 0.48 | 302 eP | 12 20.41 | -0.8 |
| BLH | 0.60 | 168 iPd | 12 23.46 | -0.3 |
| BLN | 0.65 | 230 eP | 12 23.75 | -1.0 |
| PGW | 0.66 | 203 eP | 12 24.38 | -0.4 |
| HTW | 0.70 | 154 iPd | 12 24.60 | -1.0 |
| SPW | 0.87 | 181 eP | 12 28.84 | -0.3 |
| GMW | 0.96 | 203 eP | 12 28.76 | -2.0 |
| HDW | 0.96 | 216 eP | 12 28.58 | -2.3 |
| STW | 1.00 | 255 eP | 12 29.39 | -2.2 |
| RMW | 1.01 | 164 eP | 12 30.44 | -1.3 |
| OSD | 1.16 | 239 ePd | 12 32.78 | -1.7 |
| MEW | 1.26 | 193 eP | 12 35.16 | -0.8 |
| GSM | 1.26 | 166 eP | 12 34.45 | -1.6 |
| SMW | 1.34 | 215 eP | 12 36.14 | -1.3 |
| GHW | 1.39 | 181 eP | 12 36.68 | -1.5 |
| LON | 1.70 | 170 eP | 12 41.30 | -1.6 |
| BMW | 2.07 | 200 eP | 12 47.50 | -0.7 |
| SHW | 2.24 | 180 eP | 12 50.30 | -0.4 |
| VGB | 3.08 | 161 eP | 13 02.80 | 0.3 |

24 obs. associated

FEB 16, 1989 21h 50m 37.89 ± 0.10s
45.313 N ± 2.6km 151.805 E ± 1.7km
DEPTH = 95.5km (60 depth phases)
5.6mb (81 obs.)

KURIL ISLANDS (221)
Felt (III) at Kurilsk.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 29C
Centroid Location:
Origin Time 21:50:31.2 0.7
Lat 45.14N 0.05 Lon 152.34E 0.07
Dep 71.6 2.8 Half-duration 2.1
Moment Tensor: Scale 10¹⁷ Nm
Mrr = 1.51 0.06 Mtt = -0.24 0.09
Mff = -1.27 0.08 Mrt = 0.13 0.07
Mrf = -0.35 0.08 Mtf = -1.20 0.10
Principal Axes:
T Vol = 1.61 Plg = 74 Azm = 45
N 0.46 16 212
P -2.08 4 303
Best Double Couple: Mo = 1.9 × 10¹⁷
NP1: Strike = 49 Dip = 44 Slip = 113
NP2: 198 51 69

| | | | | |
|-----|-------|-----------|----------|---------|
| NEM | 4.88 | 248 P | 51 44.00 | -6.2X |
| YSS | 6.54 | 288 P | 52 10.00 | -3.1X |
| MAT | 13.49 | 234 iPd | 53 41.30 | -5.2X |
| | | eS | 56 03.00 | |
| MDJ | 15.74 | 275 Pd | 54 11.00 | -4.1X |
| Z | 25s | 2.80um | | |
| | | eP | 54 24.00 | |
| | | S | 57 02.00 | |
| | | SS | 57 32.00 | |
| SMY | 16.36 | 55 P | 54 23.30 | 0.5 |
| | 1.6s | 1639.34nm | | 6.0mb |
| SHK | 18.15 | 240 eP | 54 43.00 | -2.0 |
| CN2 | 18.82 | 275 P | 54 50.00 | -2.6 |
| N | 13s | 1.20um | | |
| SNY | 20.70 | 270 iPd | 55 10.00 | -2.1 |
| Z | 24s | 2.90um | | 4.6MsZx |
| E | 24s | 2.20um | | |
| | | PP | 55 34.50 | |
| | | iS | 58 52.00 | |
| ADK | 21.73 | 61 ePc | 55 21.20 | -1.1 |
| | 1.3s | 111.00nm | | 5.0mb |
| DL2 | 23.20 | 265 eP | 55 33.50 | -3.2X |
| Z | 30s | 1.10um | | 4.1MsZx |
| | | S | 59 40.00 | |
| BJI | 26.57 | 271 eP | 56 07.50 | -1.0 |
| Z | 3.0s | 0.82nm | | 2.7mb X |
| | 26s | 2.00um | | 4.6MsZx |
| | | eS | 00 34.00 | |
| TIA | 27.62 | 263 eP | 56 17.50 | -0.6 |
| | | S | 00 54.00 | |
| SSE | 27.74 | 250 P | 56 18.70 | -0.4 |
| | 1.5s | 96.00nm | | 5.2mb |
| Z | 24s | 1.50um | | 4.5MsZx |
| | | e(S) | 00 52.00 | |
| NJ2 | 28.71 | 254 Pc | 56 31.60 | 3.7X |

| | | | | |
|-----|-------|----------|----------|---------|
| Z | 28s | 1.60um | | 4.5MsZx |
| | | S | 01 11.00 | |
| HHC | 29.51 | 276 iPd | 56 35.00 | -0.1 |
| Z | 14s | 1.70um | | 4.8MsZx |
| N | 14s | 1.10um | | |
| E | 15s | 1.00um | | |
| | | S | 01 12.00 | |
| TIY | 30.21 | 269 iPd | 56 41.40 | 0.2 |
| E | 13s | 0.60um | | |
| | | S | 01 35.00 | |
| | | sS | 02 00.00 | |
| BTO | 30.69 | 276 P | 56 46.00 | 0.5 |
| N | 15s | 1.10um | | |
| E | 15s | 1.10um | | |
| | | pP | 57 05.00 | 82kmX |
| WHN | 32.69 | 256 eP | 57 01.50 | -1.4 |
| Z | 28s | 1.56um | | 4.6MsZx |
| | | eS | 02 08.00 | |
| QZH | 33.58 | 244 eP | 57 10.50 | -0.2 |
| TTA | 34.10 | 40 P | 57 15.10 | 0.2 |
| | 1.1s | 203.13nm | | 5.9mb |
| SVW | 34.14 | 43 ePc | 57 16.00 | 0.8 |
| XAN | 34.50 | 266 P | 57 18.20 | -0.4 |
| | | S | 02 41.70 | |
| IMA | 35.51 | 35 ePc | 57 26.70 | -0.2 |
| | 0.7s | 108.60nm | | 5.9mb |
| BRW | 35.65 | 26 ePc | 57 28.00 | 0.1 |
| KDC | 35.78 | 49 ePc | 57 28.00 | -1.0 |
| LZH | 37.04 | 273 iPc | 57 40.50 | 0.4 |
| | 1.0s | 142.00nm | | 5.9mb |
| Z | 30s | 1.60um | | 4.6MsZx |
| | | pP | 57 50.50 | 34kmX |
| | | eS | 03 15.00 | |
| PMR | 37.27 | 43 P | 57 40.90 | -0.6 |
| | 1.0s | 90.00nm | | 5.7mb |
| FBA | 37.86 | 37 ePc | 57 47.10 | 0.6 |
| GTA | 38.31 | 280 iPc | 57 51.20 | 0.5 |
| | 2.0s | 0.60nm | | 3.2mb X |
| N | 13s | 0.90um | | |
| | | sP | 58 20.00 | |
| | | PcP | 00 03.60 | |
| | | S | 03 38.70 | |
| | | sS | 04 15.00 | |
| | | ScS | 07 53.70 | |
| TOA | 38.65 | 42 ePc | 57 54.20 | 1.0 |
| GYA | 40.52 | 258 P | 58 08.40 | -0.7 |
| | | S | 04 10.00 | |
| INK | 43.35 | 31 iPc | 58 32.10 | 0.6 |
| | 1.1s | 33.00nm | | 5.1mb |
| WMO | 44.61 | 292 iPc | 58 42.70 | 0.6 |
| Z | 25s | 0.80um | | 4.5MsZx |
| | | S | 05 15.00 | |
| SIT | 45.01 | 48 P | 58 46.20 | 1.2 |
| | 1.2s | 166.67nm | | 5.7mb |
| MBC | 46.26 | 19 eP | 58 54.00 | -0.6 |
| | 0.6s | 14.00nm | | 5.0mb |
| | | pP | 00 28.00 | 497kmX |
| LSA | 49.45 | 273 Pc | 59 21.30 | 0.7 |
| | | S | 06 23.50 | |
| LOE | 49.98 | 253 eP | 59 23.50 | -0.7 |
| CHG | 50.90 | 257 iPc | 59 31.50 | 0.3 |
| | 1.3s | 65.87nm | | 5.5mb |
| | | eS | 07 14.00 | |
| ALE | 51.26 | 5 ePc | 59 32.00 | -1.2 |
| | 0.8s | 16.00nm | | 5.1mb |
| | | pP | 00 46.00 | 357kmX |
| BDT | 51.94 | 255 eP | 59 37.20 | -1.8 |
| NST | 52.28 | 253 eP | 59 42.20 | 0.6 |
| YKA | 52.62 | 36 P | 59 44.10 | 0.5 |
| GUN | 54.22 | 275 Pc | 59 55.60 | -0.6 |
| KSH | 54.39 | 293 P | 59 57.60 | 0.5 |
| | | PcP | 00 59.00 | |
| PMG | 54.63 | 186 eP | 59 59.00 | 0.3 |
| KKN | 54.71 | 275 Pc | 59 59.20 | -0.5 |
| PKI | 54.76 | 275 Pc | 59 59.60 | -0.6 |
| NNT | 54.77 | 251 eP | 00 00.00 | 0.1 |
| DMN | 54.95 | 275 Pc | 00 01.60 | 0.2 |
| GKN | 55.04 | 276 Pc | 00 01.50 | -0.5 |
| MCW | 55.36 | 53 P | 00 03.80 | -0.1 |
| GMW | 55.98 | 55 P | 00 09.10 | 0.8 |
| | | pP | 00 32.60 | 95km |
| BMW | 56.30 | 56 P | 00 10.20 | -0.5 |
| PNT | 56.82 | 51 iPc | 00 14.10 | -0.2 |
| | 0.9s | 105.00nm | | 5.9mb |
| LON | 56.97 | 55 P | 00 15.30 | -0.1 |
| SHW | 57.03 | 56 P | 00 16.20 | 0.3 |
| EDM | 57.97 | 45 iPc | 00 21.50 | -0.8 |

16d 22h

| | | | | | | | | | | | | | | | | | | | | | |
|------|-------|----------|-------|-------|-------|-------|------|-------|--------|---------|----------|-------|--------|-------|----------|----------|-------|-------|-------|-------|--|
| DAG | 1.0s | 169.00nm | 6.0mb | BMTN | 65.66 | 61 | ePc | 01 | 14.00 | -0.1 | GOL | 70.73 | 53 | P | 01 | 45.70 | 0.0 | | | | |
| | 58.05 | 357 | iPc | 00 | 20.80 | -1.7 | MCA | 65.67 | 62 | ePc | 01 | 13.70 | -0.2 | REY | 70.78 | 357 | iP | 01 | 46.50 | 1.4 | |
| | 1.0s | 106.00nm | 5.8mb | | | | | | | | GLD | 70.78 | 53 | P | 01 | 46.00 | 0.1 | | | | |
| SNG | 58.21 | 245 | eP | 00 | 24.10 | -0.2 | QCS | 65.80 | 60 | iPc | 01 | 15.00 | 0.0 | | 1.3s | 100.57nm | 5.5mb | | | | |
| VGB | 58.25 | 56 | P | 00 | 24.80 | 0.4 | QUE | 65.84 | 289 | iPc | 01 | 14.20 | -1.1 | | | | | | | | |
| KEV | 58.39 | 340 | eP | 00 | 18.00 | -7.0X | | | | eS | 09 | 56.50 | | RMO | 71.51 | 183 | iPc | 02 | 11.10 | 98km | |
| DPW | 58.40 | 52 | P | 00 | 25.10 | -0.3 | BLT | 65.85 | 61 | eP | 01 | 15.30 | -0.1 | | | | e | 02 | 24.00 | 101km | |
| FHC | 58.98 | 62 | ePc | 00 | 30.50 | 1.0 | | | | eP | 01 | 39.80 | 97km | KOD | 71.79 | 266 | eP | 01 | 52.00 | -0.3 | |
| | | | iP | 00 | 55.30 | 100km | WRN | 65.87 | 60 | iPc | 01 | 15.50 | 0.1 | TEH | 72.05 | 303 | ePc | 01 | 54.00 | 0.6 | |
| NDI | 59.79 | 281 | iPc | 00 | 34.50 | -0.7 | PANV | 65.94 | 62 | iP | 01 | 15.90 | 0.0 | MBL | 72.28 | 211 | eP | 01 | 54.00 | -0.6 | |
| | 1.0s | 110.00nm | 5.9mb | | | | FMT | 65.98 | 62 | ePc | 01 | 16.10 | 0.0 | TAB | 73.36 | 307 | eP | 02 | 02.00 | 1.0 | |
| | | eS | 08 | 41.00 | | | CLC | 65.99 | 63 | eP | 01 | 16.00 | -0.1 | ALQ | 73.38 | 57 | eP | 02 | 01.00 | -0.3 | |
| IPM | 59.94 | 243 | ePd | 00 | 36.50 | 0.2 | | | | e | 01 | 40.00 | 94km | | 1.3s | 45.67nm | 5.2mb | | | | |
| LBFM | 59.96 | 60 | P | 00 | 37.00 | 0.5 | YMT5 | 66.02 | 61 | iP | 01 | 16.40 | 0.1 | | | | eP | 02 | 25.00 | 92km | |
| WDC | 60.01 | 61 | ePc | 00 | 36.70 | 0.2 | TPU | 66.07 | 60 | eP | 01 | 17.10 | 0.4 | MUD | 73.86 | 339 | iPc | 02 | 03.30 | -0.1 | |
| | | | iP | 01 | 01.30 | 99km | | | | eP | 01 | 41.60 | 97km | | 0.8s | 21.00nm | 5.0mb | | | | |
| SOD | 60.26 | 339 | iP | 00 | 36.50 | -1.3 | BGB | 66.07 | 61 | ePc | 01 | 16.90 | 0.2 | WARB | 74.76 | 203 | iPc | 02 | 02.20 | -6.7X | |
| TRO | 60.29 | 343 | iPd | 00 | 36.80 | -1.2 | | | | eP | 01 | 41.30 | 96km | | 0.7s | 65.00nm | 5.6mb | | | | |
| LTCM | 60.48 | 61 | P | 00 | 40.00 | 0.3 | YMT6 | 66.08 | 61 | iP | 01 | 16.60 | -0.1 | SCH | 75.01 | 22 | eP | 02 | 10.00 | -0.1 | |
| | | | pP | 01 | 04.30 | 97km | GLR | 66.10 | 61 | ePc | 01 | 16.60 | -0.3 | NANU | 75.19 | 214 | eP | 02 | 12.00 | 0.6 | |
| KGM | 60.52 | 239 | eP | 00 | 41.10 | 0.9 | | | | eP | 01 | 41.00 | 96km | COO | 75.53 | 180 | iPc | 02 | 16.20 | 3.0 | |
| MIN | 60.72 | 61 | ePc | 00 | 41.10 | -0.5 | HYB | 66.11 | 271 | iPc | 01 | 16.00 | -1.0 | | 1.0s | 86.00nm | 5.6mb | | | | |
| | | | iP | 01 | 05.40 | 97km | | | | 1.0s | 70.00nm | 5.5mb | KER | 75.53 | 304 | ePc | 02 | 13.00 | -0.6 | | |
| SES | 60.78 | 47 | ePc | 00 | 40.80 | -0.9 | NUR | 66.12 | 334 | iP | 01 | 14.90 | -1.5 | SLY | 75.57 | 306 | iPd | 02 | 14.50 | 0.9 | |
| | 1.3s | 175.00nm | 6.0mb | | | | | | 0.8s | 33.70nm | 5.3mb | | | | iPc | 02 | 27.00 | 85kmX | | | |
| | | pP | 00 | 55.00 | 51kmX | | Z | 21s | 1.30um | 5.1Msz | | | | | i | 02 | 37.00 | | | | |
| ORV | 61.26 | 62 | ePc | 00 | 44.60 | -0.4 | | | | LR | 32 | 50.00 | | IAS | 75.67 | 324 | eP | 02 | 15.00 | 1.0 | |
| | | | eP | 01 | 08.70 | 96km | YMT3 | 66.12 | 61 | iP | 01 | 16.40 | -0.5 | KRA | 76.22 | 330 | iPc | 02 | 17.00 | 0.0 | |
| BRK | 61.79 | 64 | ePc | 00 | 48.50 | -0.1 | GMR | 66.17 | 61 | eP | 01 | 16.50 | -0.8 | | 1.0s | 248.00nm | 6.0mb | | | | |
| | | | eP | 01 | 12.80 | 97km | | | | eP | 01 | 41.00 | 97km | | | | i | 02 | 30.10 | 45kmX | |
| BKS | 61.80 | 64 | iPc | 00 | 48.60 | -0.1 | LOP | 66.23 | 61 | eP | 01 | 17.70 | 0.0 | CLI | 76.30 | 324 | ePc | 02 | 18.00 | 0.4 | |
| | 1.1s | 87.00nm | 5.7mb | | | | | | | eP | 01 | 42.10 | 96km | ACO | 76.32 | 51 | ePd | 02 | 17.50 | -0.3 | |
| KJF | 62.35 | 336 | iP | 00 | 51.00 | -0.9 | LSM | 66.23 | 61 | iP | 01 | 17.70 | 0.0 | | 1.4s | 109.60nm | 5.5mb | | | | |
| | 0.9s | 47.30nm | 5.5mb | | | | SRG | 66.25 | 60 | iPc | 01 | 18.10 | 0.3 | | | | e | 02 | 42.20 | 94km | |
| FFC | 62.43 | 39 | iPc | 00 | 52.10 | -0.5 | CPX | 66.25 | 61 | ePc | 01 | 17.60 | -0.2 | EDU | 76.33 | 346 | ePc | 02 | 17.10 | -0.4 | |
| | 1.0s | 149.00nm | 5.9mb | | | | SDH | 66.25 | 61 | ePc | 01 | 18.00 | 0.2 | PPE | 76.43 | 324 | ePd | 02 | 18.50 | 0.2 | |
| GCC | 62.46 | 64 | ePc | 00 | 52.90 | -0.1 | AMR | 66.33 | 62 | ePc | 01 | 18.00 | -0.1 | ELO | 76.52 | 346 | ePc | 02 | 18.40 | -0.2 | |
| | | | eP | 01 | 17.20 | 97km | BW06 | 66.33 | 53 | P | 01 | 18.00 | -0.4 | | 0.9s | 120.00nm | 5.7mb | | | | |
| MHC | 62.50 | 64 | ePc | 00 | 53.30 | -0.2 | | | | pP | 01 | 42.00 | 94km | KVT | 76.58 | 316 | iP | 02 | 19.80 | 0.5 | |
| | | | eP | 01 | 17.70 | 97km | QSM | 66.36 | 62 | iPc | 01 | 18.20 | -0.1 | CMS | 76.63 | 185 | eP | 02 | 21.00 | 1.7 | |
| ARN | 62.56 | 64 | P | 00 | 53.60 | -0.2 | NPN | 66.47 | 60 | iPc | 01 | 19.50 | 0.2 | | | | e | 02 | 47.00 | 100km | |
| | | | pP | 01 | 18.00 | 97km | QIS | 66.49 | 192 | iPc | 01 | 18.20 | -0.9 | EBH | 76.70 | 346 | ePc | 02 | 19.50 | -0.1 | |
| PSI | 62.71 | 244 | ePc | 00 | 54.70 | -0.2 | | | | e | 01 | 44.00 | 102km | KSP | 76.77 | 333 | iPc | 02 | 20.10 | 0.0 | |
| | 0.7s | 19.40nm | 5.2mb | | | | JON | 66.53 | 61 | ePc | 01 | 19.70 | 0.2 | | 1.0s | 130.00nm | 5.7mb | | | | |
| LRM | 62.80 | 51 | ePc | 00 | 55.30 | -0.2 | SPRG | 66.55 | 61 | eP | 01 | 19.40 | -0.3 | SPC | 76.84 | 330 | iPc | 02 | 21.60 | 0.9 | |
| CMB | 62.87 | 62 | iPc | 00 | 55.90 | 0.1 | PRN | 66.56 | 60 | iP | 01 | 20.10 | 0.3 | ESY | 76.86 | 346 | ePc | 02 | 20.40 | -0.1 | |
| | | | iP | 01 | 20.20 | 97km | SBB | 66.57 | 64 | eP | 01 | 19.00 | -0.8 | | 1.0s | 85.00nm | 5.5mb | | | | |
| SAO | 62.97 | 64 | e(P) | 00 | 56.00 | -0.5 | | | | e | 01 | 43.00 | 94km | EAB | 76.90 | 347 | ePc | 02 | 20.70 | 0.1 | |
| PRS | 63.29 | 65 | ePc | 00 | 58.50 | 0.0 | DLM | 66.62 | 60 | ePc | 01 | 20.30 | 0.1 | | 1.0s | 138.00nm | 5.8mb | | | | |
| | | | iP | 01 | 22.90 | 97km | | | | eP | 01 | 44.80 | 96km | CFR | 77.03 | 323 | ePc | 02 | 22.00 | 0.5 | |
| LLA | 63.38 | 64 | ePc | 00 | 59.20 | 0.0 | NOP | 66.70 | 62 | ePc | 01 | 20.50 | -0.1 | EBL | 77.07 | 346 | ePc | 02 | 21.70 | 0.0 | |
| | | | eP | 01 | 23.60 | 97km | FRB | 66.70 | 18 | eP | 01 | 18.00 | -2.1 | EAU | 77.08 | 346 | ePc | 02 | 21.90 | 0.2 | |
| KVN | 63.66 | 60 | P | 01 | 01.00 | -0.2 | | | | 1.2s | 233.00nm | 6.0mb | | 0.9s | 112.00nm | 5.7mb | | | | | |
| PRI | 63.85 | 64 | ePc | 01 | 02.80 | 0.4 | MWC | 66.72 | 64 | eP | 01 | 20.00 | -0.9 | VR1 | 77.08 | 324 | ePc | 02 | 22.50 | 0.6 | |
| FRI | 63.93 | 63 | ePc | 01 | 02.70 | 0.0 | MA10 | 66.75 | 299 | iPc | 01 | 20.80 | -0.2 | STK | 77.39 | 189 | eP | 02 | 25.00 | 1.5 | |
| | | | eP | 01 | 26.80 | 95km | | | | eS | 10 | 11.00 | | | | | e | 02 | 51.00 | 100km | |
| SUF | 63.94 | 335 | eP | 01 | 01.00 | -1.4 | WB5 | 66.79 | 198 | iPc | 01 | 20.10 | -1.0 | CLL | 77.39 | 335 | iPc | 02 | 23.00 | -0.4 | |
| | 0.5s | 28.90nm | 5.5mb | | | | | | | e | 01 | 46.70 | 106kmX | | 1.3s | 260.00nm | 5.9mb | | | | |
| MNA | 64.01 | 61 | e(P) | 01 | 04.00 | 0.6 | GSC | 66.82 | 63 | eP | 01 | 21.00 | -0.4 | BRG | 77.48 | 334 | iPc | 02 | 24.00 | 0.0 | |
| PHAM | 64.21 | 64 | P | 01 | 04.70 | 0.1 | | | | e | 01 | 45.00 | 94km | | 1.2s | 5.00nm | 4.2mb | | | | |
| | | | pP | 01 | 30.00 | 101km | WRA | 66.86 | 198 | Pc | 01 | 19.70 | -1.8 | | | | i | 02 | 34.50 | 34kmX | |
| SVP | 64.67 | 61 | ePc | 01 | 08.00 | 0.1 | | | | 1.3s | 54.80nm | 5.3mb | PCO | 77.51 | 50 | eP | 02 | 23.50 | -0.9 | | |
| PPK | 64.79 | 62 | ePc | 01 | 08.60 | 0.1 | SHRG | 67.07 | 61 | eP | 01 | 23.40 | 0.3 | | 1.3s | 51.70nm | 5.2mb | | | | |
| TNP | 64.80 | 61 | P | 01 | 08.30 | -0.3 | RVR | 67.30 | 64 | eP | 01 | 23.00 | -1.3 | EKA | 77.51 | 346 | Pd | 02 | 24.50 | 0.4 | |
| | 1.0s | 84.25nm | 5.6mb | | | | PEC | 67.50 | 64 | P | 01 | 25.20 | -0.4 | | 1.0s | 63.50nm | 5.4mb | | | | |
| | | | pP | 01 | 33.00 | 98km | | | | pP | 01 | 49.60 | 96km | ESK | 77.54 | 346 | ePc | 02 | 25.00 | 0.8 | |
| BCH | 64.82 | 65 | P | 01 | 09.00 | 0.4 | RGS | 67.72 | 342 | eP | 01 | 26.50 | 0.0 | TLB | 77.56 | 323 | ePc | 02 | 25.00 | 0.6 | |
| | | | pP | 01 | 33.30 | 96km | PLM | 68.04 | 64 | eP | 01 | 19.00 | -10.2X | CJR1 | 77.63 | 326 | eP | 02 | 25.40 | 0.6 | |
| MZP | 64.94 | 61 | eP | 01 | 09.40 | -0.2 | TPC | 68.07 | 63 | eP | 01 | 28.00 | -1.2 | MLR | 77.71 | 324 | iPc | 02 | 26.00 | 0.5 | |
| MGM | 65.03 | 61 | iPc | 01 | 10.40 | 0.3 | | | | e | 01 | 52.00 | 94km | | | | e | 12 | 10.00 | | |
| | | | eP | 01 | 34.70 | 96km | DZM | 68.37 | 165 | iPc | 01 | 32.10 | 1.1 | ISR | 77.75 | 324 | ePc | 02 | 26.50 | 0.9 | |
| LCH | 65.07 | 62 | ePc | 01 | 10.20 | -0.1 | BAR | 68.60 | 65 | eP | 01 | 32.00 | -0.4 | WIT | 77.78 | 339 | ePc | 02 | 26.50 | 1.0 | |
| | | | eP | 01 | 34.60 | 96km | POD | 68.68 | 275 | iPd | 01 | 32.60 | -0.5 | | | | e | 02 | 44.00 | 64kmX | |
| HCR | 65.19 | 60 | iPc | 01 | 10.80 | -0.3 | UPP | 68.68 | 337 | iP | 01 | 31.20 | -1.2 | BHD | 77.88 | 305 | iP | 02 | 28.00 | 1.6 | |
| GMN | 65.27 | 61 | iPc | 01 | 11.40 | -0.3 | | | | 1.0s | 200.00nm | 5.9mb | | | | iS | 12 | 16.00 | | | |
| CTA | 65.28 | 186 | iPc | 01 | 11.00 | -0.4 | AKU | 69.06 | 356 | iP | 01 | 36.10 | 1.4 | MEQ | 78.03 | 52 | ePc | 02 | 26.60 | -0.7 | |
| | 1.3s | 80.77nm | 5.5mb | | | | | | 1.0s | 72.00nm | 5.5mb | | | 1.4s | 83.70nm | 5.4mb | | | | | |
| SYP | 65.30 | 65 | eP | 01 | 12.00 | 0.3 | NB2 | 69.29 | 341 | P | 01 | 33.90 | -2. | | | | | | | | |

| | | | | | | | | | | | | | |
|------|-------|----------|----------|---------|------|---------------|----------|----------|------|---------------|--------------|----------|-------|
| | 0.9s | 191.00nm | | 5.9mb | KHL | 81.89 318 iP | 02 48.30 | 0.4 | | | pP | 03 27.60 | 92km |
| | | e | 02 46.50 | 59kmX | VAL | 81.90 349 iP | 02 47.80 | 0.3 | PLDF | 84.86 338 P | 03 03.43 | 0.6 | |
| SRO | 78.69 | 330 iPc | 02 31.50 | 0.9 | FEL | 81.92 336 P | 02 47.89 | 0.0 | BNI | 84.87 336 P | 03 04.00 | 1.0 | |
| | 1.1s | 3.50nm | | 4.1mb X | BAL | 82.02 210 eP | 02 49.00 | 0.7 | MAF | 84.90 339 iPc | 03 03.90 | 0.9 | |
| TUL | 78.73 | 50 eP | 02 30.60 | -0.5 | | 0.7s | 20.00nm | | PII | 84.90 333 P | 03 02.00 | -1.0 | |
| | 1.2s | 47.30nm | | 5.2mb | TRI | 82.08 332 iPc | 02 47.90 | -0.7 | AGO | 84.91 339 P | 03 04.30 | 1.2 | |
| Z | 21s | 0.51um | | 4.8Msz | | e | 03 04.50 | 59kmX | TCF | 84.92 339 iPc | 03 03.70 | 0.6 | |
| | | LR | 29 00.00 | | EZN | 82.15 321 eP | 02 48.90 | -0.1 | RRL | 84.96 336 P | 03 04.56 | 1.0 | |
| LNO | 78.73 | 50 iPc | 02 30.60 | -0.4 | VITF | 82.16 338 P | 02 49.37 | 0.4 | CKI | 84.97 335 P | 03 01.50 | -1.8 | |
| ZST | 78.78 | 331 iPc | 02 31.90 | 0.8 | MOF | 82.18 337 P | 02 49.35 | 0.1 | STJ | 85.02 16 eP | 03 04.00 | 0.5 | |
| FORR | 78.81 | 201 eP | 02 32.40 | 1.1 | HAU | 82.26 337 iPc | 02 50.30 | 0.7 | TKL | 85.04 42 P | 03 04.00 | 0.1 | |
| RLO | 78.95 | 49 eP | 02 31.70 | -0.6 | | 1.2s | 73.70nm | | | pP | 03 28.50 | 92km | |
| VKA | 78.99 | 331 iPc | 02 32.70 | 0.4 | SRS | 82.28 323 eP | 02 49.30 | -0.5 | BRT | 85.05 327 P | 03 03.80 | 0.0 | |
| | 1.1s | 127.00nm | | 5.7mb | BSF | 82.30 337 P | 02 49.83 | 0.0 | PRIN | 85.06 34 P | 03 03.80 | 0.0 | |
| DRA | 79.06 | 325 eP | 02 37.00 | 4.3X | BBS | 82.43 336 P | 02 50.40 | -0.1 | NAV | 85.07 39 P | 03 03.90 | -0.1 | |
| KHC | 79.13 | 334 iPc | 02 33.90 | 0.8 | SKO | 82.45 325 iPc | 02 51.30 | 0.7 | RKG | 85.07 208 eP | 03 07.00 | 3.3X | |
| | 1.0s | 121.00nm | | 5.7mb | | 1.1s | 130.00nm | | LSF | 85.13 340 iPc | 03 04.50 | 0.4 | |
| | | e | 02 46.50 | 42kmX | CTI | 82.47 333 P | 02 50.00 | -0.8 | FIN | 85.19 335 P | 03 04.05 | -0.4 | |
| BBTK | 79.14 | 317 iPc | 02 34.50 | 1.1 | KNT | 82.53 324 eP | 02 51.10 | 0.0 | MFF | 85.19 341 iPc | 03 04.60 | 0.2 | |
| | | e | 02 44.00 | 30kmX | VAY | 82.54 324 iPc | 02 51.40 | 0.3 | | 0.8s | 30.60nm | | 5.3mb |
| VVO | 79.19 | 50 e(P) | 02 33.90 | 0.3 | | 1.3s | 0.24nm | | DOI | 85.20 335 P | 03 03.50 | -1.1 | |
| BZS | 79.33 | 327 eP | 02 35.00 | 0.9 | KLB | 82.56 209 iPc | 02 51.40 | 0.3 | ROB | 85.21 335 P | 03 04.25 | -0.4 | |
| GRF | 79.35 | 335 iPc | 02 35.00 | 0.8 | | 0.7s | 18.00nm | | PYM | 85.22 339 P | 03 05.13 | 0.4 | |
| | 1.1s | 355.00nm | | 6.1mb | PRK | 82.64 320 eP | 02 51.70 | 0.1 | KAP | 85.23 318 eP | 03 04.00 | -0.8 | |
| SOP | 79.41 | 331 iPc | 02 35.30 | 0.8 | BNH | 82.68 29 P | 02 52.30 | 0.5 | LCI | 85.23 326 P | 03 04.50 | -0.2 | |
| BWA | 79.42 | 183 iPc | 02 35.30 | 0.7 | LOMF | 82.73 337 P | 02 52.43 | 0.4 | PZZ | 85.25 335 P | 03 04.15 | -0.8 | |
| | | e | 03 00.80 | 97km | RYD | 82.73 298 eP | 02 53.00 | 0.6 | BLA | 85.32 39 P | 03 05.60 | 0.3 | |
| PVL | 79.82 | 323 iPc | 02 37.00 | 0.2 | MIM | 82.86 28 P | 02 52.80 | 0.2 | | 0.9s | 139.00nm | | 5.9mb |
| HRT | 79.83 | 319 eP | 02 38.00 | 1.0 | IZM | 82.88 319 eP | 02 52.80 | -0.2 | MNS | 85.38 331 P | 03 05.20 | -0.3 | |
| ENN | 79.84 | 339 iPc | 02 37.30 | 0.5 | GRG | 82.91 324 eP | 02 52.80 | -0.3 | DUI | 85.39 329 P | 03 05.70 | 0.1 | |
| | 1.0s | 202.00nm | | 5.9mb | PLG | 82.96 323 eP | 02 53.00 | -0.3 | STV | 85.42 335 P | 03 04.05 | -1.7 | |
| | | i | 02 56.50 | 71kmX | ELL | 82.96 317 iP | 02 53.20 | -0.3 | AZI | 85.47 330 P | 03 06.10 | 0.3 | |
| JMB | 79.89 | 322 iPc | 02 37.00 | -0.2 | ADI | 83.12 311 iPc | 02 55.70 | 1.4 | CVL | 85.54 38 P | 03 07.00 | 0.7 | |
| KMR | 79.89 | 333 iP+ | 02 38.00 | 0.9 | SAL | 83.21 334 P | 02 54.80 | 0.4 | | pP | 03 31.80 | 93km | |
| DMK | 79.90 | 321 eP | 02 37.50 | 0.2 | FLN | 83.23 342 iPc | 02 55.20 | 0.7 | IMI | 85.55 335 P | 03 06.41 | 0.0 | |
| ISK | 79.92 | 320 eP | 02 37.00 | -0.3 | | 1.2s | 154.70nm | | KRP | 85.58 161 P | 03 06.50 | 0.4 | |
| FVM | 79.95 | 45 P | 02 37.30 | -0.3 | LDF | 83.31 342 iPc | 02 55.60 | 0.7 | SDI | 85.58 330 P | 03 05.00 | -1.5 | |
| GBZT | 79.96 | 319 iPc | 02 37.20 | -0.4 | | 1.2s | 107.10nm | | AUTN | 85.61 335 P | 03 07.08 | 0.2 | |
| MEM | 79.96 | 339 iPc | 02 37.80 | 0.4 | MDI | 83.31 334 P | 02 53.50 | -1.4 | LBL | 85.64 338 P | 03 07.33 | 0.7 | |
| CTT | 80.14 | 320 eP | 02 38.00 | -0.6 | OHR | 83.44 325 iPd | 02 55.20 | -0.6 | TOUF | 85.65 335 P | 03 06.75 | -0.3 | |
| UCC | 80.20 | 340 P | 02 39.20 | 0.5 | | 1.0s | 0.15nm | | SBF | 85.73 335 iPc | 03 07.70 | 0.4 | |
| GAC | 80.21 | 31 ePc | 02 37.90 | -0.9 | MUN | 83.44 210 eP | 02 54.00 | -1.6 | AURF | 85.74 335 P | 03 07.53 | 0.2 | |
| CAN | 80.30 | 182 iPc | 02 40.90 | 1.6 | PWLA | 83.48 46 P | 02 55.60 | -0.4 | MVIF | 85.79 335 P | 03 07.88 | 0.2 | |
| | | e | 03 06.50 | 98km | | | pP | 03 20.70 | 95km | CBN | 85.81 37 iPd | 03 08.20 | 0.6 |
| BEO | 80.44 | 327 iP | 02 39.70 | -0.4 | VAI | 83.51 335 P | 02 56.10 | 0.1 | | 1.0s | 55.00nm | | 5.5mb |
| SNF | 80.49 | 340 iPc | 02 40.60 | 0.4 | LIT | 83.59 323 eP | 02 55.40 | -1.1 | MBH | 85.86 309 iPc | 03 09.00 | 1.0 | |
| DIM | 80.68 | 323 iPd | 02 43.00 | 1.6 | LOR | 83.59 339 iPc | 02 57.10 | 0.7 | RFI | 85.88 330 P | 03 09.10 | 1.2 | |
| ADE | 80.78 | 191 iPc | 02 43.70 | 1.9 | | 1.1s | 190.70nm | | RDP | 85.92 331 P | 03 08.50 | 0.3 | |
| WLF | 80.79 | 338 P | 02 42.30 | 0.5 | KSL | 83.62 316 eP | 02 56.00 | -0.7 | CALN | 85.99 335 P | 03 09.09 | 0.4 | |
| DOU | 80.79 | 339 P | 02 42.10 | 0.3 | GRR | 83.66 342 iPc | 02 57.50 | 0.8 | VLS | 86.00 324 eP | 03 08.00 | -0.6 | |
| | 1.2s | 255.60nm | | 5.9mb | | 1.1s | 151.40nm | | RJF | 86.02 339 eP | 03 09.00 | 0.4 | |
| COOL | 80.80 | 206 eP | 02 42.00 | 0.0 | KZN | 83.72 324 eP | 02 56.50 | -0.7 | | 0.9s | 58.90nm | | 5.6mb |
| | 1.0s | 42.00nm | | 5.2mb | EMM | 83.81 27 P | 02 56.80 | -0.7 | NPS | 86.20 319 eP | 03 08.80 | -0.8 | |
| PGB | 80.85 | 324 iPc | 02 43.00 | 0.6 | LBF | 83.83 338 iPc | 02 58.20 | 0.6 | CAF | 86.23 339 iPc | 03 10.50 | 0.8 | |
| KCT | 80.89 | 320 iP | 02 42.70 | 0.1 | SSF | 83.88 339 iPc | 02 58.70 | 0.9 | FRF | 86.24 335 iPc | 03 10.30 | 0.6 | |
| BNT | 81.00 | 320 iP | 02 43.20 | 0.1 | JVI | 83.94 310 iPc | 03 01.00 | 2.7 | | 1.2s | 136.80nm | | 5.9mb |
| KBA | 81.01 | 333 ePc | 02 43.00 | -0.3 | NEO | 83.94 322 eP | 02 57.70 | -0.6 | MGR | 86.32 328 P | 03 09.00 | -1.1 | |
| | 1.2s | 187.50nm | | 5.8mb | NWAO | 83.95 209 iPc | 02 59.30 | 1.1 | LRG | 86.42 336 iPc | 03 11.50 | 1.0 | |
| | | i | 03 05.80 | 86km | | 1.2s | 3.00nm | | | 1.1s | 167.90nm | | 6.0mb |
| GWF | 81.02 | 337 P | 02 43.39 | 0.3 | ORX | 83.96 335 P | 02 58.72 | 0.3 | TDS | 86.44 327 P | 03 10.70 | 0.0 | |
| EDC | 81.04 | 320 iP | 02 43.60 | 0.3 | ORO | 83.97 335 P | 02 58.40 | -0.1 | CVF | 86.47 334 P | 03 10.50 | -0.3 | |
| KDZ | 81.06 | 322 iPc | 02 24.00 | -19.4X | LPF | 84.04 342 iPc | 02 59.60 | 1.0 | LMR | 86.49 335 iPc | 03 11.80 | 0.9 | |
| ELC | 81.09 | 45 P | 02 43.60 | 0.0 | | 1.0s | 80.00nm | | LFF | 86.55 340 iPc | 03 11.60 | 0.5 | |
| | | pP | 03 08.80 | 96km | RSM | 84.09 332 P | 03 00.10 | 1.2 | | 1.0s | 64.00nm | | 5.6mb |
| PTJ | 81.16 | 331 iPc | 02 43.80 | -0.2 | AVF | 84.17 339 iPc | 03 00.20 | 0.9 | LPO | 86.68 339 iPc | 03 12.40 | 0.6 | |
| VTS | 81.22 | 324 iPc | 02 45.00 | 0.6 | SMF | 84.18 338 iPc | 03 00.30 | 0.9 | | 1.2s | 85.60nm | | 5.7mb |
| | | i | 03 03.00 | 65kmX | RSCP | 84.22 44 P | 02 59.80 | 0.0 | VAM | 86.74 320 eP | 03 11.70 | -0.5 | |
| RZN | 81.33 | 323 iPc | 02 45.00 | 0.0 | | 0.8s | 42.25nm | | PRM | 87.00 42 P | 03 11.70 | -1.8 | |
| OLY | 81.33 | 47 P | 02 44.40 | -0.5 | | | pP | 03 24.60 | 93km | KMSA | 87.24 296 eP | 03 15.00 | 0.1 |
| | | pP | 03 09.40 | 95km | ARV | 84.30 331 P | 03 00.50 | 0.5 | JSC | 87.36 41 P | 03 14.00 | -1.2 | |
| STR | 81.34 | 337 P | 02 45.37 | 0.7 | BOB | 84.30 334 P | 03 00.80 | 0.7 | LHS | 87.40 41 P | 03 15.20 | -0.2 | |
| PTN | 81.36 | 32 P | 02 44.00 | -0.9 | LSO | 84.36 336 P | 03 01.59 | 1.0 | SOI | 87.93 327 P | 03 17.50 | -0.4 | |
| RDO | 81.42 | 322 iPc | 02 45.70 | 0.5 | PGD | 84.38 332 P | 03 02.00 | 1.4 | TAU | 87.93 183 eP | 03 20.00 | 2.6 | |
| IKL | 81.48 | 314 iP | 02 45.50 | -0.1 | MME | 84.42 333 P | 03 02.30 | 1.4 | EPF | 88.44 339 iPc | 03 19.70 | -0.7 | |
| RBL | 81.50 | 332 P | 02 45.00 | -0.7 | LPG | 84.44 336 iPc | 03 02.40 | 1.3 | | 1.0s | 14.00nm | | 5.0mb |
| LJU | 81.53 | 331 ePc | 02 45.50 | -0.2 | CIO | 84.50 331 eP | 03 01.59 | 0.5 | MNO | 88.57 327 P | 03 20.50 | -0.8 | |
| RSNY | 81.55 | 32 P | 02 45.30 | -0.6 | BGF | 84.51 339 iPc | 03 02.10 | 1.1 | SGS | 88.60 42 P | 03 21.50 | 0.3 | |
| | 1.0s | 40.00nm | | 5.2mb | | 1.2s | 98.10nm | | | pP | 03 46.60 | 93km | |
| | | pP | 03 09.20 | 90km | CRE | 84.52 332 P | 03 01.00 | -0.2 | HBF | 88.88 42 P | 03 23.00 | 0.5 | |
| FVI | 81.62 | 333 P | 02 45.50 | -0.7 | BDI | 84.57 333 P | 03 00.90 | -0.6 | | pP | 03 47.60 | 91km | |
| CDF | 81.63 | 337 P | | | | | | | | | | | |

Principal Axes:
 T Val= 12.29 Plg= 5 Azm=326
 N -5.01 20 58
 P -7.27 70 221
 Best Double Couple: Mo=9.8*10**16
 NP1: Strike= 36 Dip=43 Slip=-119
 NP2: 253 53 -65

III 17.02 345 (P) 43 09.00 0.7
 IISM 17.21 352 (P) 43 11.50 1.0
 IIC 18.31 347 (P) 43 24.00 -0.5
 ZOBO 32.09 125 P 45 52.00 13.3X
 LR 56 26.00

LPB 32.25 125 P 45 40.00 0.1
 Z 18s 3.44um 5.1msz
 eLR 54 20.00

CNCB 32.49 126 eP 45 48.00 5.9X
 MEO 32.96 355 eP 45 43.70 -1.7
 0.8s 6.60nm 4.6mb

OLY 33.67 5 P 45 51.00 -0.6
 TUL 33.93 359 eP 45 54.00 0.3
 0.8s 3.70nm 4.4mb
 Z 21s 1.20um 4.6msz

ALQ 34.63 343 eP 45 59.40 -0.7
 2.0s 29.41nm 4.8mb
 Z 20s 2.84um 5.0mszX

RSCP 34.74 14 P 46 00.00 0.0
 1.0s 17.50nm 4.9mb

ELC 35.69 8 P 46 09.20 0.3
 FVM 36.24 6 P 46 13.60 0.2
 GOL 38.86 347 P 46 35.90 0.1

KVN 42.62 333 P 47 06.80 0.1
 BW06 42.80 344 P 47 07.80 -0.4
 CMB 42.89 330 e(P) 47 16.30 7.5X

ORV 44.62 331 e(P) 47 25.90 3.2X
 WDC 45.92 331 ePc 47 29.90 -3.1X
 LBFM 46.20 332 P 47 35.20 -0.3

SES 50.27 347 eP 48 07.00 0.2
 PNT 51.78 340 eP 48 18.00 -0.3
 0.7s 18.00nm 5.1mb X

FFC 53.04 355 eP 48 26.50 -1.1
 EDM 53.43 346 eP 48 32.00 1.4
 YKA 62.27 350 P 49 32.40 -0.2

FRB 64.78 13 eP 49 49.00 0.0
 INK 71.33 346 eP 50 31.00 1.2
 CHG 155.31 327 ePKP 59 17.00 13.0X

S.D. = 0.7 on 22 of 28 obs.

FEB 17, 1989 01h 14m 00.10±0.79s
 35.926 N ± 7.7km 21.584 E ± 5.0km
 DEPTH = 33.0km (normol)
 MEDITERRANEAN SEA (400)
 ML 4.1 (ATH).

VAM 2.19 103 ePn 14 35.50 0.6
 VLS 2.38 341 ePn 14 36.00 -1.7
 ATH 2.66 39 ePn 14 44.00 2.4

NPS 3.35 100 ePn 14 52.00 0.6
 NEO 3.62 21 ePn 14 56.50 1.3
 LIT 4.23 9 eP 15 05.30 1.4

PAIG 4.32 22 eP 15 05.10 -0.1
 KZN 4.38 2 ePn 15 07.00 1.0
 KAP 4.56 93 ePn 15 08.50 -0.1

PLG 4.68 18 ePn 15 10.00 -0.2
 THE 4.82 13 eP 15 12.00 -0.2
 SOI 4.92 297 P 15 13.70 0.1

eSn 16 05.80
 GRG 5.06 7 P 15 15.80 0.1
 SOH 5.08 15 eP 15 16.10 0.1

OHR 5.21 353 ePn 15 17.80 -0.1
 KNT 5.33 11 eP 15 19.70 0.3
 eS 16 18.90

ATN 5.38 296 P 15 21.00 0.8
 SRS 5.42 16 eP 15 20.10 -0.6
 VAY 5.44 8 ePn 15 21.00 0.0

MEU 5.49 284 P 15 22.10 0.4
 TDS 5.58 313 P 15 22.40 -0.6
 BRT 6.02 326 P 15 30.00 0.8

SKO 6.04 359 iPn 15 27.00 -2.5
 RDO 6.06 30 ePn 15 28.50 -1.3
 MGR 6.35 313 P 15 33.30 -0.5

KSL 6.49 86 ePn 15 33.00 -2.7
 BBTk 9.66 63 iPd 16 20.50 0.5
 S.D. = 1.2 on 27 of 27 obs.

FEB 17, 1989 01h 14m 27.81±0.54s
 0.455 N ± 2.9km 126.345 E ± 3.8km
 DEPTH = 38.9 ± 5.0 km

5.3mb (31 obs.) 5.1msz (8 obs.)
 MOLUCCA PASSAGE (266)
 CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
 L.P.B.: 13S, 24C
 Centroid Location:
 Origin Time 01:14:32.2 0.4

Lot 0.53N 0.07 Lon 126.21E 0.08
 Dep 15.0 FIX Half-duration 2.2
 Moment Tensor: Scale 10**17 Nm

Mrr= 1.83 0.12 Mtt= 0.82 0.11
 Mff=-2.66 0.17 Mrt=-0.51 0.26
 Mrf= 0.81 0.33 Mtf=-0.34 0.11

Principal Axes:
 T Val= 2.20 Plg=66 Azm=205
 N 0.61 22 0
 P -2.82 9 94

Best Double Couple: Mo=2.5*10**17
 NP1: Strike=209 Dip=41 Slip= 126
 NP2: 345 58 63

MNI 1.80 303 iPd 14 57.80 0.9
 eS 15 21.50
 AAI 4.51 156 ePd 15 37.10 1.6

eS 16 21.00
 DAV 6.63 353 eP 16 12.00 6.6X
 PCI 6.65 258 eP 16 07.00 1.4

eS 17 49.50
 TLE 8.80 134 ePc 16 21.00 -14.6X
 MKS 8.88 231 iPc 16 39.20 2.5

iS 18 18.40
 TSM 9.07 294 eP 16 44.00 4.6X
 KHKI 13.83 230 eP 17 48.80 5.2X

e 21 17.00
 MTN 14.04 160 eP 17 45.00 -1.4
 JAY 14.66 102 ePc 17 58.00 3.6X

QCP 15.02 340 eP 17 45.00 -14.2X
 TRT 15.89 239 ePc 18 14.50 4.1X
 0.6s 64.50nm 4.9mb

KNA 16.28 172 eP 18 15.00 -0.3
 0.8s 196.00nm 5.3mb
 BAG 16.84 341 eP 18 22.00 -0.7

1.0s 212.00nm 5.2mb
 WB5 21.68 159 iPc 19 15.80 -1.6
 eS 23 15.00

WRA 21.73 159 Pd 19 14.40 -3.5X
 0.5s 87.10nm 5.4mb
 MBL 22.41 196 eP 19 23.70 -0.8

0.5s 21.00nm 4.8mb
 GUMO 22.51 54 eP 19 24.80 -0.8
 0.9s 327.37nm 5.8mb

PJG 22.51 54 eP 19 25.00 -0.6
 GUA 22.52 54 eP 19 25.80 0.1
 0.9s 315.97nm 5.8mb

PMG 22.92 116 eP 19 31.50 1.9
 KGM 23.07 274 eP 19 32.50 1.4
 QIZ 24.55 320 eP 19 45.40 0.0

N 20s 2.40um
 QIS 24.59 149 iPc 19 45.20 -0.6
 0.2s 80.00nm 5.9mb

ASPA 25.08 163 iPc 19 49.90 -0.6
 0.7s 438.00nm 6.1mb
 iS 24 12.00

ePcS 27 03.60
 eScS 30 47.30
 NANU 25.19 204 iPd 19 51.30 -0.1

0.6s 52.00nm 5.3mb
 QZH 25.47 343 eP 19 54.50 0.4
 Z 24s 2.70um 4.7mszX

S 24 16.00
 IPM 25.62 280 ePd 19 55.00 -0.6
 0.8s 53.10nm 5.2mb

GZH 25.80 332 eP 19 56.30 -0.9
 Z 24s 3.70um 4.8mszX
 RAB 26.21 100 eP 20 12.00 10.9X

e(S) 24 32.00
 WARB 26.48 179 eP 19 55.50 -8.0X
 SNG 26.51 285 eP 20 03.80 0.0

eS 24 33.20
 e 27 07.80
 PSI 27.50 275 eP 20 13.00 0.1

1.0s 407.10nm 6.0mb
 MEKA 27.94 195 eP 20 16.00 -0.8
 CTA 28.24 137 iPc 20 19.00 -0.5

1.3s 61.54nm 5.1mb
 iScP 27 13.00
 NNT 29.01 296 eP 20 25.50 -1.0

NST 29.97 302 eP 20 35.00 -0.1
 MRWA 31.12 198 eP 20 44.00 -1.1
 FORR 31.18 177 iPc 20 44.10 -1.4

0.4s 87.00nm 5.9mb
 COOL 31.56 189 eP 20 48.00 -0.9
 0.5s 8.00nm 4.8mb

BDT 31.66 303 eP 20 48.20 -1.8
 WHN 32.02 340 eP 20 53.00 0.1
 Z 30s 2.49um 4.7mszX

S 26 00.00
 GYA 32.05 325 P 20 52.80 -0.7
 N 16s 0.81um

E 16s 1.18um
 KUMJ 32.19 7 eP 20 53.80 -0.6
 CHG 32.49 306 iPd 20 57.00 -0.3

1.0s 22.50nm 5.0mb
 eS 26 08.00
 KLB 32.89 194 eP 20 59.50 -1.1

0.7s 22.00nm 5.1mb
 KMI 33.49 319 Pd 21 07.50 1.4
 N 13s 0.90um

eS 26 24.00
 S 26 26.00
 S 26 40.00

MUN 33.65 196 eP 21 07.00 -0.2
 0.6s 15.00nm 5.1mb
 TKSJ 34.13 11 eP 21 10.80 -0.4

NWAO 34.30 194 eP 21 12.00 -0.7
 0.6s 20.00nm 5.2mb
 RMO 34.41 143 eP 21 19.00 5.2X

e 23 57.00
 VSG 34.60 107 eP 21 14.00 -1.6
 WKYJ 34.69 14 eP 21 16.20 0.1

YONJ 35.19 10 P 21 20.30 0.0
 STK 35.25 157 iPd 21 20.30 -0.6
 e 21 22.00

e 21 34.00
 RKG 35.44 193 eP 21 27.00 4.5X
 TIA 36.59 347 P 21 32.10 0.0

Z 28s 1.80um 4.7mszX
 eS 27 12.00
 CMS 36.75 152 eP 21 33.00 -0.5

ADE 37.09 163 e(P) 21 36.00 -0.4
 0.6s 113.33nm 5.9mb
 CD2 37.10 327 eP 21 35.30 -1.2

Z 25s 2.10um 4.8mszX
 S 27 17.00
 XAN 37.19 336 P 21 37.30 0.1

S 27 20.00
 CHJJ 37.31 17 P 21 36.80 -1.4
 MTMJ 37.49 15 P 21 39.00 -0.8

MAT 37.55 16 eP 21 39.00 -1.2
 1.8s 250.00nm 5.8mb
 Z 20s 1.42um 4.8msz

eS 27 12.00
 NIIJ 38.43 16 eP 21 49.00 1.5
 DL2 38.51 354 eP 21 43.90 -4.3X

TIY 39.23 342 iPd 21 53.50 -0.9
 Z 26s 3.80um 5.1mszX
 PP 23 32.50

S 27 55.00
 S 28 08.50
 YAMJ 39.59 17 eP 21 58.40 1.1

BWA 40.40 151 iPc 22 05.40 1.4
 eScP 27 57.30
 BJI 40.47 348 eP 22 04.50 0.0

Z 24s 1.40um 4.7mszX
 eSP 22 23.00
 eS 28 12.00

OFUJ 40.92 18 eP 22 08.00 0.6
 LZH 41.15 332 eP 22 11.00 0.7
 1.5s 132.00nm 5.4mb

Z 22s 2.40um 5.0msz
 N 16s 1.00um
 E 17s 0.80um

(S) 28 29.00
 SNY 41.26 357 eP 22 10.80 0.0
 Z 26s 2.20um 4.9mszX

N 28s 2.00um
 CAN 41.40 152 iPc 22 12.20 0.0
 eScP 28 00.20

HHC 42.39 343 eP 22 20.00 0.5

17d 01h

| | | | | | | | | | | | | | | | | | | | | |
|------|--------|---------|------|-------|-------|---------|--------|------------------------------------|---------|--------|-------|--------|--------|------|-------|--------|-------|-------|-------|------|
| N | 25s | 2.80um | | | | KUK | 126.41 | 278 | ePKP | 33 | 29.50 | 0.1 | RBN | 2.40 | 325 | ePn | 24 | 44.00 | 0.6 | |
| E | 25s | 3.10um | | | | SIO | 126.42 | 43 | ePKP | 33 | 28.90 | 0.1 | KNT | 2.49 | 5 | eP | 24 | 44.70 | -0.0 | |
| | | eS | 28 | 39.00 | | TUL | 126.68 | 43 | ePKP | 33 | 24.40 | -4.9X | SRS | 2.55 | 17 | eP | 24 | 45.30 | -0.2 | |
| BTO | 42.62 | 342 | eP | 22 | 24.00 | 1.8 | | 1.1s | 12.60nm | | | | TPE | 2.60 | 309 | iPnd | 24 | 46.50 | 0.3 | |
| N | 15s | 0.80um | | | | | Z | 20s | 0.90um | | | 5.4Msz | VAY | 2.64 | 359 | iPn | 24 | 46.70 | -0.1 | |
| E | 15s | 0.90um | | | | | | | | | | | OPR | 2.81 | 330 | iPnc | 24 | 48.00 | 8.7X | |
| | | sP | 22 | 34.50 | | | LNO | 126.68 | 43 | ePKP | 33 | 28.70 | -0.5 | | 1.5s | 0.37nm | | | | |
| CN2 | 43.16 | 359 | Pc | 22 | 26.00 | -0.4 | RLO | 127.06 | 42 | ePKP | 33 | 30.40 | 0.4 | | | i | 25 | 09.70 | | |
| Z | 22s | 1.90um | | | | 5.0Msz | FVM | 128.91 | 37 | PKP | 33 | 33.50 | 0.0 | | | eSn | 25 | 48.00 | | |
| | | eS | 28 | 52.00 | | | OLY | 129.79 | 41 | PKP | 33 | 35.80 | 0.6 | | | ePn | 24 | 51.20 | 0.8 | |
| MDJ | 44.07 | 3 | eP | 22 | 33.60 | -0.1 | ELC | 130.09 | 37 | PKP | 33 | 36.70 | 1.0 | PRK | 2.09 | 78 | ePn | 24 | 52.90 | 2.5 |
| Z | 20s | 1.30um | | | | 4.0Msz | KFC | 130.72 | 279 | PKP | 33 | 38.10 | 0.5 | BERA | 2.90 | 315 | ePn | 24 | 53.40 | 1.3 |
| | | eP | 22 | 39.00 | | 18kmX | TIC | 130.96 | 279 | PKP | 33 | 39.30 | 1.3 | VLO | 3.01 | 307 | iPn | 24 | 52.00 | -0.4 |
| LSA | 44.37 | 314 | P | 22 | 36.70 | -0.3 | LIC | 131.01 | 279 | PKP | 33 | 38.80 | 0.7 | WMB | 3.03 | 16 | iPd | 24 | 52.00 | |
| DZM | 45.04 | 122 | iPc | 22 | 42.00 | -0.1 | BWM | 132.49 | 17 | PKP | 33 | 43.60 | 3.5X | | | iS | 25 | 33.00 | | |
| GTA | 45.73 | 331 | eP | 22 | 44.00 | -2.5 | GBTN | 134.16 | 35 | PKP | 33 | 44.20 | 0.7 | EZN | 3.09 | 67 | ePn | 24 | 52.90 | -0.3 |
| | 10s | 1.20um | | | | | TKL | 134.41 | 35 | PKP | 33 | 45.00 | 1.0 | RDO | 3.33 | 41 | ePn | 24 | 55.50 | -1.0 |
| TAU | 47.11 | 159 | eP | 22 | 59.00 | 1.1 | BLA | 135.08 | 31 | PKP | 33 | 45.40 | 0.1 | RZN | 3.41 | 27 | iPd | 24 | 58.00 | 0.2 |
| KOD | 49.56 | 283 | eP | 23 | 17.00 | -0.8 | CVL | 135.43 | 28 | PKP | 33 | 46.80 | 0.9 | TIR | 3.41 | 322 | ePn | 25 | 01.70 | 4.0X |
| HYB | 49.93 | 292 | iPc | 23 | 19.00 | -1.3 | ZON | 145.98 | 157 | ePKP | 34 | 06.00 | 1.0 | PHP | 3.45 | 332 | ePn | 24 | 58.50 | 0.3 |
| | 1.0s | 80.00nm | | | | 5.7mb | UPA | 152.57 | 69 | ePKPc | 34 | 22.90 | 7.4X | VAM | 3.49 | 159 | ePn | 24 | 58.80 | -0.2 |
| GBA | 50.14 | 287 | P | 23 | 20.50 | -1.4 | | 1.0s | 80.00nm | | | | IZM | 3.64 | 93 | ePn | 25 | 01.70 | 0.6 | |
| NDI | 54.64 | 305 | eP | 23 | 53.00 | -2.4 | ARE | 156.29 | 133 | ePKP | 34 | 33.00 | 12.1X | KDZ | 3.66 | 35 | eP | 25 | 00.00 | -1.3 |
| WMO | 55.20 | 327 | iPc | 23 | 58.70 | -0.6 | CNCB | 158.48 | 140 | PKP | 34 | 25.00 | 1.1 | | | iS | 26 | 01.00 | | |
| | 24s | 2.10um | | | | 5.1MszX | LPB | 158.60 | 139 | PKP | 34 | 27.00 | 3.2X | LACI | 3.71 | 324 | ePn | 25 | 03.00 | 1.0 |
| | | S | 31 | 39.00 | | | | Z | 20s | 0.71um | | | KKS | 3.80 | 334 | ePn | 25 | 04.50 | 1.3 | |
| MSZ | 58.11 | 146 | P | 24 | 19.00 | -0.8 | ZOBO | 158.77 | 138 | PKP | 34 | 26.00 | 1.8 | VTS | 3.94 | 6 | iP | 25 | 06.00 | 0.7 |
| KSH | 60.08 | 317 | P | 24 | 33.90 | 0.2 | | Z | 22s | 0.45um | | | | | iSg | 26 | 13.00 | | | |
| QUE | 63.59 | 304 | eP | 24 | 55.80 | -1.8 | CCH | 159.17 | 145 | ePKP | 34 | 37.00 | 12.7X | PUK | 3.96 | 329 | ePn | 25 | 08.20 | 2.7 |
| MAIO | 71.20 | 308 | eP | 25 | 44.00 | -1.2 | BAO | 163.91 | 200 | ePKP | 34 | 30.00 | 1.1 | LCF | 3.98 | 296 | P | 25 | 03.70 | -2.1 |
| | 0.7s | 5.08nm | | | | 4.6mb | | S.D. = 1.0 | on 131 | of 153 | obs. | PGB | 4.04 | 16 | iPc | 25 | 06.00 | -0.7 | | |
| | | eS | 35 | 00.00 | | | | ? FEB 17, 1989 01h 18m 51.20±2.94s | | | | | SDA | 4.11 | 325 | ePn | 25 | 09.00 | 2.0 | |
| AVY | 79.38 | 251 | eP | 26 | 32.30 | 0.1 | | 46.132 N ±11.9km 1.410 E ±25.2km | | | | | NPS | 4.16 | 144 | ePn | 25 | 08.80 | 0.4 | |
| SDN | 80.10 | 34 | eP | 26 | 35.00 | -0.1 | | DEPTH = 10.0km (geophysicist) | | | | | BCI | 4.17 | 333 | ePn | 25 | 09.10 | 0.6 | |
| RYD | 80.48 | 295 | eP | 26 | 38.00 | 0.1 | FRANCE | | | | | | ULC | 4.18 | 323 | ePn | 25 | 09.50 | 0.8 | |
| MAW | 80.57 | 200 | eP | 26 | 38.00 | 0.6 | | ML 2.7 (LDG) | | | | | | | eSn | 25 | 57.50 | | | |
| KER | 80.86 | 305 | ePd | 26 | 45.50 | 5.7X | LSF | 0.14 | 35 | Pg | 18 | 55.00 | 0.4 | EDC | 4.38 | 66 | iP | 25 | 11.60 | 0.1 |
| TAB | 81.86 | 308 | eP | 26 | 46.00 | 1.0 | | | | Sg | 19 | 21.50 | | PVY | 4.41 | 334 | ePn | 25 | 12.60 | 0.6 |
| KMSA | 82.20 | 290 | eP | 26 | 46.70 | -0.2 | TCF | 0.58 | 74 | Pg | 19 | 03.50 | 0.6 | | | eSn | 26 | 04.50 | | |
| BHD | 83.02 | 303 | iP | 26 | 41.00 | -9.9X | | | | Sg | 19 | 34.20 | | BNT | 4.42 | 66 | iP | 25 | 11.50 | -0.6 |
| | | iSRs | 37 | 10.00 | | | MAF | 0.81 | 83 | Pg | 19 | 07.80 | 0.9 | TTG | 4.55 | 327 | ePn | 25 | 14.00 | 0.2 |
| | | iSKKS | 37 | 41.00 | | | | | | Sg | 19 | 42.20 | | | | eSn | 26 | 06.00 | | |
| TTA | 83.98 | 27 | eP | 26 | 55.90 | 0.6 | BGF | 1.08 | 66 | Pg | 19 | 09.80 | -1.8 | BDV | 4.63 | 322 | ePn | 25 | 15.00 | 0.0 |
| KDC | 84.89 | 32 | eP | 27 | 00.30 | 0.6 | | | | Sg | 19 | 46.00 | | | | eSn | 26 | 08.00 | | |
| BRW | 85.38 | 18 | eP | 27 | 03.10 | 1.1 | CAF | 1.29 | 159 | Pg | 19 | 15.00 | -0.1 | BRT | 4.73 | 299 | P | 25 | 15.80 | -0.6 |
| IMA | 85.51 | 24 | eP | 27 | 04.30 | 1.3 | | | | Sg | 19 | 57.20 | | DST | 4.75 | 77 | iP | 25 | 17.60 | 0.8 |
| | 0.7s | 25.70nm | | | | 5.5mb | | S.D. = 1.5 on 5 of 5 obs. | | | | | KAP | 4.78 | 129 | ePn | 25 | 19.00 | 1.8 | |
| PMR | 86.99 | 28 | eP | 27 | 09.60 | -0.4 | | * FEB 17, 1989 01h 28m 56.30±1.12s | | | | | JWS | 4.84 | 37 | iPc | 25 | 17.00 | -0.9 | |
| | 0.7s | 17.10nm | | | | 5.4mb | | 0.546 N ±18.4km 125.966 E ±14.6km | | | | | HCY | 4.91 | 321 | ePn | 25 | 18.00 | -1.0 | |
| FBA | 87.83 | 25 | eP | 27 | 14.00 | -0.1 | | DEPTH = 33.0km (normal) | | | | | | | eSn | 26 | 14.60 | | | |
| TOA | 88.42 | 28 | eP | 27 | 17.60 | 0.5 | | 4.4mb (2 obs.) | | | | | NKY | 4.97 | 327 | ePn | 25 | 18.80 | -1.1 | |
| NAI | 89.55 | 269 | iPd | 27 | 26.00 | 2.4 | | MOLUCCA PASSAGE (266) | | | | | PVL | 4.98 | 23 | iPd | 25 | 16.00 | -3.8X | |
| | 1.0s | 5.00nm | | | | 4.8mb | WNI | 1.44 | 308 | iPd | 29 | 20.10 | -0.2 | TDS | 4.99 | 283 | P | 25 | 20.90 | 0.8 |
| DSI | 90.59 | 301 | iP | 27 | 30.40 | 2.6 | | | | eS | 29 | 39.50 | | DMK | 5.02 | 50 | eP | 25 | 20.00 | -0.6 |
| PRNI | 90.94 | 300 | iPc | 27 | 30.00 | 0.5 | AAI | 4.76 | 152 | ePc | 29 | 48.40 | -19.2X | SOI | 5.21 | 265 | P | 25 | 21.50 | -1.6 |
| BBTK | 92.47 | 310 | eP | 27 | 20.00 | -16.4X | | | | eS | 29 | 50.50 | | YLV | 5.34 | 68 | iP | 25 | 26.60 | -1.3 |
| | | e | 27 | 30.00 | | | PCI | 6.30 | 257 | iP | 30 | 29.50 | 0.2 | ATN | 5.06 | 267 | P | 25 | 29.50 | 0.0 |
| KEV | 92.81 | 340 | eP | 27 | 36.00 | -1.2 | WBS | 21.91 | 158 | eP | 33 | 47.50 | -1.1 | WGR | 5.67 | 287 | P | 25 | 29.30 | -0.5 |
| SOD | 93.33 | 338 | eP | 27 | 40.00 | 0.3 | WRA | 21.95 | 159 | Pd | 33 | 45.80 | -3.2X | ELL | 6.08 | 106 | eP | 25 | 39.20 | 3.6X |
| INK | 93.33 | 22 | eP | 27 | 38.00 | -1.6 | | 0.6s | 6.00nm | | | | 4.2mb | KSL | 6.09 | 113 | ePn | 25 | 39.50 | 3.9X |
| KJF | 93.36 | 334 | eP | 27 | 40.00 | 0.2 | QIS | 24.86 | 148 | eP | 34 | 18.00 | 0.5 | SSR | 6.22 | 334 | ePc | 25 | 40.00 | 2.6 |
| SIT | 94.16 | 33 | P | 27 | 44.20 | 0.6 | ASPA | 25.27 | 163 | iPc | 34 | 21.60 | 0.2 | MNO | 6.29 | 266 | P | 25 | 37.90 | -0.7 |
| | 0.9s | 20.83nm | | | | 5.6mb | | 0.5s | 7.00nm | | | | 4.5mb | MEU | 6.29 | 258 | P | 25 | 35.90 | -2.6 |
| SUF | 94.28 | 333 | iP | 27 | 44.60 | 0.5 | BRS | 37.89 | 139 | iPc | 36 | 12.60 | 0.3 | | | eSn | 26 | 41.60 | | |
| | 0.4s | 2.50nm | | | | 5.0mb | HYB | 49.54 | 293 | eP | 37 | 42.00 | -4.5X | BEO | 6.35 | 346 | e(Pn) | 25 | 40.50 | 1.3 |
| MBC | 95.21 | 13 | eP | 27 | 48.00 | -0.2 | | S.D. = 0.8 on 6 of 9 obs. | | | | | HVAR | 6.49 | 316 | iPn | 25 | 40.90 | -0.3 | |
| VRI | 96.38 | 316 | eP | 27 | 55.00 | 0.9 | | FEB 17, 1989 02h 24m 05.72±0.41s | | | | | DUI | 6.93 | 298 | P | 25 | 46.60 | -0.9 | |
| MLR | 96.97 | 316 | eP | 27 | 57.00 | 0.0 | | 38.676 N ±3.9km 22.634 E ±2.9km | | | | | BZS | 6.98 | 334 | ePc | 25 | 47.50 | -0.5 | |
| | | iP | 30 | 30.00 | | | | DEPTH = 41.4 ± 7.6 km | | | | | ISR | 7.08 | 23 | ePd | 25 | 54.00 | 4.5X | |
| DAG | 100.44 | 352 | iPd | 28 | 10.70 | -1.1 | | 4.3mb (6 obs.) | | | | | TLB | 7.16 | 33 | eP | 25 | 51.00 | 0.5 | |
| | 0.9s | 11.76nm | | | | 5.4mb | GREECE | | | | | | | MLR | 7.24 | 19 | ePc | 25 | 52.00 | 0.2 |
| HFS | 100.71 | 332 | ePd | 28 | 13.40 | 0.1 | | (364) | | | | | SDI | 7.40 | 297 | P | 25 | 53.20 | -0.8 | |
| | 0.5s | 1.20nm | | | | 4.7mb | | WD 4.1 (ATH) | | | | | AZI | 7.77 | 298 | P | 25 | 58.00 | -1.0 | |
| YKA | 102.62 | 25 | Pd | 28 | 23.10 | 1.4 | NEO | 0.78 | 36 | iPnc | 24 | 19.20 | -1.2 | VRI | 7.80 | 22 | ePd | 26 | 00.00 | 0.5 |
| EDM | 107.28 | 33 | ePKP | 32 | 51.00 | -0.7 | ATN | 1.10 | 129 | ePn | 24 | 25.50 | 0.6 | BBTK | 7.94 | 78 | eP | 26 | 00.00 | -1.7 |
| FFC | 112.29 | 28 | ePKP | 33 | 00.50 | -0.5 | LIT | 1.43 | 356 | eP | 24 | 29.00 | 0.1 | CLI | 8.58 | 22 | eP | 26 | 15.00 | 4.7X |
| | 0.8s | 12.00nm | | | | | VLS | 1.68 | 253 | ePn | 24 | 35.00 | 1.9 | FTJ | 8.75 | 328 | e(P) | 26 | 10.40 | -2.3 |
| BW06 | 114.04 | 42 | PKP | 33 | 05.80 | 0.6 | KZN | 1.76 | 338 | ePn | 24 | 35.00 | 0.7 | VBY | 8.75 | 324 | ePn | 26 | 10.10 | -2.5 |
| FRB | 115.01 | 7 | ePKP | 33 | 05.00 | -1.0 | PLG | 1.81 | 20 | ePn | 24 | 34.50 | -0.5 | | | eSn | 27 | 44.20 | | |
| GOL | 118.23 | 43 | PKP | 33 | 12.60 | -0.7 | THE | 1.97 | 7 | eP | 24 | 36.60 | -0.6 | ARV | 8.76 | 306 | P | 26 | 12.50 | -0.3 |
| ALQ | 119.48 | 49 | ePKP | 33 | 16.00 | 0.3 | | | | eS | 25 | 08.10 | | CEY | 9.32 | 322 | e(Pn) | 26 | 21.50 | 1.0 |
| | 20s | 0.71um | | | | 5.3Msz | | | | | | | | | e(Sn) | 28 | | | | |

KBA 10.81 324 eP 26 43.50 2.5
1.1s 10.50nm 4.9mb
e 27 04.50
i 27 11.70
KHC 12.31 331 eP 27 00.00 -1.1
PRNI 13.14 126 iPd 27 30.00 17.8X
MBH 13.46 128 iPd 27 30.00 13.6X
LPG 13.61 305 eP 27 35.00 16.4X
0.8s 8.00nm
LBF 15.98 307 eP 27 54.50 5.4X
1.0s 8.00nm 3.8mb
SSF 16.31 307 eP 27 57.70 4.5X
TOL 20.67 282 eP 28 45.00 0.5
NUR 21.89 3 eP 29 01.00 4.4X
SLL 22.60 348 eP 29 01.80 -1.8
0.4s 2.10nm 3.9mb
NB2 23.50 346 P 29 10.80 -1.6
0.7s 3.70nm 4.0mb
EKA 24.02 322 Pc 29 18.40 1.0
0.9s 15.40nm 4.5mb
SUF 24.17 4 iP 29 19.00 0.2
KJF 25.74 5 eP 29 36.00 2.3
BNG 34.28 187 ePc 30 51.10 0.9
0.5s 5.00nm 4.7mb
INK 71.85 351 eP 35 25.50 -0.1
YKA 73.48 341 P 35 36.40 1.1

S.D. = 1.2 on 81 of 94 obs.

FEB 17, 1989 02h 33m 19.92±0.68s
38.741 N ± 5.8km 22.711 E ± 6.7km
DEPTH = 10.0km (geophysicist)

GREECE (364)
ML 3.0 (ATH).

NEO 0.69 35 ePn 33 34.00 0.4
ATH 1.10 134 ePn 33 41.00 0.4
LIT 1.37 353 eP 33 44.70 -0.3
PAIG 1.40 32 eP 33 45.20 -0.3
KZN 1.72 335 ePn 33 50.20 0.0
PLG 1.73 19 ePn 33 49.70 -0.5
VLS 1.76 252 ePn 33 50.00 -0.6
SOH 2.14 13 eP 33 56.20 0.1
eS 34 13.90
GRG 2.23 354 eP 33 57.20 -0.2
eS 34 17.90
KNT 2.42 3 eP 33 59.50 -0.7
SRS 2.47 16 eP 34 00.00 -0.8
VAY 2.58 358 ePn 34 03.70 1.3
OHR 2.79 329 ePn 34 06.70 1.3
SKO 3.37 344 ePn 34 22.00 8.4X

S.D. = 0.8 on 13 of 14 obs.

* FEB 17, 1989 02h 40m 46.21±2.53s
35.735 N ±19.9km 22.292 E ±19.6km
DEPTH = 10.0km (geophysicist)

MEDITERRANEAN SEA (400)
MD 3.8 (ATH).

VAM 1.59 101 ePb 41 15.50 1.1
NPS 2.75 99 ePb 41 37.50 6.3X
VLS 2.79 331 ePn 41 31.20 -0.6
NEO 3.64 11 ePn 41 45.50 1.7
KAP 3.98 91 ePn 41 49.00 0.4
PAIG 4.33 14 eP 41 53.90 0.4
KZN 4.58 355 ePn 41 57.00 -0.2
PLG 4.72 11 ePn 41 59.50 0.3
OUR 4.78 16 eP 42 17.90 17.9X
SOH 5.15 9 eP 42 04.90 -0.3
GRG 5.21 1 eP 42 04.90 -1.2
KNT 5.44 5 eP 42 08.70 -0.6
SRS 5.47 10 eP 42 08.90 -0.8
KSL 5.93 84 ePn 42 14.30 -1.8
SKO 6.26 354 ePn 42 22.50 1.6

S.D. = 1.2 on 13 of 15 obs.

* FEB 17, 1989 03h 28m 55.65±2.35s
38.092 N ±22.8km 21.754 E ±13.2km
DEPTH = 33.0km (normol)

GREECE (364)
MD 2.9 (ATH).

VLS 0.92 276 ePn 29 12.20 -0.1
NEO 1.67 43 ePn 29 23.50 0.5
KZN 2.21 0 ePn 29 30.10 -0.7
PLG 2.63 29 ePn 29 36.00 -0.7
OHR 3.10 347 ePn 29 44.00 0.5
VAY 3.29 11 ePn 29 46.50 0.5

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

FEB 17, 1989 04h 01m 06.90±0.17s
49.868 N ± 4.3km 78.079 E ± 3.0km
DEPTH = 0.0km (geophysicist)
5.0mb (55 obs.)
EASTERN KAZAKH SSR (329)

WMO 8.94 129 iPd 03 19.20 -1.1
GTA 18.60 116 Pc 05 27.20 -0.4
MAIO 19.12 232 eP 05 33.00 -0.9
eS 09 26.00
NDI 21.17 182 iPd 05 55.00 -1.0
LZH 23.20 117 eP 06 17.50 1.1
BTO 24.17 100 P 06 28.00 2.4
HHC 25.02 98 P 06 35.40 1.5
CD2 27.01 125 P 06 53.10 0.7
TIY 27.37 103 Pd 06 55.40 -0.2
KJF 29.98 318 eP 07 17.00 -1.8
0.5s 23.90nm 5.3mb
SUF 30.63 315 iP 07 23.90 -0.6
0.4s 15.50nm 5.3mb
SOD 30.79 324 iP 07 25.40 -0.5
KEV 31.10 328 eP 07 27.00 -1.6
NUR 31.43 310 iP 07 30.50 -1.1
GYA 32.09 126 P 07 37.60 -0.3
WHN 33.32 112 iPd 07 48.50 0.1
MLR 34.79 283 ePd 08 02.50 1.4
CHG 35.20 144 iPc 08 05.20 0.4
0.6s 6.67nm 4.6mb
GBA 36.17 181 Pc 08 11.10 -1.8
0.7s 6.40nm 4.5mb
KRA 36.58 293 eP 08 16.60 0.5
0.3s 56.00nm 5.8mb
HFS 36.86 311 eP 08 17.70 -0.7
0.6s 24.80nm 5.1mb
NRA0 37.76 313 P 08 24.90 -0.9
NB2 37.84 313 P 08 25.70 -0.9
0.5s 13.80nm 4.9mb
KSP 38.41 296 iPd 08 32.60 1.1
ZST 39.04 292 eP 08 37.60 0.8
KOD 39.52 181 eP 08 41.50 0.1
BRG 39.76 297 iP 08 42.80 0.1
0.8s 14.00nm 4.6mb
PRU 39.79 295 eP 08 43.50 0.6
CLL 40.12 298 iPc 08 45.90 0.2
0.6s 31.00nm 5.1mb
KHC 40.72 295 iPd 08 52.40 1.7
0.9s 8.50nm 4.4mb
MOX 41.20 298 iPc 08 55.50 1.0
1.0s 39.00nm 5.1mb
KBA 41.81 292 i(P) 09 01.00 1.2
0.7s 8.10nm 4.6mb
id 09 03.20
GRF 41.85 296 eP 09 01.30 1.4
1.0s 25.00nm 4.9mb
FVI 42.39 292 P 09 02.00 -2.3
WTS 43.31 301 iP 09 13.00 1.3
0.5s 17.00nm 5.1mb
CTI 43.34 292 P 09 11.50 -0.7
DAG 43.60 341 iPc 09 12.90 -1.0
0.5s 7.75nm 4.8mb
TDS 43.85 281 P 09 15.50 -0.8
ARV 43.87 288 P 09 17.00 0.5
MGR 44.08 282 P 09 19.00 0.9
ASS 44.27 287 P 09 20.50 0.7
SDI 44.30 285 P 09 20.50 0.5
ENN 44.37 300 iP 09 21.40 1.1
0.5s 12.00nm 5.0mb
CRE 44.41 288 P 09 22.00 1.0
PGD 44.42 289 P 09 22.50 1.4
CDF 44.74 297 iPc 09 23.70 0.1
0.5s 4.90nm 4.7mb
WLF 44.77 299 P 09 24.50 0.9
MME 44.87 290 P 09 26.00 1.1
BDI 45.01 290 P 09 26.20 0.5
VAI 45.16 293 P 09 25.60 -1.2
PII 45.23 289 P 09 27.00 -0.4
BSF 45.31 296 iPc 09 28.40 0.2
0.5s 8.70nm 5.0mb
SNF 45.41 301 P 09 29.40 0.7
DOU 45.44 300 iPc 09 29.70 0.8
HAU 45.48 297 iPc 09 29.50 0.1
0.6s 27.00nm 5.4mb
LSD 46.33 293 P 09 36.68 0.2
FIN 46.38 291 P 09 35.35 -1.1
RSP 46.44 293 P 09 34.84 -2.2

ROB 46.53 291 P 09 36.89 -0.9
LPG 46.55 293 iPc 09 39.00 0.8
0.7s 14.70nm 5.2mb
BNI 46.84 293 P 09 40.60 0.3
RRL 46.85 293 P 09 40.88 0.4
EKA 47.00 309 P 09 41.00 -0.2
0.5s 8.00nm 5.1mb
LOR 47.30 297 iPc 09 43.30 -0.5
0.5s 12.30nm 5.3mb
LBF 47.39 297 iPc 09 43.80 -0.7
0.4s 5.30nm 5.0mb
SSF 47.62 297 iPc 09 45.60 -0.6
0.6s 4.50nm 4.8mb
SMF 47.65 296 iPc 09 46.10 -0.4
0.6s 7.20nm 5.0mb
FRF 47.68 291 iPc 09 46.80 0.1
0.5s 13.70nm 5.3mb
AVF 47.85 297 iPc 09 47.60 -0.5
0.6s 4.50nm 4.8mb
LMR 47.89 291 iPc 09 48.60 0.2
0.4s 3.40nm 4.8mb
BGF 48.27 297 iPc 09 51.10 -0.3
0.6s 7.20nm 5.0mb
MAF 48.62 296 iPc 09 54.40 0.4
0.7s 14.70nm 5.2mb
TCF 48.79 297 eP 09 55.30 -0.1
0.6s 5.40nm 4.8mb
LDF 48.85 300 iPc 09 55.60 -0.2
0.5s 23.90nm 5.5mb
FLN 48.96 301 iPc 09 56.40 -0.2
0.4s 27.90nm 5.6mb
LSF 49.20 297 eP 09 57.90 -0.6
0.5s 2.40nm 4.5mb
GRR 49.38 300 iPc 09 59.40 -0.4
0.4s 10.30nm 5.2mb
CAF 49.63 295 iPc 10 02.30 0.4
0.8s 5.90nm 4.6mb
LPF 49.67 300 iPc 10 01.80 -0.3
0.6s 16.20nm 5.2mb
RJF 49.74 296 iPc 10 03.20 0.5
0.6s 6.10nm 4.7mb
MFF 49.97 298 iPc 10 04.00 -0.4
0.4s 10.70nm 5.1mb
LPO 50.28 295 iPc 10 07.30 0.5
0.6s 18.00nm 5.2mb
LFF 50.40 296 iPc 10 08.20 0.5
0.6s 9.00nm 4.9mb
EPF 51.75 294 iPc 10 17.20 -0.8
0.6s 11.70nm 5.0mb
BRW 53.02 19 eP 10 26.70 -0.5
MBC 53.67 5 ePc 10 31.20 -0.6
0.5s 30.00nm 5.5mb
IMA 57.81 22 eP 11 01.20 -0.9
0.7s 12.10nm 5.0mb
TTA 59.71 25 P 11 14.60 -0.7
INK 59.81 13 iPc 11 15.10 -0.6
0.5s 12.00nm 5.3mb
FBA 60.17 21 eP 11 17.80 -0.5
ADK 60.47 43 eP 11 19.60 -0.8
SVW 61.29 27 eP 11 26.30 0.3
PWA 62.41 24 iPc 11 32.20 -1.2
PMR 62.65 23 P 11 33.60 -1.4
0.6s 7.39nm 5.1mb
TOA 62.95 22 eP 11 36.60 -0.5
FRB 63.73 344 eP 11 41.00 -1.1
BNG 67.31 249 iPc 12 04.80 -1.0
0.2s 24.00nm 6.1mb X
YKA 67.53 6 P 12 05.90 -0.6
FFC 75.78 0 iPc 12 55.50 -0.3
0.5s 10.00nm 5.2mb
EDM 76.83 7 iPc 13 01.90 0.0
MBL 79.81 141 eP 13 17.80 -0.6
SES 79.81 6 ePc 13 18.30 0.1
PNT 80.03 12 eP 13 19.00 -0.4
0.6s 9.00nm 4.9mb
TIC 80.51 269 Pc 13 22.50 0.1
KIC 80.54 269 Pc 13 22.60 0.0
0.6s 19.00nm 5.3mb
LIC 80.83 269 P 13 24.20 0.1
GMW 81.30 14 P 13 27.50 1.3
RMW 81.54 13 P 13 28.70 1.2
LON 82.23 14 P 13 31.90 0.8
RSNY 82.98 341 P 13 35.60 0.7
0.5s 4.46nm 4.9mb
LRM 84.25 7 eP 13 41.90 0.2
WB5 85.40 128 iPc 13 46.90 -0.4
WRA 85.44 128 Pc 13 46.80 -0.7

17d 04h

0.5s 4.20nm 4.9mb
 BW06 87.49 6 P 13 57.80 0.0
 0.6s 2.21nm 4.6mb
 ASPA 88.34 131 iPc 14 01.30 -0.3
 0.5s 11.00nm 5.4mb
 DAU 89.73 7 P 14 10.00 1.4
 KVN 90.32 13 P 14 12.30 1.1
 GOL 90.76 3 P 14 14.00 0.7
 TNP 91.39 12 P 14 17.00 0.8
 0.7s 4.07nm 4.9mb
 ARN 91.44 16 P 14 17.90 1.7
 ELC 92.50 350 P 14 21.50 0.5
 RLO 94.12 354 e(P) 14 29.70 1.2
 TUL 94.42 355 eP 14 30.20 0.3
 0.9s 2.20nm 4.5mb
 ALQ 95.47 4 e(P) 14 33.50 -1.5
 S.D. = 0.9 on 124 of 124 obs.

FEB 17, 1989 05h 01m 43.41 ± 0.17s
 21.857 S ± 5.9km 176.372 W ± 4.4km
 DEPTH = 141.3km (4 depth phases)
 5.4mb (39 obs.)

FIJI ISLANDS REGION (181)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 11S, 23C
 Centroid Location:
 Origin Time 05:01:52.0 1.1
 Lat 21.96S 0.10 Lon 176.47W 0.10
 Dep 149.4 3.0 Half-duration 1.8
 Moment Tensor: Scale 10**16 Nm
 Mrr=-6.68 0.75 Mtt= 5.27 1.23
 Mff= 1.41 1.16 Mrt=-0.51 0.74
 Mrf=-8.48 0.68 Mtf= 7.49 1.04
 Principal Axes:
 T Val= 12.89 Plg=18 Azm=135
 N -0.06 33 33
 P -12.83 51 249
 Best Double Couple: Mo=1.3*10**17
 NP1: Strike=265 Dip=40 Slip=-32
 NP2: 20 70 -125

RAO 7.49 190 eP 03 32.70 1.4
 iS 04 53.80
 AFI 9.03 30 eP 03 43.00 -9.0X
 eS 05 13.20
 PVC 14.98 283 iPc 05 15.50 6.3X
 RAR 15.46 91 P 05 14.00 -1.1
 S 07 50.00
 DZM 15.94 266 iPc 05 26.70 5.4X
 KRP 17.47 202 P 05 40.00 0.3
 0.3s 39.00nm 5.2mb
 WEL 20.77 199 eP 06 12.00 -2.6
 eS 09 50.00
 TBI 24.88 99 iP 06 56.90 2.4
 AFR 25.39 85 iP 06 58.40 -0.9
 1.2s 90.00nm 5.2mb
 PPT 25.57 85 iP+ 07 00.00 -1.0
 1.2s 80.00nm 5.2mb
 Z 18s 0.40um 4.0msz
 PPN 25.71 85 iP 07 01.40 -0.9
 1.2s 50.00nm 5.0mb
 MSZ 26.18 206 P 07 06.00 -0.3
 0.3s 37.00nm 5.5mb
 TPT 28.09 81 iP 07 22.10 -1.8
 1.2s 40.00nm 5.0mb
 RUV 28.24 81 iP 07 23.30 -1.9
 1.2s 70.00nm 5.2mb
 BRS 28.54 253 Pd 07 21.40 -6.5X
 COO 29.69 246 eP 07 39.00 0.9
 RMO 32.09 255 iPc 08 07.60 8.5X
 1.1s 159.00nm 5.7mb
 CNB 32.77 238 eP 08 06.00 1.0
 0.8s 232.00nm 6.0mb
 CAN 33.06 238 iPd 08 08.00 0.5
 BWA 33.31 240 iPd 08 07.80 -1.9
 e 08 38.90
 CMS 34.97 246 eP 08 24.00 0.2
 1.0s 265.00nm 6.0mb
 TOO 36.36 236 eP 08 36.00 0.5
 TAU 36.76 227 eP 08 40.00 1.2
 PMG 37.14 284 iPc 08 43.00 0.8
 0.7s 246.58nm 6.1mb
 STK 38.60 246 iPd 08 55.40 1.1
 0.6s 59.00nm 5.5mb
 QIS 40.96 263 eP 09 14.00 0.2
 e 11 12.00

ADE 41.29 242 eP 09 16.70 0.3
 0.7s 65.75nm 5.4mb
 ASPA 45.70 258 iPd 09 51.30 -0.8
 1.0s 321.00nm 5.9mb
 Z 20s 0.30um 4.2msz
 ePcP 11 28.10
 ePcS 15 18.00
 eS 16 21.70
 iScS 19 35.70
 LR 29 06.80
 JAY 45.91 289 ePd 09 52.30 -1.5
 0.8s 541.80nm 6.3mb
 WB5 45.92 263 eP 09 53.20 -0.6
 iPcP 11 29.20
 WRA 45.93 263 Pc 09 54.00 0.1
 1.0s 101.50nm 5.4mb
 FORR 50.13 247 eP 10 25.00 -1.2
 0.5s 100.00nm 5.9mb
 MTN 50.70 271 eP 10 29.00 -1.8
 0.7s 148.00nm 5.9mb
 e 12 42.00
 WARB 51.88 253 eP 10 30.10 -9.6X
 COOL 56.08 247 eP 11 08.00 -2.2
 0.7s 33.00nm 5.4mb
 KLB 58.86 245 eP 11 28.00 -1.7
 0.7s 38.00nm 5.5mb
 MBL 58.95 258 iPc 11 28.80 -1.6
 0.3s 26.00nm 5.7mb
 MEKA 58.99 251 eP 11 28.00 -2.6
 NWA0 59.13 244 eP 11 31.00 -0.5
 0.9s 29.00nm 5.2mb
 RKG 59.17 243 eP 11 31.00 -0.8
 BAL 59.90 246 eP 11 35.00 -1.8
 0.7s 27.00nm 5.3mb
 MUN 60.12 245 eP 11 37.50 -0.7
 0.8s 42.00nm 5.5mb
 NANU 62.52 255 iPd 11 53.90 -0.5
 0.4s 28.00nm 5.6mb
 SPA 68.28 180 e(P) 12 32.30 1.4
 1.0s 23.50nm 5.0mb
 e 12 47.00
 TRT 69.56 270 ePc 12 39.20 -0.2
 0.4s 27.60nm 5.4mb
 MAT 72.20 323 eP 12 53.00 -1.7
 1.1s 40.51nm 5.1mb
 ADK 73.42 360 eP 13 00.40 -1.0
 0.6s 73.20nm 5.6mb
 SMY 74.73 354 P 13 07.30 -1.7
 0.9s 166.67nm 5.8mb
 PRS 77.77 43 ePd 13 26.90 0.5
 e 14 01.20
 PRI 78.09 43 e(P) 13 29.10 0.8
 e 14 04.20
 BKS 78.21 41 e(P)d 13 29.40 0.7
 MHC 78.23 42 ePd 13 29.20 0.1
 e 14 04.70
 PLM 78.93 47 eP 13 33.00 -0.1
 e 14 09.00
 RVR 78.96 47 eP 13 38.00 5.1X
 e 14 08.00
 SBB 79.06 46 eP 13 33.00 -0.6
 e 14 08.00
 ISA 79.21 45 eP 13 34.00 -0.4
 e 14 10.00
 FRI 79.22 43 ePd 13 34.50 0.2
 e 14 09.40
 ORV 79.72 40 eP 13 36.90 0.0
 WDC 79.76 39 ePd 13 37.50 0.4
 e 14 12.50
 CLC 79.88 45 eP 13 38.00 0.1
 e 14 13.00
 TPC 79.92 47 eP 13 35.00 -3.2X
 e 14 14.00
 MIN 80.16 39 e(P) 13 39.20 -0.2
 e 14 14.30
 GLA 80.16 49 eP 13 41.00 1.5
 LBFM 80.63 38 P 13 42.50 0.5
 MAW 80.80 199 eP 13 44.00 1.8
 e 13 53.00
 TNP 81.46 43 P 13 46.60 0.3
 0.9s 4.56nm 4.2mb X
 pP 14 22.40 142km
 KVN 81.48 42 P 13 45.80 -0.6
 pP 14 22.30 146km
 KGM 81.76 275 ePc 13 49.20 1.1
 MDJ 82.50 324 eP 13 51.50 0.2
 LON 84.17 34 P 14 00.00 0.2

CN2 84.30 322 iPc 14 01.00 0.6
 IPM 84.84 277 ePc 14 04.80 1.0
 0.9s 54.70nm 5.4mb
 MSU 84.97 45 P 14 05.10 0.9
 pP 14 40.70 140km
 PMR 85.99 13 eP 14 07.70 -0.7
 0.8s 15.40nm 4.9mb
 TTA 86.02 9 eP 14 08.60 -0.1
 PSI 86.08 274 ePc 14 10.40 0.5
 1.0s 29.30nm 5.1mb
 SNG 86.20 279 eP 14 12.20 1.7
 PNT 86.94 33 eP 14 14.00 0.7
 0.9s 19.00nm 5.0mb
 ALQ 87.07 51 eP 14 14.90 0.3
 1.0s 7.00nm 4.6mb
 eP 14 50.00 137km
 TOA 87.08 14 eP 14 13.80 0.0
 BJI 87.92 315 eP 14 19.00 0.8
 LRM 88.80 39 eP 14 35.90 13.3X
 BW06 88.92 43 P 14 22.60 -0.7
 1.0s 4.50nm 4.5mb
 NNT 89.07 284 eP 14 26.00 1.8
 FBA 89.24 12 ePc 14 23.00 -1.0
 TIY 89.31 311 Pc 14 26.20 1.2
 IMA 89.33 9 eP 14 24.10 -0.4
 1.0s 17.50nm 5.1mb
 GOL 90.12 47 P 14 29.00 0.0
 HHC 91.38 314 P 14 35.60 1.1
 BDT 91.48 288 eP 14 36.20 1.0
 CHG 92.13 289 iPd 14 40.60 2.4
 0.8s 8.96nm 5.0mb
 EDM 92.43 32 eP 14 38.50 -0.4
 MEO 92.78 54 eP 14 40.20 -0.8
 0.9s 10.40nm 5.1mb
 e 14 47.50
 e 15 17.80
 BRW 93.91 6 eP 14 44.70 -0.6
 YKA 97.11 24 P 15 00.50 0.5
 MAIO 129.74 300 ePKP 20 38.00 0.2
 SOD 132.24 348 iPKP 20 40.80 -0.6
 KJF 134.75 345 ePKP 20 37.00 -9.2X
 e 20 46.00
 SUF 136.38 345 iPKP 20 41.80 -7.6X
 0.4s 2.90nm
 NUR 138.65 344 ePKP 20 46.00 -7.7X
 i 20 54.00
 NB2 140.49 354 PKP 20 49.00 -8.1X
 0.8s 5.50nm
 HFS 141.10 352 ePKP 20 49.00 -9.1X
 0.4s 3.10nm
 ELO 145.01 7 ePKPd 21 03.90 -1.1
 0.8s 114.00nm
 EDU 145.01 6 ePKPd 21 04.00 -0.9
 MUD 145.20 355 iPKPc 21 04.70 -0.5
 0.8s 60.00nm
 EAB 145.21 8 ePKPd 21 04.80 -0.5
 0.9s 104.00nm
 EBH 145.25 7 ePKPd 21 05.00 -0.4
 EKA 146.19 7 PKP 21 07.00 0.0
 1.0s 41.90nm
 KVT 146.63 313 iPKP 21 10.10 1.9
 WIT 149.01 356 iPKPd 21 17.00 5.5X
 KRA 149.06 339 iPKPd 21 16.00 4.3X
 i 21 20.70
 KSP 149.42 344 ePKP 21 13.00 0.8
 0.9s 65.00nm
 id 21 17.80
 ic 21 23.00
 e 21 56.20
 HRI 149.46 299 iPKPd 21 19.00 6.0X
 VRI 149.53 327 ePKPd 21 18.00 5.4X
 SPC 149.70 338 ePKP 21 18.60 5.7X
 TLB 149.70 324 ePKPd 21 18.50 5.7X
 CLL 149.71 348 iPKP 21 13.20 0.6
 1.1s 115.00nm
 i 21 17.80
 pPKP 21 56.00
 WTS 149.82 356 iPKPd 21 18.40 5.7X
 1.0s 136.00nm
 e 21 24.50
 BRG 149.93 347 iPKP 21 13.40 0.4
 i 21 18.50
 i 21 23.60
 iPKP 21 57.80
 JVI 150.08 296 iPKPd 21 20.40 6.6X
 ISR 150.12 326 ePKPd 21 19.50 6.0X
 MLR 150.18 328 ePKPd 21 19.50 5.8X

| | | | | | | | | | | | | | | | | | | | | | |
|------|--------|---------|--------|----|-------|-------|------|------|-----|------|----|-------|-------|------------------------------------|--------|---------|--------|----|-------|-------|-----------------------------|
| IKL | 150.21 | 305 | iPKP | 21 | 18.50 | 4.6X | FVI | 0.20 | 21 | Pc | 51 | 53.70 | 0.0 | PNT | 13.89 | 120 | eP | 41 | 30.00 | 3.2X | |
| MOX | 150.59 | 350 | ePKP | 21 | 14.00 | 0.0 | | | | eSg | 51 | 57.50 | | EDM | 14.75 | 98 | eP | 41 | 38.00 | -0.2 | |
| PRU | 150.63 | 346 | ePKP | 21 | 14.00 | -0.1 | RBL | 0.62 | 86 | P | 52 | 00.50 | -1.3 | LON | 14.89 | 131 | eP | 41 | 42.00 | 2.1 | |
| | | | e | 21 | 20.10 | | | | | iSg | 52 | 09.50 | | BRW | 15.59 | 338 | eP | 41 | 51.70 | 2.8X | |
| HQL | 150.77 | 291 | ePKP | 21 | 21.30 | 6.4X | CTI | 0.79 | 244 | P | 52 | 04.20 | -0.6 | VGB | 16.31 | 132 | eP | 42 | 02.00 | 3.7X | |
| GPA | 150.85 | 315 | iPKP | 21 | 20.50 | 5.7X | | | | eSg | 52 | 14.40 | | SES | 17.47 | 103 | eP | 42 | 12.00 | -0.9 | |
| MBH | 150.85 | 292 | iPKPd | 21 | 22.00 | 7.0X | KBA | 0.82 | 34 | iPgc | 52 | 05.80 | 0.6 | MBC | 19.71 | 13 | eP | 42 | 39.00 | -0.9 | |
| PSZ | 150.90 | 337 | ePKP | 21 | 20.20 | 5.6X | | | | iSg | 52 | 17.20 | | | 0.9s | 44.00nm | | | | 4.8mb | |
| ENN | 151.09 | 357 | iPKPd | 21 | 21.30 | 6.6X | SCE | 0.92 | 314 | iPgc | 52 | 06.80 | -0.1 | LRM | 19.78 | 116 | eP | 42 | 41.60 | 0.5 | |
| | 0.9s | 60.00nm | | | | | TRI | 1.03 | 132 | iPgc | 52 | 09.70 | 1.0 | WDC | 19.96 | 143 | eP | 42 | 46.50 | 3.8X | |
| | | | e | 21 | 28.00 | | | | | iSg | 52 | 25.70 | | | | | e | 42 | 50.20 | | |
| UCC | 151.11 | 359 | PKP | 21 | 21.60 | 6.9X | OGA | 1.23 | 293 | iPgc | 52 | 12.60 | 0.4 | FFC | 20.18 | 83 | eP | 42 | 43.00 | -1.9 | |
| GBZT | 151.14 | 317 | iPKPd | 21 | 20.20 | 5.1X | KHC | 2.80 | 12 | eP | 53 | 20.00 | 45.1X | KVN | 22.86 | 137 | eP | 43 | 12.80 | 0.4 | |
| MEM | 151.24 | 357 | PKPd | 21 | 21.30 | 6.4X | | | | | | | | ARN | 23.23 | 145 | eP | 43 | 16.50 | 0.7 | |
| YLV | 151.31 | 316 | iPKP | 21 | 22.00 | 6.5X | | | | | | | | BW06 | 23.43 | 118 | eP | 43 | 17.50 | -0.5 | |
| SNF | 151.40 | 359 | PKPd | 21 | 21.90 | 6.7X | | | | | | | | | 2.3s | 66.94nm | | | | 4.8mb | |
| SRO | 151.54 | 339 | iPKP | 21 | 23.00 | 7.5X | | | | | | | | TNP | 24.04 | 136 | eP | 43 | 25.00 | 1.2 | |
| | | | i | 21 | 32.00 | | | | | | | | | | 0.9s | 10.42nm | | | | 4.4mb | |
| GRF | 151.58 | 350 | ePKP | 21 | 16.10 | 0.6 | | | | | | | | NPN | 25.29 | 133 | eP | 43 | 36.50 | 0.7 | |
| | | | e | 21 | 22.40 | | | | | | | | | YMT6 | 25.42 | 136 | eP | 43 | 37.80 | 0.8 | |
| | | | e | 21 | 31.60 | | | | | | | | | YMT3 | 25.48 | 136 | eP | 43 | 37.90 | 0.3 | |
| CTT | 151.58 | 318 | ePKP | 21 | 22.40 | 6.6X | ABL | 0.30 | 197 | iPd | 10 | 32.70 | 0.1 | LSM | 25.58 | 136 | eP | 43 | 39.00 | 0.5 | |
| ZST | 151.59 | 341 | i(PKP) | 21 | 23.00 | 7.5X | BCH | 0.80 | 274 | iPc | 10 | 42.70 | 0.1 | PANV | 25.58 | 138 | eP | 43 | 39.50 | 0.9 | |
| | | | e | 21 | 32.00 | | BLP | 1.20 | 242 | eP | 10 | 49.90 | 0.4 | MSU | 25.68 | 127 | eP | 43 | 40.00 | 0.4 | |
| DMK | 151.59 | 320 | ePKP | 21 | 22.20 | 6.4X | PHAM | 1.26 | 304 | eP | 10 | 50.20 | -0.3 | ALE | 31.28 | 14 | eP | 44 | 29.00 | -0.4 | |
| KHC | 151.66 | 346 | iPKP | 21 | 17.00 | 1.3 | PEC | 2.04 | 127 | eP | 11 | 01.70 | -0.3 | | 0.8s | 7.00nm | | | | 4.6mb | |
| | | | i | 21 | 23.00 | | GWY | 2.25 | 62 | eP | 11 | 05.00 | -0.2 | FRB | 32.92 | 50 | eP | 44 | 44.00 | 0.2 | |
| | | | i | 21 | 32.40 | | AMR | 2.49 | 59 | eP | 11 | 08.50 | 0.0 | MEQ | 34.99 | 114 | eP | 45 | 00.90 | -1.2 | |
| VKA | 151.76 | 342 | iPKPc | 21 | 23.30 | 7.5X | PLM | 2.58 | 133 | eP | 11 | 09.30 | -0.6 | | 0.8s | 2.80nm | | | | 4.2mb | |
| | 0.5s | 17.60nm | | | | | NOP | 2.61 | 67 | eP | 11 | 10.00 | -0.3 | SIO | 35.36 | 110 | e(P) | 45 | 04.30 | -0.9 | |
| DOU | 151.81 | 359 | PKP | 21 | 23.10 | 7.3X | YMT3 | 2.74 | 52 | eP | 11 | 13.20 | 1.0 | LNO | 35.49 | 110 | e(P) | 45 | 05.30 | -0.9 | |
| | | | e | 22 | 01.40 | | JON | 2.77 | 61 | eP | 11 | 12.80 | 0.2 | TUL | 35.49 | 110 | eP | 45 | 05.00 | -1.3 | |
| BCK | 152.01 | 310 | ePKP | 21 | 21.80 | 5.2X | LSM | 2.81 | 54 | eP | 11 | 13.70 | 0.5 | | 0.7s | 7.60nm | | | | 4.7mb | |
| BZS | 152.10 | 332 | ePKP | 21 | 23.50 | 7.1X | LOP | 2.94 | 53 | eP | 11 | 16.10 | 1.0 | RLO | 35.68 | 108 | e(P) | 45 | 06.80 | -1.1 | |
| WLF | 152.18 | 356 | PKP | 21 | 24.50 | 8.2X | TNP | 3.31 | 27 | e(P) | 11 | 18.80 | -1.6 | DAG | 40.41 | 18 | iPd | 45 | 46.80 | -0.1 | |
| KHL | 152.36 | 312 | ePKP | 21 | 24.50 | 7.4X | KVN | 3.99 | 11 | eP | 11 | 36.00 | 6.0X | | 0.7s | 4.79nm | | | | 4.3mb | |
| FLN | 152.95 | 6 | ePKP | 21 | 25.10 | 7.6X | | | | | | | | NB2 | 59.09 | 17 | P | 48 | 08.50 | -1.6 | |
| LOF | 153.15 | 6 | ePKP | 21 | 25.60 | 7.8X | | | | | | | | | 0.9s | 6.20nm | | | | 4.7mb | |
| GRR | 153.28 | 7 | ePKP | 21 | 26.00 | 8.1X | | | | | | | | MFF | 70.28 | 29 | eP | 49 | 23.30 | 0.5 | |
| CDF | 153.34 | 355 | ePKP | 21 | 26.20 | 8.0X | | | | | | | | | 0.8s | 9.10nm | | | | 5.0mb | |
| LPF | 153.62 | 7 | ePKP | 21 | 26.50 | 8.1X | | | | | | | | LOR | 70.66 | 26 | eP | 49 | 25.20 | 0.1 | |
| KBA | 153.64 | 345 | iPKPc | 21 | 18.30 | -0.4 | | | | | | | | | 1.0s | 6.00nm | | | | 4.7mb | |
| | 0.8s | 25.70nm | | | | | | | | | | | | SSF | 70.77 | 27 | eP | 49 | 26.00 | 0.2 | |
| | | | i | 21 | 26.20 | | | | | | | | | | 0.6s | 1.80nm | | | | 4.4mb | |
| | | | i | 21 | 39.80 | | | | | | | | | AVF | 70.99 | 27 | eP | 49 | 27.20 | 0.1 | |
| | | | i | 22 | 18.40 | | | | | | | | | | 0.6s | 2.70nm | | | | 4.6mb | |
| HAU | 153.82 | 356 | ePKP | 21 | 27.30 | 8.5X | SIT | 1.72 | 115 | iPc | 38 | 34.10 | -3.8X | BGF | 71.08 | 27 | eP | 49 | 27.80 | 0.1 | |
| BSF | 153.96 | 355 | ePKP | 21 | 27.50 | 8.4X | YKU | 1.92 | 336 | ePd | 38 | 43.80 | 2.9 | | 0.8s | 7.20nm | | | | 4.9mb | |
| PTJ | 153.99 | 340 | ePKP | 21 | 19.10 | 0.0 | BCPM | 2.28 | 341 | eP | 38 | 46.39 | 0.3 | TCF | 71.18 | 28 | eP | 49 | 28.20 | -0.1 | |
| RBL | 154.18 | 344 | PKP | 21 | 14.50 | -4.9X | HYT | 3.04 | 6 | P | 38 | 57.50 | 0.5 | | 0.6s | 2.70nm | | | | 4.5mb | |
| LJU | 154.28 | 342 | ePKP | 21 | 20.00 | 0.6 | CTGM | 3.55 | 334 | iP | 39 | 06.25 | 2.0 | SMF | 71.24 | 27 | eP | 49 | 28.50 | -0.1 | |
| VOY | 154.47 | 343 | ePKP | 21 | 19.90 | 0.1 | | | | | | | | | 0.8s | 4.00nm | | | | 4.6mb | |
| | | | e | 21 | 28.30 | | RAGM | 4.23 | 310 | eP | 39 | 13.49 | -0.3 | MAF | 71.33 | 28 | eP | 49 | 29.40 | 0.2 | |
| | | | e | 21 | 42.70 | | | | | | | | | | 0.8s | 4.00nm | | | | 4.6mb | |
| VBY | 154.56 | 341 | e(PKP) | 21 | 20.30 | 0.5 | SGAM | 4.51 | 310 | eP | 39 | 19.92 | 2.2 | LPO | 72.41 | 29 | eP | 49 | 36.00 | 0.4 | |
| | | | i | 21 | 29.50 | | GLB | 4.63 | 324 | eP | 39 | 20.08 | 0.6 | | 0.8s | 11.80nm | | | | 5.0mb | |
| CEY | 154.59 | 342 | ePKP | 21 | 20.60 | 0.8 | CVA | 4.76 | 308 | eP | 39 | 22.35 | 1.0 | SPA | 147.64 | 180 | e(PKP) | 57 | 53.20 | 3.5X | |
| | | | i | 21 | 44.00 | | HIN | 5.01 | 305 | eP | 39 | 23.75 | -1.1 | | 1.0s | 4.50nm | | | | | |
| LOR | 154.65 | 360 | ePKP | 21 | 29.10 | 9.2X | FID | 5.18 | 308 | eP | 39 | 28.03 | 0.8 | | | | | | | | S.D. = 1.0 on 70 of 77 obs. |
| TRI | 154.80 | 343 | ePKP | 21 | 28.70 | 8.7X | VZW | 5.37 | 311 | eP | 39 | 30.25 | 0.2 | | | | | | | | |
| | | | i | 21 | 43.10 | | KLU | 5.39 | 316 | eP | 39 | 29.40 | -0.9 | ? FEB 17, 1989 07h 46m 10.09±1.51s | | | | | | | |
| SSF | 154.86 | 0 | ePKP | 21 | 29.70 | 9.6X | GLI | 5.50 | 308 | eP | 39 | 31.85 | 0.0 | 27.207 N ±13.8km 140.081 E ±38.0km | | | | | | | |
| LBF | 154.93 | 359 | ePKP | 21 | 29.60 | 9.3X | KNIM | 5.55 | 301 | eP | 39 | 30.96 | -1.5 | DEPTH = 420.9 ± 15.1 km | | | | | | | |
| SKO | 154.98 | 327 | ePKP | 21 | 20.20 | -0.2 | TOA | 5.89 | 320 | eP | 39 | 39.80 | 2.6 | 4.5mb (1 obs.) | | | | | | | |
| CTI | 155.00 | 347 | PKP | 21 | 19.50 | -1.0 | PWL | 6.03 | 305 | eP | 39 | 37.91 | -1.3 | BONIN ISLANDS REGION (212) | | | | | | | |
| TCF | 155.60 | 2 | ePKP | 21 | 31.00 | 9.8X | DWY | 6.29 | 355 | P | 39 | 43.10 | 0.2 | CHJJ | 8.86 | 354 | P | 48 | 16.30 | 0.2 | |
| LSF | 155.61 | 4 | ePKP | 21 | 30.90 | 9.7X | PAX | 6.31 | 328 | eP | 39 | 44.84 | 1.6 | | | | eS | 49 | 54.10 | | |
| MAF | 155.68 | 2 | ePKP | 21 | 31.40 | 10.1X | PTE | 6.34 | 303 | eP | 39 | 41.98 | -1.5 | KAKJ | 8.97 | 0 | P | 48 | 16.80 | -0.5 | |
| VAL | 155.68 | 351 | PKP | 21 | 21.50 | 0.3 | KNK | 6.34 | 309 | eP | 39 | 42.87 | -0.8 | | | | eS | 49 | 54.80 | | |
| OHR | 155.94 | 327 | ePKP | 21 | 21.50 | -0.4 | SML | 6.50 | 312 | eP | 39 | 45.66 | -0.3 | MAT | 9.44 | 351 | (P) | 48 | 23.00 | 0.3 | |
| ORO | 156.03 | 352 | PKP | 21 | 24.50 | 2.6 | PME | 6.69 | 309 | eP | 39 | 48.26 | -0.2 | NIJ | 10.05 | 355 | P | 48 | 29.60 | 0.0 | |
| LPG | 156.28 | 355 | ePKP | 21 | 33.40 | 10.9X | PMR | 6.71 | 309 | eP | 39 | 49.20 | 0.4 | WB5 | 47.13 | 187 | eP | 54 | 04.10 | 0.0 | |
| BNG | 157.43 | 222 | iPKPc | 21 | 25.00 | 0.5 | PMS | 6.73 | 305 | eP | 39 | 49.00 | -0.2 | YKA | 72.93 | 28 | P | 56 | 56.30 | 0.2 | |
| | 0.7s | 9.00nm | | | | | SLKM | 6.76 | 299 | eP | 39 | 49.38 | -0.1 | SUF | 76.28 | 334 | iP | 57 | 14.60 | -0.3 | |
| | | | ic | 21 | 57.90 | | NKA | 7.31 | 299 | eP | 39 | 58.23 | 1.1 | | 0.3s | 3.40nm | | | | 4.5mb | |
| | | | id | 22 | 03.50 | | KDC | 7.66 | 276 | eP | 40 | 01.40 | -0.6 | NUR | 78.11 | 333 | iP | 57 | 25.10 | 0.2 | |
| | | | id | 25 | 38.00 | | SPU | 7.83 | 301 | eP | 40 | 03.07 | -1.4 | | | | | | | | S.D. = 0.4 on 8 of 8 obs. |
| LIC | 162.35 | 150 | PKP | 21 | 30.40 | 0.7 | CRP | 7.90 | 302 | eP | 40 | 04.89 | -0.7 | % FEB 17, 1989 09h 21m 03.24±0.88s | | | | | | | |
| KIC | 162.60 | 151 | PKP | 21 | 30.40 | 0.5 | RED | 7.95 | 295 | eP | 40 | 05.38 | -0.9 | 39.109 N ± | | | | | | | |

17d 09h

EZN 1.21 307 ePn 21 26.00 0.2
 BNT 1.27 11 iPn 21 26.90 0.1
 KCT 1.28 27 iPn 21 26.40 -0.6
 S.D. = 0.6 on 5 of 5 obs.

& FEB 17, 1989 09h 30m 24.90s
 38.500 N 122.255 W
 DEPTH = 4.0km
 NORTHERN CALIFORNIA (36)
 <BRK>. ML 2.6 (BRK).

NWRM 0.50 265 eP 30 34.60 -0.3
 ZSP 0.55 180 ePd 30 36.30 0.3
 BKS 0.62 179 iPc 30 37.40 0.1
 MHC 1.25 157 e(P)c 30 46.25 -2.6
 ARN 1.28 153 eP 30 47.00 -2.3
 KVN 3.29 79 eP 31 23.00 4.5
 6 obs. associated

FEB 17, 1989 09h 52m 03.00±0.77s
 43.421 N ± 4.7km 5.421 E ± 5.8km
 DEPTH = 10.0km (geophysicist)
 NEAR SOUTH COAST OF FRANCE (379)
 MD 2.8 (STR).

GELF 0.04 173 Pg 52 04.88 -0.2
 TREF 0.20 352 Pg 52 06.96 -0.5
 BERF 0.22 119 Pg 52 08.65 0.8
 PUYF 0.23 61 Pg 52 07.20 -0.8
 PRAF 0.42 335 Pg 52 12.00 0.3
 VILF 0.48 26 Pg 52 12.18 -0.6
 TAVF 0.50 67 Pg 52 12.35 -0.9
 GANF 0.68 31 Pg 52 16.84 0.4
 CALN 1.12 72 Pg 52 24.72 0.7
 MVIF 1.34 69 Pn 52 28.10 0.3

TOUF 1.45 65 Pn 52 29.69 0.2
 AURF 1.46 71 Pn 52 29.53 0.1
 AUTN 1.56 68 Pn 52 31.64 0.6
 SAOF 1.65 69 Pn 52 32.11 0.0
 DOI 1.70 50 P 52 34.00 1.0
 BNI 1.86 28 P 52 38.50 3.2X
 CKI 2.30 63 P 52 45.00 3.5X
 CVF 2.67 107 Pn 52 45.50 -1.3
 S.D. = 0.7 on 16 of 18 obs.

% FEB 17, 1989 10h 43m 12.80±2.51s
 60.573 N ± 10.9km 4.720 E ± 20.5km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN NORWAY (535)
 MD 1.6 (BER).

BER 0.36 122 eP 43 19.83 -0.3
 HYA 0.93 50 eP 43 30.49 -0.1
 ODD1 1.16 124 iP 43 34.19 -0.3
 KMY 1.39 169 eP 43 37.59 -0.6
 BLS1 1.59 137 eP 43 42.49 1.3
 S.D. = 1.1 on 5 of 5 obs.

? FEB 17, 1989 12h 07m 03.38±5.54s
 40.271 N ± 13.6km 124.941 W ± 48.5km
 DEPTH = 10.0km (geophysicist)
 NEAR COAST OF NORTHERN CALIF. (35)
 ML 3.1 (BRK).

FHC 0.90 54 iPc 07 20.70 0.0
 WDC 1.86 80 eP 07 35.80 0.3
 LTCM 2.16 91 eP 07 40.00 0.1
 LBFM 2.55 64 eP 07 45.50 -0.2
 MHC 3.90 138 ePc 08 04.55 -0.2
 SAO 4.45 141 ePc 08 12.62 0.2
 KVN 5.42 101 eP 08 26.10 -0.3
 S.D. = 0.3 on 7 of 7 obs.

% FEB 17, 1989 12h 31m 36.83±0.61s
 41.073 N ± 5.5km 28.461 E ± 5.6km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

CTT 0.08 342 ePg 31 38.70 -0.6
 ISK 0.45 91 ePg 31 46.00 0.0
 BNT 0.83 210 iPn 31 52.80 0.0
 KCT 0.83 186 iPn 31 52.80 -0.1
 YLV 0.86 126 iPn 31 53.30 -0.1
 DMK 0.92 325 iPn 31 54.80 0.5
 HRT 0.95 105 ePn 31 55.20 0.3
 S.D. = 0.4 on 7 of 7 obs.

* FEB 17, 1989 13h 24m 09.99±1.78s
 31.612 S ± 10.8km 69.527 W ± 18.0km
 DEPTH = 33.0km (normal)
 SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.63 79 iPd 24 23.80 1.2
 RTCV 0.88 107 iPc 24 26.00 0.0
 RTLL 0.95 73 iPd 24 25.80 -1.2
 MDZ 1.39 156 iP 24 33.30 -0.1
 RTRS 1.44 2 iPc 24 34.00 0.1
 S.D. = 1.2 on 5 of 5 obs.

FEB 17, 1989 13h 43m 26.65±0.41s
 22.175 S ± 8.1km 68.410 W ± 8.2km
 DEPTH = 122.2km (9 depth phases)
 4.7mb (3 obs.)
 NORTHERN CHILE (123)

HJA 2.96 111 iPc 44 15.90 2.8
 FSA 4.47 151 e(P) 44 34.20 0.8
 CCH 5.22 25 P 44 46.50 2.4
 CNCB 5.35 4 P 44 47.30 1.3
 LPB 5.62 3 eP 44 55.00 5.4X
 ZOBO 5.88 3 P 44 47.50 -5.8X
 Z 20s 0.15um

PEL 11.11 190 eP 46 02.00 -1.1
 VAO 19.82 96 e(P) 47 48.00 -2.0
 BAO 20.37 75 eP 47 54.00 -1.8
 ITA 21.94 95 eP 48 11.10 -0.5
 ATB 24.48 42 Pd 48 33.60 -2.2
 ELC 62.31 341 P 53 35.70 -2.3
 FVM 63.32 341 P 53 42.80 -1.8
 MEO 63.48 332 eP 53 43.50 -2.3
 1.2s 14.00nm 4.8mb
 ALQ 67.31 327 iPd 54 10.00 -0.6
 1.0s 15.50nm 4.8mb

KIC 68.45 73 P 54 17.00 -0.8
 GOL 70.57 331 P 54 30.00 -0.6
 MSU 73.00 325 P 54 45.20 0.2
 NOP 73.48 321 P 54 47.50 -0.1
 NPN 73.86 323 P 54 51.00 1.0
 DAU 73.94 327 P 54 51.00 0.5
 LSM 73.98 322 P 54 51.30 0.8
 YMT3 74.09 322 P 54 51.80 0.6
 SRG 74.10 323 P 54 52.30 1.0
 BCB 74.16 322 P 54 52.00 0.3
 YMT5 74.19 322 P 54 52.40 0.6
 TPU 74.23 323 P 54 52.30 0.2
 BMTN 74.57 322 P 54 54.30 0.2
 KRNA 74.74 322 P 54 55.50 0.4
 BW06 74.93 330 P 54 55.00 -1.1
 1.2s 7.71nm 4.4mb

GMN 74.93 322 P 54 56.30 0.1
 LCH 75.11 321 P 54 57.50 0.4
 PPK 75.39 321 P 54 59.10 0.3
 TNP 75.45 322 P 54 59.40 0.3
 KVN 76.62 322 P 55 05.60 0.0
 55 36.80 123km

SES 81.48 334 eP 55 31.00 -0.4
 YKA 91.97 340 P 56 22.10 0.0
 BNI 95.48 43 P 56 45.40 6.6X

DOI 95.61 44 P 56 41.00 1.7
 CKI 96.25 45 P 56 47.40 5.3X
 BOB 97.15 45 P 57 01.70 15.5X
 WRA 132.60 210 PKP 02 31.00 1.9
 0.6s 1.30nm
 GBA 146.46 99 PKPd 02 54.30 0.2
 0.5s 2.00nm
 AAI 149.60 214 ePKP 02 40.50 -18.7X
 S.D. = 1.3 on 38 of 44 obs.

FEB 17, 1989 13h 56m 10.00±0.72s
 43.415 N ± 4.4km 5.422 E ± 5.5km
 DEPTH = 10.0km (geophysicist)
 NEAR SOUTH COAST OF FRANCE (379)
 MD 3.0 (STR).

GELF 0.03 173 Pg 56 11.68 -0.4
 TREF 0.21 352 Pg 56 14.20 -0.4
 BERF 0.22 117 Pg 56 15.10 0.3
 PUYF 0.23 60 Pg 56 14.37 -0.7
 PRAF 0.43 335 Pg 56 19.30 0.5
 VILF 0.49 26 Pg 56 19.23 -0.7
 TAVF 0.50 66 Pg 56 19.72 -0.5
 GANF 0.68 31 Pg 56 23.69 0.2
 CALN 1.12 72 Pg 56 31.52 0.5
 MVIF 1.34 68 Pn 56 35.42 0.6
 TOUF 1.45 65 Pn 56 37.05 0.6
 AURF 1.46 70 Pn 56 36.72 0.2
 AUTN 1.57 68 Pn 56 38.67 0.6
 SAOF 1.65 69 Pn 56 39.22 0.1
 CVF 2.67 107 Pn 56 52.87 -0.9
 S.D. = 0.6 on 15 of 15 obs.

* FEB 17, 1989 14h 16m 32.57±2.41s
 14.914 S ± 24.8km 121.129 E ± 16.5km
 DEPTH = 33.0km (normal)
 NORTHWEST OF AUSTRALIA (588)

MBL 6.33 191 eP 18 07.00 0.9
 0.1s 8.00nm 5.4mb X
 KNA 7.42 97 eS 18 22.00 0.7
 NANU 9.27 214 eP 18 47.00 0.0
 0.2s 5.00nm 5.4mb X
 MTN 9.93 79 eP 18 56.00 -0.1
 MEKA 11.89 191 eP 19 22.00 -0.8
 0.3s 3.00nm 4.9mb X
 WARB 12.34 156 eP 19 21.00 -7.9X
 WB5 13.56 113 eP 19 44.20 -1.0
 ASPA 14.86 128 eP 20 02.50 0.3
 S.D. = 0.9 on 7 of 8 obs.

% FEB 17, 1989 14h 17m 58.93±2.96s
 36.684 N ± 17.5km 141.646 E ± 25.4km
 DEPTH = 10.0km (geophysicist)
 NEAR EAST COAST OF HONSHU, JAPAN (228)

KAKJ 1.28 249 iPd 18 22.00 -0.6
 YAMJ 1.96 320 iPd 18 32.40 -0.2
 NIJJ 2.19 285 iPd 18 35.60 -0.3
 CHJJ 2.23 254 iPd 18 35.70 -0.8
 OFUJ 2.39 0 P 18 38.10 -0.7
 MAT 2.77 268 iPd 18 44.30 0.1
 MTMJ 3.09 269 P 18 49.10 0.4
 IIDJ 3.25 249 P 18 52.30 1.2
 AOMJ 4.00 346 eP 19 02.30 0.8
 S.D. = 0.8 on 9 of 9 obs.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| FEB 17, 1989 15h 12m 52.64± 0.81s 17.492 S ± 6.9km 72.590 W ± 7.0km DEPTH = 45.7 ± 6.3 km 5.2mb (16 obs.) 5.3Msz (3 obs.) NEAR COAST OF PERU (115) Felt (11) at Arequipa. CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 11S, 23C Centroid Location: Origin Time 15:12:55.9 0.5 Lat 17.80S 0.09 Lon 72.68W 0.07 Dep 62.9 6.0 Half-duration 1.5 Moment Tensor: Scale 10**16 Nm Mrr= 3.67 0.36 Mtt= 0.04 0.48 Mff=-3.71 0.50 Mrt= 0.48 0.40 Mrf=-3.62 0.40 Mtf= 3.53 0.56 Principal Axes: T Val= 5.34 Plg=61 Azm=116 N 1.57 21 340 P -6.91 18 243 Best Double Couple:Mo=6.1*10**16 NP1:Strike=302 Dip=33 Slip= 48 NP2: 170 66 114 | | | | | | | | | | AVE 80.08 51 iPd 25 00.00 0.6 FRB 81.04 2 eP 25 03.00 -0.6 TUH 82.01 122 e(P) 25 17.00 7.4X EVAL 82.60 47 e(P) 25 13.00 0.5 EPRU 83.37 48 e(P) 25 17.40 0.9 POF 83.75 119 iPd 25 20.00 1.4 0.8s 11.19nm 5.0mb EHOR 83.76 47 e(P) 25 18.50 0.1 ATEJ 84.22 49 iPd 25 21.60 0.7 EPLA 84.24 45 e(P) 25 21.00 0.2 ALOJ 84.24 48 iPc 25 22.00 1.0 AAPN 84.32 48 iPc 25 22.00 0.6 ACHM 84.44 48 eP 25 22.50 0.6 APHE 84.47 49 iPc 25 22.50 0.3 ASMO 84.61 48 iPd 25 23.40 0.6 ERUA 84.66 43 e(P) 25 23.20 0.4 AFC 84.71 48 e(P) 25 23.00 -0.4 TOL 85.53 46 iPc 25 27.50 0.2 1.0s 80.00nm 5.9mb eS 35 55.00 ENIJ 85.54 49 e(P) 25 26.00 -1.3 GUD 85.81 45 e(P) 25 29.00 0.2 EVIA 86.05 48 e(P) 25 31.00 1.0 YKA 86.29 342 P 25 30.10 -0.4 ETOR 87.31 46 e(P) 25 35.40 -0.7 ECHE 87.54 47 e(P) 25 37.00 -0.1 EPF 89.87 45 eP 25 48.80 0.7 1.0s 16.00nm 5.3mb KSR 90.69 117 iPd 25 52.40 -0.1 LFF 90.91 43 eP 25 52.20 -0.5 1.0s 24.00nm 5.6mb LPO 91.10 43 eP 25 53.10 -0.5 0.8s 13.40nm 5.4mb BPI 91.55 118 eP 25 56.00 -0.5 0.3s 38.96nm 6.3mb X SLR 91.91 118 iPd 25 58.00 -0.1 18s 6.19um 6.1Msz Z 92.39 42 eP 25 58.10 -1.5 TCF 92.40 86 iPd 26 00.60 0.3 0.9s 18.00nm 5.5mb ic 29 37.30 ic 29 45.30 MAF 92.59 42 eP 25 59.70 -0.8 1.0s 10.00nm 5.2mb BGF 92.90 42 eP 26 00.60 -1.3 0.8s 8.00nm 5.2mb LPG 95.06 44 eP 26 12.70 0.5 1.2s 11.90nm 5.2mb INK 96.02 341 eP 26 18.00 2.2 KHC 100.57 42 ePd 26 40.20 3.4X VAY 105.14 51 ePKP 31 14.50 2.8 WRA 134.36 217 PKPd 32 09.60 1.5 0.4s 0.90nm WB5 134.39 217 PKP 32 12.00 3.8X KSH 145.04 45 ePKP 32 27.00 0.0 MAT 146.85 311 ePKP 32 31.00 1.0 MDJ 147.16 330 ePKP 32 32.50 2.3 POO 148.09 83 ePKP 32 34.30 1.9 WMO 148.92 28 PKP 32 37.00 3.9X KOD 150.08 100 ePKP 32 42.00 6.0X NDI 150.16 63 ePKP 32 36.00 0.7 GBA 150.88 93 PKPd 32 36.20 -0.5 1.2s 8.00nm SNY 152.07 334 ePKP 32 45.60 7.9X HY8 152.48 86 ePKP 32 39.50 0.4 BJI 156.28 343 ePKP 32 53.00 9.4X CD2 166.23 13 ePKP 32 57.50 3.3X S.D. = 1.2 on 81 of 98 obs. | | | | | | | | | | MVIF 0.45 193 Pg 13 15.59 -0.2 Sg 13 21.85 IMI 0.60 134 P 13 18.40 -0.4 S 13 26.51 FIN 0.67 100 P 13 19.60 -0.3 S 13 28.46 RRL 0.69 328 P 13 19.88 -0.6 S 13 29.17 S.D. = 0.5 on 10 of 10 obs. FEB 17, 1989 17h 27m 48.28± 2.70s 43.743 N ± 6.0km 0.206 W ± 33.5km DEPTH = 10.0km (geophysicist) PYRENEES (378) ML 3.3 (LDG). EPF 0.82 151 Pg 28 04.10 0.0 Sg 28 16.20 LPO 1.37 46 Pn 28 13.40 0.0 Pg 28 16.80 Sg 28 36.30 LFF 1.38 29 Pn 28 13.60 0.1 Pg 28 17.00 Sg 28 36.80 RJF 1.99 38 Pn 28 22.50 0.2 Pg 28 28.10 Sg 28 55.30 CAF 2.01 53 Pn 28 23.00 0.3 Pg 28 28.70 Sg 28 57.20 LSF 2.79 26 Pn 28 34.20 0.4 Pg 28 43.80 Sg 29 20.40 MFF 2.86 1 Pg 28 44.30 9.6X Sg 29 21.70 TCF 3.07 33 Pn 28 37.30 -0.4 Pg 28 47.90 Sg 29 28.80 MAF 3.16 37 Pn 28 39.10 0.0 Sg 29 31.20 BGF 3.55 36 Pn 28 44.60 0.1 Pg 28 57.40 Sg 29 43.80 SSF 4.22 37 Pn 28 53.40 -0.7 S.D. = 0.4 on 10 of 11 obs. FEB 17, 1989 17h 42m 50.40± 0.61s 7.365 S ± 13.2km 106.460 E ± 10.2km DEPTH = 33.0km (normal) 4.7mb (1 obs.) JAVA (277) KSI 5.34 314 e(P) 43 42.70 -27.3X TRT 6.13 94 ePd 44 22.50 1.4 eS 44 51.40 KHKI 9.12 97 eP 45 03.50 0.8 NANU 17.45 151 eP 46 47.00 -6.0X eS 49 46.00 MBL 18.85 138 eP 47 10.00 -0.3 CHG 27.05 344 eP 48 31.40 -0.5 WB5 29.78 118 eP 48 55.20 -1.4 GBA 35.56 306 P 49 48.00 1.2 HY8 36.97 312 eP 49 59.50 0.7 STK 40.80 131 eP 50 30.00 -0.5 NDI 45.60 323 iPd 51 09.20 -0.3 0.6s 20.00nm 5.2mb X GTA 46.94 353 eP 51 19.50 -0.6 CN2 53.75 17 eP 52 10.60 -1.1 MAIO 61.85 318 eP 53 01.00 -8.0X BNG 88.50 275 ePd 55 42.10 0.5 0.7s 3.00nm 4.7mb S.D. = 1.0 on 12 of 15 obs. FEB 17, 1989 18h 38m 28.88± 2.11s 32.852 S ± 10.9km 71.500 W ± 14.8km DEPTH = 11.7 ± 6.4 km NEAR COAST OF CENTRAL CHILE (135) ROCH 0.43 106 iPd 38 38.80 1.0 iS 38 41.00 LCCH 0.62 185 iPc 38 41.80 0.6 iS 38 51.00 PEL 0.74 113 iPd 38 43.70 0.4 JACH 0.78 78 iPc 38 43.00 -1.0 SAN 0.92 131 iPd 38 46.30 -0.1 iS 39 00.10 TACH 0.93 150 iPd 38 46.40 0.0 | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

17d 18h

LNV 1.10 176 iPc 38 49.00 -0.4
 iS 39 04.00
 FCH 1.12 115 iP 38 48.80 -1.2
 PCH 1.13 133 iPd 38 49.50 -0.4
 iS 39 06.60
 CHCH 1.29 147 iPd 38 52.50 -0.2
 iS 39 11.00
 MDZ 2.23 92 eP 39 08.10 1.8
 i(S) 39 44.30
 ZON 2.72 62 eP 39 13.00 -0.3
 CFA 3.03 67 ePd 39 17.50 -0.1
 S.D. = 0.9 on 13 of 13 obs.

FEB 17, 1989 20h 04m 59.72 ± 0.32s
 44.950 N ± 2.5km 6.941 E ± 3.5km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.8 (GEN), 2.7 (LDG).

RRL 0.11 255 P 05 02.01 -0.9
 S 05 03.78
 BNI 0.21 299 Pc 05 03.90 -0.6
 eSg 05 06.50
 RSP 0.30 48 P 05 06.75 0.7
 S 05 11.45
 PZZ 0.46 166 P 05 08.60 -0.5
 S 05 14.90
 DOI 0.50 154 P 05 09.20 -0.6
 eSg 05 15.30
 LSD 0.53 17 P 05 10.44 -0.1
 S 05 18.19
 LPG 0.56 346 Pg 05 11.20 -0.2
 Sg 05 18.50
 LPL 0.59 346 Pg 05 11.70 0.0
 Sg 05 19.10
 STV 0.76 159 P 05 14.35 -0.2
 S 05 24.24
 ROB 0.93 134 P 05 17.42 -0.1
 S 05 29.87
 ORO 1.00 47 Pd 05 18.90 0.2
 eSg 05 32.00
 ORX 1.00 47 P 05 18.98 0.2
 S 05 32.34
 CKI 1.09 118 P 05 18.80 -1.4
 eSg 05 35.20
 SBF 1.14 162 Pg 05 22.20 1.0
 Sg 05 37.00
 FIN 1.17 129 P 05 21.72 0.1
 S 05 36.25
 IMI 1.24 146 P 05 22.75 -0.1
 S 05 37.30
 FRF 1.40 189 Pn 05 26.20 0.9
 Pg 05 27.30
 Sg 05 44.60
 LRG 1.55 196 Pn 05 28.50 1.1
 Sg 05 50.40
 LMR 1.65 191 Pn 05 28.90 0.1
 Sg 05 52.40
 BGF 3.29 301 Pn 05 52.60 0.3
 S.D. = 0.7 on 20 of 20 obs.

* FEB 17, 1989 21h 26m 03.37 ± 0.98s
 40.949 N ± 12.9km 21.344 E ± 7.4km
 DEPTH = 22.4 ± 12.0 km
 GREECE (364)

OHR 0.44 292 iPg 26 12.50 -0.1
 iSg 26 20.50
 GRG 0.80 89 eP 26 18.20 -0.3
 eS 26 34.20
 VAY 1.00 68 ePn 26 21.70 -0.2
 KNT 1.19 79 eP 26 25.40 0.6
 eS 26 45.30
 LIT 1.22 134 eP 26 25.30 0.2
 eS 26 45.10
 PAIG 2.05 119 eP 26 36.90 -0.2
 S.D. = 0.6 on 6 of 6 obs.

FEB 17, 1989 22h 46m 25.91 ± 0.65s
 36.056 N ± 9.2km 27.294 E ± 7.6km
 DEPTH = 10.0km (geophysicist)
 DODECANESE ISLANDS (369)
 MD 3.5 (ATH).

KAP 0.51 191 eP 46 36.10 -0.2
 eS 46 42.40
 NPS 1.58 240 eP 46 53.50 -0.6

KSL 1.86 87 eP 46 58.20 0.2
 ELL 2.22 71 iPn 47 03.80 0.4
 VAM 2.60 256 eP 47 09.50 0.8
 KHL 2.88 38 ePn 47 12.00 -0.7
 BCK 2.99 61 iPn 47 14.50 0.1
 S.D. = 0.7 on 7 of 7 obs.

FEB 17, 1989 23h 21m 32.13 ± 1.04s
 43.519 N ± 9.2km 11.144 E ± 5.3km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)
 MD 2.7 (ROM).

FIR 0.27 18 iPg 21 38.50 0.7
 iSg 21 43.00
 PII 0.49 294 P 21 41.90 -0.2
 eSg 21 48.90
 PGD 0.55 49 P 21 43.20 -0.1
 eSg 21 51.60
 CRE 0.60 79 P 21 44.70 0.4
 eSg 21 51.80
 SFI 0.65 52 P 21 43.90 -1.2
 eSg 21 53.40
 BDI 0.67 324 P 21 45.40 -0.1
 eSg 21 54.70
 MME 0.75 335 P 21 47.20 0.3
 eSg 21 57.80
 ASS 1.19 112 P 21 54.60 0.2
 S.D. = 0.7 on 8 of 8 obs.

FEB 17, 1989 23h 24m 31.07 ± 1.58s
 43.470 N ± 14.2km 11.124 E ± 4.7km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)
 MD 3.0 (ROM). Felt at Barberino
 di Val d'Elso.

FIR 0.32 17 iPg 24 38.20 0.4
 iSg 24 43.00
 PII 0.50 300 Pd 24 41.60 0.3
 eSg 24 49.10
 PGD 0.59 47 P 24 42.90 -0.3
 eSg 24 50.90
 CRE 0.62 75 P 24 44.00 0.3
 eSg 24 52.80
 SFI 0.69 49 P 24 44.30 -0.5
 eSg 24 53.40
 BDI 0.70 327 P 24 44.80 -0.2
 eSg 24 55.40
 MME 0.79 337 P 24 46.70 0.2
 eSg 24 57.20
 RSM 1.07 64 P 24 51.30 0.2
 BOB 1.77 318 P 25 01.60 -0.4
 S.D. = 0.4 on 9 of 9 obs.

? FEB 17, 1989 23h 48m 07.92 ± 5.77s
 37.628 N ± 43.5km 20.847 E ± 29.4km
 DEPTH = 10.0km (geophysicist)
 IONIAN SEA (399)
 ML 3.2 (ATH).

VLS 0.58 340 ePg 48 20.00 0.2
 eSg 48 29.50
 ATH 2.30 81 ePb 48 46.80 0.4
 eSn 49 12.60
 NEO 2.51 47 ePn 48 48.80 -0.6
 KZN 2.77 15 ePn 48 54.50 1.3
 PLG 3.41 36 ePn 49 01.00 -1.2
 OHR 3.48 359 ePn 49 01.50 -1.7
 VAY 3.92 19 ePn 49 11.00 1.6
 S.D. = 1.5 on 7 of 7 obs.

? FEB 18, 1989 00h 19m 51.67 ± 7.15s
 31.660 N ± 16.2km 35.296 E ± 44.7km
 DEPTH = 10.0km (geophysicist)
 DEAD SEA REGION (373)
 MKRJ 0.31 110 Pd 19 58.40 0.2
 MASJ 0.37 79 Pd 19 58.90 -0.3
 KFNJ 0.38 58 Pc 19 59.60 0.1
 SARJ 0.48 43 Pd 20 01.90 0.5
 JARJ 0.80 44 Pd 20 06.80 -0.4
 S.D. = 0.5 on 5 of 5 obs.

& FEB 18, 1989 00h 32m 32.24s
 60.034 N 153.462 W
 DEPTH = 154.0km

SOUTHERN ALASKA (2)
 <AGS-P>.

ILIM 0.26 79 iP 32 52.65 0.8
 eS 33 09.49
 AUL 0.65 179 eP 32 54.59 -0.5
 AUE 0.68 176 eP 32 54.59 -0.7
 AUI 0.70 179 eP 32 54.80 -0.6
 RDT 0.75 44 iP 32 55.11 -0.8
 NNL 1.09 89 eP 32 58.56 0.2
 CNPM 1.24 113 iP 32 58.96 -0.8
 NKA 1.31 56 eP 32 59.39 -1.1
 BRK 1.33 101 eP 32 59.85 -0.8
 SPU 1.34 30 iP 32 59.97 -0.9
 CRP 1.39 27 eP 33 00.81 -0.7
 eS 33 22.70
 CGLM 1.47 29 iP 33 01.21 -1.0
 SVW 1.52 316 eP 33 01.63 -1.0
 SLKM 1.68 72 iP 33 03.28 -1.2
 SEW 2.01 86 eP 33 06.99 -1.1
 PMS 2.27 56 eP 33 09.45 -1.8
 eS 33 38.26
 PTE 2.35 67 eP 33 09.89 -2.2
 PWA 2.39 46 eP 33 10.39 -2.2
 GHO 2.82 50 eP 33 15.28 -2.8
 KNK 2.82 58 eP 33 15.30 -2.7
 KNIM 2.88 81 iP 33 16.83 -1.9
 MTU 2.92 88 eP 33 18.08 -1.2
 SML 3.07 52 iP 33 18.31 -2.9
 GLI 3.27 72 eP 33 21.27 -2.4
 eS 33 58.20
 FID 3.54 75 eP 33 24.94 -2.3
 VZW 3.56 70 eP 33 26.18 -1.4
 VLZ 3.69 70 eP 33 27.77 -1.3
 KLU 3.98 65 eP 33 30.55 -2.5
 TOA 4.11 56 eP 33 32.63 -2.1
 SGAM 4.14 80 eP 33 32.92 -2.2
 30 obs. associated

FEB 18, 1989 00h 49m 41.24 ± 0.21s
 2.424 N ± 3.6km 126.814 E ± 6.6km
 DEPTH = 33.0km (normal)
 5.1mb (19 obs.) 4.9msz (1 obs.)
 MOLUCCA PASSAGE (266)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 11S, 21C
 Centroid Location:
 Origin Time 00:49:45.5 0.9
 Lat 2.68N 0.09 Lon 126.82E 0.13
 Dep 15.0 FIX Half-duration 2.1
 Moment Tensor: Scale 10**17 Nm
 Mrr=0.60 0.10 Mlt=-0.08 0.07
 Mff=-0.52 0.13 Mrt=0.64 0.16
 Mrf=-1.76 0.18 Mtf=-0.06 0.09
 Principal Axes:
 T Val= 2.03 Plg=52 Azm= 65
 N -0.16 5 162
 P -1.87 37 256
 Best Double Couple: Mo=1.9*10**17
 NP1: Strike= 17 Dip=10 Slip= 125
 NP2: 161 82 84

MNI 2.20 244 ePd 50 21.00 4.8X
 eS 50 59.20
 DAV 4.79 345 eP 50 55.00 2.0
 AAI 6.22 167 eP 51 25.00 11.7X
 TSM 8.91 282 eP 51 57.00 6.3X
 TLE 9.96 144 ePc 52 10.00 4.8X
 QCP 13.39 335 eP 52 52.00 0.5
 JAY 14.73 109 ePd 53 15.30 6.2X
 BAG 15.19 337 eP 53 15.00 -0.3
 MTN 15.76 164 eP 53 21.00 -1.6
 e 53 28.00
 TRT 17.36 234 ePd 53 46.80 4.1X
 KNA 18.16 174 eP 53 53.00 0.3
 GUMO 21.01 57 eP 54 22.50 -2.1
 WB5 23.37 162 eP 54 47.20 -0.8
 eS 58 57.00
 QIZ 23.42 316 eP 54 49.00 0.6
 N 13s 0.80um
 eS 58 53.00
 sS 59 16.00
 SS 59 47.00
 WRA 23.42 162 Pc 54 49.70 1.2
 0.4s 13.90nm 4.8mb
 GZH 24.34 329 Pc 54 57.80 0.5

18d 00h

MBL 24.41 196 eP 55 00.00 1.9
 QIS 26.06 152 eP 55 13.00 -0.6
 0.6s 45.00nm 5.2mb
 ASPA 26.84 165 ePd 55 20.40 -0.4
 0.5s 38.00nm 5.3mb
 PSI 27.86 271 ePc 55 29.40 -0.8
 WARB 28.44 180 eP 55 28.00 -7.2X
 LOE 28.78 303 eP 55 38.00 -0.4
 CTA 29.40 140 eP 55 45.00 1.0
 MEKA 29.96 195 eP 55 49.00 0.1
 0.3s 10.00nm 5.1mb
 WHN 30.36 338 eP 55 53.00 0.7
 Z 26s 2.95um 4.8MsZ
 GYA 30.75 323 eP 55 56.00 0.0
 CHG 31.78 303 iPd 56 05.00 -0.1
 0.8s 15.30nm 4.9mb
 KMI 32.37 316 Pc 56 11.00 0.7
 pP 56 26.50 63kmX
 FORR 33.11 178 iPc 56 15.70 -0.7
 0.3s 38.00nm 5.8mb
 COOL 33.56 189 eP 56 19.00 -1.4
 0.4s 8.00nm 5.0mb
 BAL 34.23 196 eP 56 27.00 0.8
 0.4s 3.00nm 4.6mb
 TIA 34.79 346 P 56 30.00 -1.0
 KLB 34.91 194 eP 56 32.00 0.0
 0.5s 10.00nm 5.0mb
 MAT 35.54 16 eP 56 35.00 -2.4
 1.8s 468.18nm 6.1mb
 Z 22s 2.22um 4.9MsZ
 (S) 02 08.00
 MUN 35.66 196 eP 56 39.00 0.6
 RMO 35.71 145 eP 56 44.00 5.1X
 CD2 35.75 325 P 56 38.40 -0.8
 NWA0 36.31 194 eP 56 44.00 0.2
 0.5s 8.00nm 4.9mb
 STK 36.89 159 iPd 56 48.50 -0.2
 0.8s 63.00nm 5.5mb
 RKG 37.45 193 eP 56 59.50 6.1X
 TIY 37.52 341 P 56 52.90 -1.2
 N 25s 3.90um
 S 02 41.00
 CMS 38.26 153 eP 57 00.00 -0.3
 BJI 38.67 347 eP 57 03.50 0.0
 Z 24s 0.65um 4.4MsZ
 eS 02 54.00
 BRS 38.79 142 iPd 57 04.60 -0.2
 ADE 38.83 164 eP 57 05.00 -0.1
 SNY 39.34 356 eP 57 09.50 0.4
 Z 28s 1.30um 4.6MsZ
 N 26s 1.20um
 E 28s 1.00um
 S 03 08.00
 LZH 39.67 330 eP 57 12.00 -0.2
 2.0s 110.00nm 5.3mb
 Z 27s 2.40um 4.9MsZ
 i 57 34.00
 COO 40.61 146 eP 57 20.00 0.2
 HHC 40.66 342 eP 57 20.00 -0.2
 BTO 40.93 340 eP 57 22.80 0.4
 MDJ 42.09 3 Pc 57 32.50 0.8
 Z 30s 1.60um 4.7MsZ
 S 03 45.00
 CAN 42.91 153 eP 57 39.70 1.1
 LSA 43.37 312 P 57 43.70 0.8
 S 04 08.00
 GTA 44.26 330 P 57 49.40 -0.2
 E 22s 2.00um
 PP 59 34.70
 KOD 49.60 281 eP 58 31.60 -0.6
 HYB 49.64 291 iPc 58 31.80 -0.4
 GBA 50.04 286 Pd 58 32.90 -2.2
 1.0s 17.70nm 5.0mb
 WMO 53.84 326 iPd 59 03.00 -0.3
 Z 24s 1.00um 4.8MsZ
 ScS 08 48.00
 NDI 53.91 304 eP 59 02.00 -2.0
 KSH 58.99 316 eP 59 41.00 0.6
 MAIO 70.37 308 eP 00 54.00 -0.3
 eS 10 04.00
 TAB 81.02 308 eP 01 57.00 2.3
 TTA 82.02 27 eP 02 00.50 1.2
 BRW 83.38 18 eP 02 07.80 1.7
 IMA 83.54 24 eP 02 08.60 1.4
 1.2s 43.00nm 5.5mb

PMR 85.04 29 eP 02 14.90 0.3
 1.0s 35.00nm 5.5mb
 INK 91.34 22 eP 02 44.00 -0.6
 BBTk 91.58 310 eP 02 47.00 0.5
 SOD 91.70 338 eP 02 46.00 -0.3
 KJF 91.80 334 eP 02 47.00 0.2
 SUF 92.75 333 eP 02 51.00 -0.2
 MBC 93.20 13 eP 02 53.00 -0.1
 VRI 95.29 316 eP 03 04.50 1.2
 MLR 95.89 316 eP 03 06.00 -0.2
 DAG 98.57 352 iPc 03 16.20 -1.3
 1.0s 9.00nm 5.3mb
 SLL 99.25 333 ePKP 03 13.80 -7.1X
 0.4s 1.30nm 4.8mb
 Z 24s 0.58um 5.0MsZ
 NB2 99.99 334 P 03 23.00 -1.3
 0.9s 2.70nm 4.8mb
 PEL 145.32 154 iPKP 09 18.00 0.0
 CNCB 159.60 135 ePKP 09 41.00 1.7
 LPB 159.71 135 ePKP 09 39.00 -0.2
 ZOBO 159.86 134 PKP 09 22.00 -17.6X
 S.D. = 1.0 on 70 of 81 obs.
 FEB 18, 1989 00h 58m 24.06 ± 0.86s
 33.122 S ± 9.9km 70.143 W ± 7.8km
 DEPTH = 123.5 ± 9.4 km
 CHILE-ARGENTINA BORDER REGION (127)
 FCH 0.24 211 iPd 58 41.50 -0.5
 PEL 0.46 267 iPc 58 42.50 0.0
 SAN 0.55 233 iPd 58 43.00 0.0
 iS 58 56.50
 JACH 0.58 319 iPc 58 42.70 -0.6
 PCH 0.59 212 iPd 58 43.50 0.2
 iS 58 58.00
 ROCH 0.74 281 iP 58 44.40 -0.3
 TACH 0.85 231 iPd 58 45.50 0.2
 CHCH 0.91 208 iPd 58 46.50 0.6
 iS 59 03.00
 MDZ 1.11 78 iP 58 47.60 -0.3
 iS 59 05.70
 LCCH 1.25 253 iPc 58 49.50 0.3
 iS 59 05.80
 LNV 1.35 232 iPc 58 50.00 -0.3
 iS 59 09.00
 RTCV 1.85 48 iPc 58 56.40 0.1
 (S) 59 21.00
 RTCB 1.99 35 iPd 58 58.50 0.4
 S 59 24.00
 ZON 2.00 39 iPd 58 58.00 -0.2
 eS 59 23.00
 CFA 2.21 47 iPd 59 00.70 -0.1
 RTLL 2.28 39 iPd 59 01.80 0.0
 S 59 29.50
 RTRS 3.00 11 iPd 59 12.20 1.1
 CNCB 16.36 7 P 02 10.00 1.6
 LPB 16.62 7 (P) 02 11.00 -0.5
 ZOBO 16.88 7 (P) 02 13.00 -1.8
 S.D. = 0.7 on 20 of 20 obs.
 FEB 18, 1989 00h 59m 24.68 ± 0.68s
 2.460 N ± 10.7km 127.000 E ± 13.2km
 DEPTH = 33.0km (normal)
 4.6mb (3 obs.)
 MOLUCCA PASSAGE (266)
 MNI 2.38 245 iPc 00 04.60 2.3
 eS 00 38.00
 MTN 15.75 165 eP 03 09.00 3.2X
 WB5 23.35 162 eP 04 31.00 -0.2
 WRA 23.40 162 Pd 04 31.60 -0.1
 0.3s 2.90nm 4.3mb
 OIS 26.00 152 iPc 04 56.70 0.2
 ASPA 26.82 166 eP 05 04.10 0.0
 WARB 28.48 181 eP 05 11.30 -7.7X
 FORR 33.14 178 eP 05 59.00 -1.1
 STK 36.86 159 eP 06 32.00 0.1
 BJI 38.68 347 eP 06 47.50 0.5
 HYB 49.80 291 eP 08 15.00 -1.8
 GBA 50.21 286 P 08 18.00 -1.8
 BRW 83.28 18 eP 11 52.00 3.0X
 IMA 83.43 24 eP 11 51.60 1.5
 0.8s 4.30nm 4.6mb
 PMR 84.92 29 eP 11 57.90 0.5
 0.9s 6.20nm 4.8mb
 S.D. = 1.3 on 12 of 15 obs.

FEB 18, 1989 01h 11m 16.45 ± 0.40s
 2.512 N ± 6.3km 126.961 E ± 11.4km
 DEPTH = 33.0km (normal)
 4.9mb (7 obs.)
 MOLUCCA PASSAGE (266)
 MNI 2.37 243 iPc 11 56.70 2.8
 eS 12 29.00
 MTN 15.81 165 eP 15 03.00 4.6X
 KNA 18.23 174 eP 15 29.00 0.2
 WB5 23.41 162 eP 16 22.50 -1.1
 WRA 23.46 162 Pd 16 23.60 -0.5
 0.7s 12.80nm 4.5mb
 OIS 26.06 152 eP 16 48.00 -0.9
 ASPA 26.88 166 eP 16 55.70 -0.7
 WARB 28.53 181 eP 17 03.40 -7.9X
 FORR 33.19 178 eP 17 51.00 -1.3
 0.4s 23.00nm 5.4mb
 COOL 33.67 189 eP 17 57.00 0.4
 KLB 35.03 194 eP 18 08.00 -0.2
 0.5s 4.00nm 4.6mb
 CD2 35.76 325 eP 18 13.30 -1.2
 NWA0 36.43 194 eP 18 21.00 1.0
 STK 36.92 159 eP 18 24.00 -0.2
 TIY 37.48 341 eP 18 29.00 0.0
 Z 30s 0.80um 4.3MsZ
 BJI 38.62 347 eP 18 38.50 0.2
 MDJ 41.99 3 Pc 19 07.20 1.1
 CAN 42.93 153 eP 19 14.20 0.2
 GTA 44.25 330 eP 19 23.80 -1.0
 PP 21 10.00
 HYB 49.75 291 eP 20 07.00 -1.2
 GBA 50.15 286 P 20 10.00 -1.2
 WMO 53.85 325 P 20 37.90 -0.7
 MAIO 70.43 308 eP 22 30.00 0.1
 BRW 83.25 18 eP 23 42.70 2.1
 IMA 83.40 24 ePc 23 43.40 1.7
 0.8s 9.40nm 5.0mb
 PMR 84.90 29 eP 23 49.90 0.8
 0.8s 8.60nm 5.0mb
 KJF 91.78 334 eP 24 21.00 -0.9
 SUF 92.73 333 iP 24 25.50 -0.8
 0.6s 3.10nm 4.9mb
 MBC 93.08 13 eP 24 28.00 0.2
 NB2 99.97 334 P 24 57.80 -1.7
 0.7s 1.80nm 4.7mb
 CNCB 159.56 135 PKP 31 17.00 2.6
 LPB 159.66 134 (PKP) 31 10.00 -4.4X
 S.D. = 1.2 on 29 of 32 obs.
 FEB 18, 1989 02h 42m 40.39 ± 0.61s
 31.872 S ± 15.3km 178.470 W ± 12.0km
 DEPTH = 33.0km (normal)
 KERMADEC ISLANDS REGION (177)
 RAO 2.65 10 iP 43 20.60 -1.2
 eS 43 50.80
 KRP 7.79 218 P 44 33.00 -1.2
 BRS 25.35 273 Pc 48 12.00 5.9X
 i 48 14.70
 i 48 27.00
 BWA 27.77 256 eP 48 29.00 0.7
 CTA 33.67 282 iPc 49 21.90 1.4
 0.9s 58.82nm 5.5mb X
 WRA 43.77 274 Pc 50 42.90 -1.8
 0.9s 28.40nm 5.1mb X
 WB5 43.77 274 iPd 50 44.80 0.0
 FORR 45.24 257 eP 50 56.40 -0.1
 MTN 49.83 280 eP 51 31.00 -1.5
 SPA 58.30 180 e(P) 52 41.80 7.6X
 1.0s 19.00nm 5.1mb X
 PRS 86.37 43 eP 55 21.20 0.7
 e 55 35.60
 PRI 86.65 43 ePc 55 23.30 1.3
 e 55 37.30
 MHC 86.92 42 eP 55 23.80 0.5
 e 55 38.30
 FRI 87.79 43 ePc 55 27.90 0.6
 e 55 42.20
 CMB 88.12 42 ePc 55 29.10 0.2
 e 55 43.60
 ORV 88.55 40 e(P) 55 31.00 0.1

| | | | | |
|------|--------|------------|----------|--------|
| P | 78.89 | 48 eP | 31 25.00 | -0.7 |
| FRI | 79.03 | 44 ePd | 31 25.80 | -0.3 |
| CMB | 79.21 | 43 ePd | 31 27.00 | -0.1 |
| ORV | 79.42 | 41 ePd | 31 28.30 | 0.2 |
| WDC | 79.42 | 40 ePd | 31 28.40 | 0.3 |
| TPC | 79.87 | 48 eP | 31 31.00 | 0.4 |
| GLA | 80.16 | 49 eP | 31 33.00 | 0.8 |
| KVN | 81.25 | 43 P | 31 37.20 | -0.7 |
| PMR | 84.83 | 13 P | 31 54.30 | -0.6 |
| | 0.5 s | 3.72nm | | 4.3mb |
| PNT | 86.41 | 34 eP | 32 03.00 | 0.2 |
| | 0.9 s | 18.00nm | | 4.8mb |
| ALO | 87.14 | 51 eP | 32 06.50 | -0.4 |
| | 0.9 s | 5.88nm | | 4.3mb |
| FBA | 88.06 | 12 P | 32 10.00 | -0.3 |
| | 0.9 s | 57.50nm | | 5.4mb |
| LRM | 88.46 | 39 eP | 32 12.90 | 0.0 |
| BW06 | 88.71 | 43 P | 32 14.30 | 0.2 |
| | 0.6 s | 6.05nm | | 4.6mb |
| GOL | 90.06 | 47 P | 32 20.00 | -0.4 |
| | 0.9 s | 4.55nm | | 4.4mb |
| GLD | 90.18 | 47 P | 32 20.00 | -0.9 |
| | 1.2 s | 18.18nm | | 4.9mb |
| CHG | 90.41 | 290 iPd | 32 24.00 | 1.9 |
| | 0.8 s | 14.93nm | | 5.0mb |
| SES | 91.63 | 36 ePd | 32 27.00 | -0.1 |
| EDM | 91.87 | 33 ePd | 32 27.40 | -0.7 |
| MEO | 92.94 | 54 eP | 32 32.50 | -1.0 |
| | 0.6 s | 1.50nm | | 4.2mb |
| INK | 94.08 | 15 eP | 32 36.50 | -1.4 |
| YKA | 96.29 | 25 P | 32 47.80 | -0.2 |
| SUF | 134.61 | 345 iPKP | 38 34.50 | -0.6 |
| HFS | 139.44 | 351 ePKP | 38 31.80 | -12.3X |
| | 0.4 s | 4.40nm | | |
| EKA | 144.85 | 5 PKPc | 38 53.50 | -0.2X |
| | 2.1 s | 145.30nm | | |
| CLI | 146.83 | 328 ePKPd | 38 59.50 | 2.3 |
| KRA | 147.21 | 339 ePKP | 39 00.00 | 2.3 |
| WIT | 147.43 | 355 ePKP | 39 01.50 | 3.6X |
| HRI | 147.61 | 300 iPKPd | 39 02.70 | 3.7X |
| KSP | 147.63 | 343 iPKPd | 39 01.40 | 3.1X |
| | 0.7 s | 43.00nm | | |
| CLL | 147.98 | 347 iPKPd | 39 01.90 | 3.0X |
| | 1.0 s | 60.00nm | | |
| BRG | 148.18 | 346 iPKPd | 39 02.70 | 3.5X |
| | 1.3 s | 36.00nm | | |
| WTS | 148.23 | 355 iPKPc | 39 02.70 | 3.5X |
| | 0.9 s | 57.00nm | | |
| MLR | 148.23 | 328 ePKPd | 39 04.00 | 4.4X |
| DSI | 148.30 | 297 iPKPd | 39 04.00 | 4.0X |
| PRU | 148.86 | 345 PKPd | 39 04.50 | 4.2X |
| | | e | 39 10.60 | |
| MOX | 148.89 | 348 iPKPd | 39 04.50 | 4.2X |
| | 1.4 s | 34.00nm | | |
| MBH | 149.08 | 294 iPKPd | 39 06.00 | 4.8X |
| ENN | 149.52 | 355 ePKP | 39 06.00 | 4.8X |
| | 0.9 s | 36.00nm | | |
| MEM | 149.67 | 355 iPKPd | 39 06.30 | 4.9X |
| SNF | 149.87 | 357 PKPd | 39 06.50 | 4.8X |
| GRF | 149.87 | 348 ePKP | 39 07.40 | 5.6X |
| | | e | 39 14.80 | |
| KHC | 149.90 | 345 PKP | 39 01.50 | -0.4 |
| | | i | 39 07.20 | |
| | | i | 39 15.40 | |
| BZS | 150.19 | 332 ePKP | 39 08.00 | 5.6X |
| DOU | 150.27 | 357 PKPd | 39 07.60 | 5.2X |
| | | e | 40 46.70 | |
| WLF | 150.60 | 355 iPKPd | 39 08.80 | 6.0X |
| FLN | 151.58 | 4 ePKP | 39 10.40 | 6.0X |
| | 0.6 s | 16.20nm | | |
| CDF | 151.72 | 353 ePKP | 39 11.00 | 6.3X |
| | 0.5 s | 5.80nm | | |
| LDF | 151.77 | 3 ePKP | 39 10.80 | 6.2X |
| | 0.5 s | 11.60nm | | |
| KBA | 151.86 | 344 i(PKP) | 39 10.50 | 5.4X |
| | 0.7 s | 4.10nm | | |
| GRR | 151.93 | 4 ePKP | 39 11.30 | 6.4X |
| | 0.4 s | 9.10nm | | |
| HAU | 152.22 | 354 ePKP | 39 12.10 | 6.7X |
| | 0.4 s | 3.40nm | | |
| LPF | 152.27 | 5 ePKP | 39 12.30 | 7.0X |
| | 0.5 s | 18.90nm | | |
| BSF | 152.35 | 353 ePKP | 39 12.10 | 6.4X |
| | 0.7 s | 6.60nm | | |
| TRI | 153.00 | 342 ePKP | 39 13.30 | 6.9X |
| | | </ | | |

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|------------------------------|------------|--------------------|---------------|----|--------|-------|------|------------------|------------------|------------------|------------------|-------------|-------|------------------|----------------|------------------|----------------|-------|
| ALE | 89.36 | 357 | eP | 14 | 41.00 | 1.2 | WARB | 18.93 | 188 | eP | 25 | 44.00 | -7.5X | iSg | 03 | 06.00 | | |
| | 1.0s | 33.00nm | | | 5.6mb | | FORR | 23.41 | 183 | eP | 26 | 38.20 | 1.7 | FRF | 4.34 | 282 | Pn | |
| ETOR | 89.72 | 311 | e(P) | 14 | 43.50 | 1.1 | CNCB | 150.34 | 144 | PKP | 41 | 15.00 | 1.5 | LMR | 4.42 | 279 | Pn | |
| GUD | 91.33 | 311 | e(P) | 14 | 48.00 | -1.8 | LPB | 150.49 | 144 | ePKP | 41 | 12.00 | -1.5 | LRG | 4.54 | 281 | Pn | |
| EBAN | 91.52 | 309 | e(P) | 14 | 51.00 | 0.4 | ZOBO | 150.68 | 143 | PKP | 41 | 18.00 | 4.0X | KHC | 6.39 | 6 | eP | |
| APHE | 91.67 | 307 | iP | 14 | 52.80 | 1.3 | | S.D. = 1.6 | on | 9 of 13 obs. | | | | | e | 03 | 57.00 | |
| IMA | 91.87 | 22 | eP | 14 | 53.70 | 1.9 | | | | | | | | CDF | 6.71 | 329 | Pn | |
| | 1.4s | 87.20nm | | | 6.0mb | | | | | | | | | HAU | 6.78 | 323 | Pn | |
| ATEJ | 91.93 | 307 | eP | 14 | 54.00 | 1.3 | | % FEB 18, 1989 | 11h | 56m | 54.71±0.84s | | | | | | | |
| TTA | 92.12 | 26 | eP | 14 | 54.30 | 1.3 | | 40.656 N ± 6.3km | | 22.681 E ± 6.8km | | | | | | | | |
| EHOR | 92.72 | 309 | e(P) | 14 | 56.00 | -0.1 | | DEPTH = 10.0km | (geophysicist) | | | | | | | | | |
| MBC | 94.02 | 8 | eP | 15 | 02.00 | 0.6 | | GREECE | | (364) | | | | % FEB 18, 1989 | 12h | 40m | 48.76±0.82s | |
| FBA | 94.59 | 22 | eP | 15 | 05.00 | 0.8 | | | | | | | | 39.107 N ± 6.8km | | 27.638 E ± 8.5km | | |
| | 1.0s | 0.30nm | | | 3.7mb | X | | THE | 0.22 | 96 | eP | 56 | 59.50 | 0.1 | | DEPTH = 10.0km | (geophysicist) | |
| PMR | 95.61 | 25 | eP | 15 | 08.30 | -0.6 | | GRG | 0.37 | 325 | eP | 57 | 02.40 | 0.1 | | | | (366) |
| | 1.3s | 42.50nm | | | 5.7mb | | | | | | | | | | | | | |
| INK | 97.24 | 16 | eP | 15 | 16.00 | -0.2 | | KNT | 0.53 | 18 | eP | 57 | 05.30 | -0.2 | | | | |
| YKA | 106.68 | 13 | PKP | 20 | 22.70 | 13.9X | | | | | | | | | | | | |
| EDM | 115.07 | 18 | ePKP | 20 | 25.50 | 0.3 | | SOH | 0.54 | 72 | eP | 57 | 05.60 | 0.0 | | | | |
| FFC | 116.44 | 10 | ePKP | 20 | 28.00 | 0.3 | | | | | | | | | | | | |
| | 0.9s | 9.00nm | | | | | | LIT | 0.57 | 195 | eP | 57 | 06.30 | -0.1 | | | | |
| SES | 118.23 | 18 | ePKP | 20 | 32.00 | 0.7 | | | | | | | | | | | | |
| LRM | 121.73 | 22 | ePKP | 20 | 42.40 | 4.0X | | | S.D. = 0.2 | on | 5 of 5 obs. | | | | | | | |
| KVN | 124.78 | 30 | PKP | 20 | 46.00 | 1.6 | | | FEB 18, 1989 | 12h | 01m | 06.72±0.28s | | | | | | |
| BW06 | 125.40 | 21 | PKP | 20 | 46.00 | 0.4 | | | 42.783 N ± 2.6km | | 12.487 E ± 2.8km | | | | | | | |
| GOL | 129.58 | 20 | PKP | 20 | 53.00 | -0.7 | | | DEPTH = 10.0km | (geophysicist) | | | | | | | | |
| ALO | 133.42 | 23 | ePKP | 21 | 02.00 | 0.9 | | | CENTRAL ITALY | | (381) | | | ? FEB 18, 1989 | 12h | 41m | 17.86±7.17s | |
| | Z 20s | 0.35um | | | 5.1msz | | | | MD 3.6 (TRI). | | | | | 19.727 N ±56.6km | | 66.433 W ±16.3km | | |
| LNO | 135.71 | 12 | e(PKP) | 21 | 07.30 | 2.3 | | | | | | | | DEPTH = 10.0km | (geophysicist) | | | |
| TUL | 135.71 | 12 | ePKP | 21 | 05.70 | 0.6 | | | ASS | 0.31 | 24 | Pc | 01 | 13.70 | 0.4 | | | |
| | 1.0s | 4.00nm | | | | | | | MNS | 0.42 | 160 | Pc | 01 | 15.20 | -0.2 | | | |
| | Z 21s | 1.16um | | | 5.6msz | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| ATB | 146.23 | 275 | e(PKP) | 21 | 22.00 | -2.4 | | CIO | 0.63 | 49 | iPgc | 01 | 19.26 | -0.3 | | | | |
| PEL | 150.96 | 207 | ePKP | 21 | 50.00 | 18.6X | | ARV | 0.79 | 25 | Pc | 01 | 22.10 | 0.0 | | | | |
| | S.D. = 1.5 | on 178 of 208 obs. | | | | | | | | | | | | | | | | |
| | | | | | | | | ALP | 0.80 | 90 | iPgc | 01 | 21.66 | -0.7 | | | | |
| | | | | | | | | | | | | | | | | | | |
| * FEB 18, 1989 | 11h | 12m | 13.54±0.78s | | | | | AQU | 0.80 | 122 | P | 01 | 21.90 | -0.4 | | | | |
| 31.276 S ± 8.4km | | 69.331 W ±10.1km | | | | | | | | | | | | | | | | |
| DEPTH = 33.0km (normal) | | | | | | | | SSO | 0.85 | 53 | e(Pg) | 01 | 23.74 | 0.6 | | | | |
| SAN JUAN PROVINCE, ARGENTINA | | | | | | (137) | | | | | | | | | | | | |
| | | | | | | | | RMP | 0.98 | 171 | P | 01 | 25.00 | -0.4 | | | | |
| ZON | 0.62 | 116 | iPd | 12 | 27.70 | 1.8 | | | | | | | | | | | | |
| CFA | 0.99 | 110 | iPd | 12 | 30.20 | -1.0 | | | | | | | | | | | | |
| JACH | 1.76 | 217 | iPd | 12 | 44.00 | 1.7 | | | | | | | | | | | | |
| | | | iS | 13 | 08.00 | | | | | | | | | | | | | |
| PEL | 2.19 | 211 | iPc | 12 | 48.50 | 0.2 | | | | | | | | | | | | |
| | | | iS | 13 | 59.30 | | | | | | | | | | | | | |
| FCH | 2.20 | 201 | iPd | 12 | 48.50 | -0.3 | | | | | | | | | | | | |
| | | | iS | 13 | 27.00 | | | | | | | | | | | | | |
| ROCH | 2.21 | 220 | iP | 12 | 50.50 | 1.7 | | | | | | | | | | | | |
| PCH | 2.54 | 203 | iPc | 12 | 53.20 | -0.3 | | | | | | | | | | | | |
| | | | iS | 13 | 23.00 | | | | | | | | | | | | | |
| TACH | 2.73 | 209 | eP | 12 | 54.50 | -1.5 | | | | | | | | | | | | |
| | | | iS | 13 | 27.00 | | | | | | | | | | | | | |
| CHCH | 2.87 | 202 | iPc | 12 | 55.70 | -2.4 | | | | | | | | | | | | |
| | | | iS | 13 | 25.00 | | | | | | | | | | | | | |
| LCCH | 2.90 | 220 | eP | 12 | 59.00 | 0.6 | | | | | | | | | | | | |
| LNV | 3.20 | 213 | eP | 12 | 59.20 | -3.4X | | | | | | | | | | | | |
| CNCB | 14.45 | 5 | P | 15 | 38.00 | -0.3 | | | | | | | | | | | | |
| ZOBO | 14.98 | 4 | P | 15 | 45.00 | -0.2 | | | | | | | | | | | | |
| | S.D. = 1.4 | on | 12 of 13 obs. | | | | | | | | | | | | | | | |
| ? FEB 18, 1989 | 11h | 21m | 34.42±2.38s | | | | | BOB | 2.96 | 313 | P | 01 | 54.20 | -0.5 | | | | |
| 7.363 S ±16.3km | | 129.614 E ±22.9km | | | | | | TRI | 3.07 | 17 | ePn | 01 | 55.50 | -0.5 | | | | |
| DEPTH = 85.5 ± 20.3 km | | | | | | | | | | | | | | | | | | |
| 4.3mb (2 obs.) | | | | | | | | | | | | | | | | | | |
| BANDA SEA | | | | | | (280) | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| TLE | 3.56 | 61 | iPd | 22 | 28.50 | 0.1 | | | | | | | | | | | | |
| | | | iS | 23 | 09.50 | | | | | | | | | | | | | |
| MTN | 5.65 | 165 | iPc | 22 | 58.80 | 1.2 | | | | | | | | | | | | |
| | | | e | 23 | 08.00 | | | | | | | | | | | | | |
| | | | eS | 23 | 58.00 | | | | | | | | | | | | | |
| KNA | 8.38 | 186 | eP | 23 | 35.00 | -0.2 | | | | | | | | | | | | |
| | | | eS | 25 | 03.00 | | | | | | | | | | | | | |
| WB5 | 13.27 | 160 | iPc | 24 | 37.50 | -3.2X | | | | | | | | | | | | |
| | | | eS | 26 | 58.20 | | | | | | | | | | | | | |
| WRA | 13.32 | 160 | Pc | 24 | 37.90 | -3.5X | | | | | | | | | | | | |
| | 0.4s | 3.60nm | | | | | | | | | | | | | | | | |
| QIS | 16.30 | 145 | eP | 25 | 18.00 | -1.5 | | | | | | | | | | | | |
| | | | eS | 28 | 08.00 | | | | | | | | | | | | | |
| MBL | 16.66 | 214 | eP | 25 | 23.00 | -1.0 | | | | | | | | | | | | |
| ASPA | 16.73 | 166 | ePc | 25 | 24.60 | -0.3 | | | | | | | | | | | | |
| | 0.6s | 13.00nm | | | | | | | | | | | | | | | | |
| | | | eS | 28 | 16.70 | | | | | | | | | | | | | |

18d 13h

GYA 48.89 63 P 22 22.00 -0.4
 LZH 49.11 50 e(P) 22 24.50 0.4
 TRI 51.92 322 eP 22 43.10 -2.1
 XAN 52.46 55 P 22 48.40 -1.1
 KHC 53.77 325 eP 22 57.50 -1.3
 BTO 55.20 47 eP 23 08.60 -1.0
 TIY 56.16 51 eP 23 16.50 -0.1

E 15s 1.10um
 WHN 56.24 60 eP 23 17.00 -0.1
 HHC 56.39 47 eP 23 19.00 0.8
 TIA 59.49 54 eP 23 45.10 5.1X
 BJI 59.56 49 eP 23 40.00 -0.3
 APO 60.12 337 eP 23 40.60 -3.3X

0.6s 1.30nm 4.2mb
 KIC 62.04 272 Pc 23 58.20 0.5
 1.2s 59.00nm 5.7mb
 TIC 62.28 272 Pc 23 59.76 0.5
 1.0s 42.00nm 5.6mb

LIC 62.34 272 Pc 24 00.16 0.5
 1.3s 131.00nm 6.0mb
 CN2 67.07 47 eP 24 29.20 -0.7
 DAG 77.44 347 iPd 25 31.50 0.8
 1.1s 11.39nm 4.9mb

S.D. = 1.4 on 29 of 35 obs.

FEB 18, 1989 13h 16m 56.90 ± 0.39s
 9.824 N ± 8.5km 57.904 E ± 6.2km
 DEPTH = 10.0km (geophysicist)
 4.8mb (11 obs.) 4.9Msz (4 obs.)

CARLSBERG RIDGE (421)
 CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 14S, 23C

Centroid Location:

Origin Time 13:17: 3.6 0.9

Lot 9.89N FIX; Lon 57.87E FIX

Dep 15.0 FIX Half-duration 1.9

Moment Tensor: Scale 10**16 Nm

Mrr=-7.82 0.51 Mtt= 6.44 0.78

Mff= 1.39 0.87 Mrt= 2.91 2.38

Mrf= 4.85 2.20 Mtf=-4.52 0.57

Principal Axes:

T Val= 9.09 Plg= 0 Azm= 30

N 1.99 30 300

P -11.08 60 121

Best Double Couple: Mo=1.0*10**17

NP1: Strike=147 Dip=52 Slip=-51

NP2: 274 53 -129

KOD 19.27 87 eP 21 26.00 1.0
 GBA 19.49 77 Pc 21 26.80 -0.4
 0.7s 9.50nm 4.2mb

HYB 21.43 67 eP 21 48.00 0.5
 QUE 21.95 21 iPc 21 54.00 1.2
 NAI 23.73 243 iPc 22 13.00 2.6
 NDI 26.09 41 eP 22 23.00 -9.6X
 MAIO 26.40 3 iPc 22 38.20 2.7
 AVY 30.27 199 iPc 23 11.06 0.3
 BBTK 37.34 327 iPc+ 24 13.50 2.1
 e 24 28.00

KMZ 39.35 235 iP 24 29.80 1.2
 BNG 39.40 265 iPd 24 28.90 0.0
 0.7s 9.00nm 4.5mb

CHG 40.67 73 eP 24 37.10
 PSI 41.35 97 ePc 24 46.50 1.5
 WMO 42.60 32 eP 24 59.50 4.5X

Z 20s 1.50um 4.9Msz
 PP 26 43.00
 VRI 44.73 329 ePd 25 14.00 1.9

MLR 44.88 328 ePd 25 15.00 1.5
 e 50 22.00
 SLR 45.61 219 iPd 25 19.50 0.0

KSR 46.57 220 eP 25 11.00 -16.1X
 CD2 47.42 57 eP 25 32.90 -0.8
 GTA 47.52 45 P 25 35.00 0.5

Z 22s 0.90um 4.7Msz
 E 17s 1.20um
 eS 32 30.00

SWZ 48.49 220 iPd 25 40.50 -1.7
 0.2s 27.78nm 6.0mb X
 GYA 48.89 63 P 25 36.20 -9.1X

S 32 48.00
 LZH 49.12 50 eP 25 46.00 -0.9
 Z 28s 1.80um 4.9Msz X

e(S) 32 56.00
 VBY 50.93 322 eP 26 00.90 0.5

TRI 51.94 322 eP 26 07.10 -1.0
 VOY 52.02 322 eP 26 08.00 -0.8
 XAN 52.46 54 P 26 11.60 -0.7
 KHC 53.78 325 P 26 20.50 -1.3
 BTO 55.20 47 P 26 33.00 0.5

N 18s 1.20um
 E 18s 2.00um
 sP 26 43.00
 eS 34 20.00

WHN 56.24 60 eP 26 35.50 -4.5X
 Z 24s 14.80um 6.0Msz X
 S 34 32.00

LPG 56.27 319 eP 26 22.70 -17.6X
 0.7s 6.60nm
 CDF 57.12 322 eP 26 45.00 -1.1

1.0s 12.00nm 4.9mb
 LBF 58.61 320 eP 26 54.50 -2.0
 1.0s 8.00nm 4.8mb

LOR 58.79 320 eP 26 56.50 -1.2
 0.6s 3.60nm 4.7mb
 SSF 58.94 320 eP 26 57.60 -1.1

0.7s 3.30nm 4.6mb
 BJI 59.57 49 eP 27 03.00 -0.2
 Z 26s 1.20um 4.9Msz X

N 16s 0.75um
 eS 35 12.00
 HFS 59.98 336 eP 27 03.80 -1.9

0.5s 1.00nm 4.2mb
 Z 19s 0.75um 4.8Msz
 LR 52 01.00

KIC 62.05 272 Pc 27 20.70 0.2
 1.1s 52.00nm 5.6mb
 TIC 62.28 272 Pc 27 22.24 0.2

0.7s 26.00nm 5.5mb
 LIC 62.35 272 Pc 27 22.66 0.2
 0.7s 30.00nm 5.6mb

CN2 67.08 47 eP 27 52.00 -0.7
 Z 22s 1.90um 5.3Msz
 E 14s 0.60um

eS 36 42.00
 MDJ 70.14 46 eP 28 10.00 -1.6
 Z 30s 1.60um 5.1Msz X

S 37 18.00
 SS 41 44.00
 WRA 80.80 112 P 29 13.00 0.2

1.6s 18.00nm 4.8mb
 WB5 80.81 112 eP 29 11.70 -1.1
 ASPA 81.32 116 eP 29 14.20 -1.3

S.D. = 1.3 on 39 of 45 obs.

* FEB 18, 1989 13h 42m 23.04 ± 0.86s
 11.496 N ± 13.8km 86.514 W ± 17.5km
 DEPTH = 33.0km (normal)

NEAR COAST OF NICARAGUA (74)
 RIN3 1.32 122 eP 42 45.60 0.3
 S 43 08.40

JUD 1.63 144 ePd 42 50.10 0.2
 S 43 16.20
 JTS 1.95 128 eP 42 54.10 -0.3

S 43 23.70
 CAO 2.26 142 ePc 42 58.50 -0.3
 S 43 31.30

EPA 2.41 128 iPd 43 01.70 0.7
 S 43 36.10
 PTCR 2.66 129 eP 43 05.40 0.7

HDC2 2.76 122 eP 43 06.30 0.2
 S 44 45.50
 SJS 2.87 122 iPd 43 07.20 -0.4

S 43 58.60
 S 43 58.60
 IRZ2 2.99 120 eP 43 09.40 -0.1

LCR2 3.02 125 ePc 43 09.50 -0.4
 OCR 3.08 131 eP 43 10.00 -0.6
 OPS 3.13 131 eP 43 11.40 0.2

CDM 3.32 125 ePc 43 14.30 0.0
 JCR 3.72 116 eP 42 57.20 -22.4X
 MEO 25.65 337 eP 47 33.80 -17.8X

0.7s 7.00nm
 LNO 25.72 342 eP 47 51.70 -0.3
 TUL 25.72 342 eP 47 52.40 0.3

S.D. = 0.4 on 15 of 17 obs.

* FEB 18, 1989 13h 59m 28.97 ± 0.93s
 7.789 N ± 13.4km 94.239 E ± 10.7km
 DEPTH = 33.0km (normal)
 3.9mb (2 obs.)

NICOBAR ISLANDS REGION (704)

PSI 6.88 137 ePc 01 10.40 0.2
 NNT 7.21 48 iPd 01 13.00 -1.8
 IPM 7.46 115 ePd 01 13.00 -5.3X

e 02 34.70
 CHG 11.87 22 iPd 02 20.80 1.7
 0.6s 9.33nm 5.1mb X

GBA 17.49 291 P 03 32.00 0.0
 0.9s 4.10nm 3.6mb
 HYB 18.04 304 eP 03 38.00 -0.9

KJF 72.91 335 eP 10 58.00 1.5
 SUF 73.15 333 eP 10 58.00 0.1
 SOD 74.32 338 eP 11 04.00 -0.7

SLL 78.79 330 eP 11 26.20 -3.6X
 0.4s 1.10nm 4.2mb
 S.D. = 1.4 on 8 of 10 obs.

& FEB 18, 1989 14h 02m 45.03s
 39.226 N 117.333 W
 DEPTH = 10.0km (geophysicist)

NEVADA (37)
 <REN>. MD 3.3 (REN).

KVN 0.62 254 eP 02 56.40 -1.3
 MNA 1.02 219 eP 03 03.00 -1.4
 TNP 1.15 175 iP 03 06.30 -0.3

HCR 1.21 144 eP 03 07.40 -0.4
 MZP 1.52 181 eP 03 12.50 -0.1
 SVP 1.55 194 eP 03 13.00 0.0

KRNA 1.66 153 eP 03 14.50 0.0
 MGM 1.79 184 eP 03 16.30 -0.1
 BLT 1.98 151 eP 03 18.90 -0.3

9 obs. associated
 * FEB 18, 1989 14h 12m 12.72 ± 1.03s
 16.583 N ± 17.6km 95.383 W ± 9.9km

DEPTH = 74.8 ± 9.4 km
 4.5mb (6 obs.)
 OAXACA, MEXICO (60)

OLX 1.38 291 iPd 12 34.00 -2.8
 SCX 2.64 86 eP 12 56.50 2.6
 IISM 3.05 322 eP 12 59.50 -0.2

TPX 3.44 119 eP 13 03.50 -1.5
 IIT 3.69 311 eP 13 10.00 1.1
 ACX 4.30 274 eP 13 12.00 -5.2X

UNM 4.53 308 (P) 13 37.00 16.3X
 IIC 4.86 311 eP 13 25.50 0.2
 CRX 4.96 305 (P) 13 28.50 1.8

MEO 18.35 352 eP 16 22.90 -0.8
 1.0s 51.90nm 4.7mb
 e 16 25.50

(Lg) 19 41.00
 OLY 19.16 10 P 16 28.00 -5.1X
 TUL 19.25 359 eP 16 33.20 -0.8

0.8s 11.70nm 4.2mb
 Z 19s 0.45um
 i 16 51.70

LR 19 00.00
 LNO 19.26 359 eP 16 32.90 -1.0
 ALO 20.80 334 eP 16 49.00 -1.2

1.0s 14.75nm 4.3mb
 PRM 20.99 31 P 16 51.00 -0.9
 FVM 21.76 11 P 16 54.00 -5.6X

GLA 24.02 317 eP 17 26.00 4.2X
 GOL 24.62 341 P 17 28.50 0.7
 TPC 25.47 317 eP 17 49.00 13.4X

PLM 25.57 315 P 17 37.50 0.9
 TNP 28.76 322 P 18 06.00 0.4
 BW06 28.78 338 P 18 06.00 0.2

KVN 29.92 323 P 18 17.00 1.0
 LRM 32.46 338 eP 18 39.20 1.0
 PNT 38.12 334 eP 19 27.00 0.9

0.7s 4.00nm 4.5mb
 FFC 38.41 354 eP 19 28.00 -0.4
 0.6s 7.00nm 4.8mb

EDM 39.18 343 eP 19 35.00 0.1
 YKA 47.81 348 P 20 44.20 -0.1
 FRB 50.61 15 eP 21 04.00 -1.7

BAO 56.67 122 e(P) 21 40.00 -11.1X
 INK 57.06 344 eP 21 52.00 -1.1
 MBC 60.98 354 eP 22 20.00 0.0

NB2 83.43 28 P 24 34.20 1.2
 0.8s 5.20nm 4.6mb
 GBA 149.18 14 PKP 31 56.00 5.4X

0.3s 0.50nm

S.D. = 1.3 on 26 of 34 obs.

FEB 18, 1989 16h 40m 40.82±0.66s
 55.762 S ±15.9km 29.808 W ±17.7km
 DEPTH = 33.0km (normal)
 5.1mb (4 obs.)

SOUTH SANDWICH ISLANDS REGION (153)

SPA 34.42 180 e(P) 47 28.00 1.1
 1.8s 79.63nm 5.3mb
 VAO 35.10 332 eP 47 32.80 -0.1
 ITA 35.13 336 eP 47 40.90 7.4X
 BAO 42.41 334 eP 48 26.50 -7.4X
 SWZ 48.50 77 eP 49 21.00 -1.3
 0.7s 10.27nm 5.0mb
 ZOBO 49.03 308 iPc 49 26.20 -0.8
 0.9s 17.30nm 5.1mb
 LR 04 16.00
 PRY 49.88 79 eP 49 27.00 -6.0X
 SLR 51.27 79 eP 49 42.00 -1.5
 LIC 65.08 27 P 51 21.20 1.1
 TIC 65.49 27 P 51 24.60 1.9
 BNG 71.87 52 iPc 52 03.80 1.4
 1.2s 21.00nm 5.0mb
 ic 52 10.20
 MSZ 78.82 193 P 52 41.80 0.3
 YKA 134.98 319 PKP 59 56.90 0.3
 GTA 143.21 95 ePKP 00 11.50 -1.1
 XAN 144.33 110 PKP 00 13.20 -1.3
 INK 144.65 321 ePKP 00 12.00 -1.9
 TIY 148.97 110 PKPc 00 25.40 3.4X
 BTO 149.72 103 ePKP 00 25.10 2.0
 TIA 150.26 117 ePKP 00 28.00 4.1X
 BJI 152.66 111 ePKP 00 33.50 6.2X

S.D. = 1.5 on 14 of 20 obs.

FEB 18, 1989 17h 08m 38.59±0.95s
 7.072 S ± 4.6km 146.997 E ± 8.4km
 DEPTH = 21.5 ± 7.3 km
 4.9mb (5 obs.) 4.5MsZ (2 obs.)

EAST PAPUA NEW GUINEA REGION (207)

LAT 0.42 0 iPc 08 47.60 0.4
 PMG 2.33 176 iPd 09 17.50 1.2
 MNDI 3.44 285 eP 09 36.50 4.2X
 RAB 5.89 61 eP 10 06.00 -0.8
 CTA 12.96 183 iPc 11 45.00 0.7
 1.2s 390.63nm 6.4mb X
 iS 14 27.00
 HNR 13.03 101 eP 11 34.00 -11.2X
 QIS 15.20 207 iPd 12 13.10 -0.6
 MTN 16.64 249 eP 12 31.00 -1.3
 e 15 29.00
 WB5 17.67 223 eP 12 44.30 -0.9
 eS 16 11.80
 WRA 17.73 223 Pd 12 45.70 -0.3
 0.9s 22.10nm 4.3mb
 RMQ 19.38 175 eP 13 12.00 5.9X
 KNA 19.83 243 eP 13 09.00 -2.0
 0.6s 100.00nm 5.3mb
 ASPA 20.75 216 eP 13 19.20 -1.4
 0.6s 38.00nm 5.0mb
 eS 17 07.90
 BRS 20.94 165 iPc 13 21.80 -0.8
 i 13 25.00
 i 13 31.60
 eS 17 08.00
 COO 23.83 170 eP 13 52.00 0.8
 CMS 24.31 182 eP 13 57.00 1.2
 BWA 27.25 177 iPd 14 21.70 -1.6
 CAN 28.17 177 eP 14 30.70 -1.0
 IJDJ 43.18 349 P 16 38.80 -0.9
 KAKJ 43.52 352 P 16 41.70 -0.6
 CHJJ 43.54 351 iP+ 16 42.10 -0.5
 MAT 44.16 350 iPc 16 46.40 -1.2
 MTMJ 44.27 349 iP+ 16 47.70 -0.9
 NIJJ 44.71 351 P 16 51.70 -0.3
 QIZ 44.87 306 eP 16 55.00 1.4
 SSE 45.28 328 Pc 16 56.50 -0.1
 0.5s 0.08nm 2.9mb X
 Z 20s 0.50um 4.4MsZ
 YAMJ 45.48 352 eP 16 58.70 0.6
 PPI 46.93 276 e(P) 17 15.00 5.0X
 WHN 48.77 322 eP 17 24.00 0.0
 PSI 48.95 280 eP 17 30.00 4.3X
 LOE 50.91 299 eP 17 42.00 1.4
 TIA 51.38 329 P 17 42.30 -1.7

GYA 51.39 312 P 17 45.60 1.3
 NST 51.62 296 eP 17 49.00 3.0
 KMI 53.65 308 Pc 18 03.00 1.7
 MDJ 53.79 345 eP 18 01.00 -0.7
 CHG 53.90 299 iPd 18 05.00 2.0
 CN2 54.26 341 eP 18 03.40 -1.9
 Z 20s 0.40um 4.5MsZ
 XAN 54.50 321 P 18 06.30 -1.0
 BJI 54.83 331 eP 18 07.50 -2.0
 TIY 54.99 327 eP 18 09.70 -1.1
 Z 30s 0.60um 4.5MsZ X
 CD2 56.02 315 eP 18 18.30 0.0
 HHC 57.74 329 eP 18 29.80 -0.6
 BTO 58.37 327 eP 18 32.50 -2.4
 LZH 59.02 320 eP 18 40.00 0.4
 GTA 63.56 321 P 19 10.00 -0.1
 LSA 64.88 307 P 19 20.20 0.8
 GBA 72.04 287 P 20 09.00 5.5X
 1.2s 9.20nm 4.7mb
 WMQ 73.60 320 iPc 20 13.00 0.7
 NDI 75.94 302 iPc 20 26.00 0.0
 KSH 80.06 312 eP 20 50.80 2.2
 SPA 82.97 180 iPd 21 02.90 -0.5
 0.9s 14.09nm 5.1mb
 i 21 06.90
 QUE 84.99 301 eP 21 15.00 0.7
 MAIO 92.13 306 eP 21 49.00 0.9
 YKA 100.11 28 Pd diff 22 25.40 1.6
 BNG 128.66 270 ePKPd 27 48.10 1.1
 0.5s 3.00nm
 CNCB 138.05 125 ePKP 27 57.00 -8.4X
 ZOBO 138.22 124 PKP 28 06.00 0.3
 VAO 147.14 156 ePKP 28 21.30 0.9
 KUK 147.58 270 ePKP 28 24.50 3.3X
 BMA 148.47 160 ePKP 28 24.80 2.4
 ITA 148.57 159 ePKP 28 22.59 -0.4
 KIC 151.92 270 PKP 28 34.48 6.6X
 0.7s 22.00nm
 LIC 152.20 270 PKP 28 35.06 6.8X
 0.6s 25.00nm
 TIC 152.22 271 PKP 28 35.04 6.8X
 0.6s 23.00nm
 BAO 152.99 147 ePKP 28 16.50 -12.9X

S.D. = 1.3 on 54 of 66 obs.

FEB 18, 1989 18h 29m 57.19±0.39s
 51.055 N ± 8.8km 176.253 W ± 4.2km
 DEPTH = 33.0km (normal)
 4.6mb (9 obs.)

ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK 0.87 342 iPc 30 14.30 1.3
 SMY 6.20 289 e(P) 31 31.00 2.2
 SDN 10.38 59 eP 32 35.20 8.6X
 SVW 15.22 41 e(P) 33 36.50 5.4X
 KDC 15.32 55 eP 33 34.70 2.4X
 TTA 16.13 35 eP 33 46.80 4.0X
 PMS 17.89 45 eP 34 05.20 0.3
 PWA 17.92 44 eP 34 05.70 0.6
 PMR 18.22 44 eP 34 08.10 -0.7
 IMA 18.93 29 eP 34 17.50 -0.1
 TOA 19.71 44 eP 34 25.90 -0.6
 FBA 20.24 36 eP 34 29.00 -2.9X
 BRW 22.17 17 eP 34 50.80 -0.5
 INK 26.82 34 eP 35 35.00 -0.8
 MBC 33.32 21 eP 36 33.00 -0.4
 0.7s 7.00nm 4.7mb
 YKA 34.29 46 P 36 42.80 0.8
 YKC 34.36 46 eP 36 43.00 0.5
 MAT 35.33 264 eP 36 51.00 -0.1
 1.2s 20.31nm 4.9mb
 LON 35.36 75 eP 36 53.50 2.1
 EDM 37.57 61 ePc 37 10.50 0.7
 CN2 39.18 283 eP 37 22.80 -0.6
 SES 40.06 65 eP 37 32.00 1.3
 LRM 41.47 71 eP 37 42.20 -0.3
 KVN 41.75 83 eP 37 44.50 -0.4
 FFC 43.03 55 eP 37 55.00 0.2
 0.6s 6.00nm 4.5mb
 BW06 44.87 73 eP 38 10.80 0.6
 1.0s 20.63nm 5.0mb
 PLM 46.10 89 eP 38 20.00 0.0
 BJI 47.01 284 eP 38 27.00 0.2
 TIA 48.79 279 P 38 40.30 -0.5
 GOL 49.23 74 eP 38 44.00 -0.5
 HHC 49.32 288 eP 38 45.10 0.2
 BTO 50.40 288 eP 38 53.40 0.2

TIY 50.74 284 eP 38 56.20 0.4
 ALO 51.59 80 eP 39 02.50 0.1
 1.0s 2.50nm 4.1mb
 FRB 52.46 32 ePc 39 06.90 -1.4
 WHN 54.28 276 eP 39 20.50 -1.7
 XAN 55.29 283 P 39 24.60 -5.0X
 LZH 57.01 288 eP 39 42.00 -0.1
 2.0s 55.00nm 5.2mb
 GTA 57.17 294 Pc 39 42.30 -0.8
 SCH 59.28 39 eP 39 56.00 -1.6
 CD2 60.61 284 eP 40 07.00 0.1
 WMO 60.85 304 P 40 07.50 -1.0
 GAC 61.92 51 eP 40 15.00 -0.6
 GYA 61.95 278 P 40 15.40 -0.8
 KJF 63.57 349 eP 40 24.00 -2.2
 KMI 65.36 280 eP 40 38.00 -0.6
 NB2 68.10 356 P 40 54.80 -0.5
 0.8s 3.10nm 4.5mb
 HFS 68.88 355 eP 40 58.60 -1.4
 0.5s 1.50nm 4.3mb
 CHG 72.37 278 eP 41 22.20 0.4
 BDT 73.51 277 eP 41 28.50 0.1
 KHC 79.84 353 P 42 05.50 2.1
 MAIO 80.20 317 eP 42 07.00 1.4
 QUE 81.85 309 eP 42 15.00 0.5
 KBA 81.90 353 eP 42 15.00 0.5
 0.7s 3.30nm 4.5mb
 PSI 84.66 268 ePd 42 29.50 0.7
 HYB 85.82 293 eP 42 35.00 0.3
 SKO 86.08 347 iP 42 36.20 0.6
 SLR 148.52 314 iPKPc 49 44.00 5.7X
 KSR 149.25 316 ePKP 49 42.50 3.0X
 SWZ 151.08 317 iPKPc 49 47.50 5.4X
 0.4s 16.95nm
 KIM 152.68 317 ePKP 50 02.50 18.1X

S.D. = 1.0 on 51 of 61 obs.

FEB 18, 1989 19h 38m 46.42±0.35s
 51.588 N ± 3.3km 16.144 E ± 4.2km
 DEPTH = 10.0km (geophysicist)

POLAND (548)

ML 4.3 (VKA).

KSP 0.75 173 iPd 39 00.40 -0.7
 0.3s 220.00nm
 iS 39 10.10
 iLR 39 15.80
 BRG 1.56 243 iPn 39 14.50 0.3
 iPg 39 16.40
 iSg 39 35.80
 PRU 1.90 213 Pn 39 18.60 -0.5
 Pg 39 20.00
 Sn 39 37.90
 Sg 39 45.70
 CLL 1.98 263 iPn 39 21.40 1.0
 iPg 39 24.70
 iSg 39 50.50
 KRA 2.85 121 eP 39 40.10 7.3X
 iS 40 17.40
 KHC 2.96 215 iPn 39 34.50 0.2
 iPg 39 40.80
 Sn 40 05.50
 Sg 40 17.50
 MOX 3.01 253 ePn 39 35.00 0.1
 iPg 39 43.00
 iSg 40 23.00
 VKA 3.33 178 iPnd 39 40.30 0.7
 0.5s 190.00nm
 iPg 39 47.80
 iSg 40 31.80
 ZST 3.45 169 i(Pn) 39 50.20 8.9X
 i 40 01.50
 e 40 34.00
 SPC 3.56 131 ePn 39 43.60 0.6
 i 39 56.80
 i 40 39.40
 GRF 3.66 241 ePn 39 44.60 0.3
 eSg 40 43.80
 SOP 3.92 176 eP 39 49.00 1.1
 SRO 4.03 159 eP 40 16.00 26.5X
 PSZ 4.40 145 ePn 39 55.00 0.1
 KBA 4.87 203 iPnc 40 01.10 -0.5
 iPg 40 18.40
 i 40 20.10
 iSn 40 54.40
 i 41 05.20
 i 41 21.40

18d 19h

SCE 5.40 214 iPnc 40 08.90 -0.2
 RBL 5.42 199 P 40 07.90 -1.4
 FVI 5.47 205 P 40 09.30 -0.5
 CTI 6.29 210 P 40 21.50 0.0
 MEM 6.46 265 iP 40 24.40 0.6
 WLF 6.64 257 iP 40 26.10 -0.3
 DOU 7.47 263 P 40 34.60 -3.3X
 HFS 8.68 352 eP 40 53.80 -1.0
 0.4s 1.20nm 4.6mb
 NUR 10.12 25 iP 41 14.40 -0.3
 SUF 12.39 22 eP 41 46.00 0.5
 KJF 14.03 21 eP 42 07.00 -0.1
 S.D. = 0.7 on 22 of 26 obs.

* FEB 18, 1989 21h 10m 30.76±0.60s
 7.381 N ±10.4km 77.823 W ±16.7km
 DEPTH = 33.0km (normal)
 4.4mb (2 obs.)

PANAMA-COLOMBIA BORDER REGION (82)

UPA 2.32 313 iPd 11 06.90 -0.6
 0.8s 129.85nm 11 08.50
 iS 11 40.50
 HOBC 3.44 151 eP 11 21.25 -2.3
 CLMC 3.70 160 eP 11 27.95 0.8
 ANCC 3.96 166 eP 11 30.20 -0.5
 HOQC 4.06 163 eP 11 31.50 -1.0
 DIAC 4.37 158 ePd 11 37.10 0.3
 DVD 4.70 283 eP 11 40.80 -0.4
 S 11 53.20
 ARE 24.50 165 eP 15 51.00 2.2
 ZOBO 25.38 158 P 15 58.00 0.5
 LPB 25.63 158 P 16 02.00 2.3
 CNCB 25.93 158 P 16 04.90 2.3
 CCH 27.18 155 eP 16 11.10 -2.7
 MEO 33.30 328 eP 17 06.70 -0.9
 0.5s 1.70nm 4.2mb
 ALQ 38.01 320 eP 17 48.70 0.8
 0.8s 7.46nm 4.6mb
 VAO 42.70 136 e(P) 18 25.00 -1.6
 SCH 48.13 9 eP 19 11.00 1.6
 FRB 56.66 5 eP 20 12.00 -0.9
 YKA 61.19 342 P 20 44.90 0.5
 MBC 72.45 350 eP 21 55.00 -0.4
 GBA 147.78 50 PKPd 30 15.20 3.4X
 WARB 150.13 228 ePKP 30 28.60 13.3X
 S.D. = 1.5 on 19 of 21 obs.

* FEB 18, 1989 21h 26m 43.23±0.87s
 11.734 S ±9.6km 117.480 E ±15.4km
 DEPTH = 33.0km (normal)
 4.6mb (2 obs.)

SOUTH OF SUMBAWA ISLAND (291)

KHKI 3.82 331 eP 27 40.50 -0.7
 eS 28 15.10
 e 29 32.10
 TRT 6.23 310 ePc 28 15.80 0.5
 MBL 9.64 167 eP 29 01.00 -1.8
 eS 30 40.00
 NANU 10.93 190 iPd 29 20.30 -0.1
 0.3s 5.00nm 5.3mb
 iS 31 13.50
 MEKA 14.84 176 eP 30 12.00 -0.5
 eS 32 43.00
 MRWA 17.45 184 eP 30 47.00 1.2
 eS 33 48.00
 WB5 18.14 119 eP 30 55.00 0.5
 COOL 19.36 170 eP 31 10.00 0.9
 0.3s 2.00nm 3.9mb
 eS 34 29.00
 KLB 19.76 179 eP 31 17.00 3.5X
 eS 34 41.00
 MUN 20.18 183 eP 31 23.00 5.1X
 eS 34 53.00
 NWA0 21.09 181 eP 31 34.00 6.7X
 S.D. = 1.2 on 8 of 11 obs.

* FEB 18, 1989 21h 58m 05.80±0.95s
 53.196 N ±19.1km 159.198 E ±15.6km
 DEPTH = 33.0km (normal)
 4.6mb (5 obs.)

NEAR EAST COAST OF KAMCHATKA (218)

MAT 22.20 230 eP 03 01.00 0.4
 TTA 25.09 49 eP 03 28.00 -0.6

IMA 26.33 42 eP 03 40.00 -0.1
 MBC 37.16 23 eP 05 15.00 0.3
 YKA 43.45 42 P 06 07.10 0.3
 NB2 63.29 343 P 08 32.60 -0.5
 0.6s 1.90nm 4.4mb
 HFS 63.68 342 eP 08 34.50 -1.1
 0.4s 2.20nm 4.6mb
 CLL 72.06 338 eP 09 28.00 0.0
 1.0s 12.00nm 4.8mb
 KHC 73.97 337 P 09 41.00 1.7
 GBA 74.31 272 Pd 09 40.40 -1.2
 0.7s 3.00nm 4.4mb
 KBA 75.95 337 iPd 09 52.00 1.2
 0.7s 12.20nm 5.0mb
 RBL 76.49 336 P 09 53.80 0.0
 FVI 76.54 337 P 09 53.20 -0.7
 S.D. = 0.9 on 13 of 13 obs.

FEB 18, 1989 22h 05m 45.36±0.87s
 33.171 N ±10.8km 132.308 E ±10.0km
 DEPTH = 10.0km (geophysicist)
 SHIKOKU, JAPAN (236)
 Felt (1 JMA) at Uwajima.

UWA 0.22 76 P 05 00.00 -50.0X
 SHNJ 1.38 314 P 06 10.10 -0.5
 eS 06 28.40
 SHK 1.39 13 eP 06 11.80 1.0
 KUMJ 1.40 243 P 06 09.50 -1.4
 eS 06 27.10
 TKSJ 1.66 60 eP 06 14.50 -0.2
 S 06 37.60
 YONJ 2.23 25 eP 06 23.60 0.7
 S 06 52.40
 KAGJ 2.32 212 eP 06 25.70 1.6
 WKYJ 2.93 68 P 06 31.70 -1.2
 S.D. = 1.4 on 7 of 8 obs.

FEB 18, 1989 22h 16m 37.23±0.34s
 43.765 N ±3.0km 13.101 E ±3.7km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)
 MD 3.2 (SSO), 3.2 (TRI).

ARV 0.29 203 Pd 16 43.40 0.1
 eSg 16 47.80
 AOI 0.42 120 iPg 16 45.50 -0.4
 iSg 16 53.07
 RSM 0.50 289 Pd 16 47.50 0.2
 eSg 16 55.20
 SSO 0.53 154 e(Pg) 16 47.49 -0.4
 eSg 16 57.34
 CIO 0.57 177 iPg 16 48.14 -0.7
 iSg 16 58.14
 SFI 0.92 280 P 16 54.70 0.0
 eSg 17 09.90
 PGD 1.00 277 P 16 56.00 -0.4
 eSg 17 11.50
 ALP 1.04 160 iPg 16 56.86 -0.2
 iSg 17 14.91
 FIR 1.34 271 ePn 17 01.00 -0.8
 eSn 17 27.00
 MNS 1.41 193 P 17 03.20 0.2
 eSg 17 21.90
 AQU 1.43 171 P 17 04.30 1.1
 eSn 17 24.00
 BDI 1.83 280 P 17 09.60 0.5
 PII 1.87 270 P 17 10.30 0.8
 TRI 2.00 13 ePn 17 10.30 -1.1
 iSn 17 35.00
 iSg 17 41.00
 SDI 2.12 165 P 17 13.80 0.5
 CEY 2.19 25 e(Pn) 17 18.00 3.8X
 eSn 17 41.50
 VBY 2.32 41 ePn 17 23.80 7.7X
 eSn 17 51.40
 iSg 17 56.40
 VOY 2.34 14 ePn 17 16.40 0.0
 eSn 17 45.90
 eSg 17 54.60
 LJU 2.49 24 ePn 17 20.50 2.0
 e(Sn) 17 48.80
 CTI 2.50 336 P 17 19.80 1.1
 eSn 17 47.80
 RBL 2.70 7 P 17 20.20 -1.3
 BOB 2.81 292 P 17 22.30 -0.8
 FVI 2.84 356 P 17 23.40 0.1

KBA 3.32 3 ePn 17 30.00 -0.4
 iPg 17 39.20
 i 18 09.00
 i 18 29.30

S.D. = 0.8 on 22 of 24 obs.

* FEB 18, 1989 22h 28m 32.05±0.77s
 6.967 S ±12.0km 155.502 E ±8.2km
 DEPTH = 79.5 ±9.6 km
 4.2mb (4 obs.)

SOLOMON ISLANDS (193)

PAA 0.66 359 iPc 28 47.00 -0.5
 iS 28 52.00
 RAB 4.31 310 eP 29 46.00 9.3X
 HNR 5.04 119 eP 29 47.00 0.3
 eS 30 47.00
 LAT 8.45 272 eP 30 35.00 1.1
 PMG 8.61 253 eP 30 36.00 -0.1
 RMO 20.45 198 eP 33 13.00 7.5X
 QIS 20.49 227 eP 33 05.00 -0.9
 e 33 09.00
 WB5 24.19 236 eP 33 43.20 0.7
 WRA 24.25 236 Pc 33 43.80 0.8
 0.5s 4.20nm 4.1mb
 WARB 33.48 232 eP 34 57.20 -8.7X
 FORR 34.97 224 iPd 35 18.00 -0.6
 0.4s 19.00nm 5.4mb X
 KLB 42.89 230 eP 36 24.00 -0.4
 0.4s 2.00nm 4.3mb
 MRWA 43.28 234 iPd 36 27.50 -0.1
 0.3s 3.00nm 4.6mb
 CHG 61.34 296 eP 38 57.80 15.6X
 GBA 80.13 285 Pc 40 34.20 -1.2
 0.6s 1.60nm 4.1mb
 YKA 96.08 28 P 41 52.60 1.0
 S.D. = 0.9 on 12 of 16 obs.

* FEB 18, 1989 23h 09m 55.26±1.44s
 43.796 N ±10.9km 13.122 E ±8.0km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)

ARV 0.32 204 P 10 02.10 0.1
 eSg 10 06.80
 AOI 0.43 125 iPg 10 04.06 0.1
 iSg 10 12.04
 RSM 0.50 285 P 10 05.40 0.0
 eSg 10 14.90
 CIO 0.60 178 iPg 10 07.12 -0.3
 iSg 10 17.01
 ASS 0.80 205 P 10 11.00 0.2
 eSg 10 23.20
 S.D. = 0.3 on 5 of 5 obs.

* FEB 18, 1989 23h 28m 44.46±2.04s
 33.946 S ±18.3km 71.014 W ±10.5km
 DEPTH = 33.0km (normal)
 NEAR COAST OF CENTRAL CHILE (135)

TACH 0.30 12 iPc 28 53.80 1.6
 iS 29 04.50
 CHCH 0.30 88 iPc 28 52.50 0.2
 iS 29 02.70
 PCH 0.53 52 iPd 28 55.40 -0.2
 iS 29 08.00
 SAN 0.57 31 iPc 28 56.30 0.1
 iS 29 09.50
 LCCH 0.66 315 iPc 28 57.00 -0.3
 iS 29 10.50
 PEL 0.85 19 iP 29 00.00 0.0
 iS 29 16.00
 FCH 0.86 45 iPd 28 59.60 -0.9
 iS 29 16.00
 ROCH 0.97 0 iPc 29 01.50 -0.5
 iS 29 17.50
 S.D. = 0.9 on 8 of 8 obs.

FEB 18, 1989 23h 46m 57.47±0.71s
 34.838 N ±6.2km 30.425 E ±7.9km
 DEPTH = 10.0km (geophysicist)
 EASTERN MEDITERRANEAN SEA (371)

PPCY 1.58 88 eP 47 26.50 1.0
 ELL 1.95 348 iPn 47 30.30 -0.8
 CSS 2.39 86 eP 47 37.50 0.2
 eS 48 05.50

LFK 2.59 79 ePn 47 41.00 0.9
 BCK 2.62 3 iPn 47 40.50 -0.1
 IKL 3.00 61 iPn 47 44.50 -1.5
 KHL 3.55 348 ePn 48 07.50 13.6X
 HRI 4.68 108 eP 48 10.00 0.0
 KOT 5.04 166 ePn 48 14.50 -0.3
 BURJ 5.17 119 Pd 48 16.50 -0.3
 SALJ 5.22 121 Pc 48 17.40 -0.2
 JARJ 5.29 118 Pd 48 18.20 -0.3
 KFNJ 5.30 123 Pc 48 20.50 1.9
 MASJ 5.41 123 P 48 19.60 -0.6
 PRNI 5.91 138 eP 48 26.00 -1.2
 MBH 6.30 142 eP 48 33.00 0.3
 LIT 8.21 312 eP 49 54.40 55.0X
 KNT 8.67 319 eP 49 06.80 1.0
 S.D. = 0.9 on 16 of 18 obs.

& FEB 19, 1989 00h 22m 02.22s
 61.014 N 151.430 W
 DEPTH = 64.5km
 SOUTHERN ALASKA (2)
 <AGS-P>.

NKA 0.29 161 iP 22 14.15 1.3
 SPU 0.35 299 iP 22 12.96 -0.4
 CGLM 0.41 317 iP 22 13.40 -0.5
 CRP 0.43 306 iP 22 13.90 -0.4
 RDT 0.65 228 iP 22 15.74 -0.7
 SLKM 0.78 130 iP 22 17.30 -0.7
 RED 0.89 228 eP 22 18.70 -0.7
 PMS 0.94 75 eP 22 19.25 -0.7
 >NNL 0.98 176 iP 22 20.76 0.3
 PWA 0.98 49 iP 22 20.40 -0.1
 PTE 1.18 96 eP 22 22.31 -0.8
 ILIM 1.20 220 iP 22 22.80 -0.7
 PLRM 1.25 61 eP 22 22.96 -1.1
 PME 1.31 61 eP 22 24.03 -0.8
 SEW 1.34 132 eP 22 23.89 -1.3
 GHO 1.43 57 iP 22 25.65 -0.9
 KNK 1.49 73 iP 22 26.16 -1.2
 CNPM 1.50 176 iP 22 26.87 -0.5
 PWL 1.52 95 eP 22 26.17 -1.5
 SML 1.69 60 iP 22 28.74 -1.3
 KNIM 1.94 109 iP 22 30.34 -3.1
 SVW 2.04 274 iP 22 33.04 -1.9
 GLI 2.12 92 iP 22 32.74 -3.3
 MTU 2.13 117 eP 22 34.12 -2.1
 VZW 2.37 87 eP 22 37.03 -2.6
 FID 2.44 94 eP 22 37.06 -3.4
 VLZ 2.48 85 eP 22 38.60 -2.4
 KLU 2.71 77 iP 22 41.73 -2.6
 TOA 2.74 64 eP 22 43.78 -1.0
 KDC 3.32 190 eP 22 50.40 -2.4
 PAX 3.43 52 eP 22 51.34 -3.1
 GLB 3.71 80 eP 22 55.26 -3.1
 CCB 4.01 23 eP 23 00.26 -2.2
 33 obs. associated

* FEB 19, 1989 00h 23m 38.30± 2.04s
 45.645 N ±18.0km 14.070 E ± 7.6km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)
 MD 2.1 (TRI).

TRI 0.22 287 iPg 23 43.70 0.6
 CEY 0.27 69 iPg 23 43.90 0.0
 VOY 0.41 342 ePg 23 47.10 0.5
 RBL 0.87 336 P 23 55.10 0.0
 eSg 24 07.90

FVI 1.31 317 P 24 01.20 -1.2
 eSg 24 22.50
 S.D. = 1.0 on 5 of 5 obs.
 * FEB 19, 1989 01h 02m 29.78± 0.71s
 2.398 N ±11.9km 126.831 E ±13.0km
 DEPTH = 33.0km (normal)
 4.7mb (2 obs.)
 MOLUCCA PASSAGE (266)

MNI 2.20 245 iPd 03 07.00 2.2
 eS 03 36.20
 TSM 8.93 282 iPc 04 44.20 4.7X
 MTN 15.74 164 eP 06 10.00 -0.7
 WB5 23.34 162 eP 07 35.90 -0.3
 WRA 23.39 162 Pc 07 36.50 -0.2
 0.9s 21.80nm 4.7mb
 OIS 26.03 152 eP 08 02.00 0.2
 ASPA 26.81 166 eP 08 08.20 -0.8
 LOE 28.81 303 eP 08 25.80 -1.4
 CHG 31.81 303 iPd 08 53.60 -0.2
 0.9s 13.03nm 4.8mb
 FORR 33.08 178 eP 09 03.00 -1.7
 BJI 38.70 347 eP 09 54.00 1.7
 BRS 38.76 142 Pd 09 52.70 -0.4
 COO 40.58 146 iPd 10 09.30 1.2
 BWA 41.87 153 eP 10 20.30 1.6
 CAN 42.88 153 eP 10 27.70 0.8
 HYB 49.67 291 ePd 11 20.00 -0.9
 GBA 50.06 286 P 11 23.00 -0.8
 S.D. = 1.3 on 16 of 17 obs.

& FEB 19, 1989 01h 11m 54.24s
 61.826 N 150.124 W
 DEPTH = 43.1km
 SOUTHERN ALASKA (2)
 <AGS-P>.

PWA 0.21 146 iP 12 01.99 0.1
 PLRM 0.53 116 iP 12 04.55 -0.9
 PME 0.56 110 iP 12 13.78
 GHO 0.57 95 iP 12 05.27 -0.6
 PMS 0.64 155 Pn 12 05.58 -0.6
 SML 0.85 90 iP 12 06.54 -0.6
 KNK 0.90 117 iP 12 08.80 -1.2
 CGLM 1.04 241 eP 12 22.31
 PTE 1.10 151 eP 12 23.36 -0.7
 CRP 1.12 241 eP 12 26.46
 SPU 1.13 236 iP 12 28.47
 NKA 1.21 207 eP 12 13.10 -0.8
 SLKM 1.32 182 iP 12 28.49
 RDT 1.67 222 iP 12 14.97 0.0
 GLI 1.74 122 iP 12 15.63 -1.0
 SEW 1.76 169 eP 12 16.63 -1.0
 >NNL 1.88 198 eP 12 20.95 -0.7
 VZW 1.88 113 eP 12 42.61
 KNIM 1.88 141 iP 12 20.86 -1.7
 TOA 1.89 80 eP 12 43.65
 RED 1.91 223 eP 12 22.99 0.3
 VLZ 1.95 109 eP 12 24.72 0.3
 MCK 1.99 15 eP 12 23.36 -1.2
 KLU 2.03 98 iP 12 21.98 -2.5
 FID 2.06 120 eP 12 24.73 0.1
 MTU 2.20 146 eP 12 50.04
 ILIM 2.23 220 iP 12 24.30 -0.7
 HIN 2.27 128 eP 12 23.97 -1.4
 CNPM 2.37 194 eP 12 25.38 -0.7
 PAX 2.45 60 eP 12 25.57 -1.2
 CVA 2.48 119 eP 12 25.17 -1.9
 SGAM 2.73 117 eP 12 30.63 1.5
 SVW 2.74 257 iP 12 28.81 -0.7
 DDM 2.78 43 eP 12 56.59
 NEA 2.80 9 eP 12 28.28 -1.8
 TTA 2.96 295 eP 12 31.54 0.0
 RAGM 3.01 116 eP 12 32.17 -0.6
 13 02.14
 12 33.65 0.7
 12 37.94 1.3
 12 34.66 -2.1
 12 37.39 0.0
 12 35.56 -2.1
 12 37.58 -2.3
 12 41.63 1.0

CCB 3.02 19 eP 12 38.75 -1.9
 GLB 3.04 95 eP 12 39.41 -1.6
 RDS 3.14 16 eP 12 40.55 -1.9
 FBA 3.26 18 eP 12 42.12 -2.0
 41 obs. associated

FEB 19, 1989 01h 45m 56.88± 0.20s
 7.604 N ± 4.2km 94.029 E ± 4.1km
 DEPTH = 22.4km (4 depth phases)
 5.2mb (44 obs.) 4.8msz (5 obs.)
 NICOBAR ISLANDS REGION (704)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 11S, 22C
 Centroid Location:
 Origin Time 01:46: 1.6 0.9
 Lat 7.65N 0.09 Lon 94.47E 0.11
 Dep 15.0 FIX Half-duration 1.5
 Moment Tensor: Scale 10**16 Nm
 Mrr= 0.04 0.60 Mtt=-8.20 0.53
 Mff= 8.17 0.88 Mrt=-5.62 2.34
 Mrf=-2.19 1.61 Mtf=-0.36 0.56
 Principal Axes:
 T Val= 8.80 Plg=17 Azm= 95
 N 2.35 57 212
 P -11.15 27 356
 Best Double Couple: Mo=1.0*10**17
 NP1: Strike=138 Dip=58 Slip=-172
 NP2: 43 83 -32

BSI 2.44 149 iPc 46 36.00 -0.2
 PSI 6.89 135 eP 47 38.80 -0.4
 NNT 7.49 48 iPc 47 48.80 1.3
 IPM 7.58 113 ePc 47 45.00 -3.8X
 0.5s 130.70nm 6.3mb X
 NST 10.00 36 eP 48 07.40
 PPI 10.22 141 ePc 48 21.00 -1.4
 0.9s 182.50nm 6.4mb X
 BDT 10.74 26 eP 48 23.60 -1.8
 0.8s 25.90nm 5.6mb
 KGM 10.79 120 eP 48 31.00 1.8
 CHG 12.12 23 ePd 48 35.00 0.7
 1.1s 59.49nm 5.7mb
 LOE 12.30 37 eP 51 10.00
 KSI 14.06 142 e(P) 48 52.50 -1.2
 49 11.00 -6.0X
 51 20.00
 KOD 16.57 280 eP 49 54.80 4.9X
 GBA 17.36 291 Pd 49 59.90 0.4
 1.4s 98.00nm 4.7mb
 HYB 17.97 304 iP 50 08.50 1.4
 1.0s 60.00nm 4.7mb
 QIZ 19.10 52 eP 50 21.20 0.2
 N 12s 12.80um
 LSA 22.15 353 Pc 53 59.00
 E 15s 1.50um 50 51.90 -1.5
 54 50.00
 GYA 22.27 31 iPc 50 55.60 1.4
 N 12s 6.50um
 E 12s 9.50um
 POO 22.43 301 iPc 55 01.00
 TRT 23.99 129 iPd 50 57.70 1.9
 0.6s 35.90nm 5.1mb
 GZH 24.11 48 eP 51 12.20 1.3
 N 10s 37.00um
 E 12s 8.20um
 TSM 24.15 97 eP 51 13.20 1.1
 CD2 24.91 20 eP 51 14.50 2.0
 51 20.10 0.3
 Z 14s 1.80um 4.7msz X
 E 10s 6.50um
 NDI 26.29 325 eP 51 33.20 0.5
 0.7s 36.30nm 5.1mb
 KHKI 26.73 126 eP 51 36.00 -0.8
 54 25.00
 BAG 27.37 69 eP 51 43.00 0.1
 XAN 29.68 26 P 52 09.20 5.8X
 N 13s 6.60um
 E 13s 4.80um
 WHN 29.72 37 eP 52 04.50 0.8
 Z 16s 5.39um 5.3msz X
 N 10s 2.89um
 E 11s 2.63um
 LZH 29.74 16 eP 57 02.00
 52 03.50 -0.6

[illegible]

ITA 137.68 245 e(PKP)05 24.00 1.6
 VAO 139.55 243 ePKP 05 30.70 5.2X
 BAO 142.00 254 ePKP 05 23.00 -7.1X
 ATB 146.14 275 e(PKP)05 36.00 -1.0
 CNCB 160.20 241 PKP 06 02.70 5.6X
 LPB 160.42 241 PKP 06 04.00 6.8X
 ZOBO 160.55 242 PKP 05 59.00 1.5

Z 20s 0.29um
 LR 55 24.00
 S.D. = 1.2 on 136 of 178 obs.

FEB 19, 1989 01h 50m 45.24 ± 0.47s
 40.225 N ± 5.4km 21.816 E ± 3.5km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 3.7 (ATH).

KZN 0.09 337 iPbd 50 49.00 1.1
 LIT 0.53 103 eP 50 55.00 -1.0
 KBN 0.86 298 iPg 51 02.30 0.5
 THE 0.97 65 ePg 51 04.00 0.4
 OHR 1.18 319 iPn 51 06.30 -0.9
 VAY 1.24 27 iPn 51 07.70 -0.5
 KNT 1.25 41 ePb 51 08.00 -0.4
 PLG 1.26 83 ePb 51 08.30 -0.3
 TPE 1.38 273 iPnd 51 08.50 -2.0
 NEO 1.42 130 iPnc 51 11.00 -0.1
 SRN 1.44 257 iPnc 51 16.00 4.7X
 BERA 1.50 289 ePn 51 13.40 1.2
 SRS 1.62 56 ePb 51 13.00 -0.9
 SKO 1.77 351 iPn 51 15.60 -0.5

i 51 19.20
 iSg 51 37.30
 iSg 51 42.90
 PHP 1.79 325 iPnc 51 16.10 -0.3
 TIR 1.86 308 ePn 51 19.20 1.9
 MMB 1.99 46 eP 51 20.00 0.7
 iS 51 52.00

LACI 2.13 312 ePn 51 24.50 3.2X
 KKS 2.13 331 ePn 51 22.00 0.7
 VLS 2.26 205 ePn 51 24.50 1.3
 SDA 2.50 316 ePn 51 30.60 4.0X
 BCI 2.51 329 ePn 51 26.40 -0.3
 VTS 2.59 23 iP 51 28.00 0.0
 iSg 52 10.00

RZN 2.64 55 iPc 51 28.00 -0.8
 ATH 2.69 146 ePn 51 30.00 0.6
 PVY 2.74 330 ePn 51 30.40 0.2
 eSn 52 04.00

PLD 2.88 48 eP 51 35.00 3.1X
 PGB 2.92 37 iPc 51 34.00 1.4
 TTG 2.92 320 ePn 51 33.10 0.5
 eSn 52 10.00

LCI 2.96 273 P 51 31.00 -2.1
 RDO 2.98 71 ePn 51 31.50 -1.8
 KDZ 3.08 61 iP 51 34.00 -0.8
 DIM 3.35 56 eP 51 46.00 7.4X
 PRK 3.57 104 ePn 51 43.00 1.2
 BRT 3.57 282 P 51 41.10 -0.8
 eSn 52 22.30

PVL 3.98 40 eP 51 45.00 -2.6
 TDS 4.25 264 P 51 53.60 2.1
 MGR 4.80 271 P 51 59.00 -0.3
 eSn 52 52.50

DRA 4.80 21 ePd 52 28.00 28.7X
 BZS 5.39 359 ePd 52 09.50 1.9
 MLR 6.07 29 ePc 52 20.00 2.7
 SDI 6.23 286 P 52 19.00 -0.6
 VRI 6.69 31 ePc 52 28.00 2.1
 VBY 7.14 320 eP 53 02.50 30.2X
 CEY 7.72 318 eP 52 39.20 -1.2
 eS 54 03.50

LJU 7.88 320 e(P) 53 12.00 29.4X
 TRI 8.05 316 eP 52 55.10 10.1X
 e 54 08.80
 e 54 27.00
 e 55 10.70

VOY 8.20 318 e(P) 52 44.40 -2.7
 e 54 14.00
 FVI 9.15 317 P 52 56.80 -3.3X
 KBA 9.19 321 eP 53 07.50 6.5X

S.D. = 1.4 on 39 of 50 obs.

* FEB 19, 1989 01h 50m 52.70 ± 0.89s
 2.363 N ± 14.0km 127.024 E ± 12.7km

DEPTH = 33.0km (normal)
 MOLUCCA PASSAGE (266)

MNI 2.37 247 ePd 51 30.80 0.7
 iS 52 09.00
 WB5 23.25 162 iPc 55 58.10 -0.1
 OIS 25.90 152 eP 56 24.00 0.4
 0.4s 24.00nm 5.1mb X

WARB 28.38 181 eP 56 38.00 -8.2X
 FORR 33.04 178 iPd 57 26.00 -1.3
 0.3s 31.00nm 5.7mb X

BRS 38.61 142 Pc 58 14.30 -0.4
 BJI 38.78 347 (P) 58 16.00 0.1
 COO 40.44 146 iPd 58 31.40 1.5
 GBA 50.26 286 P 59 44.00 -4.2X
 AVY 80.65 251 eP 03 03.70 -0.9

S.D. = 1.1 on 8 of 10 obs.

* FEB 19, 1989 02h 34m 01.06 ± 0.81s
 59.995 N ± 6.4km 6.536 E ± 9.9km
 DEPTH = 10.0km (geophysicist)

SOUTHERN NORWAY (535)
 MD 1.8 (BER).

ODD1 0.10 151 iPg 34 04.05 0.3
 iSg 34 05.34

BLS1 0.62 166 iP 34 13.21 -0.5
 iS 34 21.34

KMY 1.02 220 eP 34 20.57 0.2
 iSg 34 33.56

HYA 1.19 352 iP 34 23.04 -0.1
 eS 34 39.75

NRA0 2.60 71 iPc 34 43.90 0.1
 ePg 34 46.50
 iS 35 20.20

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

* FEB 19, 1989 02h 51m 07.21 ± 0.67s
 30.471 N ± 16.5km 69.035 E ± 15.5km
 DEPTH = 33.0km (normal)
 4.3mb (4 obs.)

PAKISTAN (710)

NDI 7.34 102 eP 52 55.50 0.6
 0.5s 7.04nm 4.9mb

MAIO 9.87 309 eP 53 31.00 1.1
 eS 56 03.00

HYB 15.63 144 eP 54 46.00 -0.7
 GBA 18.49 153 P 55 23.00 0.4
 0.7s 2.50nm 3.5mb

MLR 36.67 306 eP 58 13.00 0.3
 SLL 47.22 326 eP 59 37.40 -1.1
 0.5s 0.90nm 4.0mb

NB2 48.35 327 P 59 46.80 -0.6
 1.1s 6.00nm 4.5mb

INK 80.10 8 eP 03 20.00 5.3X
 YKA 87.32 2 P 03 57.10 5.5X

CFA 143.54 257 ePKPd 10 29.30 -11.2X
 RTCB 143.99 257 iPKPd 10 28.20 -13.1X

RTRS 144.32 260 iPKPc 10 29.50 -12.2X

S.D. = 1.0 on 7 of 12 obs.

FEB 19, 1989 03h 36m 38.64 ± 1.43s
 34.677 N ± 6.1km 24.198 E ± 4.4km
 DEPTH = 17.8 ± 11.5 km
 4.2mb (20 obs.)

CRETE (370)
 ML 3.9 (ATH).

VAM 0.73 0 ePb 36 54.10 1.6
 NPS 1.30 63 iPnc 37 06.10 4.2X

KAP 2.59 69 ePb 37 29.10 8.6X
 ATH 3.31 353 ePn 37 32.00 1.4

IZM 4.46 33 eP 37 47.40 0.4
 VLS 4.55 321 ePn 37 48.90 0.7

KSL 4.63 70 ePn 37 51.00 1.6
 NEO 4.69 351 ePn 37 50.50 0.3

PRK 4.85 19 ePn 37 52.00 -0.5
 ELL 5.08 64 iP 37 57.30 1.4

EZN 5.41 18 eP 37 59.00 -1.4
 KHL 5.62 48 iP 38 04.60 1.1

PLG 5.72 354 ePn 38 05.00 0.2
 BCK 5.87 60 iP 38 07.80 0.8

KZN 5.94 342 ePn 38 09.10 1.2
 DST 6.06 34 eP 38 10.00 0.4

KBN 6.51 337 ePn 38 16.00 0.0

TPE 6.52 331 ePn 38 18.50 2.4
 RDO 6.54 9 ePn 38 15.10 -1.3

VAY 6.76 350 ePn 38 21.00 1.6
 VLO 6.88 329 ePn 38 20.80 -0.3

BERA 6.89 332 ePn 38 20.70 -0.6
 MMB 6.91 357 iPd 38 22.00 0.4

OHR 6.96 338 ePn 38 20.20 -2.1
 RZN 7.01 3 iPc 38 23.00 -0.1

KDZ 7.03 7 iP 38 23.00 -0.2
 SOI 7.39 300 P 38 27.90 -0.3

PLD 7.43 3 eP 38 29.00 0.3
 TIR 7.48 334 ePn 38 30.20 0.7

PHP 7.60 338 ePn 38 31.60 0.5
 SKO 7.60 344 ePn 38 30.50 -0.7

HLW 7.72 126 eP 38 34.00 1.1
 S 40 09.50

LACI 7.79 334 ePn 38 31.20 -2.7
 PGB 7.86 360 iP 38 34.00 -0.9

IKL 7.90 76 eP 38 34.20 -1.2
 MEU 7.90 290 P 38 36.10 0.6

eSn 39 58.80
 VTS 7.94 355 eP 38 36.00 -0.1
 eSg 39 05.00

KKS 7.96 339 ePn 38 41.60 5.4X
 TDS 8.00 311 P 38 35.80 -1.1

KOT 8.01 124 ePn 38 37.50 0.6
 SDA 8.20 335 ePn 38 39.00 -0.6

BRT 8.30 320 P 38 40.60 -0.4
 BCI 8.33 338 ePn 38 40.40 -1.0

BBTK 8.55 50 iPc 38 45.00 0.4
 PVL 8.57 6 eP 38 40.00 -4.7X

MGR 8.77 311 P 38 46.00 -1.5
 eSn 40 15.40

ADI 9.31 97 ePd 38 56.00 1.1
 JVI 9.73 103 ePd 39 00.00 -0.7

BURJ 9.97 101 Pd 39 16.50 12.4X
 SALJ 9.97 102 Pd 39 03.50 -0.6

KFNJ 10.01 103 P 39 03.20 -1.4
 MASJ 10.09 104 Pd 39 04.90 -0.9

MKRJ 10.09 105 Pd 39 04.00 -1.8
 JARJ 10.11 101 P 39 49.00 42.9X

MBH 10.28 115 eP 39 07.50 -0.8
 SDI 10.76 314 P 39 12.90 -2.1

MLR 10.88 7 ePc 39 17.50 0.8
 BZS 11.10 351 eP 39 18.00 -1.5

VRI 11.35 9 eP 39 25.00 2.2
 VBY 12.79 330 e(P) 39 40.80 -1.4
 e(S) 41 53.40

CEY 13.32 329 e(P) 39 48.50 -0.8
 eS 42 09.50

TRI 13.59 327 eP 39 49.00 -3.8X
 e 42 09.30

VOY 13.78 328 e(P) 39 54.30 -1.1
 RBL 14.24 329 P 39 58.20 -3.3X

FVI 14.70 327 P 40 05.20 -2.2
 CTI 14.83 324 P 40 07.40 -1.7

KBA 14.84 330 e(P) 40 08.00 -1.4
 0.7s 6.10nm 4.2mb

i 40 16.00
 e 40 30.00

KHC 16.44 335 P 40 32.70 2.8
 1.0s 10.50nm 3.9mb

e 40 43.00
 PRU 16.86 338 eP 40 36.50 1.4

LPG 17.14 314 eP 40 46.90 7.9X
 0.6s 2.70nm 3.6mb

GRF 17.78 331 eP 40 48.80 2.1
 1.1s 28.00nm 4.3mb

BRG 17.82 338 eP 40 47.40 0.3
 BSF 18.49 321 eP 40 56.30 0.8

0.6s 5.40nm 3.9mb
 CLL 18.49 337 iP 40 53.90 -1.5

1.2s 10.00nm 3.9mb
 CDF 18.62 323 eP 40 57.10 0.0

0.7s 5.20nm 3.8mb
 HAU 18.83 320 eP 41 00.20 0.6

0.6s 5.40nm 3.9mb
 LBF 19.56 315 eP 41 08.60 0.2

0.6s 3.00nm 3.8mb
 LOR 19.78 316 eP 41 10.60 -0.1

0.4s 1.70nm 3.7mb
 CAF 19.79 308 eP 41 13.10 2.3

0.8s 5.90nm 3.9mb
 WLF 20.00 324 P 41 39.40 26.5X

LPO 20.27 306 eP 41 17.50 1.6
 0.6s 18.70nm 4.6mb

RJF 20.30 308 eP 41 17.60 1.5

19d 03h

| | | | | | | |
|------|-------|---------|-------|-------|-------|-------|
| LFF | 0.7s | 11.90nm | 4.4mb | 41 | 21.50 | 1.6 |
| MEM | 0.6s | 19.80nm | 4.7mb | 41 | 21.40 | 1.1 |
| DOU | 20.71 | 326 iP | 41 | 23.60 | -0.2 | |
| SNF | 0.7s | 32.20nm | 4.8mb | 41 | 29.70 | 1.7 |
| NUR | 21.47 | 324 P | 42 | 08.00 | -2.5 | |
| NB2 | 25.85 | 1 eP | 42 | 24.80 | -2.5 | |
| SUF | 27.67 | 346 P | 42 | 27.00 | -4.0X | |
| KJF | 0.6s | 2.80nm | 4.2mb | 42 | 27.00 | -4.0X |
| BNG | 28.09 | 2 eP | 42 | 41.00 | -3.8X | |
| SOD | 0.7s | 4.00nm | 4.3mb | 43 | 01.10 | 7.7X |
| TIC | 29.63 | 3 eP | 43 | 10.00 | -2.3 | |
| KIC | 30.54 | 191 ePd | 43 | 08.50 | 4.6X | |
| FRB | 0.3s | 3.00nm | 4.6mb | 44 | 08.90 | 4.6X |
| SCH | 32.77 | 2 eP | 44 | 11.30 | 4.6X | |
| MBG | 38.77 | 231 P | 46 | 51.00 | 0.3 | |
| BJI | 38.81 | 230 P | 47 | 07.00 | 0.4 | |
| INK | 39.10 | 230 P | 47 | 31.00 | -0.8 | |
| YKA | 60.68 | 329 eP | 47 | 51.00 | -0.5 | |
| JMA | 63.02 | 320 eP | 48 | 25.00 | -0.8 | |
| FFC | 66.97 | 351 eP | 48 | 35.90 | 0.7 | |
| PWA | 70.06 | 55 eP | 48 | 46.60 | 0.9 | |
| S.D. | 75.98 | 352 eP | 48 | 47.50 | 1.1 | |
| S.D. | 77.66 | 342 P | 49 | 09.40 | 1.2 | |
| S.D. | 79.57 | 359 eP | 49 | 09.40 | 1.2 | |

* FEB 19, 1989 03h 42m 55.69±1.83s
 39.977 N ±14.6km 20.487 E ±9.2km
 DEPTH = 10.0km (geophysicist)
 GREECE-ALBANIA BORDER REGION (392)

| | | | | | |
|------|------|---------|----|-------|------|
| SRN | 0.39 | 256 iPg | 43 | 03.30 | -0.3 |
| TPE | 0.48 | 311 iPg | 43 | 03.70 | -1.8 |
| KBN | 0.69 | 21 ePg | 43 | 09.50 | 0.1 |
| BERA | 0.83 | 331 ePg | 43 | 12.90 | 1.1 |
| VLO | 0.90 | 303 ePg | 43 | 14.50 | 1.5 |
| OHR | 1.16 | 12 ePn | 43 | 16.70 | -0.7 |
| VAY | 2.08 | 49 ePn | 43 | 31.00 | 0.0 |

S.D. = 1.4 on 7 of 7 obs.
 FEB 19, 1989 04h 23m 44.66±0.37s
 7.887 S ±7.3km 73.966 W ±9.4km
 DEPTH = 47.5km (3 depth phases)
 5.2mb (44 obs.)
 PERU-BRAZIL BORDER REGION (112)

| | | | | | |
|------|-------|----------|----|-------|-------|
| ARE | 8.86 | 164 eP | 25 | 54.00 | 0.7 |
| ZOBO | 10.10 | 146 P | 26 | 11.20 | 0.6 |
| Z | 20s | 0.16um | 28 | 12.00 | 1.5 |
| LPB | 10.33 | 147 P | 26 | 15.10 | 1.5 |
| CNCB | 1.0s | 80.00nm | 26 | 18.00 | 0.3 |
| CCH | 10.62 | 147 P | 26 | 40.00 | 2.1 |
| HJA | 12.13 | 142 eP | 27 | 42.20 | -2.4 |
| UPA | 17.32 | 153 iPd | 27 | 57.70 | 8.8X |
| ITB1 | 17.65 | 342 eP | 29 | 01.50 | -4.7X |
| ITB | 25.06 | 134 e(P) | 29 | 03.20 | -5.1X |
| ITB7 | 25.28 | 134 e(P) | 29 | 03.90 | -6.6X |
| BAO | 25.51 | 135 e(P) | 29 | 14.40 | -5.9X |
| ITA | 26.55 | 109 eP | 30 | 07.90 | 2.0 |
| BLA | 31.62 | 120 eP | 32 | 00.00 | 0.6 |
| VVO | 45.27 | 353 P | 32 | 19.30 | 1.1 |
| RLO | 47.65 | 336 eP | 32 | 22.80 | 1.2 |
| FVM | 48.08 | 337 iP | 32 | 22.50 | 0.4 |
| TUL | 48.15 | 343 P | 32 | 23.40 | 1.2 |
| LNO | 48.17 | 336 ePd | 32 | 23.10 | 1.0 |
| SIO | 48.23 | 336 ePd | 32 | 23.70 | 0.9 |
| FKO | 48.27 | 334 ePc | 32 | 23.70 | 0.6 |
| MEO | 0.7s | 49.90nm | 32 | 25.80 | 1.7 |
| OCO | 0.4s | 5.00nm | 32 | 26.10 | 1.0 |
| RRO | 48.53 | 334 eP | 32 | 30.80 | 3.1X |
| ACO | 0.6s | 7.90nm | 32 | 40.00 | 1.7 |
| ALQ | 48.86 | 333 eP | 32 | 55.00 | -0.6 |
| | 0.5s | 19.10nm | 32 | | |
| | 0.7s | 27.70nm | 32 | | |
| | 1.0s | 12.50nm | 32 | | |

| | | | | | |
|------|-------|---------|----|-------|------|
| GAC | 53.36 | 359 eP | 33 | 04.00 | 2.6 |
| GLD | 55.52 | 331 P | 33 | 17.50 | -0.1 |
| GOL | 1.2s | 60.61nm | 33 | 17.50 | -0.4 |
| PLM | 55.55 | 331 eP | 33 | 33.50 | -0.4 |
| STJ | 0.7s | 4.62nm | 33 | 38.00 | 0.9 |
| BW06 | 57.80 | 318 P | 33 | 47.50 | -1.2 |
| KVN | 58.33 | 17 eP | 34 | 02.00 | -1.3 |
| SCH | 59.94 | 330 P | 34 | 08.00 | 0.8 |
| LRM | 1.1s | 22.32nm | 34 | 12.10 | -1.0 |
| SES | 62.09 | 322 P | 34 | 30.30 | -0.3 |
| FFC | 62.76 | 5 eP | 34 | 45.00 | 53km |
| EDM | 63.59 | 331 eP | 34 | 48.50 | -1.3 |
| PNT | 66.35 | 335 ePd | 34 | 50.00 | -0.3 |
| LIC | 0.6s | 29.00nm | 34 | 52.90 | -2.1 |
| TIC | 66.65 | 343 eP | 34 | 53.64 | -1.9 |
| KIC | 0.8s | 12.00nm | 35 | 02.00 | -0.3 |
| FRB | 71.55 | 3 eP | 35 | 20.50 | -2.0 |
| KUK | 74.72 | 81 eP | 35 | 21.00 | -1.6 |
| LEGH | 74.81 | 82 eP | 35 | 22.00 | -1.5 |
| KOGH | 74.82 | 82 eP | 35 | 25.50 | 1.2 |
| SHGH | 75.00 | 82 eP | 35 | 31.00 | -1.5 |
| AVE | 75.19 | 53 iP | 35 | 31.80 | -1.0 |
| YKC | 76.75 | 342 iPd | 35 | 47.40 | 1.8 |
| YKA | 0.5s | 10.00nm | 35 | 47.00 | 1.3 |
| ALOJ | 76.80 | 342 P | 35 | 47.00 | 1.2 |
| ATEJ | 79.00 | 50 iPd | 35 | 48.00 | 1.4 |
| AAPN | 79.01 | 50 iPd | 35 | 48.20 | 1.2 |
| ACHM | 79.05 | 50 iPd | 35 | 48.70 | 1.6 |
| APHE | 79.21 | 50 iPd | 36 | 12.50 | 0.8 |
| ASMO | 79.27 | 50 iPd | 36 | 14.20 | 0.0 |
| TOL | 79.35 | 50 iPd | 36 | 15.40 | 0.0 |
| EPF | 79.94 | 47 iPd | 36 | 16.00 | 0.4 |
| LPF | 1.1s | 63.29nm | 36 | 17.20 | 0.4 |
| GRR | 84.04 | 45 eP | 36 | 17.30 | 0.2 |
| LFF | 0.8s | 12.00nm | 36 | 19.80 | -0.4 |
| LPO | 84.59 | 40 eP | 36 | 23.10 | -0.4 |
| FLN | 0.6s | 16.10nm | 36 | 24.40 | -0.4 |
| CAF | 84.82 | 40 eP | 36 | 25.80 | -0.9 |
| MAF | 0.8s | 16.20nm | 36 | 26.50 | -1.1 |
| INK | 85.09 | 44 eP | 36 | 27.50 | -0.7 |
| BGF | 0.6s | 7.20nm | 36 | 28.00 | -0.9 |
| AVF | 85.17 | 40 eP | 36 | 30.00 | -0.6 |
| SSF | 0.9s | 26.20nm | 36 | 32.50 | -0.5 |
| SMF | 85.76 | 44 eP | 36 | 33.00 | -0.4 |
| LOR | 0.8s | 5.30nm | 36 | 34.40 | 0.0 |
| MBC | 86.44 | 43 eP | 36 | 36.80 | 0.1 |
| LRG | 0.6s | 6.30nm | 36 | 36.40 | -0.8 |
| LMR | 86.55 | 341 ePd | 36 | | |
| FRF | 86.71 | 42 eP | 36 | | |
| DOU | 0.8s | 19.30nm | 36 | | |
| LPG | 87.11 | 42 eP | 36 | | |
| SBF | 0.6s | 4.50nm | 36 | | |
| | 87.28 | 42 eP | 36 | | |
| | 0.8s | 3.20nm | 36 | | |
| | 87.40 | 42 eP | 36 | | |
| | 0.8s | 13.40nm | 36 | | |
| | 87.57 | 42 eP | 36 | | |
| | 0.7s | 5.90nm | 36 | | |
| | 88.04 | 350 eP | 36 | | |
| | 0.7s | 14.00nm | 37 | | |
| | 88.41 | 46 eP | 36 | | |
| | 0.8s | 6.40nm | 36 | | |
| | 88.49 | 46 eP | 36 | | |
| | 0.6s | 3.60nm | 36 | | |
| | 88.63 | 46 eP | 36 | | |
| | 0.7s | 6.60nm | 36 | | |
| | 88.72 | 39 P | 36 | | |
| | 0.8s | 23.30nm | 36 | | |
| | 89.11 | 44 eP | 36 | | |
| | 0.7s | 11.40nm | 36 | | |
| | 89.25 | 46 eP | 36 | | |

| | | | | | |
|------|--------|----------|----|-------|--------|
| WLF | 0.8s | 5.30nm | 36 | 38.20 | -0.3 |
| CDF | 89.61 | 40 P | 36 | 40.00 | -0.9 |
| DAG | 90.07 | 41 eP | 36 | 30.30 | -10.2X |
| FBA | 0.8s | 8.00nm | 36 | 40.50 | -1.1 |
| KBA | 90.14 | 11 eP | 36 | 54.50 | 47km |
| NB2 | 90.32 | 336 P | 36 | 57.60 | -1.0 |
| HFS | 0.8s | 17.24nm | 37 | 01.20 | 0.2 |
| CIN | 93.88 | 43 iPc | 37 | 01.40 | -4.6X |
| WB5 | 94.51 | 29 P | 37 | 47.00 | 1.4 |
| BJI | 0.8s | 4.90nm | 43 | 07.80 | -4.2X |
| HHC | 146.72 | 346 ePKP | 43 | 19.00 | -2.5 |
| MTN | 146.81 | 352 PKP | 43 | 21.50 | -0.3 |
| GTA | 147.66 | 231 ePKP | 43 | 24.80 | 0.8 |
| TIY | 148.12 | 9 PKP | 43 | 35.10 | 8.6X |
| GBA | 149.75 | 350 ePKP | 43 | 32.00 | 2.7 |
| KOD | 151.35 | 76 PKP | 43 | 43.00 | 12.7X |
| S.D. | 151.70 | 83 ePKP | 43 | | |

S.D. = 1.2 on 81 of 93 obs.
 FEB 19, 1989 04h 32m 01.68±4.83s
 38.909 N ±11.3km 142.554 E ±45.0km
 DEPTH = 33.0km (normal)
 NEAR EAST COAST OF HONSHU, JAPAN(228)

| | | | | | |
|------|------|---------|----|-------|------|
| OFUJ | 0.71 | 284 iPd | 32 | 13.70 | -1.5 |
| YAMJ | 2.11 | 250 P | 32 | 23.10 | -0.9 |
| AOMJ | 2.35 | 315 eP | 32 | 34.40 | 0.8 |
| NIJ | 3.26 | 240 P | 32 | 39.60 | 0.6 |
| KAKJ | 3.30 | 216 P | 32 | 52.30 | -1.7 |
| CHJJ | 4.02 | 226 P | 33 | 02.40 | -0.1 |
| MAT | 4.18 | 237 eP | 33 | 06.00 | 1.3 |
| MTMJ | 4.42 | 240 P | 33 | 09.00 | 0.7 |
| IIDJ | 5.04 | 229 P | 33 | 17.80 | 0.7 |

S.D. = 1.3 on 9 of 9 obs.
 FEB 19, 1989 04h 58m 23.94±0.33s
 34.595 N ±4.1km 136.477 E ±3.0km
 DEPTH = 52.7 ±2.9 km
 4.8mb (15 obs.) 4.1MsZ (1 obs.)
 SOUTHERN HONSHU, JAPAN (232)
 Felt (III JMA) at Gifu, Nara, Tsu and Owase; (II JMA) at Hikone, Kyoto, Osaka and Nagoya; (I JMA) at Kobe and Hamamatsu. Also felt (I JMA) at Sumoto, Shikoku.

| | | | | | |
|------|------|---------|----|-------|--------|
| TSU | 0.11 | 18 iP+ | 58 | 31.20 | -1.0 |
| NAR | 0.54 | 280 eP | 58 | 36.30 | 0.1 |
| OWA | 0.58 | 204 iPd | 58 | 44.40 | 0.1 |
| NAG | 0.70 | 35 iP+ | 58 | 36.40 | 0.4 |
| HIK | 0.70 | 344 iP | 58 | 37.50 | -0.4 |
| KYO | 0.74 | 304 iPd | 58 | 44.50 | -0.2 |
| OSA | 0.79 | 276 iP+ | 58 | 47.50 | 0.0 |
| WKYJ | 0.82 | 243 iP+ | 58 | 39.10 | -0.1 |
| GIF | 0.84 | 16 iPd | 58 | 50.60 | 0.0 |
| TSRJ | 1.02 | 337 iPd | 58 | 39.60 | -0.3 |
| HMM | 1.03 | 83 P | 58 | 41.90 | 0.2 |
| SUM | 1.32 | 259 P | 58 | 42.50 | 0.0 |
| IIDJ | 1.47 | 53 iP+ | 58 | 56.80 | -46.4X |
| TKSJ | 2.10 | 254 iP+ | 58 | 08.10 | -0.4 |
| | | | 59 | 08.40 | 0.4 |

19d 04h

MTMJ 2.26 28 iP+ S 59 23.00 -0.3
 MAT 2.40 36 iPc S 59 24.10 -0.2
 CHJJ 2.52 54 iP+ S 59 31.10 0.1
 YONJ 2.55 284 iP+ S 59 03.30 0.0
 SHK 3.14 270 iPc S 59 32.90 -0.2
 KAKJ 0.7s 2876.71nm 59 11.90 -0.6
 SHNJ 3.42 61 iPd 59 15.40 -0.1
 YAMJ 4.47 265 iP+ 59 30.60 0.0
 KUMJ 4.58 38 P 59 32.40 0.1
 KAGJ 5.14 248 P 59 40.40 0.0
 OFUJ 5.80 236 P 59 49.50 0.0
 AOMJ 6.11 41 iP+ 59 53.90 0.0
 MDJ 0.1 01.80 0.3
 SNY 0.02 02.50 1.1
 N 0.01 06.70 -0.3
 CN2 12.55 320 eP 01 20.30 0.1
 Z 0.03 34.00 0.1
 E 0.01 22.00 0.1
 DL2 12.66 294 eP 01 27.00 2.3
 SSE 13.32 259 Pd 01 25.80 1.8
 Z 0.01 34.00 5.0mb X
 NJ2 14.95 265 Pd 01 08.00 5.6msz X
 Z 0.01 55.00 1.5
 TIA 15.87 281 eP 02 05.80 0.6
 Z 0.02 05.80 0.6
 N 0.05 07.00 0.7
 BJI 17.03 295 eP 02 20.50 0.7
 Z 0.02 20.50 0.7
 N 0.05 28.00 0.9
 QZH 18.24 243 eP 02 34.00 -0.9
 WHN 19.07 264 iPd 02 45.50 0.6
 N 0.02 45.50 0.6
 TIY 19.65 286 eP 06 17.00 -0.4
 N 0.02 50.80 2.1mb X
 HHC 20.64 295 eP 06 31.00 0.9
 BTO 21.76 294 eP 06 43.00 -1.3
 N 0.03 00.60 0.9
 E 0.03 11.50 0.9
 GUA 22.31 158 eP 03 48.50 30.2X
 XAN 22.74 276 P 03 24.00 1.5
 GZH 23.23 247 eP 03 27.50 0.4
 LZH 26.60 283 eP 03 58.00 -1.2
 Z 0.03 58.00 5.1mb
 GYA 1.5s 88.00nm 04 00.80 -0.9
 CD2 20s 0.50um 04 08.10 -1.0
 GTA 26.86 261 iPc 04 24.30 -1.4
 N 0.04 00.80 1.0
 CHG 36.79 254 iPc 05 29.50 1.0
 Z 0.05 29.50 5.2mb
 BDT 1.0s 34.25nm 05 34.60 -0.8
 WMQ 37.61 252 eP 05 42.00 -0.1
 Z 0.05 42.00 4.2msz X
 LSA 38.44 276 P 05 43.20 0.3
 NNT 39.85 246 iPc 05 55.00 1.0
 IPM 44.38 236 ePc 06 31.90 0.8
 PSI 47.18 236 ePd 06 53.00 -0.3
 KSH 47.76 294 eP 06 58.50 0.7
 IMA 50.80 30 eP 07 21.70 0.9
 Z 0.07 21.70 4.6mb
 PMR 52.95 35 eP 07 34.00 -0.2
 FBA 53.28 31 eP 07 36.60 0.8
 HYB 54.10 267 iPd 07 45.30 -0.6
 Z 0.07 45.30 5.4mb
 WB5 1.0s 40.00nm 07 45.10 -1.3
 WRA 54.21 182 eP 07 48.00 -0.9
 Z 0.07 48.00 4.2mb
 GBA 0.5s 1.40nm 08 05.30 -1.4

ASPA 0.7s 7.80nm 4.9mb
 INK 57.99 183 eP 08 14.00 0.5
 MBC 58.36 26 eP 08 15.00 -0.6
 ALE 0.8s 10.00nm 08 28.00 46kmX
 SOD 59.97 16 eP 08 26.00 -0.7
 KJF 0.8s 20.50nm 08 45.00 -0.4
 YKA 62.76 3 eP 08 5.00 5.3mb
 SUF 1.1s 28.00nm 09 15.20 11.0X
 NUR 65.62 336 iP 09 11.80 -0.7
 EDM 66.92 333 iP 09 27.80 5.2mb
 HFS 0.8s 20.50nm 09 20.60 2.0
 N82 67.89 28 P 09 20.30 -0.9
 SES 68.31 332 iP 09 57.40 -1.4
 FFC 0.5s 2.50nm 09 30.80 -1.7
 CMB 70.16 331 iP 09 54.50 0.7
 MLR 73.71 36 eP 09 57.40 -1.4
 LRM 74.59 334 eP 09 58.80 -1.3
 BRG 0.6s 1.00nm 10 11.00 0.8
 CLL 74.82 336 P 10 24.00 44kmX
 KHC 76.56 37 eP 10 17.50 0.2
 SKO 0.7s 8.00nm 10 22.40 1.1
 KBA 78.54 52 ePc 10 20.00 -1.5
 OHR 78.57 318 eP 10 23.40 1.3
 ALO 78.66 42 eP 10 35.60 19.7X
 ARE 81.01 327 e(P) 10 53.70 18.9X
 ZOBO 81.12 328 iP 10 37.50 -4.2X
 LPB 82.42 326 eP 10 59.00 1.0
 CNCB 83.33 317 eP 10 47.50 -1.0
 S.D. = 0.9 on 79 of 89 obs.
 FEB 19, 1989 08h 21m 04.56 ± 0.62s
 43.059 N ± 3.4km 13.616 E ± 8.4km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)
 MD 3.4 (TRI), 3.0 (SSO).
 SSO 0.27 329 e(Pg) 21 12.14 1.8
 ALP 0.28 186 iPg 21 17.41 0.5
 CIO 0.37 292 iPg 21 10.99 0.4
 AOI 0.49 359 iPg 21 15.08 1.4
 ARV 0.66 312 Pd 21 25.08 -0.3
 AQU 0.72 193 P 21 25.08 -0.9
 MNS 0.96 226 P 21 17.40 -1.2
 AZI 1.08 187 P 21 26.10 1.1
 RSM 1.21 316 P 21 27.90 0.6
 SDI 1.36 174 P 21 45.20 0.7
 RMP 1.42 209 P 21 30.30 0.3
 RDP 1.46 207 P 21 49.20 -0.2
 PGD 1.60 301 P 21 30.80 -0.1
 TRI 2.65 2 ePn 21 47.00 -1.1
 CTI 3.30 335 P 22 17.70 22.30.00
 RBL 3.38 359 P 22 28.30 22.30.00
 FVI 3.58 351 P 22 35.00 22.30.00
 KBA 4.02 357 iPg 22 56.10 -1.3
 e 22 58.10 -0.4
 e 22 60.20 -1.0
 S.D. = 1.0 on 17 of 18 obs.

* FEB 19, 1989 08h 26m 50.67 ± 0.96s
 43.019 N ± 5.8km 13.501 E ± 10.4km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)
 MD 2.4 (SSO).
 ALP 0.24 167 iPg 26 56.25 0.3
 CIO 0.32 304 iPg 27 01.09 0.5
 AOI 0.54 8 iPg 27 03.86 0.2
 ARV 0.63 320 Pd 27 01.37 -0.2
 MNS 0.88 224 P 27 03.10 -0.2
 eSg 27 12.40 0.4
 S.D. = 0.6 on 5 of 5 obs.
 FEB 19, 1989 08h 36m 28.04 ± 0.87s
 39.233 N ± 9.0km 27.801 E ± 11.3km
 DEPTH = 24.3 ± 15.2 km
 TURKEY (366)
 DST 0.74 60 ePg 36 42.10 -0.2
 IZM 0.93 207 ePn 36 45.50 0.0
 KCT 1.10 23 iPn 36 48.40 0.4
 EDC 1.11 2 ePn 36 47.70 -0.4
 BNT 1.13 5 iPn 36 48.40 0.1
 EZN 1.29 298 ePn 36 50.50 0.0
 S.D. = 0.4 on 6 of 6 obs.
 FEB 19, 1989 08h 50m 49.18 ± 0.81s
 48.045 N ± 8.7km 148.081 E ± 5.6km
 DEPTH = 338.5 ± 11.0 km
 4.6mb (16 obs.)
 NORTHWEST OF KURIL ISLANDS (220)
 ASAJ 5.45 226 P 52 17.70 3.8X
 KUSJ 5.48 207 P 53 24.60 -1.9
 HOIJ 6.60 213 P 53 12.30 1.6
 MRRJ 7.48 224 eP 53 16.40 -1.4
 OFUJ 10.09 210 P 53 25.70 1.3
 YAMJ 11.48 214 P 53 27.40 1.7
 MDJ 13.23 262 eP 53 47.80 1.0
 MAT 13.61 216 eP 53 50.00 -1.4
 MTMJ 13.73 217 P 53 52.00 -0.9
 CHJJ 13.74 213 P 53 52.40 -0.6
 IJDJ 14.65 215 P 54 02.80 -0.3
 CN2 16.29 263 Pd 54 18.40 -2.0
 SNY 18.39 259 eP 54 40.90 -0.9
 DL2 21.17 254 eP 55 10.00 0.9
 BJI 24.16 263 eP 55 39.50 2.5
 HHC 26.85 268 eP 56 02.00 0.5
 TIY 27.86 261 eP 56 11.00 0.5
 WHN 31.09 248 P 56 37.50 -1.1
 XAN 32.31 259 P 56 49.50 0.3
 TTA 33.76 43 eP 57 02.50 1.2
 BRW 34.37 28 eP 57 06.80 0.7
 LZH 34.49 266 eP 57 08.50 0.7
 IMA 1.5s 0.10nm 57 11.30 1.2
 GTA 34.81 37 iPc 57 11.30 4.8mb
 KDC 0.7s 31.40nm 57 16.00 0.4
 PMR 35.43 274 P 57 20.00 -0.1
 FBA 36.02 52 e(P) 57 29.70 0.8
 CD2 37.07 45 eP 57 32.20 1.5
 TOA 0.7s 10.00nm 57 34.80 0.6
 GYA 37.30 39 iPc 57 41.50 1.8
 INK 37.67 259 eP 57 43.00 -0.4
 MBC 42.40 33 iPc 58 12.90 0.6
 CHG 44.54 20 eP 58 29.00 -0.2
 YKA 49.19 251 eP 59 06.00 0.2
 YKC 51.90 36 P 59 25.60 0.1
 51.96 36 iPc 59 25.50 -0.4
 0.7s 15.00nm 59 48.00 -1.1
 DAG 55.18 356 eP 00 03.00 0.0
 PNT 57.11 51 eP 00 14.00 -0.3
 KJF 58.79 334 eP 00 24.50 -0.5
 SUF 60.36 333 iP 0.3s 2.60nm 4.2mb

19d 09h

SES

60.75

46

ePc

00

27.60

-0.2

WDC

60.92

61

e(P)

00

29.70

0.7

FFC

61.89

38

iPc

00

35.00

-0.2

0.8s

25.00nm

4.8mb

ORV

62.19

61

ePc

00

35.20

-2.2

NUR

62.52

332

iP

00

38.80

-0.4

CMB

63.85

62

ePc

00

48.00

-0.2

FRB

64.88

17

eP

00

52.00

-2.3

FRI

64.95

62

e(P)

00

55.90

0.8

NB2

65.84

339

P

00

59.30

-1.2

0.7s

11.30nm

4.7mb

HFS

65.99

337

eP

01

00.30

-1.1

0.7s

14.70nm

4.8mb

WRA

68.79

194

Pd

01

20.70

1.7

0.5s

0.80nm

3.7mb

GOL

71.08

51

eP

01

32.30

-0.7

1.0s

5.25nm

4.2mb

CLL

73.80

333

iPc

01

47.30

-0.9

0.8s

15.00nm

4.8mb

ALQ

73.99

55

eP

01

49.00

-0.9

1.1s

6.01nm

4.2mb

EKA

74.20

343

P

01

51.00

0.6

3.0s

299.90nm

5.5mb

PRU

74.46

331

P

01

58.00

6.0X

KHC

75.52

331

eP

01

58.00

0.0

GRF

75.77

333

eP

01

59.80

0.4

0.7s

16.00nm

4.9mb

MEM

76.46

336

P

02

03.60

0.5

KBA

77.38

330

ePc

02

08.50

0.0

0.7s

7.70nm

4.6mb

MEO

78.33

51

eP

02

13.00

-0.7

1.0s

4.80nm

4.3mb

SIO

78.74

48

e(P)

02

15.70

-0.1

LNO

78.87

48

iPc

02

16.20

-0.1

TUL

78.87

48

eP

02

16.40

-0.1

1.3s

10.60nm

4.5mb

RLO

79.05

47

iP

02

17.00

-0.5

GAC

79.16

29

eP

02

17.50

-0.3

VVO

79.35

48

ePc

02

19.30

0.3

BAO

145.07

28

ePKP

09

28.30

-19.8X

ITA

152.42

26

ePKP

10

18.40

18.9X

S.D. = 1.0 on 64 of 68 obs.

FEB 19, 1989 08h 52m 31.56± 0.47s

40.244 N ± 5.3km 21.877 E ± 3.1km

DEPTH = 10.0km (geophysicist)

GREECE (364)

MD 3.7 (ATH).

KZN

0.10

308

iPg

52

34.60

0.2

LIT

0.49

107

ePg

52

40.70

-0.8

GRG

0.82

29

ePg

52

46.30

-1.1

0s

53

01.60

KBN

0.90

295

iPg

52

48.00

-0.7

THE

0.92

65

ePg

52

49.10

0.0

0s

53

02.60

OHR

1.19

317

iPg

52

52.50

-1.3

VAY

1.20

26

iPg

52

53.50

-0.4

0s

53

07.00

KNT

1.20

40

ePb

52

53.90

0.0

0s

53

13.90

PLG

1.21

83

ePg

52

54.10

0.0

SOH

1.27

62

ePb

52

55.30

0.2

0s

53

15.20

NEO

1.40

132

iPbc

52

56.70

-0.4

PAIG

1.42

102

ePb

52

56.20

-1.2

0s

53

18.90

BERA

1.54

288

iPnc

52

59.70

0.6

SRS

1.57

56

ePb

52

59.40

-0.1

0s

53

24.10

OUR

1.61

86

ePb

53

01.40

1.3

PHP

1.81

323

iPnc

53

02.20

-0.7

VLO

1.83

278

iPnd

53

04.60

1.3

TIR

1.88

306

ePn

53

06.00

2.0

MMB

1.94

46

eP

53

55.00

50.0X

0s

54

03.00

KKS

2.14

329

ePn

53

08.00

0.3

VLS

2.29

206

ePb

53

14.40

4.4X

BCI

2.52

328

ePn

53

12.30

-0.9

SDA

2.52

315

ePn

53

17.60

4.4X

WTS

2.55

23

eP

53

15.00

1.2

0s

54

00.00

RZN

2.59

55

eP

53

15.00

0.6

0s

53

59.00

JLC

2.63

312

ePn

53

16.50

1.8

0s

53

52.00

ATH

2.68

147

ePn

53

15.80

0.3

PVY

2.75

329

ePn

53

16.50

-0.1

0s

53

52.50

PLD

2.83

48

eP

53

31.00

13.4X

PGB

2.88

36

eP

53

25.00

6.7X

RDO

2.93

71

ePn

53

18.00

-0.9

TTG

2.94

319

ePn

53

18.00

-1.1

0s

53

56.20

KDZ

3.03

61

iPd

53

24.00

3.6X

BDV

3.07

313

ePn

53

20.00

-1.0

0s

54

00.00

DIM

3.30

56

eP

53

30.00

5.7X

BRY

3.65

318

ePn

53

28.00

-1.3

0s

54

13.00

PVL

3.94

40

eP

53

40.00

6.7X

SSR

4.62

359

ePc

53

55.00

12.0X

MLR

6.04

28

eP

54

05.00

1.9

VRI

6.65

31

eP

54

13.00

1.3

VBY

7.16

319

eP

54

18.90

0.1

0s

55

56.00

PSZ

7.80

350

eP

54

27.00

-0.9

LJU

7.90

320

eP

54

58.00

28.8X

0s

56

15.00

VOY

8.21

317

e(P)

54

30.50

-3.2X

0s

55

59.10

S.D. = 1.0 on 33 of 44 obs.

% FEB 19, 1989 10h 22m 46.79± 0.63s

46.894 N ± 7.1km 0.441 E ± 6.3km

DEPTH = 10.0km (geophysicist)

FRANCE (538)

ML 3.0 (LDG).

MFF

0.50

234

Pg

22

58.00

1.1

0s

23

06.20

LSF

0.99

130

Pg

23

04.70

-0.9

0s

23

17.20

TCF

1.36

116

Pg

23

10.90

-0.9

0s

23

27.00

LPF

1.52

319

Pn

23

13.00

-1.0

0s

23

14.70

MAF

1.61

114

Pn

23

13.40

-2.0

0s

23

15.40

BGF

1.69

101

Pg

23

16.20

-0.3

0s

23

35.10

GRR

1.73

330

Pn

23

15.70

-1.4

0s

23

17.70

0s

23

40.50

LDF

1.74

348

Pg

23

17.50

0.3

0s

23

38.80

RJF

1.76

154

Pg

23

19.70

2.2

0s

23

42.30

LFF

1.97

174

Pg

23

24.70

4.2X

0s

23

49.80

FLN

1.97

342

Pg

23

21.40

0.9

0s

23

46.00

AVF

2.00

92

Pg

23

21.00

0.0

0s

23

45.10

SSF

2.11

84

Pg

23

22.60

0.1

0s

23

48.60

CAF

2.27

149

Pn

23

23.00

-2.0

0s

23

29.30

0s

23

58.60

LPO

2.27

166

Pg

23

29.60

4.7X

0s

23

58.70

SMF

2.35

95

Pg

23

27.50

1.4

0s

23

55.80

LOR

2.37

80

Pg

23

27.30

1.0

0s

23

56.50

LBF

2.42

87

Pg

23

28.60

1.5

0s

23

57.90

S.D. = 1.4 on 16 of 18 obs.

FEB 19, 1989 10h 39m 03.49± 0.15s

2.014 S ± 3.0km 138.921 E ± 3.5km

DEPTH = 33.0km (normol)

5.5mb (38 obs.) 4.6msz (12 obs.)

WEST IRIAN (201)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 11S, 20C

Centroid Location:

Origin Time 10:39: 6.9 0.9

Lat 1.90S 0.08 Lon 138.58E 0.12

Dep 26.1 7.0 Half-duration 1.7

Moment Tensor: Scale 10**16 Nm

Mrr= 5.05 0.54 Mtt=-4.42 0.53

Mff=-0.63 0.75 Mrt=-7.62 2.23

Mrf= 3.76 1.64 Mtf= 2.58 0.55

Principal Axes:

T Val= 9.72 Plg=61 Azm=206

N 0.68 0 296

P -10.40 29 27

Best Double Couple: Mo=1.0*10**17

NP1: Strike=117 Dip=16 Slip= 91

NP2: 296 74 90

JAY

1.85

106

iPc

39

31.00

-2.5

MNDI

6.26

131

eP

40

39.00

2.7

TLE

7.13

240

iPd

40

50.70

2.5

LAT

9.28

120

eP

41

18.00

-0.1

AAI

10.84

261

eP

41

40.50

1.0

0.4s

45.20nm

6.0mb

PMG

11.00

132

eP

41

41.00

-0.7

1.0s

300.00nm

6.4mb

MTN

13.24

215

eP

42

10.00

-1.8

DAV

16.10

304

eP

42

48.10

-1.0

GUA

16.55

21

eP

42

54.50

-0.4

1.0s

184.00nm

5.2mb

GUMO

16.58

21

eP

42

54.50

-0.8

0.9s

272.80nm

5.4mb

PJG

16.58

21

eP

42

53.90

-1.4

PAA

17.06

105

eP

43

03.00

1.6

WB5

18.31

194

eP

43

14.50

-2.2

0s

46

29.00

WRA

18.37

194

Pd

43

14.70

-2.9

0.6s

120.60nm

5.2mb

QIS

18.44

178

eP

43

15.00

-3.4X

0s

43

19.00

0s

43

26.00

0s

46

37.00

0s

49

20.00

CTA

19.34

159

iPd

43

27.80

-1.4

0.9s

145.38nm

5.2mb

0s

43

53.20

0s

47

10.00

ASPA

22.07

192

iPc

43

57.50

0.1

0.9s

406.00nm

5.9mb

Z

19s

3.47um

4.8msz

0s

47

59.00

LR

52

45.40

HNR

22.17

110

eP

43

56.00

-2.4

0s

43

26.00

KHKI

24.05

254

ePc

44

16.80

0.0

0s

48

10.00

BAG

25.75

316

eP

44

34.20

0.9

1.1s

65.82nm

5.1mb

RMQ

26.10

160

iPc

44

44.10

7.9X

1.2s

662.00nm

6.1mb

0s

45

00.00

MBL

26.61

223

iPc

44

41.20

0.3

0.6s

61.00nm

5.4mb

0s

49

50.00

WARB

26.77

205

iPc

44

34.30

-8.1X

0s

44

46.70

TRT

26.78

257

ePc

44

46.70

4.1X

0s

45

09.20

STK

29.81

175

iPc

45

09.20

-0.6

0.8s

63.00nm

5.4mb

CMS

30.03

168

eP

45

12.00

0.3

0s

45

12.00

FORR

30.45

199

iPc

45

15.20

-0.2

0.5s

126.00nm

6.0mb

0s

45

16.40

NANU

30.55

226

iPc

45

16.40

0.0

0.5s

18.00nm

5.1mb

COO

30.95

158

eP

45

20.00

0.1

0s

45

22.00

MEKA

31.33

217

eP

45

23.00

-0.2

0s

45

23.00

ADE

32.79

180

iPc

45

36.30

0.4

1.0s

400.00nm

6.3mb

QZH

33.27

325

P

45

38.70

-1.4

0s

45

39.70

COOL

33.28

209

iPc

45

39.70

-0.5

0s

45

39.50

DZM

33.37

129

iPc

45

39.50

-1.7

0s

45

41.90

BWA

33.44

166

eP

45

41.90

0.3

0s

45

44.80

CAN

34.44

165

iPc

45

50.20

0.0

0s

45

51.80

CNB

34.53

165

iPd

45

51.30

0.3

0s

45

51.30

BAL

35.37

214

iPc

45

58.20

0.0

0.6s

45.00nm

5.6mb

QIZ</

| | | | | | | | | | | | | | | | | | | | |
|------|-------|---------|----------|-------|--------|------|--------|------------|----|-------|--------|--|------|--------|-----------|----------|--------|-------|-------------------------------|
| Z | 20s | | 1.30um | | 4.7Msz | KSH | 70.74 | 313 P | 50 | 20.40 | 1.7 | | | 0.8s | | 7.20nm | | | |
| N | 20s | | 0.60um | | | PPN | 71.90 | 108 iP | 50 | 29.30 | 3.4X | | TCF | 121.98 | 326 ePKP | 57 | 56.50 | 0.2 | |
| E | 20s | | 1.00um | | | | 1.0s | 25.00nm | | | 5.2mb | | | 0.8s | | 16.10nm | | | |
| SSE | 37.00 | 334 Pd | 46 | 11.20 | -0.7 | PMO | 73.24 | 105 iP | 50 | 35.60 | 1.8 | | LSF | 122.38 | 326 ePKP | 57 | 56.90 | -0.2 | |
| | 1.0s | | 27.00nm | | 5.1mb | | 1.0s | 40.00nm | | | 5.4mb | | | 0.8s | | 10.70nm | | | |
| Z | 20s | | 0.56um | | 4.4Msz | VAH | 73.50 | 105 iP | 50 | 36.90 | 1.6 | | CAF | 122.86 | 325 ePKP | 57 | 58.80 | 0.8 | |
| N | 18s | | 0.66um | | | | 1.0s | 25.00nm | | | 5.2mb | | | 0.8s | | 8.00nm | | | |
| E | 18s | | 0.68um | | | TPT | 73.50 | 105 iP | 50 | 37.20 | 1.9 | | RJF | 122.95 | 325 ePKP | 57 | 58.80 | 0.6 | |
| | | i | | 46 | 45.00 | | 1.0s | 35.00nm | | | 5.3mb | | | 0.6s | | 5.40nm | | | |
| | | PcP | 48 | 33.00 | | RUV | 73.74 | 105 iP | 50 | 38.30 | 1.6 | | LPO | 123.51 | 325 ePKP | 58 | 00.20 | 0.9 | |
| | | S | 51 | 58.00 | | | 1.0s | 35.00nm | | | 5.3mb | | | 0.8s | | 19.80nm | | | |
| CHJJ | 37.87 | 0 eP | 46 | 18.20 | -0.9 | QUE | 75.50 | 302 iPc | 50 | 47.80 | 0.8 | | LFF | 123.61 | 325 ePKP | 58 | 00.10 | 0.6 | |
| RKG | 37.89 | 210 eP | 46 | 24.00 | 4.6X | KDC | 80.43 | 30 eP | 51 | 13.70 | 0.5 | | | 0.9s | | 20.90nm | | | |
| | 0.8s | | 33.00nm | | 5.2mb | TTA | 80.69 | 25 eP | 51 | 15.00 | 0.3 | | EPF | 124.98 | 324 ePKP | 58 | 02.70 | 0.4 | |
| MAT | 38.36 | 359 (P) | 46 | 23.00 | -0.3 | MAIO | 82.67 | 307 iPc | 51 | 26.80 | 1.3 | | | 0.8s | | 6.70nm | | | |
| | | eS | 52 | 20.00 | | | 1.0s | 20.00nm | | | 5.1mb | | GAC | 127.07 | 30 ePKP | 58 | 06.50 | 0.4 | |
| MTMJ | 38.42 | 359 eP | 46 | 25.30 | 1.5 | | | eS | 01 | 52.00 | | | ASMO | 130.86 | 320 ePKP | 58 | 13.50 | -0.3 | |
| IPM | 38.43 | 280 ePc | 46 | 24.10 | -0.1 | IMA | 82.83 | 22 eP | 51 | 26.10 | 0.3 | | APHE | 131.07 | 320 ePKP | 58 | 14.00 | -0.2 | |
| | 1.0s | | 125.30nm | | 5.7mb | | 1.0s | 5.00nm | | | 4.6mb | | AAPN | 131.13 | 320 ePKP | 58 | 14.00 | -0.3 | |
| PII | 38.54 | 272 ePc | 46 | 25.70 | 0.6 | PMR | 83.26 | 27 eP | 51 | 27.20 | -0.6 | | KUK | 139.19 | 277 ePKP | 58 | 21.00 | -9.0X | |
| | 1.0s | | 110.90nm | | 5.6mb | | 0.9s | 18.70nm | | | 5.2mb | | KIC | 143.51 | 278 PKP | 58 | 34.78 | -2.8 | |
| NJ2 | 38.86 | 332 Pd | 46 | 28.00 | 0.5 | BRW | 83.88 | 17 eP | 51 | 31.20 | 0.3 | | | 0.7s | | 62.00nm | | | |
| Z | 20s | | 0.60um | | 4.4Msz | TOA | 84.75 | 27 eP | 51 | 36.00 | 0.5 | | TIC | 143.76 | 278 PKP | 58 | 35.62 | -2.4 | |
| | | S | 52 | 25.00 | | FBA | 84.78 | 24 eP | 51 | 34.10 | -1.4 | | | 0.7s | | 124.00nm | | | |
| NIJJ | 39.05 | 0 eP | 46 | 27.50 | -1.5 | SPA | 88.00 | 180 iPc | 51 | 51.90 | 0.4 | | LIC | 143.81 | 278 PKP | 58 | 35.68 | -2.4 | |
| SNG | 39.30 | 284 eP | 46 | 32.10 | 0.7 | | 1.0s | 75.00nm | | | 5.9mb | | ARE | 144.80 | 123 ePKP | 58 | 40.00 | -0.1 | |
| | 0.8s | | 180.60nm | | 5.9mb | | | i | 52 | 04.60 | | | HJA | 145.50 | 138 ePKPc | 58 | 42.60 | 1.9 | |
| | | e | 48 | 41.00 | | AVY | 90.48 | 251 eP | 52 | 04.18 | 0.1 | | CNCB | 147.52 | 126 PKP | 58 | 47.00 | 2.1 | |
| WHN | 39.96 | 326 P | 46 | 38.00 | 1.4 | INK | 90.95 | 22 eP | 52 | 05.00 | 0.0 | | LPB | 147.58 | 126 PKP | 58 | 47.00 | 2.2 | |
| | | sP | 46 | 46.50 | | MBG | 94.73 | 14 eP | 52 | 21.00 | -1.4 | | ZOBO | 147.69 | 125 PKP | 58 | 46.50 | 1.3 | |
| | | S | 52 | 44.00 | | YKA | 99.35 | 27 P | 52 | 44.30 | 0.8 | | | 1.0s | | 57.50nm | | | |
| PSI | 40.26 | 277 iPc | 46 | 40.00 | 0.6 | MLR | 107.41 | 317 ePKP | 57 | 29.00 | 0.3 | | Z | 20s | | 0.09um | | | 4.5Msz |
| | 0.9s | | 209.90nm | | 5.9mb | FFC | 108.08 | 32 ePKP | 57 | 30.00 | 0.5 | | | | LR | 25 | 24.00 | | |
| TAU | 41.40 | 171 eP | 46 | 49.00 | 0.7 | | 0.8s | 6.00nm | | | | | CCH | 148.66 | 129 ePKP | 58 | 50.00 | 3.6X | |
| LOE | 41.43 | 299 iPc | 46 | 45.50 | -3.4X | GOL | 110.90 | 48 ePKP | 57 | 36.50 | 0.8 | | VAO | 154.48 | 167 ePKP | 59 | 03.60 | 9.2X | |
| NNT | 41.52 | 291 iPc | 46 | 49.80 | 0.1 | | 1.1s | 5.38nm | | | | | | e | 59 | 17.80 | | | |
| GYA | 42.08 | 314 iPc | 46 | 55.00 | 0.7 | ALQ | 111.22 | 53 ePKP | 57 | 37.00 | 0.6 | | BMA | 155.26 | 173 ePKP | 59 | 06.20 | 10.8X | |
| | | sP | 47 | 04.00 | | | 1.0s | 6.25nm | | | | | | e | 59 | 21.00 | | | |
| | | S | 53 | 17.00 | | KHC | 113.96 | 324 PKP | 57 | 41.00 | 0.0 | | | | | | | | S.D. = 1.0 on 144 of 155 obs. |
| NST | 42.18 | 296 iPc | 46 | 56.80 | 1.7 | VBY | 114.48 | 320 e(PKP) | 57 | 42.30 | 0.3 | | | | | | | | |
| TIA | 43.12 | 334 Pc | 47 | 01.80 | -0.7 | KBA | 115.02 | 322 ePKP | 57 | 42.00 | -1.3 | | | | | | | | |
| | Z 22s | | 0.80um | | 4.6Msz | VOY | 115.13 | 321 ePKP | 57 | 43.10 | -0.3 | | | | | | | | |
| | N 15s | | 0.50um | | | FRB | 115.19 | 13 ePKP | 57 | 42.00 | -0.8 | | | | | | | | |
| | | eS | 53 | 24.00 | | MEO | 117.50 | 52 ePKP | 57 | 48.00 | -0.2 | | | | | | | | |
| DL2 | 43.72 | 340 P | 47 | 08.00 | 0.7 | | 1.2s | 12.40nm | | | | | | | | | | | |
| | | S | 53 | 34.00 | | VAI | 118.38 | 323 PKP | 57 | 48.60 | -0.8 | | | | | | | | |
| BDT | 43.76 | 298 eP | 47 | 07.50 | -0.5 | BSF | 118.52 | 325 ePKP | 57 | 49.30 | -0.5 | | ASS | 0.26 | 321 P | 39 | 44.80 | 0.3 | |
| | 1.1s | | 49.90nm | | 5.2mb | | 0.8s | 9.10nm | | | | | | | eSg | 39 | 49.20 | | |
| XAN | 45.63 | 324 Pc | 47 | 22.60 | -0.2 | HAU | 118.68 | 326 ePKP | 57 | 49.90 | -0.1 | | CIO | 0.38 | 31 iPgc | 39 | 46.72 | 0.0 | |
| SNY | 45.80 | 344 eP | 47 | 23.70 | -0.2 | | 0.6s | 7.20nm | | | | | | | iSg | 39 | 53.03 | | |
| | Z 21s | | 0.60um | | 4.5Msz | SIO | 118.94 | 50 ePKP | 57 | 50.70 | -0.1 | | MNS | 0.51 | 197 Pc | 39 | 49.20 | -0.1 | |
| | N 20s | | 0.60um | | | TUL | 119.28 | 49 ePKP | 57 | 51.90 | 0.4 | | | | eSg | 39 | 56.80 | | |
| | E 18s | | 0.40um | | | | 1.0s | 24.70nm | | | | | ALP | 0.52 | 100 iPg | 39 | 49.63 | 0.1 | |
| TIY | 46.52 | 331 eP | 47 | 29.20 | -0.6 | Z | 18s | | | | 5.1Msz | | | | iSg | 39 | 58.01 | | |
| | N 20s | | 2.00um | | | | | LR | 36 | 00.00 | | | ARV | 0.63 | 4 P | 39 | 51.40 | -0.2 | |
| BJI | 46.75 | 336 eP | 47 | 31.00 | -0.4 | LNO | 119.28 | 49 iPKP | 57 | 51.60 | 0.3 | | | | eSg | 40 | 01.10 | | |
| | Z 20s | | 0.61um | | 4.6Msz | VVO | 119.52 | 50 ePKP | 57 | 52.70 | 0.8 | | PGD | 1.31 | 320 P | 40 | 03.20 | -0.2 | |
| | | eS | 54 | 17.00 | | | | | | | | | | | | | | | S.D. = 0.3 on 6 of 6 obs. |
| | | eSS | 57 | 42.00 | | RLO | 119.77 | 49 iPKP | 57 | 52.50 | 0.1 | | | | | | | | |
| CDJ | 46.81 | 317 iPc | 47 | 32.70 | 0.5 | LPG | 119.78 | 323 ePKP | 57 | 52.70 | 0.2 | | | | | | | | |
| MDJ | 47.17 | 351 eP | 47 | 34.20 | -0.5 | | 0.8s | 9.40nm | | | | | | | | | | | |
| CN2 | 47.18 | 347 Pc | 47 | 34.00 | -0.9 | CVF | 119.91 | 319 ePKP | 57 | 52.60 | 0.1 | | | | | | | | |
| | Z 20s | | 0.90um | | 4.7Msz | | 0.8s | 11.80nm | | | | | | | | | | | |
| | | pP | 47 | 41.70 | 26kmX | SBF | 120.20 | 321 ePKP | 57 | 52.90 | -0.2 | | | | | | | | |
| | | eS | 54 | 20.00 | | | 0.8s | 11.80nm | | | | | | | | | | | |
| HHC | 49.41 | 333 eP | 47 | 52.00 | -0.4 | BNG | 120.43 | 274 iPKPc | 57 | 54.20 | -0.1 | | | | | | | | |
| BTO | 49.94 | 331 P | 47 | 56.00 | -0.4 | | 0.5s | 13.00nm | | | | | | | | | | | |
| | E 20s | | 1.40um | | | | | ic | 58 | 02.50 | | | HJA | 3.21 | 116 iPc | 24 | 09.10 | -2.6 | |
| | | pP | 48 | 05.00 | 30kmX | | | ic | 59 | 28.10 | | | | | S | 24 | 17.60 | | |
| | | eS | 55 | 08.50 | | LOR | 120.49 | 326 ePKP | 57 | 53.60 | 0.2 | | CCH | 4.98 | 27 P | 24 | 37.50 | 1.9 | |
| LZH | 50.06 | 323 P | 47 | 58.00 | 0.6 | | 0.6s | 3.60nm | | | | | CNCB | 5.04 | 6 P | 24 | 36.70 | 0.2 | |
| | 1.0s | | 96.00nm | | 5.8mb | LBF | 120.58 | 326 ePKP | 57 | 53.50 | -0.2 | | LPB | 5.30 | 5 P | 24 | 40.00 | 0.1 | |
| | Z 22s | | 4.30um | | 5.4Msz | | 0.8s | 8.00nm | | | | | | 1.0s | | 180.00nm | | | 5.3mb |
| | | i | 48 | 07.00 | | SSF | 120.80 | 326 ePKP | 57 | 54.30 | 0.3 | | ZOBO | 5.56 | 4 P | 24 | 43.30 | -0.3 | |
| GTA | 54.64 | 323 iPc | 48 | 31.70 | 0.1 | | 1.0s | 10.00nm | | | | | | Z | 24s | | 0.06um | | |
| | Z 22s | | 0.40um | | 4.4Msz | FRF | 120.84 | 321 ePKP | 57 | 54.30 | 0.1 | | | | LR | 49 | 36.00 | | |
| | E 15s | | 0.40um | | | | 0.8s | 9.10nm | | | | | PEL | 11.41 | 189 iPd | 26 | 02.10 | 1.1 | |
| LSA | 55.44 | 309 Pc | 48 | 38.50 | 0.4 | SMF | 120.85 | 325 ePKP | 57 | 54.10 | 0.0 | | ITB1 | 13.31 | 105 eP | 26 | 29.40 | 3.8X | |
| KOD | 62.36 | 283 iPc | 49 | 26.00 | -0.1 | | 0.8s | 8.00nm | | | | | ITB | 13.49 | 105 e(P) | 26 | 28.30 | 0.2 | |
| | 0.8s | | 108.96nm | | 6.0mb | | 0.8s | 5.30nm | | | | | ITB7 | 13.58 | 107 e(P) | 26 | 30.90 | 1.7 | |
| HYB | 62.52 | 291 iPc | 49 | 26.20 | -0.6 | AVF | 121.05 | 326 ePKP | 57 | 54.30 | -0.2 | | VAO | 19.98 | 97 eP | 27 | 41.30 | -3.1X | |
| | 1.0s | | 86.00nm | | 5.8mb | | 0.6s | 2.70nm | | | | | | | i | 27 | 42.30 | | |
| GBA | 62.89 | 286 Pc | 49 | 27.90 | -1.3 | LRG | 121.08 | 321 ePKP | 57 | 55.00 | 0.4 | | ITA | 22.10 | 96 eP | 28 | 05.10 | -0.6 | |
| | 0.8s | | 83.20nm | | 5.9mb | | 0.8s | 13.40nm | | | | | BMA | 22.59 | 97 eP | 28 | 09.10 | -1.1 | |
| WMO | 64.60 | 321 iPc | 49 | 40.00 | -0.1 | BGF | 121.46 | 326 ePKP | 57 | 55.60 | 0.3 | | VVO | 62.44 | 335 eP | 33 | 30.30 | -0.7 | |
| NDI | 66.45 | 302 iPc | 49 | 50.80 | -1.4 | | 0.6s | 7.20nm | | | | | RLO | 62.90 | 336 iP | 33 | 33.50 | -0.5 | |
| POO | 67.13 | 291 iPc | 49 | 56.30 | -0.4 | MAF | 121.82 | 326 ePKP | 57 | 56.20 | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | |
|-------|-------|----------|--------|----|-------|---------|------|-------|----------|---------|----|---------|------|-------|-------|----------|--------|-------|--------|---------|
| NNT | 42.87 | 247 | eP | 35 | 03.50 | -0.5 | RMW | 69.58 | 46 | P | 38 | 15.00 | 0.5 | PEC | 80.09 | 55 | P | 39 | 15.00 | 0.2 |
| PMG | 45.66 | 170 | eP | 35 | 25.00 | -1.3 | BAL | 69.68 | 201 | eP | 38 | 14.00 | -1.0 | KSP | 80.31 | 328 | iPc | 39 | 15.70 | 0.1 |
| SNG | 45.84 | 241 | eP | 35 | 27.80 | -0.1 | PNT | 69.85 | 43 | eP | 38 | 15.00 | -1.0 | | | | e | 42 | 12.50 | -0.1 |
| TTA | 47.04 | 34 | P | 35 | 37.20 | 0.3 | | | | 23.00nm | | 5.1mb | MSU | 80.47 | 49 | P | 39 | 18.40 | 1.4 | |
| | 1.2s | 37.88nm | | | | 5.2mb | LON | 69.94 | 46 | P | 38 | 16.70 | 0.0 | PLM | 80.61 | 56 | eP | 39 | 18.00 | 0.2 |
| SVW | 47.14 | 37 | eP | 35 | 38.60 | 0.9 | NUR | 70.27 | 332 | iP | 38 | 17.40 | -0.9 | KRP | 80.63 | 152 | P | 39 | 24.30 | 7.0X |
| | | e | | 35 | 57.20 | | | Z | 19s | 0.80um | | 5.0msz | IKL | 80.66 | 308 | eP | 39 | 17.00 | -0.7 | |
| IPM | 47.39 | 238 | ePd | 35 | 40.10 | -0.1 | | | | LR | 11 | 30.00 | | TPC | 80.70 | 55 | eP | 39 | 18.00 | -0.1 |
| | 1.0s | 36.70nm | | | | 5.3mb | KLB | 70.31 | 200 | eP | 38 | 18.00 | -0.8 | PSZ | 80.75 | 324 | eP | 39 | 18.80 | 0.7 |
| BRW | 47.91 | 23 | iPc | 35 | 43.70 | 0.2 | BWA | 70.49 | 172 | eP | 38 | 20.30 | 0.4 | BAR | 81.14 | 56 | eP | 39 | 20.00 | -0.4 |
| IMA | 48.27 | 30 | eP | 35 | 46.60 | 0.1 | ADE | 70.57 | 181 | e(P) | 38 | 20.30 | -0.1 | PVL | 81.18 | 318 | eP | 39 | 16.00 | -4.3X |
| | 1.4s | 55.20nm | | | | 5.4mb | EDM | 70.99 | 37 | ePc | 38 | 22.50 | -0.4 | BRG | 81.29 | 329 | iP | 39 | 20.80 | 0.0 |
| | | e | | 35 | 58.80 | | | 1.4s | 103.00nm | | | 5.6mb | | | 2.0s | 110.00nm | | | 5.5mb | |
| KDC | 48.82 | 41 | eP | 35 | 50.10 | -0.5 | TAB | 71.32 | 304 | eP | 38 | 26.00 | 0.7 | | | i | | 39 | 33.00 | |
| HNR | 48.99 | 153 | eP | 35 | 50.00 | -2.4 | DPW | 71.42 | 44 | P | 38 | 25.40 | -0.2 | CLL | 81.36 | 329 | iPc | 39 | 20.90 | -0.2 |
| MTN | 49.23 | 191 | iPc | 35 | 53.20 | -1.0 | CAN | 71.44 | 172 | eP | 38 | 25.80 | 0.2 | | 1.5s | 92.00nm | | | 5.5mb | |
| KHK I | 49.62 | 212 | ePd | 35 | 57.10 | -0.2 | NWAO | 71.71 | 200 | eP | 38 | 27.00 | -0.3 | SRO | 81.58 | 324 | iP | 39 | 23.00 | 0.7 |
| | | e | | 39 | 35.00 | | | 0.6s | 11.00nm | | | 5.0mb | | | e | | | 09 | 22.00 | |
| KSH | 49.66 | 294 | P | 35 | 59.00 | 1.4 | FHC | 71.71 | 53 | ePc | 38 | 28.50 | 1.0 | | | e | | 11 | 41.00 | |
| | Z | 12s | 1.90um | | | 5.3mszX | KER | 72.72 | 300 | eP | 38 | 34.00 | 0.3 | ADI | 81.59 | 305 | eP | 39 | 23.50 | 0.8 |
| | E | 16s | 1.40um | | | | LBFM | 72.76 | 51 | P | 38 | 34.80 | 0.9 | PRU | 81.70 | 328 | ePc | 39 | 23.00 | 0.1 |
| | | eS | | 43 | 05.00 | | WDC | 72.76 | 52 | ePc | 38 | 34.00 | 0.4 | | 2.0s | 89.80nm | | | 5.4mb | |
| PSI | 50.20 | 238 | eP | 36 | 01.20 | -0.5 | | | e | | 38 | 47.50 | | | Z | 14s | 1.20um | | | 5.4mszX |
| PMR | 50.26 | 36 | eP | 36 | 00.70 | -1.0 | | | e | | 39 | 06.70 | | E | 14s | 1.00um | | | | |
| | 1.1s | 50.00nm | | | | 5.5mb | SLY | 73.18 | 302 | ePd | 38 | 36.00 | -0.1 | | | e | | 39 | 36.40 | |
| FBA | 50.70 | 32 | iPc | 36 | 05.00 | 0.0 | LTCM | 73.23 | 52 | P | 38 | 37.20 | 0.9 | ZST | 81.87 | 325 | iP | 39 | 25.40 | 1.6 |
| PPi | 51.51 | 234 | eP | 36 | 14.00 | 2.3 | UPP | 73.33 | 334 | iP | 38 | 35.20 | -1.3 | GLA | 82.15 | 55 | eP | 39 | 27.00 | 1.4 |
| TOA | 51.62 | 35 | eP | 36 | 12.50 | 0.4 | TOO | 73.36 | 175 | eP | 38 | 37.00 | 0.1 | ZNT | 82.23 | 304 | iPd | 39 | 28.00 | 2.0 |
| KNA | 52.48 | 193 | eP | 36 | 18.00 | -0.9 | SES | 73.82 | 39 | ePc | 38 | 39.80 | 0.2 | PCB | 82.26 | 318 | iPc | 39 | 27.00 | 1.0 |
| NDI | 52.59 | 281 | iPd | 36 | 19.00 | -0.7 | ORV | 73.99 | 53 | ePc | 38 | 40.50 | -0.2 | MOX | 82.43 | 330 | iP | 39 | 27.00 | 0.3 |
| | 1.2s | 312.50nm | | | | 6.2mb | | | e | | 38 | 54.00 | | | 1.7s | 69.00nm | | | 5.4mb | |
| WB5 | 55.77 | 186 | eP | 36 | 41.50 | -1.4 | MSL | 74.36 | 304 | ePd | 38 | 42.50 | -0.4 | | | ePP | | 42 | 30.00 | |
| | | e | | 44 | 25.20 | | BRK | 74.42 | 54 | ePc | 38 | 43.40 | 0.2 | | | eSS | | 55 | 50.00 | |
| WRA | 55.84 | 186 | Pd | 36 | 41.70 | -1.7 | BKS | 74.43 | 54 | ePc | 38 | 43.60 | 0.3 | | | eLR | | 06 | 00.00 | |
| | 0.5s | 16.70nm | | | | 5.3mb | | 1.3s | 83.00nm | | | 5.5mb | SOP | 82.49 | 325 | eP | 39 | 28.00 | 0.9 | |
| INK | 55.93 | 27 | ePc | 36 | 43.10 | -0.5 | | | i | | 38 | 56.80 | | RZN | 82.54 | 317 | iPc | 39 | 28.00 | 0.3 |
| | 0.8s | 49.00nm | | | | 5.6mb | HFS | 74.51 | 335 | eP | 38 | 41.80 | -1.6 | WIT | 82.64 | 333 | eP | 39 | 32.00 | 4.3X |
| | | pP | | 36 | 55.50 | 44kmX | | 0.6s | 6.80nm | | | 4.8mb | ELL | 82.72 | 310 | eP | 39 | 27.00 | -0.7 | |
| CTA | 56.08 | 173 | eP | 36 | 45.00 | -0.1 | NB2 | 74.66 | 337 | P | 38 | 43.60 | -0.7 | VTs | 82.75 | 318 | iP | 39 | 29.00 | 0.3 |
| OIS | 56.21 | 180 | eP | 36 | 44.00 | -2.1 | | 0.6s | 22.40nm | | | 5.3mb | KHC | 82.76 | 328 | P | 39 | 28.90 | 0.4 | |
| | | e | | 36 | 58.00 | | NRA0 | 74.78 | 336 | P | 38 | 44.40 | -0.5 | MMB | 83.15 | 317 | eP | 39 | 31.00 | 0.4 |
| HYB | 56.86 | 268 | iPc | 36 | 50.00 | -1.0 | MHC | 75.12 | 55 | ePc | 38 | 47.90 | 0.4 | KMR | 83.32 | 327 | iP+ | 39 | 31.80 | 0.5 |
| | 1.2s | 85.70nm | | | | 5.7mb | ARN | 75.19 | 55 | P | 38 | 47.00 | -0.8 | GRF | 83.33 | 329 | eP | 39 | 31.80 | 0.4 |
| MBC | 57.92 | 16 | eP | 36 | 56.00 | -1.6 | FFC | 75.31 | 32 | iPc | 38 | 47.50 | -0.5 | | 1.7s | 168.00nm | | | 5.8mb | |
| | 0.8s | 18.00nm | | | | 5.2mb | | 1.2s | 89.00nm | | | 5.6mb | | Z | 21s | 0.40um | | | 4.8msz | |
| | | pP | | 37 | 14.00 | 69kmX | CMB | 75.56 | 53 | ePc | 38 | 50.20 | 0.3 | GOL | 83.74 | 45 | P | 39 | 34.50 | 0.5 |
| SIT | 58.05 | 40 | eP | 36 | 59.00 | 0.3 | | | i | | 39 | 03.50 | | GLD | 83.79 | 45 | P | 39 | 35.50 | 1.4 |
| ASPA | 59.57 | 186 | eP | 37 | 09.80 | 0.2 | | | e | | 39 | 22.00 | | | 1.5s | 93.75nm | | | 5.6mb | |
| | 0.5s | 45.00nm | | | | 5.9mb | LRM | 75.82 | 43 | ePc | 38 | 51.80 | 0.3 | MBH | 83.84 | 302 | ePc | 39 | 35.20 | 0.9 |
| | | eS | | 45 | 12.30 | | PRS | 75.87 | 55 | ePc | 38 | 52.00 | 0.4 | VAY | 83.97 | 318 | iP | 39 | 34.60 | -0.1 |
| GBA | 59.82 | 265 | Pc | 37 | 10.00 | -1.5 | | | e | | 39 | 05.50 | | PTJ | 84.08 | 324 | eP | 39 | 37.70 | 2.3 |
| | 0.8s | 64.60nm | | | | 5.8mb | LLA | 75.99 | 55 | ePc | 38 | 52.80 | 0.5 | SKO | 84.13 | 319 | iPc | 39 | 36.00 | 0.4 |
| MBL | 59.87 | 202 | eP | 37 | 11.00 | -0.7 | KVT | 76.29 | 311 | iP | 38 | 55.00 | 1.1 | KBA | 84.41 | 326 | e(P) | 39 | 35.50 | -1.6 |
| QUE | 60.01 | 287 | iPc | 37 | 11.20 | -1.7 | PRI | 76.44 | 55 | ePc | 38 | 55.70 | 0.7 | | 0.7s | 12.20nm | | | 5.1mb | |
| POO | 60.10 | 272 | iPc | 37 | 13.60 | 0.1 | KVN | 76.45 | 52 | P | 38 | 55.80 | 0.8 | | | e | | 42 | 49.00 | |
| ALE | 61.25 | 3 | ePc | 37 | 20.00 | -0.5 | FRI | 76.59 | 54 | ePc | 38 | 55.80 | 0.2 | ENN | 84.57 | 333 | eP | 39 | 37.00 | -0.5 |
| | 0.7s | 33.00nm | | | | 5.6mb | | | e | | 39 | 09.40 | | | 1.5s | 101.00nm | | | 5.7mb | |
| | | pP | | 37 | 36.00 | 60kmX | HPI | 76.73 | 45 | P | 38 | 57.40 | 0.7 | LJU | 84.64 | 325 | eP | 39 | 37.50 | -0.6 |
| KOD | 61.70 | 262 | eP | 37 | 24.00 | -0.7 | PHAM | 76.79 | 55 | P | 38 | 58.00 | 1.2 | MEM | 84.66 | 332 | P | 39 | 37.60 | -0.4 |
| NANU | 62.57 | 205 | eP | 37 | 29.50 | -0.3 | TNP | 77.57 | 52 | P | 39 | 01.70 | 0.4 | VBY | 84.71 | 324 | ePc | 39 | 38.60 | 0.2 |
| | 0.4s | 12.00nm | | | | 5.4mb | | 1.3s | 66.33nm | | | 5.5mb | RBL | 84.79 | 326 | P | 39 | 37.90 | -1.0 | |
| RMO | 62.69 | 171 | eP | 37 | 37.00 | 6.4X | CLI | 77.95 | 319 | ePd | 39 | 04.00 | 1.1 | CEY | 84.92 | 325 | eP | 39 | 39.00 | -0.5 |
| | | e | | 37 | 52.00 | | FRB | 78.11 | 12 | ePc | 39 | 03.10 | -0.3 | VOY | 84.95 | 325 | ePc | 39 | 38.60 | -1.1 |
| MAIO | 62.93 | 297 | iPc | 37 | 32.20 | -0.1 | | 1.0s | 128.00nm | | | 5.9mb | FVI | 85.03 | 326 | P | 39 | 38.50 | -1.4 | |
| | | eS | | 46 | 44.00 | | ISA | 78.17 | 55 | eP | 39 | 03.00 | -1.4 | OHR | 85.07 | 318 | iP | 39 | 40.10 | -0.3 |
| DZM | 62.99 | 152 | iPc | 37 | 34.90 | 2.2 | CFR | 78.35 | 318 | eP | 39 | 06.00 | 0.9 | TRI | 85.25 | 325 | iPc | 39 | 40.00 | -1.0 |
| WARB | 63.05 | 193 | iPc | 37 | 24.50 | -8.5X | CLC | 78.66 | 54 | eP | 39 | 08.00 | 0.9 | GWF | 85.35 | 331 | P | 39 | 41.34 | -0.2 |
| KEV | 63.97 | 339 | iP | 37 | 41.40 | 2.8 | VRI | 78.68 | 319 | ePd | 39 | 08.00 | 1.0 | WLF | 85.37 | 332 | Pd | 39 | 42.50 | 0.9 |
| | 1.0s | 48.00nm | | | | 5.4mb | | | e | | 08 | 18.00 | | SNF | 85.38 | 333 | P | 39 | 41.60 | 0.0 |
| YKA | 65.39 | 29 | P | 37 | 47.40 | -0.4 | TLB | 78.80 | 317 | ePc | 39 | 08.00 | 0.4 | DOU | 85.61 | 333 | P | 39 | 43.60 | 0.8 |
| MEKA | 65.39 | 201 | eP | 37 | 47.00 | -1.2 | BBTK | 79.04 | 311 | iPc+ | 39 | 09.50 | 0.3 | CDF | 85.94 | 331 | P | 39 | 43.73 | -0.9 |
| SOD | 65.44 | 337 | iP | 37 | 46.90 | -1.2 | | | i | | 39 | 14.00 | | FEL | 86.07 | 330 | P | 39 | 44.67 | -0.6 |
| YKC | 65.45 | 29 | ePc | 37 | 47.00 | -1.2 | SBB | 79.17 | 55 | eP | 39 | 11.00 | 1.1 | ALO | 86.28 | 49 | eP | 39 | 46.90 | 0.2 |
| | 1.2s | 53.00nm | | | | 5.4mb | KRA | 79.24 | 325 | iPc | 39 | 09.90 | 0.0 | | 1.0s | 20.00nm | | | 5.2mb | |
| DAG | 66.73 | 355 | iPc | 37 | 54.80 | -1.4 | | 0.7s | 47.00nm | | | 5.5mb | | | Z | 20s | 0.89um | | | 5.2msz |
| | 1.1s | 83.54nm | | | | 5.6mb | | Z | 15s | 1.50um | | 5.5mszX | | | e | | 40 | 01.00 | | |
| KJF | 66.90 | 334 | iP | 37 | 56.50 | -1.0 | | | e | | 39 | 16.10 | | MOF | 86.45 | 330 | P | 39 | 46.45 | -0.7 |
| | 0.7s | 45.40nm | | | | 5.6mb | ISR | 79.26 | 319 | ePd | 39 | 11.50 | | | | | | | | |

| | | | | | | |
|-----|-------|---------|----------|--------|--|--|
| 19d | | | | | | |
| FIR | 87.88 | 325 eP | 39 55.00 | 1.1 | | |
| BOB | 87.92 | 327 P | 39 46.20 | -8.1X | | |
| DUI | 87.96 | 322 P | 39 54.90 | 0.4 | | |
| LOR | 88.21 | 332 eP | 39 55.90 | 0.4 | | |
| SDI | 88.24 | 323 P | 39 54.20 | -1.6 | | |
| PIL | 88.26 | 326 P | 39 54.60 | -1.1 | | |
| LSD | 88.36 | 329 P | 39 56.44 | -0.2 | | |
| LBF | 88.40 | 331 eP | 39 56.50 | 0.0 | | |
| | 1.0s | 12.00nm | | 5.1mb | | |
| TDS | 88.48 | 320 P | 39 54.80 | -2.2 | | |
| LPG | 88.50 | 329 eP | 39 57.80 | 0.5 | | |
| | 0.6s | 6.30nm | | 5.0mb | | |
| SSF | 88.52 | 332 eP | 39 57.20 | 0.2 | | |
| | 1.0s | 8.80nm | | 5.0mb | | |
| FLN | 88.54 | 335 eP | 39 57.40 | 0.4 | | |
| | 1.0s | 24.00nm | | 5.4mb | | |
| LDF | 88.56 | 335 eP | 39 59.00 | 1.9 | | |
| | 1.2s | 53.50nm | | 5.7mb | | |
| RSP | 88.56 | 329 P | 39 56.74 | -0.7 | | |
| SMF | 88.73 | 331 eP | 39 58.40 | 0.3 | | |
| | 1.2s | 30.90nm | | 5.4mb | | |
| AVF | 88.80 | 332 eP | 39 58.70 | 0.4 | | |
| | 1.2s | 38.60nm | | 5.5mb | | |
| FIN | 88.91 | 327 P | 39 57.26 | -1.7 | | |
| RRL | 88.95 | 329 P | 39 58.80 | -0.6 | | |
| ROB | 88.99 | 328 P | 39 57.77 | -1.6 | | |
| GRR | 88.99 | 335 eP | 39 59.90 | 0.7 | | |
| | 1.0s | 24.00nm | | 5.4mb | | |
| PZZ | 89.15 | 328 P | 39 58.80 | -1.4 | | |
| BGF | 89.19 | 332 eP | 40 01.20 | 1.0 | | |
| | 1.2s | 23.80nm | | 5.4mb | | |
| STV | 89.26 | 328 P | 39 58.39 | -2.3 | | |
| IMI | 89.28 | 327 P | 39 59.41 | -1.4 | | |
| ACO | 89.34 | 44 eP | 40 02.00 | 0.9 | | |
| | 1.0s | 25.30nm | | 5.5mb | | |
| LPF | 89.36 | 335 eP | 40 01.90 | 1.0 | | |
| | 1.2s | 23.80nm | | 5.4mb | | |
| SBF | 89.52 | 328 eP | 40 01.50 | -0.4 | | |
| | 1.2s | 20.20nm | | 5.3mb | | |
| MAF | 89.58 | 332 eP | 40 02.80 | 0.7 | | |
| | 1.2s | 38.60nm | | 5.6mb | | |
| TCF | 89.66 | 332 eP | 40 02.90 | 0.5 | | |
| | 1.2s | 17.80nm | | 5.2mb | | |
| CVF | 89.91 | 326 eP | 40 03.50 | -0.2 | | |
| | 0.8s | 10.70nm | | 5.2mb | | |
| LSF | 89.95 | 332 eP | 40 04.30 | 0.5 | | |
| | 1.2s | 27.90nm | | 5.4mb | | |
| FRF | 90.10 | 328 eP | 40 04.40 | -0.1 | | |
| | 0.8s | 10.70nm | | 5.2mb | | |
| MFF | 90.26 | 334 eP | 40 06.10 | 0.9 | | |
| | 1.2s | 41.60nm | | 5.6mb | | |
| LRG | 90.31 | 328 eP | 40 05.80 | 0.4 | | |
| | 0.8s | 21.40nm | | 5.5mb | | |
| LMR | 90.34 | 328 eP | 40 05.50 | -0.1 | | |
| | 1.2s | 35.70nm | | 5.6mb | | |
| RRO | 90.68 | 44 e(P) | 40 09.00 | 1.6 | | |
| | 1.3s | 73.50nm | | 5.9mb | | |
| RJF | 90.75 | 332 eP | 40 08.80 | 1.3 | | |
| | 1.2s | 29.70nm | | 5.5mb | | |
| CAF | 90.86 | 331 eP | 40 09.30 | 1.3 | | |
| | 1.0s | 14.00nm | | 5.3mb | | |
| MEO | 91.04 | 45 ePc | 40 09.00 | 0.0 | | |
| | 1.5s | 58.40nm | | 5.8mb | | |
| OCO | 91.13 | 43 e(P) | 40 11.00 | 1.6 | | |
| LFF | 91.35 | 332 eP | 40 11.40 | 1.2 | | |
| | 0.8s | 21.40nm | | 5.6mb | | |
| FKO | 91.37 | 43 eP | 40 10.90 | 0.4 | | |
| | 1.3s | 44.30nm | | 5.7mb | | |
| LPO | 91.40 | 332 eP | 40 11.50 | 1.1 | | |
| | 1.2s | 35.70nm | | 5.6mb | | |
| SIO | 91.61 | 42 eP | 40 11.70 | 0.1 | | |
| TUL | 91.77 | 42 iP | 40 12.60 | 0.3 | | |
| | 1.3s | 27.40nm | | 5.5mb | | |
| Z | 21s | 1.84um | | 5.5Msz | | |
| | </ | | | | | |

| | | | | | | | | | | | | | | | | | | | |
|------|-------|---------|--------|----|-------|---------|-----|-------|----------|----------|----------|----------|---------|---------|---------|---------|---------|--------|------|
| TRT | 53.85 | 271 | iPc | 58 | 24.90 | -0.1 | | 5.0s | 0.70nm | 2.7mb X | IMA | 85.83 | 15 | eP | 01 | 37.80 | -1.3 | | |
| | 0.7s | 30.20nm | | | | 5.4mb | Z | 24s | 2.30um | 5.3MszX | | 0.8s | 17.10nm | | | | 5.1mb | | |
| OCP | 54.21 | 301 | eP | 58 | 36.00 | 8.5X | E | 15s | 0.60um | | FRI | 85.89 | 50 | ePc | 01 | 40.60 | 0.9 | | |
| RKT | 55.02 | 108 | iP | 58 | 32.00 | -1.4 | | | pP | 00 35.50 | 100km | MWC | 86.13 | 53 | eP | 01 | 41.00 | -0.3 | |
| | 0.8s | 25.00nm | | | | 5.3mb | | | eS | 09 07.00 | | | | e | 02 | 06.00 | | | |
| BAG | 55.53 | 302 | eP | 58 | 36.00 | -1.4 | PSI | 69.76 | 279 | ePd | 00 12.20 | 0.7 | ISA | 86.33 | 52 | eP | 01 | 43.00 | 0.9 |
| | | | e | 59 | 00.00 | | GYA | 71.73 | 305 | iPd | 00 23.80 | 0.4 | | | e | 02 | 09.00 | | |
| | | | eS | 06 | 14.00 | | | | S | 09 36.00 | | | SBB | 86.48 | 53 | eP | 01 | 43.00 | 0.2 |
| CHJJ | 57.25 | 333 | P | 58 | 48.40 | -0.6 | LOE | 72.08 | 294 | eP | 00 26.00 | 0.6 | | | e | 02 | 08.00 | | |
| IIDJ | 57.26 | 332 | P | 58 | 48.10 | -1.1 | BJI | 72.33 | 321 | eP | 00 26.50 | 0.0 | FBA | 86.54 | 18 | eP | 01 | 40.00 | -2.4 |
| MAT | 58.01 | 333 | iPd | 58 | 52.80 | -1.6 | | Z | 46s | 5.60um | 5.5MszX | RVR | 86.58 | 54 | eP | 01 | 43.00 | -0.2 | |
| | | | eS | 06 | 24.00 | | | N | 15s | 0.64um | | | | e | 02 | 10.00 | | | |
| MTMJ | 58.22 | 332 | P | 58 | 54.90 | -1.1 | | | eS | 00 51.00 | | BAR | 86.68 | 55 | eP | 01 | 44.00 | 0.2 | |
| NIJ | 58.24 | 334 | P | 58 | 55.20 | -0.8 | | | eS | 09 40.00 | | PLM | 86.76 | 54 | eP | 01 | 44.00 | -0.4 | |
| KUMJ | 58.59 | 324 | P | 58 | 58.30 | -0.2 | | | eS | 10 09.00 | | | | e | 02 | 12.00 | | | |
| YAMJ | 58.60 | 335 | eP | 58 | 58.80 | 0.3 | NST | 72.86 | 292 | eP | 00 31.10 | 1.1 | CLC | 87.05 | 52 | eP | 01 | 45.00 | -0.5 |
| OFUJ | 58.75 | 337 | P | 58 | 59.20 | -0.2 | TIY | 73.32 | 317 | Pd | 00 32.90 | 0.5 | | | e | 02 | 12.00 | | |
| SHK | 59.09 | 327 | eP | 59 | 01.00 | -0.9 | | 2.0s | 0.70nm | 3.1mb X | | GSC | 87.47 | 53 | eP | 01 | 48.00 | 0.4 | |
| SHNJ | 59.62 | 326 | P | 59 | 04.20 | -1.3 | | N | 18s | 1.30um | | | | e | 02 | 15.00 | | | |
| AOMJ | 60.52 | 337 | eP | 59 | 12.90 | 1.3 | | | ePcP | 00 50.00 | | TPC | 87.66 | 54 | eP | 01 | 49.00 | 0.5 | |
| OZH | 61.74 | 309 | P | 59 | 19.30 | -0.8 | | | pP | 00 59.00 | 101km | | | e | 02 | 15.00 | | | |
| | | | pP | 59 | 43.00 | 94km | | | sP | 01 10.00 | | KVN | 87.82 | 49 | P | 01 | 50.00 | 0.7 | |
| | | | sS | 08 | 17.00 | | | | ePP | 03 25.00 | | GMW | 87.95 | 40 | P | 01 | 50.60 | 1.1 | |
| | | | ScS | 09 | 03.00 | | | | S | 09 54.00 | | | | pP | 02 | 18.50 | 106km | | |
| MRRJ | 61.89 | 338 | eP | 59 | 20.70 | 0.0 | XAN | 73.73 | 313 | Pd | 00 35.80 | 0.9 | TNP | 88.12 | 50 | P | 01 | 51.60 | 0.8 |
| ASAJ | 62.85 | 340 | eP | 59 | 27.80 | 0.7 | | | pP | 01 04.90 | 115kmX | LON | 88.24 | 41 | P | 01 | 51.70 | 0.7 | |
| SBA | 62.97 | 180 | Pc+ | 59 | 28.00 | 0.5 | | | S | 09 59.00 | | GLA | 88.27 | 55 | eP | 01 | 53.00 | 1.6 | |
| SSE | 63.57 | 316 | P | 59 | 31.20 | -0.9 | KMI | 74.31 | 302 | P- | 00 40.00 | 1.4 | MCW | 88.40 | 39 | P | 01 | 53.00 | 1.3 |
| | 1.5s | 96.00nm | | | | 5.5mb | | | sP | 01 04.00 | | RMW | 88.53 | 40 | P | 01 | 52.80 | 0.4 | |
| | Z | 20s | 0.90um | | | 4.9Msz | | | iS | 10 06.00 | | | | pP | 02 | 21.20 | 108km | | |
| | N | 14s | 0.70um | | | | | | i | 10 37.00 | | BRW | 89.41 | 11 | eP | 01 | 55.10 | -0.9 | |
| | E | 14s | 1.10um | | | | | | eP | 00 40.00 | 0.9 | PNT | 90.60 | 39 | ePc | 02 | 03.00 | 1.1 | |
| | | | sP | 59 | 54.60 | | BDT | 74.43 | 293 | eP | 00 44.50 | 1.7 | | 1.5s | 84.00nm | | 5.7mb | | |
| | | | S | 07 | 54.00 | | CHG | 75.06 | 294 | iPd | 10 20.00 | 5.3mb | MSU | 92.02 | 51 | P | 02 | 10.60 | 1.6 |
| | | | PS | 08 | 26.00 | | | 1.2s | 57.81nm | | | | | pP | 02 | 37.80 | 102km | | |
| | | | ScS | 09 | 18.50 | | SPA | 75.20 | 180 | iPc | 00 41.90 | -1.1 | WMO | 92.78 | 315 | P | 02 | 12.50 | 0.4 |
| GZH | 64.79 | 305 | Pc | 59 | 39.20 | -1.0 | | | i | 01 07.40 | | | Z | 24s | 1.10um | | 5.2MszX | | |
| | | | pP | 00 | 04.50 | 101km | HHC | 75.65 | 320 | Pd | 00 46.20 | 0.4 | | | SKS | 12 | 32.00 | | |
| | | | S | 08 | 16.00 | | | N | 40s | 4.10um | | INK | 93.07 | 19 | eP | 02 | 13.00 | 0.1 | |
| | | | sS | 09 | 00.00 | | | | pP | 01 13.00 | 104km | HYB | 93.08 | 287 | eP | 02 | 14.00 | 0.0 | |
| KGM | 65.36 | 279 | eP | 59 | 45.00 | 1.0 | | | SKS | 10 46.00 | | GBA | 93.17 | 283 | Pc | 02 | 14.10 | -0.3 | |
| NJ2 | 65.73 | 316 | Pd | 59 | 45.50 | -0.5 | CD2 | 76.03 | 308 | eP | 00 48.70 | 0.6 | | 0.6s | 3.80nm | | 4.9mb | | |
| | Z | 22s | 0.90um | | | 4.9Msz | | | pP | 01 13.00 | 93km | LRM | 93.99 | 44 | eP | 02 | 18.30 | 0.4 | |
| | | | pP | 00 | 12.00 | 106km | | | sP | 01 24.00 | | ALO | 95.47 | 55 | eP | 02 | 26.00 | 1.1 | |
| | | | sP | 00 | 22.00 | | | | S | 10 24.00 | | | 1.0s | 2.50nm | | 4.6mb | | | |
| | | | S | 08 | 26.00 | | BTO | 76.48 | 319 | P | 00 52.00 | 1.5 | EDM | 95.62 | 36 | eP | 02 | 24.00 | -1.0 |
| | | | sS | 09 | 11.00 | | | | pP | 01 19.00 | 105km | SES | 96.19 | 40 | eP | 02 | 29.00 | 1.4 | |
| QIZ | 65.73 | 299 | eP | 59 | 47.00 | 0.7 | | | S | 10 30.00 | | YKA | 97.74 | 27 | P | 02 | 33.90 | -0.3 | |
| | N | 13s | 0.80um | | | | LZH | 78.36 | 312 | eP | 01 02.00 | 1.0 | YKC | 97.79 | 27 | eP | 02 | 33.00 | -1.4 |
| | | | pP | 00 | 12.00 | 99km | | 2.0s | 247.00nm | 5.7mb | MBC | 100.49 | 13 | ePd | 02 | 47.00 | 0.5 | | |
| | | | sP | 00 | 23.00 | | | Z | 30s | 1.20um | 5.0MszX | CNCB | 117.11 | 118 | PKP | 07 | 47.00 | 0.7 | |
| | | | PP | 02 | 18.00 | | | | sP | 01 27.50 | | ZOBO | 117.23 | 117 | ePKP | 07 | 51.00 | 4.5X | |
| | | | S | 08 | 26.00 | | | | eS | 10 50.00 | | DAG | 118.04 | 2 | ePKP | 07 | 44.00 | -1.6 | |
| | | | sS | 09 | 12.50 | | KDC | 79.65 | 21 | eP | 01 06.30 | -1.0 | FRB | 118.10 | 25 | ePKP | 07 | 44.00 | -2.0 |
| ADK | 67.96 | 11 | eP | 59 | 59.60 | -0.2 | MAW | 81.70 | 202 | eP | 01 17.00 | -1.0 | GRM | 119.08 | 217 | iPKPc | 07 | 49.50 | 0.6 |
| WHN | 67.98 | 312 | P | 00 | 00.50 | 0.2 | TTA | 82.70 | 16 | eP | 01 23.20 | -0.1 | | 0.5s | 14.08nm | | | | |
| | Z | 24s | 0.21um | | | 4.3MszX | GTA | 82.71 | 314 | iPd | 01 24.70 | 0.8 | KEV | 119.86 | 345 | iPKP | 07 | 49.40 | 0.2 |
| | N | 11s | 0.66um | | | | | 4.0s | 0.40nm | 2.7mb X | | | 0.7s | 16.00nm | | | | | |
| | E | 12s | 0.73um | | | | | Z | 22s | 0.70um | 5.0Msz | SOD | 121.63 | 343 | iPKP | 07 | 52.40 | -0.2 | |
| | | | pP | 00 | 27.00 | 105km | | E | 18s | 0.80um | | SEK | 121.87 | 222 | iPKPd | 07 | 54.50 | 0.0 | |
| | | | sP | 00 | 36.00 | | | | PP | 04 40.00 | | | 0.9s | 8.40nm | | | | | |
| | | | eS | 08 | 42.00 | | PMR | 83.69 | 19 | eP | 01 26.00 | -2.2 | BFT | 121.95 | 226 | iPKPd | 07 | 55.00 | 0.2 |
| IPM | 68.31 | 281 | ePd | 00 | 02.80 | 0.1 | | 1.1s | 53.10nm | 5.4mb | | | 1.0s | 15.00nm | | | | | |
| | 1.0s | 29.80nm | | | | 5.1mb | | Z | 20s | 2.50um | 5.6Msz | FRS | 122.35 | 219 | iPKPd | 07 | 55.00 | -0.1 | |
| | | | e | 00 | 28.70 | | | | 84.37 | 49 | eP | 01 33.00 | 0.8 | | 0.9s | 12.60nm | | | |
| DL2 | 68.37 | 323 | Pd | 00 | 02.00 | -0.5 | BKS | 0.9s | 33.00nm | 5.3mb | | BPI | 123.03 | 225 | ePKP | 07 | 54.50 | -2.3 | |
| | Z | 30s | 2.40um | | | 5.2MszX | | Z | 20s | 1.40um | 5.3Msz | | | 0.5s | 28.17nm | | | | |
| | | | S | 08 | 54.00 | | | N | 20s | 0.90um | | SLR | 123.14 | 225 | iPKPd | 07 | 46.50 | -10.5X | |
| MDJ | 68.38 | 332 | Pd | 00 | 02.50 | 0.0 | | E | 20s | 1.70um | | | 0.9s | 21.85nm | | | | | |
| | Z | 40s | 2.40um | | | 5.1MszX | | | eS | 11 42.00 | | | | e | 11 | 02.00 | | | |
| | | | epP | 0 | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | |
|------|--------|--------|--------|----------|-------|------|--------|-----|------|----------|------|-------------------------------------|--|--|--|
| LSZ | 129.58 | 235 | ePKPd | 08 10.00 | 0.4 | BNI | 145.71 | 335 | PKP | 08 39.10 | 0.8 | TURKEY (366) | | | |
| | | | i | 10 18.50 | | FIN | 145.73 | 333 | PKP | 08 37.70 | -0.5 | | | | |
| | | | i | 11 23.00 | | RRL | 145.77 | 335 | PKP | 08 38.62 | 0.1 | IZM 0.72 184 iPg 27 52.60 -0.2 | | | |
| | | | i | 12 14.40 | | BGF | 145.81 | 341 | ePKP | 08 38.80 | 0.5 | eSg 28 03.60 | | | |
| VAO | 129.65 | 138 | ePKP | 08 08.80 | -0.7 | ROB | 145.81 | 333 | PKP | 08 37.70 | -0.7 | EZN 1.05 313 iPn 27 58.60 0.4 | | | |
| | | | e | 08 40.10 | | DOI | 145.92 | 334 | PKP | 08 36.50 | -2.1 | DST 1.12 64 iPn 28 00.30 0.7 | | | |
| | | | e | 11 20.70 | | ATN | 145.92 | 318 | PKP | 08 39.10 | 0.4 | EDC 1.29 19 ePn 28 02.70 0.2 | | | |
| NB2 | 130.76 | 345 | PKP | 08 09.40 | -1.0 | PZZ | 145.98 | 334 | PKP | 08 38.31 | -0.5 | BNT 1.32 20 iPn 28 02.30 -0.6 | | | |
| | 0.8s | 3.20nm | | | | LPI | 146.07 | 319 | PKP | 08 40.80 | 1.8 | KCT 1.38 35 iPn 28 03.30 -0.5 | | | |
| HFS | 130.85 | 343 | ePKP | 08 07.60 | -3.0 | PLDF | 146.07 | 339 | PKP | 08 40.50 | 1.7 | S.D. = 0.7 on 6 of 6 obs. | | | |
| | 0.5s | 1.30nm | | | | STV | 146.09 | 334 | PKP | 08 38.11 | -0.8 | | | | |
| BMA | 131.66 | 140 | ePKP | 08 11.80 | -1.5 | IMI | 146.11 | 333 | PKP | 08 39.13 | 0.2 | * FEB 19, 1989 13h 47m 34.89± 0.69s | | | |
| KMZ | 132.49 | 236 | iPKPc | 08 15.80 | 0.6 | AGO | 146.17 | 340 | PKP | 08 40.35 | 1.5 | 56.307 S ±17.2km 26.776 W ±11.4km | | | |
| | | | i | 10 37.70 | | SAOF | 146.20 | 333 | PKP | 08 39.98 | 1.0 | DEPTH = 33.0km (normol) | | | |
| | | | i | 11 34.80 | | MAF | 146.20 | 341 | ePKP | 08 40.10 | 1.2 | 4.9mb (6 obs.) | | | |
| | | | i | 12 25.40 | | AUTN | 146.25 | 333 | PKP | 08 39.82 | 0.5 | SOUTH SANDWICH ISLANDS REGION (153) | | | |
| BBTK | 133.15 | 311 | ePKP | 08 15.00 | -0.7 | TCF | 146.26 | 341 | ePKP | 08 39.70 | 0.7 | | | | |
| LWI | 135.42 | 251 | iPKP | 08 22.40 | 1.5 | TOUF | 146.31 | 333 | PKP | 08 40.21 | 0.8 | SPA 33.87 180 e(P) 54 16.10 -0.2 | | | |
| SPC | 136.41 | 329 | e(PKP) | 08 23.50 | 1.8 | SBF | 146.35 | 333 | ePKP | 08 40.20 | 0.9 | 1.1s 12.50nm 4.8mb | | | |
| | | | e | 08 51.10 | | AURF | 146.38 | 333 | PKP | 08 39.98 | 0.6 | SWZ 46.98 74 iPd 56 03.50 -1.1 | | | |
| | | | e | 11 23.70 | | MVIF | 146.44 | 333 | PKP | 08 40.37 | 0.8 | 0.3s 19.48nm 5.6mb | | | |
| PSZ | 137.40 | 328 | ePKP | 08 23.50 | 0.0 | PYM | 146.47 | 340 | PKP | 08 41.61 | 2.1 | SEK 47.32 77 iPd 56 08.00 0.7 | | | |
| CLL | 138.16 | 336 | e(PKP) | 08 21.00 | -3.7X | LSF | 146.50 | 342 | ePKP | 08 40.60 | 1.2 | 0.3s 6.49nm 5.1mb | | | |
| | | | e | 08 56.00 | | MNO | 146.55 | 318 | PKP | 08 40.90 | 0.9 | CNCB 50.19 305 P 56 30.00 0.0 | | | |
| ZST | 138.63 | 330 | e(PKP) | 08 26.00 | 0.4 | MFF | 146.65 | 344 | ePKP | 08 41.20 | 1.6 | LPB 50.48 305 eP 56 33.00 1.0 | | | |
| | | | e | 11 40.00 | | CALN | 146.67 | 334 | PKP | 08 40.82 | 0.9 | BFT 50.72 77 eP 56 34.50 1.0 | | | |
| | | | e | 11 43.00 | | CVF | 146.70 | 330 | PKP | 08 40.82 | 1.0 | 1.0s 10.00nm 4.8mb | | | |
| | | | e | 37 10.00 | | LBL | 146.85 | 339 | PKP | 08 43.08 | 3.2X | ZOBO 50.73 305 P 56 33.30 -0.8 | | | |
| SOP | 139.25 | 329 | ePKP | 08 27.60 | 0.8 | MEU | 146.87 | 317 | PKP | 08 48.30 | 7.9X | 0.8s 9.41nm 4.8mb | | | |
| KHC | 139.59 | 333 | ePKP | 08 21.30 | -6.1X | MEU | 146.87 | 317 | PKP | 08 43.90 | 3.5X | BNG 70.92 49 iPc 58 49.90 -0.8 | | | |
| VAY | 139.61 | 318 | ePKP | 08 23.00 | -4.6X | FRF | 146.93 | 334 | ePKP | 08 42.00 | 1.9 | 0.3s 5.00nm 5.1mb | | | |
| SKO | 140.00 | 319 | ePKP | 08 24.00 | -4.3X | LRG | 147.14 | 334 | ePKP | 08 42.90 | 2.5 | INK 146. | | | |

| | | | | | | | | | | | | | | | | | |
|------|------|-----|--------|----------|---------|------|-------|----------|--------|----------|---------|------|-------|----------|----------|----------|-------|
| KCT | 3.24 | 2 | iPn | 29 37.80 | -0.5 | SHBJ | 9.02 | 119 | Pc | 31 00.50 | 0.7 | STV | 17.41 | 301 | P | 32 52.29 | 1.3 |
| EDC | 3.34 | 355 | iPn | 29 37.70 | -2.2 | PPE | 9.21 | 357 | eP | 31 14.00 | 11.7X | MVIF | 17.43 | 300 | P | 32 52.91 | 1.6 |
| VAM | 3.63 | 245 | ePb | 29 45.20 | 1.3 | SSR | 9.25 | 330 | iPc | 32 00.00 | 57.1X | ORX | 17.44 | 306 | P | 32 53.11 | 1.6 |
| GPA | 3.66 | 26 | iPn | 29 45.20 | 0.8 | CLI | 9.56 | 356 | eP | 31 06.00 | -1.1 | CALN | 17.57 | 299 | P | 32 53.99 | 0.9 |
| YLV | 3.66 | 14 | iPn | 29 44.30 | -0.2 | HQL | 9.60 | 142 | eP | 31 06.70 | -1.0 | PZZ | 17.64 | 302 | P | 32 55.98 | 2.0 |
| ATH | 3.71 | 286 | ePn | 29 43.00 | -2.1 | | | | eS | 32 50.00 | | GRF | 17.66 | 321 | eP | 32 51.60 | -2.4 |
| GBZT | 3.89 | 14 | ePn | 29 49.50 | 1.9 | TDS | 9.71 | 289 | P | 31 08.70 | -0.5 | | 1.0s | 52.00nm | | | 4.6mb |
| | | | ePg | 30 00.40 | | SOI | 9.73 | 280 | P | 30 59.10 | -10.3X | FRF | 17.69 | 298 | eP | 32 56.50 | 2.0 |
| | | | iSg | 31 03.40 | | GMB | 9.88 | 280 | P | 31 12.10 | 0.3 | | 1.0s | 32.00nm | | | 4.4mb |
| PPCY | 3.96 | 121 | eP | 29 51.50 | 3.0X | ATN | 10.20 | 280 | P | 31 13.50 | -2.5 | RSP | 17.74 | 304 | P | 32 57.72 | 2.5 |
| HRT | 3.97 | 16 | ePn | 29 48.40 | -0.4 | BADA | 10.20 | 144 | eP | 31 13.30 | -2.7 | LRG | 17.87 | 298 | eP | 32 58.50 | 1.8 |
| ISK | 4.10 | 9 | ePn | 29 49.30 | -1.3 | MGR | 10.40 | 291 | P | 31 15.70 | -3.0X | | 1.0s | 36.00nm | | | 4.5mb |
| CTT | 4.14 | 2 | iPn | 29 49.50 | -1.6 | AYN | 10.41 | 139 | eP | 31 17.30 | -1.6 | LSD | 17.92 | 305 | P | 32 59.67 | 2.1 |
| IKL | 4.46 | 98 | iPn | 29 59.00 | 3.3X | MEU | 10.63 | 274 | P | 31 20.20 | -1.8 | CLL | 17.94 | 328 | eP | 32 59.00 | 1.6 |
| BBTK | 4.55 | 50 | iP | 29 59.50 | 2.5 | PZI | 10.65 | 274 | P | 31 20.10 | -2.0 | | 2.1s | 145.00nm | | | 4.7mb |
| | | | iS | 31 17.50 | | DUI | 11.63 | 298 | P | 31 38.60 | 3.1X | RRL | 17.98 | 303 | P | 33 01.62 | 3.3X |
| NEO | 4.56 | 302 | ePn | 29 54.00 | -3.2X | RFI | 11.86 | 296 | P | 31 40.00 | 1.5 | MOX | 18.09 | 324 | eP | 33 02.00 | 2.6 |
| PAIG | 4.61 | 311 | ePn | 29 55.50 | -2.3 | MSL | 12.00 | 89 | ePc | 31 46.50 | 6.0X | | 1.7s | 151.00nm | | | 4.9mb |
| CSS | 4.62 | 115 | ePn | 30 00.00 | 2.1 | | | | eS | 34 41.50 | | Z | 10s | 3.10um | | | |
| | | | eSn | 30 52.00 | | USI | 12.02 | 283 | P | 31 40.30 | -0.4 | N | 14s | 4.00um | | | |
| LFK | 4.63 | 110 | iPn | 30 00.50 | 2.3 | SDI | 12.10 | 297 | P | 31 41.90 | 0.0 | E | 15s | 2.90um | | | |
| RDO | 4.63 | 334 | ePn | 29 56.20 | -1.9 | PSZ | 12.51 | 333 | eP | 31 48.00 | 0.6 | | | e(S) | 39 20.00 | | |
| DMK | 4.82 | 356 | iPn | 29 58.70 | -2.1 | ZAG | 12.71 | 318 | e(P) | 31 46.50 | -3.5X | | | LR | 40 52.00 | | |
| PLG | 5.03 | 313 | ePn | 29 59.50 | -4.3X | | | | i(S) | 36 02.50 | | BNI | 18.10 | 303 | P | 32 59.60 | -0.1 |
| FAM | 5.09 | 112 | eP | 30 08.50 | 3.8X | VBV | 12.92 | 315 | eP | 31 53.90 | 1.1 | LPG | 18.20 | 304 | eP | 33 04.10 | 3.1X |
| KDZ | 5.12 | 336 | iPd | 30 08.00 | 2.9X | SRO | 13.03 | 329 | e(P) | 31 55.00 | 0.8 | | 0.8s | 32.20nm | | | 4.5mb |
| | | | iS | 30 48.00 | | | | | e | 32 11.00 | | LOMF | 18.87 | 310 | P | 33 10.81 | 1.8 |
| SOH | 5.38 | 317 | ePn | 30 06.80 | -2.0 | SPC | 13.49 | 337 | eP | 32 06.00 | 5.6X | MOF | 18.91 | 312 | P | 33 11.22 | 1.7 |
| RZN | 5.41 | 331 | iPc | 30 07.00 | -2.3 | CEY | 13.53 | 314 | e(P) | 32 04.00 | 3.1X | CDF | 19.09 | 313 | P | 33 11.70 | 0.0 |
| DIM | 5.45 | 338 | iP | 30 08.00 | -1.7 | LJU | 13.65 | 316 | eP | 32 03.50 | 1.1 | BSF | 19.10 | 311 | P | 33 11.42 | -0.5 |
| | | | Sg | 31 39.00 | | ZST | 13.84 | 327 | e(P) | 32 15.00 | 10.1X | GWf | 19.17 | 315 | P | 33 10.58 | -2.1 |
| LIT | 5.45 | 306 | ePn | 30 07.60 | -2.2 | RSM | 13.84 | 305 | P | 32 02.40 | -2.6 | HAU | 19.45 | 311 | eP | 33 17.80 | 1.8 |
| SRS | 5.46 | 320 | ePn | 30 07.70 | -2.2 | TRI | 13.89 | 313 | eP | 32 05.70 | 0.1 | | 0.8s | 24.10nm | | | 4.5mb |
| THE | 5.47 | 313 | ePn | 30 08.20 | -1.8 | | | | i | 32 17.60 | | VITF | 19.76 | 312 | P | 33 17.41 | -1.9 |
| | | | e | 31 08.10 | | | | | e | 35 11.00 | | WLF | 20.35 | 315 | P | 33 28.00 | 2.5 |
| MMB | 5.75 | 324 | iPd | 30 12.00 | -2.0 | | | | e | 36 21.00 | | SMF | 20.49 | 306 | eP | 33 24.80 | -2.3 |
| KNT | 5.86 | 317 | ePn | 30 13.70 | -1.8 | VOY | 14.00 | 315 | eP | 32 06.30 | -0.9 | LBF | 20.52 | 307 | eP | 33 26.80 | -0.6 |
| GRG | 6.01 | 313 | ePn | 30 16.30 | -1.3 | | | | i | 32 09.00 | | | 1.0s | 28.00nm | | | 4.6mb |
| KZN | 6.03 | 305 | ePn | 30 18.90 | 1.0 | SLY | 14.00 | 91 | ePd | 32 12.00 | 4.9X | LOR | 20.70 | 307 | eP | 33 29.70 | 0.5 |
| VAY | 6.15 | 316 | iPn | 30 18.30 | -1.3 | | | | eS | 36 16.00 | | | 1.2s | 77.30nm | | | 4.9mb |
| VLS | 6.18 | 283 | ePb | 30 24.20 | 4.3X | | | | iSS | 37 20.50 | | SSF | 20.85 | 307 | eP | 33 30.60 | -0.2 |
| PGB | 6.36 | 332 | iPc | 30 20.00 | -2.5 | MAO | 14.20 | 298 | P | 32 09.80 | 0.1 | AVF | 20.86 | 306 | eP | 33 28.70 | -2.2 |
| PVL | 6.58 | 341 | iPd | 30 23.00 | -2.7 | VKA | 14.24 | 326 | e(P) | 32 15.00 | 4.8X | MEM | 20.92 | 318 | P | 33 33.60 | 2.2 |
| PSN | 6.67 | 360 | iPd | 30 25.00 | -1.8 | | 5.5s | 821.00nm | | | 5.7mb X | ENN | 21.05 | 318 | iP | 33 36.20 | 3.5X |
| VTS | 6.78 | 327 | iP | 30 27.00 | -1.6 | | | | LR | 38 36.00 | | | 1.0s | 41.00nm | | | 4.8mb |
| BHL | 6.81 | 115 | Pn | 30 28.50 | -0.4 | PGD | 14.31 | 304 | P | 32 14.10 | 2.8X | | | i | 33 40.00 | | |
| | | | Sn | 31 45.00 | | KRA | 14.35 | 338 | eP | 32 21.80 | 10.3X | BGF | 21.12 | 305 | eP | 33 31.50 | -2.0 |
| KBN | 6.82 | 304 | ePn | 30 31.00 | 2.0 | | Z | 12s | 2.80um | | | MAF | 21.20 | 304 | eP | 33 34.30 | -0.1 |
| OHR | 7.08 | 308 | iPn | 30 32.40 | -0.4 | | N | 12s | 2.60um | | | | 1.2s | 66.60nm | | | 4.9mb |
| | 1.3s | | 0.10nm | | 2.8mb X | | | | e | 32 26.60 | | WTS | 21.28 | 322 | eP | 33 37.00 | 1.9 |
| ATZ | 7.13 | 124 | eP | 30 33.70 | 0.2 | | | | e | 36 29.00 | | | 1.0s | 36.00nm | | | 4.7mb |
| | | | eS | 31 54.10 | | TAB | 14.40 | 80 | eP | 32 20.00 | 7.4X | DOU | 21.44 | 315 | P | 33 39.70 | 3.0X |
| SKO | 7.22 | 315 | iPn | 30 33.70 | -0.9 | FIR | 14.58 | 303 | eP | 32 30.00 | 15.4X | | 0.8s | 21.60nm | | | 4.6mb |
| | N | 18s | 8.22um | | | KBA | 14.92 | 317 | eP | 32 23.00 | 3.7X | TCF | 21.46 | 304 | eP | 33 37.00 | 0.0 |
| | | | iSn | 32 04.00 | | | 2.0s | 92.00nm | | | 4.9mb | | 0.9s | 31.10nm | | | 4.7mb |
| | | | LR | 33 42.00 | | | | | i | 32 28.00 | | SNF | 21.81 | 316 | Pd | 33 41.40 | 0.9 |
| TPE | 7.22 | 300 | ePn | 30 36.00 | 1.4 | | | | i | 32 35.00 | | WIT | 21.84 | 323 | eP | 33 43.00 | 2.3 |
| KVT | 7.32 | 54 | iP | 30 38.10 | 2.0 | | | | i | 33 13.10 | | UCC | 21.91 | 317 | P | 33 44.30 | 2.8X |
| BERA | 7.44 | 302 | ePn | 30 39.50 | 1.9 | FVI | 14.96 | 315 | P | 32 23.00 | 3.5X | MFF | 23.11 | 303 | eP | 33 52.40 | -1.0 |
| MML | 7.47 | 126 | iPc | 30 38.20 | 0.0 | MME | 15.11 | 304 | P | 32 19.70 | -2.1 | | 1.1s | 92.70nm | | | 5.2mb |
| BUC1 | 7.52 | 348 | eP | 31 36.50 | 57.8X | CTI | 15.33 | 311 | P | 32 23.90 | -0.6 | LDF | 23.66 | 308 | eP | 33 57.40 | -1.3 |
| 8UC | 7.57 | 348 | ePd | 30 41.00 | 1.5 | KER | 15.57 | 94 | eP | 32 35.00 | 7.2X | | 1.1s | 75.20nm | | | 5.2mb |
| TLB | 7.57 | 359 | ePd | 30 38.00 | -1.5 | CVF | 15.87 | 296 | eP | 32 36.50 | 5.0X | FLN | 23.94 | 308 | eP | 34 00.40 | -1.0 |
| HLW | 7.59 | 159 | ePc | 30 40.00 | 0.2 | | 1.0s | 24.00nm | | | 4.3mb | | 1.0s | 41.60nm | | | 5.0mb |
| | | | S | 32 00.00 | | KHC | 16.13 | 323 | eP | 32 38.60 | 3.8X | LPF | 24.08 | 306 | eP | 34 00.50 | -2.2 |
| PHP | 7.63 | 310 | ePn | 30 42.30 | 2.0 | BOB | 16.15 | 304 | P | 32 36.60 | 1.4 | HFS | 24.95 | 343 | eP | 34 09.80 | -1.2 |
| VLO | 7.65 | 300 | ePn | 30 43.20 | 2.6 | KSP | 16.25 | 332 | eP | 32 40.50 | 4.2X | | 0.4s | 2.70nm | | | 4.3mb |
| KOT | 7.67 | 156 | eP | 30 38.50 | -2.5 | | 1.6s | 52.00nm | | | 4.4mb | MAIO | 25.04 | 82 | eP | 34 14.00 | 1.7 |
| TIR | 7.80 | 306 | ePn | 30 49.70 | 6.9X | PRU | 16.30 | 327 | eP | 32 38.00 | 1.1 | | 0.9s | 9.80nm | | | 4.5mb |
| BURJ | 7.84 | 125 | Pc | 30 43.00 | -0.4 | | N | 12s | 2.60um | | | TOL | 25.37 | 286 | eP | 34 15.00 | -0.3 |
| KKS | 7.88 | 312 | ePn | 30 45.00 | 1.2 | | E | 12s | 3.40um | | | ASMO | 25.41 | 281 | eP | 34 18.40 | 2.6 |
| SALJ | 7.92 | 127 | P | 30 44.00 | -0.5 | | | | e | 32 43.00 | | APHE | 25.44 | 280 | eP | 34 16.70 | 0.6 |
| JARJ | 7.94 | 125 | Pc | 30 45.50 | 0.6 | FIN | 16.79 | 302 | P | 32 43.57 | 0.3 | ATEJ | 25.70 | 280 | eP | 34 20.00 | 1.4 |
| KFNJ | 8.01 | 128 | P | 30 45.20 | -0.5 | IMI | 16.92 | 300 | P | 32 46.24 | 1.3 | AAPN | 25.72 | 281 | eP | 34 19.50 | 0.8 |
| DSI | 8.03 | 130 | eP | 30 45.70 | -0.2 | VAI | 17.03 | 307 | P | 32 48.80 | 2.7 | ALOJ | 25.74 | 280 | eP | 34 22.50 | 3.6X |
| LACI | 8.06 | 308 | ePn | 30 49.70 | 3.4X | ROB | 17.05 | 302 | P | 32 47.26 | 0.7 | SUF | 25.77 | 358 | eP | 34 21.00 | 2.3 |
| MASJ | 8.13 | 128 | P | 30 47.00 | -0.4 | SAOF | 17.17 | 300 | P | 32 50.22 | 2.2 | NB2 | 26.35 | 341 | P | 34 21.10 | -3.1X |
| PUK | 8.17 | 311 | ePn | 30 48.00 | 0.1 | BRG | 17.21 | 328 | eP | 32 50.80 | 2.4 | | 0.9s | 7.70nm | | | 4.4mb |
| CFR | 8.17 | 360 | ePd | 30 46.50 | -1.3 | | 2.0s | 90.00nm | | | 4.6mb | KJF | 27.23 | 360 | iP | 34 31.40 | -0.7 |
| MKRJ | 8.20 | 129 | P | 30 48.20 | -0.2 | | | | e | 33 31.40 | | | 1.0s | 40.00nm | | | 5.1mb |
| ISR | 8.22 | 352 | eP | 30 51.00 | 2.4 | SBF | 17.22 | 300 | eP | 32 50.20 | 1.5 | | | eS | 39 20.00 | | |
| DRA | 8.23 | 340 | ePd | 30 49.00 | 0.3 | | 0.8s | 30.60nm | | | 4.5mb | IFR | 27.38 | 273 | iP | 34 34.00 | 0.0 |
| BCI | 8.26 | 313 | ePn | 30 48.80 | -0.3 | GRB1 | 17.25 | 321 | eP | 32 51.60 | 2.7 | EKA | 28.07 | 321 | P | 34 41.00 | 1.1 |
| | | | | | | | | | | | | | | | | | |

19d 14h

| | | | | | |
|-------------------------------|-------|---------|----|---------|-------|
| | | id | 35 | 39.00 | |
| | | id | 40 | 52.00 | |
| | | ic | 45 | 51.90 | |
| KSH | 37.25 | 71 eP | 36 | 01.50 | 1.4 |
| NDI | 41.61 | 87 eP | 36 | 34.00 | -2.3 |
| KIC | 42.82 | 233 P | 36 | 43.20 | -3.1X |
| LIC | 43.11 | 233 P | 36 | 46.80 | -1.9 |
| DAG | 44.85 | 346 eP | 37 | 03.00 | 0.9 |
| WMO | 44.94 | 62 iPd | 37 | 04.00 | 0.7 |
| Z | 16s | 0.70um | | 4.7mszX | |
| GBA | 49.57 | 105 P | 37 | 40.00 | 0.3 |
| KOD | 51.67 | 108 eP | 37 | 52.00 | -4.1X |
| GTA | 54.91 | 64 Pd | 38 | 19.20 | -0.6 |
| AVY | 58.59 | 158 eP | 38 | 46.60 | 0.5 |
| LZH | 59.17 | 66 e(P) | 38 | 50.00 | 0.0 |
| FRB | 60.34 | 329 eP | 38 | 54.00 | -3.5X |
| BTO | 61.61 | 59 eP | 39 | 07.00 | 0.4 |
| SLR | 62.41 | 180 eP | 39 | 13.00 | 1.0 |
| KSR | 62.55 | 181 eP | 39 | 15.00 | 2.1 |
| HHC | 62.55 | 58 Pd | 39 | 12.90 | 0.0 |
| CHG | 63.74 | 86 eP | 39 | 25.10 | 4.2X |
| XAN | 63.81 | 66 P | 39 | 21.60 | 0.4 |
| TIY | 64.59 | 61 P | 39 | 26.00 | -0.3 |
| SEK | 64.99 | 181 iPc | 39 | 32.50 | 3.6X |
| MBC | 65.15 | 352 eP | 39 | 27.00 | -2.3 |
| GYA | 65.83 | 74 P | 39 | 36.00 | 1.5 |
| BJI | 66.04 | 57 eP | 39 | 35.00 | -0.5 |
| SNY | 69.98 | 52 eP | 40 | 01.20 | 1.2 |
| CN2 | 70.09 | 50 P | 40 | 03.00 | 2.3 |
| PSI | 73.00 | 100 eP | 40 | 23.00 | 4.4X |
| INK | 74.11 | 353 eP | 40 | 21.50 | -2.6 |
| SSE | 74.18 | 63 P | 40 | 29.50 | 4.3X |
| YKC | 76.41 | 343 eP | 40 | 38.00 | 0.6 |
| FFC | 79.14 | 333 eP | 40 | 50.00 | -2.6 |
| | 1.0s | 14.00nm | | 4.9mb | |
| MAT | 82.24 | 50 (P) | 41 | 09.00 | -0.4 |
| EDM | 84.16 | 338 ePc | 41 | 19.60 | 0.7 |
| SES | 85.86 | 335 eP | 41 | 29.00 | 1.5 |
| S.D. = 1.5 on 182 of 231 obs. | | | | | |

FEB 19, 1989 15h 33m 19.98±1.16s
 36.872 N ± 8.6km 27.662 E ± 11.7km
 DEPTH = 10.0km (geophysicist)
 DODECANESE ISLANDS (369)

| | | | | | |
|-----------------------------|------|---------|----|-------|------|
| Izm | 1.56 | 348 iPn | 33 | 49.90 | 2.1 |
| ELL | 1.81 | 93 iPn | 33 | 52.40 | 0.9 |
| KHL | 2.07 | 45 iPn | 33 | 54.90 | -0.4 |
| BCK | 2.41 | 75 iPn | 34 | 01.10 | 0.9 |
| DST | 2.83 | 15 iPn | 34 | 05.40 | -0.7 |
| EZN | 3.13 | 341 ePn | 34 | 10.00 | -0.2 |
| KCT | 3.42 | 9 iPn | 34 | 12.70 | -1.7 |
| EDC | 3.47 | 3 iPn | 34 | 14.70 | -0.4 |
| BNT | 3.49 | 3 iPn | 34 | 14.70 | -0.6 |
| IKL | 4.89 | 96 iPn | 34 | 36.00 | 0.7 |
| BBTK | 4.98 | 52 iPc | 34 | 36.50 | -0.2 |
| ADI | 7.27 | 119 eP | 35 | 08.50 | -0.3 |
| | | eS | 36 | 23.50 | |
| DSI | 8.29 | 127 ePc | 35 | 22.50 | -0.6 |
| | | eS | 36 | 48.00 | |
| MLR | 8.71 | 352 eP | 35 | 30.00 | 1.0 |
| PRNI | 8.93 | 135 ePd | 35 | 31.50 | -0.5 |
| S.D. = 1.0 on 15 of 15 obs. | | | | | |

FEB 19, 1989 17h 10m 41.47±0.38s
 42.743 N ± 3.4km 13.027 E ± 4.9km
 DEPTH = 10.8 ± 3.9 km
 CENTRAL ITALY (381)
 MD 3.4 (TRI), 3.0 (SSO).

| | | | | | |
|-----|------|----------|----|-------|------|
| ALP | 0.41 | 85 iPg | 10 | 49.79 | -0.1 |
| | | iSg | 10 | 56.21 | |
| ASS | 0.42 | 321 P | 10 | 50.20 | 0.0 |
| | | eSg | 10 | 55.50 | |
| MNS | 0.44 | 216 Pc | 10 | 50.80 | 0.3 |
| | | eSg | 10 | 56.40 | |
| CIO | 0.46 | 11 iPg | 10 | 50.56 | -0.3 |
| | | iSg | 10 | 58.02 | |
| SSO | 0.62 | 28 e(Pg) | 10 | 54.09 | 0.2 |
| | | e(Sg) | 11 | 04.25 | |
| ARV | 0.76 | 355 P | 10 | 56.00 | -0.2 |
| | | eSg | 11 | 07.70 | |
| AZI | 0.81 | 158 P | 10 | 58.00 | 0.9 |
| | | eSg | 11 | 11.00 | |
| AOI | 0.91 | 27 iPg | 10 | 58.72 | -0.1 |
| | | iSg | 11 | 14.27 | |
| RMP | 0.96 | 195 P | 10 | 59.50 | -0.2 |

| | | | | | |
|-----------------------------|------|----------|----|-------|-------|
| RDP | 1.01 | 193 P | 11 | 00.60 | 0.0 |
| | | eSg | 11 | 15.60 | |
| RSM | 1.26 | 341 P | 11 | 05.60 | 0.9 |
| MAO | 1.42 | 257 P | 11 | 06.30 | -0.9 |
| SFI | 1.46 | 324 P | 11 | 08.40 | 0.7 |
| PGD | 1.48 | 320 P | 11 | 08.80 | 0.6 |
| FIR | 1.66 | 309 eP | 11 | 38.00 | 27.5X |
| TRI | 3.01 | 10 e(Pn) | 11 | 29.70 | -0.2 |
| | | i(Sn) | 12 | 06.70 | |
| | | i(Sg) | 12 | 20.80 | |
| | | i | 12 | 24.50 | |
| VBV | 3.19 | 29 eP | 11 | 42.00 | 9.5X |
| VOY | 3.35 | 10 e(Pn) | 11 | 35.70 | 0.9 |
| | | eSn | 12 | 17.10 | |
| LJU | 3.47 | 18 eP | 11 | 37.00 | 0.5 |
| | | e(Sn) | 12 | 19.00 | |
| RBL | 3.72 | 6 P | 11 | 39.00 | -1.1 |
| FVI | 3.85 | 357 P | 11 | 40.20 | -1.7 |
| | | eSn | 12 | 24.70 | |
| KBA | 4.34 | 3 iP | 11 | 50.00 | 1.0 |
| | 0.6s | 2.90nm | | | |
| | | i | 12 | 41.00 | |
| | | e | 13 | 05.00 | |
| | | i | 13 | 11.70 | |
| S.D. = 0.8 on 20 of 22 obs. | | | | | |

* FEB 19, 1989 17h 42m 49.14±1.97s
 40.111 N ± 16.3km 21.764 E ± 11.9km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 2.3 (THE).

| | | | | | |
|---------------------------|------|---------|----|-------|------|
| LIT | 0.56 | 91 ePg | 43 | 00.20 | -0.3 |
| | | eSg | 43 | 08.70 | |
| GRG | 0.97 | 30 ePg | 43 | 06.90 | -0.8 |
| | | eSg | 43 | 20.60 | |
| OHR | 1.24 | 324 iPn | 43 | 12.20 | 0.0 |
| KNT | 1.36 | 39 ePb | 43 | 14.60 | 0.5 |
| SOH | 1.41 | 59 ePb | 43 | 15.60 | 0.8 |
| PAIG | 1.48 | 97 eP | 43 | 15.60 | -0.2 |
| SKO | 1.88 | 353 ePn | 43 | 27.00 | 5.5X |
| | | eSn | 43 | 48.00 | |
| S.D. = 0.7 on 6 of 7 obs. | | | | | |

* FEB 19, 1989 17h 48m 27.43±0.57s
 8.850 S ± 10.6km 105.959 E ± 9.2km
 DEPTH = 33.0km (normol)
 4.9mb (8 obs.)
 SOUTH OF JAVA (282)

| | | | | | |
|------|-------|----------|----|-------|-------|
| KSI | 6.17 | 327 ePc | 49 | 57.80 | -0.8 |
| | | e | 50 | 53.00 | |
| TRT | 6.70 | 81 iPc | 50 | 06.80 | 0.6 |
| KHKI | 9.55 | 88 eP | 50 | 43.00 | -2.8 |
| | | eS | 52 | 23.30 | |
| | | e | 53 | 53.50 | |
| PPI | 10.01 | 326 e(P) | 51 | 50.50 | 58.4X |
| NANU | 16.44 | 147 eP | 52 | 12.00 | -5.3X |
| | | eS | 55 | 01.00 | |
| CHG | 28.34 | 346 eP | 54 | 20.50 | -0.1 |
| WRA | 29.57 | 115 P | 54 | 33.00 | 1.3 |
| | 0.9s | 4.50nm | | 4.2mb | |
| WB5 | 29.57 | 115 eP | 54 | 31.70 | 0.0 |
| GBA | 36.05 | 308 Pd | 55 | 36.60 | 8.6X |
| | 0.8s | 6.30nm | | 4.6mb | |
| HYB | 37.61 | 314 eP | 55 | 48.00 | 6.8X |
| CTA | 40.48 | 111 iPc | 56 | 06.90 | 1.9 |
| | 1.0s | 17.50nm | | 4.8mb | |
| SSE | 42.31 | 20 Pc | 56 | 20.50 | 0.6 |
| XAN | 42.74 | 4 P | 56 | 23.00 | -0.4 |
| TIY | 46.71 | 7 eP | 56 | 55.50 | 0.3 |
| GTA | 48.35 | 354 eP | 57 | 09.00 | 0.9 |
| BTO | 49.34 | 4 eP | 57 | 16.00 | 0.3 |
| BJI | 49.55 | 10 eP | 57 | 27.00 | 9.8X |
| WMO | 54.98 | 344 P | 57 | 59.00 | 1.1 |
| CN2 | 55.31 | 17 Pc | 57 | 59.00 | -1.1 |
| | | pP | 58 | 07.50 | 28kmX |
| BFT | 73.57 | 246 iPc | 60 | 14.00 | 14.2X |
| | 0.4s | 76.27nm | | | |
| SEK | 75.62 | 243 iPc | 60 | 11.50 | -0.1 |
| | 1.0s | 50.00nm | | 5.5mb | |
| PRY | 75.82 | 244 iPd | 60 | 21.50 | 8.8X |
| | 0.6s | 5.36nm | | 4.7mb | |
| KSR | 76.39 | 246 iPc | 60 | 33.00 | 17.0X |
| | 0.9s | 103.85nm | | | |
| BFS | 76.44 | 244 iPc | 60 | 27.00 | 10.8X |

| | | | | | |
|-----------------------------|--------|------------|----|-------|--------|
| FRS | 1.0s | 120.00nm | | | |
| | 77.57 | 241 iPd | 00 | 20.00 | -2.2 |
| | 0.9s | 47.06nm | | | 5.5mb |
| | | i | 03 | 53.00 | |
| SWZ | 77.72 | 244 iPc | 00 | 34.50 | 11.2X |
| | 1.0s | 150.00nm | | | |
| TUH | 82.56 | 237 iPc | 00 | 49.00 | 0.2 |
| | 0.6s | 40.00nm | | | 5.7mb |
| BNG | 88.12 | 275 ePc | 01 | 19.00 | 2.1 |
| | 0.6s | 3.00nm | | | 4.8mb |
| MLR | 89.32 | 316 eP | 01 | 11.00 | -11.0X |
| BMA | 137.11 | 223 ePKP | 07 | 43.50 | -6.4X |
| ITA | 137.69 | 222 ePKP | 07 | 51.60 | 0.2 |
| VAO | 138.72 | 219 e(PKP) | 07 | 51.00 | -1.9 |
| S.D. = 1.4 on 20 of 32 obs. | | | | | |

FEB 19, 1989 17h 55m 48.57±0.41s
 39.219 S ± 10.7km 46.076 E ± 6.7km
 DEPTH = 10.0km (geophysicist)
 5.2mb (11 obs.) 5.2msz (1 obs.)
 ATLANTIC-INDIAN RISE (428)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 21C
 Centroid Location:
 Origin Time 17:55:54.8 1.0
 Lat 38.77S 0.10 Lon 46.52E 0.11
 Dep 15.0 FIX Half-duration 1.4
 Moment Tensor: Scale 10**16 Nm
 Mrr=-0.61 0.39 Mtt= 2.34 0.59
 Mff=-1.73 0.39 Mrt= 0.00 0.00
 Mrf= 0.00 0.00 Mtf= 4.80 0.38
 Principal Axes:
 T Val= 5.52 Plg= 0 Azm=146
 N -0.61 90 180
 P -4.91 0 56
 Best Double Couple: Mo=5.2*10**16
 NP1: Strike=191 Dip=90 Slip= 180
 NP2: 281 90 0

| | | | | | |
|------|-------|----------|----|-------|-------|
| GRM | 16.79 | 285 iPd | 59 | 45.00 | -0.3 |
| | 0.5s | 56.34nm | | | 5.0mb |
| HVD | 18.91 | 291 iPc | 00 | 30.00 | 18.2X |
| | | S | 04 | 40.00 | |
| BPI | 19.95 | 305 iPd | 00 | 22.50 | -1.3 |
| | | S | 03 | 51.50 | |
| SLR | 20.10 | 307 iPc+ | 00 | 24.00 | -1.4 |
| | 1.0s | 92.00nm | | | 5.1mb |
| | | S | 04 | 00.00 | |
| AVY | 20.28 | 5 iPc | 00 | 26.56 | -0.8 |
| BUL | 24.24 | 317 iPc | 01 | 05.90 | -0.9 |
| PTZ | 28.06 | 328 iPd | 01 | 40.90 | -1.4 |
| | | i | 02 | 12.60 | |
| LSZ | 28.56 | 322 iPc | 01 | 46.30 | -0.5 |
| | | i | 02 | 23.80 | |
| KMZ | 31.27 | 320 iPd | 02 | 11.20 | 0.2 |
| | | i | 02 | 56.20 | |
| NAI | 38.70 | 345 eP | 03 | 20.00 | 5.3X |
| LWI | 40.04 | 333 iPc | 03 | 26.60 | 0.9 |
| BNG | 50.32 | 323 iPc | 04 | 47.50 | -0.1 |
| | 0.3s | 40.00nm | | | 5.9mb |
| | | ic | 04 | 54.10 | |
| KOD | 57.21 | 38 eP | 05 | 38.50 | -0.2 |
| GBA | 60.15 | 36 Pc | 05 | 57.30 | -1.4 |
| | 0.6s | 8.50nm | | | 5.1mb |
| MEKA | 60.65 | 102 eP | 06 | 01.00 | -1.2 |
| HYB | 64.00 | 35 eP | 06 | 24.00 | -0.5 |
| KIC | 65.26 | 302 Pc | 06 | 33.00 | 0.2 |
| LIC | 65.35 | 302 Pc | 06 | 33.60 | 0.3 |
| | 0.6s | 11.00nm | | | 5.2mb |
| TIC | 65.65 | 302 Pc | 06 | 35.64 | 0.3 |
| | 0.9s | 34.00nm | | | 5.6mb |
| IPM | 66.75 | 63 ePc | 06 | 42.10 | -0.2 |
| | 1.0s | 34.60nm | | | 5.5mb |
| TRT | 67.04 | 81 iPc | 06 | 44.50 | 0.3 |
| | 0.8s | 41.70nm | | | 5.7mb |
| QUE | 71.74 | 19 iPc | 07 | 13.50 | 0.6 |
| ASPA | 73.84 | 107 iPd | 07 | 24.60 | -0.8 |
| | 0.9s | 16.00nm | | | 5.1mb |
| STK | 74.49 | 119 iPc | 07 | 28.80 | -0.2 |
| WRA | 76.37 | 105 Pd | 07 | 39.30 | -0.6 |
| | 0.9s | 9.00nm | | | 4.9mb |
| WB5 | 76.43 | 105 eP | 07 | 39.80 | -0.4 |
| QIS | 79.92 | 108 eP | 07 | 59.00 | -0.4 |
| LSA | 80.39 | 39 P | 08 | 03.10 | 0.9 |
| VAY | 82.97 | 342 eP | 08 | 15.30 | 0.5 |
| OHR | 83.21 | 341 eP | 08 | 16.70 | 0.6 |

SKO 83.86 342 eP 08 17.50 -1.8
CTA 85.07 112 eP 08 26.00 0.0
1.0s 10.50nm 5.0mb
CFR 85.56 347 ePd 08 29.00 1.3
TIO 85.61 316 iP 08 31.00 2.5
MLR 86.25 346 ePc 08 32.00 0.7
GYA 86.39 51 P 08 33.00 0.6
VRI 86.47 347 ePc 08 33.00 0.8
CD2 87.99 47 eP 08 40.40 0.4
PSZ 89.83 343 eP 08 48.30 -0.1
ZST 90.76 341 eP 08 53.30 0.8
WMO 90.81 29 eP 08 54.30 1.3
SPC 90.95 343 iP 08 54.90 1.3
GTA 92.42 39 P 09 00.00 -0.6
ZOBO 97.50 242 (P) 09 30.00 5.0X
LR 44 24.00

DAG 122.46 346 ePKP 14 43.50 -0.8
MBC 142.31 354 ePKP 15 14.00 -7.7X
BRW 145.79 13 ePKP 15 28.40 0.7
RLO 149.22 277 ePKP 15 39.00 4.6X
VVO 149.52 275 ePKP 15 39.70 4.9X
LNO 149.74 276 ePKP 15 40.00 5.0X
TUL 149.74 276 ePKP 15 40.30 5.2X
1.2s 12.30nm
Z 19s 0.39um 5.2MsZ

SIO 150.09 275 e(PKP) 15 40.90 5.3X
IMA 150.83 16 ePKP 15 42.40 6.4X
0.9s 18.70nm
INK 150.86 360 ePKP 15 41.00 5.3X
MEO 151.55 272 ePKP 15 44.80 6.9X
0.5s 3.30nm

FFC 153.55 316 ePKP 15 47.00 6.9X
0.9s 12.00nm
YKA 153.91 340 PKP 15 48.90 8.6X
KDC 157.88 27 ePKP 15 46.00 0.4
PNT 165.64 319 ePKP 15 58.00 4.3X
S.D. = 0.9 on 44 of 59 obs.

FEB 19, 1989 21h 40m 35.51±0.55s
40.999 N ± 5.8km 27.900 E ± 5.5km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 3.2 (ATH).

CTT 0.43 70 iPg 40 44.00 -0.2
eSg 40 51.50
BNT 0.64 179 iPg 40 47.00 -1.4
EDC 0.65 182 iPg 40 47.70 -0.8
eSg 40 56.70
KCT 0.83 155 iPg 40 50.50 -1.0
iSg 41 02.50
DMK 0.83 353 iPg 40 49.70 -1.8
iSg 41 01.60
ISK 0.88 85 iPg 40 52.30 -0.1
eSg 41 06.50
GBZT 1.19 100 ePn 41 02.60 4.9X
iSg 41 20.70
YLV 1.20 111 iPn 40 58.00 0.1
HRT 1.35 97 ePn 41 01.70 1.3
DST 1.50 158 iPn 41 02.40 -0.1
EZN 1.68 226 ePn 41 12.20 7.2X
RDO 1.79 275 iPbd 41 04.30 -2.4
GPA 1.97 110 ePn 41 11.00 1.8
KDZ 1.98 290 iPd 41 16.00 6.6X
iS 41 39.00
DIM 2.06 301 eP 41 15.00 4.4X
PRK 2.15 216 ePb 41 12.00 0.1
RZN 2.49 287 iPc 41 19.00 2.0
PLD 2.64 296 eP 41 25.00 6.1X
IZM 2.64 191 ePn 41 23.00 4.0X
PSN 2.69 4 eP 41 27.00 7.4X
PVL 2.93 320 iPd 41 42.00 19.1X
MMB 3.20 282 eP 41 32.00 5.2X
iS 42 08.00
PLG 3.44 261 ePb 41 33.00 2.7
VTS 3.85 296 eP 41 37.00 0.8
iSg 42 39.00
VAY 4.04 276 ePn 41 47.00 8.3X
MLR 4.71 343 ePc 41 48.00 -0.4
VRI 4.94 350 eP 41 51.00 -0.5
SKO 4.95 283 ePn 42 07.00 15.3X
S.D. = 1.5 on 17 of 28 obs.

FEB 19, 1989 21h 43m 28.03±0.73s
8.308 S ± 9.0km 116.116 E ± 8.1km
DEPTH = 172.1 ± 7.6 km
4.4mb (5 obs.)

SUMBAWA ISLAND REGION (285)

KHKI 0.51 264 iPc 43 51.90 -0.2
iS 44 04.80
e 49 15.00
TRT 3.50 280 iPd 44 24.80 1.7
iS 44 55.00
MBL 13.27 165 eP 46 29.00 -2.0
eS 48 42.00
NANU 14.18 182 eP 46 42.20 -0.3
0.3s 7.00nm 4.5mb
eS 49 08.00
MTN 15.43 108 iPd 46 56.90 -1.1
e 47 00.00
e 49 35.00
MEKA 18.35 173 eP 47 31.80 -0.4
0.3s 14.00nm 4.8mb
eS 50 46.00
PSI 20.33 302 eP 47 52.10 -0.5
WARB 20.40 152 eP 47 45.00 -8.3X
eS 51 28.00
WB5 21.08 125 eP 48 00.70 0.6
eS 51 43.00
eScP 55 21.20
WRA 21.09 125 Pc 48 00.20 0.0
0.2s 1.10nm 4.0mb
BAL 22.19 179 eP 48 11.50 0.7
eS 52 16.00
ASPA 22.88 134 eP 48 19.30 1.7
0.5s 9.00nm 4.5mb
COOL 22.95 169 eP 48 18.40 0.2
eS 52 29.00
KLB 23.22 176 eP 48 21.00 0.2
eS 52 39.00
NWA0 24.52 178 eP 48 33.00 -0.1
FORR 25.07 155 eP 48 38.00 -0.1
OIS 25.76 121 eP 48 45.00 0.3
CTA 31.41 115 eP 49 36.00 0.9
BRS 39.50 123 eP 50 24.00 -19.6X
GBA 44.14 299 P 51 21.00 -0.4
0.4s 0.90nm 3.7mb
HYB 45.07 305 eP 51 27.00 -1.8
AVY 66.96 253 eP 54 05.40 0.6
YKA 114.71 23 PKP 01 49.20 0.1
S.D. = 1.0 on 21 of 23 obs.

* FEB 19, 1989 22h 26m 24.34±1.48s
32.143 S ± 5.6km 72.090 W ± 14.3km
DEPTH = 46.3 ± 11.6 km
4.8mb (2 obs.)

OFF COAST OF CENTRAL CHILE (134)

ROCH 1.23 133 iPd 26 44.90 -0.7
iS 27 00.30
JACH 1.38 113 iPc 26 45.80 -1.8
LCCH 1.40 162 iPc 26 52.80 5.0X
iS 27 17.00
PEL 1.55 130 iPc 26 50.00 0.0
SAN 1.78 138 iPc 26 52.80 -0.3
iS 27 17.00
TACH 1.79 148 iPd 26 53.80 0.4
LNV 1.90 163 eP 26 54.50 -0.3
iS 27 24.40
FCH 1.92 128 iPc 26 55.00 -0.5
PCH 1.98 138 iPd 26 55.90 -0.2
iS 27 21.50
CHCH 2.16 146 iP 27 00.00 1.5
iS 27 28.50
RTCB 2.88 78 iS 27 09.50 0.6
S 27 49.00
ZON 2.96 79 eP 27 10.00 -0.1
RTRS 2.99 50 ePc 27 11.00 0.6
RTCV 3.03 86 ePc 27 12.00 0.9
RTLL 3.19 76 ePc 27 13.50 0.2
S 27 57.00
CFA 3.32 82 ePc 27 15.00 -0.1
CNCB 15.71 15 P 30 05.00 0.3
LPB 15.96 14 P 30 13.00 5.3X
ZOBO 16.21 14 P 30 09.70 -1.3
Z 20s 0.09um
LR 36 32.00
LIC 74.24 72 Pc 37 57.90 -0.7
0.5s 5.00nm 4.7mb
TIC 74.49 72 P 37 59.40 -0.6
KIC 74.55 72 Pc 37 59.90 -0.5
0.7s 12.00nm 4.9mb
GBA 146.58 116 PKPd 46 03.00 1.7

0.8s 1.50nm
S.D. = 0.9 on 21 of 23 obs.

% FEB 19, 1989 22h 55m 38.82±1.84s
37.677 N ± 10.1km 141.775 E ± 19.1km
DEPTH = 33.0km (normol)

NEAR EAST COAST OF HONSHU, JAPAN (228)

OFUJ 1.40 357 iPd 56 02.30 0.0
S 56 19.00
YAMJ 1.46 290 iP+ 56 03.10 0.0
S 56 21.40
KAKJ 1.95 222 iPd 56 09.80 -0.4
S 56 32.10
NIIJ 2.25 260 iP+ 56 14.10 -0.3
CHJJ 2.76 235 P 56 21.20 -0.5
S 56 51.30
MAT 3.07 249 iPc 56 26.20 0.1
eS 57 05.00
MTMJ 3.35 252 P 56 30.30 0.0
IIDJ 3.80 236 eP 56 37.70 1.1
eS 57 20.10

S.D. = 0.6 on 8 of 8 obs.

& FEB 19, 1989 23h 47m 05.89s
59.774 N 153.410 W

DEPTH = 131.7km

SOUTHERN ALASKA (2)

<AGS-P>.

ILIM 0.38 36 iP 47 24.23 -0.6
eS 47 39.57
AUL 0.39 182 eP 47 24.72 -0.1
eS 47 38.43
RED 0.72 26 iP 47 26.16 -0.8
eS 47 41.40
CDD 0.86 188 eP 47 27.03 -0.9
eS 47 43.18
RDT 0.95 32 iP 47 28.06 -0.8
eS 47 44.86
NNL 1.10 75 iP 47 30.61 0.4
eS 47 48.94
CNPM 1.13 102 eP 47 29.76 -0.8
eS 47 48.11
NKA 1.46 47 eP 47 34.84 0.9
SPU 1.56 25 eP 47 34.42 -0.8
eS 47 56.84
CGLM 1.69 24 eP 47 35.97 -0.8
SLKM 1.76 64 eP 47 36.31 -1.2
eS 47 59.01
KDC 2.09 166 eP 47 38.73 -2.7
PMS 2.41 51 eP 47 45.10 -0.5
eS 48 12.94
KNIM 2.90 76 eP 47 49.72 -2.2
eS 48 23.23
KNK 2.95 54 eP 47 51.14 -1.3
VZW 3.64 66 eP 48 00.04 -1.6
KLU 4.07 62 eP 48 06.06 -1.5
17 obs. associated

FEB 20, 1989 00h 54m 05.29±0.90s
38.799 N ± 7.2km 22.761 E ± 10.0km
DEPTH = 10.0km (geophysicist)

GREECE (364)

ML 2.9 (ATH), 2.3 (THE).

ATH 1.12 137 ePb 54 26.10 -0.1
LIT 1.32 351 ePg 54 29.00 -0.6
PAIG 1.33 32 ePg 54 29.70 -0.1
KZN 1.69 333 ePb 54 35.20 0.2
SOH 2.07 13 ePb 54 40.90 0.3
GRG 2.17 353 ePb 54 41.90 -0.1
eS 55 00.00
KNT 2.36 3 ePb 54 44.30 -0.4
SRS 2.40 15 ePb 54 45.90 0.6
VAY 2.52 357 ePn 54 47.00 0.1
OHR 2.76 327 ePn 54 50.60 0.2
SKO 3.33 343 ePn 55 10.00 11.6X
S.D. = 0.4 on 10 of 11 obs.

* FEB 20, 1989 02h 05m 42.05±1.60s
36.205 N ± 12.4km 70.759 E ± 9.7km
DEPTH = 60.9 ± 19.4 km
4.7mb (6 obs.)

HINDU KUSH REGION (718)

MAIO 9.10 274 iPnc 07 53.20 -0.1

20d 02h

| | | | | |
|-----|-----------|---------|----------|------|
| | 0.5s | 10.20nm | 5.0mb | |
| | | eSn | 09 27.00 | |
| NDI | 9.27 142 | iPc | 07 56.00 | 0.5 |
| GKN | 14.31 121 | P | 09 03.00 | -0.1 |
| | 0.4s | 20.00nm | 4.9mb | |
| DMN | 14.88 121 | P | 09 10.60 | 0.0 |
| | 0.4s | 23.00nm | 4.8mb | |
| KKN | 14.89 120 | P | 09 10.20 | -0.5 |
| | 0.4s | 18.00nm | 4.7mb | |
| HYB | 19.95 158 | eP | 10 11.00 | -0.8 |
| GBA | 23.29 163 | P | 10 46.00 | 0.9 |
| NUR | 37.95 325 | iP | 12 55.30 | 0.3 |
| KJF | 38.05 331 | eP | 12 57.00 | 1.2 |
| SUF | 38.07 328 | iP | 12 56.50 | 0.5 |
| HFS | 43.18 322 | eP | 13 37.30 | -0.8 |
| | 0.4s | 1.30nm | 4.1mb | |
| NB2 | 44.50 323 | P | 13 47.60 | -1.2 |
| | 0.4s | 0.70nm | 3.8mb | |
| MBC | 67.64 3 | eP | 16 34.00 | 0.0 |

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

FEB 20, 1989 03h 25m 35.09±0.49s
 38.932 N ± 5.0km 3.079 W ± 5.0km
 DEPTH = 10.0km (geophysicist)
 SPAIN (377)
 MG 3.8 (MDD). Felt (IV) in the
 Alhambra area.

| | | | | |
|------|----------|------|----------|--------|
| EVIA | 0.54 123 | iPg | 25 46.30 | 0.3 |
| EBAN | 0.95 216 | iPg | 25 53.60 | 0.5 |
| | | eSg | 26 06.00 | |
| TOL | 1.21 322 | iPn | 25 58.00 | 0.4 |
| | | ePg | 25 59.70 | |
| | | eSg | 26 16.00 | |
| AFC | 1.71 192 | ePn | 26 05.00 | -0.3 |
| | | eSn | 26 26.00 | |
| ECHE | 1.76 67 | ePn | 26 07.00 | 1.1 |
| | | eSn | 26 29.50 | |
| GUD | 1.90 334 | ePn | 26 08.70 | 0.7 |
| | | eSn | 26 33.00 | |
| EHOR | 2.03 238 | ePg | 26 13.70 | 3.9X |
| | | eSg | 26 37.80 | |
| ETOR | 2.04 22 | iPnc | 26 11.00 | 1.0 |
| | | eSg | 26 35.40 | |
| ENIJ | 2.07 161 | ePg | 26 17.50 | 7.1X |
| | | eSg | 26 42.40 | |
| ACU | 2.13 101 | iPnd | 26 11.00 | -0.2 |
| | | eSg | 26 37.00 | |
| EPLA | 2.58 297 | iPnd | 26 18.00 | 0.3 |
| | | eSg | 26 48.00 | |
| EPRU | 2.60 222 | ePg | 26 25.00 | 7.1X |
| | | eSg | 26 55.00 | |
| EJIF | 3.12 218 | ePn | 26 35.00 | 9.8X |
| | | eSg | 27 09.20 | |
| EVAL | 3.18 246 | ePn | 26 25.20 | -1.0 |
| | | eSg | 27 02.40 | |
| EROQ | 3.28 54 | ePn | 26 28.00 | 0.4 |
| | | eSg | 27 06.40 | |
| LPO | 6.57 28 | Pn | 27 12.70 | -1.4 |
| LFF | 6.64 24 | Pn | 27 15.30 | 0.2 |
| CAF | 7.11 31 | Pn | 27 19.60 | -2.1 |
| FRF | 8.66 55 | Pn | 26 49.70 | -53.7X |
| | | Pg | 27 08.10 | |
| | | Sg | 28 09.40 | |

S.D. = 1.0 on 14 of 19 obs.

* FEB 20, 1989 04h 44m 15.83±1.56s
 56.478 N ± 18.6km 156.379 W ± 16.7km
 DEPTH = 33.0km (normal)
 ALASKA PENINSULA (12)
 ML 3.5 (PMR).

| | | | | |
|-----|----------|-----|----------|------|
| KDC | 2.47 57 | eP | 44 55.80 | 1.2 |
| SDN | 2.58 246 | ePc | 44 56.10 | -0.1 |
| SVW | 4.66 5 | eP | 45 27.00 | 1.3 |
| TTA | 6.48 1 | eP | 45 51.80 | 0.4 |
| FBA | 9.43 23 | eP | 46 30.60 | -1.7 |
| INK | 15.76 32 | eP | 47 55.50 | -1.1 |

S.D. = 1.6 on 6 of 6 obs.

FEB 20, 1989 05h 03m 55.23±0.56s
 39.062 N ± 4.8km 28.688 E ± 6.0km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

| | | | | |
|-----|----------|-----|----------|------|
| DST | 0.54 355 | iPg | 04 04.80 | -1.5 |
| KHL | 0.99 138 | iPg | 04 13.40 | -0.6 |

| | | | | |
|------|----------|-----|----------|------|
| KCT | 1.21 348 | iPn | 04 18.40 | 0.6 |
| IZM | 1.30 240 | iPn | 04 19.50 | 0.2 |
| BNT | 1.42 336 | iPn | 04 21.40 | 0.3 |
| EDC | 1.43 334 | iPn | 04 20.70 | -0.5 |
| YLV | 1.59 19 | iPn | 04 22.40 | -1.2 |
| GPA | 1.75 45 | ePn | 04 27.00 | 1.1 |
| GBZT | 1.82 18 | ePn | 04 32.20 | 5.4X |
| | | eSg | 04 58.00 | |
| PRK | 1.89 276 | ePn | 04 27.70 | -0.1 |
| | | eSn | 04 58.00 | |
| HRT | 1.91 23 | ePn | 04 27.30 | -0.9 |
| EZN | 1.98 293 | iPn | 04 29.00 | -0.1 |
| ISK | 2.02 8 | ePn | 04 32.00 | 2.3 |
| CTT | 2.09 355 | ePn | 04 30.80 | 0.0 |
| ELL | 2.50 157 | ePn | 04 36.90 | 0.1 |
| DMK | 2.85 346 | ePn | 04 48.00 | 6.5X |
| RDO | 3.19 312 | ePn | 04 46.50 | 0.2 |
| BBTK | 3.25 75 | eP | 04 54.50 | 7.2X |
| | | eS | 05 41.00 | |

S.D. = 1.0 on 15 of 18 obs.

* FEB 20, 1989 05h 13m 56.71±1.30s
 2.569 N ± 18.1km 127.163 E ± 14.0km
 DEPTH = 33.0km (normal)
 4.1mb (1 obs.)
 MOLUCCA PASSAGE (266)

| | | | | |
|------|-----------|--------|----------|------|
| MNI | 2.58 244 | ePc | 14 37.10 | 0.1 |
| | | eS | 15 17.70 | |
| WB5 | 23.40 163 | eP | 19 03.70 | 0.0 |
| WRA | 23.46 163 | Pc | 19 04.70 | 0.4 |
| | 0.4s | 2.70nm | 4.1mb | |
| QIS | 26.02 153 | eP | 19 29.00 | 0.3 |
| ASPA | 26.89 166 | eP | 19 36.00 | -0.7 |
| CHG | 32.00 302 | eP | 20 22.40 | 0.0 |

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

FEB 20, 1989 06h 11m 31.67±0.95s
 4.667 S ± 8.1km 102.788 E ± 9.7km
 DEPTH = 91.8 ± 7.2 km
 4.8mb (10 obs.)
 SOUTHERN SUMATERA (274)

| | | | | |
|------|-----------|---------|----------|-------|
| KSI | 1.05 349 | iPd | 11 50.60 | -1.7 |
| | | iS | 12 57.00 | |
| | | e | 17 00.00 | |
| KLI | 2.07 95 | iP | 12 04.80 | -0.6 |
| | | eS | 12 37.00 | |
| | | e | 13 19.00 | |
| PPI | 4.82 330 | ePd | 12 44.50 | 1.3 |
| | | e(S) | 13 40.00 | |
| KGM | 6.66 5 | eP | 13 09.00 | 0.3 |
| PSI | 8.27 332 | iPc | 13 27.10 | -3.7X |
| IPM | 9.35 349 | ePc | 13 46.30 | 0.7 |
| | 0.9s | 35.90nm | 5.2mb | |
| | | e | 16 38.40 | |
| SNG | 11.96 350 | eP | 14 14.30 | -6.2X |
| TSM | 17.64 60 | eP | 15 35.00 | 2.0 |
| NANU | 21.64 146 | iPc | 16 17.40 | 1.4 |
| BDT | 22.09 350 | eP | 16 19.00 | -1.5 |
| MBL | 23.30 136 | eP | 16 32.00 | -0.2 |
| CHG | 23.64 351 | iPd | 16 56.60 | 21.0X |
| | 1.0s | 14.50nm | | |
| GBA | 31.03 306 | Pc | 17 42.50 | -0.5 |
| | 0.4s | 2.10nm | 4.2mb | |

| | | | | |
|------|-----------|---------|----------|-------|
| WARB | 31.29 136 | eP | 17 36.30 | -8.9X |
| WB5 | 34.26 119 | eP | 18 11.10 | 0.0 |
| WRA | 34.26 119 | Pd | 18 11.10 | 0.0 |
| | 0.3s | 2.90nm | 4.6mb | |
| FORR | 35.30 140 | eP | 18 20.00 | 0.3 |
| ASPA | 35.44 125 | eP | 18 21.20 | 0.0 |
| | 0.4s | 37.00nm | 5.7mb | |
| | | eS | 23 48.70 | |
| DMN | 36.35 333 | P | 18 29.00 | 0.1 |
| KKN | 36.42 333 | P | 18 29.60 | 0.1 |
| GKN | 36.90 333 | P | 18 33.80 | 0.4 |
| XAN | 38.93 8 | P | 18 50.20 | -0.1 |
| QIS | 39.11 117 | eP | 18 51.80 | -0.1 |
| LZH | 40.55 1 | eP | 19 04.50 | 0.8 |
| | 1.5s | 53.00nm | 5.2mb | |

| | | | | |
|-----|-----------|---------|----------|------|
| TIY | 43.11 11 | P | 19 24.60 | 0.1 |
| GTA | 43.94 357 | iPc | 19 31.20 | -0.1 |
| CTA | 44.97 114 | iPd | 19 40.00 | 0.3 |
| | 0.9s | 15.13nm | 4.8mb | |
| HHC | 46.00 9 | P | 19 48.50 | 0.8 |
| BJI | 46.16 14 | eP | 19 49.00 | 0.3 |
| WMO | 50.15 346 | P | 20 20.20 | 0.4 |

| | | | | |
|-----|------------|---------|----------|--------|
| CN2 | 52.39 21 | Pc | 20 35.20 | -1.4 |
| BRS | 52.64 121 | iPc | 20 29.20 | -9.6X |
| | | e | 20 37.20 | |
| MAT | 52.68 36 | eP | 20 37.00 | -1.9 |
| | 0.7s | 8.90nm | 4.9mb | |
| KJF | 87.73 335 | iP | 24 12.30 | 1.2 |
| | 0.8s | 10.30nm | 4.9mb | |
| SUF | 88.03 333 | iP | 24 13.80 | 1.3 |
| | 0.3s | 1.60nm | 4.6mb | |
| SOD | 88.98 338 | eP | 24 09.00 | -8.0X |
| KEV | 89.46 340 | eP | 24 07.00 | -12.2X |
| HFS | 93.56 330 | eP | 24 35.00 | -3.3X |
| | 0.4s | 0.90nm | 4.5mb | |
| YKA | 116.06 18 | PKP | 30 06.00 | 0.8 |
| EDM | 123.27 25 | ePKP | 30 20.00 | 0.7 |
| LRM | 128.83 31 | ePKP | 30 32.20 | 1.6 |
| MEO | 144.09 31 | ePKP | 30 56.90 | -1.9 |
| | 1.0s | 10.10nm | | |
| FKO | 144.30 29 | ePKPc | 30 57.90 | -1.2 |
| | 1.0s | 52.70nm | | |
| SIO | 144.41 27 | ePKP | 30 57.90 | -1.4 |
| LNO | 144.51 26 | iPKPc | 30 58.20 | -1.1 |
| TUL | 144.51 26 | ePKP | 30 58.50 | -0.9 |
| | 0.6s | 31.80nm | | |
| RLO | 144.63 25 | iPKP | 30 59.00 | -0.6 |
| BAO | 144.73 235 | ePKP | 30 42.00 | -18.5X |
| VVO | 145.01 27 | ePKP | 31 00.50 | 0.2 |

S.D. = 1.0 on 40 of 49 obs.

? FEB 20, 1989 06h 36m 19.13±3.77s
 55.065 N ± 45.2km 157.018 W ± 21.3km
 DEPTH = 33.0km (normal)
 ALASKA PENINSULA (12)
 ML 3.4 (PMR).

| | | | | |
|-----|----------|-----|----------|------|
| SDN | 2.01 279 | eP | 36 50.80 | -0.6 |
| KDC | 3.68 41 | iPc | 37 14.40 | -0.6 |
| PMS | 7.34 29 | eP | 38 05.40 | -1.3 |
| TTA | 7.91 3 | eP | 38 15.10 | 0.4 |
| TOA | 9.04 34 | eP | 38 30.20 | -0.1 |
| MBC | 25.42 20 | eP | 41 47.00 | 2.3 |

S.D. = 1.6 on 6 of 6 obs.

FEB 20, 1989 07h 48m 02.18±0.65s
 38.797 N ± 6.2km 142.779 E ± 7.9km
 DEPTH = 10.0km (geophysicist)
 4.7mb (3 obs.)
 NEAR EAST COAST OF HONSHU, JAPAN(228)
 Felt (II JMA) at Ofunato.

| | | | | |
|------|-----------|---------|----------|-------|
| OFU | 0.87 288 | P | 48 17.80 | -1.1 |
| | | S | 48 26.70 | |
| OFUJ | 0.91 288 | iPd | 48 18.30 | -1.3 |
| | | S | 48 28.00 | |
| YAMJ | 2.24 255 | P | 48 38.90 | -1.0 |
| | | S | 49 05.90 | |
| AOMJ | 2.56 314 | eP | 48 43.30 | -1.0 |
| KAKJ | 3.32 219 | P | 48 54.20 | -0.9 |
| NIIJ | 3.36 244 | P | 48 55.50 | -0.3 |
| HOJ | 3.60 6 | P | 48 59.20 | 0.0 |
| | | S | 49 38.40 | |
| MRRJ | 3.85 341 | P | 49 03.70 | 1.0 |
| | | eS | 49 47.40 | |
| CHJJ | 4.07 229 | eP | 49 06.90 | 1.0 |
| MAT | 4.27 240 | eP | 49 09.00 | 0.3 |
| | | eS | 50 01.00 | |
| MTMJ | 4.52 242 | eP | 49 13.70 | 1.4 |
| KUSJ | 4.54 18 | P | 49 10.70 | -1.7 |
| | | eS | 49 59.60 | |
| IIDJ | 5.11 231 | P | 49 22.10 | 1.5 |
| ASAJ | 5.32 359 | eP | 49 25.50 | 2.0 |
| TSRJ | 6.33 241 | eP | 49 39.40 | 1.6 |
| WKYJ | 7.37 234 | eP | 49 52.70 | 0.2 |
| YONJ | 8.28 247 | eP | 50 04.90 | -0.2 |
| TKSJ | 8.52 238 | P | 50 07.60 | -0.9 |
| SSE | 19.27 253 | P | 52 26.00 | -3.6X |
| | 1.0s | 16.00nm | 4.2mb | |
| | | i | 52 32.20 | |

| | | | | |
|-----|-----------|--------|----------|-------|
| CHG | 42.78 255 | eP | 56 00.80 | -0.9 |
| KKN | 48.59 275 | P | 56 46.40 | -1.7 |
| INK | 52.33 28 | eP | 57 16.00 | 0.3 |
| WB5 | 58.90 189 | eP | 58 01.90 | -1.7 |
| WRA | 58.96 189 | Pc | 58 02.10 | -2.0 |
| | 0.7s | 4.70nm | 4.7mb | |
| YKA | 61.74 31 | P | 58 33.30 | 10.6X |
| POO | 62.37 272 | iPc | 58 31.50 | 3.9X |
| GBA | 62.43 265 | Pc | 58 24.60 | -3.3X |

FFC 71.64 34 eP 59 34.00 8.4X
0.9s 9.00nm 4.9mb
LRM 72.14 45 eP 59 39.10 10.1X
FRB 74.81 14 eP 59 53.00 9.1X
ZOBO 144.86 59 ePKP 07 42.00 -0.1
LPB 145.06 59 ePKP 07 50.00 7.7X
CNCB 145.34 59 PKP 07 44.00 1.1
S.D. = 1.2 on 25 of 33 obs.

FEB 20, 1989 08h 06m 41.66±0.70s
26.816 S ± 6.3km 26.714 E ± 6.8km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
MG 3.6 (BUL).

BFS 0.10 142 iPd 06 44.00 0.0
S 06 44.50
PRY 0.69 100 iPc 06 54.50 -0.9
S 07 01.50
KSR 0.96 10 iPd 07 02.20 1.7
S 07 13.00
SWZ 1.29 253 iPd 07 06.50 0.4
S 07 22.00
BPI 1.34 62 iPc 07 07.00 0.0
S 07 22.00
SEK 1.71 152 iPd 07 13.00 0.6
S 07 34.50
SLR 1.77 53 iPd 07 15.00 1.7
S 07 38.00
KIM 2.58 221 iPc 07 24.50 -0.4
S 07 59.90
POF 6.50 245 eP 08 55.00 34.7X
S 09 37.00
BUL 6.87 15 iPn 08 24.30 -1.4
iSn 09 38.70
iSg 10 14.90
LSZ 11.56 7 ePn 09 29.00 -1.6
eS 11 35.00
iSg 12 50.30
S.D. = 1.3 on 10 of 11 obs.

* FEB 20, 1989 09h 20m 11.15±0.66s
4.788 N ±10.4km 98.593 E ±13.7km
DEPTH = 33.0km (normal)
4.4mb (2 obs.)
NORTHERN SUMATERA (706)

PSI 2.10 171 e(P) 20 45.00 0.3
IPM 2.43 95 ePd 20 49.20 -0.3
0.4s 22.10nm
e 22 11.70
e 23 44.50
SNG 3.11 40 eP 20 34.80 -24.2X
e 21 43.50
CHG 13.94 1 iPc 23 29.00 0.2
0.8s 7.46nm 4.5mb X
VRI 73.98 316 ePd 31 44.00 -1.3
KJF 77.44 335 eP 32 04.00 -0.5
SUF 77.75 333 iP 32 06.50 0.2
SOD 78.71 338 eP 32 13.00 1.6
HFS 83.33 330 eP 32 34.80 -1.1
0.5s 1.20nm 4.3mb
NB2 84.57 331 P 32 43.20 0.9
0.9s 3.50nm 4.5mb
S.D. = 1.1 on 9 of 10 obs.

% FEB 20, 1989 10h 02m 16.22±0.83s
41.168 N ± 7.9km 28.859 E ± 5.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ISK 0.18 124 ePg 02 20.80 0.5
eSg 02 24.20
CTT 0.32 267 iPg 02 22.70 -0.3
HRT 0.70 119 ePg 02 29.20 -0.9
YLV 0.72 147 iPg 02 30.80 0.4
KCT 0.99 203 iPn 02 35.30 0.2
DMK 1.05 309 iPn 02 36.40 0.3
BNT 1.08 222 iPn 02 36.70 0.2
EDC 1.12 223 iPn 02 36.70 -0.4
S.D. = 0.6 on 8 of 8 obs.

FEB 20, 1989 11h 16m 40.09±0.45s
31.228 N ± 7.4km 97.959 E ± 5.5km
DEPTH = 33.0km (normal)
4.5mb (6 obs.) 4.2Msz (1 obs.)
TIBET (306)

CD2 4.99 92 ePn 17 56.50 1.8
Pg 18 07.00
Sg 19 14.00
LSA 6.07 257 P 18 13.00 2.6
LZH 6.90 44 eP 18 22.50 0.9
1.5s 44.00nm 5.1mb X
Z 15s 1.00um

KMI 7.40 144 eP 18 33.00 4.3X
eS 19 49.00
GTA 8.30 10 eP 18 46.20 4.9X
Z 12s 1.60um
GYA 8.99 120 P 18 50.00 -0.7
N 10s 6.10um
E 10s 4.80um

XAN 9.66 70 eP 18 59.90 0.0
N 11s 1.42um
KKN 11.56 256 P 19 23.90 -2.2
0.8s 24.00nm 5.4mb
DMN 11.77 255 P 19 28.20 -0.7
0.8s 56.00nm 5.8mb X
GKN 12.03 258 P 19 30.00 -2.3
CHG 12.39 176 eP 19 39.00 1.9
BTO 13.51 43 eP 19 52.00 0.1

N 12s 1.60um
E 12s 1.80um
TIY 13.57 58 eP 19 50.00 -2.7
E 11s 0.80um
HHC 14.59 45 eP 20 04.80 -1.2
Z 14s 0.80um
N 11s 0.40um
WMO 14.96 330 eP 20 10.50 -0.3
Z 16s 0.90um
OIZ 16.21 136 eP 20 26.00 -1.0
N 15s 1.10um
TIA 16.70 68 eP 20 38.30 5.2X
BJI 17.20 54 eP 20 39.50 0.2
Z 16s 0.59um
E 10s 0.63um

KSH 19.69 301 eP 21 14.00 4.5X
HYB 22.35 237 eP 21 38.00 1.3
CN2 25.03 52 Pd 22 03.40 0.9
Z 14s 0.60um 4.3Msz X
N 10s 0.50um

GBA 25.76 232 P 22 09.40 21kmX
0.2s 1.50nm 4.2mb
KJF 53.80 329 eP 26 02.00 0.7
SOD 54.42 333 eP 26 07.00 1.1
SUF 54.47 327 iP 26 06.70 0.4
0.5s 2.50nm 4.5mb
NUR 55.25 325 eP 26 12.00 0.0
Z 18s 0.20um 4.2Msz

MLR 56.45 307 eP 26 12.00 -9.0X
e 54 15.00
TBY 61.13 325 eP 26 52.30 -0.8
0.5s 2.40nm 4.6mb
WB5 61.67 141 eP 26 56.50 -0.8
NB2 61.68 326 P 26 56.20 -0.8
0.7s 2.20nm 4.4mb

WRA 61.71 141 Pc 26 56.30 -1.3
0.7s 3.10nm 4.5mb
PTJ 63.10 309 eP 27 07.10 0.5
INK 73.71 18 eP 28 12.00 0.0
YKA 83.01 15 P 29 05.40 2.4
MEO 112.52 15 ePd 31 32.80 13.7X
1.1s 5.80nm

S.D. = 1.4 on 28 of 35 obs.

FEB 20, 1989 11h 55m 50.24±0.82s
43.416 N ± 5.4km 5.421 E ± 6.3km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
MD 2.7 (STR).

GELF 0.03 172 Pg 55 52.20 -0.1
TREF 0.21 353 Pg 55 54.45 -0.4
PRAF 0.43 335 Pg 55 59.21 0.2
VILF 0.49 26 Pg 55 59.32 -0.8
TAVF 0.50 66 Pg 55 59.61 -0.9
GANF 0.68 31 Pg 56 04.39 0.6
CALN 1.12 72 P 56 11.55 0.2
MVIF 1.35 68 Pn 56 15.12 0.0
Sg 56 34.32
TOUF 1.45 65 Pn 56 17.05 0.3

Sg 56 36.25
AURF 1.46 71 Pn 56 18.05 1.3
AUTN 1.57 68 Pn 56 18.98 0.6
Sg 56 39.65
SAOF 1.65 69 Pn 56 19.05 -0.3
CVF 2.67 107 Pn 56 33.24 -0.8
S.D. = 0.7 on 13 of 13 obs.

& FEB 20, 1989 11h 59m 18.00s
35.324 N 96.464 W
DEPTH = 5.0km (geophysicist)
OKLAHOMA (499)
<TUL>. MD 2.1 (TUL).

SIO 0.44 17 iPg 59 26.50 -0.3
eSg 59 32.20
FKO 0.76 266 iPg 59 31.90 -1.3
eSg 59 42.10
TUL 0.80 43 iPg 59 33.00 -1.0
iSg 59 43.80
LNO 0.80 43 iPg 59 21.70 -12.3
iSg 59 43.20
PCO 1.43 343 iPg 59 43.00 -1.6
eSg 00 02.40
RLO 1.44 54 iPg 59 43.60 -1.2
MEO 1.82 253 ePn 59 49.50 -0.8
Pg- 59 52.80
eSn 00 14.00
7 obs. associated

* FEB 20, 1989 13h 34m 40.42±1.20s
17.674 S ±22.3km 177.478 W ±18.3km
DEPTH = 408.5 ± 8.3 km
4.7mb (9 obs.)
FIJI ISLANDS REGION (181)

VUN 3.88 264 iPd 35 53.00 0.6
SVA 3.89 263 iPd 35 51.70 -0.8
DZM 15.74 251 iPc 38 04.00 1.5
BRS 29.06 245 iPd 40 07.50 0.2
CTA 34.36 260 iPc 40 52.70 0.1
1.0s 30.00nm 4.6mb
CAN 34.55 233 eP 40 54.10 0.0
BWA 34.68 235 eP 40 50.90 -4.3X
TAU 39.01 222 eP 41 31.00 0.2
WB5 45.53 259 eP 42 22.70 -0.6
WRA 45.54 259 Pc 42 22.50 -1.0
0.7s 6.80nm 4.1mb
ASPA 45.71 254 iPc 42 24.80 0.1
0.7s 101.00nm 5.3mb
eS 48 38.40
FORR 50.87 244 iPc 43 03.80 0.1
0.4s 50.00nm 5.2mb
WARB 52.20 250 iPc 43 04.90 -8.7X
COOL 56.85 244 iPc 43 45.90 -0.8
0.4s 9.00nm 4.5mb
MBL 58.90 256 iPc 44 00.80 0.1
0.3s 14.00nm 4.9mb
MEKA 59.42 249 eP 44 04.00 -0.2
KLB 59.72 243 iPc 44 05.70 -0.5
0.7s 15.00nm 4.5mb
NWA0 60.10 242 eP 44 09.00 0.3
BAL 60.68 244 eP 44 12.00 -0.6
NANU 62.64 253 iPd 44 26.70 1.2
0.4s 17.00nm 5.0mb
PNT 84.05 34 eP 46 27.00 -0.3
0.8s 6.00nm 4.4mb
LRM 86.23 39 eP 46 38.40 0.0
YKA 93.75 24 P 47 13.10 0.5
CLL 145.42 348 ePKP 53 32.00 0.3
KHC 147.37 346 ePKP 53 40.50 5.5X
S.D. = 0.7 on 22 of 25 obs.

& FEB 20, 1989 13h 44m 53.37s
62.131 N 152.220 W
DEPTH = 115.3km
CENTRAL ALASKA (1)
<AGS-P>.

CGLM 0.83 173 iP 45 12.92 -0.9
eS 45 28.29
CRP 0.87 178 iP 45 13.59 -0.6
eS 45 29.11
SPU 0.96 175 iP 45 13.95 -1.0
eS 45 30.56
PWA 1.21 112 eP 45 17.06 -0.4
eS 45 35.25

20d 13h

| | | | | | | |
|------|------|-----|----|----|-------|------|
| PMS | 1.55 | 124 | eP | 45 | 20.62 | -0.9 |
| PLRM | 1.56 | 109 | eP | 45 | 19.89 | -1.7 |
| RDT | 1.57 | 183 | eP | 45 | 21.74 | 0.0 |
| PME | 1.59 | 107 | eP | 45 | 20.64 | -1.3 |
| GHO | 1.60 | 102 | eP | 45 | 21.00 | -1.2 |
| | | | eS | 45 | 42.47 | |
| SML | 1.86 | 98 | iP | 45 | 23.94 | -1.5 |
| SLKM | 1.89 | 148 | eP | 45 | 25.69 | -0.1 |
| | | | eS | 45 | 49.58 | |
| SVW | 1.92 | 239 | eP | 45 | 25.15 | -1.0 |
| KNK | 1.93 | 110 | iP | 45 | 24.48 | -1.7 |
| | | | eS | 45 | 49.13 | |
| PTE | 1.99 | 128 | eP | 45 | 25.40 | -1.5 |
| ILIM | 2.09 | 190 | eP | 45 | 27.97 | -0.3 |
| SEW | 2.44 | 145 | eP | 45 | 31.76 | -0.9 |
| GLI | 2.76 | 115 | eP | 45 | 33.92 | -3.1 |
| | | | eS | 46 | 06.50 | |
| KNIM | 2.81 | 128 | iP | 45 | 34.31 | -3.4 |
| VZW | 2.91 | 109 | eP | 45 | 36.84 | -2.3 |
| WRH | 3.00 | 37 | eP | 45 | 38.25 | -1.9 |
| KLU | 3.06 | 99 | eP | 45 | 38.94 | -2.1 |
| FID | 3.09 | 114 | eP | 45 | 38.26 | -3.1 |
| | | | eS | 46 | 15.09 | |

22 obs. associated

FEB 20, 1989 13h 45m 12.45± 0.57s
 41.070 N ± 6.1km 28.529 E ± 4.9km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

| | | | | | | |
|-----|------|-----|-----|----|-------|------|
| CTT | 0.11 | 316 | ePg | 45 | 14.70 | -0.6 |
| ISK | 0.40 | 91 | ePg | 45 | 20.60 | 0.0 |
| YLV | 0.81 | 128 | iPg | 45 | 28.20 | -0.1 |
| KCT | 0.83 | 189 | iPg | 45 | 28.10 | -0.4 |
| BNT | 0.85 | 213 | iPg | 45 | 28.70 | -0.2 |
| | | | iSg | 45 | 42.50 | |
| HRT | 0.90 | 106 | ePn | 45 | 30.10 | 0.4 |
| DMK | 0.95 | 323 | iPn | 45 | 30.30 | -0.2 |
| OHF | 5.84 | 273 | iPg | 46 | 42.30 | 1.1 |
| | | | iSg | 46 | 46.80 | |

S.D. = 0.6 on 8 of 8 obs.

? FEB 20, 1989 14h 14m 38.27± 6.24s
 58.197 N ± 48.3km 6.408 E ± 17.2km
 DEPTH = 10.0km (geophysicist)

SOUTHERN NORWAY (535)

MD 2.5 (BER).

| | | | | | | |
|------|------|-----|-----|----|-------|------|
| KMY | 1.18 | 330 | eP | 15 | 00.14 | -0.2 |
| | | | eS | 15 | 15.17 | |
| | | | iSg | 15 | 17.68 | |
| BLS1 | 1.22 | 10 | iP | 15 | 00.74 | -0.3 |
| | | | iS | 15 | 15.45 | |
| ODD1 | 1.72 | 4 | iP | 15 | 09.35 | 0.8 |
| | | | iS | 15 | 30.72 | |
| HYA | 2.98 | 358 | iP | 15 | 26.18 | -0.2 |
| | | | eS | 15 | 59.74 | |
| | | | iSg | 16 | 08.47 | |
| NRA0 | 3.65 | 44 | iPd | 15 | 35.80 | -0.2 |
| | | | iS | 16 | 18.30 | |
| | | | eSg | 16 | 32.20 | |

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

& FEB 20, 1989 15h 29m 19.73s
 60.148 N 152.821 W
 DEPTH = 108.3km

SOUTHERN ALASKA (2)

<AGS-P>.

| | | | | | | |
|------|------|-----|----|----|-------|------|
| ILIM | 0.10 | 226 | eP | 29 | 34.62 | 1.2 |
| | | | eS | 29 | 46.36 | |
| RDT | 0.47 | 26 | eP | 29 | 35.78 | -0.8 |
| | | | eS | 29 | 48.46 | |
| NNL | 0.77 | 97 | eP | 29 | 39.03 | 0.2 |
| | | | eS | 29 | 52.75 | |
| PDB | 0.78 | 243 | eP | 29 | 38.24 | -0.6 |
| | | | eS | 29 | 52.56 | |
| NKA | 0.99 | 52 | eP | 29 | 42.09 | 1.2 |
| CNPM | 1.02 | 127 | eP | 29 | 41.04 | -0.2 |
| | | | eS | 29 | 57.23 | |
| SPU | 1.10 | 20 | eP | 29 | 41.52 | -0.7 |
| CRP | 1.17 | 16 | eP | 29 | 42.73 | -0.4 |
| CGLM | 1.23 | 19 | iP | 29 | 43.13 | -0.6 |
| SLKM | 1.34 | 73 | eP | 29 | 43.96 | -1.0 |
| | | | eS | 30 | 02.85 | |
| SVW | 1.68 | 306 | iP | 29 | 47.60 | -1.5 |
| SEW | 1.69 | 90 | iP | 29 | 47.63 | -1.5 |

| | | | | | | |
|------|------|----|----|----|-------|------|
| PMS | 1.94 | 54 | eP | 29 | 51.29 | -1.2 |
| | | | eS | 30 | 15.54 | |
| GHO | 2.50 | 48 | eP | 29 | 57.96 | -1.9 |
| KNIM | 2.54 | 83 | iP | 29 | 57.21 | -3.1 |
| | | | eS | 30 | 27.20 | |
| MTU | 2.60 | 91 | eP | 29 | 59.33 | -1.7 |
| | | | eS | 30 | 30.72 | |
| FID | 3.20 | 76 | eP | 30 | 07.02 | -2.1 |

17 obs. associated

FEB 20, 1989 15h 57m 31.12± 1.42s

3.215 S ± 7.2km 130.169 E ± 8.4km

DEPTH = 55.0 ± 14.9 km

4.7mb (8 obs.)

CERAM (272)

| | | | | | | |
|------|--------|-----|----------|----|-------|-------|
| AAI | 2.03 | 257 | iPd | 58 | 04.50 | 1.1 |
| | | | iS | 58 | 51.00 | |
| MTN | 9.62 | 174 | eP | 59 | 49.00 | -0.6 |
| | | | eS | 01 | 37.00 | |
| JAY | 10.55 | 86 | ePd | 00 | 03.00 | 0.7 |
| KNA | 12.53 | 186 | eP | 00 | 27.30 | -1.7 |
| | | | eS | 02 | 45.00 | |
| WB5 | 17.06 | 166 | eP | 01 | 26.60 | -0.9 |
| | | | eS | 04 | 29.00 | |
| WRA | 17.12 | 167 | Pd | 01 | 28.40 | 0.2 |
| | 0.4s | | 5.80nm | | 4.1mb | |
| QIS | 19.54 | 153 | iPc | 01 | 58.00 | 0.8 |
| | 0.4s | | 12.00nm | | 4.5mb | |
| | | | e | 02 | 03.00 | |
| | | | eS | 06 | 23.00 | |
| MBL | 20.48 | 209 | eP | 02 | 06.00 | -1.0 |
| ASPA | 20.65 | 170 | iPc | 02 | 09.90 | 1.1 |
| | 0.5s | | 150.00nm | | 5.6mb | |
| | | | eS | 05 | 56.40 | |
| CTA | 22.97 | 138 | iPd | 02 | 35.30 | 3.5X |
| | 1.0s | | 17.00nm | | 4.4mb | |
| WARB | 23.09 | 188 | eP | 02 | 26.40 | -6.6X |
| NANU | 23.90 | 215 | eP | 02 | 42.00 | 1.1 |
| MEKA | 25.80 | 205 | eP | 02 | 59.00 | 0.1 |
| FORR | 27.56 | 184 | iPd | 03 | 15.20 | 0.3 |
| | 0.5s | | 17.00nm | | 4.9mb | |
| PPI | 29.88 | 275 | eP | 03 | 36.50 | 0.5 |
| PSI | 31.78 | 280 | ePd | 03 | 51.60 | -1.1 |
| BRS | 32.32 | 140 | iPc | 04 | 04.70 | 7.4X |
| | | | e | 05 | 12.70 | |
| CHG | 37.73 | 307 | eP | 04 | 45.70 | 2.1 |
| TIY | 43.92 | 340 | eP | 05 | 34.50 | 0.1 |
| BJI | 44.92 | 345 | eP | 05 | 41.00 | -1.2 |
| GTA | 50.78 | 330 | P | 06 | 27.00 | -1.1 |
| KKN | 53.07 | 309 | P | 06 | 45.50 | -0.1 |
| | 0.8s | | 7.00nm | | 4.7mb | |
| DMN | 53.12 | 308 | P | 06 | 45.80 | -0.2 |
| GKN | 53.67 | 308 | P | 06 | 49.80 | -0.1 |
| | 0.8s | | 11.00nm | | 4.9mb | |
| GBA | 54.91 | 289 | Pc | 06 | 57.30 | -1.7 |
| | 0.8s | | 3.30nm | | 4.4mb | |
| AVY | 81.82 | 251 | iPd | 09 | 48.00 | 1.6 |
| CNCB | 153.22 | 139 | PKP | 17 | 30.00 | 11.8X |
| LPB | 153.34 | 138 | ePKP | 17 | 32.00 | 13.8X |
| ZOBO | 153.51 | 137 | PKP | 17 | 30.00 | 11.3X |

S.D. = 1.1 on 23 of 29 obs.

* FEB 20, 1989 16h 37m 31.18± 1.23s
 29.220 N ± 16.7km 67.659 E ± 12.9km

DEPTH = 33.0km (normal)

4.4mb (4 obs.)

PAKISTAN (710)

| | | | | | | |
|------|-------|-----|---------|----|---------|------|
| QUE | 1.15 | 328 | iP+ | 37 | 49.00 | -2.1 |
| | | | eS | 38 | 00.00 | |
| NDI | 8.39 | 91 | ePc | 39 | 34.50 | 1.1 |
| | 0.6s | | 33.33nm | | 5.6mb X | |
| KHI | 9.12 | 305 | e(P) | 39 | 52.00 | 8.4X |
| MAIO | 9.85 | 318 | eP | 39 | 57.00 | 3.3X |
| | | | eS | 41 | 48.00 | |
| KSH | 12.30 | 32 | eP | 40 | 27.00 | 0.0 |
| | | | eS | 42 | 42.00 | |
| GKN | 14.96 | 91 | P | 41 | 00.20 | -2.0 |
| | 0.6s | | 27.00nm | | 4.7mb | |
| HYB | 15.42 | 137 | eP | 41 | 08.50 | 0.5 |
| DMN | 15.44 | 92 | P | 41 | 08.10 | -0.3 |
| | 0.4s | | 12.00nm | | 4.5mb | |
| KKN | 15.56 | 91 | P | 41 | 08.50 | -1.5 |
| | 0.6s | | 13.00nm | | 4.3mb | |
| GBA | 17.99 | 148 | P | 41 | 46.00 | 5.6X |

| | | | | | | |
|-----|-------|-----|--------|----|---------|-------|
| LSA | 20.46 | 83 | P | 42 | 12.70 | 3.6X |
| WMQ | 21.64 | 42 | P | 42 | 22.60 | 2.0 |
| Z | 12s | | 0.40um | | 4.0mszX | |
| GTA | 28.31 | 60 | eP | 43 | 26.80 | 2.9X |
| CHG | 30.31 | 103 | eP | 43 | 58.00 | 16.1X |
| SUF | 42.89 | 333 | iP | 45 | 28.30 | 0.5 |
| KJF | 43.12 | 336 | eP | 45 | 21.00 | -8.7X |
| SOD | 45.33 | 339 | eP | 45 | 49.00 | 1.5 |
| HFS | 47.33 | 327 | eP | 46 | 02.30 | -1.0 |
| | 0.4s | | 0.90nm | | 4.1mb | |
| MBC | 74.70 | 2 | eP | 49 | 10.00 | 1.3 |

S.D. = 1.5 on 12 of 19 obs.

& FEB 20, 1989 16h 49m 19.85s

59.288 N 153.506 W

DEPTH = 91.0km

SOUTHERN ALASKA (2)

<AGS-P>.

| | | | | | | |
|------|------|-----|----|----|-------|------|
| CDD | 0.37 | 191 | eP | 49 | 33.84 | -0.2 |
| ILIM | 0.84 | 19 | iP | 49 | 37.59 | -0.6 |
| | | | eS | 49 | 51.82 | |
| CNPM | 1.19 | 77 | eP | 49 | 42.04 | -0.1 |
| | | | eS | 49 | 58.70 | |
| RED | 1.19 | 18 | iP | 49 | 41.33 | -1.0 |
| NNL | 1.35 | 55 | eP | 49 | 44.45 | 0.3 |
| RDT | 1.40 | 23 | eP | 49 | 43.96 | -0.9 |
| | | | eS | 50 | 03.01 | |
| KDC | 1.63 | 161 | eP | 49 | 46.49 | -1.2 |
| | | | eS | 50 | 08.08 | |
| SPU | 2.03 | 20 | eP | 49 | 51.76 | -1.4 |
| SLKM | 2.06 | 52 | eP | 49 | 52.55 | -0.9 |
| | | | eS | 50 | 18.09 | |
| SVW | 2.11 | 331 | eP | 49 | 52.25 | -1.9 |
| CGLM | 2.16 | 20 | eP | 49 | 53.61 | -1.2 |
| SEW | 2.21 | 67 | eP | 49 | 54.36 | -1.1 |
| | | | eS | 50 | 19.21 | |
| PTE | 2.75 | 53 | eP | 50 | 00.76 | -1.9 |
| | | | eS | 50 | 33.08 | |
| PMS | 2.78 | 43 | eP | 50 | 01.85 | -1.4 |
| PWL | 3.03 | 56 | eP | 50 | 04.16 | -2.5 |
| MTU | 3.05 | 74 | eP | 50 | 05.44 | -1.5 |
| | | | eS | 50 | 39.56 | |
| KNIM | 3.10 | 67 | eP | 50 | 04.78 | -2.8 |
| KNK | 3.29 | 47 | eP | 50 | 07.99 | -2.3 |
| GHO | 3.37 | 40 | eP | 50 | 09.32 | -2.0 |
| | | | eS | 50 | 46.54 | |
| SML | 3.59 | 43 | eP | 50 | 12.01 | -2.4 |
| FID | 3.82 | 64 | eP | 50 | 14.96 | -2.6 |

21 obs. associated

% FEB 20, 1989 17h 28m 27.68± 3.10s
 47.407 N ± 13.6km 1.107 W ± 40.2km

DEPTH = 10.0km (geophysicist)

FRANCE (538)

ML 2.8 (LDG).

| | | | | | | |
|-----|------|-----|----|----|-------|-------|
| LPF | 0.63 | 4 | Pg | 28 | 39.90 | -0.4 |
| | | | Sg | 28 | 51.30 | |
| GRR | 1.00 | 10 | Pg | 28 | 46.20 | -0.3 |
| | | | Sg | 29 | 02.80 | |
| MFF | 1.04 | 140 | Pg | 28 | 40.50 | -6.8X |
| | | | Sg | 28 | 53.10 | |
| LDF | 1.36 | 29 | Pg | 28 | 52.60 | 0.0 |
| | | | Sg | 29 | 14.60 | |
| FLN | 1.42 | 17 | Pg | 28 | 54.20 | 0.7 |
| | | | Sg | 29 | 16.30 | |
| LSF | 2.15 | 122 | Pg | 29 | 02.50 | -1.5 |
| | | | Sg | 29 | 29.10 | |

20d 20h

* FEB 20, 1989 20h 00m 47.38±0.85s
27.867 N ±11.6km 130.912 E ±15.1km
DEPTH = 33.0km (normol)
4.2mb (3 obs.)

RYUKYU ISLANDS (238)

| | | | | | | |
|------|------------------------|--------|----|-------|-------|------|
| BJI | 17.20 | 319 | eP | 04 | 47.00 | 0.4 |
| TIY | 18.35 | 307 | eP | 05 | 01.90 | 0.9 |
| E | 13s | 0.60um | | | | |
| XAN | 19.82 | 294 | Pc | 05 | 16.40 | -1.8 |
| HHC | 20.51 | 314 | eP | 05 | 25.00 | -0.4 |
| BTO | 21.38 | 312 | eP | 05 | 34.00 | -0.2 |
| GYA | 21.62 | 272 | P | 05 | 34.60 | -2.2 |
| CD2 | 23.83 | 284 | eP | 05 | 59.40 | 1.0 |
| GTA | 28.20 | 302 | eP | 06 | 40.00 | 0.8 |
| CHG | 30.63 | 260 | eP | 07 | 02.20 | 1.3 |
| KKN | 40.17 | 281 | P | 08 | 22.90 | 0.4 |
| DMN | 40.36 | 281 | P | 08 | 24.40 | 0.3 |
| GKN | 40.69 | 281 | P | 08 | 26.40 | -0.3 |
| | 0.6s | 9.00nm | | 4.7mb | | |
| WB5 | 47.58 | 176 | eP | 09 | 22.80 | 0.8 |
| WRA | 47.64 | 176 | Pd | 09 | 21.50 | -1.0 |
| | 0.9s | 1.80nm | | 4.1mb | | |
| ASPA | 51.31 | 176 | eP | 09 | 50.90 | 0.3 |
| MBC | 67.67 | 14 | eP | 11 | 47.00 | 4.1X |
| YKA | 76.03 | 26 | P | 12 | 38.00 | 6.0X |
| HFS | 78.47 | 333 | eP | 12 | 47.30 | 1.0 |
| | 0.4s | 0.50nm | | 3.9mb | | |
| FRB | 87.41 | 9 | eP | 13 | 31.00 | -1.2 |
| S.D. | = 1.1 on 17 of 19 obs. | | | | | |

FEB 20, 1989 20h 01m 52.18±0.60s
37.077 N ± 6.0km 27.938 E ± 6.9km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

| | | | | | | |
|------|------------------------|-----|-----|----|-------|------|
| Izm | 1.42 | 338 | iPn | 02 | 17.80 | -0.3 |
| ELL | 1.61 | 101 | iPn | 02 | 20.90 | 0.0 |
| KSL | 1.63 | 125 | ePn | 02 | 21.20 | 0.2 |
| KAP | 1.64 | 202 | ePn | 02 | 20.20 | -1.0 |
| | | | eSn | 02 | 42.20 | |
| KHL | 1.77 | 45 | iPn | 02 | 22.80 | -0.3 |
| BCK | 2.15 | 79 | ePn | 02 | 29.30 | 0.7 |
| PRK | 2.53 | 329 | ePn | 02 | 35.50 | 1.5 |
| DST | 2.58 | 12 | ePn | 02 | 35.00 | 0.2 |
| NPS | 2.61 | 227 | ePn | 02 | 35.70 | 0.5 |
| BNT | 3.27 | 360 | iPn | 02 | 42.90 | -1.7 |
| S.D. | = 1.0 on 10 of 10 obs. | | | | | |

FEB 20, 1989 20h 14m 14.06±0.68s
31.429 S ± 6.6km 68.653 W ± 5.9km
DEPTH = 10.0km (geophysicist)

SAN JUAN PROVINCE, ARGENTINA (137)
Felt (III) at San Juan.

| | | | | | | |
|------|------------------------|-----|-----|----|-------|------|
| ZON | 0.12 | 191 | iPc | 14 | 16.50 | -0.6 |
| RTCB | 0.14 | 245 | iPc | 14 | 17.00 | -0.4 |
| RTLL | 0.19 | 58 | iPc | 14 | 19.00 | 0.8 |
| CFA | 0.40 | 117 | iPd | 14 | 22.10 | -0.1 |
| RTCV | 0.44 | 167 | iPc | 14 | 22.00 | -1.1 |
| RTRS | 1.43 | 331 | ePd | 14 | 39.10 | -1.0 |
| | | | S | 14 | 58.50 | |
| JACH | 2.07 | 232 | iPc | 14 | 49.00 | -0.3 |
| | | | iS | 15 | 15.50 | |
| FCH | 2.35 | 216 | iP | 14 | 55.50 | 1.9 |
| | | | iS | 15 | 24.00 | |
| PEL | 2.43 | 225 | iP | 14 | 55.00 | 0.6 |
| | | | iS | 15 | 26.60 | |
| TACH | 2.94 | 220 | eP | 15 | 02.50 | 0.8 |
| | | | iS | 15 | 40.00 | |
| LNV | 3.43 | 222 | eP | 15 | 08.00 | -0.6 |
| S.D. | = 1.0 on 11 of 11 obs. | | | | | |

FEB 20, 1989 20h 52m 25.32±0.33s
43.230 N ± 5.0km 5.005 W ± 4.3km
DEPTH = 10.0km (geophysicist)

SPAIN (377)

ML 3.9 (LDG). MG 3.9 (MDD). Felt (IV) in the Picos de Europa area.

| | | | | | | |
|------|------|-----|------|----|-------|------|
| EMON | 1.71 | 278 | ePn | 52 | 56.50 | 1.2 |
| | | | eSn | 53 | 19.00 | |
| ERUA | 1.78 | 243 | iPnc | 52 | 57.00 | 0.6 |
| | | | eSn | 53 | 20.00 | |
| ECRI | 1.93 | 108 | ePg | 53 | 07.30 | 0.7X |
| | | | eSg | 53 | 31.50 | |

| | | | | | | |
|------|------|-----|------|----|-------|-------|
| STS | 2.62 | 264 | iPn | 53 | 08.60 | 0.2 |
| | | | eSn | 53 | 40.70 | |
| GUD | 2.66 | 166 | iPnd | 53 | 09.00 | -0.2 |
| | | | eSn | 53 | 40.40 | |
| EZAM | 2.93 | 250 | ePn | 53 | 12.30 | -0.5 |
| ETOR | 3.26 | 137 | ePg | 53 | 28.70 | 11.1X |
| | | | eSg | 54 | 07.60 | |

| | | | | | | |
|------|------|-----|------|----|-------|------|
| EPLA | 3.26 | 195 | ePn | 53 | 17.00 | -0.6 |
| | | | eSn | 53 | 55.30 | |
| PTO | 3.39 | 233 | iPnd | 53 | 19.30 | 0.0 |
| | | | iP* | 53 | 31.00 | |
| | | | iSn | 54 | 04.00 | |
| | | | iS* | 54 | 11.50 | |

| | | | | | | |
|-----|------|-----|-------|----|-------|------|
| TOL | 3.42 | 168 | ePn | 53 | 19.00 | -0.8 |
| | | | e(Pg) | 53 | 31.00 | |
| | | | iSg | 54 | 14.00 | |
| EPF | 3.92 | 91 | Pn | 53 | 31.40 | 4.5X |
| | | | Sn | 54 | 12.30 | |

| | | | | | | |
|-----|------|----|----|----|-------|-----|
| LFF | 4.48 | 66 | Pn | 53 | 37.30 | 2.6 |
| | | | Sn | 54 | 24.00 | |
| LPO | 4.70 | 70 | Pn | 53 | 39.30 | 1.3 |
| | | | Sg | 54 | 30.80 | |
| MFF | 4.82 | 44 | Pn | 53 | 39.80 | 0.1 |
| | | | Sg | 54 | 31.80 | |

| | | | | | | |
|-----|------|----|----|----|-------|------|
| RJF | 5.12 | 64 | Pn | 53 | 44.50 | 0.6 |
| | | | Sg | 54 | 39.20 | |
| CAF | 5.37 | 69 | Pn | 53 | 47.70 | 0.3 |
| | | | Sg | 54 | 44.90 | |
| LPF | 5.55 | 29 | Pn | 53 | 49.70 | -0.2 |
| | | | Sg | 54 | 47.80 | |

| | | | | | | |
|-----|------|----|----|----|-------|------|
| LSF | 5.55 | 55 | Pn | 53 | 49.60 | -0.3 |
| | | | Sg | 54 | 48.20 | |
| GRR | 5.92 | 28 | Pn | 53 | 54.60 | -0.4 |
| | | | Sn | 54 | 56.20 | |
| TCF | 5.98 | 57 | Pn | 53 | 55.80 | -0.2 |
| | | | Sn | 54 | 58.40 | |

| | | | | | | |
|-----|------|----|----|----|-------|------|
| MAF | 6.17 | 58 | Pn | 53 | 58.20 | -0.4 |
| | | | Sn | 55 | 03.20 | |
| LDF | 6.35 | 31 | Pn | 54 | 00.50 | -0.7 |
| | | | Sn | 55 | 06.90 | |
| FLN | 6.37 | 28 | Pn | 54 | 00.70 | -0.7 |
| | | | Sn | 55 | 07.20 | |

| | | | | | | |
|-----|------|----|----|----|-------|------|
| BGF | 6.49 | 56 | Pn | 54 | 03.10 | -0.2 |
| | | | Sn | 55 | 09.80 | |
| AVF | 6.91 | 56 | Pn | 54 | 08.60 | -0.5 |
| | | | Sn | 55 | 20.60 | |
| SSF | 7.13 | 55 | Pn | 54 | 11.90 | -0.3 |
| | | | Sn | 55 | 25.80 | |

| | | | | | | |
|-----|------|----|----|----|-------|------|
| SMF | 7.14 | 58 | Pn | 54 | 12.20 | -0.2 |
| | | | Sn | 55 | 25.60 | |
| LBF | 7.38 | 56 | Pn | 54 | 15.40 | -0.3 |
| | | | Sn | 55 | 31.40 | |
| LOR | 7.44 | 54 | Pn | 54 | 17.70 | 1.1 |
| | | | Sn | 55 | 32.40 | |

| | | | | | | |
|------|------------------------|----|----|----|-------|------|
| DOU | 9.52 | 41 | P | 54 | 43.90 | -1.4 |
| | | | i | 54 | 49.30 | |
| | | | S | 56 | 22.40 | |
| WLF | 10.03 | 46 | iP | 54 | 55.50 | 3.1X |
| S.D. | = 0.8 on 27 of 31 obs. | | | | | |

? FEB 20, 1989 23h 34m 58.29±1.16s
39.181 N ±20.1km 28.766 E ±36.8km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

| | | | | | | |
|------|----------------------|-----|-----|----|-------|------|
| DST | 0.44 | 346 | ePg | 35 | 06.70 | -0.5 |
| KHL | 1.04 | 145 | ePn | 35 | 18.00 | 0.0 |
| KCT | 1.11 | 344 | iPn | 35 | 19.80 | 0.6 |
| BNT | 1.34 | 331 | iPn | 35 | 23.30 | 0.3 |
| EDC | 1.36 | 329 | ePn | 35 | 22.80 | -0.4 |
| Izm | 1.41 | 237 | iPn | 35 | 31.40 | 7.3X |
| YLV | 1.46 | 18 | iPn | 35 | 25.80 | 1.0X |
| S.D. | = 0.7 on 5 of 7 obs. | | | | | |

* FEB 21, 1989 00h 03m 41.66±1.35s
34.660 N ±14.3km 26.036 E ±9.4km
DEPTH = 10.0km (geophysicist)

CRETE (370)

| | | | | | | |
|---------------|------|-----|-----|----|-------|------|
| MD 4.0 (ATH). | | | | | | |
| NPS | 0.69 | 330 | iPg | 03 | 54.20 | -1.2 |
| | | | eSg | 04 | 02.50 | |
| KAP | 1.29 | 46 | ePb | 04 | 06.50 | 1.0 |
| VAM | 1.68 | 297 | ePb | 04 | 12.20 | 1.0 |
| KSL | 3.24 | 62 | ePn | 04 | 37.70 | 4.1X |
| ELL | 3.78 | 55 | eP | 04 | 44.00 | 2.7X |
| PRK | 4.58 | 2 | ePn | 04 | 56.80 | 4.3X |

| | | | | | | |
|------|-----------------------|-----|----|----|-------|-------|
| BCK | 4.63 | 52 | eP | 04 | 53.00 | -0.3 |
| VAY | 7.19 | 339 | eP | 05 | 33.50 | 4.2X |
| OHR | 7.66 | 329 | eP | 05 | 41.00 | 5.1X |
| DSI | 8.42 | 109 | eP | 05 | 58.00 | 11.4X |
| PRNI | 8.70 | 117 | eP | 05 | 50.00 | -0.5 |
| S.D. | = 1.4 on 5 of 11 obs. | | | | | |

FEB 21, 1989 00h 54m 44.46±0.74s
39.316 N ± 7.0km 27.687 E ± 6.6km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 3.0 (ATH).

| | | | | | | |
|-----|------|-----|-----|----|-------|------|
| DST | 0.78 | 68 | iPg | 54 | 59.30 | -0.5 |
| | | | eSg | 55 | 10.30 | |
| Izm | 0.97 | 200 | iPg | 55 | 01.00 | -2.0 |
| | | | iSg | 55 | 14.50 | |
| EDC | 1.04 | 7 | iPn | 55 | 03.80 | -0.3 |
| BNT | 1.05 | 10 | iPn | 55 | 02.80 | -1.5 |
| KCT | 1.07 | 29 | iPn | 55 | 04.80 | 0.3 |
| PRK | 1.10 | 267 | ePb | 55 | 05.80 | 0.7 |
| | | | eSb | 55 | 23.20 | |

| | | | | | | |
|------|------------------------|-----|-----|----|-------|-----|
| EZN | 1.17 | 296 | ePn | 55 | 06.50 | 0.2 |
| KHL | 1.74 | 124 | ePn | 55 | 17.00 | 2.0 |
| YLV | 1.80 | 46 | iPn | 55 | 15.80 | 0.0 |
| RDO | 2.46 | 319 | ePn | 55 | 26.30 | 1.1 |
| S.D. | = 1.3 on 10 of 10 obs. | | | | | |

% FEB 21, 1989 00h 57m 44.02±1.45s
47.495 N ± 7.2km 7.579 E ±17.7km
DEPTH = 10.0km (geophysicist)

SWITZERLAND (544)

ML 2.2 (LDG).

| | | | | | | |
|-----|------|-----|----|----|-------|-----|
| BSF | 0.63 | 303 | Pg | 57 | 56.70 | 0.0 |
| | | | Sg | 58 | 06.83 | |
| | | | Sn | 58 | 08.00 | |
| CDF | 0.94 | 348 | Pg | 58 | 02.00 | 0.0 |
| | | | Sg | 58 | 16.20 | |
| HAU | 0.97 | 302 | Pg | 58 | 0 | |

21d 01h

CHJJ 5.86 66 P 41 31.00 0.6
 INK 60.49 25 eP 48 51.00 0.3
 MBC 61.58 15 eP 48 58.00 -0.1
 HFS 73.73 333 eP 50 13.10 -1.1
 0.5s 0.90nm 4.0mb
 Z 15s 0.17um 4.4Msxz
 LR 16 06.00
 S.D. = 0.7 on 17 of 17 obs.

FEB 21, 1989 02h 48m 36.10 ± 0.58s
 42.075 N ± 5.3km 24.954 E ± 4.8km
 DEPTH = 10.0km (geophysicist)
 BULGARIA (359)
 ML 2.8 (THE).

RZN 0.43 205 iPg 48 44.00 -0.8
 Sg 48 49.00
 DIM 0.43 93 iPd 48 46.00 1.1
 KDZ 0.55 141 iPg 48 46.00 -1.2
 PGB 0.75 309 iP 48 50.00 -0.9
 RDO 1.03 155 ePb 48 54.80 -0.7
 eSb 49 07.70
 MMB 1.04 243 iPg 48 55.00 -0.7
 PVL 1.17 14 iPd 48 58.00 0.0
 VTS 1.39 292 iPg 49 01.00 -0.7
 KKB 1.41 262 Pg 49 02.00 0.2
 SOH 1.74 224 ePb 49 06.90 0.4
 eSb 49 30.90
 KNT 1.79 240 ePb 49 08.90 1.6
 eSb 49 32.60
 OUR 1.89 203 ePn 49 09.80 1.2
 VAY 1.94 248 ePn 49 10.00 0.6
 PLG 2.05 214 ePn 49 13.80 2.8X
 S.D. = 1.0 on 13 of 14 obs.

* FEB 21, 1989 02h 54m 04.49 ± 1.35s
 65.448 N ± 6.4km 28.257 E ± 19.2km
 DEPTH = 10.0km (geophysicist)
 FINLAND (721)
 MD 3.5 (BER).

KJF 1.28 191 iP 54 27.90 -0.2
 iS 54 45.30
 iSg 54 46.50
 SOD 2.04 342 iP 54 40.80 1.6
 iS 55 08.10
 SUF 2.89 200 eP 54 52.00 0.6
 KEV 4.35 354 iP 55 10.90 -1.2
 NUR 5.22 200 iPg 55 39.50 15.1X
 iS 56 18.20
 iSg 56 52.80
 TRO 5.51 324 iP 55 28.05 -0.5
 iS 56 30.94
 LOF 6.40 301 eP 55 41.39 0.3
 eS 56 46.13
 NRA0 8.92 246 iPc 56 15.60 -0.6
 iS 57 54.70
 iSg 58 47.50
 S.D. = 1.1 on 7 of 8 obs.

FEB 21, 1989 03h 03m 47.18 ± 0.67s
 33.406 N ± 9.5km 132.359 E ± 7.7km
 DEPTH = 33.0km (normal)
 SHIKOKU, JAPAN (236)
 MG 3.4 (JMA). Felt (1 JMA) at
 Uwajima.

UWA 0.25 137 P 03 00.00 -54.3X
 SHNJ 1.26 305 P 04 08.60 0.0
 eS 04 24.90
 TKSJ 1.52 67 eP 04 12.50 0.1
 eS 04 33.60
 KUMJ 1.55 236 eP 04 12.30 -0.5
 S 04 31.20
 YONJ 2.00 27 eP 04 19.60 0.3
 eS 04 47.20
 KAGJ 2.54 210 eP 04 27.50 0.5
 eS 04 56.50
 WKYJ 2.81 72 eP 04 30.40 -0.4
 S.D. = 0.5 on 6 of 7 obs.

? FEB 21, 1989 04h 05m 42.41 ± 7.15s
 32.345 S ± 47.3km 71.698 W ± 34.7km
 DEPTH = 28.1 ± 9.2 km
 NEAR COAST OF CENTRAL CHILE (135)

ROCH 0.85 137 iP 05 58.40 -0.2
 iS 06 09.50
 JACH 0.99 110 iPc 06 00.20 -0.3
 iS 06 12.60
 LCCH 1.13 175 iPc 06 02.40 0.0
 iS 06 15.90
 PEL 1.17 133 iPc 06 02.50 -0.5
 iS 06 16.80
 SAN 1.41 142 iPc 06 05.80 -0.6
 iS 06 22.00
 TACH 1.45 154 iP 06 07.00 0.0
 iS 06 24.00
 FCH 1.54 130 iPd 06 08.00 -0.5
 iS 06 26.00
 PCH 1.62 142 iPd 06 08.80 -0.6
 iS 06 27.50
 LNV 1.62 172 iPc 06 08.40 -1.0
 iS 06 26.00
 CHCH 1.81 151 eP 06 12.00 -0.2
 S.D. = 0.4 on 10 of 10 obs.

% FEB 21, 1989 04h 22m 47.82 ± 1.84s
 44.642 N ± 9.2km 6.835 E ± 19.2km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.3 (GEN).

PZZ 0.23 126 P 22 53.30 0.4
 S 22 57.10
 RRL 0.28 353 P 22 53.84 0.0
 S 22 58.44
 STV 0.53 138 P 22 58.19 -0.4
 S 23 05.58
 RSP 0.59 30 P 22 59.77 -0.1
 S 23 08.76
 ROB 0.82 115 P 23 03.54 -0.2
 S 23 15.01
 IMI 1.05 134 P 23 07.90 0.2
 S 23 20.89
 FIN 1.08 113 P 23 08.13 0.1
 S 23 21.84
 S.D. = 0.3 on 7 of 7 obs.

% FEB 21, 1989 04h 30m 02.04 ± 0.84s
 40.793 N ± 5.5km 27.506 E ± 7.7km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

EDC 0.52 148 ePg 30 12.80 0.2
 eSg 30 20.80
 BNT 0.54 144 iPg 30 12.60 -0.3
 CTT 0.78 63 ePg 30 17.20 -0.1
 eSg 30 28.70
 KCT 0.85 130 iPg 30 18.60 0.2
 iSg 30 34.60
 DMK 1.05 10 ePg 30 21.80 0.0
 eSg 30 35.30
 EZN 1.32 223 ePn 30 26.40 0.0
 S.D. = 0.3 on 6 of 6 obs.

? FEB 21, 1989 04h 36m 03.96 ± 1.03s
 43.048 N ± 8.6km 12.972 E ± 7.3km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)
 MD 2.0 (SSO).

CIO 0.19 41 iPg 36 08.52 0.2
 iSg 36 11.93
 ASS 0.23 276 P 36 09.00 0.1
 eSg 36 12.90
 ARV 0.45 357 P 36 12.90 -0.2
 eSg 36 19.90
 ALP 0.52 121 e(Pg) 36 14.41 -0.1
 iSg 36 23.49
 S.D. = 0.4 on 4 of 4 obs.

% FEB 21, 1989 05h 06m 42.85 ± 0.74s
 42.199 N ± 9.1km 142.760 E ± 9.0km
 DEPTH = 33.0km (normal)
 HOKKAIDO, JAPAN REGION (224)
 MG 2.9 (JMA). Felt (1 JMA) at
 Urakawa.

URA 0.04 160 eP 06 48.00 -0.4
 S 06 54.10
 HOOJ 0.43 65 iPd 06 52.40 0.0
 S 07 00.10

MRRJ 1.27 281 P 07 03.60 -0.8
 eS 07 19.70
 KUSJ 1.70 57 P 07 10.00 -0.5
 eS 07 31.50
 ASAJ 1.92 357 eP 07 14.80 1.0
 OFUJ 3.22 195 eP 07 33.00 0.7
 eS 08 11.80
 S.D. = 0.9 on 6 of 6 obs.

% FEB 21, 1989 05h 50m 45.65 ± 0.83s
 43.654 N ± 9.4km 2.118 E ± 7.0km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.3 (LDG).

LPO 1.23 327 Pg 51 09.40 0.9
 Sg 51 28.30
 CAF 1.27 358 Pg 51 08.40 -0.9
 Sg 51 27.20
 EPF 1.44 245 Pg 51 11.50 -0.3
 Sg 51 31.80
 LRG 3.09 92 Pg 51 35.80 0.5
 LMR 3.21 94 Pg 51 36.90 -0.2
 FRF 3.29 90 Pg 51 38.30 0.0
 S.D. = 0.8 on 6 of 6 obs.

& FEB 21, 1989 06h 48m 21.66s
 47.324 N 122.460 W
 DEPTH = 16.0km
 WASHINGTON (29)
 <SEA>. CL 3.0 (SEA). Felt (IV)
 at Dockton and (III) at Keyport
 and Puyallup. Also felt at
 Burien, Enumclaw, Fife, Federal
 Way, Part Orchard, Renton,
 Skyway, Tacoma and on Voshon
 Island.

MEW 0.18 226 iPd 48 26.74 0.6
 eS 48 29.61
 SPW 0.27 32 iP 48 27.84 0.1
 eS 48 32.40
 GHW 0.31 156 iPd 48 27.85 -0.5
 eS 48 32.67
 GMW 0.32 315 iP 48 27.82 -0.7
 eS 48 32.30
 RMW 0.47 73 iP 48 30.53 -0.6
 GSM 0.47 105 iPc 48 30.70 -0.5
 PGW 0.51 349 iPd 48 31.46 -0.3
 RVC 0.51 139 iPd 48 31.13 -0.7
 HDW 0.52 309 iPd 48 31.04 -0.9
 CPW 0.58 233 iPd 48 32.22 -0.8
 BLH 0.59 29 eP 48 32.33 -0.8
 SMW 0.60 270 iP 48 32.84 -0.5
 FMW 0.67 126 iPd 48 33.61 -1.0
 LMW 0.67 170 iPd 48 33.68 -0.9
 HTW 0.67 44 iPd 48 33.56 -1.0
 APW 0.68 191 iPd 48 33.76 -1.0
 LON 0.73 142 iPd 48 34.50 -1.0
 BLN 0.77 333 iPd 48 34.90 -1.3
 KOSW 0.88 168 eP 48 37.19 -1.0
 WPW 0.88 135 iP 48 37.32 -0.9
 CWZ 0.89 160 iPd 48 37.27 -1.0
 CZM 0.89 182 iPd 48 37.22 -1.1
 JCW 0.94 22 iPd 48 38.12 -1.0
 OBH 0.96 271 iP 48 38.45 -1.0
 GLK 0.96 142 iP 48 38.48 -1.0
 OSD 0.98 301 iP 48 39.07 -0.8
 TDL 0.99 170 iPd 48 38.81 -1.2
 BMW 1.00 212 iPd 48 38.93 -1.3
 OHW 1.00 357 eP 48 38.70 -1.4
 ONR 1.00 244 eP 48 39.58 -0.6
 ERK 1.02 175 iPd 48 39.09 -1.5
 STD 1.10 171 iPd 48 40.67 -1.3
 TWW 1.10 99 eP 48 41.60 -0.3
 SOSW 1.11 168 iP 48 40.50 -1.6
 CMW 1.12 12 iPd 48 41.22 -1.1
 YEL 1.13 170 iP 48 41.25 -1.3
 FL2 1.13 176 iPd 48 40.97 -1.5
 SHW 1.14 172 iPd 48 41.54 -1.1
 ESD 1.15 169 eP 48 41.56 -1.2
 STW 1.16 316 eP 48 41.97 -1.0
 HSR 1.17 171 eP 48 42.06 -1.1
 RVW 1.19 190 eP 48 41.98 -1.4
 JLK 1.20 170 eP 48 42.25 -1.3
 CDFW 1.24 167 eP 48 42.93 -1.3
 NAC 1.26 117 eP 48 44.24 -0.4

TBM 1.28 96 eP 48 44.45 -0.4
 RPW 1.29 29 eP 48 44.02 -1.0
 MTMW 1.31 172 eP 48 44.16 -1.2
 EBG 1.36 107 eP 48 45.83 -0.1
 MCW 1.38 350 eP 48 44.94 -1.3
 NLO 1.41 209 eP 48 45.83 -0.9
 MBW 1.51 14 eP 48 47.68 -0.5
 VGB 2.15 147 eP 48 57.90 0.5
 53 obs. associated

FEB 21, 1989 08h 32m 46.99±0.59s
 43.952 N ± 6.2km 12.569 E ± 5.0km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)

RSM 0.09 254 P 32 50.30 0.8
 eSg 32 53.80
 SFI 0.52 267 P 32 56.90 -0.6
 eSg 33 06.60
 ARV 0.53 149 P 32 57.20 -0.5
 eSg 33 07.60
 PGD 0.62 263 P 32 59.30 -0.2
 eSg 33 09.40
 AOI 0.85 118 ePg 33 02.88 -0.5
 i(Sg) 33 17.98
 CIO 0.86 151 ePg 33 04.54 0.9
 iSg 33 20.30
 TRI 1.95 25 eP 33 20.00 -0.5
 i 33 42.70
 i 33 45.40
 VOY 2.28 24 e(Pn) 33 26.00 0.6
 eSn 33 55.60
 KBA 3.17 10 eP 33 44.50 6.4X
 BZS 6.65 72 ePd 34 36.50 9.4X
 S.D. = 0.8 on 8 of 10 obs.

FEB 21, 1989 08h 55m 26.92±1.48s
 41.372 N ±10.0km 29.289 E ± 8.9km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

ISK 0.35 210 ePg 55 34.30 0.1
 GBZT 0.59 169 ePg 55 38.70 -0.2
 HRT 0.62 152 ePg 55 39.90 0.5
 eSg 55 49.50
 CTT 0.69 251 ePn 55 40.30 -0.2
 YLV 0.81 175 iPn 55 42.00 -0.6
 DMK 1.23 292 iPn 55 49.90 0.0
 KCT 1.33 213 iPn 55 52.00 0.6
 BNT 1.45 226 iPn 55 53.00 -0.2
 EDC 1.49 227 ePn 55 53.80 0.1
 DST 1.84 196 ePn 56 00.50 1.7X
 S.D. = 0.4 on 9 of 10 obs.

% FEB 21, 1989 08h 56m 49.08±3.62s
 41.390 N ±25.1km 29.309 E ±12.5km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

ISK 0.37 210 ePg 56 56.80 0.0
 HRT 0.63 154 ePg 57 01.80 0.0
 CTT 0.71 250 ePn 57 03.00 0.0
 YLV 0.82 177 iPn 57 05.00 -0.1
 KCT 1.35 213 ePn 57 14.00 0.1
 S.D. = 0.1 on 5 of 5 obs.

% FEB 21, 1989 09h 00m 02.46±1.85s
 41.370 N ±12.5km 29.240 E ±11.7km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

ISK 0.33 204 ePg 00 10.00 0.7
 HRT 0.64 149 ePg 00 15.00 -0.3
 CTT 0.65 250 ePg 00 14.00 -1.4
 YLV 0.81 173 iPg 00 18.00 -0.2
 DMK 1.20 293 ePn 00 25.60 0.8
 KCT 1.31 211 iPn 00 27.50 0.9
 BNT 1.42 225 iPn 00 28.00 -0.4
 S.D. = 1.0 on 7 of 7 obs.

FEB 21, 1989 09h 19m 22.63±0.84s
 24.084 N ± 7.4km 123.631 E ± 6.3km
 DEPTH = 54.1 ± 6.9 km
 4.5mb (7 obs.)
 SOUTHWESTERN RYUKYU ISLANDS (246)
 Felt (1 JMA) on Ishigaki-shimo.

ISI 0.55 63 iPd 19 35.00 0.2
 iS 19 44.20
 TWC 1.71 288 ePc 19 49.80 -0.7
 eS 20 06.70
 TWD 1.86 270 ePc 19 51.50 -1.1
 TWZ 2.12 299 eP 19 57.00 0.7
 ANP 2.21 300 iPc 19 59.00 1.3
 TWK 2.99 255 eP 20 08.70 -0.1
 QZH 4.67 282 Pc 20 30.20 -2.1
 S 21 20.50
 S 21 08.50 -0.8

SSE 7.31 343 Pd 21 08.50 -0.8
 0.7s 116.00nm
 eLg 23 20.00
 21 32.00 -0.4
 Z 8.99 333 eP 21 32.00 -0.4
 18s 0.30um

QIZ 13.78 251 eP 22 44.40 7.5X
 GYA 15.53 282 eP 23 01.00 1.2
 XAN 16.22 311 P 23 11.10 2.6
 TIY 16.62 327 Pc 23 16.60 3.1X
 E 10s 0.04um
 BJI 17.11 340 eP 23 20.50 1.1
 CD2 18.88 295 eP 23 40.80 -0.6
 HHC 19.54 332 Pc 23 48.20 -0.5
 CN2 19.72 4 eP 23 47.00 -3.5X
 pP 24 03.00 82kmX
 BTO 20.04 328 P 23 54.50 0.5
 eS 27 36.00
 LZH 20.84 310 eP 24 02.00 -0.3
 1.0s 0.02nm
 LOE 21.52 256 eP 24 08.00 -1.0
 CHG 23.55 262 eP 24 30.50 1.4
 GTA 25.26 313 Pc 24 45.00 -0.5
 GBA 44.77 265 P 27 35.00 2.1
 0.7s 1.20nm
 WB5 44.93 166 eP 27 34.20 0.1
 WRA 44.99 166 Pd 27 34.50 0.0
 0.8s 2.70nm
 WB5 50.06 176 eP 28 05.80 -8.2X
 FBA 67.87 27 eP 30 18.00 0.9
 0.9s 5.00nm
 SOD 70.67 336 iP 30 33.80 -0.4
 KJF 71.12 333 iP 30 35.00 -2.0
 SUF 72.22 331 eP 30 43.00 -0.6
 0.7s 5.60nm
 INK 72.47 22 ePd 30 44.60 -0.4
 MBC 72.86 13 eP 30 46.00 -1.2
 NUR 73.62 329 eP 30 51.00 -0.7
 HFS 78.74 331 eP 31 19.50 -1.0
 0.5s 2.60nm
 NB2 79.35 333 P 31 23.40 -0.5
 0.6s 6.50nm
 KSP 81.89 322 eP 31 38.30 0.8
 YKA 82.18 23 P 31 39.80 1.0
 FRB 91.94 5 eP 32 26.00 -0.2
 FFC 92.31 25 eP 32 29.00 0.9
 0.7s 5.00nm
 S.D. = 1.1 on 35 of 39 obs.

% FEB 21, 1989 09h 36m 35.44±0.87s
 39.252 N ± 7.8km 27.716 E ± 8.6km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

DST 0.79 63 ePg 36 50.50 -0.3
 IZM 0.92 203 ePn 36 53.20 0.1
 KCT 1.11 26 iPn 36 57.00 0.7
 BNT 1.11 8 iPn 36 56.00 -0.3
 EZN 1.22 299 ePn 36 58.00 -0.1
 S.D. = 0.6 on 5 of 5 obs.
 ? FEB 21, 1989 10h 40m 36.93±0.73s
 52.643 N ±30.9km 157.202 E ±23.8km
 DEPTH = 33.0km (normol)
 4.3mb (9 obs.)
 KAMCHATKA (217)

MAT 20.92 227 eP 45 21.00 2.1
 0.8s 24.63nm
 TTA 26.37 49 P 46 12.50 0.9
 0.6s 4.43nm
 IMA 27.55 42 P 46 22.80 0.4
 0.5s 2.22nm
 PMR 29.66 51 P 46 44.70 3.5X
 1.0s 6.25nm
 FBA 29.98 44 eP 46 45.00 1.0
 0.9s 4.17nm
 INK 35.29 37 iPc 47 30.80 0.6

YKA 44.67 41 P 48 48.10 0.3
 LBFM 53.54 68 P 49 57.20 0.6
 LRM 55.65 58 eP 50 15.70 3.6X
 CHTO 56.09 256 iP 50 13.10 -2.1
 0.9s 2.13nm
 BGMT 56.26 58 eP 50 16.10 -0.4
 KVN 57.22 67 P 50 23.00 -0.3
 TNP 58.39 67 P 50 30.80 -0.7
 0.8s 3.68nm
 BW06 59.26 59 P 50 36.40 -1.2
 0.6s 2.91nm
 ALO 66.62 63 eP 51 25.00 -1.3
 0.8s 1.49nm
 S.D. = 1.2 on 13 of 15 obs.

* FEB 21, 1989 10h 55m 26.76±1.40s
 24.831 N ±10.5km 122.641 E ±12.1km
 DEPTH = 10.0km (geophysicist)
 TAIWAN REGION (243)

TWC 0.75 253 ePc 55 40.20 -1.3
 eS 55 48.10
 TWZ 1.00 286 eP 55 46.10 0.4
 ANP 1.08 289 ePd 55 48.50 1.4
 0.9s 67.23nm
 eS 55 59.30
 TWD 1.21 232 ePc 55 49.00 -0.3
 SSE 6.37 349 eP 57 02.00 -1.0
 Lg 59 02.00
 WB5 45.88 165 eP 03 52.00 0.7
 S.D. = 1.3 on 6 of 6 obs.

* FEB 21, 1989 12h 29m 46.66±0.84s
 42.833 N ± 7.6km 23.548 E ±10.7km
 DEPTH = 10.0km (geophysicist)
 BULGARIA (359)
 ML 2.6 (THE).

VAY 1.68 206 ePn 30 17.20 1.0
 SRS 1.72 179 ePg 30 15.60 -1.1
 KNT 1.74 196 ePg 30 17.40 0.3
 eSg 30 42.60
 SKO 1.78 242 ePn 30 23.00 5.3X
 eSn 30 51.00
 SOH 2.02 184 ePg 30 19.80 -1.3
 GRG 2.06 205 ePg 30 24.40 2.6X
 BZS 3.11 334 ePd 30 37.50 0.9
 MLR 3.17 32 eP 30 36.00 -1.6
 CTT 4.01 113 ePg 30 50.60 1.2
 ISK 4.47 111 ePg 30 56.70 0.7
 HRT 4.99 112 ePg 31 06.20 2.7X
 S.D. = 1.4 on 8 of 11 obs.

? FEB 21, 1989 12h 59m 03.52±11.67s
 40.769 N ±30.8km 30.418 E ±79.1km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

HRT 0.57 276 ePg 59 15.80 0.7
 eSg 59 23.90
 GBZT 0.74 272 ePg 59 17.50 -0.5
 iSg 59 28.50
 YLV 0.82 256 iPn 59 19.30 -0.2
 ISK 1.07 287 ePn 59 23.00 -0.7
 CTT 1.55 285 ePn 59 31.80 0.6
 S.D. = 0.9 on 5 of 5 obs.

? FEB 21, 1989 13h 00m 11.91±3.96s
 51.445 N ±45.0km 178.355 W ±36.5km
 DEPTH = 33.0km (normol)
 3.9mb (1 obs.)
 ANDREANOF ISLANDS, ALEUTIAN IS. (7)
 Felt (III) on Adak.

ADK 1.13 66 iPd 00 31.60 0.2
 KDC 16.20 57 eP 03 58.00 -0.3
 FBA 20.72 38 eP 04 51.70 0.1
 KVN 43.02 82 P 08 23.50 13.6X
 BW06 46.02 73 eP 08 34.00 0.0
 0.6s 1.02nm
 S.D. = 0.3 on 4 of 5 obs.

FEB 21, 1989 13h 04m 15.11±0.73s
 39.223 N ± 6.4km 27.805 E ± 6.8km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

21d 13h

| | | | | | | |
|-----|------|-----|-----|----|-------|------|
| DST | 0.74 | 59 | iPg | 04 | 29.60 | -0.1 |
| IZM | 0.93 | 207 | ePn | 04 | 33.00 | 0.2 |
| KCT | 1.11 | 22 | iPn | 04 | 36.30 | 0.4 |
| EDC | 1.12 | 2 | ePn | 04 | 35.80 | -0.4 |
| BNT | 1.14 | 4 | iPn | 04 | 36.80 | 0.4 |
| EZN | 1.29 | 298 | ePn | 04 | 38.80 | -0.2 |
| KAS | 5.04 | 63 | eP | 05 | 32.30 | -0.3 |

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

% FEB 21, 1989 13h 15m 45.29±1.28s
26.195 S ± 9.1km 28.135 E ± 14.6km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)

| | | | | | | |
|-----|------|-----|-----|----|-------|--------|
| SLR | 0.48 | 16 | iPd | 15 | 54.50 | -0.4 |
| | | | i | 15 | 58.00 | |
| PRY | 0.94 | 219 | iPd | 16 | 02.50 | -1.3 |
| | | | S | 16 | 15.50 | |
| KSR | 1.16 | 286 | iPd | 16 | 08.50 | 0.9 |
| | | | S | 16 | 23.50 | |
| BFS | 1.40 | 240 | eP | 16 | 11.00 | -0.6 |
| | | | S | 16 | 30.50 | |
| SEK | 2.17 | 192 | eP | 16 | 24.00 | 1.3 |
| | | | S | 16 | 50.00 | |
| FRS | 4.33 | 214 | iPd | 16 | 10.50 | -42.7X |

S.D. = 1.5 on 5 of 6 obs.

FEB 21, 1989 13h 16m 28.38±0.51s
31.308 S ± 5.6km 67.183 W ± 4.4km
DEPTH = 48.8 ± 5.5 km
4.9mb (10 obs.)

SAN JUAN PROVINCE, ARGENTINA (137)
Felt (111) at San Juan.

| | | | | | | |
|------|-------|-----|------|----|-------|------|
| CFA | 0.95 | 251 | iPd | 16 | 44.10 | -1.5 |
| RTLL | 1.10 | 269 | iPd | 16 | 47.20 | -0.5 |
| RTCV | 1.28 | 244 | iPc | 16 | 49.60 | -0.6 |
| ZON | 1.30 | 259 | iPd | 16 | 49.00 | -1.5 |
| RTCB | 1.39 | 262 | iPd | 16 | 52.20 | 0.3 |
| RTRS | 2.26 | 299 | iPd | 17 | 06.70 | 2.6X |
| JACH | 3.20 | 244 | iPc | 17 | 19.00 | 1.4 |
| FCH | 3.31 | 232 | eP | 17 | 20.50 | 1.2 |
| | | | iS | 18 | 06.50 | |
| PEL | 3.49 | 237 | iPd | 17 | 22.10 | 0.5 |
| SAN | 3.64 | 233 | iPd | 17 | 24.50 | 0.8 |
| | | | iS | 18 | 07.00 | |
| PCH | 3.64 | 230 | iPd | 17 | 24.50 | 0.8 |
| | | | iS | 18 | 10.60 | |
| ROCH | 3.65 | 242 | iPd | 17 | 24.40 | 0.4 |
| CHCH | 3.93 | 227 | iPc | 17 | 28.70 | 1.0 |
| | | | iS | 18 | 17.00 | |
| TACH | 3.94 | 233 | iPd | 17 | 27.50 | -0.4 |
| | | | iS | 18 | 13.60 | |
| LNV | 4.44 | 232 | eP | 17 | 33.50 | -1.3 |
| HJA | 8.22 | 12 | ePc | 18 | 30.00 | 2.3X |
| ITB7 | 13.02 | 65 | eP | 19 | 31.10 | -1.8 |
| ITB1 | 13.10 | 63 | e(P) | 19 | 35.00 | 1.0 |
| ITB | 13.16 | 64 | e(P) | 19 | 35.50 | 0.7 |
| CNCB | 14.45 | 357 | P | 19 | 52.00 | -0.3 |
| LPB | 14.73 | 357 | eP | 20 | 04.00 | 8.2X |
| ZOBO | 15.00 | 357 | Pc | 20 | 06.70 | 7.3X |

Z 20s 0.67um

| | | | | | | |
|-----|-------|-----|------|----|-------|------|
| ARE | 15.29 | 344 | e(P) | 20 | 05.80 | 2.8X |
| VAO | 19.78 | 70 | eP | 21 | 07.20 | 9.8X |
| ITA | 21.91 | 72 | eP | 21 | 20.20 | 0.7 |
| BMA | 22.21 | 73 | eP | 21 | 22.80 | 0.7 |
| SPA | 58.86 | 180 | iPc | 26 | 23.30 | -1.1 |

| | | | | | | |
|-----|-------|-----|------|----|-------|-------|
| LIC | 70.02 | 69 | P | 27 | 36.50 | -0.8 |
| TIC | 70.27 | 69 | P | 27 | 39.00 | 0.1 |
| KIC | 70.33 | 69 | P | 27 | 38.40 | -0.8 |
| VVO | 71.52 | 336 | e(P) | 27 | 45.80 | -0.2 |
| RLO | 72.02 | 337 | eP | 27 | 45.20 | -3.8X |
| LNO | 72.06 | 336 | e(P) | 27 | 49.80 | 0.7 |
| TUL | 72.06 | 336 | eP | 27 | 49.00 | -0.2 |

| | | | | | | |
|-----|-------|-----|------|---------|-------|-------|
| SIO | 72.09 | 335 | e(P) | 27 | 48.70 | -0.7 |
| FVM | 72.27 | 341 | eP | 27 | 50.00 | -0.4 |
| | | | 1.0s | 15.00nm | | 4.9mb |
| KUK | 73.76 | 72 | eP | 27 | 59.50 | -0.1 |
| ALO | 75.55 | 328 | eP | 28 | 10.00 | 0.3 |

| | | | | | | |
|-----|-------|-----|------|---------|-------|-------|
| FRS | 77.13 | 117 | iPd | 28 | 19.00 | 0.4 |
| | | | 1.0s | 12.00nm | | 4.9mb |
| KIM | 77.19 | 116 | eP | 28 | 18.50 | -0.7 |

| | | | | | | |
|-----|-------|-----|------|--------|-------|-------|
| GOL | 79.04 | 331 | eP | 28 | 29.80 | 0.7 |
| | | | 0.9s | 9.47nm | | 4.7mb |
| SEK | 79.58 | 117 | iPd | 28 | 33.00 | 0.7 |
| BFS | 79.64 | 115 | eP | 28 | 32.00 | -0.6 |
| PRY | 80.16 | 115 | iPc | 28 | 34.80 | -0.6 |
| KSR | 80.24 | 114 | iPd | 28 | 35.00 | -0.9 |
| SLR | 81.39 | 115 | iPc | 28 | 41.50 | -0.3 |

| | | | | | | |
|------|-------|-----|------|---------|-------|-------|
| | | | 1.0s | 20.00nm | | 5.0mb |
| BW06 | 83.36 | 330 | eP | 28 | 51.10 | -0.5 |
| | | | 0.8s | 5.00nm | | 4.6mb |
| KVN | 84.51 | 323 | eP | 28 | 58.00 | 0.5 |
| LRM | 87.04 | 330 | eP | 29 | 10.60 | 0.7 |
| BNG | 88.63 | 84 | iPd | 29 | 19.50 | 1.5 |

| | | | | | | |
|-----|--------|-----|-------|---------|-------|-------|
| | | | 0.8s | 10.00nm | | 5.2mb |
| | | | ic | 29 | 31.00 | |
| FFC | 90.77 | 341 | eP | 29 | 27.50 | 0.5 |
| | | | 0.8s | 8.00nm | | 5.2mb |
| YKA | 100.90 | 340 | Pdiff | 30 | 13.70 | 0.7 |
| VRI | 114.25 | 50 | ePKPc | 35 | 06.50 | 2.5X |

| | | | | | | |
|-----|--------|-----|-------|--------|-------|------|
| | | | ed | 47 | 56.00 | |
| WB5 | 125.06 | 205 | ePKP | 35 | 24.20 | -1.2 |
| GBA | 143.07 | 110 | PKPd | 35 | 59.30 | 0.2 |
| | | | 0.5s | 2.50nm | | |
| HYB | 146.02 | 106 | iPKPc | 36 | 05.30 | 1.2 |

| | | | | | | |
|-----|--------|-----|-------|---------|-------|------|
| | | | 1.2s | 57.10nm | | |
| | | | e | 36 | 17.00 | |
| PSI | 148.66 | 153 | ePKPc | 36 | 11.90 | 3.4X |
| NDI | 149.14 | 86 | iPKPc | 36 | 13.20 | 4.4X |
| GKN | 155.32 | 90 | PKP | 36 | 17.00 | -0.9 |

S.D. = 0.9 on 49 of 59 obs.

* FEB 21, 1989 13h 19m 53.25±4.43s
41.537 N ± 33.1km 23.179 E ± 9.4km
DEPTH = 10.0km (geophysicist)

GREECE-BULGARIA BORDER REGION (363)
ML 2.5 (THE).

| | | | | | | |
|-----|------|-----|-----|----|-------|------|
| KNT | 0.43 | 210 | ePg | 20 | 02.00 | 0.0 |
| VAY | 0.51 | 245 | ePg | 20 | 03.40 | -0.1 |
| | | | iSg | 20 | 13.70 | |

| | | | | | | |
|-----|------|-----|-----|----|-------|------|
| SRS | 0.52 | 143 | ePg | 20 | 03.10 | -0.7 |
| | | | eSg | 20 | 15.90 | |
| SOH | 0.73 | 169 | ePg | 20 | 07.70 | 0.1 |
| | | | eSg | 20 | 20.50 | |

| | | | | | | |
|-----|------|-----|-----|----|-------|------|
| GRG | 0.82 | 226 | ePg | 20 | 09.10 | -0.1 |
| | | | eSg | 20 | 23.90 | |
| OUR | 1.35 | 153 | ePb | 20 | 18.80 | 0.8 |
| | | | eSb | 20 | 40.90 | |

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

* FEB 21, 1989 13h 29m 08.59±2.07s
42.325 N ± 17.5km 24.135 E ± 10.3km
DEPTH = 10.0km (geophysicist)

BULGARIA (359)
MG 3.0 (THE).

| | | | | | | |
|-----|------|-----|-----|----|-------|------|
| SRS | 1.27 | 199 | ePb | 29 | 32.20 | 0.0 |
| | | | eSb | 29 | 54.90 | |
| KNT | 1.49 | 219 | ePn | 29 | 34.90 | -0.4 |
| | | | eSn | 29 | 58.50 | |

| | | | | | | |
|-----|------|-----|-----|----|-------|------|
| VAY | 1.54 | 230 | ePn | 29 | 36.00 | -0.1 |
| RDO | 1.58 | 138 | ePn | 29 | 36.50 | -0.1 |
| | | | eSn | 30 | 01.00 | |
| SOH | 1.61 | 202 | ePn | 29 | 36.80 | -0.4 |
| | | | eSn | 30 | 04.70 | |

| | | | | | | |
|-----|------|-----|-----|----|-------|-------|
| PLG | 2.02 | 195 | ePn | 29 | 44.00 | 0.9 |
| SKO | 2.03 | 261 | ePn | 29 | 43.50 | 0.2 |
| MLR | 3.43 | 22 | ePd | 29 | 59.00 | -4.2X |
| BZS | 3.76 | 332 | ePd | 30 | 11.50 | 3.7X |

S.D. = 0.6 on 7 of 9 obs.

% FEB 21, 1989 13h 39m 27.60±0.85s
32.101 S ± 8.0km 117.206 E ± 9.1km
DEPTH = 10.0km (geophysicist)

WESTERN AUSTRALIA (590)

| | | | | | | |
|------|------|-----|-----|----|-------|------|
| NWAO | 0.82 | 178 | eP | 39 | 43.80 | 0.3 |
| | | | eS | 39 | 54.00 | |
| MUN | 0.86 | 278 | iPd | 39 | 43.70 | -0.4 |
| | | | eS | 39 | 54.00 | |

| | | | | | | |
|------|------|-----|----|----|-------|------|
| BAL | 1.55 | 344 | eP | 39 | 56.30 | 1.0 |
| | | | eS | 40 | 16.00 | |
| MRWA | 3.06 | 340 | eP | 40 | 16.30 | -0.5 |
| | | | iS | 40 | 49.50 | |

| | | | | | | |
|------|------|----|----|----|-------|------|
| COOL | 3.58 | 71 | eP | 40 | 23.90 | -0.4 |
| | | | eS | 41 | 03.00 | |

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

? FEB 21, 1989 13h 42m 26.27±1.02s
43.033 N ± 9.2km 13.034 E ± 7.1km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

| | | | | | | |
|-----|------|-----|-----|----|-------|-----|
| CIO | 0.18 | 26 | iPg | 42 | 30.47 | 0.1 |
| | | | iSg | 42 | 33.63 | |
| ASS | 0.28 | 278 | P | 42 | 32.10 | 0.0 |
| | | | eSg | 42 | 36.20 | |

| | | | | | | |
|-----|------|-----|-------|----|-------|------|
| ALP | 0.47 | 122 | ePg | 42 | 35.90 | 0.0 |
| | | | iSg | 42 | 43.97 | |
| AOI | 0.66 | 39 | e(Pg) | 42 | 39.38 | -0.1 |
| | | | eSg | 42 | 50.35 | |

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

% FEB 21, 1989 13h 54m 02.02±0.82s
39.719 N ± 6.1km 28.755 E ± 7.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

| | | | | | | |
|-----|------|-----|-----|----|-------|-------|
| DST | 0.15 | 221 | iPg | 54 | 04.60 | -1.0 |
| KCT | 0.61 | 330 | iPg | 54 | 14.30 | -0.1 |
| BNT | 0.90 | 315 | iPn | 54 | 19.30 | 0.0 |
| EDC | 0.93 | 313 | iPn | 54 | 19.80 | 0.1 |
| YLV | 0.97 | 29 | iPn | 54 | 20.30 | -0.2 |
| HRT | 1.30 | 32 | ePn | 54 | 25.50 | -0.7 |
| GPA | 1.32 | 64 | iPn | 54 | 16.70 | -9.8X |
| ISK | 1.36 | 10 | ePn | 54 | 27.80 | 0.8 |
| CTT | 1.45 | 350 | ePn | 54 | 28.50 | 0.3 |
| IZM | 1.76 | 222 | ePn | 54 | 34.00 | 1.2 |
| EZN | 1.88 | 274 | ePn | 54 | 34.00 | -0.4 |

S.D. = 0.7 on 10 of 11 obs.

FEB 21, 1989 14h 09m 42.54±0.33s
35.597 N ± 5.8km 80.592 E ± 5.9km
DEPTH = 33.0km (normal)
4.5mb (8 obs.) 4.0Msz (1 obs.)

KASHMIR-TIBET BORDER REGION (304)

| | | | | | | |
|-----|------|-----|------|----------|-------|---------|
| KSH | 5.32 | 318 | Pn | 11 | 03.50 | 1.7 |
| | | | Sg | 12 | 25.00 | |
| NDI | 7.46 | 203 | eP | 11 | 36.00 | 4.2X |
| | | | 0.2s | 111.11nm | | 6.5mb X |
| | | | eS | 13 | 03.50 | |

| | | | | | | |
|-----|------|-----|------|---------|-------|---------|
| GKN | 8.32 | 154 | P | 11 | 43.80 | -0.1 |
| | | | 0.4s | 13.00nm | | 5.4mb X |
| KKN | 8.75 | 152 | P | 11 | 49.60 | -0.3 |
| | | | 0.6s | 22.00nm | | 5.5mb X |
| DMN | 8.84 | 153 | P | 11 | 51.20 | -0.1 |
| | | | 0.6s | 43.00nm | | 5.8mb X |
| PKI | 8.99 | 152 | P | 11 | 53.80 | 0.4 |
| | | | 0.4s | 19.00nm | | 5.6mb X |

| | | | | | | |
|-----|-------|-----|-----|----|-------|-------|
| WMO | 9.87 | 31 | iPd | 11 | 59.70 | -5.5X |
| LSA | 10.66 | 120 | P | 12 | 19.90 | 3.4X |
| QUE | 12.67 | 249 | eP | 12 | 42.70 | -0.6 |
| SHL | 13.94 | 133 | iP | 12 | 55.90 | -4.2X |
| | | | eS | 17 | 16.00 | |

| | | | | | | |
|-----|-------|----|-------|--------|-------|------|
| GTA | 15.72 | 70 | P | 13 | 26.00 | 2.8X |
| | | | Z 14s | 0.50um | | |
| | | | E 10s | 0.60um | | |

| | | | | | | |
|------|-------|-----|----|----|-------|------|
| MAIO | 17.10 | 279 | eP | 13 | 39.00 | -1.7 |
| | | | eS | 16 | 45.00 | |
| POO | 18.02 | 201 | eP | 13 | 51. | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|------|------------------------------------|-----------|------|----|---------|-------|------------------------------------|------------------------------------|-----|------|--------|-------|-------|------|-------|---------|------|-------|---------|----|---------|-------|-------|
| HFS | 48.57 | 322 | eP | 18 | 22.60 | -1.7 | SOH | 0.36 | 59 | ePg | 17 | 15.10 | -0.3 | S | 38 | 39.90 | | | | | | | |
| | 0.5s | 2.70nm | | | 4.5mb | | GRG | 0.52 | 307 | ePg | 17 | 18.70 | 0.0 | ASAJ | 8.42 | 246 | P | | | | | | |
| Z | 17s | 0.15um | | | 4.1mszX | | KNT | 0.52 | 356 | ePg | 17 | 18.90 | 0.2 | HOJ | 9.10 | 235 | eP | | | | | | |
| | | LR | | 38 | 44.00 | | PAIG | 0.90 | 142 | ePg | 17 | 26.70 | 0.7 | | | eS | 39 | | | | | | |
| PRU | 48.99 | 309 | eP | 18 | 39.50 | 11.8X | S.D. = 0.8 on 5 of 5 obs. | | | | | | | | | | MRRJ | 10.33 | 241 | eP | 37 | 52.50 | -0.3 |
| BRG | 49.23 | 310 | e(P) | 18 | 30.50 | 1.0 | FEB 21, 1989 16h 50m 13.58 ± 0.63s | | | | | | | | | | NIIJ | 15.10 | 229 | eP | 38 | 53.40 | -1.5 |
| KHC | 49.76 | 308 | eP | 18 | 35.00 | 1.3 | 43.436 N ± 4.2km 5.438 E ± 4.8km | | | | | | | | | | KAKJ | 15.35 | 224 | eP | 38 | 59.80 | 1.7 |
| NB2 | 49.77 | 323 | P | 18 | 32.20 | -1.4 | DEPTH = 10.0km (geophysicist) | | | | | | | | | | CHJJ | 16.04 | 226 | eP | 39 | 06.10 | -0.6 |
| | 0.8s | 3.60nm | | | 4.5mb | | NEAR SOUTH COAST OF FRANCE (379) | | | | | | | | | | MAT | 16.04 | 229 (P) | | 39 | 07.00 | 0.3 |
| KBA | 50.32 | 305 | eP | 18 | 39.50 | 1.3 | MD 2.9 (STR). | | | | | | | | | | | 0.8s | 11.19nm | | | | 4.2mb |
| | 0.7s | 3.30nm | | | 4.5mb | | GELF | 0.05 | 188 | Pg | 50 | 15.56 | -0.2 | MTMJ | 16.22 | 230 | eP | 39 | 10.10 | | 1.1 | | |
| TRI | 50.35 | 303 | iPc | 18 | 39.00 | 0.9 | TREF | 0.19 | 348 | Pg | 50 | 17.50 | -0.4 | MDJ | 16.72 | 267 | eP | 39 | 16.70 | | 1.7 | | |
| DAG | 57.77 | 344 | eP | 19 | 27.00 | -5.2X | PUYF | 0.21 | 63 | Pg | 50 | 17.50 | -0.7 | IIDJ | 17.02 | 228 | eP | 39 | 18.30 | | -0.6 | | |
| EKA | 58.25 | 318 | P | 19 | 36.00 | 0.2 | BERF | 0.22 | 124 | Pg | 50 | 19.02 | 0.6 | CN2 | 19.79 | 268 | Pd | 39 | 48.00 | | -1.9 | | |
| | 1.5s | 22.70nm | | | 5.0mb | | PRAF | 0.42 | 332 | Pg | 50 | 22.59 | 0.5 | | | pP | | 40 | 16.00 | | | | |
| BNG | 64.82 | 257 | ePc | 20 | 19.00 | -1.7 | VILF | 0.46 | 26 | Pg | 50 | 22.31 | -0.7 | SNY | 21.86 | 264 | Pc | 40 | 11.40 | | 0.7 | | |
| | 1.0s | 5.00nm | | | 4.6mb | | TAVF | 0.49 | 68 | Pg | 50 | 23.15 | -0.3 | TTA | 31.32 | 43 | eP | 41 | 38.00 | | 0.4 | | |
| MBC | 67.71 | 5 | eP | 20 | 37.00 | -1.2 | GANF | 0.66 | 31 | Pg | 50 | 26.66 | 0.0 | TIY | 31.35 | 266 | Pc | 41 | 39.60 | | 1.5 | | |
| | 0.8s | 10.00nm | | | 5.0mb | | CALN | 1.10 | 73 | Pg | 50 | 34.80 | 0.4 | Z | 20s | 0.60um | | | | | 4.3msz | | |
| INK | 73.32 | 13 | eP | 21 | 12.00 | -0.1 | | | | Sg | 50 | 51.33 | | SVW | 31.42 | 46 | eP | 41 | 39.30 | | 0.8 | | |
| WB5 | 75.09 | 128 | eP | 21 | 23.60 | 0.5 | MVIF | 1.33 | 69 | Pn | 50 | 38.57 | 0.4 | IMA | 32.63 | 37 | iPd | 41 | 49.20 | | 0.2 | | |
| YKA | 81.49 | 7 | P | 21 | 57.20 | -0.2 | | | | Sg | 50 | 56.84 | | | 0.9s | 46.90nm | | | | | 5.3mb | | |
| ZOBO | 146.13 | 297 | PKP | 29 | 21.00 | -0.1 | TOUF | 1.43 | 66 | Pn | 50 | 40.15 | 0.3 | BRW | 32.68 | 27 | ePd | 41 | 49.60 | | 0.4 | | |
| LPB | 146.28 | 296 (PKP) | | 29 | 29.00 | 7.9X | | | | Sg | 51 | 01.41 | | KDC | 33.20 | 53 | P | 41 | 52.90 | | -1.0 | | |
| CNCB | 146.37 | 296 | PKP | 29 | 23.00 | 1.5 | AURF | 1.44 | 71 | Pn | 50 | 39.79 | -0.1 | | 0.9s | 35.00nm | | | | | 5.2mb | | |
| | S.D. = 1.1 on 31 of 46 obs. | | | | | | AUTN | 1.55 | 68 | Pn | 50 | 41.71 | 0.3 | WHN | 34.42 | 254 | P | 42 | 05.50 | | 0.9 | | |
| | FEB 21, 1989 14h 33m 35.34 ± 0.40s | | | | | | SAOF | 1.63 | 70 | Pn | 50 | 42.62 | 0.2 | PMR | 34.53 | 45 | eP | 42 | 05.70 | | 0.4 | | |
| | 11.922 N ± 4.2km 61.532 W ± 9.7km | | | | | | DOI | 1.69 | 50 | P | 50 | 43.90 | 0.6 | | 0.9s | 6.70nm | | | | | 4.5mb | | |
| | DEPTH = 100.0 ± 4.9 km | | | | | | | | | eSn | 51 | 07.50 | | FBA | 35.01 | 40 | iPd | 42 | 10.20 | | 0.9 | | |
| | 4.4mb (2 obs.) | | | | | | BNI | 1.85 | 28 | P | 50 | 48.60 | 2.9X | XAN | 35.78 | 263 | eP | 42 | 17.00 | | 0.8 | | |
| | WINDWARD ISLANDS (95) | | | | | | | | | eSn | 51 | 10.30 | | LZH | 37.99 | 270 | eP | 42 | 36.00 | | 1.1 | | |
| GRW | 0.27 | 332 | iP | 33 | 49.40 | -1.8 | CKI | 2.28 | 63 | P | 50 | 52.30 | 0.5 | | 1.5s | 66.00nm | | | | | 5.3mb | | |
| | | eS | | 33 | 57.00 | | | | | eSn | 51 | 23.00 | | GTA | 38.90 | 277 | Pc | 42 | 42.30 | | -0.1 | | |
| TCE | 1.24 | 190 | iPc | 33 | 59.20 | 0.4 | CVF | 2.66 | 108 | Pn | 50 | 55.93 | -1.4 | INK | 40.43 | 33 | iPd | 42 | 55.40 | | 1.0 | | |
| | | eS | | 34 | 13.60 | | | S.D. = 0.6 on 17 of 18 obs. | | | | | | | 0.6s | 20.00nm | | | | | 5.1mb | | |
| TRN | 1.27 | 174 | iPc | 33 | 59.70 | 0.5 | | FEB 21, 1989 16h 52m 53.77 ± 0.54s | | | | | | CD2 | 41.14 | 264 | P | 43 | 01.60 | | 0.8 | | |
| SVB | 1.37 | 11 | iP | 34 | 00.10 | -0.3 | | 4.608 S ± 7.9km 138.823 E ± 8.8km | | | | | | GYA | 42.15 | 256 | P | 43 | 10.00 | | 0.8 | | |
| | | eS | | 34 | 17.60 | | | DEPTH = 33.0km (normal) | | | | | | MBC | 43.26 | 20 | eP | 43 | 18.00 | | 0.5 | | |
| SVV | 1.42 | 12 | iP | 34 | 00.50 | -0.5 | | 4.9mb (4 obs.) | | | | | | WMQ | 44.56 | 290 | iPd | 43 | 28.60 | | 0.1 | | |
| SLB | 1.95 | 14 | iP | 34 | 07.50 | -0.3 | WEST IRIAN | (201) | | | | | | Z | 12s | 0.30um | | | | | 4.4mszX | | |
| | | eS | | 34 | 34.60 | | JAY | 2.80 | 42 | iPc | 53 | 38.20 | 0.9 | YKA | 49.75 | 37 | P | 44 | 09.40 | | 0.9 | | |
| BIM | 2.62 | 10 | iPd | 34 | 17.25 | 0.5 | | | | iS | 54 | 04.00 | | YKC | 49.81 | 37 | ePd | 44 | 09.50 | | 0.5 | | |
| MVM | 2.69 | 13 | iPc | 34 | 18.59 | 0.9 | | | | e | 57 | 50.00 | | | 0.8s | 20.00nm | | | | | 5.1mb | | |
| FDF | 2.82 | 8 | iPd | 34 | 19.88 | 0.4 | MNDI | 5.05 | 108 | e(P) | 54 | 09.00 | -0.5 | SHL | 52.55 | 268 | iP | 44 | 30.20 | | -0.2 | | |
| | | S | | 34 | 49.60 | | PMG | 9.54 | 120 | e(P) | 55 | 08.00 | -4.0X | CHG | 52.57 | 256 | iPc | 44 | 31.20 | | 0.8 | | |
| CUM | 2.97 | 241 | iPd | 34 | 22.40 | 1.0 | MTN | 11.17 | 222 | iPc | 55 | 35.60 | 1.3 | | 0.9s | 9.87nm | | | | | 4.8mb | | |
| | | i | | 34 | 27.40 | | | | | eS | 57 | 24.00 | | GMW | 53.55 | 57 | P | 44 | 37.80 | | 0.6 | | |
| DSVT | 3.29 | 3 | iP | 34 | 26.58 | 0.7 | KNA | 14.84 | 221 | eP | 56 | 23.50 | 0.4 | RMW | 54.15 | 57 | P | 44 | 41.80 | | 0.1 | | |
| | | eS | | 35 | 05.34 | | | | | eS | 59 | 05.00 | | PNT | 54.29 | 54 | eP | 44 | 43.00 | | 0.3 | | |
| BBL | 3.58 | 1 | eP | 34 | 30.00 | 0.2 | WB5 | 15.79 | 196 | eP | 56 | 34.10 | -1.3 | LON | 54.55 | 57 | P | 44 | 44.60 | | -0.1 | | |
| MGG | 3.98 | 3 | eP | 34 | 36.50 | 1.2 | | | | i | 56 | 41.00 | | EDM | 55.28 | 47 | iPc | 44 | 49.50 | | -0.3 | | |
| PAG | 4.09 | 358 | eP | 34 | 37.00 | 0.2 | | | | eS | 59 | 27.50 | | | 0.8s | 53.00nm | | | | | 5.6mb | | |
| | | S | | 35 | 32.00 | | QIS | 15.87 | 177 | eP | 56 | 35.00 | -1.5 | DAG | 55.28 | 358 | eP | 44 | 47.00 | | -2.5 | | |
| DEG | 4.39 | 6 | eP | 34 | 41.50 | 0.5 | | | | e | 01 | 33.00 | | KKN | 55.50 | 274 | P | 44 | 52.00 | | 0.1 | | |
| SEG | 4.45 | 0 | eP | 34 | 43.00 | 1.2 | | | | eS | 59 | 25.00 | | | 0.5s | 9.00nm | | | | | 5.0mb | | |
| MGH | 4.82 | 352 | eP | 34 | 47.00 | 0.2 | | | | e | 01 | 33.00 | | PKI | 55.56 | 274 | P | 44 | 52.40 | | -0.1 | | |
| SKI | 5.51 | 348 | eP | 34 | 52.20 | -4.2X | CTA | 17.00 | 155 | eP | 57 | 00.00 | 9.2X | | 0.5s | 7.00nm | | | | | 4.9mb | | |
| ATB | 17.72 | 148 | Pd | 37 | 36.10 | -1.1 | PCI | 19.31 | 280 | eP | 57 | 27.00 | 7.8X | DMN | 55.73 | 274 | P | 44 | 54.00 | | 0.3 | | |
| ZOBO | 28.76 | 193 | P | 39 | 27.00 | 0.6 | WARB | 24.42 | 207 | iPc | 58 | 03.50 | -7.1X | | 0.5s | 12.00nm | | | | | 5.1mb | | |
| LPB | 29.01 | 193 (P) | | 39 | 37.00 | 8.6X | MBL | 24.71 | 227 | eP | 58 | 15.30 | 1.8 | GKN | 55.79 | 275 | P | 44 | 53.70 | | -0.3 | | |
| CNCB | 29.25 | 193 | P | 39 | 32.00 | 1.2 | BRS | 26.28 | 151 | iPc | 58 | 41.70 | 13.6X | | 0.5s | 13.00nm | | | | | 5.2mb | | |
| FRB | 51.99 | 356 | eP | 42 | 35.00 | -1.1 | FORR | 27.99 | 200 | eP | 58 | 44.00 | 0.4 | VGB | 55.85 | 58 | P | 44 | 54.50 | | 0.5 | | |
| TIC | 55.94 | 90 | P | 43 | 06.00 | 0.2 | CHG | 45.65 | 302 | eP | 01 | 13.50 | 0.1 | DPW | 55.90 | 54 | P | 44 | 54.00 | | -0.4 | | |
| LIC | 56.01 | 90 | P | 43 | 06.40 | 0.1 | KKN | 60.81 | 305 | P | 03 | 04.60 | -1.0 | FHC | 56.79 | 64 | ePd | 45 | 02.20 | | 1.4 | | |
| KIC | 56.26 | 90 | P | 43 | 08.30 | 0.1 | | | | 0.7s | 7.00nm | 4.9mb | | LBFM | 57.71 | 62 | P | 45 | 08.40 | | 0.9 | | |
| YKA | 62.95 | 335 | P | 43 | 50.80 | -2.3 | DMN | 60.88 | 305 | P | 03 | | | | | | | | | | | | |

21d 19h

| | | | | | | | | | | | | | | |
|------|-------|---------|----------|--------|------------------------------------|------------|--------------------|----------|--------|------------------------------------|------------------|----------------|----------|-------|
| PHAM | 62.11 | 67 P | 45 37.90 | 0.6 | | 0.8s | 13.40nm | 4.9mb | TIY | 37.54 | 314 eP | 00 48.50 | -1.0 | |
| TNP | 62.56 | 63 P | 45 40.70 | 0.2 | RRL | 82.80 | 337 P | 47 39.95 | 0.9 | GYA | 38.48 | 294 P | 00 58.60 | 1.1 |
| | 0.8s | 29.41nm | | 5.3mb | LSF | 82.83 | 341 eP | 47 39.10 | 0.2 | BT0 | 40.58 | 317 eP | 01 14.00 | -0.6 |
| FRB | 63.71 | 19 eP | 45 46.00 | -1.4 | | 1.0s | 26.00nm | 5.1mb | WARB | 44.71 | 205 eP | 01 47.20 | -0.8 | |
| MTN | 63.82 | 204 iPc | 45 48.60 | 0.0 | ROB | 83.09 | 336 P | 47 40.02 | -0.3 | GTA | 47.29 | 311 P | 02 07.70 | -0.7 |
| CLC | 63.83 | 65 eP | 45 48.00 | -0.7 | PZZ | 83.10 | 336 P | 47 40.06 | -0.4 | PKI | 57.45 | 294 P | 03 23.80 | -0.2 |
| BW06 | 63.83 | 54 P | 45 49.00 | 0.2 | STV | 83.28 | 336 P | 47 39.75 | -1.6 | | 0.3s | 5.00nm | | 4.8mb |
| | 0.9s | 37.08nm | | 5.3mb | IMI | 83.44 | 336 P | 47 42.11 | 0.0 | KKN | 57.56 | 294 P | 03 24.80 | 0.1 |
| NUR | 64.02 | 335 iP | 45 47.80 | -1.7 | SBF | 83.60 | 336 eP | 47 43.00 | 0.0 | | 0.5s | 4.00nm | | 4.5mb |
| SBH | 64.44 | 66 eP | 45 52.00 | -0.7 | | 1.0s | 25.60nm | 5.1mb | DMN | 57.72 | 294 P | 03 26.00 | 0.2 | |
| DAU | 64.48 | 57 P | 45 53.20 | 0.0 | CAF | 83.96 | 340 eP | 47 45.50 | 0.8 | | 0.5s | 9.00nm | | 4.9mb |
| MWC | 64.61 | 66 eP | 45 53.00 | -0.9 | | 0.8s | 8.00nm | 4.7mb | GKN | 58.13 | 294 P | 03 28.60 | 0.0 | |
| GSC | 64.65 | 65 eP | 45 43.00 | -11.1X | LFF | 84.25 | 341 eP | 47 44.70 | -1.4 | | 0.5s | 15.00nm | | 5.1mb |
| RVR | 65.19 | 66 eP | 45 56.00 | -1.3 | | 1.2s | 32.10nm | 5.1mb | HYB | 64.55 | 283 eP | 04 13.00 | 1.5 | |
| MSU | 65.24 | 59 P | 45 58.50 | 0.6 | LRG | 84.27 | 336 eP | 47 46.70 | 0.5 | GBA | 66.21 | 279 Pd | 04 22.30 | 0.1 |
| RSON | 65.90 | 40 P | 46 01.00 | -0.7 | | 0.8s | 19.80nm | 5.1mb | | 0.8s | 7.30nm | | | 4.6mb |
| TPO | 65.92 | 65 eP | 46 01.00 | -1.1 | LMR | 84.35 | 336 eP | 47 47.10 | 0.5 | INK | 73.01 | 23 eP | 05 02.00 | -0.5 |
| PLM | 65.93 | 66 eP | 46 02.00 | -0.4 | | 1.0s | 20.00nm | 5.0mb | MBC | 77.01 | 14 eP | 05 25.00 | -0.2 | |
| BAR | 66.51 | 67 eP | 46 06.00 | 0.2 | TIC | 122.22 | 334 PKP | 54 08.50 | -0.9 | YKA | 81.46 | 28 P | 05 50.60 | 1.4 |
| NB2 | 66.97 | 341 P | 46 07.10 | -1.3 | KIC | 122.41 | 334 PKP | 54 08.60 | -1.2 | SES | 86.94 | 39 eP | 06 20.00 | 2.9X |
| | 0.6s | 3.70nm | | 4.5mb | LIC | 122.62 | 334 PKP | 54 09.40 | -0.7 | KIC | 144.23 | 304 PKP | 13 08.00 | -0.3 |
| HYB | 67.10 | 271 ePc | 46 10.00 | 0.2 | BMA | 151.05 | 35 ePKPc | 55 07.60 | 6.4X | TIC | 144.29 | 304 PKP | 13 08.00 | -0.4 |
| HFS | 67.22 | 339 eP | 46 08.40 | -1.5 | | S.D. = 0.8 | on 140 of 144 obs. | | LIC | 144.54 | 304 PKP | 13 09.20 | 0.4 | |
| | 0.4s | 12.20nm | | 5.2mb | | | | | | S.D. = 0.8 | on 19 of 21 obs. | | | |
| GLA | 67.38 | 65 eP | 46 11.00 | -0.4 | | | | | | | | | | |
| GLD | 68.28 | 54 P | 46 18.20 | 1.1 | ? FEB 21, 1989 19h 38m 27.66±0.98s | | | | | ? FEB 21, 1989 20h 30m 48.00±5.09s | | | | |
| | 1.2s | 50.51nm | | 5.3mb | 38.117 N ± 8.2km 23.124 E ± 9.1km | | | | | 9.888 S ±27.0km 160.253 E ±67.0km | | | | |
| WB5 | 69.78 | 199 iPd | 46 26.00 | -0.1 | DEPTH = 10.0km (geophysicist) | | | | | DEPTH = 70.4 ± 14.1 km | | | | |
| | | i | 46 47.50 | | GREECE (364) | | | | | 4.2mb (1 obs.) | | | | |
| GBA | 70.57 | 269 Pc | 46 30.10 | -1.0 | ML 2.4 (ATH). | | | | | SOLOMON ISLANDS (193) | | | | |
| | 0.8s | 7.40nm | | 4.6mb | | | | | | | | | | |
| ALQ | 71.01 | 59 eP | 46 33.00 | -0.8 | ATH | 0.49 | 107 ePb | 38 37.20 | -0.4 | HNR | 0.54 | 326 eP | 31 01.00 | -0.4 |
| | 0.9s | 7.35nm | | 4.5mb | | | eSb | 38 44.80 | | | | eS | 31 10.00 | |
| SCH | 72.02 | 23 eP | 46 39.00 | -0.2 | NEO | 1.19 | 4 ePb | 38 50.00 | 0.1 | VSG | 0.83 | 320 eP | 31 05.00 | 0.4 |
| CLL | 75.27 | 336 iPd | 46 56.90 | -1.1 | ITM | 1.33 | 226 ePb | 38 51.90 | -0.4 | CTA | 16.89 | 232 eP | 34 42.00 | 0.6 |
| | 0.6s | 19.00nm | | 5.1mb | VAM | 2.84 | 162 ePn | 39 14.50 | 0.6 | QIS | 22.54 | 240 eP | 35 43.00 | -0.2 |
| SIO | 76.01 | 52 eP | 47 02.60 | 0.1 | | S.D. = 0.8 | on 4 of 4 obs. | | | WB5 | 26.88 | 245 eP | 36 23.70 | -0.6 |
| PRU | 76.01 | 334 eP | 47 02.00 | -0.2 | * FEB 21, 1989 19h 43m 57.98±0.59s | | | | | KNA | 31.22 | 256 eP | 37 02.00 | -0.4 |
| MLR | 76.02 | 325 ePd | 47 02.50 | 0.0 | 36.415 N ±11.1km 66.661 E ± 6.9km | | | | | CHTO | 66.83 | 295 eP | 41 35.00 | 0.1 |
| LNO | 76.15 | 51 eP | 47 03.30 | 0.1 | DEPTH = 33.0km (normol) | | | | | | 1.0s | 2.75nm | | 4.2mb |
| TUL | 76.15 | 51 eP | 47 03.50 | 0.2 | 4.5mb (6 obs.) 4.3Msz (1 obs.) | | | | | GBA | 85.42 | 285 P | 43 20.00 | 0.4 |
| | 1.0s | 18.30nm | | 4.8mb | HINDU KUSH REGION (718) | | | | | | S.D. = 0.6 | on 8 of 8 obs. | | |
| WTS | 76.23 | 339 iP | 47 03.70 | 0.3 | | | | | | | | | | |
| | 0.6s | 14.00nm | | 4.9mb | MAIO | 5.79 | 271 iPnd | 45 23.20 | -0.7 | * FEB 21, 1989 20h 55m 27.85±0.49s | | | | |
| RLO | 76.36 | 51 eP | 47 04.20 | -0.2 | | 0.5s | 6.38nm | 46 27.00 | 4.5mb | 37.498 S ±11.0km 50.877 E ± 6.7km | | | | |
| VVO | 76.62 | 52 eP | 47 05.70 | -0.2 | | | eSn | 46 27.00 | | DEPTH = 10.0km (geophysicist) | | | | |
| KHC | 77.06 | 334 eP | 47 08.50 | 0.4 | QUE | 6.21 | 178 eP | 45 19.50 | -10.5X | 5.1mb (15 obs.) | | | | |
| GRF | 77.22 | 336 ePd | 47 09.50 | 0.5 | | | eS | 47 39.00 | | ATLANTIC-INDIAN RISE (428) | | | | |
| | 0.5s | 24.00nm | | 5.3mb | KSH | 7.96 | 65 P | 45 53.00 | -1.5 | CENTROID, MOMENT TENSOR (HRV) | | | | |
| FVM | 77.26 | 47 P | 47 09.10 | -0.3 | NDI | 11.77 | 128 eP | 46 46.00 | -0.6 | Data Used: GDSN | | | | |
| GAC | 77.28 | 33 eP | 47 09.50 | 0.2 | | | eS | 49 08.00 | | L.P.B.: 12S, 25C | | | | |
| ENN | 77.58 | 339 iP | 47 11.40 | 0.5 | WMO | 17.68 | 59 iPc | 48 03.20 | -0.1 | Centroid Location: | | | | |
| | 0.7s | 9.00nm | | 4.7mb | SHL | 24.11 | 110 iP | 49 12.70 | 0.9 | Origin Time | 20:55:32.2 | 1.0 | | |
| MEM | 77.71 | 339 P | 47 11.80 | 0.2 | GTA | 26.25 | 73 eP | 49 32.50 | 0.6 | Lat 37.62S 0.12 Lon 50.82E 0.12 | | | | |
| ELC | 78.39 | 46 P | 47 15.50 | -0.1 | | Z 16s | 0.36um | 4.0MszX | | Dep 15.0 FIX Half-duration 1.6 | | | | |
| OLY | 78.69 | 49 P | 47 17.20 | -0.1 | | N 10s | 0.33um | | | Moment Tensor; Scale 10**16 Nm | | | | |
| KBA | 78.97 | 333 iPd | 47 19.30 | 0.5 | SUF | 36.18 | 330 eP | 50 59.00 | 0.0 | Mrr=-5.51 0.38 Mtt= 5.26 0.58 | | | | |
| | 0.6s | 12.30nm | | 4.9mb | KJF | 36.29 | 332 eP | 51 02.00 | 2.1 | Mff= 0.25 0.42 Mrt= 6.99 1.28 | | | | |
| | | i | 47 23.40 | | SOD | 38.37 | 336 eP | 51 18.00 | 0.7 | Mrf=-0.77 1.09 Mtf= 0.93 0.40 | | | | |
| CDF | 79.44 | 338 eP | 47 21.10 | -0.1 | HFS | 40.99 | 322 eP | 51 37.90 | -1.1 | Principal Axes: | | | | |
| | 0.7s | 4.40nm | | 4.4mb | | 0.5s | 1.70nm | 4.0mb | | T Val= 8.73 Plg=26 Azm=356 | | | | |
| RBL | 79.48 | 333 P | 47 18.40 | -3.0X | | Z 20s | 0.42um | 4.3Msz | | N 0.35 7 90 | | | | |
| HAU | 80.05 | 338 eP | 47 24.30 | -0.1 | | | LR | 09 16.00 | | P -9.08 63 195 | | | | |
| | 0.6s | 3.60nm | | 4.3mb | NB2 | 42.36 | 323 P | 51 49.00 | -1.3 | Best Double Couple:Mo=8.9*10**16 | | | | |
| LOR | 81.34 | 339 eP | 47 31.10 | -0.1 | | 0.8s | 2.40nm | 4.0mb | | NP1:Strike= 69 Dip=20 Slip=-112 | | | | |
| | 0.8s | 12.00nm | | 4.7mb | DAG | 53.85 | 343 iPd | 53 18.10 | -1.3 | NP2: 273 71 -82 | | | | |
| LBF | 81.58 | 339 eP | 47 32.20 | -0.2 | | 0.7s | 6.16nm | 4.7mb | | | | | | |
| | 0.6s | 4.50nm | | 4.4mb | BNG | 54.38 | 246 ePd | 53 24.30 | 0.2 | AVY | 18.71 | 351 iPd | 59 49.60 | 0.8 |
| SSF | 81.61 | 340 eP | 47 32.80 | 0.2 | | 0.9s | 9.00nm | 4.8mb | | GRM | 20.23 | 275 iPd | 00 09.00 | 3.1X |
| | 0.8s | 12.00nm | | 4.7mb | | | id | 53 29.80 | | | 1.3s | 192.31nm | | 5.3mb |
| ORX | 81.82 | 336 P | 47 34.52 | 0.7 | MBC | 67.55 | 2 eP | 54 52.00 | -0.6 | BFT | 21.25 | 298 iPd | 00 21.00 | 4.5X |
| AVF | 81.91 | 340 eP | 47 34.20 | 0.1 | INK | 74.50 | 8 eP | 55 35.00 | 0.6 | | 1.1s | 63.29nm | | 4.9mb |
| | 0.8s | 10.70nm | | 4.7mb | YKA | 81.43 | 1 P | 56 13.60 | 1.1 | SEK | 21.51 | 288 eP | 00 21.00 | 1.8 |
| SMF | 81.93 | 339 eP | 47 34.40 | 0.2 | FFC | 88.70 | 353 eP | 56 50.00 | 0.9 | | 0.9s | 13.45nm | | 4.3mb |
| | 1.0s | 10.00nm | | 4.6mb | | 1.0s | 11.00nm | 5.1mb | | | | i | 00 24.00 | |
| STJ | 82.04 | 17 eP | 47 35.50 | 0.8 | | S.D. = 1.1 | on 17 of 18 obs. | | | SLR | 22.47 | 295 iPc | 00 27.00 | -1.8 |
| LSD | 82.20 | 337 P | 47 36.98 | 1.0 | | | | | | | 1.2s | 46.88nm | | 4.8mb |
| BOB | 82.21 | 335 P | 47 36.40 | 0.6 | * FEB 21, 1989 19h 53m 50.05±0.95s | | | | | | S | 04 12.00 | | |
| BGF | 82.24 | 340 eP | 47 36.20 | 0.3 | 14.629 N ±12.7km 145.955 E ±12.4km | | | | | FRS | 22.59 | 282 iP | 00 34.00 | 4.3X |
| | 0.6s | 7.20nm | | 4.7mb | DEPTH = 169.1 ± 8.4 km | | | | | | 0.9s | 29.41nm | | 4.8mb |
| LPG | 82.27 | 337 eP | 47 37.30 | 0.9 | 4.8mb (5 obs.) | | | | | BFS | 22.90 | 290 eP | 00 33.00 | 0.0 |
| | 0.7s | 13.20nm | | 4.9mb | MARIANA ISLANDS (216) | | | | | | 1.5s | 166.67nm | | 5.3mb |
| TKL | 82.29 | 44 P | 47 36.00 | -0.3 | | | | | | KSR | 23.40 | 293 iPd | 00 37.60 | -0.3 |
| PGD | 82.35 | 333 P | 47 37.20 | 0.5 | PJG | 1.48 | 226 iPc | 54 21.30 | 0.1 | | 1.2s | 60.00nm | | 5.0mb |
| MAF | 82.62 | 340 eP | 47 38.40 | 0.5 | GUA | 1.48 | 223 iP | 54 21.30 | 0.0 | KIM | 23.48 | 284 iPc | 00 38.00 | -0.6 |
| | 0.6s | 18.90nm | | 5.1mb | | | eS | 54 44.70 | | | 1.2s | 46.88nm | | 4.9mb |
| ICF | 82.64 | 340 eP | 47 38.20 | 0.2 | WB5 | 36.14 | 199 eP | 00 45.20 | 7.5X | SWZ | 23.85 | 288 iPc | 00 42.00 | -0.2 |

| | | | | | | | | | | | | | | |
|------------------------------------|--------|---------|------|----------------|----------------------------------|-------|----------|---------------|----------------|--------------------------------|---------|---------------|---------------|----------------|
| 0.9s 42.02nm 5.0mb | | | | | Centroid Location: | | | | | ALO 82.94 337 ePc 21 19.00 0.3 | | | | |
| BUL | 25.96 | 306 | iPd | 01 00.70 -1.7 | Origin Time 22:08:55.8 0.3 | | | | | 1.0s 27.50nm 5.3mb | | | | |
| PTZ | 28.95 | 318 | iP | 01 28.40 -1.2 | Lat 44.96S 0.04 Lon 78.44W 0.10 | | | | | Z 18s 1.55um 5.4msz | | | | |
| LSZ | 29.90 | 312 | ePd | 01 38.00 -0.2 | Dep 15.0 FIX Half-duration 2.1 | | | | | KIC 83.16 74 Pd 21 21.32 1.3 | | | | |
| NAI | 38.31 | 337 | eP | 02 52.00 1.4 | Moment Tensor: Scale 10**17 Nm | | | | | 1.5s 82.00nm 5.7mb | | | | |
| LWI | 40.54 | 325 | ePc | 03 09.70 0.5 | Mrr=-1.37 0.07 Mtt=1.61 0.07 | | | | | TIC 83.17 74 P 21 21.36 1.3 | | | | |
| BNG | 51.43 | 317 | iPd | 04 35.20 -0.1 | Mff=-0.24 0.09 Mrt=1.85 0.24 | | | | | SLR 83.56 120 iPd 21 22.50 0.3 | | | | |
| | 1.6s | 65.00nm | | 5.3mb | Mrf=0.10 0.19 Mtf=-0.08 0.10 | | | | | 1.0s 165.00nm 6.2mb | | | | |
| | | ic | | 04 42.10 | Principal Axes: | | | | | GLA 83.84 330 eP 21 24.00 0.9 | | | | |
| | | ic | | 06 31.40 | T Val= 2.49 Plg=26 Azm= 1 | | | | | BAR 84.18 329 eP 21 26.00 1.2 | | | | |
| SPA | 52.69 | 180 | e(P) | 04 44.50 0.0 | N -0.23 3 269 | | | | | BFT 84.69 121 iPd 21 29.30 1.3 | | | | |
| | 1.4s | 59.80nm | | 5.3mb | P -2.26 64 172 | | | | | 1.0s 84.00nm 5.9mb | | | | |
| GBA | 56.63 | 31 | Pd | 05 11.00 -2.4 | Best Double Couple:Mo=2.4*10**17 | | | | | PLM 84.85 329 eP 21 29.00 0.7 | | | | |
| | 0.7s | 3.30nm | | 4.5mb | NP1:Strike= 98 Dip=20 Slip=-80 | | | | | TPC 85.23 330 eP 21 32.00 2.0 | | | | |
| PSI | 59.81 | 59 | ePc | 05 26.40 -9.4X | NP2: 268 71 -94 | | | | | TBR 85.32 3 P 21 30.50 0.3 | | | | |
| HYB | 60.52 | 31 | eP | 05 46.00 5.5X | | | | | | RVR 85.62 329 eP 21 32.00 0.1 | | | | |
| KIC | 67.68 | 298 | P | 06 28.00 0.4 | LNV | 11.94 | 31 | eP | 11 44.00 -2.2 | MWC | 86.08 | 328 | eP | 21 35.00 0.6 |
| LIC | 67.79 | 297 | P | 06 28.70 0.5 | CHCH | 12.24 | 34 | eP | 11 50.00 -0.4 | SBB | 86.40 | 329 | eP | 21 36.00 0.1 |
| TIC | 68.08 | 298 | P | 06 30.60 0.6 | TACH | 12.38 | 32 | eP | 11 50.50 -1.7 | GSC | 86.58 | 330 | eP | 21 38.00 1.3 |
| QUE | 68.99 | 15 | eP | 06 36.90 1.3 | SAN | 12.66 | 33 | ePd | 11 53.30 -2.7 | SYP | 87.08 | 327 | eP | 21 41.00 1.7 |
| CHG | 71.99 | 48 | eP | 06 53.70 -0.1 | FCH | 12.92 | 33 | eP | 11 59.00 -0.7 | GOL | 87.14 | 340 | iP | 21 39.80 0.2 |
| DMN | 72.29 | 32 | P | 06 54.90 -0.8 | PEL | 12.93 | 32 | iPc | 11 57.00 -2.6 | | 0.9s | 15.55nm | 5.3mb | |
| | 1.0s | 31.00nm | | 5.4mb | ZON | 15.13 | 35 | eP | 12 25.00 -3.5X | Z | 18s | 0.86um | 5.2msz | |
| PKI | 72.39 | 32 | P | 06 55.10 -1.3 | AIA | 22.33 | 164 | e(P) | 13 58.00 6.4X | | | iP | 21 47.80 25km | |
| GKN | 72.45 | 31 | P | 06 55.40 -1.1 | HJA | 23.86 | 32 | ePc | 14 09.70 2.8X | CLC | 87.32 | 329 | eP | 21 41.00 0.7 |
| | 1.0s | 32.00nm | | 5.4mb | ITB1 | 28.00 | 53 | e(P) | 14 47.30 1.8 | BUL | 87.82 | 116 | iPc | 21 44.00 0.7 |
| KKN | 72.53 | 32 | P | 06 56.20 -0.8 | ARE | 28.58 | 15 | iPc | 14 52.60 1.5 | MSU | 87.93 | 334 | P | 21 44.00 0.6 |
| | 1.0s | 22.00nm | | 5.2mb | CCH | 29.01 | 25 | P | 14 57.70 2.7 | PRI | 88.77 | 327 | iPd | 21 48.90 1.6 |
| WB5 | 73.16 | 102 | iPd | 07 00.20 -0.6 | CNCB | 29.03 | 22 | P | 14 57.00 1.5 | TOO | 89.07 | 214 | eP | 21 47.00 -1.9 |
| MAIO | 73.86 | 7 | eP | 07 05.00 0.5 | LPB | 29.26 | 21 | eP | 14 56.00 -1.4 | PRS | 89.21 | 327 | iPd | 21 50.90 1.7 |
| | | eS | | 16 44.00 | | 1.0s | 80.00nm | 5.4mb | TNP | 89.21 | 331 | eP | 21 50.50 1.0 | |
| TAB | 75.31 | 356 | eP | 07 15.00 2.2 | Z | 24s | 4.65um | 5.0mszX | | 1.0s | 40.00nm | 5.7mb | | |
| LSA | 76.75 | 35 | P | 07 22.20 0.6 | | | i | 15 02.00 21km | | | epP | 21 59.00 27km | | |
| OIS | 76.81 | 106 | iPd | 07 21.90 0.2 | | | LR | 23 22.00 | LLA | 89.29 | 327 | ePd | 21 51.00 1.4 | |
| GYA | 82.40 | 48 | P | 07 52.00 0.4 | ZOBO | 29.51 | 21 | iPc | 15 01.00 1.2 | DAU | 89.40 | 336 | P | 21 50.00 -0.5 |
| VAY | 82.60 | 339 | eP | 07 52.70 0.5 | | 0.9s | 75.69nm | 5.5mb | GAC | 89.83 | 2 | eP | 21 52.00 0.2 | |
| OHR | 82.93 | 338 | eP | 07 54.70 0.7 | | | LR | 23 30.00 | GCC | 90.06 | 327 | ePd | 21 54.70 1.5 | |
| TDS | 83.08 | 334 | P | 07 59.20 4.5X | VAO | 33.70 | 61 | eP | 15 37.70 1.7 | MHC | 90.19 | 327 | iPd | 21 55.70 1.7 |
| SKO | 83.53 | 338 | iP | 08 00.20 3.2X | | | e | 15 45.50 27km | CMB | 90.32 | 328 | iPd | 21 55.60 1.2 | |
| CD2 | 84.10 | 44 | eP | 08 00.80 0.6 | BMA | 35.71 | 64 | eP | 15 54.30 1.2 | KVN | 90.38 | 330 | eP | 21 55.00 0.1 |
| CFR | 84.82 | 344 | eP | 08 09.00 5.7X | | | e | 16 02.10 26km | | | epP | 22 03.00 25km | | |
| MLR | 85.61 | 343 | ePc | 08 07.50 0.0 | BAO | 38.77 | 52 | eP | 16 20.50 1.5 | BKS | 90.89 | 327 | ePd | 21 58.80 1.8 |
| VR1 | 85.79 | 343 | ePd | 08 08.50 0.3 | ATB | 47.21 | 37 | Pc | 17 27.50 0.2 | | 0.8s | 41.00nm | 5.8mb | |
| BZS | 86.83 | 340 | eP | 08 17.00 3.7X | SDV | 53.60 | 10 | eP | 18 15.80 -0.4 | Z | 20s | 1.30um | 5.4msz | |
| CJR1 | 87.39 | 342 | eP | 08 09.00 -7.0X | SJS | 54.35 | 354 | eP | 18 21.90 0.3 | N | 20s | 1.20um | | |
| WMO | 87.56 | 26 | eP | 08 18.00 1.0 | SRA | 54.53 | 353 | iPc | 18 23.50 0.6 | E | 20s | 0.50um | | |
| LZH | 88.13 | 40 | eP | 08 25.00 5.0X | CAR | 55.75 | 14 | eP | 18 30.00 -1.8 | | | e | 22 07.00 26km | |
| GTA | 88.77 | 36 | eP | 08 22.70 -0.3 | POF | 75.76 | 117 | iPd | 20 41.00 1.0 | | | e | 29 16.00 | |
| LJU | 89.35 | 336 | e(P) | 08 25.00 -0.4 | | 1.2s | 54.69nm | 5.5mb | | | e | 32 08.00 | | |
| VOY | 89.55 | 335 | e(P) | 08 24.20 -2.3 | GRM | 77.12 | 124 | iPd | 20 47.80 0.2 | | | eLR | 52 17.00 | |
| KHC | 92.38 | 337 | eP | 08 45.50 6.2X | | 1.0s | 90.00nm | 5.8mb | LSZ | 91.07 | 113 | iP | 22 00.40 1.8 | |
| IMA | 148.05 | 19 | ePKP | 15 14.20 3.1X | PRM | 78.24 | 357 | P | 20 52.60 -0.8 | BW06 | 91.11 | 338 | eP | 21 57.80 -0.4 |
| | 1.3s | 11.80nm | | | JSC | 78.40 | 358 | P | 20 53.50 -0.8 | | 1.6s | 26.32nm | 5.3mb | |
| INK | 149.04 | 3 | ePKP | 15 17.00 4.7X | FRS | 78.87 | 121 | iPd | 20 58.50 1.3 | | | epP | 22 06.00 26km | |
| FBA | 150.42 | 16 | ePKP | 15 19.30 4.8X | | 1.0s | 110.00nm | 5.8mb | ORV | 92.07 | 328 | ePd | 22 03.70 1.3 | |
| YKA | 153.42 | 345 | PKP | 15 29.30 10.3X | KIM | 79.24 | 120 | iPc | 20 58.80 -0.7 | | 0.8s | 6.70nm | | |
| FFC | 154.73 | 322 | ePKP | 15 39.00 18.0X | | 0.9s | 46.22nm | 5.5mb | PTZ | 93.90 | 114 | iPc | 22 12.80 1.2 | |
| | 1.3s | 14.00nm | | | RSCP | 79.93 | 354 | P | 21 02.00 -0.6 | | | i | 22 21.40 27km | |
| EDM | 160.83 | 330 | ePKP | 15 30.00 1.6 | OLY | 80.42 | 350 | P | 21 04.00 -1.2 | BRS | 94.39 | 224 | eP | 22 12.00 -1.7 |
| S.D. = 1.1 on 40 of 57 obs. | | | | | SWZ | 80.68 | 119 | iPd | 21 06.40 -0.8 | BNG | 98.31 | 92 | iPc | 22 33.20 1.7 |
| | | | | | | 0.8s | 59.70nm | 5.7mb | | 0.7s | 15.00nm | 5.6mb | | |
| % FEB 21, 1989 22h 00m 51.64±1.19s | | | | | MEO | 80.90 | 344 | eP | 21 07.00 -0.8 | FRB | 108.17 | 5 | ePd diff | 23 31.00 16.6X |
| 39.970 N ±11.0km 23.243 E ±6.3km | | | | | | 1.7s | 243.20nm | 6.0mb | YKA | 110.41 | 343 | PKP | 27 25.30 0.2 | |
| DEPTH = 10.0km (geophysicist) | | | | | | | e | 21 15.80 28km | LBF | 116.54 | 49 | ePKP | 27 36.30 -1.2 | |
| AEGEAN SEA (365) | | | | | VVO | 80.91 | 346 | e(P) | 21 08.50 0.7 | | 0.8s | 6.70nm | | |
| PAIG | 0.34 | 97 | ePg | 00 58.60 0.0 | SEK | 81.30 | 121 | iPd | 21 11.50 1.0 | SBF | 116.59 | 54 | ePKP | 27 37.40 -0.3 |
| | | eSg | | 01 03.80 | | 1.0s | 100.00nm | 5.8mb | | 0.8s | 9.10nm | | | |
| LIT | 0.59 | 283 | ePg | 01 03.90 0.3 | BLA | 81.31 | 359 | P | 21 10.00 0.1 | LOR | 116.65 | 49 | ePKP | 27 36.00 -1.6 |
| | | eSg | | 01 11.70 | | 1.5s | 115.38nm | 5.7mb | | 1.0s | 4.80nm | | | |
| OUR | 0.67 | 57 | ePg | 01 04.90 -0.1 | SIO | 81.41 | 346 | eP | 21 10.00 -0.4 | LPG | 117.18 | 52 | ePKP | 27 39.10 0.0 |
| | | eSg | | 01 15.70 | TUL | 81.48 | 346 | iPd | 21 05.80 -5.0X | | 0.8s | 5.90nm | | |
| SOH | 0.86 | 6 | ePg | 01 08.50 0.4 | | 1.3s | 73.70nm | 5.6mb | BSF | 118.58 | 50 | ePKP | 27 40.80 -0.6 | |
| | | eSg | | 01 21.10 | Z | 22s | 0.82um | 5.0msz | | 0.8s | 8.00nm | | | |
| GRG | 1.18 | 327 | ePb | 01 12.90 -0.7 | LNO | 81.48 | 346 | iP | 21 10.10 -0.5 | DOU | 118.73 | 47 | PKP | 27 42.30 0.9 |
| KNT | 1.22 | 348 | ePb | 01 14.60 0.3 | RLO | 81.59 | 347 | eP | 21 16.50 5.1X | | | e | 27 49.60 | |
| | | eSb | | 01 33.50 | BFS | 81.80 | 120 | iPd | 21 13.00 0.0 | TOA | 119.12 | 330 | ePKP | 27 42.00 0.1 |
| S.D. = 0.5 on 6 of 6 obs. | | | | | | 1.0s | 220.00nm | 6.1mb | INK | 119.63 | 340 | ePKP | 27 41.00 -1.6 | |
| | | | | | ELC | 81.92 | 352 | P | 21 12.00 -1.0 | MEM | 119.76 | 47 | PKP | 27 43.20 -0.1 |
| FEB 21, 1989 22h 00m 54.76±0.17s | | | | | CVL | 82.06 | 0 | P | 21 11.00 -2.7X | ENN | 119.81 | 47 | ePKP | 27 43.50 0.1 |
| 44.462 S ±4.6km 78.766 W ±5.7km | | | | | PRY | 82.20 | 120 | iPc | 21 15.00 -0.2 | | 0.9s | 16.00nm | | |
| DEPTH = 25.6km (10 depth phases) | | | | | | 0.7s | 20.00nm | 5.3mb | PMR | 119.87 | 329 | ePKP | 27 41.80 -1.4 | |
| 5.6mb (24 obs.) 5.3msz (6 obs.) | | | | | KSR | 82.61 | 119 | iPd | 21 17.40 0.1 | | 1.4s | 23.30nm | | |
| OFF COAST OF SOUTHERN CHILE (143) | | | | | | 0.7s | 35.00nm | 5.6mb | WTS | 120.96 | 46 | ePKP | 27 46.00 0.4 | |
| CENTROID, MOMENT TENSOR (HRV) | | | | | FVM | 82.74 | 351 | P | 21 17.00 -0.3 | | 1.0s | 20.00nm | | |
| Data Used: GDSN | | | | | LIC | 82.87 | 74 | Pd | 21 19.84 1.3 | TRI | 121.34 | 55 | iPKPc | 27 46.40 -0.1 |
| L.P.B.: 14S, 29C | | | | | | 1.2s | 110.00nm | 5.8mb | | | i | | 27 54.50 | |

| | | | | | | | | | | | | | | | |
|--|--|--|--|---------------------------------|--|--|--|-------|--|--|--|-------------------------------------|--|--|--|
| | | | | SPAIN | | | | (377) | | | | KRA | | | |
| | | | | MG 3.0 (MDD). Felt (III) in the | | | | | | | | 0.78 135 iPgc 55 32.90 -0.6 | | | |
| | | | | Totano area. | | | | | | | | iSg 55 42.50 | | | |
| | | | | | | | | | | | | iPc 55 45.80 -1.2 | | | |
| | | | | | | | | | | | | iSg 56 04.50 | | | |
| | | | | | | | | | | | | ePn 55 49.40 0.1 | | | |
| | | | | | | | | | | | | 0.7s 74.00nm | | | |
| | | | | | | | | | | | | iPg 55 52.10 | | | |
| | | | | | | | | | | | | iS 56 15.40 | | | |
| | | | | | | | | | | | | i(Pg) 56 09.50 6.4X | | | |
| | | | | | | | | | | | | i(Sg) 56 40.00 | | | |
| | | | | | | | | | | | | eP 56 04.80 1.5 | | | |
| | | | | | | | | | | | | i(Pn) 56 08.50 4.0X | | | |
| | | | | | | | | | | | | i(Sg) 56 51.20 | | | |
| | | | | | | | | | | | | ePg 56 07.50 1.4 | | | |
| | | | | | | | | | | | | iSg 56 42.30 | | | |
| | | | | | | | | | | | | Pg 56 10.50 4.2X | | | |
| | | | | | | | | | | | | e 56 30.50 | | | |
| | | | | | | | | | | | | Sg 56 47.00 | | | |
| | | | | | | | | | | | | ePg 56 17.00 6.4X | | | |
| | | | | | | | | | | | | iSg 57 00.00 | | | |
| | | | | | | | | | | | | ePg 56 17.20 -1.7 | | | |
| | | | | | | | | | | | | e 56 25.50 | | | |
| | | | | | | | | | | | | ePg 56 31.00 11.5X | | | |
| | | | | | | | | | | | | eSg 57 26.00 | | | |
| | | | | | | | | | | | | ePg 56 52.00 20.4X | | | |
| | | | | | | | | | | | | eSg 57 49.00 | | | |
| | | | | | | | | | | | | ePg 56 52.00 15.0X | | | |
| | | | | | | | | | | | | eSg 57 58.00 | | | |
| | | | | | | | | | | | | iPgdc 56 50.10 12.3X | | | |
| | | | | | | | | | | | | i 57 57.20 | | | |
| | | | | | | | | | | | | S.D. = 1.5 on 7 of 15 obs. | | | |
| | | | | | | | | | | | | * FEB 22, 1989 03h 48m 59.88±0.74s | | | |
| | | | | | | | | | | | | 42.068 N ± 8.7km 139.515 E ± 16.8km | | | |
| | | | | | | | | | | | | DEPTH = 33.0km (normal) | | | |
| | | | | | | | | | | | | 4.8mb (4 obs.) | | | |
| | | | | | | | | | | | | HOKKAIDO, JAPAN REGION (224) | | | |
| | | | | | | | | | | | | MAT 5.61 191 iPd 50 23.30 0.1 | | | |
| | | | | | | | | | | | | 0.7s 17.12nm 4.7mb | | | |
| | | | | | | | | | | | | (S) 51 23.00 | | | |
| | | | | | | | | | | | | KKN 45.96 270 P 57 21.70 -0.1 | | | |
| | | | | | | | | | | | | GKN 46.33 271 P 57 24.40 -0.2 | | | |
| | | | | | | | | | | | | INK 50.63 29 eP 57 57.00 -0.2 | | | |
| | | | | | | | | | | | | KJF 61.37 332 eP 59 15.00 0.6 | | | |
| | | | | | | | | | | | | SUF 62.85 332 iP 59 24.70 0.4 | | | |
| | | | | | | | | | | | | 0.3s 3.50nm 5.0mb | | | |
| | | | | | | | | | | | | NUR 64.84 330 iP 59 37.30 0.0 | | | |
| | | | | | | | | | | | | HFS 68.91 334 eP 00 02.60 -0.5 | | | |
| | | | | | | | | | | | | 0.3s 3.50nm 4.9mb | | | |
| | | | | | | | | | | | | NB2 68.99 336 P 00 03.60 0.0 | | | |
| | | | | | | | | | | | | 0.5s 2.10nm 4.5mb | | | |
| | | | | | | | | | | | | S.D. = 0.4 on 9 of 9 obs. | | | |
| | | | | | | | | | | | | & FEB 22, 1989 04h 19m 53.20s | | | |
| | | | | | | | | | | | | 36.907 N 121.363 W | | | |
| | | | | | | | | | | | | DEPTH = 6.0km | | | |
| | | | | | | | | | | | | CENTRAL CALIFORNIA (39) | | | |
| | | | | | | | | | | | | <BRK>. ML 2.9 (BRK). Small | | | |
| | | | | | | | | | | | | foreshock 1.9 seconds earlier. | | | |
| | | | | | | | | | | | | SAO 0.16 205 iPd 19 57.30 0.8 | | | |
| | | | | | | | | | | | | LLA 0.44 131 iPd 20 01.70 -0.4 | | | |
| | | | | | | | | | | | | ARN 0.46 343 iPd 20 02.50 0.0 | | | |
| | | | | | | | | | | | | MHC 0.49 333 iPd 20 03.00 0.0 | | | |
| | | | | | | | | | | | | GCC 0.52 284 iPc 20 03.20 -0.5 | | | |
| | | | | | | | | | | | | iS 20 11.00 | | | |
| | | | | | | | | | | | | PRS 0.57 181 iPd 20 04.30 -0.4 | | | |
| | | | | | | | | | | | | PRI 0.95 143 ePc 20 12.60 0.9 | | | |
| | | | | | | | | | | | | PCC 1.01 306 iPc 20 12.00 -0.6 | | | |
| | | | | | | | | | | | | BKS 1.19 325 iPc 20 15.10 -0.7 | | | |
| | | | | | | | | | | | | eS 20 35.10 | | | |
| | | | | | | | | | | | | BRK 1.20 324 ePc 20 15.80 -0.1 | | | |
| | | | | | | | | | | | | ZSP 1.26 3 | | | |

22d 05h

ASS 0.26 323 Pc 03 38.70 0.1
eSg 03 42.30
CIO 0.39 30 iPg 03 40.88 0.0
iSg 03 46.65
MNS 0.50 197 P 03 43.00 -0.1
eSg 03 50.50
ARV 0.64 4 P 03 45.70 -0.1
eSg 03 55.60
SDI 1.35 149 P 03 58.00 0.2
S.D. = 0.2 on 5 of 5 obs.

FEB 22, 1989 05h 35m 12.18 ± 0.96s
40.552 N ± 8.0km 20.763 E ± 10.9km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)

KBN 0.08 29 iPg 35 15.30 0.7
LSK 0.42 197 iPg 35 21.20 0.4
OHR 0.56 3 iPg 35 24.00 0.4
eSg 35 32.60
TPE 0.63 246 ePg 35 24.00 -0.8
BERA 0.64 284 ePg 35 25.50 0.6
SKO 1.51 20 ePn 35 38.00 -1.2
eSn 36 03.00
S.D. = 1.0 on 6 of 6 obs.

* FEB 22, 1989 05h 54m 25.90 ± 0.52s
5.994 S ± 8.4km 127.925 E ± 16.6km
DEPTH = 407.2 ± 8.2 km
4.7mb (7 obs.)
BANDA SEA (280)

AAI 2.31 7 ePc 55 24.60 -0.3
eS 56 06.20
MTN 7.51 155 iPd 56 16.70 0.5
eS 57 49.00
KNA 9.73 175 eP 56 41.00 -0.8
eS 58 38.00
WRA 15.20 156 Pd 57 41.30 -1.1
0.6s 41.30nm 5.1mb
MBL 16.99 207 eP 58 00.20 -0.5
OIS 18.39 143 eP 58 15.00 0.3
i 58 17.50
eS 02 21.00
WARB 20.11 183 iPc 58 24.70 -6.8X
0.4s 12.00nm 4.7mb
MEKA 22.38 203 iPd 58 54.70 1.8
FORR 24.73 180 eP 59 14.00 -0.2
PSI 30.22 286 ePc 00 03.00 0.0
0.6s 20.50nm 4.6mb
CHG 37.73 311 eP 01 07.00 0.7
LZH 47.57 333 eP 02 24.50 -0.1
1.5s 66.00nm 4.8mb
PKI 52.91 311 P 03 04.00 -0.8
0.5s 10.00nm 4.4mb
KKN 53.13 311 P 03 06.70 0.5
0.7s 19.00nm 4.5mb
DMN 53.16 311 P 03 05.80 -0.7
GKN 53.72 311 P 03 09.80 -0.6
0.7s 30.00nm 4.7mb
YKA 107.75 26 PKP 12 07.80 1.3
ZOBO 152.77 145 ePKP 13 20.00 -10.5X
e 15 25.00
S.D. = 0.9 on 16 of 18 obs.

FEB 22, 1989 06h 24m 59.07 ± 0.60s
37.311 N ± 5.0km 120.133 W ± 5.2km
DEPTH = 5.0km (geophysicist)
CENTRAL CALIFORNIA (39)
ML 2.6 (BRK).

FRI 0.47 133 iPd 25 08.30 -0.1
iS 25 15.10
CMB 0.75 345 iPc 25 13.30 -0.8
iS 25 24.00
LLA 0.95 223 eP 25 18.10 0.5
iS 25 30.60
ARN 1.12 272 eP 25 20.50 0.0
SAO 1.18 243 iPd 25 21.70 0.1
MHC 1.20 272 iPc 25 22.70 0.7
iS 25 33.30
PRI 1.24 200 eP 25 22.40 -0.3
PRS 1.39 226 iPc 25 24.50 -0.7
KVN 2.36 42 e(P) 25 40.00 0.7
S.D. = 0.6 on 9 of 9 obs.

FEB 22, 1989 06h 42m 45.38 ± 0.46s

32.462 N ± 5.7km 137.992 E ± 3.8km
DEPTH = 340.9 ± 3.4 km
5.0mb (42 obs.)
SOUTH OF HONSHU, JAPAN (211)

WKYJ 2.67 312 iP+ 43 43.20 1.7
eS 44 27.50
IIDJ 3.01 359 P 43 45.20 0.6
S 44 33.10
TKSJ 3.64 296 iP+ 43 52.30 1.7
eS 44 43.80
CHJJ 3.67 13 P 43 50.70 -0.2
S 44 41.00
MAT 4.07 2 iPd 43 55.00 -0.1
iS 44 49.30
MTMJ 4.12 358 iPd 43 56.00 0.4
KAKJ 4.15 25 P 43 53.00 -2.8
S 44 45.00
YONJ 4.65 307 iP+ 44 02.90 1.7
S 45 04.90
NIJ 4.84 10 P 44 01.90 -1.4
S 45 01.70
SHK 4.90 296 iPc 44 05.40 1.4
1.0s 800.00nm
YAMJ 5.94 16 eP 44 14.20 -1.5
eS 45 24.50
SHNJ 6.00 288 P 44 18.30 1.9
eS 45 33.10
KUMJ 6.05 273 P 44 19.50 2.4
eS 45 36.80
KAGJ 6.18 260 P 44 20.80 2.3
eS 45 36.70
OFUJ 7.25 23 eP 44 28.80 -2.3
eS 45 48.50
MRRJ 10.24 13 eP 45 05.90 -1.2
eS 46 58.10
HOJ 10.76 21 eP 45 12.40 -0.9
eS 47 09.20
KUSJ 11.87 25 P 45 26.30 -0.4
eS 47 32.30
ASAJ 12.19 16 P 45 29.10 -1.5
S 47 40.80
MDJ 13.79 334 iPd 45 47.50 -2.1
SSE 14.36 269 P 45 54.00 -2.0
1.0s 24.00nm 4.5mb
i 46 17.00
eS 48 36.00
DL2 14.76 300 P 46 00.00 -0.3
SNY 14.80 313 iPd 46 00.00 -0.7
CN2 15.00 323 Pd 46 01.00 -1.8
ScP 53 47.00
TIA 17.63 288 eP 46 29.40 -1.0
BJI 19.12 299 eP 46 45.00 -0.3
4.0s 0.50nm 2.2mb X
eS 48 12.00
eS 50 04.00
eScP 53 56.50
WHN 20.24 271 P 46 57.80 1.5
1.0s 0.06nm 1.9mb X
TIY 21.53 291 iPc 47 09.60 0.8
E 12s 0.40um
eS 50 45.50
HHC 22.73 299 Pd 47 20.30 0.1
BTO 23.83 298 P 47 30.00 -0.3
XAN 24.33 282 Pd 47 34.90 0.0
LZH 28.36 287 eP 48 10.00 -1.2
2.0s 82.00nm 4.7mb
CD2 29.10 276 P 48 16.40 -1.2
GTA 31.50 294 Pd 48 37.70 -0.8
S 53 19.20
ScP 54 32.40
ScS 58 28.80
CHG 37.52 258 eP 49 29.50 0.2
LSA 39.97 279 P 49 50.70 0.9
WMQ 40.58 301 iPd 49 55.00 0.7
S 55 39.00
SHL 40.66 272 iP 49 54.80 -0.4
PKI 45.42 278 P 50 33.00 -0.4
KKN 45.45 279 P 50 33.40 -0.1
DMN 45.66 278 P 50 35.10 -0.1
GKN 45.92 279 P 50 37.00 -0.1
BRW 51.70 22 iP 51 21.40 1.3
NDI 51.85 283 iPd 51 21.50 -0.2
IMA 52.04 29 eP 51 24.70 1.9
WB5 52.16 184 eP 51 22.00 -2.0
e 52 36.80
WRA 52.23 184 Pc 51 22.10 -2.3

0.9s 10.30nm 4.2mb
OIS 52.74 178 eP 51 26.00 -2.2
CTA 52.85 170 iPd 51 27.60 -1.5
1.1s 36.71nm 4.6mb
HYB 55.30 269 eP 51 46.50 -0.4
0.8s 34.60nm 4.8mb
GBA 58.07 266 Pd 52 03.20 -2.9
0.9s 29.10nm 4.7mb
QUE 59.67 288 iPd 52 16.90 -0.2
INK 59.72 25 eP 52 17.00 0.3
BRS 61.16 165 iPd 52 21.20 -5.5X
MBC 61.68 15 eP 52 29.00 -0.7
MAIO 63.19 298 eP 52 40.00 -0.1
ALE 64.82 3 eP 52 50.00 0.1
1.0s 29.00nm 4.9mb
BWA 67.25 171 eP 53 05.20 -0.5
SOD 68.08 337 iP 53 10.30 0.0
YKA 69.16 28 P 53 17.30 0.3
KJF 69.38 334 iP 53 18.20 -0.1
0.7s 48.10nm 5.3mb
SUF 70.78 333 iP 53 26.20 -0.5
0.8s 57.70nm 5.4mb
NUR 72.63 332 iP 53 37.20 -0.3
0.7s 37.40nm 5.2mb
UPP 75.79 333 iP 53 55.40 0.0
LBFM 76.13 50 eP 53 59.10 1.1
HFS 77.05 335 eP 54 02.20 -0.2
0.6s 42.50nm 5.4mb
Z 18s 0.39um 4.8msz
LR 26 51.00
NB2 77.27 336 P 54 02.80 -0.9
0.8s 42.10nm 5.3mb
ORV 77.31 51 ePc 54 10.10 5.8X
NRA0 77.38 333 iP 54 04.20 0.0
BKS 77.70 53 eP 54 07.40 1.0
0.9s 25.00nm 5.0mb
MHC 78.38 53 ePc 54 10.60 0.3
ARN 78.45 53 eP 54 11.50 0.9
CMB 78.86 52 iPc 54 13.10 0.4
FFC 79.07 31 eP 54 14.50 1.1
1.0s 12.00nm 4.7mb
PRS 79.10 54 iPc 54 14.50 0.5
LLA 79.24 53 ePc 54 15.20 0.5
LRM 79.40 42 eP 54 16.70 1.0
PRI 79.68 54 ePc 54 18.10 0.9
KVN 79.81 50 eP 54 18.90 1.0
FRI 79.87 53 iPc 54 19.20 1.2
BGMT 79.98 42 eP 54 19.90 1.2
BBTK 80.22 311 iPd 54 21.00 1.1
HPI 80.26 44 eP 54 22.00 1.7
TNP 80.92 51 eP 54 24.50 0.8
1.0s 25.00nm 5.0mb
MLR 81.00 319 ePd 54 24.00 0.1
SPC 81.67 324 eP 54 28.40 1.0
FRB 81.83 12 eP 54 28.00 0.4
CLC 81.94 53 eP 54 29.00 0.1
SBB 82.42 54 eP 54 31.00 -0.3
KSP 82.45 327 ePd 54 32.00 0.9
1.0s 83.00nm 5.5mb
ic 54 32.60
BW06 82.89 43 eP 54 34.50 0.7
1.0s 4.50nm 4.3mb
DAU 83.33 46 eP 54 37.70 1.6
BRG 83.49 328 iP 54 36.60 0.3
0.6s 40.00nm 5.4mb
CLL 83.59 329 iPd 54 36.90 0.1
1.2s 80.00nm 5.4mb
ELL 83.83 310 eP 54 38.50 0.0
PLM 83.83 54 eP 54 32.90 -5.7X
PLM 83.83 54 eP 54 39.00 0.4
PRU 83.85 327 iPc 54 39.20 1.1
1.0s 21.70nm 4.9mb
e 54 43.50
ZST 83.88 325 eP 54 39.00 0.7
MSU 83.90 48 eP 54 40.40 1.5
TPC 83.96 53 eP 54 39.00 -0.1
BAR 84.35 55 eP 54 41.00 0.0
MOX 84.68 329 eP 54 42.50 0.2
1.4s 21.00nm 4.8mb
e 58 05.00
RSON 85.35 30 eP 54 45.50 -0.1
1.0s 4.00nm 4.2mb
GLA 85.40 54 eP 54 47.00 0.8
VAY 85.53 317 eP 54 47.00 0.4
GRF 85.55 329 eP 54 47.30 0.7
1.1s 30.00nm 5.1mb
SKO 85.75 318 eP 54 47.50 -0.2

| | | | | | | |
|-------------------------------------|-------|---------|-----|----|-------|--------|
| LOR | 4.98 | 304 | Pn | 10 | 17.90 | -0.6 |
| KHC | 5.11 | 28 | eP | 10 | 26.20 | 5.9X |
| | | | e | 10 | 54.50 | |
| BGF | 5.33 | 293 | Pn | 10 | 23.80 | 0.3 |
| CAF | 5.62 | 275 | Pn | 10 | 27.50 | -0.1 |
| TCF | 5.68 | 289 | Pn | 10 | 28.10 | -0.4 |
| S.D. = 0.8 on 50 of 52 obs. | | | | | | |
| ? FEB 22, 1989 07h 55m 02.38±15.24s | | | | | | |
| 43.230 N ±100.0km 18.825 E ±15.1km | | | | | | |
| DEPTH = 10.0km (geophysicist) | | | | | | |
| YUGOSLAVIA (383) | | | | | | |
| MD 2.4 (TTG). | | | | | | |
| BRY | 0.39 | 212 | ePg | 55 | 09.50 | -0.9 |
| | | | eSg | 55 | 16.20 | |
| NKY | 0.44 | 163 | ePg | 55 | 11.00 | -0.3 |
| | | | eSg | 55 | 18.60 | |
| HCY | 0.82 | 197 | ePg | 55 | 19.10 | 0.9 |
| | | | eSg | 55 | 31.50 | |
| TTG | 0.86 | 158 | ePg | 55 | 18.50 | -0.5 |
| | | | eSg | 55 | 32.00 | |
| BDV | 0.95 | 180 | ePg | 55 | 21.00 | 0.6 |
| | | | eSg | 55 | 35.00 | |
| S.D. = 1.0 on 5 of 5 obs. | | | | | | |
| * FEB 22, 1989 08h 25m 20.62±0.93s | | | | | | |
| 9.573 S ±13.8km 117.268 E ±12.0km | | | | | | |
| DEPTH = 33.0km (normol) | | | | | | |
| 4.6mb (3 obs.) | | | | | | |
| SUMBAWA ISLAND REGION (285) | | | | | | |
| KHKI | 2.03 | 306 | ePd | 25 | 53.60 | 0.4 |
| | | | eS | 26 | 16.00 | |
| MBL | 11.78 | 168 | eP | 28 | 20.70 | 11.2X |
| | 0.3s | 10.00nm | | | | |
| | | | eS | 30 | 37.00 | |
| KNA | 12.79 | 120 | eP | 28 | 24.00 | 1.1 |
| | | | eS | 30 | 32.00 | |
| NANU | 13.02 | 187 | iPc | 28 | 15.60 | -10.4X |
| | 0.3s | 9.00nm | | | | |
| | | | eS | 30 | 46.00 | |
| MTN | 13.98 | 105 | eP | 28 | 35.00 | -3.7X |
| | | | eS | 30 | 53.00 | |
| MEKA | 16.99 | 176 | eP | 29 | 18.50 | 1.0 |
| | | | eS | 32 | 40.00 | |
| WARB | 18.76 | 153 | iPd | 29 | 40.50 | 1.1 |
| | 0.5s | 20.00nm | | | | 4.6mb |
| WB5 | 19.44 | 124 | eP | 29 | 46.20 | -1.3 |
| | | | eS | 33 | 12.00 | |
| WRA | 19.45 | 124 | Pd | 29 | 46.80 | -0.8 |
| | 0.5s | 8.20nm | | | | 4.3mb |
| BAL | 20.93 | 181 | eP | 30 | 02.50 | -0.6 |
| COOL | 21.51 | 171 | eP | 30 | 20.40 | 11.5X |
| | 0.4s | 7.00nm | | | | |
| | | | eS | 34 | 26.00 | |
| MUN | 22.32 | 182 | eP | 30 | 15.00 | -1.9 |
| NWAO | 23.24 | 180 | eP | 30 | 34.00 | 8.0X |
| FORR | 23.45 | 156 | eP | 30 | 29.00 | 1.0 |
| OIS | 24.14 | 119 | eP | 30 | 34.00 | -0.8 |
| | 0.6s | 26.00nm | | | | 4.9mb |
| | | | e | 31 | 15.00 | |
| BRS | 37.87 | 123 | iPd | 32 | 37.20 | 0.8 |
| | | | i | 33 | 13.20 | |
| S.D. = 1.2 on 11 of 16 obs. | | | | | | |
| & FEB 22, 1989 08h 26m 27.87s | | | | | | |
| 61.347 N 150.307 W | | | | | | |
| DEPTH = 46.6km | | | | | | |
| SOUTHERN ALASKA (2) | | | | | | |
| <AGS-P>. ML 3.3 (PMR). Felt | | | | | | |
| (11) at Anchorage. | | | | | | |
| PWA | 0.37 | 34 | iP | 26 | 36.90 | -0.5 |
| PMS | 0.37 | 106 | iPd | 26 | 37.50 | -0.1 |
| PLRM | 0.62 | 66 | Pn | 26 | 39.72 | -0.7 |
| | | | eS | 26 | 49.61 | |
| PMR | 0.62 | 66 | iPc | 26 | 39.80 | -0.6 |
| PME | 0.67 | 65 | Pn | 26 | 40.66 | -0.6 |
| NKA | 0.76 | 217 | iP | 26 | 43.44 | 1.1 |
| GHO | 0.79 | 57 | Pn | 26 | 42.18 | -0.7 |
| | | | eS | 26 | 53.75 | |
| CGLM | 0.82 | 268 | iP | 26 | 42.63 | -0.7 |
| SLKM | 0.84 | 177 | iP | 26 | 42.89 | -0.7 |
| | | | eS | 26 | 54.54 | |
| SPU | 0.86 | 260 | iP | 26 | 43.12 | -0.7 |
| | | | eS | 26 | 55.07 | |

22d 08h

| | | | | | | |
|--------------------|-------|-----|-----|----|-------|------|
| KNK | 0.89 | 85 | iP | 26 | 44.02 | -0.2 |
| | | | eS | 26 | 57.35 | |
| CRP | 0.90 | 266 | iP | 26 | 43.78 | -0.6 |
| | | | eS | 26 | 56.54 | |
| SML | 1.05 | 63 | iP | 26 | 45.79 | -0.7 |
| | | | eS | 27 | 00.30 | |
| RDT | 1.28 | 234 | iP | 26 | 49.00 | -0.8 |
| | | | eS | 27 | 06.01 | |
| SEW | 1.32 | 161 | eP | 26 | 49.58 | -0.5 |
| NNL | 1.40 | 201 | eP | 26 | 51.85 | 0.6 |
| KNIM | 1.61 | 127 | eP | 26 | 52.35 | -1.9 |
| GLI | 1.63 | 105 | iP | 26 | 52.95 | -1.6 |
| | | | eS | 27 | 13.96 | |
| ILIM | 1.82 | 227 | iP | 26 | 56.92 | -0.4 |
| VZW | 1.84 | 97 | eP | 26 | 56.39 | -1.2 |
| CNPM | 1.88 | 195 | Pn | 26 | 57.27 | -0.9 |
| | | | eS | 27 | 21.85 | |
| MTU | 1.89 | 135 | iP | 26 | 56.74 | -1.5 |
| VLZ | 1.93 | 95 | iP | 26 | 57.66 | -1.2 |
| FID | 1.96 | 106 | eP | 26 | 57.25 | -2.0 |
| HIN | 2.09 | 115 | eP | 26 | 59.85 | -1.3 |
| TOA | 2.11 | 67 | iPc | 27 | 01.20 | -0.2 |
| KLU | 2.11 | 84 | iP | 27 | 00.15 | -1.4 |
| CVA | 2.36 | 108 | eP | 27 | 07.54 | 2.6 |
| MCK | 2.48 | 14 | eP | 27 | 06.20 | -0.5 |
| SVW | 2.58 | 267 | eP | 27 | 06.50 | -1.7 |
| SGAM | 2.63 | 107 | eP | 27 | 06.53 | -2.3 |
| RAGM | 2.92 | 107 | eP | 27 | 13.39 | 0.4 |
| TTA | 3.11 | 303 | eP | 27 | 13.90 | -1.9 |
| GLB | 3.13 | 85 | eP | 27 | 13.81 | -2.1 |
| HMT | 3.13 | 106 | eP | 27 | 13.79 | -2.1 |
| FBA | 3.74 | 17 | eP | 27 | 23.00 | -1.6 |
| KDC | 3.78 | 198 | eP | 27 | 24.40 | -0.7 |
| IMA | 4.97 | 344 | eP | 27 | 40.00 | -2.0 |
| DWY | 5.69 | 57 | P | 27 | 48.00 | -4.1 |
| INK | 9.96 | 38 | eP | 28 | 47.00 | -4.1 |
| YKA | 16.72 | 70 | P | 30 | 20.30 | 0.4 |
| 41 obs. associated | | | | | | |

* FEB 22, 1989 08h 33m 06.18±0.88s
43.092 N ±10.7km 41.427 E ±10.7km

DEPTH = 33.0km (normal)

4.2mb (4 obs.)

WESTERN CAUCASUS (362)

| | | | | | | |
|-----------------------------|-------|---------|------|----|-------|--------|
| KVT | 4.48 | 245 | ePn | 34 | 14.40 | 0.8 |
| MLR | 11.36 | 288 | ePc | 35 | 46.50 | -2.7 |
| OHR | 15.44 | 270 | e(P) | 36 | 50.70 | 7.6X |
| KRA | 16.30 | 303 | eP | 36 | 50.00 | -4.0X |
| KSP | 18.76 | 303 | ePd | 37 | 25.60 | 1.0 |
| KHC | 20.16 | 297 | Pd | 37 | 41.30 | 0.9 |
| KBA | 20.18 | 291 | i(P) | 37 | 41.00 | 0.3 |
| | 0.8s | 6.20nm | | | 4.0mb | |
| | | | i | 37 | 44.90 | |
| NUR | 20.18 | 336 | eP | 37 | 39.00 | -1.4 |
| CLL | 20.89 | 303 | eP | 37 | 48.00 | 0.3 |
| | 1.1s | 18.00nm | | | 4.4mb | |
| SUF | 21.60 | 341 | iP | 37 | 54.60 | -0.3 |
| | 0.8s | 14.20nm | | | 4.4mb | |
| KJF | 22.55 | 344 | eP | 38 | 04.00 | -0.3 |
| APO | 24.09 | 326 | eP | 38 | 19.20 | -0.1 |
| | 0.6s | 2.60nm | | | 3.9mb | |
| SOD | 25.61 | 347 | iP | 38 | 35.50 | 1.8 |
| KEV | 27.74 | 349 | eP | 38 | 39.00 | -14.2X |
| CHG | 53.78 | 98 | eP | 42 | 27.00 | -0.8 |
| TIC | 54.57 | 242 | P | 42 | 33.40 | -0.2 |
| LIC | 54.90 | 242 | Pd | 42 | 36.00 | 0.0 |
| FRB | 60.11 | 331 | eP | 43 | 12.00 | -0.1 |
| MBC | 60.31 | 355 | eP | 43 | 14.00 | 0.7 |
| S.D. = 1.1 on 16 of 19 obs. | | | | | | |

* FEB 22, 1989 08h 52m 49.67±1.48s
40.005 N ±10.8km 24.351 E ± 8.1km

DEPTH = 10.0km (geophysicist)

AEGEAN SEA (365)

ML 2.7 (THE).

| | | | | | | |
|------|------|-----|-----|----|-------|------|
| OUR | 0.43 | 319 | ePg | 52 | 58.20 | -0.3 |
| | | | eSg | 53 | 04.10 | |
| PAIG | 0.52 | 262 | ePg | 52 | 59.80 | -0.4 |
| | | | eSg | 53 | 07.10 | |
| PLG | 0.79 | 298 | ePb | 53 | 05.00 | 0.0 |
| SOH | 1.12 | 317 | ePb | 53 | 11.40 | 0.8 |
| THE | 1.23 | 301 | ePb | 53 | 13.00 | 0.5 |
| SRS | 1.25 | 333 | ePb | 53 | 12.32 | -0.6 |
| | | | eSb | 53 | 32.80 | |
| LIT | 1.43 | 274 | ePb | 53 | 16.00 | 0.3 |

| | | | | | | |
|----------------------------|------|-----|-----|----|-------|------|
| RDO | 1.45 | 38 | ePb | 53 | 16.00 | 0.0 |
| GRG | 1.76 | 303 | ePb | 53 | 20.30 | -0.2 |
| VAY | 1.89 | 315 | ePn | 53 | 26.20 | 4.0X |
| KZN | 2.00 | 279 | ePg | 53 | 33.00 | 9.0X |
| S.D. = 0.5 on 9 of 11 obs. | | | | | | |

% FEB 22, 1989 09h 01m 47.31±0.81s
40.362 N ± 7.2km 23.351 E ± 6.9km

DEPTH = 10.0km (geophysicist)

GREECE (364)

ML 1.4 (THE).

| | | | | | | |
|---------------------------|------|-----|-----|----|-------|------|
| SOH | 0.46 | 0 | ePg | 01 | 55.90 | -0.8 |
| | | | eSg | 02 | 01.80 | |
| OUR | 0.48 | 93 | ePg | 01 | 57.50 | 0.4 |
| | | | eSg | 02 | 05.10 | |
| PAIG | 0.50 | 150 | ePg | 01 | 57.34 | -0.2 |
| | | | eSg | 02 | 06.90 | |
| LIT | 0.71 | 249 | ePg | 02 | 00.90 | -0.4 |
| GRG | 0.93 | 310 | ePg | 02 | 06.10 | 0.9 |
| S.D. = 0.9 on 5 of 5 obs. | | | | | | |

% FEB 22, 1989 09h 08m 01.49±0.61s
44.612 N ± 8.7km 9.967 E ± 9.7km

DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)

| | | | | | | |
|---------------------------|------|-----|-----|----|-------|------|
| BOB | 0.40 | 293 | P | 08 | 09.30 | -0.4 |
| | | | eSg | 08 | 16.20 | |
| MME | 0.67 | 128 | Pc | 08 | 15.20 | 0.2 |
| | | | eSg | 08 | 25.00 | |
| BDI | 0.71 | 140 | P | 08 | 15.20 | -0.4 |
| | | | eSg | 08 | 26.00 | |
| PII | 0.98 | 156 | P | 08 | 20.30 | 0.3 |
| | | | eSg | 08 | 33.80 | |
| MDI | 1.18 | 351 | Pc | 08 | 23.00 | -0.5 |
| | | | eSg | 08 | 40.00 | |
| VAI | 1.51 | 326 | P | 08 | 29.50 | 0.9 |
| | | | eSn | 08 | 48.50 | |
| CRE | 1.74 | 124 | P | 08 | 31.80 | -0.2 |
| S.D. = 0.6 on 7 of 7 obs. | | | | | | |

% FEB 22, 1989 09h 28m 45.04±1.60s
11.099 N ± 8.2km 61.872 W ±26.3km

DEPTH = 27.4 ± 13.0 km

WINDWARD ISLANDS (95)

| | | | | | | |
|---------------------------|------|-----|----|----|-------|------|
| TCE | 0.42 | 164 | eP | 28 | 53.87 | -0.1 |
| | | | eS | 29 | 07.95 | |
| TRN | 0.64 | 134 | eP | 28 | 58.06 | 0.4 |
| | | | eS | 29 | 12.22 | |
| TPP | 0.88 | 152 | eP | 29 | 01.64 | 0.2 |
| | | | eS | 29 | 16.00 | |
| TBH | 1.00 | 128 | eP | 29 | 02.71 | -0.5 |
| | | | eS | 29 | 22.48 | |
| GRW | 1.07 | 11 | eP | 29 | 04.28 | -0.1 |
| | | | eS | 29 | 26.07 | |
| SVB | 2.24 | 16 | eP | 29 | 21.63 | 0.5 |
| SVV | 2.30 | 16 | eP | 29 | 21.45 | -0.4 |
| | | | eS | 29 | 59.97 | |
| S.D. = 0.6 on 7 of 7 obs. | | | | | | |

& FEB 22, 1989 09h 28m 59.01s
39.256 N 117.401 W

DEPTH = 4.0km

NEVADA (37)

<REN>. MD 2.9 (REN).

| | | | | | | |
|-------------------|------|-----|----|----|-------|------|
| KVN | 0.58 | 250 | eP | 29 | 09.30 | -1.3 |
| TNP | 1.18 | 173 | eP | 29 | 19.00 | -2.8 |
| HCR | 1.27 | 143 | eP | 29 | 20.80 | -2.5 |
| MZP | 1.55 | 179 | eP | 29 | 25.90 | -1.8 |
| KRNA | 1.71 | 152 | eP | 29 | 27.90 | -2.1 |
| 5 obs. associated | | | | | | |

& FEB 22, 1989 09h 49m 44.61s
39.230 N 117.338 W

DEPTH = 0.0km

NEVADA (37)

<REN>. MD 3.5 (REN).

| | | | | | | |
|-------------------|------|-----|-----|----|-------|------|
| KVN | 0.62 | 253 | iPc | 49 | 56.00 | -1.0 |
| TNP | 1.15 | 175 | iPc | 50 | 05.80 | -1.4 |
| HCR | 1.22 | 144 | eP | 50 | 06.70 | -1.7 |
| MZP | 1.53 | 181 | eP | 50 | 12.00 | -1.5 |
| KRNA | 1.67 | 153 | eP | 50 | 14.00 | -1.4 |
| 5 obs. associated | | | | | | |

FEB 22, 1989 10h 06m 01.92±0.55s
42.365 N ± 4.8km 18.845 E ± 5.0km

DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)

MD 2.5 (TTG).

| | | | | | | |
|-----------------------------|------|-----|-----|----|-------|------|
| BDV | 0.08 | 189 | iPg | 06 | 03.70 | -0.7 |
| | | | iSg | 06 | 05.50 | |
| HCY | 0.27 | 288 | iPg | 06 | 08.00 | 0.4 |
| | | | iSg | 06 | 13.50 | |
| TTG | 0.31 | 78 | iPg | 06 | 07.90 | -0.6 |
| | | | iSg | 06 | 13.00 | |
| NKY | 0.46 | 14 | ePg | 06 | 11.20 | -0.1 |
| | | | eSg | 06 | 19.30 | |
| ULC | 0.50 | 143 | ePg | 06 | 11.40 | -0.7 |
| | | | eSg | 06 | 19.50 | |
| BRY | 0.58 | 338 | ePg | 06 | 13.70 | -0.1 |
| | | | eSg | 06 | 23.10 | |
| SDA | 0.60 | 125 | ePg | 06 | 14.70 | 0.7 |
| PUK | 0.84 | 112 | ePg | 06 | 19.50 | 1.3 |
| BCI | 0.91 | 89 | ePg | 06 | 18.70 | -0.5 |
| LACI | 0.97 | 138 | ePg | 06 | 20.50 | 0.1 |
| PHP | 1.37 | 119 | ePn | 06 | 29.60 | 2.6X |
| OHR | 1.93 | 130 | ePn | 06 | 35.20 | 0.1 |
| S.D. = 0.7 on 11 of 12 obs. | | | | | | |

FEB 22, 1989 10h 25m 45.27±0.11s
56.152 N ± 2.6km 153.642 W ± 1.8km

DEPTH = 33.0km (normal)

5.7mb (80 obs.) 5.8msz (25 obs.)

KODIAK ISLAND REGION (13)

ML 5.8 (PMR). Ms 5.9 (BRK). 5.5

(PAS). Mo=6*10**17 Nm (PPT).

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 15S, 39C

Centroid Location:

Origin Time 10:25:48.2 0.4

Lat 55.70N 0.06 Lon 153.76W 0.06

Dep 25.0 BDY Half-duration 3.5

Moment Tensor: Scale 10**17 Nm

Mrr= 3.66 0.18 Mtt=-1.87 0.26

Mff=-1.80 0.23 Mrt= 7.98 0.47

Mrf= 4.86 0.52 Mtf=-2.81 0.21

Principal Axes:

T Val= 9.88 Plg=56 Azm=336

N 0.73 7 237

P -10.61 33 142

Best Double Couple:Mo=1.0*10**18

NP1:Strike=208 Dip=13 Slip= 60

NP2: 58 78 97

| | | | | | | |
|-----|-------|----------|-------|----|-------|-------|
| KDC | 1.72 | 21 | iP | 26 | 12.10 | -1.2 |
| SDN | 3.96 | 261 | eP | 26 | 43.80 | -1.3 |
| SVW | 5.08 | 349 | iPc | 26 | 59.30 | -1.8 |
| MID | 5.10 | 47 | eP | 26 | 59.50 | -1.9 |
| PMS | 5.53 | 21 | ePc | 27 | 03.50 | -4.0X |
| PWA | 5.85 | 18 | ePc | 27 | 08.30 | -3.6X |
| PMR | 5.94 | 21 | ePc | 27 | 09.00 | -4.1X |
| TTA | 6.91 | 351 | ePc | 27 | 24.10 | -2.7 |
| TOA | 7.10 | 30 | ePc | 27 | 25.80 | -3.7X |
| YKU | 8.16 | 60 | eP | 27 | 42.30 | -2.0 |
| FBA | 9.23 | 16 | ePd | 27 | 54.80 | -4.3X |
| IMA | 9.95 | 360 | eP | 28 | 04.30 | -4.8X |
| SIT | 10.14 | 77 | eP | 28 | 05.00 | -6.5X |
| Z | 20s | 9.50um | | | | |
| DWY | 10.61 | 36 | P | 28 | 14.70 | -3.2X |
| ADK | 14.18 | 262 | eP | 29 | 01.60 | -3.9X |
| INK | 15.27 | 29 | eP | 29 | 16.00 | -3.6X |
| | 0.8s | 348.00nm | 5.7mb | | | |
| BRW | 15.27 | 356 | eP | 29 | 15.20 | -4.5X |
| SMY | 18.97 | 273 | eP | 30 | 03.70 | -2.3 |
| PGC | 19.77 | 100 | eP | 30 | 16.00 | 0.9 |
| MCW | 20.09 | 99 | eP | 30 | 17.60 | -1.0 |
| YKA | 20.64 | 56 | P | 30 | 23.20 | -0.9 |
| YKC | 20.70 | 56 | ePc | 30 | 23.00 | -1.7 |
| | 0.8s | 110.00nm | 5.3mb | | | |
| GMW | 20.76 | 101 | eP | 30 | 25.00 | -0.5 |
| RMW | 21.35 | 101 | eP | 30 | 31.20 | -0.4 |
| PNT | 21.54 | 94 | iPd | 30 | 33.20 | -0.2 |
| | 1.0s | 372.00nm | 5.8mb | | | |
| SHW | 21.88 | 104 | eP | 30 | 37.50 | 0.5 |
| VGB | 23.10 | 103 | eP | 30 | 49.60 | 0.7 |
| DPW | 23.11 | 96 | eP | 30 | 49.30 | 0.3 |
| EDM | 23.24 | 80 | eP | 30 | 50.00 | -0.2 |
| | 1.1s | 462.00nm | 5.9mb | | | |

22d 10h

| | | | | | | | | | | | | | | |
|------|-------|----------|----------|---------|------|-------|----------|----------|--------|------|-------|----------|----------|---------|
| MBC | 23.74 | 20 ePc | 30 55.40 | 0.6 | ACO | 41.03 | 95 ePc | 33 27.70 | 0.9 | IISM | 55.80 | 108 (P) | 35 21.00 | -0.3 |
| | 0.6s | 363.00nm | | 6.1mb | | 0.8s | 20.80nm | | 4.9mb | KUMJ | 55.83 | 279 eP | 35 21.20 | -0.2 |
| FHC | 24.68 | 116 eP | 31 04.00 | -0.2 | ASAJ | 41.11 | 281 eP | 33 26.90 | -0.4 | DL2 | 56.05 | 291 Pc | 35 22.00 | -0.9 |
| | 1.0s | 150.00nm | | 5.5mb | HOOJ | 41.89 | 278 eP | 33 32.80 | -0.9 | Z | 24s | 7.90um | | 5.7MsZ |
| LBFM | 25.35 | 112 eP | 31 11.80 | 1.0 | PCO | 42.25 | 93 e(P) | 33 36.60 | -0.1 | N | 16s | 4.50um | | |
| WDC | 25.58 | 114 iPd | 31 13.50 | 0.8 | GDH | 42.32 | 31 ePd | 33 35.00 | -1.9 | E | 16s | 8.80um | | |
| | | iScP | 38 21.20 | | | 1.5s | 277.78nm | | 5.8mb | | | S | 43 10.00 | |
| SES | 25.79 | 85 eP | 31 14.00 | -0.6 | | | i | 35 28.00 | | SOD | 56.79 | 360 iP | 35 26.90 | -1.0 |
| | 1.0s | 294.00nm | | 5.8mb | | | i | 39 57.00 | | KAGJ | 56.81 | 278 eP | 35 27.70 | -0.8 |
| LTCM | 26.07 | 114 eP | 31 17.50 | 0.3 | RRO | 42.37 | 95 eP | 33 40.30 | 2.5 | STJ | 57.44 | 52 eP | 35 31.00 | -1.7 |
| MIN | 26.23 | 113 iPd | 31 19.10 | 0.2 | MRRJ | 43.09 | 280 eP | 33 42.50 | -1.0 | OXX | 57.72 | 109 eP | 35 35.30 | 0.1 |
| | | iScP | 38 23.30 | | SIO | 43.31 | 93 e(P) | 33 45.00 | -0.4 | BJI | 58.02 | 295 eP | 35 35.00 | -1.8 |
| ORV | 26.88 | 115 iPd | 31 24.20 | -0.4 | LNO | 43.48 | 93 eP | 33 45.70 | -0.9 | | 5.0s | 0.82nm | | 3.0mb X |
| NWRM | 27.02 | 118 eP | 31 26.00 | 0.1 | TUL | 43.47 | 93 eP+ | 33 46.30 | -0.4 | Z | 16s | 13.20um | | 6.1MsZ |
| LRM | 27.51 | 94 eP | 31 30.10 | -0.6 | | 1.2s | 27.30nm | | 4.9mb | N | 15s | 9.50um | | |
| BKS | 27.79 | 118 ePd | 31 33.10 | 0.1 | Z | 22s | 7.12um | | 5.5MsZ | E | 16s | 7.00um | | |
| | 1.6s | 225.00nm | | 5.6mb | | | e | 33 54.40 | | | | eS | 43 38.00 | |
| Z | 20s | 17.00um | | 5.6MsZ | | | LR | 49 00.00 | | HHC | 59.70 | 299 iPc | 35 48.00 | -0.7 |
| N | 20s | 10.00um | | | RLO | 43.72 | 92 eP | 33 48.20 | -0.5 | Z | 18s | 23.90um | | 6.4MsZ |
| E | 20s | 28.00um | | | VVO | 43.92 | 93 e(P) | 33 49.90 | -0.4 | N | 13s | 7.80um | | |
| | | iS | 36 20.00 | | DAG | 44.31 | 14 iPc | 33 52.00 | -1.0 | E | 15s | 8.80um | | |
| | | eLO | 37 49.95 | | | 0.7s | 171.23nm | | 6.0mb | | | pP | 35 55.00 | 23kmX |
| | | eLR | 38 27.45 | | Z | 19s | 8.54um | | 5.7MsZ | | | PP | 37 54.00 | |
| | | eScP | 38 29.20 | | | | i | 40 45.00 | | KJF | 59.98 | 359 eP | 35 40.00 | -10.1X |
| BGMT | 28.10 | 95 eP | 31 35.20 | -0.8 | AQMJ | 44.74 | 279 eP | 33 58.70 | 1.8 | | 0.8s | 85.10nm | | |
| HPI | 28.47 | 99 eP | 31 39.40 | 0.0 | FVM | 44.99 | 86 eP | 33 57.20 | -1.8 | | | i | 35 49.20 | |
| MHC | 28.50 | 118 iPd | 31 39.20 | -0.3 | OFUJ | 45.05 | 276 eP | 33 59.00 | -0.4 | | | eS | 44 12.00 | |
| ARN | 28.55 | 118 eP | 31 40.00 | 0.1 | SCH | 46.08 | 53 ePc | 34 06.40 | -1.0 | TIA | 60.43 | 292 Pc | 35 52.60 | -1.0 |
| CMB | 28.60 | 115 eP | 31 40.00 | -0.3 | | 0.7s | 74.00nm | | 5.7mb | Z | 15s | 8.30um | | 6.0MsZ |
| | 1.5s | 92.38nm | | 5.3mb | ELC | 46.16 | 86 eP | 34 07.20 | -1.0 | N | 23s | 11.80um | | |
| FFC | 28.79 | 71 eP | 31 41.50 | -0.2 | ELF | 46.41 | 74 P | 34 10.40 | 0.3 | E | 21s | 8.50um | | |
| | 0.8s | 12.00nm | | 4.6mb X | DLA | 46.50 | 75 P | 34 11.10 | 0.3 | | | S | 44 08.00 | |
| KVN | 29.01 | 111 ePd | 31 44.00 | -0.1 | LDN | 46.59 | 74 P | 34 11.50 | 0.0 | RGS | 60.52 | 8 iP | 35 53.00 | -0.8 |
| LLA | 29.42 | 118 iPd | 31 47.70 | 0.1 | YAMJ | 46.59 | 276 eP | 34 11.70 | 0.1 | BTO | 60.65 | 300 iPc | 35 54.50 | -0.7 |
| PRS | 29.43 | 119 iPd | 31 47.60 | -0.2 | GAC | 47.80 | 68 eP | 34 22.00 | 1.0 | N | 14s | 9.20um | | |
| FRI | 29.74 | 116 iPd | 31 50.20 | -0.3 | MDJ | 47.81 | 290 iPc | 34 20.00 | -1.1 | E | 14s | 15.90um | | |
| | | iScP | 38 34.40 | | N | 20s | 17.10um | | | | | pP | 36 07.50 | 46kmX |
| TNP | 30.19 | 111 eP | 31 54.40 | -0.3 | | | epP | 34 27.00 | 23kmX | | | S | 44 13.00 | |
| PHAM | 30.30 | 118 eP | 31 55.30 | -0.2 | | | ePP | 36 12.00 | | | | sS | 44 30.50 | |
| BCH | 30.98 | 118 eP | 32 01.80 | 0.3 | NIJ | 47.83 | 276 P | 34 20.90 | -0.4 | SUF | 61.47 | 0 iP | 35 59.80 | -0.5 |
| BW06 | 31.05 | 97 eP | 32 01.40 | -0.8 | KAKJ | 47.92 | 275 P | 34 21.80 | -0.3 | | 0.7s | 33.70nm | | 5.6mb |
| | 1.0s | 40.00nm | | 5.2mb | PWLA | 48.47 | 87 eP | 34 25.40 | -1.0 | TIY | 61.68 | 296 P | 36 01.00 | -1.2 |
| BLP | 31.32 | 120 eP | 32 05.20 | 0.8 | CHJJ | 48.69 | 275 P | 34 27.70 | -0.3 | | 1.2s | 0.10nm | | 2.8mb X |
| ISA | 31.40 | 116 eP | 32 05.00 | -0.2 | MAT | 48.77 | 276 iPc+ | 34 28.20 | -0.5 | N | 15s | 14.80um | | |
| | | e | 38 37.00 | | | 1.4s | 302.33nm | | 6.1mb | | | pP | 36 07.00 | 20kmX |
| SYF | 31.56 | 119 eP | 32 07.00 | 0.3 | Z | 20s | 9.22um | | 5.8MsZ | | | sP | 36 12.00 | |
| CLC | 31.73 | 115 eP | 32 08.00 | -0.1 | | | eS | 41 25.00 | | | | PP | 38 25.00 | |
| | | e | 38 41.00 | | MTMJ | 48.97 | 277 P | 34 30.20 | -0.1 | | | S | 44 27.00 | |
| SBB | 32.50 | 116 eP | 32 14.00 | -0.8 | RSNY | 49.08 | 68 eP | 34 30.00 | -1.0 | SSE | 62.20 | 285 P+ | 36 05.70 | 0.1 |
| | | e | 38 43.00 | | Z | 18s | 28.39um | | 6.3MsZ | | 1.1s | 116.00nm | | 5.9mb |
| GSC | 32.53 | 114 eP | 32 15.00 | -0.1 | RSCP | 49.40 | 85 eP | 34 40.00 | 6.4X | Z | 20s | 3.30um | | 5.5MsZ |
| MSU | 32.55 | 105 iP | 32 15.80 | 0.3 | Z | 18s | 19.35um | | 6.1MsZ | N | 16s | 2.40um | | |
| MWC | 32.75 | 117 eP | 32 17.00 | -0.1 | INY | 49.51 | 72 P | 34 42.00 | 7.8X | E | 13s | 3.90um | | |
| PAS | 32.75 | 117 eP | 32 16.00 | -0.9 | | | S | 41 42.00 | | | | epP | 36 12.00 | 21kmX |
| | | ePP | 33 30.00 | | | | SS | 45 40.00 | | | | PP | 38 24.00 | |
| | | ePcP | 34 40.00 | | | | LQ | 50 40.00 | | | | S | 44 34.00 | |
| | | eS | 37 24.00 | | | | LR | 52 26.00 | | | | sS | 44 52.00 | |
| | | ePcS | 38 43.00 | | IJDJ | 49.71 | 276 P | 34 35.20 | -0.7 | NB2 | 62.54 | 8 P | 36 06.40 | -1.2 |
| | | eSS | 40 00.00 | | GBTN | 50.12 | 83 eP | 34 37.80 | -1.2 | | 0.8s | 75.30nm | | 5.9mb |
| | | eLg | 40 48.00 | | TKL | 50.37 | 83 eP | 34 40.80 | -0.1 | NJ2 | 62.72 | 287 Pc | 36 08.00 | -1.0 |
| | | eLR | 41 10.00 | | CBM | 50.69 | 62 eP | 34 42.30 | -0.9 | | | | | |
| RVR | 33.27 | 116 eP | 32 20.00 | -1.5 | BLA | 51.10 | 79 eP | 34 45.00 | -1.5 | N | 14s | 5.80um | | |
| PEC | 33.46 | 116 eP | 32 22.90 | -0.3 | | 1.0s | 79.00nm | | 5.6mb | E | 15s | 2.60um | | |
| TPC | 33.85 | 115 eP | 32 26.00 | -0.6 | | | | | | | | pP | 36 15.00 | 23kmX |
| | | e | 38 50.00 | | CVL | 51.61 | 77 eP | 34 49.00 | -1.3 | | | S | 44 34.00 | |
| PLM | 34.04 | 116 eP | 32 28.00 | -0.4 | TBR | 51.63 | 71 eP | 34 49.50 | -0.9 | NRA0 | 62.87 | 8 P | 36 08.30 | -1.3 |
| BAR | 34.67 | 117 eP | 32 34.00 | 0.4 | PNJ | 51.83 | 71 eP | 34 54.60 | 2.7X | GUMO | 63.05 | 253 eP | 36 06.00 | -5.4X |
| | | e | 38 53.00 | | GMTN | 51.83 | 71 iP | 34 54.30 | 2.4 | PJG | 63.05 | 253 eP | 36 05.70 | -5.7X |
| ALE | 34.92 | 13 iPc | 32 34.50 | -0.7 | WKYJ | 51.92 | 276 eP | 34 52.40 | -0.4 | GUA | 63.07 | 253 eP | 36 05.20 | -6.3X |
| | 0.8s | 204.00nm | | 6.1mb | CBN | 52.04 | 76 eP | 35 04.00 | 10.5X | Z | 22s | 5.19um | | 5.7MsZ |
| HON | 34.93 | 187 eP | 32 45.00 | 9.2X | PRM | 52.31 | 83 eP | 34 55.80 | 0.2 | HFS | 63.63 | 7 eP | 36 13.30 | -1.3 |
| Z | 20s | 12.23um | | 5.6MsZ | LHS | 52.88 | 82 eP | 34 59.00 | -0.9 | | 0.7s | 71.10nm | | 5.9mb |
| RSON | 35.04 | 73 eP | 32 36.30 | -0.3 | SNY | 52.90 | 292 iPc | 34 59.00 | -0.9 | Z | 18s | 4.30um | | 5.7MsZ |
| | 1.0s | 87.50nm | | 5.6mb | | | 9.20um | | 5.8MsZ | | | LR | 00 55.00 | |
| Z | 20s | 21.47um | | 5.9MsZ | N | 22s | 16.70um | | | NUR | 63.68 | 1 iP | 36 14.60 | -0.3 |
| GLA | 35.31 | 114 eP | 32 38.00 | -1.0 | E | 21s | 14.50um | | | | 1.0s | 156.00nm | | 6.1mb |
| GOL | 35.45 | 97 ePd- | 32 40.10 | -0.4 | | | sP | 35 18.00 | | Z | 20s | 4.20um | | 5.6MsZ |
| | 2.0s | 147.06nm | | 5.6mb | | | PP | 37 00.00 | | | | eS | 45 00.00 | |
| | | iP | 32 54.50 | 56kmX | | | PcS | 40 05.60 | | | | LR | 09 10.00 | |
| | | ePP | 34 04.00 | | TKSJ | 52.96 | 277 eP | 35 00.70 | 0.3 | UPP | 64.13 | 5 iP | 36 11.60 | -6.3X |
| | | iS | 38 53.90 | | SHK | 53.31 | 279 eP | 35 02.90 | -0.1 | ELO | 65.12 | 18 ePd | 36 24.00 | -0.4 |
| ALO | 38.28 | 103 ePc | 33 03.00 | -1.3 | AKU | 53.91 | 21 iPc | 35 07.70 | 0.7 | | 1.1s | 102.00nm | | 5.8mb |
| | 1.5s | 69.44nm | | 5.3mb | | 1.4s | 176.74nm | | 5.9mb | EAB | 65.28 | 18 ePd | 36 25.30 | -0.1 |
| Z | 20s | 6.29um | | 5.4MsZ | CRX | 54.23 | 110 (P) | 35 10.50 | 0.2 | | 1.0s | 152.00nm | | 6.0mb |
| FRB | 40.22 | 43 eP | 33 19.00 | -0.7 | TRO | 54.41 | 3 iP | 35 10.00 | -0.6 | EBH | 65.37 | 18 ePd | 36 25.80 | -0.2 |
| | 1.0s | 156.00nm | | 5.7mb | REY | 54.45 | 24 iP | 35 21.90 | 10.9X | EBL | 65.90 | 18 eP | 36 29.40 | 0.0 |
| KUSJ | 40.64 | 278 eP | 33 21.40 | -2.0 | SHNJ | 54.48 | 280 eP | 35 11.40 | -0.2 | WHN | 66.29 | 290 Pc | 36 31.50 | -0.7 |

| | | | | | | | | | | | | | | | | | | | | | |
|------|-------|-----|----------|----|-------|---------|------|-------|-----|----------|----|-------|-------|--------|--------|-------|----------|----------|-------|--------|------|
| AURF | 79.05 | 14 | P | 37 | 47.48 | 0.2 | ASMO | 83.40 | 24 | iPd | 38 | 11.70 | 1.4 | GBA | 98.52 | 310 | P | 39 | 21.40 | -0.2 | |
| SBF | 79.08 | 14 | eP | 37 | 47.60 | 0.1 | EALH | 83.42 | 22 | eP | 38 | 12.00 | 1.8 | SNZO | 100.73 | 204 | ePdiff | 39 | 48.00 | 17.1X | |
| IMI | 79.10 | 13 | P | 37 | 47.66 | 0.1 | EPRU | 83.43 | 25 | e(P) | 38 | 12.00 | 1.7 | PP | | | PP | 43 | 52.00 | | |
| MME | 79.16 | 11 | P | 37 | 47.70 | -0.4 | LIJA | 83.45 | 25 | iP | 38 | 12.50 | 2.0 | SKS | | | SKS | 50 | 10.00 | | |
| FRF | 79.27 | 14 | eP | 37 | 48.60 | 0.2 | AFC | 83.54 | 24 | eP | 38 | 12.00 | 0.9 | iSKS | | | iSKS | 51 | 26.00 | | |
| | 0.8s | | 42.90nm | | | 5.5mb | ALOJ | 83.55 | 24 | iPd | 38 | 13.00 | 1.9 | PS | | | PS | 52 | 44.00 | | |
| BDI | 79.27 | 11 | P | 37 | 47.60 | -0.9 | CRT | 83.59 | 24 | iPd | 38 | 13.50 | 2.3 | ZOBO | 100.88 | 103 | Pdiff | 39 | 33.00 | 0.1 | |
| BEQ | 79.28 | 4 | eP | 37 | 48.50 | 0.1 | LOE | 83.60 | 292 | eP | 38 | 10.80 | -0.6 | Z | 20s | | 3.13um | | | 5.8Msz | |
| LRG | 79.34 | 15 | eP | 37 | 49.30 | 0.6 | ACHM | 83.62 | 24 | eP | 38 | 12.00 | 0.6 | LR | | | LR | 29 | 40.00 | | |
| | 1.1s | | 97.60nm | | | 5.7mb | MGR | 83.64 | 8 | P | 38 | 10.90 | -0.4 | LPB | 101.11 | 103 | ePdiff | 39 | 42.00 | 8.3X | |
| LMR | 79.48 | 15 | iPc | 37 | 50.10 | 0.6 | MAIO | 83.69 | 334 | iPc+ | 38 | 12.80 | 1.1 | CNCB | 101.40 | 103 | ePdiff | 39 | 40.00 | 4.8X | |
| | 0.8s | | 33.30nm | | | 5.4mb | | 1.3s | | 47.39nm | | 5.5mb | BNG | 119.28 | 9 | ePKPd | 44 | 31.90 | -0.7 | | |
| CAR | 79.53 | 87 | eP | 38 | 02.00 | 11.6X | | | | eS | | 47 | 36.00 | | | | | | | | |
| PGD | 79.58 | 11 | P | 37 | 51.20 | 0.9 | CGL | 83.76 | 13 | P | 38 | 12.76 | 0.7 | | 0.5s | | 3.00nm | | | | |
| PII | 79.60 | 12 | P | 37 | 49.40 | -0.7 | ATEJ | 83.76 | 24 | iPd | 38 | 13.50 | 1.3 | LWI | 126.21 | 357 | iPKPc | 44 | 47.60 | 1.4 | |
| RSM | 79.60 | 10 | P | 37 | 51.50 | 1.4 | TPE | 83.77 | 5 | eP | 38 | 11.00 | -1.0 | KMZ | 137.39 | 1 | iPKP | 45 | 10.00 | 2.7X | |
| FIR | 79.63 | 11 | eP | 37 | 52.00 | 1.7 | APHE | 83.80 | 24 | iPd | 38 | 14.00 | 1.6 | | | | i | 47 | 52.00 | | |
| ETER | 79.92 | 17 | eP | 37 | 52.50 | 0.6 | CNIL | 83.80 | 26 | iP | 38 | 14.00 | 1.8 | AVY | 139.50 | 328 | iPKPc | 45 | 12.82 | 1.7 | |
| AOI | 80.09 | 9 | eP | 37 | 53.62 | 0.8 | PLG | 83.81 | 2 | eP | 38 | 13.00 | 0.8 | BUL | 144.01 | 356 | iPKPd | 45 | 16.60 | -2.3 | |
| GUD | 80.16 | 23 | eP | 37 | 53.80 | 0.4 | KZN | 83.83 | 4 | eP | 38 | 13.00 | 0.6 | | | | iPP | 48 | 34.20 | | |
| EPLA | 80.28 | 25 | eP | 37 | 55.00 | 1.1 | MAL | 83.85 | 24 | iPc | 38 | 13.50 | 1.1 | SPA | 145.97 | 180 | iPKPc | 45 | 21.80 | 1.0 | |
| BOG | 80.37 | 96 | eP | 38 | 06.00 | 10.9X | | | | iS | | 48 | 40.00 | | | 1.0s | | 65.00nm | | | |
| | | | eS | | | 47 | | | | iSS | | 53 | 48.00 | | | | | i | 46 | 00.00 | |
| CIO | 80.40 | 10 | eP | 37 | 54.75 | 0.2 | CHG | 83.86 | 295 | iPc | 38 | 12.50 | -0.3 | SLR | 149.58 | 357 | iPKPd | 45 | 28.20 | 0.4 | |
| ETOR | 80.44 | 21 | e(P) | 37 | 55.00 | 0.2 | | 1.1s | | 91.77nm | | 5.8mb | | | 0.9s | | 105.04nm | | | | |
| ASS | 80.47 | 10 | P | 37 | 54.90 | 0.0 | | | | eS | | 48 | 56.00 | | Z | 20s | | 7.09um | | 6.5Msz | |
| RKT | 80.53 | 163 | iP | 38 | 04.40 | 9.2X | OUR | 83.86 | 2 | eP | 38 | 08.00 | -4.4X | KSR | 149.74 | 359 | ePKP | 45 | 30.50 | 2.4X | |
| | 1.4s | | 110.00nm | | | 5.7mb | EJIF | 83.86 | 25 | eP | 38 | 14.00 | 1.5 | | 1.1s | | 54.05nm | | | | |
| CVF | 80.54 | 13 | iPc | 37 | 55.60 | 0.3 | LSK | 83.94 | 4 | eP | 38 | 14.10 | 1.1 | | | | i | 46 | 30.50 | | |
| | 0.7s | | 19.80nm | | | 5.2mb | LIT | 84.06 | 3 | eP | 38 | 13.10 | -0.4 | PRY | 150.79 | 358 | ePKP | 45 | 28.50 | -1.2 | |
| HVAR | 80.69 | 7 | iP | 37 | 56.10 | 0.2 | TDS | 84.18 | 8 | P | 38 | 14.60 | 0.5 | | 0.8s | | 40.63nm | | | | |
| ALP | 80.85 | 9 | eP | 37 | 57.55 | 0.6 | OJEN | 84.18 | 25 | iP | 38 | 17.00 | 2.8X | | | | i | 45 | 41.70 | | |
| TOL | 80.91 | 23 | iPc | 37 | 58.00 | 0.8 | BBTK | 84.22 | 355 | iPc+ | 38 | 15.50 | 1.1 | SWZ | 151.04 | 2 | iPKPc | 45 | 34.00 | 4.0X | |
| | 0.6s | | 40.00nm | | | 5.6mb | | | | i | | 38 | 26.00 | | | 1.0s | | 160.00nm | | | |
| | | | iS | | | 48 | PAIG | 84.26 | 2 | eP | 38 | 13.20 | -1.2 | SEK | 152.17 | 358 | ePKP | 45 | 31.50 | -0.2 | |
| | | | eSS | | | 53 | DST | 84.59 | 358 | eP | 38 | 16.20 | 0.0 | | 1.0s | | 90.00nm | | | | |
| | | | eSSS | | | 56 | TAB | 84.62 | 344 | eP+ | 38 | 18.00 | 1.5 | | | | i | 45 | 40.00 | | |
| AQU | 81.25 | 10 | P | 37 | 59.60 | 0.6 | NEO | 84.87 | 2 | eP | 38 | 18.00 | 0.4 | KIM | 152.59 | 3 | iPKPc | 45 | 39.50 | 7.3X | |
| PSO | 81.40 | 101 | eP | 38 | 05.00 | 4.4X | DZM | 84.92 | 217 | iPc | 38 | 20.30 | 2.4 | | 1.0s | | 60.00nm | | | | |
| SHL | 81.59 | 304 | iP | 38 | 00.00 | -1.2 | GRI | 85.02 | 8 | P | 38 | 18.62 | 0.3 | FRS | 153.60 | 2 | iPKPd | 45 | 42.00 | 8.6X | |
| | | | iS | | | 48 | NDI | 85.10 | 317 | iPc | 38 | 19.00 | 0.1 | | 0.7s | | 37.67nm | | | | |
| TTG | 81.61 | 5 | eP | 38 | 01.00 | 0.3 | | 0.8s | | 104.48nm | | 6.1mb | | | | | | | | | |
| AZI | 81.62 | 10 | P | 38 | 00.40 | -0.4 | BDT | 85.14 | 294 | iPd | 38 | 19.00 | -0.1 | | | | | | | | |
| BCI | 81.71 | 5 | eP | 38 | 01.70 | 0.4 | | 1.0s | | 11.00nm | | 5.0mb | | | | | | | | | |
| ECHE | 81.84 | 21 | eP | 38 | 03.00 | 0.9 | LPI | 85.23 | 9 | P | 38 | 19.62 | 0.2 | | | | | | | | |
| SDI | 81.93 | 9 | P | 38 | 00.30 | -2.3 | IJM | 85.81 | 359 | eP | 38 | 22.30 | 0.0 | | | | | | | | |
| PUK | 82.02 | 5 | eP | 38 | 04.40 | 1.5 | KHL | 85.85 | 358 | eP | 38 | 20.50 | -2.1 | | | | | | | | |
| SDA | 82.03 | 5 | eP | 38 | 02.60 | -0.3 | NST | 85.88 | 292 | eP | 38 | 24.00 | 1.2 | | | | | | | | |
| DUI | 82.04 | 9 | P | 38 | 04.00 | 0.9 | VLS | 85.91 | 5 | eP | 38 | 23.00 | 0.2 | ARV | 0.07 | 345 | Pc | 01 | 08.70 | -0.3 | |
| SKO | 82.16 | 4 | iPc | 38 | 04.30 | 0.6 | ATH | 86.22 | 2 | eP | 38 | 24.00 | -0.2 | | | | eSg | 01 | 11.20 | | |
| | 1.0s | | 133.00nm | | | 5.9mb | | | | eS | | 49 | 00.00 | | CIO | 0.27 | 151 | ePg | 01 | 12.08 | -0.2 |
| Z | 18s | | 2.60um | | | 5.6Msz | MSL | 86.73 | 346 | ePd | 38 | 22.50 | -4.3X | | | | iSg | 01 | 17.01 | | |
| N | 18s | | 2.88um | | | | ITM | 86.96 | 4 | eP | 38 | 28.00 | 0.1 | ASS | 0.42 | 212 | P | 01 | 15.20 | 0.0 | |
| E | 18s | | 2.99um | | | | SLY | 87.16 | 344 | eP | 38 | 29.00 | 0.1 | AOI | 0.48 | 75 | iPc | 01 | 16.35 | 0.1 | |
| | | | iPcP | | | 38 | | | | iPP | | 41 | 53.00 | | | | | iSg | 01 | 24.95 | |
| | | | iS | | | 48 | ELL | 87.41 | 357 | eP | 38 | 29.00 | -1.3 | RSM | 0.62 | 323 | P | 01 | 19.40 | 0.3 | |
| | | | LR | | | 20 | IKL | 87.76 | 354 | iP | 38 | 32.30 | 0.5 | ALP | 0.79 | 145 | e(Pg) | 01 | 22.20 | 0.2 | |
| RFI | 82.35 | 9 | P | 38 | 07.82 | 3.2X | KAP | 88.66 | 359 | eP | 38 | 36.00 | -0.1 | | | | eSg | 01 | 34.89 | | |
| DMK | 82.39 | 359 | eP | 38 | 05.00 | 0.1 | NNT | 88.67 | 291 | iPd | 38 | 37.70 | 1.3 | | | | | | | | |
| ESEL | 82.39 | 18 | eP | 38 | 06.00 | 1.1 | VAM | 88.78 | 2 | eP | 38 | 37.00 | 0.3 | | | | | | | | |
| PHP | 82.40 | 4 | iPd | 38 | 05.60 | 0.7 | NPS | 88.94 | 1 | eP | 38 | 38.00 | 0.5 | | | | | | | | |
| LACI | 82.42 | 5 | iP | 38 | 05.50 | 0.5 | BHD | 89.61 | 345 | eP | 38 | 42.00 | 1.4 | | | | | | | | |
| EVIA | 82.44 | 22 | eP | 38 | 06.30 | 1.0 | | | | ePP | | 42 | 13.00 | | | | | | | | |
| EVAL | 82.48 | 26 | eP | 38 | 06.00 | 0.6 | | | | ePSP | | 43 | 23.00 | | | | | | | | |
| EHOR | 82.61 | 25 | eP | 38 | 07.00 | 0.9 | | | | eS | | 49 | 28.00 | | | | | | | | |
| EBAN | 82.62 | 24 | eP | 38 | 07.50 | 1.4 | BHL | 89.95 | 352 | Pc | 38 | 42.00 | -0.4 | | | | | | | | |
| KKN | 82.62 | 310 | Pd | 38 | 07.80 | 1.2 | | | | SKS | | 49 | 08.00 | | | | | | | | |
| GKN | 82.71 | 311 | Pd | 38 | 07.90 | 0.9 | CTA | 91.19 | 235 | iPd | 38 | 49.90 | 2.0 | HYA | 0.54 | 357 | iP | 09 | 54.63 | -0.5 | |
| TIR | 82.72 | 5 | eP | 38 | 06.70 | 0.2 | | 1.2s | | 56.25nm | | 5.8mb | | | | | eS | 10 | 04.69 | | |
| PKI | 82.76 | 310 | Pd | 38 | 08.30 | 0.9 | | | | iS | | 49 | 48.00 | | ODD1 | 0.75 | 165 | iP | 09 | 58.39 | -0.5 |
| KVT | 82.79 | 353 | iP | 38 | 08.30 | 1.3 | MTN | 92.52 | 251 | eP | 38 | 55.00 | 0.9 | | | | eS | 10 | 06.84 | | |
| VAY | 82.84 | 3 | iP | 38 | 07.60 | 0.4 | SNG | 92.74 | 287 | eP | 38 | 49.00 | -6.3X | SUE | 0.84 | 301 | eP | 10 | 00.69 | 0.3 | |
| | 1.0s | | 0.05nm | | | 2.6mb X | | | | eS | | 48 | 16.60 | | | | | eS | 10 | 12.40 | |
| DMN | 82.85 | 310 | Pd | 38 | 09.10 | 1.3 | | | | eS | | 48 | 16.60 | | BLS1 | 1.28 | 166 | iP | 10 | 08.02 | 0.0 |
| OHR | 82.99 | 4 | iPc | 38 | 08.85 | -7.2X | HYB | 94.64 | 311 | ePc | 39 | 03.80 | -0.3 | | | | iS | 10 | 24.81 | | |
| | 1.1s | | 0.23nm | | | 3.2mb X | | 1.0s | | 70.00nm | | 6.0mb | | KMY | 1.51 | 200 | eP | 10 | 11.53 | 0.2 | |
| | | | iPcP | | | 38 | QIS | 94.72 | 240 | eP | 39 | 04.00 | -0.2 | | | | iS | 10 | 31.24 | | |
| | | | eS | | | 48 | BRS | 94.81 | 226 | eP | 39 | 18.00 | 13.6X | NRA0 | 2.61 | 85 | eP | 10 | 27.70 | 0.5 | |
| ACU | 83.00 | 21 | eP | 38 | 09.00 | 0.9 | | | | eSKS | | 50 | 06.00 | | | | | ePg | 10 | 30.70 | |
| KNT | 83.01 | 3 | eP | 38 | 08.50 | 0.4 | POO | 95.56 | 315 | eP | 39 | 08.50 | 0.2 | | | | iS | 11 | 04.40 | | |
| RDO | 83.07 | 1 | iPc | 38 | 09.00 | 0.6 | BOM | 95.64 | 316 | eP | 39 | 05.00 | -3.6X | | | | | | | | |
| SRS | 83.07 | 2 | eP | 38 | 08. | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | |
|---|--|--|--|--|---|--|--|--|--|--|--|--|--|--|
| * FEB 22, 1989 15h 31m 26.72 ± 0.77s 27.450 N ± 15.7km 57.662 E ± 8.4km DEPTH = 33.0km (normal) 4.2mb (4 obs.) SOUTHERN IRAN (353) | | | | | SHL 6.38 268 eP CD2 6.48 40 Pn GYA 6.95 84 Pn CHG 7.14 180 eP LSA 7.82 300 Pn BDT 8.70 180 eP LOE 8.93 163 eP LZH 10.90 21 eP XAN 11.79 45 P PKI 12.19 280 P KKN 12.32 281 P 0.8s 33.00nm GKN 12.91 282 P 0.7s 17.00nm WHN 14.31 68 eP TIY 16.35 41 eP BTO 17.24 30 eP NDI 19.48 283 eP WMO 20.00 336 eP BJI 20.08 41 eP HYB 20.75 250 eP PSI 23.16 180 e(P) MAIO 35.08 297 eP WB5 57.12 139 eP WRA 57.15 140 Pc 0.8s 4.70nm KJF 58.76 331 iP SUF 59.37 329 iP 0.6s 4.10nm SOD 59.49 335 eP HFS 65.50 327 eP 0.5s 1.40nm NB2 66.54 328 P 0.9s 4.00nm MBC 75.28 9 eP INK 78.42 18 eP S.D. = 1.1 on 24 of 31 obs. | | | | | NANU 22.89 221 iPd 0.5s 22.00nm FORR 25.39 187 eP 0.5s 136.00nm MRWA 27.74 210 eP STK 27.88 161 eP BRS 29.74 139 iPc BWA 32.77 154 eP PSI 33.51 283 eP CAN 33.78 154 eP LOE 37.17 308 iPc SSE 37.71 346 eP BDT 39.25 306 eP CHG 40.15 308 ePc 0.6s 8.33nm MAT 42.32 8 eP 1.0s 10.00nm XAN 44.75 333 P TIY 46.52 339 Pc BJI 47.48 344 eP LZH 48.83 330 eP GTA 53.42 330 eP KOD 56.01 286 eP GBA 56.90 290 Pd 0.7s 4.60nm HYB 57.00 295 ePc WMO 62.98 326 eP MAIO 78.90 308 eP AVY 82.32 252 eP CNCB 150.64 139 PKP ZOBO 150.94 138 PKP S.D. = 1.4 on 28 of 36 obs. | | | | |
| * FEB 22, 1989 15h 42m 39.19 ± 1.16s 34.701 N ± 13.5km 25.921 E ± 9.1km DEPTH = 10.0km (geophysicist) CRETE (370) MD 4.0 (ATH). | | | | | * FEB 22, 1989 20h 34m 15.11 ± 0.66s 39.305 N ± 5.8km 28.943 E ± 6.6km DEPTH = 10.0km (geophysicist) TURKEY (366) | | | | | ? FEB 22, 1989 21h 17m 41.33 ± 0.89s 40.277 N ± 10.7km 28.915 E ± 9.4km DEPTH = 10.0km (geophysicist) TURKEY (366) | | | | |
| NPS 0.61 336 ePb KAP 1.33 50 ePb VAM 1.58 297 ePb ITM 4.08 309 ePn MBH 9.04 120 eP S.D. = 1.1 on 5 of 5 obs. | | | | | % FEB 22, 1989 20h 34m 15.11 ± 0.66s 39.305 N ± 5.8km 28.943 E ± 6.6km DEPTH = 10.0km (geophysicist) TURKEY (366) | | | | | * FEB 22, 1989 21h 24m 14.35 ± 1.02s 28.755 N ± 11.4km 139.197 E ± 13.2km DEPTH = 455.7 ± 15.2 km 4.3mb (5 obs.) BONIN ISLANDS REGION (212) | | | | |
| * FEB 22, 1989 16h 00m 15.55 ± 1.73s 14.621 N ± 21.6km 93.950 W ± 7.8km DEPTH = 48.5 ± 9.4 km 4.6mb (3 obs.) NEAR COAST OF CHIAPAS, MEXICO (69) | | | | | DST 0.39 321 iPg ALT 0.94 105 iPg KCT 1.05 335 iPn KHL 1.08 155 iPg YLV 1.30 15 iPn EDC 1.33 322 ePn GPA 1.44 47 ePn IZM 1.59 236 iPn HRT 1.61 20 ePn CTT 1.88 348 ePn S.D. = 1.0 on 10 of 10 obs. | | | | | CHJJ 7.27 359 P KAKJ 7.47 6 P MAT 7.81 354 iPd 0.6s 6.67nm NIJJ 8.46 359 P PKI 47.09 282 P 0.4s 4.00nm KKN 47.15 282 P 0.5s 9.00nm DMN 47.34 282 P 0.5s 11.00nm GKN 47.65 283 P WB5 48.57 186 iPd WRA 48.64 186 Pd 0.4s 2.10nm YKA 71.93 28 P S.D. = 0.2 on 11 of 11 obs. | | | | |
| * FEB 22, 1989 16h 00m 15.55 ± 1.73s 14.621 N ± 21.6km 93.950 W ± 7.8km DEPTH = 48.5 ± 9.4 km 4.6mb (3 obs.) NEAR COAST OF CHIAPAS, MEXICO (69) | | | | | FEB 22, 1989 21h 17m 03.10 ± 1.50s 5.522 S ± 7.5km 131.468 E ± 9.4km DEPTH = 48.2 ± 15.1 km 4.7mb (7 obs.) BANDA SEA (280) | | | | | FEB 22, 1989 21h 24m 33.51 ± 0.74s 43.401 N ± 4.6km 5.428 E ± 5.6km DEPTH = 10.0km (geophysicist) NEAR SOUTH COAST OF FRANCE (379) MD 2.7 (STR). | | | | |
| TPX 1.66 80 eP SCX 2.45 31 iP OXX 3.62 313 iP IISM 5.44 323 iP IIT 6.05 317 (P) ACX 6.11 292 eP III 6.48 306 eP IIC 7.20 316 (P) CRX 7.26 312 (P) YKC 49.96 348 eP 0.8s 8.00nm YKA 50.00 348 P FRB 52.15 14 eP MBC 63.07 353 eP DAG 72.47 14 eP NB2 84.50 28 P 1.1s 6.60nm APO 85.92 28 eP 0.5s 0.80nm S.D. = 0.8 on 11 of 16 obs. | | | | | AAI 3.74 299 ePd MTN 7.29 183 iPd KNA 10.50 194 eP 0.3s 125.00nm MNDI 12.14 94 eP WB5 14.55 169 iPc WRA 14.61 169 Pc 0.5s 19.20nm OIS 16.91 153 iPc e eS MBL 19.21 215 eP 0.4s 10.00nm CTA 20.40 137 iPc 1.0s 33.00nm WARB 21.06 192 eP | | | | | GELF 0.02 181 Pg BERF 0.21 115 Pg TREF 0.23 352 Pg PUYF 0.24 56 Pg PRAF 0.44 335 Pg VILF 0.50 25 Pg TAVF 0.51 65 Pg GANF 0.69 30 Pg | | | | |
| * FEB 22, 1989 19h 04m 36.22 ± 0.84s 25.991 N ± 6.1km 98.941 E ± 5.5km DEPTH = 46.0 ± 9.9 km 4.7mb (6 obs.) BURMA-CHINA BORDER REGION (297) | | | | | KMI 3.54 103 Pnc Pg 05 31.50 Pg 05 39.50 | | | | | GELF 0.02 181 Pg BERF 0.21 115 Pg TREF 0.23 352 Pg PUYF 0.24 56 Pg PRAF 0.44 335 Pg VILF 0.50 25 Pg TAVF 0.51 65 Pg GANF 0.69 30 Pg | | | | |

22d 21h

| | | | | | | |
|------|-------|-----|-----|----|-------|------|
| CALN | 1.12 | 71 | Pg | 24 | 55.12 | 0.5 |
| MVIF | 1.35 | 68 | Pn | 24 | 58.57 | 0.2 |
| TOUF | 1.45 | 65 | Pn | 25 | 00.26 | 0.2 |
| AURF | 1.46 | 70 | Pn | 25 | 00.21 | 0.2 |
| | | | Sg | 25 | 20.65 | |
| AUTN | 1.57 | 67 | Pn | 25 | 02.42 | 0.8 |
| | | | Sg | 25 | 23.27 | |
| SAOF | 1.65 | 69 | Pn | 25 | 02.66 | 0.0 |
| DOI | 1.71 | 49 | P | 25 | 04.50 | 0.9 |
| | | | eSn | 25 | 26.20 | |
| CVF | 2.66 | 107 | Pn | 25 | 15.62 | -1.6 |
| S.D. | = 0.7 | on | 16 | of | 16 | obs. |

* FEB 23, 1989 00h 25m 44.27±0.58s
 15.975 N ±13.9km 93.913 W ± 9.5km
 DEPTH = 113.9 ± 10.8 km
 NEAR COAST OF CHIAPAS, MEXICO (69)

| | | | | | | |
|------|-------|-----|-----|----|-------|------|
| SCX | 1.44 | 58 | iP | 26 | 11.30 | 0.3 |
| TPX | 1.92 | 124 | iP | 26 | 17.30 | 0.5 |
| SBG | 1.98 | 115 | iP+ | 26 | 17.60 | -0.4 |
| KKG | 2.06 | 119 | iPd | 26 | 18.30 | -0.6 |
| OC2 | 2.18 | 130 | eP+ | 26 | 19.50 | -0.7 |
| JAT | 2.75 | 127 | iP+ | 26 | 27.80 | 0.1 |
| OXX | 2.91 | 293 | iPc | 26 | 30.30 | 0.2 |
| | | | iS | 27 | 01.80 | |
| LHG | 3.04 | 120 | iP | 26 | 31.30 | -0.4 |
| MRL | 4.17 | 102 | eP | 26 | 46.90 | -0.2 |
| MYT | 4.18 | 117 | eP | 26 | 49.00 | 1.7 |
| IISM | 4.46 | 313 | iP | 26 | 49.30 | -1.6 |
| | | | iS | 27 | 36.00 | |
| IIT | 5.17 | 306 | eP | 27 | 02.50 | 1.5 |
| YKA | 48.70 | 347 | P | 34 | 18.70 | 0.1 |
| MBC | 61.74 | 353 | eP | 35 | 52.00 | -0.4 |
| S.D. | = 1.0 | on | 14 | of | 14 | obs. |

& FEB 23, 1989 00h 43m 55.70s
 35.212 N 95.862 W
 DEPTH = 5.0km (geophysicist)
 OKLAHOMA (499)
 <TUL>. MD 1.4 (TUL).

| | | | | | | |
|--------|------|-----|------|----|-------|------------|
| VVO | 0.16 | 39 | iPg | 43 | 39.30 | -19.7 |
| | | | eSg | 44 | 02.50 | |
| SIO | 0.65 | 326 | (Pg) | 44 | 05.00 | -3.6 |
| | | | (Sg) | 44 | 16.30 | |
| TUL | 0.70 | 5 | (Pg) | 44 | 09.50 | -0.2 |
| | | | eSg | 44 | 19.00 | |
| LNO | 0.70 | 5 | iPg | 44 | 05.30 | -4.4 |
| | | | eSg | 44 | 18.40 | |
| RLO | 1.17 | 35 | (Pg) | 44 | 16.10 | -1.9 |
| | | | eSg | 44 | 33.00 | |
| 5 obs. | | | | | | associated |

FEB 23, 1989 01h 31m 29.91±0.80s
 34.034 N ± 7.2km 26.139 E ± 5.3km
 DEPTH = 59.6 ± 12.5 km
 3.6mb (1 obs.)
 CRETE (370)
 MD 4.2 (ATH).

| | | | | | | |
|------|------|-----|-----|----|-------|-------|
| NPS | 1.30 | 341 | ePn | 31 | 52.50 | 0.3 |
| KAP | 1.74 | 29 | ePb | 31 | 59.40 | 1.2 |
| VAM | 2.10 | 311 | ePn | 32 | 07.00 | 3.7X |
| KSL | 3.51 | 53 | ePn | 32 | 23.50 | 0.3 |
| ELL | 4.10 | 48 | iP | 32 | 32.00 | 0.4 |
| IZM | 4.45 | 11 | eP | 32 | 36.10 | -0.3 |
| ITM | 4.65 | 314 | ePn | 32 | 40.50 | 1.3 |
| BCK | 4.98 | 45 | iP | 32 | 43.90 | 0.0 |
| KHL | 5.08 | 32 | eP | 32 | 41.00 | -4.4X |
| DST | 5.91 | 19 | eP | 32 | 57.00 | 0.1 |
| FAM | 6.56 | 79 | eP | 32 | 58.00 | -8.0X |
| IKL | 6.56 | 68 | iP | 33 | 05.50 | -0.5 |
| DOR | 7.63 | 107 | eP | 33 | 20.70 | -0.1 |
| | | | eS | 34 | 39.70 | |
| VAY | 7.80 | 340 | ePn | 33 | 21.60 | -1.6 |
| BBTK | 7.85 | 41 | eP | 33 | 24.00 | 0.0 |
| JVI | 8.02 | 103 | eP | 33 | 26.00 | -0.2 |
| | | | eS | 34 | 50.00 | |
| OHR | 8.24 | 331 | ePn | 33 | 29.50 | 0.3 |
| SALJ | 8.27 | 102 | P | 33 | 28.30 | -1.4 |
| BURJ | 8.27 | 100 | P | 33 | 29.30 | -0.5 |
| KFNJ | 8.30 | 102 | P | 33 | 31.00 | 0.9 |
| PRNI | 8.36 | 114 | eP | 33 | 31.00 | 0.1 |
| | | | eS | 34 | 58.00 | |
| MASJ | 8.38 | 103 | P | 33 | 31.70 | 0.5 |
| SKO | 8.75 | 336 | ePn | 33 | 46.00 | 9.8X |

| | | | | | | |
|------|-------|-----|--------|----|-------|-------|
| MEU | 9.63 | 292 | P | 33 | 49.00 | 0.6 |
| | | | eSn | 35 | 23.50 | |
| TDS | 9.65 | 308 | P | 33 | 47.30 | -1.3 |
| MGR | 10.42 | 309 | P | 33 | 55.30 | -3.8X |
| KBA | 16.23 | 327 | eP | 35 | 28.00 | 12.5X |
| KHC | 17.73 | 332 | eP | 35 | 46.10 | 12.0X |
| KSP | 18.27 | 340 | eP | 35 | 39.00 | -1.7 |
| MEM | 22.15 | 324 | P | 36 | 32.30 | 10.5X |
| HFS | 27.36 | 346 | eP | 37 | 11.80 | 0.8 |
| | 0.5s | | 0.90nm | | | 3.6mb |
| FRB | 62.04 | 330 | eP | 41 | 47.00 | 1.0 |
| S.D. | = 0.9 | on | 24 | of | 32 | obs. |

* FEB 23, 1989 01h 48m 32.21±0.49s
 30.258 S ±14.5km 177.724 W ± 8.5km
 DEPTH = 33.0km (normol)
 4.7mb (4 obs.)

KERMADEC ISLANDS (178)
 Felt (III) on Rooul Island.

| | | | | | | |
|------|--------|-----|---------|----|-------|-------|
| RAO | 1.02 | 350 | iP | 48 | 50.00 | -0.2 |
| DZM | 16.37 | 296 | iPd | 52 | 33.10 | 11.9X |
| BRS | 25.97 | 269 | iPc | 54 | 04.40 | 0.7 |
| | | | i | 54 | 06.90 | |
| | | | i | 54 | 13.00 | |
| | | | i | 54 | 24.00 | |
| | | | iScP | 00 | 11.00 | |
| CAN | 28.35 | 251 | eP | 54 | 36.00 | 10.8X |
| CTA | 34.01 | 279 | iPd | 55 | 16.20 | 0.9 |
| | 0.5s | | 14.79nm | | | 5.2mb |
| WRA | 44.33 | 272 | Pc | 56 | 40.10 | -1.0 |
| | 0.5s | | 4.30nm | | | 4.5mb |
| WB5 | 44.33 | 272 | eP | 56 | 40.70 | -0.5 |
| SYR | 84.35 | 45 | eP | 01 | 03.00 | 0.5 |
| BCH | 84.74 | 44 | P | 01 | 05.50 | 1.2 |
| PRS | 84.76 | 42 | eP | 01 | 04.80 | 0.5 |
| PLM | 85.51 | 47 | eP | 01 | 09.00 | 0.6 |
| RVR | 85.61 | 46 | eP | 01 | 07.00 | -1.6 |
| SBP | 85.78 | 46 | eP | 01 | 09.00 | -0.5 |
| ISA | 86.03 | 45 | eP | 01 | 11.00 | 0.3 |
| FRI | 86.18 | 43 | eP | 01 | 11.20 | -0.1 |
| CMB | 86.50 | 42 | eP | 01 | 12.50 | -0.4 |
| TPC | 86.51 | 47 | eP | 01 | 14.00 | 0.9 |
| GLA | 86.62 | 48 | eP | 01 | 14.00 | 0.3 |
| CLC | 86.67 | 45 | eP | 01 | 14.00 | 0.2 |
| GSC | 86.82 | 46 | eP | 01 | 15.00 | 0.4 |
| WDC | 87.05 | 39 | eP | 01 | 15.00 | -0.5 |
| TNP | 88.38 | 43 | P | 01 | 22.90 | 0.7 |
| | 0.7s | | 4.44nm | | | 4.9mb |
| KVN | 88.50 | 42 | P | 01 | 22.80 | 0.0 |
| ALQ | 93.30 | 51 | eP | 01 | 45.00 | -0.1 |
| | 0.9s | | 1.89nm | | | 4.5mb |
| BW06 | 95.88 | 43 | P | 01 | 55.70 | -1.1 |
| MBC | 112.22 | 13 | ePKP | 07 | 03.00 | -2.0 |
| FRB | 125.13 | 31 | ePKP | 07 | 29.00 | -1.0 |
| SUF | 144.05 | 341 | iPKP | 08 | 01.30 | -4.0X |
| | 0.4s | | 2.10nm | | | |
| NUR | 146.26 | 340 | iPKP | 08 | 08.10 | -1.0 |
| | 0.7s | | 44.00nm | | | |
| NB2 | 148.65 | 352 | PKP | 08 | 14.80 | 1.8 |
| | 0.8s | | 10.30nm | | | |
| HFS | 149.15 | 349 | ePKP | 08 | 14.70 | 1.0 |
| | 0.5s | | 3.20nm | | | |
| BNG | 150.07 | 214 | iPKPc | 08 | 22.70 | 6.2X |
| | 0.3s | | 10.00nm | | | |
| KIC | 155.33 | 163 | PKP | 08 | 52.40 | 28.5X |
| CLL | 157.50 | 342 | e(PKP) | 08 | 57.00 | 31.3X |
| BRG | 157.63 | 340 | e(PKP) | 08 | 58.10 | 32.3X |
| KHC | 159.29 | 339 | ePKP | 09 | 05.60 | 37.8X |
| S.D. | = 0.9 | on | 28 | of | 36 | obs. |

? FEB 23, 1989 02h 09m 02.79±4.53s
 7.921 S ±35.2km 129.309 E ±19.3km
 DEPTH = 145.2 ± 26.7 km
 4.7mb (2 obs.)

BANDA SEA (280)

| | | | | | | |
|-----|-------|-----|---------|----|-------|---------|
| MTN | 5.21 | 160 | eP | 10 | 22.00 | 2.2 |
| | | | eS | 11 | 08.00 | |
| KNA | 7.80 | 184 | iPc | 10 | 55.00 | 0.2 |
| | 0.3s | | 49.00nm | | | 5.7mb X |
| | | | eS | 12 | 22.00 | |
| WB5 | 12.86 | 158 | eP | 12 | 00.10 | -1.4 |
| | | | eS | 14 | 21.00 | |
| WRA | 12.91 | 158 | Pc | 12 | 00.40 | -1.7 |
| | 0.5s | | 8.50nm | | | 4.5mb |
| MBL | 16.03 | 214 | eP | 12 | 40.50 | -0.9 |

| | | | | | | |
|------|-------|-----|---------|----|-------|-------|
| OIS | 16.03 | 143 | eS | 15 | 31.00 | |
| | | | eP | 12 | 41.00 | -0.5 |
| | | | e | 12 | 43.00 | |
| | | | eS | 15 | 36.00 | |
| PMG | 17.70 | 96 | eP | 13 | 01.50 | -0.3 |
| WARB | 18.34 | 188 | iPd | 13 | 00.30 | -8.6X |
| | | | eS | 16 | 13.00 | |
| CTA | 20.38 | 128 | eP | 13 | 31.00 | 0.9 |
| FORR | 22.84 | 183 | iPd | 13 | 55.20 | 1.1 |
| | 0.4s | | 26.00nm | | | 5.0mb |
| BRS | 29.47 | 134 | iPd | 14 | 54.00 | -1.3 |
| | | | i | 15 | 04.40 | |
| | | | i | 15 | 47.40 | |
| | | | eS | 18 | 21.00 | |
| | | | e | 22 | 11.00 | |

| | | | | | | |
|------|-------|-----|----|----|-------|------|
| BWA | 31.70 | 149 | eP | 15 | 15.70 | 0.9 |
| CAN | 32.70 | 149 | eP | 15 | 24.20 | 0.8 |
| S.D. | = 1.4 | on | 12 | of | 13 | obs. |

? FEB 23, 1989 02h 43m 36.45±2.08s
 15.747 S ±94.7km 177.798 W ±54.9km
 DEPTH = 459.2 ± 19.0 km
 4.0mb (2 obs.)

FIJI ISLANDS REGION (181)

| | | | | | | |
|------|--------|-----|--------|----|-------|-------|
| SGE | 4.49 | 245 | iP | 44 | 57.70 | 0.3 |
| WB5 | 45.61 | 257 | eP | 51 | 16.20 | 0.2 |
| WRA | 45.63 | 257 | Pc | 51 | 14.80 | -1.3 |
| | 0.4s | | 2.30nm | | | 4.0mb |
| FORR | 51.45 | 243 | iPc | 51 | 59.90 | 0.1 |
| WARB | 52.58 | 249 | eP | 51 | 59.50 | -8.7X |
| ALQ | 84.30 | 51 | eP | 55 | 19.00 | -1.2 |
| | 0.8s | | 2.43nm | | | 4.0mb |
| YKA | 92.13 | 25 | P | 55 | 56.20 | 0.0 |
| PRU | 144.41 | 346 | PKPc | 02 | 20.50 | -0.2 |
| KHC | 145.43 | 347 | ePKP | 02 | 24.60 | 2.1 |
| FLN | 147.00 | 3 | ePKP | 02 | 27.50 | 2.6X |
| LDF | 147.19 | 3 | ePKP | 02 | 27.90 | 2.6X |
| GRR | 147.35 | 4 | ePKP | 02 | 28.60 | 3.1X |
| LOR | 148.54 | 358 | ePKP | 02 | 32.10 | 4.6X |
| SSF | 148.76 | 358 | ePKP | 02 | 32.60 | 4.8X |
| LBF | 148.82 | 358 | ePKP | 02 | 32.70 | 4.7X |
| BGF | 149.28 | 359 | ePKP | 02 | 33.90 | 5.3X |
| MAF | 149.62 | 359 | ePKP | 02 | 34.90 | 5.8X |
| LPG | 150.10 | 354 | ePKP | 02 | 37.00 | 6.7X |
| CAF | 150.91 | 0 | ePKP | 02 | 38.10 | 6.9X |
| LPO | 151.14 | 2 | ePKP | 02 | 38.30 | 6.8X |
| S.D. | = 1.4 | on | 8 | of | 20 | obs. |

FEB 23, 1989 03h 05m 38.79±0.76s
 3.076 N ± 5.8km 78.591 W ± 6.5km
 DEPTH = 18.7 ± 4.6 km
 4.9mb (28 obs.)

SOUTH OF PANAMA (83)

| | | | | | | |
|------|------|-----|-----|----|-------|------|
| ANCC | 1.78 | 76 | iPc | 06 | 08.70 | -0.2 |
| SALC | 1.90 | 93 | iPc | 06 | 10.06 | -0.7 |
| HOQC | 1.99 | 79 | iPc | 06 | 11.80 | -0.4 |
| CLMC | 2.18 | 68 | iPc | 06 | 14.00 | -0.8 |
| PSO | 2.26 | 146 | iPd | 06 | 17.00 | 0.8 |
| PURC | 2.35 | 109 | iPc | 06 | 17.60 | 0.0 |
| DIAC | 2.40 | 85 | ePc | 06 | 18.40 | 0.4 |
| HOBC | 2.76 | 63 | iPc | 06 | 22.05 | -1.0 |
| BOG | 4.77 | 71 | eP | 06 | 54.00 | 2.2 |
| | | | PS | 08 | 46.00 | |
| UPA | 5.94 | | | | | |

| | | | | | | |
|------|--------|---------|------|----|-------|-------|
| BAO | 35.53 | 122 | eP | 12 | 32.00 | -5.1X |
| FVM | 36.39 | 344 | P | 12 | 43.00 | -1.0 |
| | 0.6s | 11.05nm | | | | 4.9mb |
| VAO | 40.29 | 132 | eP | 13 | 13.80 | -3.0X |
| ALQ | 40.92 | 324 | eP | 13 | 23.30 | 1.3 |
| | 0.9s | 7.98nm | | | | 4.4mb |
| BW06 | 48.20 | 329 | P | 14 | 21.80 | 1.4 |
| RSO | 49.29 | 347 | P | 14 | 26.80 | -1.6 |
| | 0.5s | 8.59nm | | | | 5.0mb |
| TNP | 49.58 | 320 | P | 14 | 32.30 | 1.2 |
| KVN | 50.70 | 320 | P | 14 | 40.00 | 0.4 |
| BGMT | 51.21 | 330 | eP | 14 | 44.40 | 1.0 |
| | | e | | 14 | 51.40 | |
| LRM | 51.83 | 330 | eP | 14 | 48.70 | 0.5 |
| FFC | 54.89 | 344 | eP | 15 | 09.00 | -1.4 |
| | 0.6s | 3.00nm | | | | 4.5mb |
| FRB | 60.98 | 5 | eP | 15 | 50.00 | -2.9X |
| YKC | 64.97 | 343 | eP | 16 | 18.00 | -1.4 |
| | 0.6s | 5.00nm | | | | 4.8mb |
| YKA | 65.02 | 342 | P | 16 | 18.80 | -0.9 |
| TIC | 73.34 | 84 | Pc | 17 | 10.28 | -1.6 |
| | 0.8s | 28.00nm | | | | 5.3mb |
| LIC | 73.34 | 84 | Pc | 17 | 10.50 | -1.4 |
| | 0.7s | 28.00nm | | | | 5.4mb |
| KIC | 73.62 | 84 | Pc | 17 | 12.24 | -1.3 |
| | 0.7s | 30.00nm | | | | 5.4mb |
| INK | 74.76 | 342 | eP | 17 | 18.00 | -1.1 |
| MBC | 76.54 | 351 | eP | 17 | 28.00 | -1.1 |
| | 0.8s | 9.00nm | | | | 4.9mb |
| KOGH | 78.10 | 84 | eP | 17 | 38.00 | -0.9 |
| LEGH | 78.18 | 85 | eP | 17 | 38.50 | -0.8 |
| GRR | 79.56 | 41 | eP | 17 | 46.30 | 0.1 |
| EPF | 79.82 | 47 | iPc | 17 | 48.30 | 0.5 |
| MFF | 79.83 | 43 | eP | 17 | 47.90 | 0.2 |
| | 0.7s | 5.20nm | | | | 4.6mb |
| FLN | 79.86 | 41 | iPc | 17 | 47.90 | 0.1 |
| | 0.8s | 11.80nm | | | | 4.9mb |
| LDF | 80.07 | 41 | iPc | 17 | 49.00 | 0.1 |
| | 0.8s | 18.80nm | | | | 5.1mb |
| LFF | 80.28 | 45 | iPc | 17 | 50.50 | 0.4 |
| | 0.7s | 4.40nm | | | | 4.6mb |
| LPO | 80.57 | 45 | eP | 17 | 51.80 | 0.1 |
| | 0.7s | 7.40nm | | | | 4.8mb |
| RJF | 80.86 | 45 | eP | 17 | 53.30 | 0.1 |
| TCF | 81.42 | 44 | iPc | 17 | 56.10 | -0.1 |
| | 0.7s | 4.80nm | | | | 4.6mb |
| MAF | 81.67 | 44 | eP | 17 | 57.40 | 0.0 |
| | 0.8s | 9.90nm | | | | 4.9mb |
| AVF | 82.25 | 43 | eP | 18 | 00.20 | -0.2 |
| SSF | 82.37 | 43 | eP | 18 | 00.90 | -0.1 |
| SMF | 82.57 | 44 | iPc | 18 | 02.30 | 0.2 |
| | 0.7s | 4.80nm | | | | 4.7mb |
| LOR | 82.62 | 43 | iPc | 18 | 02.30 | -0.1 |
| | 0.7s | 4.80nm | | | | 4.7mb |
| DOU | 83.28 | 40 | P | 18 | 06.60 | 1.0 |
| | 0.7s | 16.70nm | | | | 5.3mb |
| ENN | 84.16 | 39 | eP | 18 | 11.00 | 1.0 |
| | 0.7s | 15.00nm | | | | 5.3mb |
| LRG | 84.23 | 47 | eP | 18 | 11.30 | 0.7 |
| WLF | 84.26 | 41 | P | 18 | 11.60 | 1.0 |
| LMR | 84.34 | 47 | eP | 18 | 11.70 | 0.6 |
| FRF | 84.44 | 47 | eP | 18 | 12.20 | 0.5 |
| | 0.8s | 9.10nm | | | | 5.1mb |
| LPG | 84.55 | 45 | eP | 18 | 13.80 | 1.2 |
| BSF | 84.63 | 42 | eP | 18 | 12.50 | -0.2 |
| | 0.7s | 5.20nm | | | | 4.9mb |
| WTS | 84.76 | 38 | eP | 18 | 14.00 | 1.0 |
| | 0.7s | 13.00nm | | | | 5.3mb |
| SBF | 85.02 | 46 | iPc | 18 | 15.00 | 0.4 |
| | 0.7s | 13.20nm | | | | 5.3mb |
| CVF | 86.07 | 48 | eP | 18 | 20.30 | 0.5 |
| | 0.7s | 5.20nm | | | | 4.8mb |
| GRF | 87.56 | 41 | eP | 18 | 28.00 | 1.1 |
| MOX | 87.78 | 40 | eP | 18 | 29.00 | 1.1 |
| CLL | 88.62 | 39 | e(P) | 18 | 32.00 | 0.1 |
| KBA | 89.09 | 43 | e(P) | 18 | 36.00 | 1.5 |
| | 0.7s | 2.00nm | | | | 4.5mb |
| KHC | 89.12 | 41 | iPd | 18 | 36.30 | 1.9 |
| RBL | 89.28 | 44 | P | 18 | 35.20 | -0.1 |
| BZS | 94.95 | 44 | eP | 19 | 03.00 | 1.7 |
| WRA | 143.76 | 240 | PKPd | 25 | 12.80 | -2.6 |
| | 1.1s | 4.20nm | | | | |
| WB5 | 143.76 | 240 | ePKP | 25 | 12.60 | -2.8 |
| | | e | | 25 | 20.70 | |
| HYB | 149.62 | 47 | ePKP | 25 | 29.00 | 4.0X |
| SHL | 150.07 | 17 | iPKP | 25 | 29.50 | 3.8X |
| GBA | 151.01 | 55 | PKP | 25 | 32.00 | 5.0X |

S.D. = 1.2 on 75 of 82 obs.

* FEB 23, 1989 03h 34m 53.39 ± 0.72s
11.202 N ± 11.8km 141.792 E ± 11.2km
DEPTH = 33.0km (normal)
4.0mb (1 obs.) 4.4Msz (1 obs.)

WEST CAROLINE ISLANDS (209)

| | | | | | | |
|------|--------|--------|------|----|-------|--------|
| PJG | 3.83 | 51 | eP | 35 | 52.30 | 0.9 |
| GUA | 3.83 | 52 | eP | 35 | 51.30 | -0.2 |
| | | eS | | 36 | 33.10 | |
| PMG | 21.16 | 165 | e(P) | 39 | 40.00 | 1.8 |
| KNA | 29.72 | 206 | eP | 40 | 57.00 | -2.0 |
| WB5 | 31.74 | 193 | eP | 41 | 22.80 | 6.0X |
| WRA | 31.81 | 193 | Pc | 41 | 21.20 | 3.8X |
| | 0.8s | 2.00nm | | | | 4.0mb |
| BJI | 36.59 | 326 | eP | 41 | 57.00 | -1.2 |
| TIY | 37.27 | 320 | Pd | 42 | 04.40 | 0.3 |
| Z | 20s | 0.60um | | | | 4.4Msz |
| WARB | 39.98 | 201 | eP | 42 | 23.00 | -3.8X |
| CD2 | 40.28 | 305 | P | 42 | 30.20 | 0.9 |
| BTO | 40.51 | 322 | eP | 42 | 32.00 | 0.9 |
| GTA | 46.60 | 315 | P | 43 | 21.00 | 0.6 |
| WMO | 56.66 | 315 | iPc | 44 | 37.00 | 1.0 |
| INK | 77.70 | 22 | eP | 46 | 46.00 | -2.1 |
| MBC | 81.30 | 14 | eP | 47 | 06.00 | -1.4 |
| YKA | 86.34 | 27 | P | 47 | 33.70 | 0.5 |
| LPB | 150.52 | 104 | ePKP | 54 | 56.00 | 16.8X |
| ZOBO | 150.52 | 103 | ePKP | 54 | 49.00 | 9.6X |
| CNCB | 150.60 | 104 | PKP | 54 | 50.00 | 10.5X |

S.D. = 1.4 on 13 of 19 obs.

& FEB 23, 1989 05h 33m 17.89s
60.035 N 152.766 W
DEPTH = 96.8km

SOUTHERN ALASKA (2)
<AGS-P>

| | | | | | | |
|------|------|-----|----|----|-------|------|
| ILIM | 0.11 | 295 | iP | 33 | 31.23 | 1.1 |
| | | eS | | 33 | 41.95 | |
| RDT | 0.57 | 18 | iP | 33 | 33.57 | -0.6 |
| | | eS | | 33 | 45.98 | |
| HOM | 0.68 | 123 | eP | 33 | 34.71 | -0.3 |
| AUL | 0.74 | 208 | eP | 33 | 35.20 | -0.4 |
| NNL | 0.74 | 89 | eP | 33 | 35.84 | 0.2 |
| AUE | 0.74 | 205 | eP | 33 | 34.90 | -0.7 |
| AUI | 0.78 | 206 | eP | 33 | 35.08 | -0.9 |
| | | eS | | 33 | 48.25 | |
| CNPM | 0.93 | 123 | iP | 33 | 36.75 | -0.8 |
| | | eS | | 33 | 52.08 | |
| BRK | 0.99 | 105 | eP | 33 | 37.60 | -0.6 |
| | | eS | | 33 | 52.69 | |
| NKA | 1.04 | 46 | iP | 33 | 39.81 | 1.0 |
| | | eS | | 33 | 58.48 | |
| SPU | 1.20 | 17 | iP | 33 | 39.99 | -0.8 |
| | | eS | | 33 | 57.76 | |
| CRP | 1.27 | 13 | iP | 33 | 41.11 | -0.6 |
| | | eS | | 33 | 59.74 | |
| CGLM | 1.33 | 16 | iP | 33 | 41.65 | -0.7 |
| SLKM | 1.35 | 68 | eP | 33 | 41.13 | -1.5 |
| | | eS | | 33 | 59.70 | |
| SEW | 1.66 | 86 | eP | 33 | 44.69 | -1.7 |
| | | eS | | 34 | 04.92 | |
| SVW | 1.77 | 309 | iP | 33 | 46.50 | -1.4 |
| PMS | 1.99 | 51 | iP | 33 | 49.49 | -1.3 |
| | | eS | | 34 | 13.67 | |
| PLRM | 2.37 | 47 | eP | 33 | 53.42 | -2.3 |
| PME | 2.43 | 47 | eP | 33 | 54.54 | -2.0 |
| KNK | 2.53 | 55 | iP | 33 | 55.42 | -2.5 |
| | | eS | | 34 | 25.12 | |
| KNIM | 2.53 | 81 | iP | 33 | 54.69 | -3.3 |
| GHO | 2.56 | 45 | iP | 33 | 56.12 | -2.3 |
| MTU | 2.57 | 89 | eP | 33 | 56.54 | -1.9 |
| | | eS | | 34 | 26.45 | |
| SML | 2.80 | 49 | iP | 33 | 59.09 | -2.6 |
| GLI | 2.93 | 71 | eP | 33 | 59.16 | -4.3 |
| HIN | 3.15 | 81 | eP | 34 | 04.49 | -1.9 |
| FID | 3.20 | 74 | eP | 34 | 04.38 | -2.7 |
| VZW | 3.24 | 69 | eP | 34 | 04.47 | -3.2 |
| KLU | 3.66 | 64 | iP | 34 | 10.28 | -3.2 |
| TOA | 3.82 | 54 | eP | 34 | 13.31 | -2.3 |
| WAX | 4.96 | 81 | eP | 34 | 28.60 | -2.8 |

31 obs. associated

FEB 23, 1989 05h 51m 11.42 ± 0.14s
14.771 S ± 4.4km 167.300 E ± 3.5km
DEPTH = 155.2km (11 depth phases)

5.4mb (44 obs.)
VANUATU ISLANDS (186)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 24C
Centroid Location:
Origin Time 05:51:15.9 0.7
Lat 15.06S 0.06 Lon 167.05E 0.06
Dep 154.7 1.8 Holf-duration 2.3
Moment Tensor: Scale 10**17 Nm
Mrr=-2.07 0.10 Mtt=-0.03 0.15
Mff=-2.04 0.15 Mrt=-0.51 0.11
Mrft=-1.37 0.11 Mtf=-0.88 0.16
Principal Axes:
T Val= 2.70 Plg=65 Azm=131
N -0.05 20 349
P -2.65 14 254
Best Double Couple: Mo=2.7*10**17
NP1: Strike=319 Dip=35 Slip= 54
NP2: 180 62 112

| | | | | | | |
|-----|-------|----------|------|----|-------|--------|
| PVC | 3.11 | 162 | iPc | 52 | 00.20 | -0.7 |
| | | iS | | 52 | 37.50 | |
| DZM | 7.31 | 186 | iPd | 52 | 55.50 | -1.3 |
| | | iS | | 54 | 19.00 | |
| VSG | 9.23 | 306 | eP | 53 | 25.00 | 2.7 |
| | | e(S) | | 55 | 07.00 | |
| VUN | 11.18 | 108 | ePc | 53 | 50.60 | 2.6 |
| PAA | 14.33 | 305 | eP | 54 | 35.00 | 6.5X |
| BRS | 18.45 | 225 | iPc- | 55 | 19.00 | 1.0 |
| | | i | | 55 | 23.00 | |
| | | e | | 55 | 52.00 | |
| | | iPcP | | 57 | 36.00 | |
| | | eS | | 58 | 29.00 | |
| | | e(SS) | | 58 | 48.00 | |
| | | iScP | | 03 | 04.50 | |
| PMG | 20.40 | 283 | iPd | 55 | 39.50 | 1.5 |
| | 1.0s | 600.00nm | | | | 6.0mb |
| CTA | 20.76 | 252 | iPd | 55 | 43.10 | 1.5 |
| | 1.0s | 408.00nm | | | | 5.8mb |
| | | i | | 56 | 00.20 | 80kmX |
| | | i | | 56 | 26.00 | |
| | | iS | | 59 | 24.00 | |
| RMQ | 20.88 | 233 | eP | 55 | 51.00 | 8.2X |
| | 1.0s | 618.00nm | | | | 6.0mb |
| COO | 21.16 | 219 | iPc | 55 | 47.70 | 2.1 |
| | 1.0s | 286.00nm | | | | 5.7mb |
| RIV | 23.95 | 215 | iPc | 56 | 13.80 | 1.3 |
| | | e | | 56 | 46.00 | 161km |
| KRP | 24.19 | 164 | P | 56 | 14.00 | -0.8 |
| | 1.0s | 426.00nm | | | | 5.9mb |
| CMS | 25.74 | 226 | iPc | 56 | 29.90 | 0.6 |
| | 1.0s | 392.00nm | | | | 6.0mb |
| | | e | | 57 | 05.00 | 174kmX |
| BWA | 25.95 | 218 | eP | 56 | 29.70 | -1.5 |
| | | eScP | | 03 | 22.20 | |
| CNB | 26.04 | 215 | iPd | 56 | 32.90 | 0.8 |
| | 0.4s | 88.00nm | | | | 5.8mb |
| | | e | | 57 | 04.00 | 150km |
| QIS | 26.99 | 254 | iPc | 56 | 39.80 | -0.9 |
| | 1.1s | 105.00nm | | | | 5.4mb |
| | | e | | 57 | 11.00 | 149km |
| STK | 28.99 | 230 | iPc | 56 | 59.30 | 0.6 |
| | 0.9s | 268.00nm | | | | 6.0mb |
| | | i | | 00 | 03.00 | |
| TOO | 29.84 | 216 | iPc | 57 | 06.50 | 0.4 |
| WB5 | 31.81 | 256 | iPc | 57 | 22.10 | -1.4 |
| | | epP | | 57 | 54.10 | 150km |
| | | ePP | | 58 | 18.50 | |
| | | iPcP | | 00 | 10.00 | |
| | | eS | | 02 | 18.40 | |
| | | eScP | | 03 | 43.10 | |
| WRA | 31.84 | 256 | Pd | 57 | 22.30 | -1.5 |
| | 0.9s | 61.00nm | | | | 5.4mb |
| ADE | 32.63 | 227 | iPc | 57 | 31.00 | 0.4 |
| | 0.9s | 102.52nm | | | | 5.6mb |
| | | | | | | |

23d 05h

| | | | | | | | | | | | | | | |
|------|-------|----------|----------|--------|-------|--------|-----------|----------|---------|------|--------|-------------|----------|--------|
| | 0.7 s | 40.00nm | 5.1mb | TTA | 82.55 | 16 eP | 03 17.10 | -0.7 | | | | e | 13 47.40 | |
| PPN | 41.59 | 100 iP | 58 46.20 | 0.5 | GTA | 82.72 | 314 iPc | 03 20.40 | 1.1 | ZST | 138.58 | 330 ePKP | 10 20.70 | 0.3 |
| | 0.7 s | 60.00nm | 5.3mb | | | 3.0 s | 0.41nm | | 2.7mb X | | | e | 11 02.90 | |
| TBI | 41.62 | 109 iP | 58 47.80 | 1.9 | | | ScS | 13 27.60 | | KHC | 139.53 | 333 PKPc | 10 16.40 | -5.8X |
| | 0.8 s | 85.00nm | 5.4mb | | PMR | 83.53 | 19 eP | 03 21.20 | -1.5 | | | e | 10 24.40 | |
| TVO | 41.75 | 100 iP | 58 47.80 | 0.7 | | 0.8 s | 16.50nm | | 4.9mb | SKO | 139.98 | 319 ePKP | 10 14.50 | -8.7X |
| | 0.7 s | 135.00nm | 5.7mb | | SHL | 83.61 | 298 iP | 03 24.60 | 0.4 | | | i | 10 21.50 | |
| PMO | 43.24 | 96 iP | 59 00.10 | 0.9 | | | iS | 13 32.00 | | | | i | 10 58.00 | |
| | 0.7 s | 135.00nm | 5.7mb | | GCC | 84.04 | 49 eP | 03 26.20 | 0.4 | GRF | 140.08 | 336 ePKP | 10 17.00 | -6.1X |
| VAH | 43.47 | 97 iP | 59 01.60 | 0.5 | BKS | 84.20 | 49 ePd | 03 26.90 | 0.3 | OHR | 140.85 | 319 ePKP | 10 13.70 | -11.1X |
| | 0.7 s | 80.00nm | 5.4mb | | | 0.9 s | 33.00nm | | 5.2mb | ENN | 141.06 | 341 ePKP | 10 19.50 | -5.3X |
| TPT | 43.51 | 96 iP | 59 02.50 | 1.1 | PRS | 84.22 | 50 eP | 03 27.40 | 0.6 | | 1.0 s | 14.00nm | | |
| | 0.7 s | 80.00nm | 5.4mb | | MHC | 84.42 | 49 eP | 03 28.40 | 0.5 | | | e | 10 27.50 | |
| RUV | 43.72 | 97 iP | 59 03.50 | 0.5 | ARN | 84.50 | 49 P | 03 28.00 | -0.2 | KBA | 141.17 | 331 i (PKP) | 10 18.60 | -6.8X |
| | 0.7 s | 100.00nm | 5.5mb | | SYP | 84.59 | 52 eP | 03 30.00 | 1.2 | | 1.1 s | 9.60nm | | |
| COOL | 45.13 | 241 iPc | 59 13.20 | -1.0 | PRI | 84.68 | 51 eP | 03 30.00 | 0.8 | | | i | 10 21.00 | |
| | 0.6 s | 17.00nm | 4.8mb | | BCH | 84.75 | 52 P | 03 29.70 | 0.1 | | | i | 10 26.00 | |
| MBL | 45.47 | 255 iPc | 59 16.90 | 0.0 | TOA | 84.87 | 20 eP | 03 29.50 | 0.0 | | | i | 11 05.20 | |
| | 0.4 s | 41.00nm | 5.4mb | | WDC | 85.07 | 46 e(P) | 03 31.20 | 0.3 | MEM | 141.18 | 341 PKP | 10 20.00 | -4.9X |
| MEKA | 46.87 | 247 iPc | 59 28.00 | 0.1 | CMB | 85.61 | 49 eP | 03 33.90 | 0.2 | LJU | 141.34 | 329 e(PKP) | 10 21.00 | -4.5X |
| | 0.5 s | 37.00nm | 5.2mb | | LSA | 85.61 | 302 Pc | 03 35.60 | 1.2 | VBY | 141.36 | 328 e(PKP) | 10 20.70 | -4.8X |
| KLB | 48.11 | 241 eP | 59 36.00 | -1.4 | IMA | 85.68 | 15 eP | 03 33.40 | -0.2 | RBL | 141.53 | 331 PKP | 10 19.60 | -6.3X |
| NWAO | 48.75 | 239 eP | 59 42.00 | -0.4 | | 1.0 s | 28.80nm | | 5.1mb | CEY | 141.61 | 329 e(PKP) | 10 21.00 | -5.0X |
| PCI | 48.86 | 282 ePd | 59 44.60 | 1.2 | FRI | 85.71 | 50 eP | 03 34.40 | 0.3 | VOY | 141.67 | 330 iPKP | 10 20.90 | -5.3X |
| | 1.0 s | 26.00nm | 4.9mb | | LBFM | 85.83 | 45 P | 03 35.50 | 0.6 | | | e | 10 35.40 | |
| BAL | 48.87 | 242 eP | 59 42.00 | -1.3 | MWC | 85.96 | 53 eP | 03 35.00 | -0.7 | FVI | 141.78 | 331 PKP | 10 19.90 | -6.3X |
| RKG | 49.13 | 238 eP | 59 46.00 | 0.7 | ISA | 86.15 | 52 eP | 03 36.00 | -0.4 | SNF | 141.78 | 342 PKP | 10 21.80 | -4.3X |
| MRWA | 49.33 | 244 eP | 59 45.40 | -1.5 | | | e | 04 18.00 | 168kmX | WLF | 141.95 | 340 PKPc | 10 22.60 | -3.8X |
| NANU | 49.46 | 253 iPd | 59 48.00 | 0.1 | SBB | 86.30 | 53 eP | 03 36.00 | -1.2 | TRI | 141.96 | 330 iPKPd | 10 21.50 | -5.0X |
| | 0.5 s | 46.00nm | 5.4mb | | | e | 04 16.00 | 159km | | | i | 11 05.20 | | |
| MUN | 49.47 | 240 eP | 59 42.00 | -5.9X | FBA | 86.38 | 18 eP | 03 35.00 | -1.9 | GWf | 142.03 | 338 PKP | 10 21.81 | -4.8X |
| OPA | 49.71 | 44 P | 59 50.10 | 0.4 | RVR | 86.41 | 54 eP | 03 37.00 | -0.6 | CDF | 142.62 | 338 PKP | 10 23.30 | -4.4X |
| | | pP | 00 29.60 | 176kmX | | e | 04 15.00 | 150km | | FEL | 142.80 | 337 PKP | 10 23.45 | -4.6X |
| KHKI | 50.95 | 271 ePd | 59 59.00 | -0.4 | BAR | 86.51 | 55 eP | 03 38.00 | -0.2 | MOF | 143.15 | 338 PKP | 10 24.85 | -3.8X |
| | | e | 02 54.10 | | PEC | 86.54 | 54 P | 03 38.00 | -0.3 | VITF | 143.25 | 339 PKP | 10 24.71 | -3.9X |
| TSM | 52.30 | 287 ePc | 00 11.20 | 1.8 | PLM | 86.59 | 54 eP | 03 39.00 | 0.2 | BSF | 143.29 | 338 PKP | 10 25.46 | -3.4X |
| CHJJ | 57.19 | 333 P | 00 46.10 | 1.7 | | e | 04 20.00 | 163km | | HAU | 143.30 | 338 ePKP | 10 25.90 | -2.9X |
| MAT | 57.95 | 332 iPc | 00 48.60 | -1.2 | CLC | 86.87 | 52 eP | 03 40.00 | 0.1 | SAL | 143.56 | 332 PKP | 10 27.05 | -2.2 |
| | 1.2 s | 51.56nm | 5.3mb | | | e | 04 21.00 | 163km | | SAL | 143.56 | 332 PKP | 10 16.40 | -12.8X |
| | | (S) | 08 35.00 | | TPC | 87.48 | 54 eP | 03 43.00 | 0.1 | AOI | 143.56 | 327 ePKP | 10 27.47 | -1.9 |
| MTMJ | 58.17 | 332 P | 00 50.40 | -1.0 | | e | 04 21.00 | 150km | | LOMF | 143.68 | 337 PKP | 10 27.66 | -1.9 |
| OFUJ | 58.68 | 337 P | 00 54.50 | -0.2 | KVN | 87.65 | 49 eP | 03 43.40 | -0.3 | RSM | 143.89 | 329 PKP | 10 29.00 | -0.8 |
| OZH | 61.75 | 309 Pc | 01 15.20 | -0.6 | | epP | 04 19.00 | 139kmX | | CIO | 144.05 | 327 ePKPc | 10 28.97 | -1.3 |
| MRRJ | 61.82 | 338 eP | 01 14.50 | -1.4 | GMW | 87.78 | 40 P | 03 43.80 | -0.1 | ALP | 144.10 | 326 ePKPc | 10 28.86 | -1.6 |
| ASAJ | 62.78 | 340 eP | 01 22.30 | 0.0 | TNP | 87.95 | 50 eP | 03 45.00 | -0.2 | VAI | 144.12 | 334 PKP | 10 28.60 | -1.6 |
| SSE | 63.57 | 316 P | 01 27.00 | -0.7 | | 0.9 s | 7.81nm | | 4.7mb | PGD | 144.29 | 329 PKP | 10 30.40 | -0.4 |
| | 1.4 s | 37.00nm | 5.1mb | | | epP | 04 26.00 | 163km | | DUI | 144.36 | 324 PKP | 10 28.90 | -2.0 |
| | | PcP | 02 02.00 | | GLA | 88.10 | 55 eP | 03 46.00 | 0.2 | ASS | 144.39 | 327 PKP | 10 29.50 | -1.4 |
| | | eS | 09 48.00 | | MCW | 88.22 | 39 P | 03 45.90 | -0.2 | TDS | 144.48 | 320 PKP | 10 30.40 | -0.6 |
| | | eScS | 11 12.00 | | RMW | 88.35 | 40 P | 03 47.00 | 0.2 | AQU | 144.49 | 326 PKP | 10 29.30 | -1.7 |
| KGM | 65.47 | 279 ePd | 01 41.20 | 0.9 | PNT | 90.42 | 39 eP | 03 57.00 | 0.7 | MME | 144.55 | 330 PKP | 10 30.60 | -0.7 |
| WHN | 67.99 | 312 P | 01 55.50 | -0.4 | | 0.8 s | 19.00nm | | 5.2mb | FIR | 144.59 | 329 iPKPc | 10 31.50 | 0.4 |
| MDJ | 68.33 | 332 Pc | 01 58.00 | 0.3 | WMO | 92.78 | 315 P | 04 01.60 | -5.7X | ORX | 144.64 | 335 PKPc | 10 29.95 | -1.3 |
| | | epP | 02 34.00 | 149km | INK | 92.92 | 19 eP | 04 06.00 | -1.3 | FLN | 144.64 | 346 ePKP | 10 28.90 | -2.1 |
| | | S | 10 47.00 | | HYB | 93.16 | 287 eP | 04 09.00 | -0.5 | ORO | 144.65 | 335 PKP | 10 29.90 | -1.4 |
| | | eScS | 11 35.00 | | GBA | 93.27 | 283 Pc | 04 09.40 | -0.6 | MGR | 144.68 | 321 PKP | 10 29.40 | -2.0 |
| | | esS | 11 47.00 | | | 1.0 s | 13.20nm | | 5.1mb | BOB | 144.69 | 332 PKP | 10 30.80 | -0.6 |
| DL2 | 68.35 | 323 eP | 01 57.50 | -0.4 | ALO | 95.30 | 55 eP | 04 18.40 | -0.9 | SDI | 144.70 | 325 PKP | 10 28.50 | -2.9 |
| IPM | 68.41 | 281 ePc | 01 59.00 | 0.1 | | 1.0 s | 5.00nm | | 4.8mb | BDI | 144.70 | 330 PKP | 10 29.80 | -1.6 |
| | 0.9 s | 139.10nm | 5.8mb | | GOL | 97.26 | 51 P | 04 28.50 | 0.3 | LDF | 144.71 | 346 ePKP | 10 29.20 | -1.9 |
| TIA | 69.39 | 318 Pc | 02 03.60 | -0.8 | YKA | 97.57 | 27 P | 04 28.20 | -0.4 | AZI | 144.72 | 325 PKP | 10 30.20 | -1.1 |
| SNG | 69.61 | 284 eP | 02 06.90 | 0.8 | YKC | 97.62 | 27 eP | 04 28.00 | -0.9 | BSS | 144.72 | 323 PKP | 10 28.40 | -3.0X |
| | 1.6 s | 360.00nm | 5.9mb | | | 0.8 s | 8.00nm | | 5.3mb | LOR | 144.79 | 340 ePKP | 10 30.20 | -1.2 |
| | | e | 11 07.20 | | ZOBO | 117.18 | 117 PKP | 09 40.00 | -1.3 | MNS | 144.86 | 327 PKP | 10 30.10 | -1.5 |
| CN2 | 69.70 | 329 Pc | 02 06.00 | -0.1 | Z | 20 s | 0.09um | | 4.4Msz | RFI | 144.87 | 324 PKP | 10 31.50 | -0.1 |
| GYA | 71.76 | 305 iPc | 02 19.40 | 0.3 | | | LR | 47 12.00 | | PII | 144.99 | 330 PKP | 10 30.50 | -1.2 |
| NNT | 72.21 | 289 iPc | 02 23.00 | 1.3 | DAG | 117.91 | 2 ePKP | 09 38.00 | -2.2 | LBF | 145.00 | 340 ePKP | 10 30.80 | -1.0 |
| NST | 72.93 | 292 iPc | 02 28.00 | 2.2 | FRB | 117.93 | 25 ePKP | 09 39.00 | -1.5 | GRR | 145.08 | 346 ePKP | 10 30.80 | -1.0 |
| TIY | 73.31 | 317 Pc | 02 28.50 | 0.7 | SOD | 121.55 | 343 iPKP | 09 47.40 | 0.1 | SSF | 145.08 | 341 ePKP | 10 31.40 | -0.4 |
| | 1.2 s | 0.10nm | 2.4mb X | | SUF | 124.89 | 339 iPKP | 09 53.30 | -0.6 | LSD | 145.12 | 335 PKPc | 10 32.86 | 0.6 |
| E | 12 s | 0.30um | | | | 0.4 s | 24.40nm | | | GEN | 145.20 | 332 PKP | 10 31.12 | -0.9 |
| XAN | 73.74 | 313 Pc | 02 31.40 | 1.1 | NUR | 126.92 | 338 iPKP | 09 57.30 | -0.6 | RMP | 145.24 | 326 PKP | 10 31.30 | -1.0 |
| CHG | 75.12 | 294 iPc | 02 39.70 | 1.2 | | 0.5 s | 28.10nm | | | LPG | 145.25 | 336 ePKP | 10 32.50 | -0.1 |
| | 1.1 s | 55.70nm | 5.2mb | | NB2 | 130.67 | 345 PKP | 10 03.80 | -1.3 | RDP | 145.27 | 326 PKP | 10 32.00 | -0.4 |
| CHTO | 75.12 | 294 iP | 02 39.50 | 1.0 | | 0.5 s | 5.10nm | | | RSP | 145.33 | 335 PKP | 10 32.06 | -0.4 |
| | 1.0 s | 46.25nm | 5.2mb | | HFS | 130.77 | 343 ePKP | 09 49.90 | -15.4X | SMF | 145.34 | 340 ePKP | 10 31.90 | -0.4 |
| | | epP | 03 15.00 | 143kmX | | 0.4 s | 0.80nm | | | AVF | 145.37 | 340 ePKP | 10 31.70 | -0.6 |
| SPA | 75.32 | 180 iPc | 02 38.70 | -0.4 | NRA0 | 130.85 | 345 PKP | 10 05.40 | 0.0 | LPF | 145.46 | 346 ePKP | 10 32.20 | -0.2 |
| | 0.6 s | 60.98nm | 5.5mb | | BAO | 133.86 | 129 ePKP | 10 07.50 | -5.1X | SOI | 145.58 | 318 PKPc | 10 33.60 | 0.7 |
| | | i | 02 55.50 | 61kmX | SPC | 136.37 | 329 ePKP | 10 16.80 | 0.3 | MAO | 145.63 | 328 PKP | 10 32.90 | 0.0 |
| HHC | 75.64 | 320 P | 02 42.00 | 0.9 | BZS | 137.84 | 324 ePKPd | 10 18.00 | -1.1 | BNI | 145.65 | 335 PKP | 10 33.70 | 0.7 |
| CD2 | 76.06 | 308 P | 02 44.60 | 0.9 | BRG | 138.06 | 335 ePKP | 10 11.50 | -7.9X | GMB | 145.65 | 318 PKP | 10 33.88 | 0.6 |
| BTO | 76.47 | 319 P | 02 47.00 | 1.2 | | | e | 10 19.20 | | FIN | 145.68 | 333 PKPc | 10 33.00 | 0.0 |
| LZH | 78.37 | 312 eP | 02 57.50 | 1.0 | | | e | 13 43.20 | | RRL | 145.71 | 335 PKPc | 10 34.40 | 1.1 |
| | 1.5 s | 154.00nm | 5.5mb | | CLL | 138.10 | 336 ePKP | 10 21.00 | 1.6 | BGF | 145.74 | 341 ePKP | 10 33.20 | 0.2 |
| KDC | 79.50 | 21 P | 03 02.00 | 0.2 | | 1.2 s | 21.00nm | | | ROB | 145.76 | 333 PKPc | 10 33.37 | 0.2 |
| SVW | 81.18 | 17 eP | 03 12.30 | 1.6 | SRO | 138.24 | 329 ePKP | 10 19.80 | 0.0 | DOI | 145.86 | 334 PKP | 10 32.40 | -1.0 |

ATN 145.91 318 PKP 10 33.00 -0.5
 PZZ 145.92 334 PKP 10 33.30 -0.2
 PLDF 146.00 339 PKP 10 35.19 1.7
 STV 146.04 334 PKP 10 32.81 -0.8
 IMI 146.06 333 PKP 10 34.46 0.8
 AGO 146.09 340 PKP 10 35.12 1.5
 MAF 146.13 341 ePKP 10 34.40 0.8
 SAOF 146.14 333 PKP 10 34.83 1.1
 TCF 146.18 341 ePKP 10 34.30 0.6
 AUTN 146.19 333 PKP 10 34.82 0.7
 TOUF 146.25 334 PKP 10 35.36 1.2
 SBF 146.29 333 ePKP 10 34.30 0.2
 AURF 146.32 333 PKP 10 35.19 1.1
 MVIF 146.39 334 PKP 10 35.62 1.3
 PYM 146.40 340 PKP 10 36.33 2.1
 LSF 146.42 342 ePKP 10 34.90 0.8
 MNO 146.54 319 PKP 10 36.10 1.3
 MFF 146.57 344 ePKP 10 35.50 1.2
 CALN 146.62 334 PKP 10 36.44 1.8
 CVF 146.65 330 PKP 10 36.40 1.8
 LBL 146.78 339 PKP 10 37.76 3.1X
 MEU 146.87 317 PKP 10 36.40 1.2
 FRF 146.88 334 ePKP 10 36.30 1.4
 PZI 146.92 317 PKP 10 37.36 2.1
 USI 147.01 321 PKP 10 35.40 0.2
 LRG 147.08 334 ePKP 10 37.10 1.9
 LMR 147.12 334 ePKP 10 37.00 1.7
 RJF 147.28 341 ePKP 10 37.70 2.2X
 CAF 147.44 340 ePKP 10 38.40 2.6X
 BNG 147.57 255 iPKPc 10 35.90 -1.0

0.5s 143.00nm
 ic 10 39.30
 ic 11 18.50
 ic 11 35.00
 LFF 147.84 342 ePKP 10 39.30 2.9X
 LPO 147.94 341 ePKP 10 39.50 2.9X
 LVI 147.98 321 PKP 10 39.70 2.9
 CGL 148.80 326 PKP 10 39.04 0.8
 ETER 149.46 337 e(PKP) 10 43.30 4.3X
 EPF 149.69 341 ePKP 10 43.70 4.3X
 ECR1 150.90 344 e(PKP) 10 48.50 7.3X
 EMON 151.06 352 e(PKP) 10 48.00 6.6X
 ESEL 151.59 334 e(PKP) 10 49.00 6.7X
 EROO 151.64 339 e(PKP) 10 49.00 6.7X
 STS 151.76 354 e(PKP) 10 49.80 7.4X
 ETOR 152.44 342 e(PKP) 10 51.50 7.9X
 GUD 153.17 345 e(PKP) 10 53.00 8.3X
 LEGH 164.71 235 ePKP 10 59.00 0.6
 KOGH 165.02 236 iPKPd 10 57.80 -0.9
 KUK 165.19 236 ePKP 11 00.00 1.2
 KIC 168.56 224 PKP 11 00.76 -0.5
 1.0s 55.00nm
 LIC 168.65 222 PKP 11 00.78 -0.5
 1.0s 48.00nm
 TIC 168.95 224 PKP 11 00.98 -0.5
 1.0s 46.00nm
 S.D. = 1.1 on 214 of 261 obs.

* FEB 23, 1989 06h 03m 36.99±1.36s
 38.592 N ± 8.8km 20.199 E ± 17.3km
 DEPTH = 10.0km (geophysicist)

GREECE (364)
 MD 3.2 (ATH).

VLS 0.52 143 ePg 03 46.50 -0.9
 eSg 03 54.50
 LSK 1.59 11 ePn 04 05.80 0.5
 VLO 1.95 344 ePn 04 15.70 5.3X
 ITM 1.96 135 ePb 04 12.00 1.3
 eSn 04 38.00
 KBN 2.08 13 ePn 04 20.00 7.7X
 KZN 2.10 35 ePb 04 12.50 -0.2
 BERA 2.12 355 ePn 04 13.50 0.7
 NEO 2.46 72 ePn 04 17.50 -0.4
 OHR 2.56 10 iPn 04 19.90 0.7
 LACI 3.06 353 ePn 04 25.80 -0.5
 VAY 3.28 33 ePn 04 34.50 5.1X
 PUK 3.45 356 ePn 04 30.60 -1.2
 SKO 3.51 15 ePn 04 40.50 7.9X
 S.D. = 1.0 on 9 of 13 obs.

? FEB 23, 1989 06h 26m 00.79±1.82s
 6.590 N ± 24.5km 94.628 E ± 11.3km
 DEPTH = 33.0km (normal)
 3.7mb (2 obs.)
 NICOBAR ISLANDS REGION (704)

SNG 5.97 84 eP 27 28.50 -0.8
 IPM 6.67 107 ePc 27 56.90 17.8X
 NNT 7.80 40 iPc 27 56.00 1.1
 CHG 12.86 19 eP 29 03.80 -0.2
 GBA 18.30 294 Pd 30 13.80 -0.1
 0.9s 3.00nm 3.5mb
 PKI 22.63 338 P 30 59.00 -1.6
 HFS 79.80 330 eP 38 08.70 1.6
 0.5s 0.80nm 4.0mb
 S.D. = 1.5 on 6 of 7 obs.

* FEB 23, 1989 06h 50m 19.36±0.79s
 27.984 S ± 9.8km 25.937 E ± 11.0km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)

KIM 1.27 233 iPd 50 44.30 0.7
 0.6s 326.67nm
 S 50 58.50
 SEK 1.53 103 iPc 50 47.80 0.3
 PRY 1.72 53 iPd 50 50.60 0.3
 S 50 58.00
 FRS 1.84 197 iPc 50 51.00 -0.8
 S 51 07.00
 KSR 2.28 22 eP 50 59.80 1.4
 S 51 24.00
 SLR 3.07 44 iPc 51 10.00 0.5
 0.7s 75.34nm
 i 52 08.50
 S 51 26.00
 EVA 3.16 63 eP 51 10.50 -0.4
 S 51 26.00
 BUL 8.18 18 iPn 52 19.70 -2.0
 iSn 53 46.00
 S.D. = 1.3 on 8 of 8 obs.

* FEB 23, 1989 07h 07m 38.94±1.56s
 11.455 N ± 7.3km 141.942 E ± 11.4km
 DEPTH = 47.0 ± 15.9 km
 4.6mb (4 obs.) 4.3msz (1 obs.)
 WEST CAROLINE ISLANDS (209)

PJG 3.56 53 eP 08 32.80 -0.2
 GUA 3.56 54 eP 08 33.50 0.3
 eS 09 15.80
 PMG 21.37 166 e(P) 12 25.00 0.5
 SSE 27.40 319 eP 13 20.70 -1.4
 WB5 32.02 194 eP 14 04.00 0.7
 WRA 32.09 194 Pc 14 04.80 0.9
 0.9s 3.00nm 4.1mb
 BJI 36.46 326 eP 14 41.00 -0.3
 TIY 37.17 320 eP 14 47.50 0.1
 Z 20s 0.50um 4.3msz
 XAN 37.58 312 P 14 51.00 0.2
 BRS 40.02 165 P 15 09.00 -2.2
 e 23 04.00
 LZH 42.22 312 eP 15 30.00 0.7
 1.5s 44.00nm 5.0mb
 GTA 46.53 314 P 16 04.00 0.1
 WMO 56.58 315 iPc 17 20.20 0.7
 GBA 62.85 279 Pd 18 02.10 -0.6
 0.6s 1.40nm 4.3mb
 POO 65.83 285 eP 18 06.50 -15.7X
 INK 77.42 22 eP 19 29.50 -0.9
 MBC 81.02 14 eP 19 50.00 0.2
 YKA 86.05 27 P 20 16.50 0.9
 YKC 86.11 27 eP 20 16.50 0.5
 0.6s 5.00nm 4.9mb
 LPB 150.44 103 ePKP 27 29.00 6.2X
 ZOBO 150.44 103 PKPc 27 30.80 7.8X
 CNCB 150.52 104 PKP 27 32.00 8.9X
 S.D. = 0.9 on 18 of 22 obs.

? FEB 23, 1989 07h 52m 58.47±9.36s
 22.764 N ± 80.8km 121.018 E ± 10.9km
 DEPTH = 10.0km (geophysicist)
 TAIWAN REGION (243)

TWG 0.08 41 iPc 53 00.90 0.0
 eS 53 02.60
 TWK 0.70 316 ePc 53 12.30 0.0
 eS 53 23.20
 TWD 1.41 22 eP 53 23.90 -0.3
 TWQ 1.51 354 ePd 53 25.70 0.1
 eS 53 46.60
 TWC 1.99 22 eP 53 32.70 0.2
 S.D. = 0.3 on 5 of 5 obs.

% FEB 23, 1989 10h 01m 10.78±0.77s
 41.110 N ± 8.7km 28.482 E ± 8.1km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

CTI 0.05 313 iPg 01 12.30 -0.7
 BNT 0.87 210 iPg 01 27.50 0.1
 YLV 0.87 128 iPg 01 27.50 0.0
 DMK 0.90 323 ePg 01 28.50 0.6
 eSg 01 41.30
 HRT 0.94 107 ePg 01 28.80 0.0
 S.D. = 0.6 on 5 of 5 obs.

* FEB 23, 1989 10h 31m 23.72±0.61s
 21.704 S ± 24.3km 169.777 E ± 14.2km
 DEPTH = 33.0km (normal)
 LOYALTY ISLANDS REGION (189)

DZM 3.12 263 iPc 32 11.10 -0.7
 iS 32 53.20
 SGE 8.70 63 iPd 33 29.00 -1.4
 RMO 19.77 252 eP 36 01.00 7.0X
 CTA 22.03 270 iPd 36 28.00 10.8X
 1.2s 28.13nm
 CNB 22.43 228 eP 36 21.00 -0.2
 BWA 22.66 231 eP 36 18.90 -4.5X
 e 36 21.50
 CAN 22.69 229 eP 36 23.80 0.1
 CMS 23.48 240 iPc 36 31.30 -0.1
 WB5 33.11 267 eP 37 57.00 -2.1
 CHG 80.13 295 eP 43 34.10 1.6
 KSP 144.28 331 ePKP 50 53.00 -4.8X
 BRG 145.29 333 iPKPc 50 58.80 -0.7
 1.0s 17.00nm

CLL 145.35 334 iPKPc 50 58.70 -0.9
 i 51 06.90
 PRU 145.68 331 PKPc 51 00.00 -0.2
 e 51 07.70
 ZST 145.69 327 ePKP 51 00.60 0.3
 MOX 146.42 335 e(PKP) 51 04.00 2.6X
 e 51 10.00
 SKO 146.64 315 ePKP 51 03.00 1.0
 i 51 10.50
 KHC 146.73 331 iPKPc 51 03.30 1.3
 1.0s 7.00nm
 BNG 147.25 242 ePKPc 51 04.20 0.3
 0.7s 6.00nm
 id 51 13.80
 OHR 147.46 314 ePKP 51 05.00 1.5
 KBA 148.32 329 ePKP 51 13.50 8.7X
 1.0s 5.60nm
 S.D. = 1.1 on 15 of 21 obs.

FEB 23, 1989 10h 57m 58.17±0.60s
 39.212 N ± 4.2km 122.348 W ± 7.4km
 DEPTH = 5.0km (geophysicist)
 NORTHERN CALIFORNIA (36)
 ML 2.7 (BRK).

ORV 0.74 62 iPd 58 12.90 -0.1
 iS 58 22.00
 NWRM 0.86 209 eP 58 15.50 0.3
 LTCM 1.01 10 eP 58 18.50 0.8
 MIN 1.27 27 eP 58 21.70 -0.6
 WDC 1.37 354 eP 58 22.90 -1.0
 CMB 1.94 127 eP 58 32.30 0.2
 MHC 1.95 163 eP 58 31.80 -0.6
 ARN 1.97 161 eP 58 32.70 0.1
 FHC 2.02 322 eP 58 42.20 8.8X
 LBFM 2.16 9 eP 58 36.30 0.8
 KVN 3.31 91 eP 58 52.00 0.1
 S.D. = 0.7 on 10 of 11 obs.

* FEB 23, 1989 11h 08m 22.85±1.62s
 4.854 S ± 21.0km 103.106 E ± 18.1km
 DEPTH = 75.1 ± 11.7 km
 4.9mb (7 obs.)
 SOUTHERN SUMATRA (274)

KSI 1.32 337 iPd 08 45.90 0.0
 iS 08 59.90
 e 12 41.00
 KLI 1.74 90 eP 08 52.00 0.3
 eS 09 24.00
 CHG 23.87 350 eP 13 30.00 -0.5
 GBA 31.39 306 Pc 14 38.50 -0.5

23d 11h

0.4s 2.40nm 4.3mb
 WB5 33.90 119 eP 15 00.30 -0.5
 WRA 33.90 119 Pc 14 59.90 -0.9
 0.4s 3.00nm 4.6mb
 NDI 41.62 325 iPc 16 05.00 -0.3
 0.8s 59.70nm 5.5mb
 STK 44.95 131 eP 16 33.00 0.7
 KJF 88.03 335 iP 21 06.00 0.3
 0.7s 16.00nm 5.3mb
 SUF 88.34 333 iP 21 07.70 0.5
 0.4s 3.30nm 4.8mb
 NUR 88.53 331 iP 21 08.70 0.6
 0.7s 9.30nm 5.1mb
 SOD 89.27 338 iP 21 11.80 0.2
 HFS 93.88 330 eP 21 33.00 0.1
 0.4s 1.30nm 4.7mb

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

* FEB 23, 1989 11h 27m 58.30±1.61s
 24.269 N ±20.2km 123.255 E ±14.7km
 DEPTH = 10.0km (geophysicist)
 4.5mb (1 obs.)

SOUTHWESTERN RYUKYU ISLANDS (246)

TWC 1.33 285 iPd 28 21.60 -1.1
 eS 28 32.60
 TWD 1.53 263 iPd 28 24.90 -0.7
 eS 28 40.10
 ANP 1.82 300 eP 28 31.00 1.0
 TWQ 2.21 271 iPd 28 35.70 0.1
 TWK 2.72 249 ePc 28 44.00 1.0
 WB5 45.20 165 eP 36 17.30 -0.1
 WRA 45.25 165 Pc 36 17.60 -0.2
 0.8s 4.90nm 4.5mb
 WARB 50.26 176 eP 36 47.50 -9.3X
 S.D. = 1.0 on 7 of 8 obs.

* FEB 23, 1989 12h 40m 33.08±0.53s
 21.913 S ± 8.2km 169.899 E ±10.5km
 DEPTH = 26.2km (2 depth phases)
 4.8mb (4 obs.) 5.1msz (1 obs.)

LOYALTY ISLANDS REGION (189)

DZM 3.21 267 iPd 41 22.00 -1.1
 iS 42 04.00
 PVC 4.41 340 iPc 41 41.30 1.3
 iS 42 46.50
 VUN 8.94 66 eP 42 39.00 -4.6X
 HNR 15.67 321 eP 44 18.00 4.2X
 eS 48 12.00
 BRS 16.49 247 iPc 44 23.00 -1.3
 i 44 29.00
 iS 48 13.50
 KRP 16.68 164 P 44 28.00 1.4
 WEL 19.75 169 P 45 03.00 -0.9
 RMQ 19.81 253 eP 45 12.00 7.3X
 PAA 20.85 316 eP 45 23.00 7.3X
 CTA 22.15 270 eP 45 32.00 3.4X
 1.0s 31.00nm 4.7mb
 iS 49 37.00

CNB 22.38 229 eP 45 33.00 2.1
 BWA 22.62 232 eP 45 32.80 -0.4
 CAN 22.64 229 eP 45 34.80 1.4
 CMS 23.48 241 iPc 45 42.50 0.9
 RAB 24.62 313 e(P) 45 52.00 -0.7
 PMG 25.14 296 e(P) 45 59.00 1.3
 WB5 33.21 267 eP 47 09.00 -1.2
 WRA 33.23 267 Pc 47 09.10 -1.2
 1.1s 5.20nm 4.4mb

JAY 34.30 300 iPd 47 28.50 8.8X
 MTN 37.99 277 eP 47 50.00 -0.9
 MAT 65.39 332 eP 51 14.00 -1.6
 SPA 68.22 180 e(P) 51 31.00 -2.4
 1.0s 19.50nm 5.2mb
 MDJ 75.76 332 eP 52 18.00 -0.2
 TIA 76.34 318 Pc 52 22.20 0.5
 CN2 77.05 329 eP 52 24.00 -1.5
 pP 52 33.00 29km
 BJI 79.39 321 eP 52 39.00 0.6
 Z 26s 0.34um 4.6mszX
 TIY 80.21 317 eP 52 43.50 0.6
 Z 14s 0.60um 5.1mszX
 S 02 36.50
 SKS 02 50.00

CHG 80.32 295 iPd 52 46.00 2.1
 1.0s 12.25nm 4.9mb
 XAN 80.36 313 eP 52 44.00 0.2

HHC 82.64 319 eP 52 55.80 0.1
 LZH 84.97 312 eP 53 10.00 2.4X
 1.5s 0.04nm 2.5mb X
 pP 53 17.50 24km
 SHL 89.15 298 iP 53 29.40 1.2
 GTA 89.40 313 eP 53 29.00 0.0
 FRB 123.26 27 ePKP 59 26.00 -2.5
 KSP 144.52 331 ePKP 00 06.50 -2.1
 i 00 16.70
 BRG 145.52 333 iPKPd 00 09.60 -0.7
 1.2s 38.00nm
 SRO 145.55 325 e(PKP) 00 09.90 -0.5
 i 00 26.20
 CLL 145.58 334 iPKPd 00 09.50 -0.9
 1.3s 31.00nm
 i 00 16.60

eSg 13 52.00
 PRU 145.92 331 PKP 00 11.00 0.0
 ZST 145.93 327 i(PKP) 00 12.50 1.4
 e 00 22.00

VAY 146.39 313 ePKP 00 13.00 1.0
 MOX 146.66 335 ePKP 00 15.00 2.8X
 e 00 23.00

SKO 146.87 314 iPKP 00 15.00 2.2X
 i 00 21.00
 i 00 31.50

KHC 146.97 331 iPKPd 00 14.80 2.0
 1.0s 11.50nm
 i 00 24.80

BNG 147.25 242 iPKPd 00 16.20 1.9
 0.7s 15.00nm
 ic 00 25.30

GRF 147.56 334 ePKP 00 17.50 3.8X
 Z 19s 0.30um 5.1msz
 e 00 26.50

OHR 147.69 313 ePKP 00 17.00 2.8X
 i 00 26.10
 i 00 33.90

KBA 148.55 329 e(PKP) 00 20.00 4.4X
 0.8s 10.00nm
 i 00 24.60
 i 00 30.10

VBY 148.64 325 e(PKP) 00 18.30 2.8X
 LJU 148.67 326 e(PKP) 00 18.50 2.9X
 CEY 148.93 326 e(PKP) 00 20.50 4.5X

VOY 149.01 327 ePKP 00 19.20 3.0X
 TRI 149.29 326 ePKP 00 20.00 3.5X
 i 00 27.00

CDP 150.13 336 ePKP 00 22.20 4.4X
 BSF 150.79 336 ePKP 00 23.90 5.0X
 HAU 150.81 337 ePKP 00 24.10 5.3X
 FLN 152.13 346 ePKP 00 26.00 5.3X

0.8s 10.70nm
 GRR 152.57 347 ePKP 00 27.90 6.6X
 LPG 152.73 334 ePKP 00 29.40 7.4X
 0.5s 4.30nm

LPF 152.94 347 ePKP 00 28.80 7.0X
 S.D. = 1.4 on 36 of 60 obs.

* FEB 23, 1989 13h 07m 44.12±0.87s
 39.254 N ± 7.7km 27.723 E ± 8.5km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

DST 0.78 63 ePn 07 59.40 0.0
 IZM 0.93 203 ePn 08 01.80 -0.1
 KCT 1.11 26 iPn 08 05.40 0.5
 BNT 1.11 8 iPn 08 04.40 -0.6
 EZN 1.22 298 ePn 08 07.00 0.2
 S.D. = 0.5 on 5 of 5 obs.

* FEB 23, 1989 13h 11m 18.49±0.93s
 47.343 N ± 9.2km 16.815 E ± 9.8km
 DEPTH = 10.0km (geophysicist)

AUSTRIA (546)

ML 3.1 (VKA), 2.9 (KBA).
 SOP 0.38 333 ePn 11 26.50 0.2
 ZST 0.88 13 i(Pn) 11 38.50 3.2X
 i(Sn) 11 55.00

VKA 0.98 340 ePn 11 40.00 2.9X
 iSg 12 02.00
 SRO 1.12 65 iPn 11 39.30 -0.1
 i 11 58.90
 i 12 03.40

PTJ 1.56 203 ePn 11 41.80 -4.6X

eSn 11 55.60
 LJU 2.04 231 e(Pn) 11 53.00 -0.3
 eSn 12 19.20
 VBY 2.13 211 e(Pn) 11 55.40 0.8
 eSn 12 12.10
 CEY 2.30 227 eP 12 01.00 3.9X
 eSn 12 29.00
 KBA 2.38 265 ePg 12 03.50 5.2X
 iSn 12 27.80
 iSg 12 40.30
 VOY 2.40 238 iPnd 12 00.10 1.6
 eSn 12 33.90
 RBL 2.40 249 P 11 58.20 -0.3
 TRI 2.67 233 eP 12 00.40 -1.8
 e 12 03.80
 i 12 28.70
 i 12 40.50

S.D. = 1.3 on 7 of 12 obs.

? FEB 23, 1989 13h 50m 51.05±4.00s
 34.543 S ±28.9km 72.483 W ±21.1km
 DEPTH = 10.0km (geophysicist)

NEAR COAST OF CENTRAL CHILE (135)

LCCH 1.31 36 iPc 51 15.10 -0.1
 iS 51 39.20
 TACH 1.56 56 iP 51 18.50 -0.4
 iS 51 45.50
 CHCH 1.63 69 iP 51 20.30 0.3
 iS 51 47.50
 PCH 1.88 61 iPd 51 23.50 0.0
 iS 51 53.00
 ROCH 1.99 38 eP 51 26.00 0.7
 FCH 2.19 57 iPd 51 28.00 -0.3
 iS 52 04.00
 CNCB 18.12 14 P 55 05.00 0.0
 LPB 18.36 13 P 55 11.00 3.1X
 ZOBO 18.61 13 P 55 11.00 -0.2

S.D. = 0.4 on 8 of 9 obs.

? FEB 23, 1989 14h 32m 01.34±4.18s
 44.964 N ± 9.9km 28.496 E ±37.1km
 DEPTH = 10.0km (geophysicist)

ROMANIA (358)

CFR 0.33 312 iPc 32 07.00 -1.1
 TLB 0.50 221 iPc 32 11.00 -0.5
 ISR 1.39 278 ePd 32 29.00 2.1X
 PPE 1.40 334 ePd 32 23.00 -3.8X
 BIR 1.44 335 eP 32 47.00 19.6X
 VRI 1.54 307 ePd 32 29.50 0.6
 CLI 1.80 332 ePd 32 32.50 -0.1
 MLR 1.88 287 ePd 32 35.00 1.1

S.D. = 1.2 on 5 of 8 obs.

* FEB 23, 1989 15h 37m 12.33±0.91s
 43.416 N ± 7.2km 5.468 E ± 6.5km
 DEPTH = 10.0km (geophysicist)

NEAR SOUTH COAST OF FRANCE (379)

MD 2.5 (STR).
 GELF 0.04 222 Pg 37 14.46 0.0
 PUYF 0.20 56 Pg 37 16.43 -0.4
 TREF 0.22 344 Pg 37 16.43 -0.6
 PRAF 0.44 331 Pg 37 21.74 0.3
 VILF 0.47 22 Pg 37 21.59 -0.3
 TAVF 0.47 65 Pg 37 22.01 0.0
 GANF 0.66 29 Pg 37 26.48 0.9

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

* FEB 23, 1989 16h 38m 49.25±3.43s
 19.465 N ±40.6km 64.345 W ± 8.1km
 DEPTH = 33.0km (normal)

VIRGIN ISLANDS (91)

LPR 1.85 232 iP 39 18.70 -0.5
 CSB 2.08 236 iP 39 22.00 -0.5
 S 39 43.00
 SJG 2.18 232 iP 39 23.40 -0.5
 APR 2.47 246 iP 39 28.80 0.7
 SKDB 2.52 144 eP 39 30.48 1.7X
 eS 40 03.80
 SKI 2.61 144 eP 39 30.78 0.7
 eS 40 02.23
 MCP 2.82 249 iP 39 33.20 0.3
 MGP 2.98 241 iP 39 35.50 0.3
 CPB 3.00 127 eP 39 41.50 5.9X

| | | | | | | |
|-----|------|-----|----|----|-------|------|
| ANG | 3.31 | 133 | eS | 40 | 16.00 | |
| | | | eP | 39 | 39.97 | -0.1 |
| | | | eS | 40 | 19.10 | |
| MGH | 3.40 | 143 | eP | 39 | 42.38 | 1.1 |
| | | | S | 40 | 26.00 | |
| SEG | 4.07 | 138 | eP | 39 | 50.57 | -0.2 |
| PAG | 4.26 | 143 | eP | 39 | 53.68 | 0.2 |
| | | | S | 40 | 43.00 | |
| DOG | 4.29 | 142 | eP | 39 | 54.10 | 0.1 |
| DEG | 4.43 | 135 | eP | 39 | 54.40 | -1.6 |
| MGG | 4.56 | 140 | eP | 39 | 57.70 | 0.0 |
| BBL | 4.78 | 145 | eP | 40 | 00.93 | 0.1 |

S.D. = 0.7 on 15 of 17 obs.

FEB 23, 1989 17h 27m 56.51±0.99s
39.270 N ± 8.4km 27.711 E ± 9.8km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

| | | | | | | |
|-----|------|-----|-----|----|-------|------|
| DST | 0.79 | 64 | ePg | 28 | 12.50 | 0.7 |
| | | | eSg | 28 | 22.50 | |
| IZM | 0.94 | 202 | ePn | 28 | 14.00 | -0.4 |
| EDC | 1.08 | 6 | ePn | 28 | 15.00 | -1.9 |
| BNT | 1.10 | 8 | iPn | 28 | 17.70 | 0.6 |
| KCT | 1.10 | 27 | iPn | 28 | 17.30 | 0.2 |
| EZN | 1.21 | 298 | ePn | 28 | 19.80 | 0.8 |
| YLV | 1.82 | 44 | ePn | 28 | 31.30 | 3.1X |

S.D. = 1.3 on 6 of 7 obs.

FEB 23, 1989 17h 52m 46.04±0.98s
40.000 N ± 22.7km 26.800 E ± 10.3km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

| | | | | | | |
|-----|------|-----|-----|----|-------|-----|
| EZN | 0.40 | 245 | iPg | 52 | 54.30 | 0.0 |
| | | | iSg | 52 | 59.80 | |
| EDC | 0.89 | 67 | ePg | 53 | 03.00 | 0.0 |
| | | | eSg | 53 | 16.00 | |
| BNT | 0.93 | 67 | iPn | 53 | 03.80 | 0.0 |
| KCT | 1.22 | 78 | iPn | 53 | 08.80 | 0.0 |
| DST | 1.46 | 105 | ePn | 53 | 12.50 | 0.0 |

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

FEB 23, 1989 19h 16m 44.52±0.47s
46.488 N ± 10.8km 153.682 E ± 5.3km
DEPTH = 33.0km (normal)
4.9mb (27 obs.)

KURIL ISLANDS (221)

| | | | | | | |
|------|-------|-----|-----|----|-------|-------|
| MRRJ | 9.89 | 250 | eP | 19 | 04.00 | -3.3X |
| | | | eS | 20 | 52.30 | |
| MAT | 15.24 | 235 | iPc | 20 | 10.40 | -8.5X |
| | | | eS | 24 | 22.00 | |
| MDJ | 16.96 | 272 | eP | 20 | 40.00 | -0.7 |
| CN2 | 20.05 | 273 | eP | 21 | 13.00 | -4.5X |
| SNY | 22.02 | 269 | eP | 21 | 36.00 | -1.5 |
| BJI | 27.87 | 270 | (P) | 22 | 35.00 | 2.1 |
| TIY | 31.53 | 269 | eP | 23 | 06.00 | 0.3 |
| TTA | 32.36 | 41 | ePc | 23 | 12.90 | 0.2 |
| SVW | 32.38 | 45 | eP | 23 | 13.50 | 0.6 |
| IMA | 33.79 | 36 | ePc | 23 | 25.10 | -0.1 |

S.D. = 0.7 on 7.90nm 4.7mb

| | | | | | | |
|-----|-------|----|------|---------|-------|------|
| KDC | 34.02 | 51 | P | 23 | 26.10 | -0.9 |
| | | | 0.8s | 34.48nm | 5.3mb | |
| BRW | 34.02 | 26 | P | 23 | 30.60 | 3.7X |
| PMR | 35.52 | 44 | eP | 23 | 39.70 | -0.1 |
| | | | 0.8s | 11.50nm | 4.9mb | |

| | | | | | | |
|-----|-------|-----|------|---------|-------|-----|
| FBA | 36.13 | 38 | ePc | 23 | 45.20 | 0.3 |
| TOA | 36.90 | 43 | eP | 23 | 52.20 | 0.7 |
| LZH | 38.29 | 273 | eP | 24 | 04.00 | 0.3 |
| | | | 1.0s | 37.00nm | 5.2mb | |

| | | | | | | |
|-----|-------|-----|----|----|-------|------|
| CD2 | 41.25 | 266 | eP | 24 | 28.60 | 0.6 |
| INK | 41.66 | 32 | eP | 24 | 32.00 | 1.1 |
| GYA | 42.04 | 258 | P | 24 | 34.20 | -0.5 |
| MBC | 44.71 | 20 | eP | 24 | 56.00 | 0.4 |
| ALE | 49.96 | 6 | eP | 25 | 36.50 | -0.1 |

| | | | | | | |
|-----|-------|----|------|---------|-------|-----|
| | | | 0.6s | 7.00nm | 4.9mb | |
| YKA | 50.90 | 37 | P | 25 | 44.70 | 0.8 |
| YKC | 50.96 | 37 | ePc | 25 | 44.50 | 0.1 |
| | | | 0.7s | 13.00nm | 5.0mb | |

| | | | | | | |
|------|-------|-----|------|--------|-------|-----|
| CHG | 52.44 | 257 | eP | 25 | 56.60 | 0.4 |
| CHTO | 52.44 | 257 | iP | 25 | 56.20 | 0.0 |
| | | | 1.0s | 7.50nm | 4.6mb | |

| | | | | | | |
|-----|-------|-----|----|----|-------|--------|
| DAG | 56.93 | 358 | eP | 26 | 09.00 | 46kmX |
| KEV | 57.72 | 341 | eP | 26 | 18.00 | -10.1X |
| SOD | 59.64 | 339 | iP | 26 | 46.20 | -1.0 |

| | | | | | | |
|-----|-------|-----|------|---------|-------|------|
| FFC | 60.69 | 40 | iPc | 26 | 54.60 | 0.1 |
| | | | 0.8s | 16.00nm | 5.2mb | |
| LRM | 61.04 | 53 | eP | 26 | 57.70 | 0.3 |
| KJF | 61.81 | 336 | iP | 27 | 01.20 | -0.8 |
| | | | 0.7s | 12.00nm | 5.1mb | |
| KVN | 61.94 | 62 | P | 27 | 03.00 | -0.5 |
| HP1 | 61.99 | 55 | P | 27 | 03.90 | 0.0 |
| TNP | 63.09 | 62 | P | 27 | 10.70 | -0.4 |

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|------|-------|-----|------|--------|-------|------|
| | | | 0.6s | 2.01nm | 4.4mb | |
| SUF | 63.41 | 336 | iP | 27 | 11.80 | -0.8 |
| | | | 0.4s | 5.30nm | 5.0mb | |
| BW06 | 64.58 | 54 | P | 27 | 20.60 | -0.2 |
| | | | 0.9s | 7.10nm | 4.8mb | |

| | | | | | | |
|------|-------|-----|------|--------|-------|------|
| FRB | 65.17 | 19 | eP | 27 | 23.00 | -1.0 |
| NUR | 65.61 | 335 | iP | 27 | 25.40 | -1.5 |
| RSON | 67.00 | 39 | P | 27 | 35.30 | -0.6 |
| | | | 0.8s | 6.16nm | 4.8mb | |

| | | | | | | |
|------|-------|-----|------|--------|-------|------|
| NB2 | 68.60 | 341 | P | 27 | 45.10 | -0.7 |
| | | | 0.7s | 1.51nm | 4.2mb | |
| NRA0 | 68.80 | 341 | P | 27 | 46.20 | -0.8 |
| HFS | 68.84 | 340 | eP | 27 | 45.50 | -1.7 |

| | | | | | | |
|-----|-------|-----|------|---------|-------|------|
| GBA | 70.81 | 270 | Pd | 27 | 58.80 | -1.1 |
| | | | 0.6s | 20.50nm | 5.4mb | |
| | | | 0.8s | 3.60nm | 4.5mb | |
| ALQ | 71.64 | 59 | eP | 28 | 04.00 | -0.9 |

| | | | | | | |
|-----|-------|-----|------|---------|-------|-----|
| | | | 0.7s | 1.71nm | 4.2mb | |
| KSP | 76.31 | 334 | eP | 28 | 31.70 | 0.3 |
| CLL | 76.86 | 336 | iP | 28 | 34.70 | 0.2 |
| | | | 1.0s | 18.00nm | 5.1mb | |

| | | | | | | |
|-----|-------|-----|-----|----|-------|-----|
| VRI | 76.88 | 325 | eP | 28 | 36.00 | 1.3 |
| MLR | 77.50 | 325 | ePc | 28 | 39.00 | 0.7 |
| MOX | 77.85 | 336 | eP | 28 | 41.00 | 1.1 |
| KHC | 78.64 | 335 | P | 28 | 45.30 | 0.9 |

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|-----|-------|-----|-----|----|-------|------|
| GRF | 78.82 | 336 | eP | 28 | 46.20 | 0.9 |
| BZS | 79.05 | 328 | eP | 28 | 46.50 | 0.0 |
| ELC | 79.33 | 46 | P | 28 | 48.20 | -0.1 |
| KBA | 80.55 | 334 | iPd | 28 | 55.60 | 0.7 |

| | | | | | | |
|-----|-------|-----|------|---------|-------|------|
| | | | 0.7s | 17.10nm | 5.2mb | |
| | | | i | 28 | 57.00 | |
| CDF | 81.05 | 338 | eP | 28 | 57.10 | -0.2 |
| | | | 0.7s | 7.40nm | 4.8mb | |

| | | | | | | |
|-----|-------|-----|----|----|-------|------|
| HAU | 81.66 | 339 | eP | 29 | 01.00 | 0.5 |
| BSF | 81.71 | 338 | eP | 29 | 00.30 | -0.5 |
| GRR | 82.93 | 343 | eP | 29 | 06.90 | -0.1 |
| LOR | 82.96 | 340 | eP | 29 | 06.80 | -0.4 |

| | | | | | | |
|-----|-------|-----|------|---------|-------|------|
| | | | 1.0s | 12.00nm | 4.9mb | |
| SSF | 83.24 | 340 | eP | 29 | 08.40 | -0.2 |
| | | | 0.9s | 5.50nm | 4.7mb | |
| AVF | 83.53 | 340 | eP | 29 | 10.10 | 0.0 |

| | | | | | | |
|-----|-------|-----|------|---------|-------|-----|
| | | | 0.9s | 12.10nm | 5.0mb | |
| SMF | 83.55 | 340 | eP | 29 | 10.40 | 0.2 |
| | | | 0.9s | 16.30nm | 5.2mb | |
| LPG | 83.88 | 337 | eP | 29 | 12.90 | 0.6 |

| | | | | | | |
|-----|-------|-----|------|---------|-------|-----|
| | | | 0.7s | 5.50nm | 4.8mb | |
| MAF | 84.25 | 340 | eP | 29 | 14.30 | 0.5 |
| | | | 0.7s | 11.40nm | 5.2mb | |
| CAF | 85.59 | 340 | eP | 29 | 22.00 | 1.5 |

| | | | | | | |
|-----|-------|-----|------|--------|-------|------|
| | | | 0.8s | 4.50nm | 4.7mb | |
| MBH | 86.12 | 310 | eP | 29 | 26.50 | 3.2X |

S.D. = 0.8 on 59 of 66 obs.

* FEB 23, 1989 19h 16m 52.34±2.30s
36.380 N ± 14.8km 71.284 E ± 12.6km
DEPTH = 61.6 ± 24.8 km
4.1mb (2 obs.)

AFGHANISTAN-USSR BORDER REGION (717)

| | | | | | | |
|------|------|-----|-----|----|-------|------|
| QUE | 7.16 | 212 | eP | 18 | 37.20 | 0.3 |
| | | | eS | 19 | 55.00 | |
| NDI | 9.16 | 145 | iPd | 19 | 04.50 | 0.2 |
| MAIO | 9.51 | 273 | eP | 19 | 09.00 | -0.2 |

| | | | | | | |
|-----|-------|-----|----|----|-------|------|
| | | | eS | 20 | 46.00 | |
| HYB | 19.96 | 159 | eP | 21 | 21.50 | -0.6 |
| SHL | 20.65 | 116 | iP | 21 | 29.00 | -0.3 |
| GBA | 23.34 | 165 | Pc | 21 | 56.20 | 0.3 |

| | | | | | | |
|-----|-------|-----|------|--------|-------|------|
| | | | 0.8s | 3.50nm | 3.9mb | |
| NB2 | 44.61 | 323 | P | 24 | 59.60 | -0.4 |
| | | | 0.9s | 6.50nm | 4.4mb | |
| YKA | 81.36 | 3 | P | 29 | 03.80 | 0.7 |

S.D. = 0.6 on 8 of 8 obs.

? FEB 23, 1989 19h 58m 25.08±7.34s
52.145 N ± 34.2km 4.205 W ± 46.5km
DEPTH = 10.0km (geophysicist)

UNITED KINGDOM (533)

YRH 0.74 340 eP 58 39.80 0.3

| | | | | | | |
|-----|------|-----|-----|----|-------|------|
| ECP | 1.33 | 272 | eS | 58 | 49.30 | |
| | | | eP | 58 | 50.00 | 0.4 |
| | | | eS | 59 | 07.20 | |
| ETA | 1.35 | 295 | iPc | 58 | 50.20 | 0.4 |
| | | | eS | 59 | 07.60 | |
| ECB | 1.60 | 279 | eP | 58 | 53.40 | 0.0 |
| | | | eS | 59 | 13.80 | |
| DLE | 1.83 | 310 | iPc | 58 | 56.40 | -0.3 |
| | | | eS | 59 | 20.00 | |
| DCN | 2.22 | 304 | eP | 59 | 02.20 | -0.2 |
| | | | eS | 59 | 33.00 | |
| DMU | 2.40 | 318 | eP | 59 | 04.80 | -0.2 |
| | | | eS | 59 | 38.00 | |

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

FEB 23, 1989 20h 37m 07.69±1.40s
1.186 S ± 7.8km 126.879 E ± 11.6km
DEPTH = 38.9 ± 14.3 km
4.8mb (4 obs.)

MOLUCCA SEA (269)

| | | | | | | |
|-----|------|-----|-----|----|-------|-----|
| AAI | 2.81 | 152 | ePd | 37 | 52.90 | 1.6 |
| | | | eS | 38 | 26.50 | |
| MNI | 3.31 | 322 | eP | 38 | 00.50 | 2.1 |
| | | | eS | 38 | 40.40 | |

| | | | | | | |
|-----|------|-----|-------|----|-------|------|
| PCI | 7.05 | 272 | ePd | 38 | 50.60 | -0.5 |
| | | | eS | 39 | 33.00 | |
| DAV | 8.32 | 351 | eP | 39 | 14.00 | 5.1X |
| MKS | 8.41 | 241 | i(P)c | 39 | 09.50 | -0.6 |

| | | | | | | |
|-----|-------|-----|----|----|-------|-------|
| MTN | 12.33 | 160 | eP | 40 | 02.00 | -1.6 |
| KNA | 14.59 | 173 | eP | 40 | 31.00 | -2.4 |
| BAG | 18.56 | 341 | eP | 41 | 20.00 | -3.8X |
| MBL | 21.01 | 199 | eP | 41 | 49.50 | -0.9 |

| | | | | | | |
|-----|-------|-----|------|---------|-------|--------|
| | | | 0.6s | 14.00nm | 4.5mb | |
| PMG | 21.76 | 113 | e(P) | 41 | 43.00 | -15.0X |
| KLI | 22.29 | 260 | eP | 42 | 06.80 | 3.5X |
| QIS | 22.92 | 148 | eP | 42 | 08.00 | -1.5 |

| | | | | | | |
|------|-------|-----|----|----|-------|-------|
| | | | e | 42 | 11.00 | |
| | | | e | 42 | 19.00 | |
| NANU | 23.94 | 207 | eP | 42 | 22.00 | 2.7X |
| WARB | 24.85 | 181 | eP | 42 | 20.20 | -8.0X |

| | | | | | | |
|------|-------|-----|------|---------|-------|------|
| CTA | 26.68 | 136 | iPc | 42 | 47.00 | 1.8 |
| | | | 1.1s | 70.25nm | 5.2mb | |
| FORR | 29.52 | 178 | eP | 43 | 10.00 | -0.8 |

| | | | | | | |
|-----|-------|-----|----|----|-------|------|
| SSE | 32.56 | 351 | eP | 43 | 36.30 | -1.1 |
| STK | 33.54 | | | | | |

23d 20h

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--------|----------|-------|----|-------|--------|-------|----------|-------|------------------------------------|--------|------|-------|---------|--------|-------|-----------------------------|---------------------------------------|---------|--------|-------|------|-------|-------|--------------------------------------|-------|-----|----|----|-------|------|--|--|--|--|--|--|
| CTA | 0.7s | 152.00nm | e | 46 | 35.00 | 5.7mb | 33.31 | 260 | iPd | 46 | 28.80 | -1.0 | 0.9s | 42.02nm | 5.0mb | 0.9s | 42.02nm | 5.0mb | | | | | | | | | | | | | | | | | | | |
| CNB | 33.43 | 232 | iPc | 46 | 31.30 | 0.5 | 0.6s | 161.00nm | e | 50 | 47.00 | | 37.18 | 230 | iPd | 47 | 02.90 | 1.1 | | | | | | | | | | | | | | | | | | | |
| CAN | 33.71 | 232 | iPd | 46 | 33.30 | 0.2 | 38.59 | 241 | iPd | 47 | 14.20 | 0.9 | 0.3s | 35.00nm | 5.4mb | 41.61 | 237 | iPd | 47 | 38.00 | 0.3 | | | | | | | | | | | | | | | | |
| BWA | 33.81 | 234 | iPd | 46 | 32.00 | -2.0 | 0.6s | 44.00nm | 5.2mb | 49.91 | 244 | iPd | 48 | 40.20 | -1.1 | 0.4s | 116.00nm | 5.7mb | 50.31 | 264 | iPd | 48 | 43.10 | -1.3 | | | | | | | | | | | | | |
| PMG | 34.24 | 279 | eP | 46 | 37.50 | -0.2 | 0.6s | 87.00nm | 5.4mb | 51.19 | 250 | iPd | 48 | 40.60 | -10.2X | 0.6s | 66.00nm | | 57.86 | 256 | iPd | 49 | 36.10 | -1.6 | | | | | | | | | | | | | |
| CMS | 34.99 | 240 | iPd | 46 | 43.90 | 0.2 | 0.4s | 19.00nm | 4.8mb | 67.60 | 323 | iPc | 50 | 38.50 | -1.4 | 0.4s | 2.30nm | | 86.01 | 284 | eP | 52 | 21.80 | 1.8 | | | | | | | | | | | | | |
| TOO | 37.18 | 230 | iPd | 47 | 02.90 | 1.1 | 0.3s | 35.00nm | 5.4mb | NNT | 86.01 | 284 | eP | 52 | 21.80 | 1.8 | 94.19 | 25 | P | 52 | 58.10 | 1.2 | | | | | | | | | | | | | | | |
| STK | 38.59 | 241 | iPd | 47 | 14.20 | 0.9 | 0.6s | 44.00nm | 5.2mb | KSP | 144.83 | 344 | iPKPd | 59 | 13.00 | 1.0 | 145.19 | 347 | iPKPd | 59 | 13.50 | 1.0 | | | | | | | | | | | | | | | |
| ADE | 41.61 | 237 | iPd | 47 | 38.00 | 0.3 | 0.6s | 87.00nm | 5.4mb | CLL | 145.19 | 347 | iPKPd | 59 | 13.50 | 1.0 | 145.39 | 346 | iPKP | 59 | 13.90 | 1.0 | | | | | | | | | | | | | | | |
| FORR | 49.91 | 244 | iPd | 48 | 40.20 | -1.1 | 0.4s | 116.00nm | 5.7mb | BRG | 145.39 | 346 | iPKP | 59 | 13.90 | 1.0 | 146.06 | 345 | ePKP | 59 | 16.00 | 2.0X | | | | | | | | | | | | | | | |
| KNA | 50.31 | 264 | iPd | 48 | 43.10 | -1.3 | 0.6s | 87.00nm | 5.4mb | PRU | 146.06 | 345 | ePKP | 59 | 16.00 | 2.0X | 146.89 | 301 | ePKP | 59 | 19.50 | 3.6X | | | | | | | | | | | | | | | |
| WARB | 51.19 | 250 | iPd | 48 | 40.60 | -10.2X | 0.6s | 66.00nm | | PNRI | 146.94 | 299 | iPKPd | 59 | 19.50 | 3.4X | 146.94 | 299 | iPKPd | 59 | 19.50 | 3.4X | | | | | | | | | | | | | | | |
| MBL | 57.86 | 256 | iPd | 49 | 36.10 | -1.6 | 0.4s | 19.00nm | 4.8mb | KHC | 147.10 | 345 | PKP | 59 | 19.60 | 3.9X | 147.18 | 298 | iPKPd | 59 | 20.00 | 3.6X | | | | | | | | | | | | | | | |
| MAT | 67.60 | 323 | iPc | 50 | 38.50 | -1.4 | 0.4s | 2.30nm | | MBH | 147.18 | 298 | iPKPd | 59 | 20.00 | 3.6X | 148.94 | 2 | ePKP | 59 | 23.10 | 4.5X | | | | | | | | | | | | | | | |
| NNT | 86.01 | 284 | eP | 52 | 21.80 | 1.8 | 0.4s | 2.30nm | | FLN | 148.94 | 2 | ePKP | 59 | 23.10 | 4.5X | 148.96 | 352 | ePKP | 59 | 23.50 | 4.7X | | | | | | | | | | | | | | | |
| YKA | 94.19 | 25 | P | 52 | 58.10 | 1.2 | 0.4s | 2.30nm | | CDF | 148.96 | 352 | ePKP | 59 | 23.50 | 4.7X | 149.06 | 344 | iPKP | 59 | 23.30 | 4.2X | | | | | | | | | | | | | | | |
| KSP | 144.83 | 344 | iPKPd | 59 | 13.00 | 1.0 | 0.4s | 2.30nm | | KBA | 149.06 | 344 | iPKP | 59 | 23.30 | 4.2X | 149.13 | 2 | ePKP | 59 | 23.30 | 4.4X | | | | | | | | | | | | | | | |
| CLL | 145.19 | 347 | iPKPd | 59 | 13.50 | 1.0 | 0.4s | 2.30nm | | LDF | 149.13 | 2 | ePKP | 59 | 23.30 | 4.4X | 149.30 | 3 | ePKP | 59 | 24.50 | 5.4X | | | | | | | | | | | | | | | |
| BRG | 145.39 | 346 | iPKP | 59 | 13.90 | 1.0 | 0.4s | 2.30nm | | GRR | 149.30 | 3 | ePKP | 59 | 24.50 | 5.4X | 149.47 | 353 | ePKP | 59 | 24.50 | 5.1X | | | | | | | | | | | | | | | |
| PRU | 146.06 | 345 | ePKP | 59 | 16.00 | 2.0X | 0.4s | 2.30nm | | HAU | 149.47 | 353 | ePKP | 59 | 24.50 | 5.1X | 149.59 | 353 | ePKP | 59 | 24.70 | 5.0X | | | | | | | | | | | | | | | |
| DOR | 146.89 | 301 | ePKP | 59 | 19.50 | 3.6X | 0.4s | 2.30nm | | BSF | 149.59 | 353 | ePKP | 59 | 24.70 | 5.0X | 149.65 | 3 | ePKP | 59 | 24.90 | 5.3X | | | | | | | | | | | | | | | |
| PNRI | 146.94 | 299 | iPKPd | 59 | 19.50 | 3.4X | 0.4s | 2.30nm | | LPF | 149.65 | 3 | ePKP | 59 | 24.90 | 5.3X | 150.41 | 357 | ePKP | 59 | 26.90 | 6.0X | | | | | | | | | | | | | | | |
| KHC | 147.10 | 345 | PKP | 59 | 19.60 | 3.9X | 0.4s | 2.30nm | | LOR | 150.41 | 357 | ePKP | 59 | 26.90 | 6.0X | 150.63 | 357 | ePKP | 59 | 27.50 | 6.3X | | | | | | | | | | | | | | | |
| MBH | 147.18 | 298 | iPKPd | 59 | 20.00 | 3.6X | 0.4s | 2.30nm | | SSF | 150.63 | 357 | ePKP | 59 | 27.50 | 6.3X | 150.68 | 356 | ePKP | 59 | 27.30 | 6.0X | | | | | | | | | | | | | | | |
| FLN | 148.94 | 2 | ePKP | 59 | 23.10 | 4.5X | 0.4s | 2.30nm | | LBF | 150.68 | 356 | ePKP | 59 | 27.30 | 6.0X | 150.91 | 357 | ePKP | 59 | 27.90 | 6.3X | | | | | | | | | | | | | | | |
| CDF | 148.96 | 352 | ePKP | 59 | 23.50 | 4.7X | 0.4s | 2.30nm | | AVF | 150.91 | 357 | ePKP | 59 | 27.90 | 6.3X | 151.12 | 2 | ePKP | 59 | 28.30 | 6.4X | | | | | | | | | | | | | | | |
| KBA | 149.06 | 344 | iPKP | 59 | 23.30 | 4.2X | 0.4s | 2.30nm | | MFF | 151.12 | 2 | ePKP | 59 | 28.30 | 6.4X | 151.16 | 358 | ePKP | 59 | 28.50 | 6.5X | | | | | | | | | | | | | | | |
| LDF | 149.13 | 2 | ePKP | 59 | 23.30 | 4.4X | 0.4s | 2.30nm | | BGF | 151.16 | 358 | ePKP | 59 | 28.50 | 6.5X | 151.45 | 359 | ePKP | 59 | 29.00 | 6.5X | | | | | | | | | | | | | | | |
| GRR | 149.30 | 3 | ePKP | 59 | 24.50 | 5.4X | 0.4s | 2.30nm | | TCF | 151.45 | 359 | ePKP | 59 | 29.00 | 6.5X | 151.50 | 360 | ePKP | 59 | 29.30 | 6.8X | | | | | | | | | | | | | | | |
| HAU | 149.47 | 353 | ePKP | 59 | 24.50 | 5.1X | 0.4s | 2.30nm | | LSF | 151.50 | 360 | ePKP | 59 | 29.30 | 6.8X | 151.51 | 358 | ePKP | 59 | 29.50 | 7.0X | | | | | | | | | | | | | | | |
| BSF | 149.59 | 353 | ePKP | 59 | 24.70 | 5.0X | 0.4s | 2.30nm | | MAF | 151.51 | 358 | ePKP | 59 | 29.50 | 7.0X | 151.89 | 352 | ePKP | 59 | 31.10 | 7.6X | | | | | | | | | | | | | | | |
| LPF | 149.65 | 3 | ePKP | 59 | 24.90 | 5.3X | 0.4s | 2.30nm | | LPG | 151.89 | 352 | ePKP | 59 | 31.10 | 7.6X | S.D. = 1.3 on 23 of 48 obs. | | | | | | | | | | | | | | | | | | | | |
| LOR | 150.41 | 357 | ePKP | 59 | 26.90 | 6.0X | 0.4s | 2.30nm | | FEB 23, 1989 20h 43m 56.45 ± 1.22s | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SSF | 150.63 | 357 | ePKP | 59 | 27.50 | 6.3X | 0.4s | 2.30nm | | 1.116 S ± 7.3km 126.974 E ± 9.3km | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LBF | 150.68 | 356 | ePKP | 59 | 27.30 | 6.0X | 0.4s | 2.30nm | | DEPTH = 39.7 ± 12.3 km | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AVF | 150.91 | 357 | ePKP | 59 | 27.90 | 6.3X | 0.4s | 2.30nm | | 4.7mb (2 obs.) 4.3msz (1 obs.) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MFF | 151.12 | 2 | ePKP | 59 | 28.30 | 6.4X | 0.4s | 2.30nm | | MOLUCCA SEA (269) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BGF | 151.16 | 358 | ePKP | 59 | 28.50 | 6.5X | 0.4s | 2.30nm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TCF | 151.45 | 359 | ePKP | 59 | 29.00 | 6.5X | 0.4s | 2.30nm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LSF | 151.50 | 360 | ePKP | 59 | 29.30 | 6.8X | 0.4s | 2.30nm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAF | 151.51 | 358 | ePKP | 59 | 29.50 | 7.0X | 0.4s | 2.30nm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LPG | 151.89 | 352 | ePKP | 59 | 31.10 | 7.6X | 0.4s | 2.30nm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S.D. = 1.3 on 23 of 48 obs. | | | | | | | | | | | | | | | | | | CD2 | 38.75 | 327 | P | 51 | 20.00 | 1.0 | GTA | 7.44 | 263 | Pn | 02 | 48.20 | -1.0 | | | | | | |
| | | | | | | | | | | | | | | | | | | XAN | 38.87 | 336 | P | 51 | 20.60 | 0.7 | | | | Sn | 04 | 11.00 | | | | | | | |
| | | | | | | | | | | | | | | | | | | CAN | 39.73 | 151 | iPd | 51 | 27.70 | 0.7 | | | | Sg | 04 | 48.00 | | | | | | | |
| | | | | | | | | | | | | | | | | | | TOO | 40.09 | 157 | eP | 51 | 31.00 | 1.0 | GYA | 14.41 | 190 | eP | 04 | 24.40 | 0.5 | | | | | | |
| | | | | | | | | | | | | | | | | | | TIY | 40.91 | 342 | eP | 51 | 36.60 | -0.1 | WMO | 16.32 | 288 | eP | 04 | 53.00 | 4.3X | | | | | | |
| | | | | | | | | | | | | | | | | | | Z | 20s | 0.40um | | | | | S.D. = 1.0 | on | 7 | of | 9 | obs. | | | | | | | |
| | | | | | | | | | | | | | | | | | | BJI | 42.13 | 348 | eP | 51 | 45.50 | -1.1 | % FEB 23, 1989 23h 34m 08.39 ± 0.70s | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | SNY | 42.86 | 356 | eP | 51 | 50.90 | -1.6 | 40.575 N ± 5.7km 23.563 E ± 7.4km | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | HHC | 44.06 | 343 | P | 52 | 03.10 | 0.6 | DEPTH = 10.0km (geophysicist) | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | BTO | 44.30 | 341 | eP | 52 | 04.60 | 0.2 | GREECE (364) | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | GTA | 47.40 | 331 | eP | 52 | 30.00 | 1.0 | ML 2.0 (THE). | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | HYB | 51.12 | 293 | eP | 52 | 57.00 | -0.8 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | GBA | 51.22 | 288 | P | 52 | 58.00 | -0.6 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | NDI | 56.06 | 306 | eP | 53 | 34.00 | -0.2 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | WMO | 56.85 | 327 | eP | 53 | 40.00 | 0.3 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | MAIO | 72.67 | 309 | eP | 55 | 23.00 | 0.5 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | AVY | 79.46 | 251 | eP | 56 | 01.80 | 0.6 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | S.D. = 1.1 on 29 of 30 obs. | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | * FEB 23, 1989 21h 21m 14.66 ± 1.84s | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 5.828 N ± 8.5km 126.715 E ± 20.2km | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | DEPTH = 171.2 ± 18.9 km | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 4.8mb (2 obs.) | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | MINDANAO, PHILIPPINE ISLANDS (259) | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | MNI | 4.74 | 203 | ePd | 22 | 25.30 | -0.5 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | MTN | 19.06 | 167 | iPc | 25 | 26.10 | -0.3 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | OZH | 20.54 | 339 | eP | 25 | 43.00 | 1.7 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | KNA | 21.53 | 175 | eP | 25 | 52.00 | 0.8 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | WHN | 27.20 | 336 | P | 26 | 45.00 | 0.7 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | TIA | 31.49 | 345 | eP | 27 | 21.40 | -0.9 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | WARB | 31.82 | 180 | eP | 27 | 17.00 | -8.2X | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | TIY | 34.30 | 340 | eP | 27 | 46.00 | -0.6 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | BJI | 35.36 | 346 | eP | 27 | 55.00 | -0.4 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | FORR | 36.49 | 178 | iPd | 28 | 05.40 | 0.4 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 0.4s | 24.00nm | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | HHC | 37.42 | 341 | P | 28 | 13.30 | 0.4 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | SHL | 38.66 | 304 | iP | 28 | 23.50 | 0.0 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | MDJ | 38.72 | 3 | eP | 28 | 23.00 | -0.5 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | STK | 40.09 | 160 | eP | 28 | 35.00 | 0.1 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | GTA | 41.31 | 328 | Pc | 28 | 45.80 | 0.7 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | NDI | 51.98 | 302 | iPd | 30 | 07.50 | -1.1 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | MAIO | 68.25 | 307 | eP | 32 | 00.00 | 0.9 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | HFS | 96.17 | 332 | eP | 34 | 22.50 | -1.5 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 0.4s | 0.80nm | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | S.D. = 0.9 on 17 of 18 obs. | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | & FEB 23, 1989 21h 23m 21.94s | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 37.473 N 118.837 W | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | DEPTH = 1.5km | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | CALIFORNIA-NEVADA BORDER REGION (40) | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | <REN>. MD 3.0 (REN). | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | PPK | 0.74 | 93 | iPc | 23 | 35.80 | -1.0 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | SVP | 0.86 | 73 | eP | 23 | 38.10 | -1.2 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | LCH | 0.98 | 104 | eP | 23 | 40.00 | -1.4 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | MGM | 1.07 | 91 | eP | 23 | 41.80 | -1.2 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | CMB | 1.35 | 295 | eP | 23 | 46.30 | -1.4 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | TNP | 1.42 | 64 | ePc | 23 | 48.30 | -0.7 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | SGV | 1.52 | 108 | eP | 23 | 50.00 | -0.5 | | | | | | | | | | | | | |

| | | | | | | |
|------|-------|----------|------|----|-------|---------|
| PTJ | 12.88 | 314 | eP | 43 | 39.00 | -1.0 |
| SRO | 12.92 | 325 | eP | 43 | 40.90 | 0.6 |
| AZI | 12.94 | 294 | P | 43 | 42.30 | 1.6 |
| BHD | 13.03 | 105 | ePd | 43 | 46.00 | 4.0X |
| | | | eS | 46 | 22.00 | |
| | | | e | 47 | 02.00 | |
| AQU | 13.06 | 296 | P | 43 | 42.40 | 0.1 |
| VBY | 13.08 | 311 | eP | 43 | 42.50 | -0.1 |
| SLY | 13.14 | 94 | ePd | 43 | 48.50 | 5.1X |
| | | | eS | 46 | 25.00 | |
| | | | eLQ | 48 | 30.00 | |
| RDP | 13.41 | 293 | P | 43 | 56.30 | 9.3X |
| TAB | 13.42 | 83 | eP | 43 | 52.00 | 4.8X |
| | | | i | 46 | 35.00 | |
| SOP | 13.67 | 321 | eP | 43 | 49.00 | -1.3 |
| CEY | 13.70 | 310 | eP | 43 | 50.50 | -0.3 |
| ZST | 13.76 | 323 | eP | 43 | 50.60 | -0.8 |
| Z | 11s | 10.00um | | | | |
| | | | LR | 00 | 50.00 | |
| LJU | 13.79 | 312 | eP | 43 | 51.00 | -1.0 |
| | | | e | 43 | 54.20 | |
| | | | e(S) | 47 | 46.00 | |
| KRA | 14.05 | 334 | eP | 43 | 55.20 | 0.0 |
| | 0.8s | 33.00nm | | | | 5.1mb |
| Z | 12s | 4.10um | | | | |
| N | 12s | 8.20um | | | | |
| | | | e | 43 | 58.90 | |
| | | | i | 44 | 06.00 | |
| TRI | 14.09 | 309 | eP | 43 | 53.50 | -2.3 |
| | | | i | 44 | 46.50 | |
| AKUR | 14.10 | 167 | eP | 43 | 57.00 | 0.9 |
| VOY | 14.17 | 311 | eP | 43 | 56.70 | -0.3 |
| VKA | 14.18 | 322 | e(P) | 43 | 56.00 | -1.0 |
| | 2.0s | 343.00nm | | | | 5.7mb X |
| Z | 10s | 6.00um | | | | 5.6Msz |
| | | | i | 44 | 01.50 | |
| | | | LR | 44 | 11.20 | |
| | | | i | 50 | 16.00 | |
| AGRW | 14.35 | 167 | eP | 43 | 57.00 | -2.3 |
| AKSR | 14.40 | 166 | eP | 43 | 59.00 | -1.0 |
| CRE | 14.44 | 300 | P | 44 | 00.10 | -0.5 |
| AGAL | 14.57 | 167 | eP | 44 | 03.00 | 0.8 |
| RBL | 14.57 | 312 | P | 44 | 06.60 | 4.3X |
| RBL | 14.57 | 312 | P | 44 | 01.70 | -0.6 |
| SFI | 14.61 | 301 | P | 44 | 03.80 | 1.2 |
| PGD | 14.68 | 300 | P | 44 | 04.90 | 1.1 |
| KER | 14.76 | 98 | eP | 44 | 12.00 | 7.2X |
| FIR | 14.97 | 299 | eP | 44 | 10.00 | 2.6 |
| KBA | 15.04 | 313 | iPc | 44 | 09.00 | 0.5 |
| | 1.3s | 38.80nm | | | | 4.6mb |
| | | | i | 44 | 11.60 | |
| | | | i | 44 | 15.80 | |
| | | | iPP | 44 | 19.40 | |
| | | | LR | 50 | 32.00 | |
| FVI | 15.12 | 311 | P | 44 | 09.40 | 0.1 |
| KMR | 15.16 | 318 | e(P) | 44 | 16.00 | 6.1X |
| | | | iPP | 44 | 21.60 | |
| | | | i | 44 | 52.00 | |
| MME | 15.48 | 300 | P | 44 | 12.10 | -2.2 |
| CTI | 15.56 | 308 | P | 44 | 13.00 | -2.1 |
| CGL | 15.77 | 282 | P | 44 | 19.50 | 1.5 |
| KSP | 16.06 | 329 | eP | 44 | 20.00 | -1.5 |
| | | | ic | 44 | 29.80 | |
| KHC | 16.12 | 320 | iPc | 44 | 23.00 | 0.8 |
| | | | i | 44 | 27.30 | |
| PRU | 16.21 | 324 | P | 44 | 28.00 | 4.6X |
| Z | 10s | 7.50um | | | | |
| N | 10s | 7.00um | | | | |
| E | 10s | 2.80um | | | | |
| | | | e | 44 | 31.50 | |
| WET | 16.49 | 319 | iPc | 44 | 30.10 | 3.2X |
| | | | i | 44 | 32.00 | |
| BOB | 16.51 | 301 | P | 44 | 23.80 | -3.5X |
| BRG | 17.10 | 325 | eP | 44 | 35.70 | 1.1 |
| | 1.5s | 50.00nm | | | | 4.4mb |
| | | | i | 44 | 41.70 | |
| VAI | 17.33 | 304 | P | 44 | 34.90 | -2.6 |
| IMI | 17.35 | 298 | P | 44 | 38.30 | 0.4 |
| SBF | 17.66 | 297 | eP | 44 | | |

| 24d 00h | | | | | | | | | | | | |
|---------|-------|----------|----------|--------|------|---------------|----------|----------|------|-------------------|----------------|--------------|
| MOX | 18.06 | 321 eP+ | 44 48.00 | 1.5 | 0.9s | 31.97nm | 4.9mb | | | | | |
| | 2.0s | 206.00nm | | 4.9mb | | eS | 50 12.00 | | | | | |
| Z | 12s | 5.60um | | 5.4msz | FLN | 24.21 307 eP | 45 50.90 | -0.5 | CN2 | 68.94 50 eP | 51 48.00 | 32kmX |
| N | 10s | 4.90um | | | | 1.0s | 69.60nm | 5.2mb | | BRW | 71.18 2 eP | 51 41.50 0.5 |
| E | 10s | 2.80um | | | GRR | 24.35 306 eP | 45 51.80 | -1.0 | GAC | 72.99 315 eP | 51 46.00 14kmX | |
| | | i | 44 53.00 | | | 1.0s | 128.00nm | 5.5mb | RSNY | 73.14 314 P | 52 07.20 1.0 | |
| | | e(S) | 48 16.00 | | LPF | 24.38 305 eP | 45 52.00 | -1.1 | | 0.8s | 11.74nm | 5.0mb |
| | | LQ | 52 40.00 | | | 1.1s | 107.40nm | 5.4mb | PTN | 73.38 314 P | 52 09.00 1.4 | |
| | | LR | 52 40.00 | | ETOR | 24.44 287 eP | 45 54.70 | 0.9 | INK | 73.50 353 eP | 52 06.00 -1.9 | |
| RSP | 18.11 | 301 P | 44 46.51 | -0.8 | HFS | 24.54 341 eP | 45 54.40 | -0.1 | TBR | 75.00 311 P | 52 17.80 0.8 | |
| FRF | 18.16 | 296 eP | 44 49.30 | 1.5 | | 0.9s | 97.70nm | 5.4mb | YKA | 75.99 344 P | 52 22.90 0.6 | |
| | 1.2s | 77.30nm | | 4.7mb | Z | 16s | 2.59um | 4.8mszX | IMA | 76.50 1 eP | 52 25.90 0.6 | |
| LSD | 18.27 | 302 P | 44 50.00 | 0.6 | | | LR | 54 53.00 | | 1.0s | 11.30nm | 4.9mb |
| LRG | 18.34 | 295 eP | 44 50.60 | 0.5 | EVIA | 24.99 282 eP | 46 00.20 | 1.0 | FBA | 77.68 359 eP | 52 32.00 0.4 | |
| | 1.2s | 95.20nm | | 4.8mb | SUF | 25.09 357 eP | 46 00.00 | 0.2 | RSON | 78.62 327 P | 52 35.90 -1.2 | |
| RRL | 18.37 | 300 P | 44 52.36 | 1.7 | | 0.6s | 15.90nm | 4.8mb | | 0.7s | 29.17nm | 5.4mb |
| BNI | 18.48 | 300 P | 44 51.20 | -0.7 | NRA0 | 25.62 340 P | 46 06.50 | 1.7 | FFC | 78.89 334 eP | 52 38.00 -0.5 | |
| LPG | 18.55 | 302 eP | 44 54.80 | 1.8 | NB2 | 25.96 340 P | 46 06.40 | -1.6 | | 1.1s | 34.00nm | 5.3mb |
| FEL | 18.59 | 310 P | 44 51.00 | -2.3 | | 0.9s | 34.20nm | 5.0mb | PMR | 81.02 359 eP | 52 50.70 1.1 | |
| LOMF | 19.12 | 307 P | 44 59.00 | -0.6 | TOL | 26.03 285 iPc | 46 09.50 | 0.7 | | 1.0s | 20.00nm | 5.1mb |
| MOF | 19.12 | 309 P | 44 58.50 | -1.2 | | 1.0s | 60.00nm | 5.2mb | TKL | 84.25 311 P | 53 07.00 0.1 | |
| CDF | 19.27 | 311 eP | 45 00.80 | -0.7 | | | iS | 50 58.00 | SES | 85.57 336 eP | 53 11.00 -2.3 | |
| | 1.0s | 149.60nm | | 5.2mb | GUD | 26.04 287 eP | 46 09.80 | 0.7 | ELC | 86.27 315 P | 53 16.40 -0.5 | |
| GWf | 19.32 | 312 P | 44 59.00 | -3.0 | EBAN | 26.06 281 eP | 46 08.00 | -1.1 | FVM | 86.42 317 P | 53 17.30 -0.4 | |
| BSF | 19.32 | 309 eP | 45 01.50 | -0.7 | ASMO | 26.17 279 eP | 46 10.00 | -0.2 | BAO | 89.76 250 eP | 53 34.50 0.5 | |
| | 1.0s | 73.60nm | | 4.9mb | APHE | 26.20 279 eP | 46 09.00 | -1.6 | LRM | 90.01 334 eP | 53 36.10 1.0 | |
| HAU | 19.67 | 309 eP | 45 04.80 | -1.2 | ACHM | 26.28 279 eP | 46 13.00 | 0.7 | BW06 | 91.58 331 P | 53 42.90 0.6 | |
| VITF | 19.98 | 309 P | 45 08.00 | -1.1 | ATEJ | 26.47 279 eP | 46 13.50 | 1.4 | | 1.0s | 5.63nm | 4.9mb |
| WLF | 20.49 | 313 P | 45 13.60 | -0.8 | AAPN | 26.47 279 eP | 46 12.50 | -0.5 | ITA | 91.66 243 eP | 53 44.70 1.8 | |
| PLDF | 20.79 | 301 P | 45 20.05 | 2.3 | ALOJ | 26.50 279 eP | 46 12.50 | -0.8 | VAO | 93.66 244 e(P) | 53 54.00 2.2 | |
| SMF | 20.82 | 303 eP | 45 17.10 | -0.8 | KJF | 26.52 358 iP | 46 13.00 | -0.1 | CTA | 123.05 91 ePKP | 59 32.00 -0.2 | |
| | 1.4s | 152.40nm | | 5.2mb | | 0.8s | 33.70nm | 5.1mb | SPA | 127.54 180 e(PKP) | 59 40.50 0.8 | |
| LBF | 20.83 | 304 eP | 45 17.90 | -0.2 | IFR | 2 | | | | | | |

MKRJ 0.54 205 Pc 10 41.70 -1.7
S.D. = 1.5 on 6 of 6 obs.

% FEB 24, 1989 01h 11m 47.58±0.87s
37.618 N ± 9.0km 29.259 E ± 9.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ELL 1.01 149 iPn 12 07.00 0.2
BCK 1.07 98 ePn 12 07.60 -0.2
ALT 1.58 25 ePn 12 15.60 -0.2
IZM 1.76 297 ePn 12 18.00 -0.3
DST 2.05 346 ePn 12 23.00 0.5
S.D. = 0.5 on 5 of 5 obs.

% FEB 24, 1989 01h 12m 59.58±0.76s
37.690 N ± 7.4km 29.257 E ± 8.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ELL 1.07 151 iPn 13 19.50 -0.4
BCK 1.08 102 ePn 13 20.60 0.6
ALT 1.52 26 iPn 13 26.40 -0.5
IZM 1.73 295 ePn 13 30.00 0.2
DST 1.97 346 ePn 13 34.00 0.5
KCT 2.65 345 ePn 13 43.00 -0.1
YLV 2.87 2 ePn 13 46.00 -0.3
S.D. = 0.5 on 7 of 7 obs.

? FEB 24, 1989 01h 13m 02.17±9.29s
13.767 N ±20.7km 59.993 W ±77.4km
DEPTH = 33.0km (normal)

WINDWARD ISLANDS (95)
MG 3.0 (FDF).

SLW 0.95 285 eP 13 19.29 0.1
SLB 1.02 273 eP 13 20.15 -0.1
MVM 1.17 312 eP 13 22.13 -0.2
BIM 1.28 306 eP 13 23.82 -0.1
SVB 1.32 248 eP 13 24.45 0.0
FDF 1.48 311 eP 13 27.08 0.3
S.D. = 0.3 on 6 of 6 obs.

FEB 24, 1989 01h 17m 44.74±0.38s
37.721 N ± 3.2km 29.255 E ± 3.3km
DEPTH = 27.1 ± 3.5 km
4.4mb (14 obs.)

TURKEY (366)
ML 4.3 (ATH). Felt at Denizli.

KHL 0.64 19 iPg 17 55.40 -1.9
BCK 1.09 103 iPn 18 03.70 -0.6
ELL 1.10 152 iPn 18 03.00 -1.5
ALT 1.49 27 iPn 18 10.70 0.6
KSL 1.62 171 ePn 18 13.20 1.4
IZM 1.71 294 iPn 18 14.10 0.9
DST 1.94 346 iPn 18 17.00 0.4
KCT 2.62 345 iPn 18 24.50 -1.7
GPA 2.69 17 iPn 18 29.60 2.4
KAP 2.74 218 ePn 18 29.40 1.6
PRK 2.79 304 ePn 18 28.80 0.2
BNT 2.83 339 iPn 18 28.00 -1.1
EDC 2.84 338 iPn 18 29.00 -0.2
YLV 2.84 2 iPn 18 28.50 -0.9
GBZT 3.07 3 ePn 18 34.40 1.9
S.D. = 0.3 on 6 of 6 obs.

EZN 3.11 313 iPn 18 33.00 -0.1
HRT 3.11 6 iPn 18 28.50 -4.7X
ISK 3.34 357 ePn 18 35.00 -1.4
BBTK 3.46 51 eP 18 40.00 1.7
CTT 3.48 350 iPn 18 37.80 -0.6
PPCY 3.77 138 eP 18 44.00 1.5
IKL 3.84 111 iPn 18 45.50 2.0
DMK 4.26 345 iPn 18 48.90 -0.4
CSS 4.29 129 eP 18 51.00 1.1
ATH 4.39 275 ePn 18 52.00 0.7
RDO 4.47 321 ePn 18 52.30 -0.1
VAM 4.68 242 ePn 18 52.20 -3.2X
FAM 4.70 124 eP 19 03.50 7.9X
OUR 4.87 304 ePn 18 57.20 -0.8

PAIG 4.88 299 ePn 18 57.60 -0.6
KDZ 4.92 324 iPc 18 59.00 0.3
NEO 4.99 290 ePn 19 03.20 3.4X
JMB 5.16 337 iP 19 03.00 0.8
DIM 5.19 328 iP 19 02.00 -0.5
PLG 5.24 302 ePn 19 03.60 0.2
SOH 5.53 306 ePn 19 06.80 -0.6
SRS 5.54 309 ePn 19 06.60 -1.0
PLD 5.60 323 eP 19 09.00 0.6
THE 5.69 303 ePn 19 09.70 0.1
eSn 20 15.60

MMB 5.75 314 iPd 19 10.00 -0.6
LIT 5.79 296 ePn 19 10.80 -0.3
ITM 5.86 267 ePn 19 13.80 1.8
KNT 6.00 307 ePn 19 13.70 -0.4
PSN 6.01 353 eP 19 15.00 0.9
PGB 6.20 323 iP 19 16.00 -0.9
GRG 6.22 303 ePn 19 16.70 -0.4
KVT 6.24 55 ePn 19 17.70 0.3
PVL 6.25 333 iPc 19 17.00 -0.5
VAY 6.29 307 iPn 19 18.60 0.4
KKB 6.30 313 iP 19 17.00 -1.3
KZN 6.37 296 ePn 19 20.00 0.6
VTS 6.72 318 iP 19 26.00 1.8
ADI 6.72 132 iP 19 23.00 -1.2
TLB 6.92 353 eP 19 26.50 -0.4
ATZ 6.93 133 ePc 19 25.80 -1.4
eS 20 42.60

ZNT 7.24 137 iPc 19 29.00 -2.4
eS 20 48.50
SKO 7.36 308 iPn 19 33.00 -0.1
0.7s 51.00nm 5.7mb X

OHR 7.37 300 ePn 19 35.50 1.7
1.0s 0.05nm 2.5mb X

CFR 7.50 354 eP 19 20.00 -15.1X
MLR 8.15 343 ePd 19 44.50 0.2
VRI 8.36 348 ePc 19 48.50 1.5
CLI 8.94 351 eP 19 56.50 1.4
SSR 9.10 324 eP 19 54.00 -3.3
MBH 9.21 148 eP 19 57.40 -1.4
DEV 9.43 332 ePc 20 02.00 0.2
BZS 9.74 327 ePc 20 03.00 -3.0X
VKA 14.14 322 eP 21 05.00 -0.3
KBA 15.00 314 iP 21 02.20 -14.4X
1.2s 10.40nm

KHC 16.08 320 iPd 21 24.00 3.5X
PRU 16.18 324 eP 21 34.50 2.8X
WET 16.45 319 iPc 21 39.50 4.4X
BRG 17.07 325 eP 21 46.70 3.8X
2.0s 60.00nm 4.4mb
CLL 17.80 325 eP 21 56.00 4.0X
MOX 18.02 321 e(P) 21 58.00 3.2X
LPG 18.50 302 eP 22 04.60 3.7X
0.9s 9.80nm 4.0mb

CDF 19.22 311 eP 22 10.00 0.5
0.9s 14.40nm 4.2mb
BSF 19.27 309 eP 22 10.60 0.4
HAU 19.62 309 eP 22 13.90 -0.1
0.8s 14.50nm 4.3mb

SMF 20.77 303 eP 22 26.30 0.4
LOR 20.94 305 eP 22 27.30 -0.4
SSF 21.10 304 eP 22 29.10 -0.3
0.7s 6.60nm 4.2mb

AVF 21.13 304 eP 22 29.20 -0.4
MAIO 24.14 84 iPd 23 00.60 1.1
GRR 24.30 306 eP 22 59.70 -1.1
0.8s 16.10nm 4.6mb
HFS 24.53 341 eP 23 02.60 -0.3
0.5s 1.70nm 3.9mb

SUF 25.10 357 iP 23 08.80 0.5
0.7s 3.60nm 4.1mb
NB2 25.95 340 P 23 16.80 0.4
0.9s 5.90nm 4.2mb

KJF 26.53 358 eP 23 22.00 0.4
SOD 29.74 358 eP 23 54.00 3.4X
BNG 34.55 199 iPc 24 33.50 0.4
0.5s 5.00nm 4.7mb

KIC 43.90 233 P 25 50.40 -0.5
LIC 44.19 233 P 25 53.00 -0.2
GKN 46.93 85 P 26 14.30 -0.8
DMN 47.48 85 P 26 18.90 -0.7
0.8s 12.00nm 5.0mb
KKN 47.53 85 P 26 18.80 -1.2
0.6s 5.00nm 4.7mb

FRB 60.15 329 eP 27 51.00 -0.8
CHG 62.87 87 eP 28 21.00 10.2X
CHTO 62.87 87 eP 28 20.50 9.7X
0.8s 2.20nm 4.3mb
SCH 63.35 320 eP 28 12.00 -1.5
YKA 75.98 344 P 29 33.40 2.8
FFC 78.87 334 eP 29 47.00 0.3
0.8s 6.00nm 4.7mb
BAO 89.69 250 eP 30 25.60 -16.4X
S.D. = 1.1 on 84 of 102 obs.

? FEB 24, 1989 01h 19m 12.52±1.70s
47.184 N ±30.4km 152.688 E ±29.7km
DEPTH = 33.0km (normal)
4.8mb (5 obs.)

KURIL ISLANDS (221)

KUSJ 6.96 237 P 20 53.80 -1.0
ASAJ 7.68 250 eP 21 09.70 4.9X
HOOJ 8.23 238 eP 21 12.70 0.2
eS 22 43.50
MBC 44.29 20 eP 27 21.00 0.8
YKA 50.75 37 P 28 10.80 0.0
KKN 55.16 275 P 28 45.40 1.0
0.6s 8.00nm 4.9mb

DMN 55.39 275 P 28 46.80 0.7
0.6s 8.00nm 4.9mb
GKN 55.46 275 P 28 46.90 0.5
0.7s 8.00nm 4.9mb
NB2 67.72 341 P 30 07.70 -0.7
0.8s 3.80nm 4.5mb

HFS 67.95 339 eP 30 08.10 -1.6
0.5s 2.70nm 4.6mb
S.D. = 1.0 on 9 of 10 obs.

FEB 24, 1989 01h 59m 41.32±0.59s
37.764 N ± 5.4km 29.356 E ± 7.9km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

KHL 0.57 13 ePg 59 51.90 -1.1
BCK 1.02 107 iPn 00 00.60 -0.1
ELL 1.11 156 iPn 00 01.00 -1.2
ALT 1.42 24 iPn 00 08.10 0.9
KSL 1.65 174 ePn 00 11.50 1.0
eSn 00 37.60

IZM 1.77 292 ePn 00 10.60 -1.6
DST 1.92 343 ePn 00 14.50 0.0
YLV 2.80 0 ePn 00 30.00 3.0X
BNT 2.82 337 ePn 00 28.00 0.8
KAP 2.82 219 ePn 00 27.80 0.5
EDC 2.83 336 ePn 00 28.00 0.6
BBTK 3.37 51 eP 00 40.00 4.8X
S.D. = 1.1 on 10 of 12 obs.

FEB 24, 1989 01h 59m 54.59±0.47s
24.057 S ± 4.4km 66.558 W ± 5.7km
DEPTH = 204.4 ± 5.1 km
4.8mb (11 obs.)

SALTA PROVINCE, ARGENTINA (129)

HJA 1.35 52 iPd 00 30.40 2.8
RTS 6.62 202 ePc 01 32.00 1.5
CCH 6.65 3 P 01 33.00 1.6
CNCB 7.33 349 iPc 01 40.80 0.2
S 03 01.00

RTLL 7.44 193 ePc 01 40.50 -1.0
LPB 7.62 349 iPc 01 44.70 0.4
0.9s 319.33nm 5.5mb X
S 03 07.00

RTC8 7.66 195 ePd 01 43.90 -0.6
CFA 7.67 191 e(P) 01 43.60 -0.9
ZOB0 7.89 349 iPc 01 46.60 -1.4
(S) 03 11.00

RTCV 7.97 192 ePc 01 47.80 -0.7
ARE 8.86 328 iPd 01 55.70 -4.5X
IS 03 29.90

MDZ 9.02 192 e(P) 02 02.10 0.1
PEL 9.75 201 eP 02 10.50 -1.0
ITB1 11.11 96 e(P) 02 27.10 -1.9
ITB 11.28 96 e(P) 02 29.60 -1.6
VAO 18.00 91 iPc 03 52.80 0.1
e 03 56.20
e 04 01.80
e 04 12.90

BAO 19.35 68 eP 04 07.10 0.3
ITA 20.16 90 eP 04 14.30 -0.8

24d 02h

| | | | | | | | | | | | | | | | | | |
|------------------------------------|--------|-----|-------|----------|-------|--------------------------------------|------|----|-----|----------|--------|--------------------------------------|-------|-----|--------------------|----------|-------|
| BMA | 20.61 | 91 | eP | 04 21.10 | 0.8 | VAY | 2.10 | 74 | ePn | 03 17.20 | -12.7X | PWL | 1.46 | 60 | iP | 55 45.12 | -1.1 |
| JSC | 59.67 | 346 | P | 09 38.00 | -1.5 | S.D. = 1.4 on 12 of 13 obs. | | | | | | AUE | 1.48 | 238 | eP | 55 46.11 | -0.4 |
| FVM | 65.66 | 339 | P | 10 16.40 | -2.4 | | | | | | | AUL | 1.49 | 240 | eP | 55 46.42 | -0.1 |
| SPA | 66.09 | 180 | iPd | 10 23.00 | 1.5 | % FEB 24, 1989 02h 25m 28.15 ± 0.95s | | | | | | KNIM | 1.60 | 82 | iP | 55 46.36 | -1.1 |
| LIC | 67.07 | 72 | P | 10 27.32 | -0.9 | 37.762 N ± 8.2km 29.260 E ± 9.6km | | | | | | MTU | 1.65 | 95 | iP | 55 47.88 | -1.0 |
| TIC | 67.28 | 71 | P | 10 28.80 | -0.8 | DEPTH = 10.0km (geophysicist) | | | | | | PLRM | 1.68 | 31 | eP | 55 48.26 | -1.1 |
| KIC | 67.39 | 72 | Pc | 10 29.50 | -0.7 | TURKEY (366) | | | | | | PDB | 1.69 | 259 | iP | 55 48.48 | -0.9 |
| EMM | 68.46 | 359 | P | 10 35.90 | -0.3 | KHL 0.60 20 iPg 25 39.40 -0.9 | | | | | | | | | eS | 56 09.69 | |
| RSNY | 68.66 | 354 | P | 10 36.70 | -0.7 | BCK 1.10 106 ePn 25 48.70 -0.1 | | | | | | PME | 1.74 | 31 | Pn | 55 49.34 | -0.8 |
| ALO | 69.82 | 326 | eP | 10 44.00 | -1.0 | ELL 1.14 153 ePn 25 49.50 0.0 | | | | | | KNK | 1.74 | 43 | iP | 55 49.22 | -1.0 |
| GAC | 69.90 | 353 | eP | 10 45.00 | 0.1 | ALT 1.45 27 iPn 25 55.60 1.1 | | | | | | CDD | 1.86 | 230 | eP | 55 51.38 | -0.4 |
| CBM | 70.67 | 359 | P | 10 49.40 | -0.1 | I2M 1.70 293 ePn 25 58.00 0.0 | | | | | | GHO | 1.89 | 30 | Pn | 55 51.36 | -0.9 |
| KUK | 71.12 | 74 | eP | 10 52.50 | -0.5 | S.D. = 1.0 on 5 of 5 obs. | | | | | | GLI | 2.03 | 67 | eP | 55 51.40 | -2.1 |
| GOL | 73.04 | 330 | P | 11 03.70 | -0.4 | FEB 24, 1989 02h 59m 41.06 ± 0.56s | | | | | | SML | 2.08 | 36 | eP | 55 53.89 | -1.0 |
| GLA | 73.08 | 319 | P | 11 04.50 | 0.3 | 37.816 N ± 5.1km 29.304 E ± 6.6km | | | | | | HIN | 2.21 | 82 | eP | 55 54.48 | -2.2 |
| PEC | 75.07 | 318 | P | 11 16.00 | 0.4 | DEPTH = 10.0km (geophysicist) | | | | | | FID | 2.28 | 73 | iP | 55 54.77 | -2.9 |
| MSU | 75.51 | 325 | P | 11 18.70 | 0.5 | TURKEY (366) | | | | | | | | | eS | 56 20.44 | |
| DAU | 76.44 | 326 | P | 11 23.90 | 0.4 | KHL 0.54 19 iPg 59 51.90 0.0 | | | | | | VZW | 2.33 | 65 | iP | 55 56.34 | -2.0 |
| BW06 | 77.41 | 329 | P | 11 28.40 | -0.3 | BCK 1.08 109 iPn 00 00.90 -0.5 | | | | | | VLZ | 2.46 | 65 | eP | 55 58.36 | -1.8 |
| BCH | 77.72 | 318 | P | 11 31.30 | 0.9 | ELL 1.17 155 iPn 00 00.50 -2.5 | | | | | | KDC | 2.55 | 199 | iP | 55 59.65 | -1.2 |
| TNP | 77.98 | 321 | P | 11 32.20 | 0.3 | ALT 1.39 27 iPn 00 07.50 0.9 | | | | | | KLU | 2.79 | 59 | iP | 56 03.23 | -1.7 |
| RSON | 78.34 | 343 | P | 11 32.00 | -1.3 | KSL 1.71 172 ePn 00 12.00 1.0 | | | | | | | | | eS | 56 35.21 | |
| PHAM | 78.35 | 318 | P | 11 34.50 | 0.8 | I2M 1.71 290 ePn 00 10.80 -0.3 | | | | | | SGAM | 2.86 | 81 | iP | 56 02.84 | -3.0 |
| SCH | 78.55 | 360 | eP | 11 34.00 | -0.3 | DST 1.86 344 ePn 00 13.50 0.2 | | | | | | TOA | 3.02 | 48 | eP | 56 07.10 | -1.0 |
| KVN | 79.14 | 322 | P | 11 38.30 | 0.2 | KCT 2.54 343 iPn 00 22.50 -0.5 | | | | | | MCK | 3.71 | 14 | eP | 56 15.95 | -1.7 |
| FRS | 79.98 | 118 | eP | 11 46.00 | 3.4X | YLV 2.75 1 ePn 00 27.00 1.0 | | | | | | GLB | 3.71 | 67 | eP | 56 14.43 | -3.4 |
| ARN | 80.02 | 319 | P | 11 43.40 | 0.7 | BNT 2.76 337 iPn 00 26.00 -0.1 | | | | | | PAX | 3.84 | 40 | eP | 56 17.76 | -1.9 |
| LRM | 81.07 | 329 | eP | 11 48.70 | 0.5 | EDC 2.76 337 ePn 00 25.00 -1.2 | | | | | | LVY | 4.15 | 10 | eP | 56 22.21 | -1.9 |
| ORV | 81.44 | 320 | P | 11 50.70 | 0.7 | PRK 2.77 302 ePn 00 26.40 0.1 | | | | | | NEA | 4.52 | 10 | eP | 56 26.25 | -2.8 |
| SEK | 82.38 | 117 | iPc | 11 58.00 | 2.6 | KAP 2.84 218 ePn 00 29.30 2.1 | | | | | | WRH | 4.53 | 16 | iP | 56 27.64 | -1.2 |
| PRY | 82.81 | 116 | e(P) | 11 53.00 | -4.6X | HRT 3.02 5 ePn 00 35.00 5.3X | | | | | | CCB | 4.73 | 16 | eP | 56 30.14 | -1.9 |
| LBFM | 82.83 | 321 | P | 11 57.50 | 0.1 | EZN 3.07 312 ePn 00 29.90 -0.6 | | | | | | RDS | 4.86 | 14 | eP | 56 31.75 | -2.0 |
| SES | 83.92 | 333 | ePd | 11 59.70 | -2.7 | ISK 3.25 357 ePn 00 32.00 -1.1 | | | | | | FBA | 4.97 | 16 | eP | 56 33.71 | -1.8 |
| FFC | 84.15 | 340 | eP | 12 03.00 | -0.4 | BBTK 3.37 52 eP 01 37.70 | | | | | | GLM | 5.11 | 17 | eP | 56 35.42 | -2.0 |
| DPW | 85.28 | 328 | P | 12 09.30 | 0.0 | IKL 3.84 113 ePn 00 46.60 5.1X | | | | | | | | | 44 obs. associated | | |
| LON | 86.33 | 326 | P | 12 14.30 | -0.2 | S.D. = 1.2 on 16 of 18 obs. | | | | | | % FEB 24, 1989 05h 06m 20.53 ± 0.90s | | | | | |
| BUL | 86.48 | 110 | eP | 12 17.20 | 1.2 | ? FEB 24, 1989 03h 05m 12.18 ± 1.69s | | | | | | 37.726 N ± 8.5km 29.326 E ± 10.31 | | | | | |
| RMW | 86.80 | 326 | P | 12 16.00 | -0.7 | 23.625 N ± 22.8km 123.551 E ± 12.8km | | | | | | DEPTH = 10.0km (geophysicist) | | | | | |
| BMW | 86.89 | 325 | P | 12 17.50 | 0.3 | DEPTH = 33.0km (normal) | | | | | | TURKEY (366) | | | | | |
| PNT | 86.96 | 328 | eP | 12 18.00 | 0.6 | 4.0mb (1 obs.) | | | | | | KHL | 0.62 | 15 | iPg | 06 31.50 | -1.1 |
| EDM | 86.99 | 334 | ePd | 12 16.50 | -1.0 | SOUTHWESTERN RYUKYU ISLANDS (246) | | | | | | | | | iSg | 06 42.50 | |
| YKC | 94.26 | 340 | ePd | 12 50.50 | -0.5 | TWC 1.84 303 ePc 05 41.80 -0.2 | | | | | | BCK | 1.04 | 104 | iPn | 06 40.80 | 0.0 |
| YKA | 94.32 | 340 | P | 12 51.50 | 0.2 | eS 05 59.80 | | | | | | ELL | 1.08 | 154 | iPn | 06 40.50 | -0.4 |
| GBA | 144.47 | 100 | PKPd | 19 05.30 | -3.4X | TWD 1.85 285 ePc 05 41.30 -0.8 | | | | | | ALT | 1.46 | 25 | iPn | 06 47.30 | 0.1 |
| HYB | 146.77 | 95 | ePKP | 19 13.50 | 1.0 | eS 05 58.60 | | | | | | I2M | 1.76 | 293 | ePn | 06 51.00 | -0.3 |
| NDI | 147.30 | 74 | iPKPd | 19 16.90 | 3.9X | TWF1 2.09 263 ePc 05 46.10 0.5 | | | | | | DST | 1.95 | 344 | ePn | 06 55.50 | 1.4 |
| GKN | 153.85 | 75 | PKP | 19 24.20 | 1.2 | ANP 2.42 310 eP 05 51.00 0.6 | | | | | | S.D. = 1.3 on 6 of 6 obs. | | | | | |
| DMN | 154.28 | 76 | PKP | 19 25.20 | 1.4 | INK 72.93 22 eP 16 40.00 0.3 | | | | | | * FEB 24, 1989 05h 35m 37.98 ± 2.92s | | | | | |
| KKN | 154.42 | 76 | PKP | 19 25.00 | 1.1 | NB2 79.72 333 P 17 17.40 -0.6 | | | | | | 1.166 N ± 15.9km 97.363 E ± 16.81 | | | | | |
| CHG | 165.53 | 108 | ePKP | 19 37.90 | 2.0 | 0.7s 1.10nm 4.0mb | | | | | | DEPTH = 53.0 ± 20.8 km | | | | | |
| S.D. = 1.1 on 63 of 68 obs. | | | | | | S.D. = 0.8 on 6 of 6 obs. | | | | | | 4.5mb (5 obs.) | | | | | |
| FEB 24, 1989 02h 02m 54.31 ± 0.75s | | | | | | & FEB 24, 1989 04h 55m 21.60s | | | | | | NORTHERN SUMATERA (706) | | | | | |
| 40.784 N ± 5.0km 19.887 E ± 8.7km | | | | | | 60.158 N 150.919 W | | | | | | PSI | 2.18 | 46 | iPc | 36 13.40 | 1.0 |
| DEPTH = 10.0km (geophysicist) | | | | | | DEPTH = 64.8km | | | | | | | | | e | 38 53.50 | |
| ALBANIA (391) | | | | | | KENAI PENINSULA, ALASKA (14) | | | | | | IPM | 4.99 | 47 | ePd | 36 51.90 | -0.3 |
| ML 2.4 (SKO). | | | | | | <AGS-P>. | | | | | | | | | e | 43 00.00 | |
| BERA | 0.09 | 150 | iPg | 02 57.30 | 0.4 | NNL 0.22 239 Pn 55 32.61 0.7 | | | | | | | | | 0.8s 177.10nm | 36 57.50 | |
| VLO | 0.43 | 224 | iPg | 03 04.30 | 1.2 | SLKM 0.49 44 iP 55 33.79 -0.3 | | | | | | KGM | 6.01 | 82 | ePd | 37 07.00 | 0.4 |
| TPE | 0.50 | 169 | iPg | 03 02.40 | -2.0 | eS 55 43.16 | | | | | | SNG | 6.80 | 28 | eP | 36 57.10 | -20.4 |
| TIR | 0.56 | 358 | iPg | 03 04.20 | -1.5 | NKA 0.61 345 iP 55 36.35 1.1 | | | | | | | | | eS | 39 15.00 | |
| KBN | 0.72 | 102 | ePg | 03 09.00 | 0.5 | CNPM 0.65 194 iP 55 35.76 -0.1 | | | | | | BDT | 16.06 | 6 | eP | 39 22.90 | 1.0 |
| OHR | 0.76 | 64 | iPg | 03 07.70 | -1.6 | eS 55 46.27 | | | | | | LOE | 16.70 | 15 | eP | 39 28.00 | -2.0 |
| LSK | 0.83 | 139 | ePg | 03 11.30 | 0.8 | SEW 0.74 94 iP 55 36.14 -0.6 | | | | | | CHG | 17.61 | 5 | iPd | 39 39.50 | -1.8 |
| LACI | 0.86 | 351 | ePg | 03 09.60 | -1.3 | eS 55 46.80 | | | | | | | | | 6.67nm | 4.0mb | |
| PHP | 1.00 | 25 | ePn | 03 15.30 | 2.2 | RDT 0.85 300 Pn 55 37.49 -0.8 | | | | | | GBA | 23.27 | 303 | P | 40 57.00 | 15.2 |
| PUK | 1.26 | 0 | ePn | 03 17.80 | 0.2 | eS 55 49.69 | | | | | | | | | 5.80nm | | |
| KKS | 1.35 | 17 | ePn | 03 20.00 | 0.9 | RED 0.96 287 iP 55 38.83 -0.8 | | | | | | KMI | 24.38 | 12 | Pc | 40 54.50 | 1.7 |
| SKO | 1.67 | 44 | ePn | 03 24.00 | 0.3 | eS 55 52.21 | | | | | | SHL | 24.83 | 348 | iP | 40 57.00 | -0.1 |
| | | | | | | ILIM 1.02 267 iP 55 39.76 -0.7 | | | | | | GYA | 26.69 | 19 | P | 41 14.00 | -0.3 |
| | | | | | | eS 55 53.72 | | | | | | PKI | 28.65 | 337 | P | 41 31.60 | -0.6 |
| | | | | | | SPU 1.17 332 iP 55 41.61 -0.8 | | | | | | | | | 10.00nm | 4.7mb | |
| | | | | | | eS 55 57.15 | | | | | | DMN | 28.80 | 337 | P | 41 34.50 | 1.0 |
| | | | | | | PTE 1.18 52 iP 55 41.62 -0.8 | | | | | | | | | 18.00nm | 4.8mb | |
| | | | | | | eS 55 56.70 | | | | | | KKN | 28.89 | 337 | P | 41 34.60 | 0.3 |
| | | | | | | CRP 1.27 332 iP 55 43.33 -0.5 | | | | | | LSA | 28.99 | 349 | P | 41 36.10 | 0.7 |
| | | | | | | eS 56 00.15 | | | | | | GKN | 29.33 | 337 | P | 41 38.40 | 0.2 |
| | | | | | | CGLM 1.27 336 iP 55 43.27 -0.5 | | | | | | CD2 | 30.20 | 11 | P | 41 44.80 | -0.9 |
| | | | | | | PMS 1.28 31 Pn 55 43.62 -0.2 | | | | | | XAN | 34.45 | 17 | P | 42 22.00 | -0.7 |
| | | | | | | | | | | | | GTA | 38.13 | 3 | iPc | 42 53.70 | -0.2 |

WRA 41.88 122 Pd 43 24.10 -0.9
0.8s 2.90nm 4.1mb
BJI 42.31 22 eP 43 29.00 0.8
WMO 43.34 350 P 43 37.00 0.4
CN2 49.26 27 Pc 44 23.00 -0.3
pP 44 28.40 18kmX
MDJ 51.82 29 eP 44 44.00 1.2
NB2 87.11 331 P 48 18.80 -0.4
0.9s 4.10nm 4.6mb
S.D. = 1.0 on 23 of 25 obs.

FEB 24, 1989 06h 16m 51.85±0.45s
16.043 N ± 2.9km 61.246 W ± 5.5km
DEPTH = 10.0km (geophysicist)

LEEWARD ISLANDS (92)
ML 3.1 (FDF).

MGG 0.14 209 iPc 16 57.05 1.9
S 16 59.00
SFG 0.21 13 iPc 16 57.64 1.1
S 16 59.70
DEG 0.32 34 ePc 16 59.09 0.5
PAG 0.42 268 iPd 17 00.67 0.3
S 17 05.70
SEG 0.44 325 iPc 17 00.78 0.0
S 17 06.00
BTG 0.46 264 eP 17 00.90 -0.3
S 17 06.80
BBL 0.56 203 iPc 17 03.31 0.0
S 17 11.10
MDN 0.74 192 eP 17 06.45 0.1
DPMT 0.79 190 eP 17 07.66 0.5
eS 17 21.05
DGBT 0.80 186 eP 17 08.41 1.0
eS 17 20.68
DTMT 0.81 187 iP 17 07.66 0.1
eS 17 21.05
DSVT 0.82 188 eP 17 07.68 0.0
eS 17 21.41
DSC 0.84 188 eP 17 08.19 0.2
eS 17 24.04
MGH 1.15 306 eP 17 13.20 -0.2
ANG 1.24 333 eP 17 13.48 -1.4
FDF 1.30 176 iPc 17 14.67 -1.4
S 17 31.20
MVM 1.52 167 iPc 17 17.89 -1.2
S 17 36.00
BIM 1.53 174 iPc 17 18.16 -1.1
S 17 37.50
CPB 1.68 341 eP 17 21.06 -0.4
SLW 2.03 171 eP 17 47.78 21.2X
SLB 2.21 175 eP 17 47.98 18.8X
eS 17 57.39
S.D. = 0.9 on 19 of 21 obs.

? FEB 24, 1989 06h 54m 55.02±1.11s
51.143 N ±18.7km 174.999 E ±14.0km
DEPTH = 33.0km (normol)
4.7mb (6 obs.)

NEAR ISLANDS, ALEUTIAN ISLANDS (5)

ADK 5.25 79 eP 56 15.20 2.1
TTA 19.49 42 eP 59 19.90 -2.1
IMA 21.78 35 eP 59 46.40 0.8
INK 29.91 36 ePc 01 22.90 1.4
MBC 35.29 22 eP 01 55.00 6.8X
0.6s 8.00nm 4.8mb
YKA 38.19 45 eP 02 13.60 0.9
YKC 38.25 45 eP 02 13.50 0.3
GMW 39.63 70 eP 02 23.80 -1.1
LON 40.60 71 eP 02 32.30 -0.7
PNT 40.63 66 eP 02 32.00 -1.1
0.7s 9.00nm 4.6mb
LBFM 43.48 77 eP 02 57.00 0.2
ORV 44.77 79 eP 03 06.50 -0.5
SES 44.92 61 eP 03 04.00 -4.1X
ARN 46.10 82 eP 03 18.00 0.4
KVN 47.18 78 eP 03 25.70 -0.6
PHAM 47.76 83 eP 03 31.60 0.9
TNP 48.32 78 P 03 34.90 -0.3
0.9s 9.77nm 4.8mb
BW06 50.05 68 P 03 47.20 -1.3
0.5s 4.73nm 4.8mb
PLM 51.59 82 eP 04 01.00 0.7
GLA 53.06 81 eP 04 11.50 0.4
GOL 54.44 69 eP 04 20.90 -0.5
FRB 55.19 29 eP 04 31.00 4.7X

ALO 56.93 74 eP 04 39.00 -0.5
0.9s 2.73nm 4.3mb
GBA 84.21 284 P 07 25.00 0.6
0.7s 2.70nm 4.5mb
S.D. = 1.1 on 21 of 24 obs.

& FEB 24, 1989 07h 11m 21.00s
47.468 N 115.798 W
DEPTH = 0.0km (geophysicist)
MONTANA (456)
<SPEC>. MD 2.8 (BUT). Rockburst
in the Lucky Friday mine near
Mullan, Idaho. Solution held to
Lucky Friday mine coordinates.

DPW 1.67 285 eP 11 51.60 -0.2
HRY 2.81 104 ePn 12 08.30 0.1
LRM 2.83 124 ePc 12 08.10 -0.5
LCCM 3.15 120 ePnc 12 12.40 -0.6
CCMT 3.26 140 ePn 12 15.10 0.5
5 obs. associated

? FEB 24, 1989 07h 22m 18.51±0.97s
37.805 N ± 7.6km 29.336 E ±11.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

KHL 0.54 16 iPg 22 29.00 -0.4
iSg 22 38.00
ELL 1.15 156 ePn 22 40.00 -0.1
ALT 1.39 26 ePn 22 44.50 0.5
IZM 1.74 291 ePn 22 49.00 0.0
S.D. = 0.7 on 4 of 4 obs.

FEB 24, 1989 07h 33m 48.94±0.18s
14.159 N ± 3.2km 124.360 E ± 3.6km
DEPTH = 23.8km (4 depth phases)
5.2mb (21 obs.) 4.8Msz (5 obs.)

LUZON, PHILIPPINE ISLANDS (249)
CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
L.P.B.: 9S, 20C
Centroid Location:
Origin Time 07:33:49.7 0.4
Lat 14.12N FIX; Lon 124.37E FIX
Dep 24.3 3.4 Half-duration 2.6
Moment Tensor; Scale 10¹⁷ Nm
Mrr=1.23 0.11 Mtl=-0.21 0.10
Mff=-1.01 0.18 Mrt=-1.60 0.25
Mrf=2.96 0.42 Mtf=0.53 0.10
Principal Axes:
T Vol=3.56 Plg=55 Azm=241
N 0.05 1 332
P -3.61 35 62
Best Double Couple: Mo=3.6*10¹⁷
NP1: Strike=156 Dip=10 Slip= 94
NP2: 332 80 89

OCP 3.22 279 eP 34 29.00 -10.1X
BAG 4.28 302 ePc+ 34 53.40 -1.0
iS 36 01.00

DAV 7.13 170 eP 35 42.00 7.6X
ANP 11.29 347 eP 36 35.00 3.0X
TSM 11.66 213 ePc 36 41.50 4.5X
QZH 12.02 334 eP 36 43.50 1.7

Z 18s 3.40um
N 16s 3.70um

HKC 12.62 311 iPc 36 47.50 -2.3
GZH 13.70 312 eP 37 08.00 3.9X
Z 16s 9.40um
N 14s 3.80um
E 15s 6.60um

OIZ 14.73 291 eP 37 20.00 2.3
N 15s 4.00um
E 17s 7.20um
eS 40 04.00

SSE 17.11 351 P 37 51.00 2.9X
1.5s 128.00nm 4.8mb
Z 18s 3.60um 4.0Msz
N 16s 2.80um
E 16s 2.90um

sP 38 06.00
eS 40 59.00
sS 41 12.00
SS 41 18.00

KAGJ 17.98 18 eP 38 01.50 2.5
NJ2 18.51 345 Pc 38 06.00 0.5

N 11s 1.20um
E 11s 1.40um
WHN 18.73 332 iPc 38 08.00 -0.2
7.0s 1.81nm 2.4mb X
Z 16s 4.79um 4.5Msz X
N 14s 2.60um
E 14s 2.72um

S 41 40.00
KUMJ 19.22 17 P 38 14.20 0.0
GUMO 19.92 89 eP 38 22.00 0.0
PJG 19.92 89 eP 38 22.20 0.2
GUA 19.96 89 eP 38 21.80 -0.7
1.2s 837.50nm 5.9mb
Z 18s 4.95um 4.4Msz X

GYA 20.59 309 iPc 38 29.00 -0.1
Z 16s 5.80um 5.0Msz X
N 14s 5.90um
E 14s 3.50um

sP 38 42.00
PP 38 57.00

SHNJ 20.80 16 eP 38 30.70 -0.3
TKSJ 21.60 22 P 38 38.90 -0.3
SHK 21.63 19 eP 38 38.80 -0.7
LOE 22.01 281 eP 38 43.00 -0.5

WKYJ 22.41 25 eP 38 46.30 -1.1
YONJ 22.49 20 P 38 48.30 0.2
TIA 22.90 345 eP 38 51.40 -0.7

Z 20s 1.70um 4.5Msz
N 15s 1.10um
E 15s 1.90um

ePP 39 20.00
S 43 00.00

KMI 23.06 302 iPc+ 38 56.00 1.9
5.0s 1.70nm 2.8mb X
Z 18s 10.70um 5.3Msz
N 14s 3.90um
E 14s 3.30um

sP 39 18.00
PPP 39 42.00
eS 43 06.00
S 43 10.00
sS 43 30.00

NST 23.46 277 eP 38 59.80 2.2
KHKI 24.00 202 ePc 39 05.40 2.5
e 42 21.00

NNT 24.01 269 eP 39 03.00 0.0
KGM 24.04 242 eP 39 05.00 1.7
XAN 24.24 327 iPc 39 06.10 1.0

N 16s 3.00um
E 14s 2.50um

S 43 21.00
SNG 24.33 256 eP 39 05.00 -1.1
eS 43 37.40

IIDJ 24.48 27 eP 39 07.60 0.1
S 39 42.60

BDT 24.60 281 eP 39 07.90 -0.8
DL2 24.77 355 eP 39 10.00 -0.1

Z 18s 2.10um 4.7Msz
E 14s 2.70um
eS 43 28.00
esS 43 39.10

CHG 24.80 284 iPc 39 10.50 -0.2
1.0s 20.50nm 4.7mb
eS 43 52.00

IPM 24.89 250 ePd 39 11.70 0.1
0.7s 53.50nm 5.3mb

CD2 25.22 315 iPc 39 15.50 0.8
Z 17s 2.80um 4.8Msz X
N 14s 4.50um

eS 43 32.00
MTMJ 25.36 26 eP 39 17.10 1.1
CHJJ 25.44 28 P 39 17.50 0.9

TIY 25.74 338 Pc 39 19.00 -0.5
1.2s 0.10nm 2.3mb X
N 13s 1.80um

S 43 42.50
BJI 26.76 346 eP 39 28.00 -0.8
8.0s 0.42nm 2.1mb X

Z 20s 1.50um 4.5Msz
N 12s 1.00um
eS 44 00.00

SNY 27.58 359 Pc 39 34.50 -1.6
Z 18s 4.50um 5.1Msz
N 14s 1.70um
E 14s 1.70um

S 44 13.00
PSI 27.58 248 eP 39 38.00 1.6

| | | | | | | |
|-------------------------------|--------------|-----|--------|-------------------------------|-------------------|--------------|
| TIC | 125.69 | 289 | PKP | 52 | 50.76 | -0.4 |
| LIC | 125.86 | 289 | PKP | 52 | 51.16 | -0.3 |
| LPB | 167.75 | 103 | PKP | 53 | 59.00 | 3.5X |
| ZOBO | 167.77 | 101 | PKP | 53 | 57.40 | 1.6 |
| Z | 25s | | 0.22um | | | |
| CNCB | 167.82 | 104 | ePKP | 53 | 57.00 | 1.2 |
| CCH | 169.39 | 109 | (PKP) | 53 | 57.50 | 1.1 |
| S.D. = 1.0 on 135 of 152 obs. | | | | | | |
| <hr/> | | | | | | |
| % | FEB 24, 1989 | 08h | 46m | 58.73± | 1.00s | |
| | | | | 40.548 N ±12.4km | 109.443 E ± 7.3km | |
| | | | | DEPTH = 10.0km (geophysicist) | | |
| NORTHERN CHINA | | | | (323) | | |
| ML 3.6 (BJI). | | | | | | |
| BTO | 0.44 | 83 | iPg | 47 | 07.50 | -0.2 |
| | | | Sg | 47 | 14.20 | |
| HHC | 1.64 | 79 | iPg | 47 | 28.10 | 0.3 |
| | | | Sg | 47 | 50.00 | |
| TIY | 3.66 | 140 | ePn | 47 | 56.70 | 0.0 |
| | | | Pg | 48 | 03.70 | |
| | | | Sg | 48 | 50.60 | |
| BJI | 5.17 | 93 | Pg | 48 | 31.00 | 13.0X |
| | | | Sg | 49 | 39.00 | |
| LZH | 6.26 | 226 | Pn | 48 | 55.50 | 21.9X |
| | | | Sn | 50 | 11.00 | |
| XAN | 6.51 | 184 | Pn | 48 | 37.00 | 0.0 |
| GTA | 7.48 | 264 | Pn | 48 | 50.60 | -0.1 |
| | | | Pg | 49 | 16.00 | |
| | | | Sn | 50 | 15.00 | |
| | | | Sg | 50 | 50.00 | |
| KMI | 16.37 | 202 | Pg | 50 | 46.00 | -4.4X |
| | | | Sg | 51 | 34.00 | |
| S.D. = 0.3 on 5 of 8 obs. | | | | | | |
| <hr/> | | | | | | |
| FEB 24, 1989 | | | | 08h | 48m | 36.01± 0.79s |
| | | | | 42.944 N ± 6.2km | 13.006 E ± 6.6km | |
| | | | | DEPTH = 10.0km (geophysicist) | | |
| CENTRAL ITALY | | | | (381) | | |
| CIO | 0.27 | 22 | iPg | 48 | 41.11 | -0.6 |
| | | | iSg | 48 | 48.44 | |
| ASS | 0.28 | 297 | P | 48 | 42.60 | 0.6 |
| | | | eSg | 48 | 46.10 | |
| ALP | 0.45 | 111 | iPg | 48 | 45.24 | 0.0 |
| | | | iSg | 48 | 55.97 | |
| SSO | 0.46 | 41 | e(Pg) | 48 | 45.16 | -0.3 |
| | | | iSg | 48 | 55.82 | |
| ARV | 0.56 | 355 | P | 48 | 46.40 | -0.9 |
| | | | eSg | 48 | 55.80 | |
| MNS | 0.61 | 203 | P | 48 | 48.00 | -0.3 |
| | | | eSg | 48 | 58.50 | |
| AOI | 0.75 | 36 | e(Pg) | 48 | 52.13 | 1.5 |
| | | | iSg | 49 | 05.66 | |
| S.D. = 1.0 on 7 of 7 obs. | | | | | | |
| <hr/> | | | | | | |
| ? FEB 24, 1989 | 09h | 04m | 37.83± | 0.96s | | |
| | | | | 39.157 N ± 8.9km | 27.621 E ± 9.5km | |
| | | | | DEPTH = 10.0km (geophysicist) | | |
| TURKEY | | | | (366) | | |
| Izm | 0.81 | 200 | ePg | 04 | 53.70 | 0.2 |
| | | | eSg | 05 | 05.00 | |
| DST | 0.90 | 60 | ePn | 04 | 54.60 | -0.5 |
| EZN | 1.20 | 304 | ePn | 05 | 00.00 | -0.3 |
| KCT | 1.23 | 27 | iPn | 05 | 01.30 | 0.6 |
| S.O. = 0.8 on 4 of 4 obs. | | | | | | |
| <hr/> | | | | | | |
| FEB 24, 1989 | | | | 09h | 41m | 59.58± 0.89s |
| | | | | 50.613 N ± 6.2km | 129.564 W ± 9.6km | |
| | | | | DEPTH = 10.0km (geophysicist) | | |
| 4.3mb (1 obs.) | | | | | | |
| VANCOUVER ISLAND REGION | | | | (25) | | |
| PHC | 1.36 | 85 | iPnc | 42 | 26.00 | 1.5 |
| | | | Sn | 42 | 46.80 | |
| EDB | 1.74 | 114 | Pn | 42 | 28.78 | -1.1 |
| ETB | 2.31 | 121 | Pn | 42 | 32.08 | -6.2X |
| CBB | 2.75 | 101 | iPnc | 42 | 45.04 | 0.5 |
| BTB | 2.85 | 112 | iPnc | 42 | 45.16 | -0.9 |
| OZB | 3.11 | 121 | Pn | 42 | 47.81 | -1.8 |
| OOW | 4.55 | 127 | eP | 43 | 09.94 | -0.1 |
| STW | 4.57 | 120 | eP | 43 | 09.93 | -0.4 |
| MCW | 4.78 | 111 | eP | 43 | 13.52 | 0.1 |
| BLN | 5.04 | 119 | eP | 43 | 16.70 | -0.3 |
| OHW | 5.13 | 114 | eP | 43 | 18.94 | 0.8 |
| HD | | | | | | |

24d 09h

MBW 5.30 107 eP 43 20.91 0.1
 CMW 5.32 111 eP 43 21.09 0.0
 GMW 5.41 122 eP 43 21.75 -0.4
 JCW 5.54 113 eP 43 23.49 -0.6
 CPW 5.59 128 eP 43 24.41 -0.5
 BLH 5.66 116 eP 43 25.80 0.0
 RPW 5.67 109 eP 43 25.88 -0.1
 HTW 5.83 116 eP 43 28.12 0.0
 BMW 5.90 132 eP 43 37.50 8.3X
 RMW 6.00 119 eP 43 30.50 0.0
 LON 6.43 124 eP 43 36.00 -0.6
 PNT 6.55 98 eP 43 39.00 0.7
 SHW 6.58 129 eP 43 38.00 -0.9
 SES 11.80 84 ePd 44 49.60 -1.2
 LRM 12.37 106 eP 44 58.60 -0.2
 KVN 14.11 141 eP 45 22.50 0.7
 YKA 14.43 29 P 45 27.00 1.4
 TNP 15.30 140 eP 45 37.50 0.2
 BW06 15.77 112 eP 45 46.00 2.5
 ISA 16.96 148 eP 46 01.00 2.6
 CLC 17.13 145 eP 46 03.00 2.4
 INK 17.86 355 eP 46 08.00 -1.3
 MWC 18.41 148 eP 46 16.00 -0.6
 RVR 18.85 147 eP 46 21.00 -0.8
 TPC 19.23 144 eP 46 23.00 -3.5X
 GLA 20.63 143 eP 46 40.00 -1.6
 ALO 22.94 124 eP 47 05.50 0.4
 MBC 26.05 6 eP 47 34.00 -0.1
 TUL 28.36 108 eP 47 55.60 0.0
 0.9s 5.50nm 4.3mb
 LND 28.36 108 e(P) 47 52.00 -3.5X
 RLO 28.66 107 e(P) 47 57.90 -0.4
 S.D. = 1.1 on 39 of 43 obs.

% FEB 24, 1989 09h 49m 10.21 ± 0.92s
 37.782 N ± 7.6km 29.676 E ± 20.4km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

KHL 0.55 347 iPg 49 20.60 -0.9
 ELL 1.05 170 iPn 49 30.00 -0.1
 ALT 1.32 15 ePn 49 34.80 0.2
 DST 2.00 336 ePn 49 45.60 1.2
 KCT 2.67 338 ePn 49 54.00 0.0
 BNT 2.91 333 ePn 49 57.00 -0.4
 S.D. = 0.9 on 6 of 6 obs.

% FEB 24, 1989 10h 03m 54.37 ± 0.87s
 39.120 N ± 7.2km 27.627 E ± 9.0km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

IZM 0.78 202 ePg 04 09.30 -0.2
 DST 0.92 58 iPg 04 12.60 0.7
 eSg 04 26.60
 EZN 1.23 305 ePn 04 17.60 0.4
 EDC 1.24 8 ePn 04 17.00 -0.4
 BNT 1.26 10 iPn 04 18.00 0.3
 KCT 1.26 26 ePn 04 17.00 -0.8
 S.D. = 0.7 on 6 of 6 obs.

% FEB 24, 1989 10h 34m 36.85 ± 0.75s
 60.631 N ± 6.3km 6.230 E ± 9.6km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN NORWAY (535)
 MD 2.0 (BER).

HYA 0.54 358 iP 34 47.45 -0.3
 eS 34 55.04
 ODD1 0.75 164 iP 34 51.12 -0.4
 eS 34 59.54
 SUE 0.84 301 eP 34 53.18 0.2
 eS 35 00.83
 BLS1 1.28 166 iP 35 00.88 0.2
 iS 35 16.67
 NRA0 2.62 85 iPc 35 20.10 0.3
 iPg 35 22.90
 iS 35 57.00
 S.D. = 0.4 on 5 of 5 obs.

* FEB 24, 1989 10h 54m 28.51 ± 0.60s
 4.402 S ± 9.4km 134.905 E ± 8.3km
 DEPTH = 33.0km (normol)
 4.5mb (4 obs.)
 WEST IRIAN REGION (196)

MNDI 8.89 102 eP 56 38.50 0.6

MTN 9.18 204 eP 56 40.00 -1.8
 eS 58 22.00
 KNA 12.79 208 eP 57 27.50 -3.3X
 0.3s 50.00nm 6.1mb X
 e 59 43.00
 PMG 13.14 113 eP 57 34.00 -1.4
 WB5 15.39 182 eP 58 00.80 -4.3X
 i 58 11.00
 iS 00 47.10
 WRA 15.46 182 Pc 58 01.20 -4.7X
 0.5s 2.10nm 3.6mb
 OIS 16.70 164 eP 58 21.00 -0.7
 e 58 23.00
 e 01 15.00
 e 03 20.00
 CTA 19.11 146 iPd 58 54.00 2.4X
 0.9s 88.24nm 5.0mb
 i 58 58.00
 pP 59 05.20 48kmX
 eS 02 20.00
 MBL 22.18 220 eP 59 24.00 0.5
 WARB 23.06 199 eP 59 24.50 -7.7X
 RMO 25.65 150 eP 00 09.00 11.9X
 NANU 26.03 224 eP 00 01.70 1.1
 FORR 27.08 193 eP 00 11.00 0.9
 BRS 28.52 145 eP 00 25.00 1.7
 CHG 42.27 304 iP 02 21.20 0.4
 BJI 47.46 340 (P) 03 11.00 8.9X
 KKN 57.53 307 P 04 17.20 -0.5
 DMN 57.59 307 P 04 17.80 -0.4
 GKN 58.13 307 P 04 21.40 -0.4
 0.8s 10.00nm 4.9mb
 GBA 59.77 288 P 04 33.00 -0.1
 0.4s 0.60nm 4.1mb
 CNCB 149.08 134 PKP 14 21.00 8.6X
 LPB 149.18 133 (PKP) 14 24.00 11.6X
 ZOBO 149.33 133 PKP 14 16.00 3.2X
 S.D. = 1.1 on 13 of 23 obs.

% FEB 24, 1989 11h 35m 44.97 ± 0.99s
 37.735 N ± 8.8km 29.355 E ± 10.8km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

KHL 0.60 13 iPg 35 56.10 -1.1
 iSg 36 07.10
 BCK 1.02 105 ePn 36 05.50 1.2
 ELL 1.08 156 iPn 36 04.50 -0.9
 ALT 1.45 24 ePn 36 10.50 -0.8
 IZM 1.78 292 ePn 36 16.00 0.0
 DST 1.95 343 ePn 36 20.00 1.5
 S.D. = 1.4 on 6 of 6 obs.

FEB 24, 1989 11h 46m 02.31 ± 0.99s
 9.460 S ± 7.7km 159.004 E ± 7.9km
 DEPTH = 69.7 ± 9.0 km
 4.7mb (7 obs.)
 SOLOMON ISLANDS (193)

HNR 0.93 88 eP 46 18.00 -2.2
 eS 46 28.00
 PAA 4.69 312 iPd 47 15.00 2.8
 eS 48 14.00
 RAB 8.57 307 eP 48 07.00 0.9
 PMG 11.69 269 eP 48 50.00 1.6
 CTA 16.22 228 iPd 49 44.00 -3.4X
 1.6s 833.33nm 5.6mb X
 i 49 50.50
 eS 53 00.00
 BRS 18.78 197 iPd 50 19.00 0.1
 i 50 24.30
 e 51 00.00
 eS 53 48.00
 RMO 19.52 209 iPc 50 34.80 7.9X
 OIS 21.72 237 iPd 50 49.50 0.1
 COD 22.03 197 eP 50 57.80 5.3X
 CMS 25.10 207 eP 51 22.00 -0.2
 WB5 25.95 244 iPd 51 29.60 -0.6
 WRA 25.99 244 Pd 51 29.40 -1.2
 0.9s 21.10nm 4.7mb
 BWA 26.68 200 eP 51 36.80 0.1
 CAN 27.32 198 eP 51 50.80 8.3X
 STK 27.54 213 eP 51 45.00 0.5
 WARB 34.87 237 iPc 52 38.40 -10.7X
 0.9s 35.00nm
 BAG 45.89 304 eP 54 18.00 -2.1
 WHN 58.47 315 P 55 52.50 -1.1

MDJ 60.03 336 eP 56 02.50 -1.6
 CN2 61.14 333 Pc 56 10.40 -1.3
 BJI 63.20 324 eP 56 24.00 -1.4
 TIY 64.00 320 eP 56 29.20 -1.7
 XAN 64.23 315 P 56 31.00 -1.4
 CHG 65.54 296 iPc 56 40.70 -0.4
 0.8s 7.46nm 4.7mb
 CD2 66.43 310 eP 56 46.00 -0.6
 HHC 66.43 322 P 56 45.60 -0.9
 LZH 68.85 315 eP 57 02.00 0.1
 GTA 73.25 316 Pc 57 28.20 0.0
 SHL 73.96 300 iP 57 32.50 -0.1
 TTA 79.98 19 eP 58 06.10 0.9
 PKI 80.09 300 P 58 07.00 0.1
 KKN 80.26 300 P 58 08.20 0.5
 DMN 80.35 300 P 58 08.70 0.5
 GKN 80.86 300 P 58 11.00 0.2
 1.0s 33.00nm 5.2mb
 PMR 81.49 22 eP 58 13.50 0.4
 0.7s 7.10nm 4.7mb
 IMA 82.89 18 eP 58 21.30 0.8
 1.0s 6.30nm 4.5mb
 WMO 83.33 316 P 58 23.00 -0.1
 FBA 84.01 20 eP 58 25.90 -0.1
 GBA 84.12 285 Pc 58 27.40 -0.1
 0.8s 6.90nm 4.7mb
 BRW 85.79 13 eP 58 35.60 0.8
 KVN 90.43 51 P 59 00.20 2.4
 TNP 90.91 52 P 59 02.30 2.2
 1.0s 3.58nm 4.7mb
 BNG 140.45 266 ePKPc 05 26.30 -0.1
 0.8s 4.00nm
 id 05 40.00
 ATB 146.40 111 e(PKP)05 38.90 2.3
 S.D. = 1.2 on 39 of 44 obs.

FEB 24, 1989 12h 12m 32.15 ± 0.25s
 23.452 N ± 5.5km 143.277 E ± 4.0km
 DEPTH = 42.5km (6 depth phases)
 4.8mb (17 obs.) 4.2Msz (5 obs.)
 VOLCANO ISLANDS REGION (213)

IIDJ 12.86 340 P 15 29.90 -5.0X
 eS 17 56.70
 KAKJ 12.99 349 P 15 34.50 -2.0
 CHJJ 13.09 345 P 15 33.40 -4.5X
 eS 17 55.10
 MTMJ 13.92 341 P 15 43.80 -5.0X
 NIJJ 14.23 346 P 15 47.50 -5.3X
 SHK 14.41 322 eP 15 56.00 0.8
 SSE 21.04 296 eP 17 14.00 -0.7
 1.0s 49.00nm 4.8mb
 Z 20s 0.50um 3.9Msz
 E 16s 0.50um
 pP 17 20.00 22kmX
 eS 21 08.00
 sS 21 21.00
 MDJ 23.90 335 eP 17 43.50 0.7
 Z 20s 1.30um 4.4Msz
 S 22 00.00
 SNY 24.62 323 Pc 17 48.00 -1.8
 Z 18s 0.80um 4.3Msz
 E 18s 0.80um
 eS 22 00.00
 CN2 25.05 328 eP 17 53.00 -0.9
 TIA 25.92 305 Pd 18 01.70 -0.4
 E 17s 0.90um
 WHN 26.68 292 eP 18 10.00 0.9
 Z 20s 1.27um 4.5Msz
 BJI 28.21 312 eP 18 21.00 -1.9
 Z 20s 0.36um 4.0Msz
 TIY 29.96 305 eP 18 38.40 -0.4
 E 14s 0.50um
 HHC 31.73 311 P 18 53.90 -0.5
 BTO 32.73 309 eP 19 03.00 -0.1
 N 15s 0.50um
 E 15s 0.50um
 GYA 33.26 283 P 19 08.60 0.7
 CD2 35.79 291 P 19 30.00 0.6
 LZH 36.23 299 eP 19 33.50 0.2
 GTA 39.95 304 eP 20 03.60 -0.7
 CHG 41.49 272 iPd 20 18.20 1.2
 1.0s 14.50nm 4.7mb
 CHTO 41.49 272 eP 20 17.50 0.5
 1.1s 14.13nm 4.6mb
 epP 20 30.00 46km
 BDT 41.84 270 eP 20 20.20 0.3

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| | | | | | | | RSON | | | | | | | 90.95 346 P | | | | | | | 49 59.30 -1.9 | | | | | | | | | | | | | | pP | | | | | | | 43 58.00 35kmX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | 1.0s 25.00nm | | | | | | | 5.5mb | | | | | | | | | | | | | | S | | | | | | | 47 56.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZON | 7.02 | 18 | eP | 38 | 29.00 | -14.1X | WDC | 91.48 | 323 | eP | 50 | 03.30 | -0.5 | GYA | 25.23 | 22 | P | 44 | 11.00 | 0.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

24d 13h

KEV 79.96 341 eP 50 53.00 0.3
 ZST 80.43 318 e(P) 50 55.90 0.3
 KSP 81.22 321 eP 51 00.50 0.8
 id 51 13.00
 UPP 81.57 330 iP 51 01.10 -0.2
 KHC 82.83 319 iPd 51 09.20 1.0
 KBA 82.87 317 eP 51 03.50 -5.1X
 1.0s 6.30nm 4.6mb
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NB2 84.85 331 P 51 16.60 -1.5
 1.1s 13.90nm 5.0mb
 LPG 87.43 315 eP 51 31.40 -0.1
 0.9s 11.40nm 5.1mb
 HAU 87.62 318 eP 51 31.20 -0.8
 0.9s 11.10nm 5.1mb
 BRW 92.43 18 eP 51 55.20 1.2
 DAG 92.53 348 iPd 51 54.00 -0.4
 0.8s 6.72nm 5.1mb
 IMA 95.16 23 eP 52 07.90 1.1
 1.2s 13.70nm 5.3mb
 MBC 98.12 8 eP 52 20.00 0.1
 PWA 98.33 26 eP 52 20.80 -0.2
 LRM 124.99 24 ePKP 57 44.90 0.5
 e 57 55.40

ALQ 136.51 27 ePKP 58 08.00 1.3
 CNCB 159.41 228 ePKP 58 45.00 1.8
 LPB 159.67 228 (PKP) 58 48.00 4.7X
 ZOBO 159.85 229 ePKP 58 45.00 1.3
 e 58 55.00

S.D. = 0.9 on 84 of 96 obs.

* FEB 24, 1989 14h 07m 15.54 ± 1.55s
 3.415 S ± 13.1km 127.349 E ± 26.8km
 DEPTH = 74.2 ± 22.2 km
 4.5mb (6 obs.)

CERAM (272)

AAI 0.89 108 iPd 07 32.90 -0.2
 iS 07 46.30
 MTN 10.09 158 eP 09 22.70 -17.2X
 eS 11 38.00
 WB5 17.74 158 eP 11 20.00 0.8
 WRA 17.79 158 P 11 20.00 0.2
 0.4s 4.20nm 4.0mb
 QIS 20.81 146 eP 11 53.00 -0.1
 WARB 22.65 182 eP 12 03.50 -7.9X
 0.4s 5.00nm 4.3mb
 MEKA 24.57 199 eP 12 30.00 0.1
 FORR 27.30 179 iPd 12 54.10 -1.0
 0.4s 13.00nm 4.8mb
 PKI 50.81 310 P 16 11.00 -0.1
 0.5s 2.00nm 4.4mb
 KKN 51.02 310 P 16 12.60 0.1
 0.6s 4.00nm 4.6mb
 DMN 51.06 310 P 16 13.20 0.3
 GKN 51.62 310 P 16 17.00 0.0
 0.6s 11.00nm 5.1mb

S.D. = 0.5 on 10 of 12 obs.

? FEB 24, 1989 15h 16m 23.51 ± 10.45s
 22.090 N ± 64.4km 119.846 E ± 47.9km
 DEPTH = 10.0km (geophysicist)

TAIWAN REGION (243)

TWK 1.31 27 eP 16 47.80 0.0
 eS 17 01.70
 TWG 1.35 57 ePd 16 48.40 0.1
 TWF1 1.84 47 ePd 16 55.20 -0.1
 TWQ 2.36 23 ePc 17 02.90 0.0
 S.D. = 0.2 on 4 of 4 obs.

FEB 24, 1989 15h 24m 24.00 ± 0.57s
 37.788 N ± 5.1km 29.348 E ± 7.0km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

KHL 0.55 14 iPg 24 34.60 -0.7
 BCK 1.04 108 iPn 24 43.50 -0.2
 ELL 1.13 157 iPn 24 42.50 -2.8
 ALT 1.40 25 iPn 24 50.00 0.4
 KSL 1.68 173 eP 24 54.10 0.6
 eS 25 21.00
 IZM 1.75 291 ePn 24 53.40 -1.3
 DST 1.90 343 ePn 24 56.60 -0.2
 KCT 2.58 343 ePn 25 06.00 -0.5
 GPA 2.61 16 ePn 25 08.00 1.1
 YLV 2.78 0 ePn 25 10.00 0.6

BNT 2.80 337 ePn 25 09.00 -0.6
 EDC 2.80 336 ePn 25 10.00 0.3
 KAP 2.83 219 eP 25 11.00 0.9
 eS 25 46.50
 EZN 3.12 312 ePn 25 12.60 -1.5
 BBTk 3.36 51 eP 25 19.00 1.2
 NPS 3.92 231 eP 25 28.00 2.4

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

& FEB 24, 1989 15h 52m 33.30s
 33.070 N 117.930 W
 DEPTH = 6.0km (geophysicist)
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 3.2 (PAS).

CIS 0.52 310 eP 52 42.90 -0.8
 SCI 0.53 260 iPc 52 43.30 -0.6
 PLM 0.94 72 iPc 52 50.30 -1.4
 PEC 1.04 38 eP 52 52.20 -1.2
 GLA 2.61 90 eP 53 16.20 -0.5
 KVN 5.97 359 e(P) 54 17.00 12.5
 6 obs. associated

? FEB 24, 1989 16h 07m 31.17 ± 1.56s
 21.017 S ± 16.5km 67.157 W ± 28.7km
 DEPTH = 200.0 ± 11.9 km

CHILE-BOLIVIA BORDER REGION (124)

HJA 2.72 144 iPc 08 16.80 -1.2
 S 08 47.20
 CCH 3.74 15 iPc 08 31.10 0.5
 0.5s 6.00nm
 CNCB 4.26 349 iPc 08 37.10 -0.2
 LPB 4.55 349 iPc 08 41.00 0.1
 1.0s 500.00nm
 ZOBO 4.81 349 iPc 08 43.20 -1.2
 BAO 18.96 77 eP 11 40.60 0.8
 KIC 67.00 73 Pd 18 03.80 -1.1
 KUK 70.86 75 eP 18 28.00 -0.5
 HYB 147.46 90 ePKP 26 53.50 2.7

S.D. = 1.6 on 9 of 9 obs.

& FEB 24, 1989 16h 15m 00.08s
 37.128 N 116.122 W
 DEPTH = 0.0km
 4.4mb (4 obs.)

SOUTHERN NEVADA (41)

<DOE>. ML 4.5 (BRK). 37' 07'
 42.55" N., 116' 07" 19.05" W.,
 Surface Elev. 1379 m., Depth of
 Burial 400 m., Shot Time
 161500.081, "KAWICH," Nevada
 Test Site (Dept of Energy).

GLR 0.11 49 iPc 15 02.60 0.3
 BGB 0.12 223 iPc 15 03.30 0.7
 CPX 0.20 165 iPc 15 04.40 0.2
 TMBR 0.23 246 iPc 15 05.20 0.5
 CDH1 0.31 210 iPc 15 06.20 -0.1
 GMR 0.35 54 iPc 15 07.50 0.5
 YMT5 0.35 229 iPc 15 07.20 0.1
 YMT6 0.35 220 iPc 15 07.40 0.3
 YMT4 0.38 223 iPc 15 07.60 -0.2
 LSM 0.41 197 iPc 15 08.00 -0.2
 YMT3 0.41 215 iPc 15 08.40 0.1
 YMT1 0.43 230 iPc 15 08.90 0.3
 BMTN 0.44 291 eP 15 09.20 0.2
 YMT2 0.45 221 iPc 15 09.00 -0.1
 SPRG 0.50 150 iPc 15 09.90 -0.2
 SDH 0.51 200 iPc 15 09.80 -0.5
 KRNA 0.65 342 iPc 15 13.00 0.0
 QCS 0.66 14 iPc 15 12.40 -0.8
 CTS 0.71 318 iPc 15 14.20 -0.1
 SGV 0.74 259 iPc 15 14.80 -0.1
 AMR 0.78 201 eP 15 15.00 -0.7
 MTI 0.87 51 iPc 15 16.50 -1.0
 PRN 0.90 72 eP 15 17.40 -0.6
 GMN 0.92 281 ePc 15 17.80 -0.7
 WRN 0.95 26 ePc 15 17.90 -1.3
 GVN 0.98 263 eP 15 18.80 -0.9
 SHRG 0.99 128 eP 15 18.50 -1.5
 NOP 1.00 181 ePc 15 18.70 -1.3
 GWY 1.04 205 eP 15 19.70 -1.1
 TMO 1.08 253 eP 15 20.80 -0.7
 SRG 1.13 48 eP 15 21.50 -0.7
 HCR 1.13 347 iPc 15 21.50 -0.9
 MGM 1.14 286 iPc 15 21.80 -0.7

MZP 1.16 300 iPc 15 22.00 -0.8
 DLM 1.20 66 iPc 15 23.00 -0.5
 LCH 1.22 275 iPc 15 23.20 -0.7
 TNP 1.29 318 iPc 15 24.90 -0.2
 PPK 1.45 282 iPc 15 27.50 -0.3
 SVP 1.46 294 iPc 15 27.80 -0.2
 CLC 1.77 223 iPc 15 31.50 -0.7
 GSC 1.90 197 iPc 15 33.70 -0.5
 MNA 2.07 310 ePc 15 36.30 -0.4
 i 16 09.60

KVN 2.47 321 iPc 15 41.90 -0.6
 FRI 2.87 268 iPc 15 47.80 -0.2
 iS 16 33.40
 TPC 3.02 179 ePc 15 49.30 -0.8
 PEC 3.34 195 ePc 15 54.30 -0.4
 PKEM 3.38 253 eP 15 56.00 0.8
 CMB 3.51 286 iPc 15 56.50 -0.5
 iS 16 53.40

PHAM 3.68 251 eP 15 59.00 -0.5
 BCH 3.75 240 eP 16 00.00 -0.5
 PRI 3.78 256 ePc 16 02.20 1.1
 PLM 3.81 189 iPc 16 01.10 -0.5
 LLA 3.90 264 ePc 16 03.60 1.0
 BKS 4.92 281 eP 16 26.90 9.8
 LBFM 6.15 315 eP 16 34.80 0.2
 BW06 7.57 40 eP 16 54.00 -0.6
 ALQ 8.13 103 eP 17 00.70 -1.7
 LRM 9.11 16 eP 17 08.20 -7.9
 RSON 21.07 42 eP 19 46.00 -2.1
 1.1s 20.35nm 4.4mb

PMR 31.97 331 eP 21 30.00 0.4
 0.7s 3.63nm 4.4mb
 FBA 33.52 336 eP 21 43.20 0.1
 0.7s 3.92nm 4.4mb
 IMA 36.18 335 eP 22 06.00 0.0
 0.8s 2.59nm 4.1mb
 FRB 38.91 32 eP 22 29.00 0.2
 MBC 39.24 359 eP 22 31.00 -0.4
 64 obs. associated

? FEB 24, 1989 16h 42m 34.32 ± 1.49s
 27.832 S ± 17.8km 176.620 W ± 25.4km
 DEPTH = 10.0km (geophysicist)
 5.3mb (2 obs.)

KERMADEC ISLANDS REGION (177)

VUN 10.77 334 ePc 45 10.30 -1.4
 SGE 11.37 333 ePc 45 20.70 0.8
 DZM 16.39 287 iPd 46 27.60 1.5
 HNR 28.68 305 eP 48 28.00 -5.6X
 WB5 45.28 269 eP 50 52.60 -1.6
 PSI 86.34 275 eP 55 17.00 -1.3
 e 57 00.00
 BJI 91.96 315 eP 55 43.50 -0.7
 KMI 93.76 296 P 55 54.00 0.8
 CHG 93.87 289 iPc 55 55.00 1.5X
 1.0s 15.00nm 5.3mb
 CHTO 93.87 289 iP 55 54.20 0.7
 1.1s 14.72nm 5.3mb
 NB2 146.38 353 PKP 02 16.40 1.2
 0.9s 13.00nm
 BNG 152.61 215 ePKPd 02 39.00 12.9X
 0.8s 14.00nm
 id 02 49.00

S.D. = 1.4 on 9 of 12 obs.

% FEB 24, 1989 16h 48m 23.75 ± 1.51s
 42.354 N ± 15.4km 2.478 E ± 6.6km
 DEPTH = 10.0km (geophysicist)

PYRENEES (378)

ML 3.3 (LDG).

EPF 1.72 294 Pn 48 54.20 0.3
 Pg 48 55.70
 LPO 2.51 338 Pg 49 12.00 6.8X
 Sn 49 34.80
 Sg 49 42.20
 CAF 2.59 353 Pn 49 07.30 0.9
 Pg 49 12.20
 Sg 49 45.40
 LFF 2.88 335 Pn 49 10.20 -0.2
 RJF 3.03 347 Pn 49 12.40 -0.2
 Pg 49 22.30
 Sn 49 46.20
 Sg 49 59.70
 LRG 3.06 68 Pn 49 13.00 0.0
 Sn 49 49.40

| | | | | | | |
|--------------------|-------|--------|----|----|-------|------|
| MCK | 5.00 | 339 | eP | 03 | 54.98 | -6.2 |
| SIT | 5.49 | 108 | eP | 04 | 02.70 | -5.5 |
| DWY | 5.58 | 26 | P | 04 | 03.30 | -6.1 |
| SVW | 5.71 | 295 | eP | 04 | 06.00 | -5.3 |
| FBA | 5.94 | 348 | eP | 04 | 07.00 | -7.4 |
| TTA | 6.60 | 310 | eP | 04 | 18.70 | -5.1 |
| IMA | 8.04 | 334 | eP | 04 | 36.60 | -7.4 |
| SDN | 9.26 | 252 | eP | 04 | 54.10 | -6.7 |
| INK | 10.47 | 24 | eP | 05 | 09.00 | -8.4 |
| YKA | 15.08 | 64 | P | 06 | 21.10 | 2.3 |
| PNT | 17.65 | 113 | eP | 06 | 51.00 | -0.6 |
| MBC | 19.39 | 18 | eP | 07 | 06.00 | -6.7 |
| | 0.8s | 8.00nm | | | 4.0mb | |
| FFC | 23.52 | 82 | eP | 08 | 00.00 | 5.1 |
| | 0.8s | 9.00nm | | | 4.4mb | |
| KVN | 26.37 | 128 | eP | 08 | 21.50 | -1.0 |
| BW06 | 27.20 | 111 | eP | 08 | 28.00 | -2.1 |
| NB2 | 58.73 | 13 | P | 12 | 38.20 | -5.9 |
| | 0.8s | 3.40nm | | | 4.5mb | |
| GKN | 84.00 | 317 | P | 15 | 13.00 | -3.1 |
| 55 obs. associated | | | | | | |

% FEB 24, 1989 20h 08m 48.53± 1.08s
39.224 N ± 8.4km 28.849 E ±11.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

TURKEY (366)

| | | | | | |
|---------------------------|------|-----|-----|----------|------|
| DST | 0.42 | 336 | iPg | 08 56.70 | -0.4 |
| | | | eSg | 09 03.70 | |
| ALT | 1.00 | 99 | iPg | 09 07.60 | 0.1 |
| | | | eSg | 09 19.30 | |
| KHL | 1.04 | 149 | ePn | 09 08.20 | -0.1 |
| KCT | 1.09 | 340 | iPn | 09 09.50 | 0.5 |
| YLV | 1.40 | 17 | iPn | 09 14.20 | 0.0 |
| GPA | 1.55 | 46 | ePn | 09 16.00 | -0.2 |
| S.D. = 0.4 on 6 of 6 obs. | | | | | |

FEB 24, 1989 20h 22m 07.97 ± 0.52s
46.901 N ± 5.0km 0.317 E ± 6.0km
DEPTH = 17.2 ± 5.9 km
FRANCE (538)
ML 3.4 (LDG).

| | | | | | | |
|-----|------|-----|----|----|-------|------|
| MFF | 0.44 | 227 | Pg | 22 | 16.90 | 0.1 |
| | | | Sg | 22 | 22.60 | |
| LSF | 1.06 | 127 | Pn | 22 | 28.30 | 0.8 |
| | | | Sg | 22 | 42.90 | |
| TCF | 1.44 | 114 | Pn | 22 | 34.20 | 0.9 |
| | | | Pg | 22 | 35.30 | |
| | | | Sg | 22 | 53.00 | |
| LPF | 1.46 | 321 | Pn | 22 | 33.30 | -0.2 |
| | | | Pg | 22 | 34.40 | |
| | | | Sg | 22 | 53.00 | |
| GRR | 1.69 | 332 | Pn | 22 | 36.30 | -0.5 |
| | | | Pg | 22 | 38.20 | |
| | | | Sg | 23 | 00.10 | |
| MAF | 1.69 | 113 | Pn | 22 | 36.50 | -0.5 |
| | | | Pg | 22 | 38.80 | |
| | | | Sg | 23 | 00.90 | |
| LDF | 1.72 | 350 | Pn | 22 | 37.00 | -0.3 |
| | | | Pg | 22 | 38.80 | |
| | | | Sg | 23 | 00.60 | |
| BGF | 1.77 | 100 | Pg | 22 | 39.50 | 1.4 |
| | | | Sg | 23 | 02.50 | |
| RJF | 1.80 | 152 | Pn | 22 | 38.50 | 0.0 |
| | | | Pg | 22 | 41.40 | |
| | | | Sg | 23 | 04.60 | |

| EN | 1.54 | 344 | Pg | 22 | 42.40 | 1.9 |
|-----|------|-----|----|----|-------|------|
| LFF | 1.98 | 171 | Sg | 23 | 07.00 | 0.7 |
| | | | Pn | 22 | 41.80 | |
| | | | Pg | 22 | 45.90 | |
| AVF | 2.09 | 92 | Sg | 23 | 11.40 | -0.5 |
| | | | Pn | 22 | 42.10 | |
| | | | Pg | 22 | 46.00 | |
| LPO | 2.30 | 164 | Sg | 23 | 11.80 | 4.1X |
| | | | Pg | 22 | 49.80 | |
| | | | Sg | 23 | 19.40 | |
| CAF | 2.32 | 148 | Pn | 22 | 44.10 | -1.9 |
| | | | Pg | 22 | 50.60 | |
| | | | Sg | 23 | 20.20 | |
| SMF | 2.44 | 95 | Pg | 22 | 52.00 | 4.4X |
| | | | Sg | 23 | 21.70 | |
| | | | Pg | 22 | 53.10 | |
| LOR | 2.45 | 80 | Sg | 23 | 22.30 | 5.3X |
| | | | Pn | 22 | 48.60 | |
| | | | Pg | 22 | 54.10 | |
| LBF | 2.51 | 87 | Sa | 23 | 24.00 | -0.1 |

24d 20h

EPF 3.87 180 Pn 23 08.00 0.0
 Sn 23 48.80
 Sg 24 12.60
 DOU 4.28 40 Pn 23 12.60 -1.2
 S.D. = 1.1 on 16 of 19 obs.

FEB 24, 1989 20h 31m 16.74 ± 0.43s
 2.339 N ± 7.5km 126.631 E ± 11.7km
 DEPTH = 33.0km (normol)
 4.7mb (7 obs.)

MOLUCCA PASSAGE (266)

MTN 15.73 164 eP 34 58.00 0.3
 KNA 18.10 173 eP 35 27.00 -0.4
 WB5 23.35 161 iPc 36 23.00 -0.3
 OIS 26.07 151 eP 36 48.00 -1.2
 NANU 27.02 203 iPc 36 59.10 1.2
 0.4s 4.00nm 4.4mb
 WARB 28.35 180 eP 37 01.70 -8.3X
 BDT 30.92 300 eP 37 33.00 0.1
 CHTO 31.67 303 eP 37 40.50 0.9
 0.8s 9.15nm 4.7mb
 FORR 33.03 178 iPc 37 50.50 -0.7
 0.4s 25.00nm 5.5mb X
 XAN 35.61 334 Pd 38 13.50 0.0
 BJI 38.71 347 eP 38 39.50 0.1
 BRS 38.83 141 iPd 38 39.70 -1.0
 BWA 41.91 153 eP 39 07.70 1.7
 MDJ 42.18 3 eP 39 08.70 0.8
 CAN 42.92 153 eP 39 14.80 0.6
 PKI 46.70 307 P 39 44.20 -0.8
 0.6s 5.00nm 4.7mb
 KKN 46.90 307 P 39 45.60 -0.8
 0.6s 6.00nm 4.8mb
 DMN 46.96 306 P 39 46.90 0.0
 0.7s 7.00nm 4.8mb
 GKN 47.50 307 P 39 50.60 -0.5
 0.5s 5.00nm 4.8mb
 HYB 49.50 291 eP 40 07.00 0.4
 GBA 49.88 286 P 40 09.00 -0.4
 0.3s 1.90nm 4.6mb
 S.D. = 0.8 on 20 of 21 obs.

% FEB 24, 1989 20h 46m 42.93 ± 0.73s
 40.813 N ± 6.5km 27.971 E ± 7.3km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

EDC 0.47 190 iPg 46 52.00 -0.5
 eSg 46 59.00
 CTT 0.48 46 ePg 46 52.20 -0.5
 ISK 0.86 73 ePg 46 59.70 0.2
 DMK 1.02 351 ePg 47 02.20 0.0
 eSg 47 15.90
 HRT 1.29 89 ePn 47 07.30 0.5
 EZN 1.60 232 ePn 47 11.70 0.4
 S.D. = 0.6 on 6 of 6 obs.

FEB 24, 1989 21h 10m 12.89 ± 0.73s
 42.924 N ± 5.0km 12.853 E ± 8.2km
 DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)

ASS 0.20 316 P 10 17.70 0.3
 eSg 10 22.00
 CIO 0.35 38 iPg 10 20.44 0.4
 iSg 10 26.85
 ALP 0.55 105 iPg 10 22.83 -1.4
 iSg 10 31.28
 MNS 0.55 193 P 10 22.60 -1.6
 eSg 10 30.70
 SSO 0.56 48 e(Pg) 10 24.69 0.5
 eSg 10 35.74
 ARV 0.58 6 P 10 24.90 0.3
 eSg 10 35.20
 AOI 0.83 41 e(Pg) 10 27.75 -1.2
 iSg 10 42.99
 AZI 1.03 155 P 10 34.00 1.7
 eSg 10 50.70
 RDP 1.17 185 P 10 34.40 -0.4
 eSg 10 49.90
 SDI 1.41 149 P 10 40.00 1.3
 eSg 11 00.70
 S.D. = 1.3 on 10 of 10 obs.

? FEB 24, 1989 21h 16m 22.48 ± 3.45s
 37.753 N ± 9.8km 29.051 E ± 33.3km

DEPTH = 10.0km (geophysicist)
 TURKEY (366)

KHL 0.68 33 iPg 16 35.20 -0.8
 iSg 16 46.20
 ELL 1.21 145 ePn 16 45.00 -0.2
 BCK 1.26 103 ePn 16 46.00 0.1
 ALT 1.54 32 ePn 16 51.00 0.8
 S.D. = 1.2 on 4 of 4 obs.

% FEB 24, 1989 22h 06m 54.47 ± 1.04s
 37.730 N ± 8.9km 29.206 E ± 10.1km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

KHL 0.64 23 iPg 07 06.20 -1.2
 iSg 07 17.20
 ELL 1.13 150 iPn 07 15.50 -0.2
 BCK 1.13 103 iPn 07 15.80 0.1
 ALT 1.50 28 ePn 07 22.80 1.3
 IZM 1.67 294 ePn 07 24.00 0.0
 S.D. = 1.2 on 5 of 5 obs.

* FEB 24, 1989 22h 26m 03.63 ± 1.64s
 29.499 S ± 10.4km 179.146 W ± 7.5km
 DEPTH = 343.3 ± 16.3 km
 4.8mb (8 obs.)

KERMADEC ISLANDS REGION (177)

KRP 9.50 206 P 28 16.00 -0.3
 DZM 14.93 296 iPc 29 20.20 -0.2
 BRS 24.76 268 iPc 30 58.60 1.7
 e 31 20.80
 i 31 41.00
 CAN 27.44 249 eP 31 21.80 0.8
 BWA 27.88 251 eP 31 25.60 0.7
 e 32 08.90
 RMQ 28.45 268 iPc 31 38.70 8.7X
 e 32 20.00
 TVO 29.68 74 eP 31 37.00 -3.8X
 0.9s 35.00nm 4.7mb
 CTA 32.68 279 iPc 32 07.10 0.4
 0.8s 18.66nm 4.5mb
 i 32 48.50
 STK 33.72 256 eP 32 16.00 0.6
 WB5 43.07 272 eP 33 31.20 -1.4
 eS 38 38.00
 FORR 45.27 255 eP 33 48.50 -1.3
 0.4s 11.00nm 4.5mb
 MTN 48.86 279 eP 34 16.00 -1.6
 NANU 58.45 260 iPd 35 25.30 -1.4
 SPA 60.67 180 iPd 35 42.00 0.6
 1.0s 34.50nm 4.8mb
 i 36 21.90
 CHJJ 76.16 326 iPd 37 15.10 -0.8
 IIDJ 76.24 325 P 37 15.50 -0.9
 NIJJ 77.11 327 P 37 20.30 -0.7
 MTMJ 77.17 326 iPd 37 20.90 -0.6
 PSI 84.30 276 ePc 37 58.50 -0.5
 e 40 30.00
 BCH 85.06 45 P 38 03.00 0.5
 ARN 85.63 42 P 38 05.30 0.2
 PLM 85.91 48 eP 38 07.00 0.2
 SBB 86.15 46 eP 38 07.00 -0.7
 ISA 86.37 45 eP 38 09.00 0.3
 CMB 86.77 43 P 38 10.70 0.1
 0.8s 10.67nm 4.8mb
 TPC 86.91 48 eP 38 12.00 0.6
 WHN 87.01 308 eP 38 10.50 -1.3
 CLC 87.01 46 eP 38 11.00 -0.8
 GLA 87.06 49 eP 38 13.00 0.9
 GSC 87.18 46 eP 38 13.00 0.3
 LBFM 88.13 39 P 38 17.60 0.4
 TIA 88.63 313 Pd 38 20.20 0.8
 TNP 88.69 44 P 38 20.00 0.1
 0.8s 8.82nm 4.7mb
 KVN 88.78 43 P 38 20.00 -0.3
 CN2 88.83 323 Pd 38 20.30 0.2
 KDC 89.76 14 P 38 24.50 0.4
 1.0s 30.00nm 5.2mb
 GYA 90.24 300 P 38 27.80 0.6
 BJI 91.59 316 eP 38 33.00 0.1
 CHG 92.34 290 eP 38 38.80 2.0
 TIY 92.53 312 eP 38 38.10 0.7
 XAN 92.78 308 P 38 40.60 2.0
 CD2 94.77 303 P 38 50.20 2.4
 FBA 97.21 13 P 38 57.70 -0.3

0.9s 7.29nm 4.9mb
 PKI 107.40 292 PKP 43 51.00 -0.8X
 VAO 110.43 133 ePKP 44 09.40 12.1X
 MBC 111.76 13 ePKP 43 57.00 -1.2
 BAO 114.93 127 ePKP 44 24.00 17.8X
 ALE 122.50 8 ePKP 44 17.00 -1.6
 0.7s 7.00nm
 BUL 123.86 212 iPKPd 44 22.90 -0.3
 FRB 125.11 31 ePKP 44 23.00 -1.1
 MAIO 130.94 294 ePKP 44 36.00 -0.3X
 KEV 137.03 347 ePKP 44 34.00 -12.6X
 SOD 139.07 345 ePKP 44 42.00 -8.4X
 KJF 141.34 342 iPKP 44 48.60 -6.0X
 0.7s 20.00nm
 i 44 56.40

TAB 141.57 295 e(PKP) 44 51.00 -5.1X
 SUF 142.94 341 iPKP 44 53.10 -4.3X
 0.3s 7.10nm
 NUR 145.13 340 iPKP 45 00.50 -0.7X
 0.9s 185.90nm
 UPP 147.58 344 iPKPd 45 06.90 1.8
 i 45 09.80
 NB2 147.71 351 PKP 45 04.40 -1.0X
 0.8s 45.10nm
 BNG 149.96 217 iPKPc 45 10.00 -0.3
 0.5s 38.00nm
 id 45 15.30
 ic 45 21.90
 HRI 150.07 286 ePKP 45 17.00 7.0X
 PRNI 150.46 280 iPKPd 45 17.00 6.4X
 MBH 150.48 279 iPKPd 45 17.00 6.4X
 IKL 151.71 292 iPKP 45 18.70 6.5X
 BBTK 151.94 300 ePKP 45 12.00 -0.6X
 MLR 154.63 316 ePKP 45 24.50 8.4X
 ed 03 06.50
 KRA 154.90 330 ePKP 45 14.60 -1.5
 KSP 155.73 336 ePKP 45 26.80 9.5X
 0.9s 39.00nm
 ic 45 46.00
 LIC 156.19 165 PKP 45 19.28 0.3X
 KIC 156.39 166 PKP 45 19.30 0.0
 0.9s 12.00nm
 CLL 156.39 341 ePKP 45 28.00 9.9X
 1.1s 43.00nm
 i 45 48.20
 BRG 156.49 339 e(PKP) 45 18.00 -0.3
 TIC 156.60 165 PKP 45 19.66 0.1
 KHC 158.12 337 PKP 45 20.50 0.1
 i 45 57.00

S.D. = 1.0 on 52 of 74 obs.

* FEB 24, 1989 22h 40m 13.71 ± 3.73s
 32.228 S ± 9.6km 68.085 W ± 31.3km
 DEPTH = 123.6 ± 25.9 km

MENDOZA PROVINCE, ARGENTINA (139)

RTCV 0.53 313 iPd 40 32.50 -0.1
 CFA 0.63 348 ePd 40 33.40 0.2
 ZON 0.85 323 iPc 40 34.00 -1.0
 eS 40 49.00
 MDZ 0.92 224 iP 40 36.20 0.5
 i(S) 40 50.00
 RTLL 0.95 340 iPc 40 35.90 -0.1
 S 40 50.90
 RTCB 0.96 320 iPc 40 36.00 0.0
 FCH 2.16 239 iPd 40 50.20 0.1
 iS 41 20.50
 JACH 2.17 257 iP 41 51.00 1.0
 iS 41 15.00
 RTRS 2.37 330 iPd 40 53.00 0.6
 S 41 21.00
 PEL 2.38 247 iP 40 52.40 -0.2
 iS 41 20.00
 PCH 2.47 235 iPd 40 54.00 0.1
 iS 41 25.60
 SAN 2.49 240 iPc 40 54.00 -0.1
 iS 41 24.20
 ROCH 2.58 253 ePd 40 56.00 0.5
 iS 41 25.00
 CHCH 2.75 231 iPc 40 57.70 0.2
 iS 41 32.50
 TACH 2.79 239 iPc 40 57.50 -0.5
 iS 41 30.50
 LCCH 3.19 246 eP 41 02.00 -1.2
 iS 41 38.00

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

| | | | | | | | | | | | | | | |
|--|--|--|--|--|---|--|--|--|--|---|--|--|--|--|
| FEB 24, 1989 23h 01m 21.20± 0.42s 39.042 N ± 3.9km 29.716 E ± 4.6km DEPTH = 10.0km (geophysicist) | | | | | 0.4s 37.00nm 5.7mb X BJI 38.09 347 eP 00 55.00 0.4 SNY 38.82 357 iPd 01 02.10 1.4 LZH 39.02 330 eP 01 02.50 -0.2 BWA 42.55 153 eP 01 33.10 1.5 CAN 43.56 153 eP 01 41.00 1.2 HYB 49.04 291 eP 02 23.00 -0.4 GBA 49.46 285 P 02 27.00 0.4 WMO 53.18 326 eP 02 53.50 -0.9 MAIO 69.70 308 iPd 04 45.20 -0.9 PRNI 89.71 300 ePd 06 35.00 1.1 MBH 89.85 300 iPc 06 35.50 1.1 SOD 91.07 338 eP 06 38.00 -1.3 KJF 91.16 334 iP 06 39.30 -0.5 SUF 92.10 333 iP 06 43.70 -0.4 0.4s 1.50nm 4.8mb NB2 99.34 333 P 07 16.00 -1.3 0.7s 1.70nm 4.7mb S.D. = 1.0 on 21 of 22 obs. | | | | | i 22 38.00 VAY 1.83 85 e(Pn) 22 27.00 2.8X S.D. = 0.1 on 5 of 8 obs. | | | | |
| TURKEY (366) ALT 0.31 87 iPg 01 26.30 -1.3 KHL 0.73 192 iPg 01 34.20 -1.5 DST 1.01 304 iPn 01 40.70 0.3 GPA 1.33 20 iPn 01 46.00 0.3 YLV 1.55 350 iPn 01 48.60 -0.3 KCT 1.60 319 iPn 01 50.60 1.0 BCK 1.72 156 iPn 01 51.70 0.3 GBZT 1.76 353 ePn 01 54.10 2.3 HRT 1.78 359 ePn 01 51.90 -0.3 BNT 1.91 314 iPn 01 54.60 0.5 EDC 1.93 313 ePn 01 54.00 -0.4 IZM 2.02 252 ePn 01 54.00 -1.8 ISK 2.08 346 ePn 01 56.10 -0.5 ELL 2.30 176 ePn 02 01.50 1.7 CTT 2.32 335 ePn 02 00.40 0.3 BBTK 2.49 70 eP 02 02.50 0.0 iS 02 42.00 PRK 2.69 275 eP 02 05.20 0.0 EZN 2.74 288 ePn 02 05.30 -0.7 KSL 2.92 182 eP 02 10.00 1.5 RDO 3.83 305 eP 02 22.00 0.5 JMB 4.17 326 eP 02 27.00 0.8 KDZ 4.19 310 iPd 02 27.00 0.4 PLG 5.02 287 eP 02 38.00 -0.3 MMB 5.24 301 iPd 02 33.00 -8.4X PVL 5.32 323 eP 02 42.00 -0.6 TLB 5.68 348 eP 02 46.50 -1.1 VRI 7.17 343 ePd 03 07.50 -1.1 S.D. = 1.0 on 26 of 27 obs. | | | | | & FEB 25, 1989 01h 00m 19.00s 33.930 N 118.630 W DEPTH = 11.0km SOUTHERN CALIFORNIA (43) <PAS-P>. ML 3.7 (PAS). Felt (V) at Santo Monica; (IV) at Hawthorne, Lowndale, Redondo Beach and Venice; (III) at Colobosos, Gardena, Harbor City, Inglewood, La Verne, Lomita, Monhottton Beach, Pacific Polisodes and Torrance. PAS 0.44 60 iPd 00 27.10 -0.9 CIS 0.56 160 iPd 00 29.40 -0.8 MWC 0.56 58 iPd 00 29.30 -1.1 SBB 1.01 41 iPd 00 37.00 -1.0 RVR 1.04 86 iP 00 37.50 -1.1 PEC 1.22 91 eP 00 39.90 -1.8 SYP 1.27 298 iPc 00 41.40 -1.1 PLM 1.58 111 eP 00 45.00 -2.2 BCH 1.73 317 eP 00 48.70 -0.6 ISA 1.73 4 iPc 00 49.10 -0.2 CLC 2.07 24 iPd 00 53.20 -0.9 PHAM 2.39 323 eP 00 57.50 -1.3 PRI 2.77 323 iPc 01 01.50 -2.7 FRI 3.18 344 ePd 01 08.80 -1.0 eS 01 46.00 LLA 3.28 325 ePd 01 10.20 -1.2 PRS 3.28 318 iPc 01 09.10 -2.3 SAO 3.65 322 eP 01 14.00 -2.5 TNP 4.30 15 eP 01 25.20 -0.8 CMB 4.34 341 ePc 01 25.00 -1.4 BKS 4.91 324 e(P) 01 32.20 -2.2 KVN 5.13 5 eP 01 37.70 0.0 21 obs. associated | | | | | FEB 25, 1989 01h 06m 43.14± 0.76s 37.719 N ± 7.6km 29.265 E ± 7.9km DEPTH = 10.0km (geophysicist) TURKEY (366) BCK 1.08 103 iPn 07 03.20 -0.4 ELL 1.10 152 iPn 07 04.00 0.2 ALT 1.49 26 iPn 07 09.30 -0.7 IZM 1.72 294 ePn 07 13.00 -0.3 DST 1.95 345 ePn 07 15.70 -0.9 KCT 2.62 345 ePn 07 23.00 -3.3X BNT 2.83 339 ePn 07 30.00 0.7 EDC 2.84 338 ePn 07 30.00 0.6 BBTK 3.46 51 eP 07 39.00 0.8 S.D. = 0.8 on 8 of 9 obs. | | | | |
| FEB 24, 1989 23h 15m 22.45± 0.43s 42.877 N ± 3.1km 12.876 E ± 4.9km DEPTH = 10.0km (geophysicist) CENTRAL ITALY (381) MD 2.8 (SSO). ASS 0.25 321 P 15 27.20 -0.6 eSg 15 30.70 CIO 0.37 32 iPgc 15 29.70 -0.4 iSg 15 36.15 MNS 0.51 196 Pc 15 32.10 -0.8 eSg 15 40.00 ALP 0.52 100 iPgc 15 32.30 -0.8 iSg 15 40.68 SSO 0.58 44 e(Pg) 15 34.92 0.8 eSg 15 46.08 ARV 0.62 4 P 15 34.30 -0.7 eSg 15 44.80 AQU 0.65 143 P 15 35.90 0.4 AOI 0.86 38 e(Pg) 15 39.37 0.4 i(Sg) 15 55.50 AZI 0.98 155 P 15 41.50 0.5 eSg 15 56.00 CRE 1.01 318 P 15 42.60 1.0 eSg 15 57.20 RMP 1.07 187 P 15 42.50 -0.2 eSg 15 57.80 RDP 1.12 186 P 15 44.00 0.4 eSg 16 00.30 SDI 1.36 149 P 15 47.50 0.0 TRI 2.90 12 eP 16 28.10 18.6X i 17 00.10 VOY 3.24 13 eP 16 29.00 14.6X e(Sn) 16 50.00 LJU 3.38 20 eP 16 19.00 2.7X e(Sn) 16 59.20 S.D. = 0.7 on 13 of 16 obs. | | | | | FEB 25, 1989 01h 06m 43.14± 0.76s 37.719 N ± 7.6km 29.265 E ± 7.9km DEPTH = 10.0km (geophysicist) TURKEY (366) BCK 1.08 103 iPn 07 03.20 -0.4 ELL 1.10 152 iPn 07 04.00 0.2 ALT 1.49 26 iPn 07 09.30 -0.7 IZM 1.72 294 ePn 07 13.00 -0.3 DST 1.95 345 ePn 07 15.70 -0.9 KCT 2.62 345 ePn 07 23.00 -3.3X BNT 2.83 339 ePn 07 30.00 0.7 EDC 2.84 338 ePn 07 30.00 0.6 BBTK 3.46 51 eP 07 39.00 0.8 S.D. = 0.8 on 8 of 9 obs. | | | | | FEB 25, 1989 01h 46m 27.98± 0.79s 48.763 N ± 20.4km 154.917 E ± 13.8km DEPTH = 33.0km (normol) 4.8mb (9 obs.) KURIL ISLANDS (221) FBA 33.83 40 eP 53 11.50 2.7 INK 39.30 34 eP 54 07.00 12.1X MBC 42.29 21 eP 54 19.00 -0.4 YKA 48.59 38 P 55 10.30 0.6 CHTO 53.77 257 eP 55 50.50 1.2 1.1s 17.08nm 5.0mb KKN 56.52 275 P 56 11.50 1.9 DMN 56.75 275 P 56 12.30 1.0 0.6s 16.00nm 5.2mb | | | | |
| FEB 24, 1989 23h 53m 37.15± 0.47s 2.913 N ± 8.1km 126.349 E ± 15.8km DEPTH = 33.0km (normol) 4.7mb (3 obs.) MOLUCCA PASSAGE (266) MTN 16.36 163 eP 57 25.00 -1.1 KNA 18.70 173 eP 57 55.00 -0.2 WB5 23.98 161 eP 58 49.20 -0.6 NANU 27.44 202 eP 59 23.00 0.9 WARB 28.93 179 eP 59 26.50 -9.0X CHTO 31.13 302 eP 59 56.00 0.8 0.8s 5.67nm 4.4mb FORR 33.62 177 iPd 00 15.70 -1.0 | | | | | FEB 25, 1989 01h 21m 52.51± 0.76s 41.198 N ± 5.9km 20.150 E ± 6.3km DEPTH = 10.0km (geophysicist) ALBANIA (391) ML 2.4 (SKO). TIR 0.26 305 iPgc 21 58.10 0.1 OHR 0.50 100 iPg 22 02.60 0.0 iSg 22 09.00 BERA 0.52 197 ePg 22 03.00 0.0 PHP 0.54 24 ePg 22 03.40 0.1 LACI 0.55 323 ePg 22 03.50 -0.1 LSK 1.10 162 ePn 22 19.90 6.7X SKO 1.24 51 ePn 22 21.00 5.5X | | | | | FEB 25, 1989 01h 46m 27.98± 0.79s 48.763 N ± 20.4km 154.917 E ± 13.8km DEPTH = 33.0km (normol) 4.8mb (9 obs.) KURIL ISLANDS (221) FBA 33.83 40 eP 53 11.50 2.7 INK 39.30 34 eP 54 07.00 12.1X MBC 42.29 21 eP 54 19.00 -0.4 YKA 48.59 38 P 55 10.30 0.6 CHTO 53.77 257 eP 55 50.50 1.2 1.1s 17.08nm 5.0mb KKN 56.52 275 P 56 11.50 1.9 DMN 56.75 275 P 56 12.30 1.0 0.6s 16.00nm 5.2mb | | | | |

25d 01h

| | | | | |
|-----------------------------|-------|---------|----------|------|
| GKN | 56.80 | 276 P | 56 11.00 | -0.5 |
| | 0.6s | 11.00nm | 5.1mb | |
| LRM | 59.02 | 55 eP | 56 27.40 | 0.4 |
| KVN | 60.16 | 64 eP | 56 34.00 | -0.8 |
| BW06 | 62.58 | 56 eP | 56 51.00 | -0.2 |
| | 0.9s | 3.51nm | 4.5mb | |
| FRB | 62.75 | 20 eP | 56 50.00 | -1.6 |
| NB2 | 66.71 | 342 P | 57 15.60 | -1.8 |
| | 0.8s | 2.00nm | 4.3mb | |
| HYB | 68.16 | 272 eP | 57 27.00 | -0.1 |
| WB5 | 70.75 | 200 eP | 57 42.10 | -0.6 |
| GBA | 71.66 | 270 Pd | 57 46.50 | -1.9 |
| | 0.7s | 2.80nm | 4.4mb | |
| CDF | 79.24 | 339 eP | 58 40.60 | 9.5X |
| AVF | 81.67 | 341 eP | 58 43.90 | 0.0 |
| | 0.9s | 8.10nm | 4.7mb | |
| LPG | 82.09 | 338 eP | 58 47.20 | 0.7 |
| | 0.7s | 5.90nm | 4.7mb | |
| LSF | 82.57 | 342 eP | 58 48.00 | -0.6 |
| | 1.0s | 14.80nm | 5.0mb | |
| S.D. = 1.3 on 18 of 20 obs. | | | | |

* FEB 25, 1989 02h 06m 00.78 ± 0.76s
 47.688 N ± 15.3km 154.158 E ± 9.8km
 DEPTH = 33.0km (normol)
 4.8mb (19 obs.)

KURIL ISLANDS (221)

| | | | | |
|-----|-------|---------|----------|-------|
| CN2 | 20.35 | 270 eP | 10 35.00 | -1.9 |
| FBA | 34.98 | 39 eP | 12 50.50 | -1.0 |
| | 0.8s | 5.17nm | 4.5mb | |
| XAN | 36.31 | 265 P | 13 03.40 | 0.3 |
| INK | 40.48 | 33 eP | 13 38.00 | 0.6 |
| CD2 | 41.67 | 265 P | 13 48.40 | 0.7 |
| GYA | 42.61 | 257 P | 13 55.40 | -0.2 |
| MBC | 43.47 | 20 eP | 14 02.00 | 0.2 |
| ALE | 48.74 | 6 eP | 14 43.00 | -0.5 |
| | 0.7s | 10.00nm | 5.0mb | |
| YKA | 49.75 | 37 P | 14 52.00 | 0.6 |
| MNI | 52.60 | 218 ePd | 15 25.60 | 12.0X |
| CHG | 53.03 | 257 iPd | 15 16.90 | 0.1 |
| | 0.9s | 10.50nm | 4.8mb | |
| PNT | 54.09 | 54 eP | 15 23.00 | -1.2 |
| | 0.5s | 3.00nm | 4.6mb | |
| KKN | 56.11 | 275 P | 15 39.20 | -0.2 |
| PKI | 56.16 | 275 P | 15 39.50 | -0.5 |
| | 0.5s | 21.00nm | 5.4mb | |
| DMN | 56.34 | 275 P | 15 41.00 | -0.2 |
| GKN | 56.40 | 276 P | 15 41.30 | -0.2 |
| SOD | 58.63 | 339 eP | 15 55.00 | -1.5 |
| LRM | 60.06 | 54 eP | 16 06.30 | -0.7 |
| KJF | 60.84 | 336 eP | 16 16.00 | 4.3X |
| SUF | 62.45 | 336 eP | 16 21.00 | -1.5 |
| | 0.4s | 2.10nm | 4.6mb | |
| FRB | 63.93 | 20 eP | 16 31.00 | -1.2 |
| NUR | 64.66 | 335 iP | 16 35.30 | -1.7 |
| | Z 16s | 0.20um | 4.4mszX | |
| NB2 | 67.57 | 342 P | 16 55.00 | -0.6 |
| | 0.5s | 1.30nm | 4.3mb | |
| WB5 | 69.57 | 200 eP | 17 06.20 | -2.1X |
| KSP | 75.38 | 334 eP | 17 42.00 | -0.4 |
| CLL | 75.90 | 336 iPc | 17 44.80 | -0.5 |
| | 0.9s | 17.00nm | 5.0mb | |
| PRU | 76.65 | 335 P | 17 49.80 | 0.2 |
| MLR | 76.70 | 325 ePc | 17 50.50 | 0.4 |
| KHC | 77.70 | 335 iPd | 17 56.40 | 1.0 |
| | 1.0s | 7.00nm | 4.6mb | |
| GRF | 77.85 | 336 eP | 17 57.00 | 0.8 |
| | 0.7s | 14.00nm | 5.1mb | |
| KBA | 79.62 | 334 iPd | 18 06.70 | 0.6 |
| | 0.8s | 14.30nm | 5.0mb | |
| CDF | 80.05 | 338 eP | 18 08.40 | 0.1 |
| | 0.8s | 6.40nm | 4.7mb | |
| HAU | 80.66 | 339 eP | 18 11.60 | 0.1 |
| BSF | 80.71 | 338 eP | 18 11.60 | -0.3 |
| FLN | 81.45 | 343 eP | 18 15.50 | 0.0 |
| LOR | 81.94 | 340 eP | 18 18.40 | 0.2 |
| | 0.7s | 5.50nm | 4.7mb | |
| SSF | 82.22 | 340 eP | 18 19.90 | 0.3 |
| AVF | 82.51 | 340 eP | 18 21.40 | 0.3 |
| | 0.7s | 4.80nm | 4.7mb | |
| SMF | 82.53 | 340 eP | 18 21.60 | 0.3 |
| | 0.9s | 17.00nm | 5.1mb | |
| LPG | 82.90 | 338 eP | 18 24.50 | 1.0 |
| | 0.9s | 13.10nm | 5.0mb | |
| MAF | 83.23 | 341 eP | 18 25.50 | 0.7 |

| | | | | |
|-----------------------------|-------|--------|----------|-----|
| TCF | 83.24 | 341 eP | 18 25.50 | 0.6 |
| | 0.8s | 5.90nm | 4.8mb | |
| LSF | 83.43 | 341 eP | 18 26.40 | 0.5 |
| SBF | 84.23 | 336 eP | 18 30.80 | 0.7 |
| CAF | 84.57 | 340 eP | 18 32.70 | 1.0 |
| LFF | 84.85 | 341 eP | 18 33.60 | 0.6 |
| LRG | 84.90 | 337 eP | 18 33.80 | 0.5 |
| | 0.5s | 7.80nm | 5.2mb | |
| LMR | 84.97 | 337 eP | 18 34.10 | 0.5 |
| LPO | 84.99 | 341 eP | 18 34.90 | 1.1 |
| S.D. = 0.8 on 46 of 49 obs. | | | | |

* FEB 25, 1989 02h 32m 28.82 ± 1.33s
 3.550 S ± 26.9km 130.007 E ± 43.4km
 DEPTH = 33.0km (normol)
 4.7mb (2 obs.)

CERAM (272)

| | | | | |
|---------------------------|-------|--------|----------|------|
| MTN | 9.30 | 173 eP | 34 45.00 | 1.3 |
| | | eS | 36 30.00 | |
| WB5 | 16.78 | 166 eP | 36 21.10 | -1.9 |
| | | eS | 39 18.80 | |
| QIS | 19.32 | 152 eP | 36 53.00 | -1.3 |
| | | eS | 40 19.00 | |
| BWA | 35.17 | 153 eP | 39 23.50 | 1.7 |
| CAN | 36.18 | 153 eP | 39 31.00 | 0.6 |
| PKI | 52.94 | 309 P | 41 45.00 | 0.1 |
| | 0.6s | 5.00nm | 4.7mb | |
| KKN | 53.15 | 309 P | 41 45.90 | -0.4 |
| GKN | 53.75 | 309 P | 41 50.70 | 0.1 |
| | 0.5s | 5.00nm | 4.8mb | |
| S.D. = 1.4 on 8 of 8 obs. | | | | |

* FEB 25, 1989 02h 55m 16.94 ± 1.58s
 43.613 N ± 9.8km 0.561 W ± 12.5km
 DEPTH = 10.0km (geophysical)

PYRENEES (378)

ML 3.6 (LDG). Felt (V) in the

Lacq oilfield, France.

| | | | | |
|-----|------|--------|----------|------|
| EPF | 0.88 | 131 Pg | 55 33.80 | -0.1 |
| | | Sg | 55 45.60 | |
| LFF | 1.62 | 35 Pn | 55 47.50 | 1.9 |
| | | Pg | 55 51.30 | |
| | | Sg | 56 14.60 | |
| LPO | 1.65 | 49 Pn | 55 47.20 | 1.1 |
| | | Pg | 55 51.20 | |
| | | Sg | 56 13.80 | |
| RJF | 2.25 | 41 Pn | 55 55.60 | 0.8 |
| | | Pg | 56 02.40 | |
| | | Sn | 56 23.10 | |
| | | Sg | 56 33.70 | |
| CAF | 2.30 | 54 Pn | 55 56.40 | 0.9 |
| | | Pg | 56 03.60 | |
| | | Sg | 56 34.40 | |
| MFF | 3.00 | 5 Pn | 56 07.30 | 1.9 |
| | | Pg | 56 17.00 | |
| | | Sg | 56 57.40 | |
| LSF | 3.03 | 29 Pn | 56 05.90 | 0.2 |
| | | Sn | 56 41.80 | |
| | | Sg | 56 57.80 | |
| TCF | 3.32 | 35 Pn | 56 09.60 | -0.4 |
| | | Sg | 57 07.00 | |
| MAF | 3.43 | 39 Pn | 56 10.80 | -0.7 |
| | | Sg | 57 10.00 | |
| BGF | 3.81 | 38 Pn | 56 16.40 | -0.5 |
| | | Pg | 56 31.60 | |
| | | Sn | 57 00.40 | |
| | | Sg | 57 21.20 | |
| AVF | 4.21 | 40 Pn | 56 22.60 | 0.0 |
| | | Pg | 56 38.70 | |
| | | Sg | 57 35.40 | |
| HYF | 4.29 | 31 Pn | 56 24.40 | 0.6 |
| SMF | 4.35 | 44 Pn | 56 24.60 | 0.1 |
| | | Pg | 56 41.30 | |
| | | Sg | 57 39.40 | |
| LPF | 4.43 | 356 Pn | 56 25.50 | -0.2 |
| | | Sg | 57 43.20 | |
| SSF | 4.48 | 38 Pn | 56 25.40 | -1.0 |
| | | Pg | 56 43.80 | |
| | | Sg | 57 43.60 | |
| LBF | 4.65 | 42 Pn | 56 27.80 | -1.1 |
| | | Pg | 56 48.00 | |
| | | Sg | 57 47.60 | |
| GRR | 4.78 | 358 Pn | 56 30.60 | -0.1 |
| LOR | 4.80 | 39 Pn | 56 29.30 | -1.7 |

| | | | | |
|-----------------------------|------|------|----------|------|
| | | Pg | 56 49.90 | |
| | | Sg | 57 53.40 | |
| LDF | 4.99 | 3 Pn | 56 33.50 | -0.1 |
| | | Sg | 58 00.40 | |
| FLN | 5.15 | 1 Pn | 56 35.10 | -0.8 |
| | | Sg | 58 05.20 | |
| DOU | 7.38 | 27 P | 57 06.30 | -1.0 |
| S.D. = 1.0 on 21 of 21 obs. | | | | |

? FEB 25, 1989 03h 41m 41.95 ± 1.59s
 3.317 S ± 17.6km 130.723 E ± 29.1km
 DEPTH = 33.0km (normol)
 3.7mb (1 obs.)

CERAM (272)

| | | | | |
|---------------------------|-------|--------|----------|-------|
| MTN | 9.48 | 178 eP | 44 01.00 | 1.7 |
| | | eS | 45 46.00 | |
| KNA | 12.50 | 189 eP | 44 39.00 | -1.5 |
| WB5 | 16.84 | 168 eP | 45 36.90 | -0.1 |
| | | eS | 48 40.00 | |
| WRA | 16.90 | 168 Pd | 45 42.50 | 4.8X |
| | 0.4s | 2.80nm | 3.7mb | |
| QIS | 19.20 | 154 eP | 46 09.00 | 3.0X |
| CTA | 22.53 | 139 eP | 46 40.00 | -0.4 |
| WARB | 23.07 | 189 eP | 46 41.00 | -4.7X |
| GKN | 54.17 | 308 P | 51 07.00 | 0.2 |
| S.D. = 1.6 on 5 of 8 obs. | | | | |

FEB 25, 1989 04h 42m 18.21 ± 3.20s
 1.933 N ± 6.1km 127.990 E ± 11.6km
 DEPTH = 32.2 ± 24.4 km
 5.1mb (8 obs.)

HALMAHERA (267)

| | | | | |
|------|-------|----------|----------|--------|
| DAV | 5.66 | 335 eP | 43 43.90 | 1.6 |
| PCI | 8.63 | 251 ePc | 43 32.00 | -51.8X |
| | 1.0s | 11.50nm | | |
| TSM | 10.16 | 283 ePc | 44 48.80 | 3.8X |
| MTN | 15.01 | 168 eP | 45 49.00 | -0.8 |
| | | eS | 48 32.00 | |
| KHKI | 16.03 | 230 ePc | 46 11.00 | 8.0X |
| | | e | 48 10.00 | |
| BAG | 16.13 | 334 eP | 46 03.00 | -1.5 |
| KNA | 17.59 | 178 eP | 46 23.00 | 0.4 |
| PMG | 22.17 | 121 e(P) | 47 07.00 | -6.2X |
| WB5 | 22.56 | 164 eP | 47 16.80 | -0.3 |
| WRA | 22.62 | 164 Pc | 47 17.30 | -0.4 |
| | 0.6s | 9.40nm | 4.4mb | |
| QZH | 24.61 | 339 Pc | 47 36.00 | -1.0 |
| | 4.0s | 0.80nm | 2.6mbX | |
| QIS | 25.08 | 154 iPc | 47 41.60 | 0.0 |
| | | e | 47 44.00 | |
| PSI | 29.05 | 272 ePc | 48 19.60 | 1.6 |
| SSE | 29.71 | 348 eP | 48 23.00 | -0.7 |
| | 1.0s | 12.00nm | 4.6mb | |
| LOE | 30.03 | 302 eP | 48 26.40 | -0.4 |
| WHN | 31.25 | 337 P | 48 39.00 | 1.7 |
| GYA | 31.85 | 322 P | 48 43.80 | 1.0 |
| BDT | 32.30 | 300 eP | 48 44.70 | -1.9 |
| FORR | 32.60 | 180 eP | 48 48.20 | -0.8 |
| CHG | 33.03 | 302 iPd | 48 53.50 | 0.5 |
| | 1.1s | 33.23nm | 5.2mb | |
| KMI | 33.53 | 316 eP | 48 59.00 | 1.4 |
| STK | 36.02 | 160 eP | 49 18.00 | -0.5 |
| XAN | 36.58 | 333 P | 49 23.30 | 0.1 |
| CD2 | 36.83 | 324 eP | 49 24.80 | -0.6 |
| ADE | 38.06 | 166 e(P) | 49 35.00 | -0.6 |
| TIY | 38.37 | 340 Pc | 49 39.60 | 1.3 |
| | Z 25s | 0.60um | 4.3mszX | |
| | | eS | 55 34.50 | |
| BJI | 39.42 | 346 eP | 49 46.50 | -0.4 |
| SNY | 39.91 | 355 eP | 49 51.40 | 0.5 |
| LZH | 40.68 | 329 eP | 49 57.50 | 0.0 |
| | 1.5s | 88.00nm | 5.3mb | |
| BWA | 40.94 | 154 eP | 50 02.40 | 2.8 |
| HHC | 41.49 | 341 eP | 50 05.00 | 0.9 |
| CN2 | 41.75 | 357 eP | 50 05.00 | -1.0 |
| BTO | 41.79 | 339 eP | 50 07.00 | 0.5 |
| CAN | 41.95 | 154 eP | 50 11.00 | 3.1X |
| SHL | 41.95 | 307 iP | 50 07.50 | -0.7 |
| | | eS | 57 27.00 | |
| MDJ | 42.53 | 2 eP | 50 09.50 | -2.9 |
| LSA | 44.57 | 312 Pc | 50 32.50 | 2.8X |
| GTA | 45.27 | 329 eP | 50 34.00 | -0.8 |
| PKI | 48.03 | 306 P | 50 57.20 | 0.1 |
| | 0.7s | 19.00nm | 5.2mb | |
| KKN | 48.23 | 306 P | 50 57.80 | -0.6 |

25d 04h

DMN 48.29 306 P 50 58.60 -0.4
 GKN 48.83 306 P 51 02.40 -0.6
 KOD 50.85 282 eP 51 18.00 -0.8
 HYB 50.92 291 eP 51 19.00 0.1
 1.2s 57.10nm 5.4mb
 GBA 51.30 286 Pc 51 20.20 -1.6
 0.9s 19.00nm 5.1mb
 WMO 54.91 325 eP 51 47.60 -0.7
 KSH 60.17 315 eP 52 25.00 -0.5
 MAIO 71.60 308 iPd 53 41.00 2.2
 SOD 92.60 338 eP 55 28.00 0.5
 KJF 92.75 334 eP 55 36.00 7.8X
 MBC 93.42 13 eP 55 34.00 2.8X
 SUF 93.71 333 iP 55 33.40 0.7
 0.6s 2.50nm 4.8mb
 MLR 97.06 316 ePd 55 50.00 1.4
 S.D. = 1.2 on 45 of 53 obs.

? FEB 25, 1989 04h 50m 31.12±1.23s
 30.416 N ±22.7km 51.358 E ±14.3km
 DEPTH = 33.0km (normal)

IRAN (348)

BHD 6.58 297 ePd 52 07.50 -0.6
 e 54 23.00
 eS 54 47.00
 SLY 7.14 318 eP 52 39.00 23.2X
 eS 54 55.00
 MAIO 8.98 47 eP 52 41.00 -0.6
 BBTK 17.86 307 eP 54 43.50 4.8X
 KHC 34.08 314 eP 57 21.20 6.7X
 KIC 57.70 257 P 00 20.80 -0.4
 TIC 57.79 258 P 00 21.60 -0.2
 LIC 58.01 257 P 00 23.40 0.0
 FRB 74.95 336 eP 02 12.00 1.7
 S.D. = 1.1 on 6 of 9 obs.

FEB 25, 1989 05h 41m 42.96±4.16s
 45.232 N ±34.4km 14.809 E ±9.4km
 DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)

MD 2.7 (TRI), 2.8 (LJU).

VBY 0.42 49 iPg 41 51.00 -0.5
 iSg 41 57.40
 CEY 0.57 332 ePg 41 53.90 -0.7
 0.3s 130.00nm
 LJU 0.83 347 ePg 42 00.00 0.9
 0.5s 60.00nm
 eSg 42 11.00
 TRI 0.88 303 ePg 41 58.80 -1.0
 iSg 42 12.00
 ZAG 1.01 54 iP 42 06.00 3.9X
 iSg 42 20.00
 VOY 1.03 322 ePg 42 01.50 -0.9
 eSg 42 17.20
 PTJ 1.05 50 ePg 42 10.70 7.9X
 eSg 42 18.40
 RBL 1.49 325 P 42 11.00 1.2
 eSg 42 31.80
 FVI 1.96 315 P 42 17.50 0.9
 S.D. = 1.2 on 7 of 9 obs.

FEB 25, 1989 05h 41m 52.56±0.55s
 36.287 N ±9.3km 70.788 E ±7.4km
 DEPTH = 33.0km (normal)

HINDU KUSH REGION (718)

QUE 6.88 209 eP 43 33.50 -0.4
 eS 44 46.80
 MAIO 9.12 273 iPd 44 06.00 1.0
 0.6s 11.50nm 5.2mb
 eSn 45 40.00
 GKN 14.34 121 P 45 15.60 0.3
 0.4s 19.00nm 5.0mb
 DMN 14.91 121 P 45 23.40 0.5
 0.4s 23.00nm 4.9mb
 KKN 14.91 121 P 45 22.90 0.0
 0.4s 18.00nm 4.8mb
 PKI 15.14 121 P 45 26.00 0.0
 0.4s 20.00nm 4.7mb
 GBA 23.36 164 Pc 46 58.40 -0.6
 0.4s 2.10nm 4.0mb
 SUF 38.01 328 iP 49 09.70 0.8
 NB2 44.45 323 P 50 00.40 -1.5

0.6s 1.20nm 3.9mb
 MBC 67.56 3 eP 52 47.00 -0.2
 S.D. = 0.8 on 10 of 10 obs.

* FEB 25, 1989 05h 43m 58.68±0.92s
 37.134 N ±8.0km 27.856 E ±9.5km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

IZM 1.35 340 ePn 44 24.00 0.5
 KAP 1.67 199 ePn 44 27.60 -0.5
 eSn 44 49.00
 ELL 1.69 103 ePn 44 28.00 -0.5
 KSL 1.72 126 ePn 44 30.00 1.2
 KHL 1.78 48 ePn 44 29.00 -0.7
 BCK 2.20 81 ePn 44 36.00 0.1
 S.D. = 1.0 on 6 of 6 obs.

* FEB 25, 1989 06h 10m 49.86±2.82s
 48.014 N ±9.2km 8.157 E ±22.2km
 DEPTH = 10.0km (geophysicist)

GERMANY (543)

FEL 0.17 215 Pg 10 53.50 -0.3
 MOF 0.71 257 Pg 11 05.50 1.6
 Sg 11 16.00
 CDF 0.71 304 Pg 11 03.70 -0.3
 Sg 11 17.00
 BSF 0.94 259 Pg 11 07.40 -0.4
 Sg 11 21.90
 GWF 1.03 340 Pg 11 09.50 0.2
 Sg 11 25.00
 HAU 1.21 270 Pg 11 11.60 -0.9
 Sg 11 30.50
 S.D. = 1.1 on 6 of 6 obs.

FEB 25, 1989 06h 58m 04.23±1.28s
 36.098 N ±8.0km 70.614 E ±8.3km
 DEPTH = 110.4 ±14.7 km
 4.5mb (6 obs.)

HINDU KUSH REGION (718)

KSH 5.41 50 eP 59 25.00 1.0
 S 00 26.00
 QUE 6.65 209 iPd 59 42.00 1.0
 MAIO 8.99 275 iPc 00 12.20 -0.6
 0.5s 5.87nm 4.6mb
 eS 01 48.00
 GKN 14.36 120 P 01 19.10 -4.5X
 DMN 14.93 120 P 01 26.60 -4.4X
 KKN 14.94 120 P 01 26.40 -4.7X
 PKI 15.17 120 P 01 30.20 -3.8X
 WMO 15.18 54 iPd 01 31.50 -2.4
 S 04 15.00
 POO 17.73 170 eP 02 14.50 9.0X
 iS 05 16.50
 HYB 19.90 157 iPd 02 29.60 0.3
 0.7s 57.10nm 5.0mb
 SHL 21.02 114 iP 02 40.00 -0.8
 eS 06 25.50
 GBA 23.22 163 Pc 03 01.20 -1.0
 0.6s 14.30nm 4.5mb
 GTA 23.28 73 P 03 04.00 1.2
 KOD 26.49 165 eP 03 34.00 0.7
 CHTO 30.31 117 iP 04 07.30 0.1
 0.8s 2.01nm 3.9mb
 NUR 37.97 325 iP 05 15.00 2.6X
 SUF 38.10 328 eP 05 15.00 1.6
 SOD 39.97 335 iP 05 30.20 1.3
 KEV 41.06 339 eP 05 37.00 -0.8
 NB2 44.51 323 P 06 05.10 -1.0
 0.7s 2.30nm 4.1mb
 DAG 55.05 344 eP 07 25.00 -1.1
 BNG 57.22 249 ePc 07 41.00 -1.3
 0.8s 7.00nm 4.7mb
 MBC 67.75 3 eP 08 51.00 -0.3
 INK 74.35 9 eP 09 33.00 2.2
 WB5 82.02 122 eP 10 17.00 3.6X
 S.D. = 1.3 on 18 of 25 obs.

% FEB 25, 1989 07h 51m 08.75±0.80s
 45.465 N ±9.4km 26.662 E ±8.0km
 DEPTH = 33.0km (normal)

ROMANIA (358)

ISR 0.34 194 eP 51 16.50 -0.6
 VRI 0.41 6 iPc 51 21.50 3.5X

MLR 0.51 273 iPc 51 20.00 0.4
 CFR 1.09 104 iPc 51 28.00 0.3
 CLI 1.17 22 ePd 51 28.50 -0.3
 TLB 1.31 132 ePd 51 31.00 0.2
 S.D. = 0.6 on 5 of 6 obs.

* FEB 25, 1989 11h 12m 38.24±1.69s
 15.411 N ±7.7km 61.626 W ±19.6km
 DEPTH = 144.6 ±19.0 km

LEEWARD ISLANDS (92)

BBL 0.18 52 ePd 12 58.70 -0.4
 DPMT 0.28 123 iP 12 59.17 -0.1
 eS 13 24.49
 DTMT 0.32 124 iP 12 59.10 -0.4
 eS 13 24.27
 MGG 0.59 31 ePd 12 59.76 0.1
 PAG 0.62 355 ePd 13 00.73 0.8
 S 13 18.00
 FDF 0.82 146 iPd 13 01.61 0.3
 S 13 22.00
 SFG 0.93 26 eP 13 02.10 -0.1
 CRM 0.95 133 iPd 13 02.25 -0.1
 S 13 23.10
 SEG 0.99 7 ePc 13 02.59 -0.1
 S 13 20.50
 BIM 1.04 149 iPd 13 03.39 0.2
 S 13 25.80
 DEG 1.05 31 ePd 12 52.55 -10.7X
 MVM 1.11 140 iPd 13 03.70 -0.1
 MGH 1.42 337 eP 13 06.60 -0.3
 SLW 1.54 154 eP 13 07.96 -0.2
 eS 13 32.62
 SLB 1.67 160 eP 13 05.04 -4.7X
 eS 13 33.65
 SVV 2.12 169 eP 13 14.84 0.0
 eS 13 46.52
 SVB 2.16 170 eP 13 15.46 0.1
 eS 13 45.53
 S.D. = 0.3 on 15 of 17 obs.

FEB 25, 1989 11h 26m 35.47±0.12s
 29.915 S ±4.7km 177.885 W ±3.2km
 DEPTH = 30.5km (geophysicist)

6.1mb (41 obs.) 6.7Ms (25 obs.)

KERMADEC ISLANDS (178)

Ms 6.6 (BRK), 6.3 (PAS).

Mo=1.3*10**19 Nm (PPT). Felt (V)

on Roul Island. Depth from

broodbond displacement

seismograms.

FAULT PLANE SOLUTION: P-Waves

NP1:Strike=22 Dip=53 Slip=128

NP2: 150 51 51

Principal Axes:

T Plg=61 Azm=354

P 1 86

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: 8 Focal mech. M

Energy 1.2±0.4*10**14 Nm

MOMENT TENSOR SOLUTION

Dep 31 No. of sta: 13

Moment Tensor: Scale 10**19 Nm

Mrr=0.92 Mtt=0.77

Mff=-1.69 Mrt=0.90

Mrf=1.19 Mtf=0.36

Principal axes:

T Val=2.09 Plg=49 Azm=334

N 0.07 33 195

P -2.15 21 90

Best Double Couple:Mo=2.1*10**19

NP1:Strike=137 Dip=38 Slip=27

NP2: 26 74 125

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 165, 45C M.W.: 14S, 34C

Centroid Location:

Origin Time 11:26:42.1 0.2

Lat 30.13S 0.01 Lon 177.46W 0.01

Dep 46.7 0.6 Half-duration 9.0

Moment Tensor: Scale 10**19 Nm

25d 11h

| | | | | | | | | | | | | | | |
|-----------------------------------|--|--|--|--|-----------------------------------|--|--|--|--|---------------------------------|--|--|--|--|
| Mrr= 1.21 0.01 Mtt=-0.16 0.01 | | | | | i(SS) 38 36.00 | | | | | YONJ 79.33 321 eP 38 39.50 -0.3 | | | | |
| Mff=-1.05 0.01 Mrt= 0.09 0.02 | | | | | i 39 44.50 | | | | | ANP 79.85 307 iP+ 38 42.00 -0.9 | | | | |
| Mrf= 0.74 0.02 Mtf=-0.22 0.01 | | | | | e 40 28.00 | | | | | eS 48 58.00 | | | | |
| Principal Axes: | | | | | e(ScS) 43 46.00 | | | | | SHNJ 79.86 319 eP 38 41.60 -1.0 | | | | |
| T Val= 1.43 Plg=74 Azm=273 | | | | | PAA 34.35 308 eP 33 28.00 6.1X | | | | | AOMJ 80.09 329 eP 38 45.60 1.9 | | | | |
| N -0.11 3 11 | | | | | STK 34.69 256 eP 33 27.00 2.4X | | | | | KGM 81.30 277 eP 38 51.00 0.3 | | | | |
| P -1.32 16 102 | | | | | 0.7s 335.00nm 6.4mb | | | | | ADK 81.45 1 iPc 38 49.70 -0.8 | | | | |
| Best Double Couple: Mo=1.4+10**19 | | | | | ADE 36.76 251 iPc 33 44.10 1.9 | | | | | QZH 81.76 305 iPc 38 53.00 0.2 | | | | |
| NP1: Strike=196 Dip=29 Slip= 95 | | | | | 1.2s 687.50nm 6.4mb | | | | | 8.0s 7.00nm 3.7mb X | | | | |
| NP2: 10 61 87 | | | | | RAB 38.15 306 iP+ 33 53.20 -0.8 | | | | | E 20s 9.90um | | | | |
| RAO 0.66 357 iP 26 50.00 1.5 | | | | | PMG 38.49 295 eP+ 33 58.00 1.2 | | | | | PP 41 57.00 | | | | |
| KRP 9.68 213 P 28 56.00 0.3 | | | | | 1.4s 604.65nm 6.2mb | | | | | S 49 00.00 | | | | |
| VUN 12.31 343 eP 29 33.00 1.4 | | | | | QIS 39.38 274 iPc 34 05.20 1.0 | | | | | SS 54 18.00 | | | | |
| WEL 12.82 206 eP 29 30.00 -8.2X | | | | | e 34 08.00 9kmX | | | | | SMY 82.59 355 eP 38 53.50 -3.0X | | | | |
| S 31 51.00 | | | | | e 44 14.00 | | | | | HKC 83.41 300 iPc 39 02.00 0.6 | | | | |
| ScP 38 43.00 | | | | | LAT 40.31 298 eP 34 13.00 1.1 | | | | | S 49 20.00 | | | | |
| ScS 42 20.00 | | | | | MNDI 43.21 295 eP 34 33.50 -2.4 | | | | | SSE 83.86 311 iP+ 39 03.50 0.0 | | | | |
| SGE 12.85 342 ePc 29 42.00 3.1X | | | | | WB5 44.18 272 iPc 34 43.90 0.4 | | | | | 1.0s 86.00nm 5.9mb | | | | |
| DZM 16.10 295 iPc 30 30.90 9.6X | | | | | IScP 40 25.00 | | | | | Z 20s 15.80um 6.4MsZ | | | | |
| AFI 16.90 21 P 30 35.20 3.8X | | | | | eS 41 17.60 | | | | | N 22s 13.10um | | | | |
| PVC 17.48 311 iPc 30 46.40 7.8X | | | | | FORR 46.22 255 iPd 34 59.60 0.0 | | | | | E 22s 12.50um | | | | |
| RAR 18.48 66 P 30 48.00 -2.9X | | | | | 0.6s 551.00nm 6.7mb | | | | | PP 42 16.00 | | | | |
| S 33 54.00 | | | | | SBA 48.53 184 Pd+ 35 21.30 4.2X | | | | | SKS 49 24.00 | | | | |
| BRS 25.84 268 P 32 09.60 3.6X | | | | | WARB 48.70 260 eP 35 09.40 -9.8X | | | | | S 49 30.00 | | | | |
| e(pPP) 32 26.00 | | | | | MTN 50.01 278 iPd 35 29.20 -0.1 | | | | | sS 49 40.00 | | | | |
| e(PP) 33 10.00 | | | | | eS 36 50.00 | | | | | PS 51 12.00 | | | | |
| iPcP 33 49.50 | | | | | KNA 50.73 274 eP 35 35.00 0.2 | | | | | SS 54 46.00 | | | | |
| eS 36 00.00 | | | | | 0.6s 246.00nm 6.4mb | | | | | SYN 84.21 45 eP 39 06.00 0.6 | | | | |
| iScP 39 18.50 | | | | | COOL 52.00 253 eP 35 43.00 -1.3 | | | | | YSS 84.42 334 P 39 06.00 0.1 | | | | |
| iScS 43 08.40 | | | | | HON 54.41 23 P 36 00.00 -2.0 | | | | | GZH 84.49 300 eP 39 07.00 0.2 | | | | |
| COO 26.08 261 iPc 32 12.90 4.6X | | | | | Z 20s 22.87um 6.2MsZ | | | | | Z 22s 11.60um 6.2MsZ | | | | |
| e 32 21.00 29kmX | | | | | KLB 54.60 251 iPd 36 02.00 -1.4 | | | | | N 17s 3.90um | | | | |
| e 39 15.00 | | | | | OPA 54.75 23 P 36 02.00 -2.6X | | | | | E 18s 6.20um | | | | |
| TBI 26.19 82 iP 32 08.10 -1.1 | | | | | MEKA 55.47 257 iPd 36 09.00 -0.8 | | | | | PP 42 28.00 | | | | |
| 1.2s 295.00nm 5.8mb | | | | | 0.5s 86.00nm 6.0mb | | | | | SKS 49 26.00 | | | | |
| RIV 26.53 253 iPc 32 16.10 3.9X | | | | | BAL 55.74 252 eP 36 10.00 -1.7 | | | | | IPM 84.57 278 eP 39 09.10 1.6 | | | | |
| e 32 18.00 7kmX | | | | | MUN 55.76 250 eP 36 10.00 -1.8 | | | | | 1.0s 470.90nm 6.6mb | | | | |
| e 37 12.00 | | | | | GUA 56.14 315 eP 36 13.30 -1.4 | | | | | BCH 84.59 44 P 39 07.70 0.5 | | | | |
| e 39 16.00 | | | | | 0.8s 525.37nm 6.6mb | | | | | PRS 84.60 43 ePc 39 08.00 0.9 | | | | |
| CNB 28.03 250 eP 32 29.00 3.0X | | | | | Z 24s 92.40um 6.8MsZ X | | | | | GCC 84.71 42 ePc 39 08.40 0.8 | | | | |
| CAN 28.33 250 iPc 32 31.10 2.4X | | | | | i 36 16.50 10kmX | | | | | PCC 84.82 41 ePc 39 08.70 0.6 | | | | |
| AFR 28.44 71 iP 32 29.40 -0.3 | | | | | GUMO 56.21 315 eP 36 13.00 -2.2 | | | | | PHAM 84.84 43 P 39 08.50 0.2 | | | | |
| 1.3s 125.00nm 5.5mb | | | | | PJG 56.21 315 eP 36 13.80 -1.4 | | | | | SAO 84.85 42 eP 39 08.60 0.2 | | | | |
| PAE 28.54 71 iP 32 30.50 -0.1 | | | | | MBL 56.29 263 iPd 36 14.30 -1.5 | | | | | QIZ 84.88 295 P 39 06.00 -2.8X | | | | |
| 1.3s 315.00nm 5.9mb | | | | | 0.6s 178.00nm 6.3mb | | | | | E 20s 11.30um | | | | |
| PPT 28.59 71 iP 32 31.00 -0.1 | | | | | MRWA 56.76 253 eP 36 18.80 -0.2 | | | | | sP 39 23.00 | | | | |
| 1.3s 360.00nm 5.9mb | | | | | NANU 59.46 260 iPd 36 37.20 -0.8 | | | | | PP 42 28.00 | | | | |
| PPN 28.73 71 iP 32 32.20 -0.1 | | | | | 0.4s 67.00nm 6.1mb | | | | | S 49 35.00 | | | | |
| 1.3s 180.00nm 5.6mb | | | | | SPA 60.25 180 iPc 36 39.90 -3.2 | | | | | PRI 84.89 43 ePc 39 09.70 1.0 | | | | |
| TVO 28.75 72 iP 32 32.40 -0.2 | | | | | 1.0s 110.50nm 5.9mb | | | | | LLA 85.04 43 eP 39 10.00 0.6 | | | | |
| 1.3s 205.00nm 5.7mb | | | | | MNI 62.82 289 ePd 36 59.60 -1.2 | | | | | BAR 85.07 48 eP 39 09.00 -0.6 | | | | |
| BWA 28.80 252 iPc 32 33.00 0.1 | | | | | 0.7s 725.20nm 6.9mb | | | | | PAS 85.07 46 iP+ 39 09.50 0.0 | | | | |
| HNR 29.06 310 eP+ 32 34.00 -1.3 | | | | | MKS 63.76 280 iPc 37 07.10 0.0 | | | | | eS 39 28.00 | | | | |
| eS 37 10.00 | | | | | DAV 65.53 295 ePc+ 37 16.00 -2.5X | | | | | ePP 42 28.00 | | | | |
| VSG 29.35 310 eP 32 43.00 5.0X | | | | | eS 45 57.00 | | | | | iSKS 49 36.00 | | | | |
| RMO 29.54 268 iPc 32 49.70 10.1X | | | | | KHKI 65.53 274 eP 37 16.80 -1.8 | | | | | ePS 51 12.00 | | | | |
| e 32 52.00 8kmX | | | | | e 43 43.00 | | | | | eSS 55 22.00 | | | | |
| e 35 19.00 | | | | | PCI 65.69 284 iPd 37 21.50 1.9 | | | | | eLG 02 04.00 | | | | |
| TAU 30.63 235 Pc 32 50.30 1.2 | | | | | iS 37 55.20 | | | | | eLR 04 48.00 | | | | |
| ePcP 33 47.40 | | | | | BKB2 68.00 282 ePc 37 34.50 0.3 | | | | | ePP 42 35.00 | | | | |
| eScP 39 27.00 | | | | | 0.9s 862.00nm 6.8mb | | | | | eS 49 38.00 | | | | |
| CMS 31.15 258 iPc 32 56.00 2.2 | | | | | AIA 72.32 156 eP 38 00.00 0.3 | | | | | eSP 50 42.00 | | | | |
| e 33 04.00 28kmX | | | | | MAW 72.80 200 eP 38 03.00 0.5 | | | | | iSS 56 01.00 | | | | |
| e 39 12.00 | | | | | 1.0s 250.00nm 6.2mb | | | | | e 58 52.00 | | | | |
| TOO 31.25 246 iPd 32 57.20 2.5X | | | | | QCP 73.60 298 eP 38 17.00 9.1X | | | | | e 59 35.00 | | | | |
| e 34 38.00 | | | | | BAG 75.06 299 ePc+ 38 14.00 -2.6X | | | | | eLQ 01 20.00 | | | | |
| e 35 52.00 | | | | | TPI 75.17 275 ePd 38 16.00 -1.1 | | | | | e 02 13.00 | | | | |
| PMO 31.31 68 iP 32 55.30 0.0 | | | | | e 42 30.00 | | | | | eLR 04 58.00 | | | | |
| 1.3s 185.00nm 5.8mb | | | | | KLI 76.55 272 eP 38 23.00 -2.0 | | | | | BRK 85.15 41 eP 39 10.30 0.5 | | | | |
| VAH 31.40 69 iP 32 55.80 -0.3 | | | | | eS 41 20.00 | | | | | Z 20s 50.00um 6.9MsZ | | | | |
| 1.3s 240.00nm 5.9mb | | | | | KAKJ 76.67 326 eP 38 24.40 -0.7 | | | | | eS 49 40.00 | | | | |
| TPT 31.55 69 iP 32 57.50 0.1 | | | | | CHJJ 77.12 325 eP 38 27.00 -0.6 | | | | | e 51 00.00 | | | | |
| 1.3s 150.00nm 5.7mb | | | | | IIDJ 77.22 324 P 38 27.60 -0.6 | | | | | e 58 50.00 | | | | |
| RUV 31.63 69 iP 32 57.80 -0.3 | | | | | WKYJ 77.45 322 eP 38 29.40 -0.2 | | | | | eLR 04 50.00 | | | | |
| 1.3s 200.00nm 5.8mb | | | | | KAGJ 77.86 317 P 38 31.40 -0.4 | | | | | BKS 85.16 41 iPc 39 10.00 0.1 | | | | |
| CTA 33.82 278 iPc+ 33 19.00 1.8 | | | | | MAT 77.90 325 P 38 31.00 -0.9 | | | | | 1.0s 274.00nm 6.4mb | | | | |
| 0.8s 349.63nm 6.3mb | | | | | NIIJ 78.06 326 P 38 33.30 0.6 | | | | | Z 20s 27.00um 6.6MsZ | | | | |
| iP 33 28.50 32kmX | | | | | TKSJ 78.11 321 eP 38 33.90 0.8 | | | | | N 20s 27.00um | | | | |
| iS 33 35.00 | | | | | MTMJ 78.14 325 eP 38 32.70 -0.6 | | | | | E 20s 3.00um | | | | |
| e(PP) 34 12.00 | | | | | TSRJ 78.25 323 eP 38 38.30 4.5X | | | | | i 39 21.60 38kmX | | | | |
| i 34 41.00 | | | | | OFUJ 78.30 329 eP 38 34.90 0.9 | | | | | i 39 29.40 | | | | |
| eS 34 59.00 | | | | | YAMJ 78.32 327 P 38 35.10 1.0 | | | | | eS 49 35.20 | | | | |
| e 37 36.00 | | | | | KUMJ 78.87 318 eP 38 37.40 0.1 | | | | | ePS 50 16.40 | | | | |
| | | | | | TOTJ 79.11 322 eP 38 39.80 1.3 | | | | | iSPP 50 37.00 | | | | |
| | | | | | SHK 79.27 320 ePc 38 39.00 -0.5 | | | | | i 51 10.00 | | | | |
| | | | | | | | | | | e 54 42.00 | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|-------|-----|-------|----|-------|----------|--|--|------|-------|--------|----------|---------|-------|----------|--|--|-----|-------|-----------|---------|---------|----------|--------|--------|-------|-----|
| | | | eSS | 55 | 10.00 | | | | IIT | 90.70 | 69 | (P) | 39 | 38.50 | 1.3 | | | | eLR | 12 | 32.00 | | | | | | |
| | | | eSSS | 58 | 23.00 | | | | NST | 90.95 | 287 | iPc | 39 | 41.00 | 3.0X | | | LZH | 98.51 | 307 | eP | 40 | 14.00 | 1.6 | | | |
| | | | eLO | 01 | 09.00 | | | | OXX | 90.99 | 71 | iPc | 39 | 40.60 | 2.1 | | | | 9.0s | 1990.00nm | | | 6.6mb X | | | | |
| | | | eLR | 04 | 52.00 | | | | GYA | 91.40 | 300 | iPc | 39 | 40.00 | -0.1 | | | Z | 26s | 23.70um | | | 6.6MsZ X | | | | |
| MWC | 85.19 | 46 | eP | 39 | 10.00 | -0.4 | | | | Z | 26s | 8.00um | | | 6.0MsZ X | | | N | 17s | 3.10um | | | | | | | |
| PLM | 85.38 | 47 | eP | 39 | 11.00 | -0.3 | | | E | 21s | 9.40um | | | | | | | E | 20s | 11.30um | | | | | | | |
| PSI | 85.43 | 276 | iP | 39 | 11.00 | -0.8 | | | | | | sP | 39 | 54.00 | | | | | | pP | 40 | 25.50 | 37kmX | | | | |
| | 1.2s | | | | | 6.5mb | | | IISM | 91.43 | 69 | iP | 39 | 42.50 | 2.3 | | | | | SKS | 50 | 42.00 | | | | | |
| RVR | 85.47 | 47 | eP | 39 | 11.00 | -0.5 | | | LON | 91.55 | 35 | ePc | 39 | 39.17 | -1.1 | | | | | S | 51 | 08.00 | | | | | |
| PEC | 85.54 | 47 | P | 39 | 11.80 | -0.1 | | | | | | ePpD | 39 | 48.60 | 29kmX | | | | | PS | 53 | 00.00 | | | | | |
| SBB | 85.64 | 46 | eP | 39 | 12.00 | -0.5 | | | MSU | 91.58 | 46 | P | 39 | 41.40 | 0.6 | | | MEO | 98.57 | 55 | ePc | 40 | 11.40 | -1.1 | | | |
| ISA | 85.88 | 45 | eP | 39 | 13.00 | -0.6 | | | RMW | 92.04 | 34 | P | 39 | 42.00 | -0.5 | | | | 2.0s | 232.30nm | | | 6.4mb | | | | |
| NJ2 | 86.00 | 311 | iPc | 39 | 15.00 | 0.8 | | | PGC | 92.09 | 33 | eP | 39 | 42.00 | -0.5 | | | | | e | 41 | 30.00 | 331kmX | | | | |
| | 7.0s | | | | | 4.0mb X | | | BJI | 92.65 | 315 | iPc+ | 39 | 45.50 | 0.2 | | | | | eP | 40 | 18.00 | 1.8 | | | | |
| | N | 20s | | | | | | | | Z | 40s | 44.70um | | | 6.6MsZ X | | | | | ePd | 40 | 13.80 | -2.0 | | | | |
| | E | 20s | | | | | | | | N | 22s | 14.40um | | | | | | | | 0.9s | 48.00nm | | 6.0mb | | | | |
| | | | sP | 39 | 29.00 | | | | | E | 21s | 12.30um | | | | | | | | | 94 | eP | 40 | 25.00 | 6.1X | | |
| | | | S | 49 | 40.00 | | | | | | | eSKS | 50 | 13.00 | | | | | EDM | 99.90 | 33 | eP | 40 | 17.50 | -0.6 | | |
| FR1 | 86.03 | 43 | ePc | 39 | 14.40 | 0.2 | | | | | | eS | 50 | 36.00 | | | | | SIO | 100.67 | 55 | e(Pdiff | 40 | 21.70 | -0.4 | | |
| | | | ePp | 39 | 33.20 | 68kmX | | | | | | eS | 50 | 36.00 | | | | | VVO | 100.88 | 56 | ePdiff | 40 | 23.20 | 0.2 | | |
| | | | ePP | 42 | 48.00 | | | | BDT | 92.68 | 288 | eP | 39 | 44.10 | -1.8 | | | | TUL | 101.11 | 55 | ePdiff | 40 | 22.50 | -1.6 | | |
| | | | ePKKP | 57 | 14.10 | | | | | | | 9.00nm | | | 5.3mb | | | | | 1.0s | 7.30nm | | 5.2mb | | | | |
| | | | eP'P' | 05 | 21.70 | | | | ALO | 93.19 | 51 | ePc | 39 | 48.00 | -0.3 | | | | Z | 19s | 34.61um | | 6.9MsZ | | | | |
| SNG | 86.23 | 280 | eP | 39 | 14.00 | | | | | Z | 18s | 261.72nm | | | 6.5mb | | | | | | | | | | | | |
| | 1.5s | | | | | 6.8mb | | | | | | 11.00um | | | 6.4MsZ | | | | | e | 40 | 41.10 | | | | | |
| | | | e | 41 | 28.70 | 635kmX | | | | | | epP | 40 | 02.00 | 47kmX | | | | | LR | 13 | 30.00 | | | | | |
| | | | eS | 49 | 29.50 | | | | CHG | 93.51 | 290 | ePc | 39 | 50.50 | 0.7 | | | | LNO | 101.12 | 55 | e(Pdiff | 40 | 40.60 | 16.6X | | |
| FHC | 86.25 | 38 | eP | 39 | 16.10 | 0.8 | | | | | | 27.61nm | | | 5.7mb | | | | UPA | 101.63 | 86 | iPdiff | 40 | 26.00 | -0.8 | | |
| CMB | 86.33 | 42 | ePc | 39 | 14.74 | -1.1 | | | | | | eS | 43 | 40.00 | | | | Z | 20s | 17.38um | | | 6.6MsZ | | | | |
| | | | epPd | 39 | 23.84 | 29kmX | | | TIY | 93.62 | 312 | Pc | 39 | 50.80 | 0.8 | | | | RLO | 101.78 | 55 | e(Pdiff | 40 | 29.60 | 2.5X | | |
| | | | esPd | 39 | 32.95 | | | | | | | 3.00nm | | | 3.8mb X | | | | SHL | 102.48 | 292 | iPdiff | 40 | 32.00 | 1.4 | | |
| | | | ePP | 42 | 34.70 | | | | N | 21s | | 12.50um | | | | | | | GTA | 102.92 | 308 | Pdiff | 40 | 32.00 | -0.2 | | |
| | | | ePKKP | 57 | 11.90 | | | | | | | SKS | 50 | 21.00 | | | | | Z | 26s | 10.20um | | 6.2MsZ X | | | | |
| | | | eP'P' | 05 | 23.30 | | | | KMI | 93.69 | 297 | ePc | 39 | 51.76 | 1.0 | | | | E | 19s | 7.33um | | | | | | |
| TPC | 86.38 | 47 | eP | 39 | 16.00 | -0.1 | | | | N | 20s | 10.40um | | | | | | | | | PP | 44 | 46.00 | | | | |
| TACH | 86.41 | 127 | ePd | 39 | 16.70 | 0.3 | | | | E | 20s | 11.10um | | | | | | | | | SKS | 51 | 03.50 | | | | |
| GLA | 86.50 | 49 | P | 39 | 17.80 | 1.1 | | | | | | sP | 40 | 19.00 | | | | | | | SS | 59 | 26.00 | | | | |
| CLC | 86.52 | 45 | eP | 39 | 17.00 | 0.2 | | | | | | SKS | 50 | 17.00 | | | | | | | ePdiff | 40 | 32.00 | -0.9 | | | |
| MZX | 86.58 | 61 | iPc | 39 | 17.70 | 0.5 | | | | | | S | 50 | 47.00 | | | | | INX | 103.29 | 15 | ePdiff | 40 | 32.00 | | | |
| GSC | 86.68 | 46 | eP | 39 | 18.00 | 0.4 | | | SIT | 93.79 | 22 | eP | 39 | 51.40 | 1.2 | | | | BOG | 104.27 | 93 | ePdiff | 40 | 44.00 | 5.0X | | |
| SAN | 86.71 | 127 | iPc | 39 | 18.50 | 0.6 | | | XAN | 93.90 | 307 | P | 39 | 52.00 | 0.7 | | | | | | ePP | 45 | 04.00 | | | | |
| PCH | 86.72 | 127 | eP | 39 | 18.50 | 0.4 | | | | N | 23s | 17.10um | | | | | | | LSA | 104.91 | 296 | ePdiff | 40 | 45.00 | 3.3X | | |
| ORV | 86.74 | 40 | ePc | 39 | 17.60 | -0.1 | | | | | | SKS | 50 | 25.00 | | | | | | N | 21s | 5.68um | | | | | |
| PEL | 86.87 | 127 | iPc | 39 | 19.00 | 0.3 | | | PMR | 94.11 | 13 | eP | 39 | 51.00 | -0.6 | | | | E | 24s | 9.24um | | | | | | |
| WDC | 86.87 | 39 | iPc | 39 | 18.50 | 0.2 | | | | | | 1.0s | 75.00nm | | 6.1mb | | | | | | PP | 45 | 02.00 | | | | |
| FCH | 87.04 | 127 | eP | 39 | 21.00 | 1.1 | | | | Z | 20s | 16.00um | | | 6.5MsZ | | | | | | SKKS | 51 | 20.00 | | | | |
| JACH | 87.19 | 126 | eP | 39 | 20.50 | 0.1 | | | TTA | 94.16 | 10 | eP | 39 | 51.70 | -0.2 | | | | YKA | 104.96 | 25 | Pdiff | 40 | 46.60 | 6.1X | | |
| MIN | 87.22 | 40 | ePc | 39 | 19.50 | -0.7 | | | PNT | 94.38 | 34 | ePc | 39 | 53.00 | -0.1 | | | | FFC | 106.35 | 36 | ePdiff | 40 | 52.00 | 5.1X | | |
| WHN | 88.14 | 307 | iPc | 39 | 24.50 | 0.0 | | | | | | 0.9s | 55.00nm | | 6.0mb | | | | FFC | 106.35 | 36 | ePKP | 45 | 06.00 | 7.9X | | |
| | 7.0s | | | | | 4.0mb X | | | TOA | 95.19 | 14 | eP | 39 | 56.90 | 0.2 | | | | | 1.0s | 16.00nm | | | | | | |
| | Z | 24s | | | | 6.5MsZ X | | | ARE | 95.47 | 112 | eP | 40 | 00.00 | 0.6 | | | | KOD | 107.68 | 272 | ePdiff | 40 | 56.00 | 1.9 | | |
| | N | 19s | | | | | | | BW06 | 95.72 | 43 | P | 39 | 58.80 | -1.0 | | | | | | eSKS | 51 | 36.00 | | | | |
| | E | 20s | | | | | | | LRM | 95.87 | 40 | eP | 40 | 00.20 | -0.2 | | | | | | Pdiff | 41 | 01.80 | 3.9X | | | |
| | | | PP | 42 | 56.00 | | | | CD2 | 95.91 | 302 | eP | 40 | 01.80 | 1.1 | | | | | | 0.5s | 4.00nm | | 5.9mb | | | |
| TNP | 88.23 | 43 | P | 39 | 24.50 | -0.6 | | | | Z | 25s | 11.80um | | | 6.3MsZ X | | | | PKI | 108.57 | 292 | PKP | 44 | 45.00 | -18.6X | | |
| MDJ | 88.28 | 325 | eP | 39 | 25.00 | 0.1 | | | | E | 18s | 8.70um | | | | | | | | | 108.76 | 292 | Pdiff | 41 | 02.80 | 4.2X | |
| | Z | 30s | | | | 6.4MsZ X | | | | | | PP | 43 | 50.00 | | | | | | | 108.83 | 291 | Pdiff | 41 | 03.20 | 4.3X | |
| | N | 18s | | | | | | | HHC | 95.97 | 314 | Pc | 40 | 01.00 | 0.2 | | | | | | 109.15 | 42 | Pdiff | 41 | 10.00 | 10.5X | |
| | | | S | 50 | 00.00 | | | | | Z | 30s | 47.50um | | | 6.8MsZ X | | | | | Z | 20s | 25.99um | | 6.8MsZ | | | |
| ACX | 88.32 | 70 | iPc | 39 | 27.50 | 1.8 | | | | N | 23s | 10.00um | | | | | | | | | 109.26 | 275 | Pdiff | 41 | 06.00 | 5.3X | |
| KVN | 88.34 | 42 | P | 39 | 25.30 | -0.4 | | | | E | 22s | 20.60um | | | | | | | | | 0.8s | 2.70nm | | | | | |
| | | | pP | 39 | 39.30 | 47kmX | | | | | | pP | 40 | 12.00 | 35kmX | | | | | | 109.26 | 275 | PKPc | 45 | 03.30 | -1.5 | |
| DL2 | 88.66 | 317 | iPc | 39 | 27.00 | 0.1 | | | | | | SKS | 50 | 31.50 | | | | | | | 0.8s | 15.10nm | | | | | |
| | Z | 24s | | | | 6.3MsZ X | | | GOL | 96.57 | 48 | eP+ | 40 | 03.00 | -0.7 | | | | | | 109.37 | 292 | Pdiff | 41 | 07.50 | 6.3X | |
| | N | 18s | | | | | | | | | | 135.29nm | | | 6.1mb | | | | | | 110.00 | 279 | ePdiff | 41 | 06.00 | 2.0 | |
| | E | 18s | | | | | | | | Z | 20s | 14.47um | | | 6.5MsZ | | | | | | 110.00 | 279 | ePKP | 45 | 07.00 | 0.8 | |
| IIT | 89.42 | 68 | eP | 39 | 32.30 | 1.1 | | | | | | ipP | 40 | 20.00 | 59kmX | | | | | | 111.77 | 135 | ePdiff | 41 | 15.60 | 3.9X | |
| SNY | 89.48 | 320 | iPc | 39 | 31.00 | 0.3 | | | | | | ePP | 43 | 57.70 | | | | | | | | 111.92 | 13 | ePdiff | 41 | 12.00 | 0.8 |
| | 7.5s | | | | | 3.8mb X | | | | | | | | | | | | | | | 111.92 | 13 | ePKP | 45 | 07.00 | -1.1 | |
| | Z | 25s | | | | 6.5MsZ X | | | GLD | 96.69 | 48 | P | 40 | 03.00 | -1.2 | | | | | | 0.9s | 31.00nm | | | | | |
| | N | 21s | | | | | | | | Z | 20s | 28.00um | | | 6.7MsZ | | | | | | 113.00 | 308 | ePKP | 45 | 10.50 | -0.7 | |
| | | | sP | 39 | 46.00 | | | | | | | 41.10um | | | 6.8MsZ X | | | | | | 113.28 | 91 | iPdiff | 41 | 20.00 | 1.2 | |
| TIA | 89.71 | 313 | P | 39 | 32.50 | 0.5 | | | | Z | 25s | 22.80um | | | | | | | | | 114.52 | 278 | iPdiff | 41 | 25.00 | 0.9 | |
| | N | 27s | | | | 6.6MsZ X | | | | N | 25s | 34.60um | | | | | | | | | | | | | | | |
| | Z | 24s | | | | | | | | E | 25s | | | | | | | | | | | | | | | | |
| | E | 25s | | | | | | | | | | sP | 40 | 20.00 | | | | | | | | | | | | | |
| | | | S | 40 | 20.00 | | | | | | | SKS | 50 | 40.00 | | | | | | | | | | | | | |
| NNT | 89.72 | 285 | eP | 39 | 3 | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | |
|-----|--------|----------|---------|----------|------|-----|----------|-----------|----------|-------|-------|----------|----------|-------|
| VKA | 158.68 | 333 | ePKP | 46 30.00 | -0.8 | | i(SPP)04 | 22.00 | BRS | 25.87 | 268 | iPd | 08 46.20 | 3.1X |
| Z | 24s | 12.00um | | 6.7mszX | | | i | 08 22.00 | COO | 26.14 | 260 | iPd | 08 48.90 | 3.3X |
| VTS | 158.87 | 313 | iPKPd | 46 31.00 | -0.4 | | i(SS) | 11 28.00 | RIV | 26.61 | 253 | eP | 08 52.00 | 2.2 |
| KHC | 158.92 | 339 | PKPc | 46 30.50 | -0.6 | | i(SSP)12 | 24.00 | CNB | 28.13 | 250 | eP | 09 05.00 | 1.4 |
| | | | i | 46 32.90 | | VVI | i(SSS)17 | 56.00 | CAN | 28.43 | 250 | iPd | 09 07.50 | 1.2 |
| | | | i | 47 10.60 | | CTI | | | BWA | 28.89 | 252 | iPd | 09 09.30 | -1.2 |
| ENN | 158.97 | 353 | ePKP | 46 30.00 | -1.0 | LOR | 162.62 | 356 ePKP | 46 34.10 | RMQ | 29.57 | 268 iPd | 09 25.90 | 9.3X |
| | 0.9s | 299.00nm | | | | SSF | 162.85 | 357 ePKP | 46 34.20 | | 0.9s | 175.00nm | | 5.7mb |
| | | | iPKKP | 46 43.80 | | LBF | 162.90 | 356 ePKP | 46 34.20 | CMS | 31.22 | 257 iPd | 09 32.40 | 1.2 |
| | | | i | 47 07.50 | | SAL | 163.00 | 339 PKP | 46 31.00 | TOO | 31.36 | 246 eP | 09 33.00 | 0.6 |
| | | | ePP | 50 48.00 | | AVF | 163.12 | 357 ePKP | 46 34.50 | CTA | 33.81 | 278 iPc | 09 54.90 | 1.1 |
| MMB | 159.01 | 310 | ePKP | 46 30.00 | -1.4 | SMF | 163.24 | 356 ePKP | 46 34.20 | | 0.9s | 172.27nm | | 6.0mb |
| UCC | 159.07 | 356 | PKP+ | 46 33.00 | 1.9 | VAI | 163.24 | 344 PKP | 46 34.20 | | | i | 09 59.00 | 14kmX |
| | | | e | 47 11.00 | | MFF | 163.25 | 5 ePKP | 46 34.90 | STK | 34.77 | 256 eP | 10 03.00 | 1.1 |
| | | | PP | 50 50.00 | | BGF | 163.37 | 358 ePKP | 46 35.30 | OIS | 39.39 | 273 eP | 10 41.00 | 0.1 |
| | | | PKKP | 54 47.00 | | ORX | 163.65 | 345 PKP | 46 36.90 | WBS | 44.19 | 271 iPc | 11 19.50 | -0.8 |
| | | | e | 59 12.00 | | TCF | 163.65 | 360 ePKP | 46 35.20 | FORR | 46.30 | 254 iPd | 11 35.00 | -1.8 |
| GRF | 159.08 | 343 | ePKP | 46 30.30 | -0.9 | ORO | 163.65 | 345 PKP | 46 40.40 | | 0.4s | 37.00nm | | 5.7mb |
| Z | 21s | 16.00um | | 6.8msz | | LSF | 163.68 | 1 ePKP | 46 35.10 | MTN | 49.99 | 278 eP | 12 04.00 | -1.7 |
| | | | e | 47 08.30 | | MAF | 163.72 | 359 ePKP | 46 35.50 | KNA | 50.74 | 274 eP | 12 10.00 | -1.4 |
| WET | 159.12 | 340 | ePKP | 46 30.10 | -1.2 | RSM | 163.77 | 332 PKP | 46 37.00 | MBL | 56.34 | 263 eP | 12 49.00 | -3.7X |
| | Z | 18s | 12.30um | 6.8msz | | LSD | 163.99 | 347 PKP | 46 36.39 | NANU | 59.52 | 260 eP | 13 12.50 | -2.4 |
| MEM | 159.12 | 353 | PKPc | 46 32.40 | 1.3 | | S | 47 29.99 | | SPA | 60.49 | 180 ePc | 13 18.90 | -2.3 |
| | | | e | 47 08.40 | | SFI | 164.02 | 334 PKP | 46 38.10 | | 0.9s | 16.36nm | | 5.2mb |
| BEO | 159.24 | 321 | ePKP | 46 32.00 | 0.5 | LPG | 164.02 | 348 ePKP | 46 36.10 | SYF | 84.03 | 45 eP | 15 25.90 | 23kmX |
| | | | e(Sg) | 47 09.50 | | BOB | 164.08 | 341 PKP | 46 25.50 | | | e | 15 41.00 | 0.2 |
| KKB | 159.30 | 311 | ePKP | 46 33.00 | 1.3 | PGD | 164.11 | 334 PKP | 46 35.80 | | | e | 15 55.00 | 48km |
| SNF | 159.36 | 356 | PKP | 46 33.60 | 2.2 | MME | 164.20 | 337 PKP | 46 35.50 | BCH | 84.41 | 44 P | 15 43.50 | 0.9 |
| | | | e | 47 08.90 | | RSP | 164.26 | 346 PKP | 46 40.75 | PRS | 84.41 | 43 ePc | 15 43.20 | 0.7 |
| NPS | 159.51 | 291 | ePKP | 46 35.00 | 2.9X | BDI | 164.35 | 337 PKP | 46 35.90 | GCC | 84.53 | 42 eP | 15 43.60 | 0.6 |
| KMR | 159.66 | 336 | iPKP- | 46 34.00 | 2.1 | FIR | 164.36 | 335 iPKPc | 46 38.00 | PRI | 84.70 | 43 eP | 15 45.00 | 0.9 |
| | | | i | 47 13.40 | | | i | 47 | | | | | | |

ZOBO 15.65 0 P 25 55.00 0.4
0.8s 22.57nm 4.5mb
VAO 20.80 70 eP 26 52.50 0.1
ITA 22.92 71 eP 27 13.60 0.0
BMA 23.21 72 eP 27 16.30 0.3
e 27 25.00
BAO 24.54 53 eP 27 27.00 -2.0
LIC 71.04 70 P 33 25.50 -0.5
KIC 71.35 70 P 33 27.50 -0.4
ALO 75.68 328 eP 33 51.50 -1.3
0.9s 4.20nm 4.2mb
WB5 124.09 206 ePKP 41 03.80 -1.4
GBA 143.61 112 PKP 41 43.00 1.3
HYB 146.62 108 ePKP 41 48.50 1.7
S.D. = 0.9 on 26 of 27 obs.

? FEB 25, 1989 15h 30m 12.31±2.56s
40.727 N ±19.4km 23.345 E ±17.6km
DEPTH = 10.0km (geophysicist)

GREECE (364)
ML 2.3 (THE).

SOH 0.09 4 ePg 30 15.30 0.3
THE 0.30 252 ePg 30 18.60 0.0
eSg 30 25.70
SRS 0.43 26 ePg 30 20.90 -0.2
KNT 0.55 322 ePg 30 23.40 -0.1
eSg 30 32.10
S.D. = 0.4 on 4 of 4 obs.

% FEB 25, 1989 15h 40m 33.61±0.60s
40.699 N ±4.8km 23.387 E ±5.9km
DEPTH = 10.0km (geophysicist)

GREECE (364)
ML 2.7 (THE).

SOH 0.13 348 ePg 40 36.90 0.2
THE 0.33 258 ePg 40 40.10 -0.3
eSg 40 44.40
SRS 0.45 20 ePg 40 42.50 -0.2
OUR 0.58 129 ePg 40 45.80 0.4
eSg 40 55.30
KNT 0.59 321 ePg 40 44.80 -0.8
eSg 40 53.00
PAIG 0.80 164 ePg 40 48.60 -0.6
VAY 0.88 315 iPg 40 51.30 0.9
iSg 41 03.50
LIT 0.91 229 ePg 40 51.40 0.4
S.D. = 0.7 on 8 of 8 obs.

* FEB 25, 1989 15h 40m 50.76±0.84s
17.723 S ±8.9km 35.401 E ±8.5km
DEPTH = 10.0km (geophysicist)
4.6mb (4 obs.)

MOZAMBIQUE (581)

SONG 3.28 310 ePn 41 42.50 -0.8
iPg 41 52.00
iSg 42 33.00
PTZ 5.21 311 iPn 42 12.00 1.2
iPg 42 28.00
iSb 43 10.00
iSg 43 27.00
BUL 6.86 248 iPn 42 34.80 0.7
iSn 43 43.80
iSg 44 20.00
LSZ 7.33 288 iPn 42 40.50 -0.2
iPg 43 56.70
iSn 44 26.00
iSb 44 34.00
iSg 45 45.00
KMZ 10.15 293 iPn 43 18.70 -1.0
iPg 43 22.00
iSn 45 05.00
iSb 46 07.50
iSg 46 17.80

SLR 10.36 218 eP 43 23.50 0.9
0.9s 84.03nm 6.2mb X
S 45 30.00
KSR 11.31 223 eP 43 34.50 -1.2
S 45 34.50
PRY 11.73 217 eP 43 26.50 -14.9X
S 45 43.50
AVY 11.77 98 eP 43 41.82 -0.2
SEK 12.74 213 iPc 44 02.00 7.0X
S 46 10.00
FRS 15.10 216 eP 44 06.00 -19.9X

BNG 27.59 321 ePc 46 48.10 7.7X
0.7s 6.00nm 4.5mb
BCAO 27.60 321 eP 46 41.00 0.6
0.9s 2.56nm 4.0mb
i 46 48.00
KIC 46.30 298 Pc 49 27.00 8.2X
0.6s 5.00nm 4.7mb
LIC 46.47 297 P 49 28.30 8.2X
TIC 46.68 298 Pc 49 30.20 8.4X
0.7s 12.00nm 5.1mb
S.D. = 1.0 on 9 of 16 obs.

FEB 25, 1989 15h 43m 51.77±0.39s
47.789 N ±4.8km 22.481 E ±4.1km
DEPTH = 10.0km (geophysicist)

ROMANIA (358)

CEI 0.10 188 iPc 43 55.00 0.5
CJR1 1.26 144 iPd 44 15.10 0.0
PSZ 1.75 275 iPn 44 23.50 1.1
DEV 1.93 171 iPd 45 28.00 63.1X
BZS 2.25 196 iPd 44 28.50 -1.1
BUD 2.36 264 ePn 44 30.20 -0.9
PTT 2.79 106 eP 44 41.00 3.7X
SRO 2.81 272 iPn 44 37.40 -0.1
i 44 45.80
i 44 49.90
i 45 24.30
i 45 35.70

BEO 3.28 206 ePn 44 49.00 4.8X
MLR 3.31 133 ePd 44 46.00 1.2
DRA 3.35 158 eP 44 58.00 12.9X
VRI 3.49 122 ePd 44 48.00 0.8
CLI 3.50 109 ePc 44 48.00 0.6
ZST 3.63 278 ePn 44 48.80 -0.4
i 45 02.70
i 45 23.50
i 45 35.60

PPE 3.85 112 ePd 44 55.50 3.2X
ISR 3.86 132 eP 44 39.00 -13.5X
SOP 4.00 271 eP 44 54.20 -0.2
VKA 4.16 279 iP 44 57.30 0.6
CFR 4.70 122 ePd 45 14.00 9.6X
TLB 5.01 128 ePd 45 09.00 0.3
KSP 5.07 309 eP 45 11.00 1.4
VBY 5.47 248 e(Pn) 45 38.00 22.7X
e 46 12.20
PRU 5.68 296 P 45 18.20 0.0
LJU 5.72 255 e(Pn) 45 32.20 13.4X
e(Sn) 46 10.30

KHC 6.07 286 P 45 24.50 0.8
e 46 46.00
KBA 6.24 267 iPc 45 25.50 -0.7
0.7s 8.90nm 4.7mb
i 45 32.80
i 46 11.50

RZN 6.30 165 eP 45 39.00 11.8X
BRG 6.38 302 ePn 45 29.00 1.0
e 46 51.00
e 47 18.00
VAY 6.47 179 eP 45 27.40 -1.9
WET 6.53 286 eP 45 30.60 0.4
NUR 12.81 5 iP 46 55.20 -1.2
SUF 15.11 6 iP 47 25.70 -0.9
KJF 16.70 8 eP 47 46.00 -1.0
S.D. = 1.0 on 23 of 33 obs.

% FEB 25, 1989 15h 51m 31.01±1.27s
34.116 N ±14.2km 135.135 E ±6.8km
DEPTH = 10.0km (geophysicist)
NEAR S. COAST OF SOUTHERN HONSHU(233)
MG 3.3 (JMA). Felt (II JMA) at
Wakayama.

WKY 0.11 13 P 51 33.50 -0.4
iS 51 34.50
WKYJ 0.39 75 iPd 51 39.20 0.1
S 51 44.80
TKSJ 0.91 262 P 51 48.30 -0.2
S 52 01.30
TOTJ 1.53 333 P 51 58.60 0.2
S 52 18.00
YONJ 1.74 308 P 52 01.70 0.2
S 52 23.90
IIDJ 2.66 58 eP 52 21.20 6.5X
eS 52 56.40
S.D. = 0.4 on 5 of 6 obs.

% FEB 25, 1989 16h 14m 28.29±0.76s
16.080 N ±10.8km 61.266 W ±13.3km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 2.0 (FDF).

MGG 0.17 197 ePg 14 34.18 -0.4
S 14 36.20
SFG 0.18 21 eP 14 34.71 0.0
DEG 0.31 40 ePc 14 36.23 0.1
S 14 41.00
PAG 0.40 263 eP 14 37.50 0.0
S 14 42.50
BBL 0.59 200 eP 14 40.53 0.3
S 14 48.40
S.D. = 0.4 on 5 of 5 obs.

% FEB 25, 1989 20h 11m 13.50±1.23s
37.389 N ±10.6km 28.735 E ±10.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

KHL 1.12 34 iPn 11 34.40 -0.2
ELL 1.14 124 iPn 11 35.00 0.2
BCK 1.48 87 iPn 11 39.90 -0.3
IZM 1.54 311 ePn 11 41.00 -0.1
ALT 1.99 33 ePn 11 48.00 0.4
S.D. = 0.4 on 5 of 5 obs.

* FEB 25, 1989 20h 17m 59.13±3.44s
2.219 N ±20.3km 126.742 E ±25.3km
DEPTH = 76.3 ±29.5 km
4.3mb (3 obs.)
MOLUCCA PASSAGE (266)

MNI 2.05 248 ePd 18 32.20 0.0
eS 18 53.50
PCI 7.57 246 ePc 19 53.90 5.0X
0.8s 5.00nm 4.2mb
WB5 23.20 162 eP 22 59.00 -1.2
e 23 01.30
WRA 23.25 162 Pd 23 01.70 1.0
0.6s 5.30nm 4.1mb
OIS 25.91 151 eP 23 26.00 0.1
WARB 28.24 180 eP 23 38.40 -8.6X
CHG 31.83 303 eP 24 19.00 0.0
BJI 38.85 347 eP 25 19.00 0.5
PKI 46.86 307 P 26 23.30 -0.8
0.3s 2.00nm 4.5mb
KKN 47.06 307 P 26 24.80 -0.7
DMN 47.12 306 P 26 26.20 0.2
GKN 47.66 307 P 26 29.40 -0.8
HYB 49.65 291 eP 26 47.00 1.6
S.D. = 1.0 on 11 of 13 obs.

* FEB 25, 1989 20h 40m 08.45±0.96s
18.417 N ±16.3km 96.227 E ±13.0km
DEPTH = 10.0km (geophysicist)
BURMA (296)

CHG 2.61 81 iPg 40 56.00 4.6X
iSg 41 28.00
CHTO 2.61 81 ePn 40 52.00 0.6
ePg 40 57.00
eSg 41 28.00
BDT 2.89 113 ePn 40 54.30 -1.1
ePg 41 31.20
NST 4.63 126 eP 41 25.00 5.0X
LOE 5.33 100 iPn 41 48.10 18.0X
ePg 42 33.50
eSg 42 55.50
NNT 6.71 149 ePn 41 50.00 0.5
ePg 42 17.50
eSg 43 45.00
PKI 13.49 314 P 43 23.60 0.8
0.5s 6.00nm 4.8mb
GKN 14.29 314 P 43 32.20 -0.9
0.4s 4.00nm 4.5mb
S.D. = 1.3 on 5 of 8 obs.

FEB 25, 1989 20h 45m 27.33±0.56s
62.675 N ±5.4km 149.781 W ±5.7km
DEPTH = 10.0km (geophysicist)
CENTRAL ALASKA (1)
ML 3.7 (PMR).

25d 20h

PWA 1.03 183 iPc 45 46.60 -0.1
 PMR 1.13 164 iPc 45 48.10 -0.3
 PMS 1.44 176 eP 45 53.00 -0.5
 TOA 1.78 107 iPd 45 58.90 0.6
 TTA 2.87 278 eP 46 13.70 -0.4
 SVW 3.18 243 eP 46 18.70 0.3
 IMA 3.80 335 iPd 46 27.40 0.0
 DWY 4.86 69 P 46 41.90 -0.3
 KDC 5.12 196 eP 46 46.50 0.6
 S.D. = 0.5 on 9 of 9 obs.

? FEB 25, 1989 20h 48m 18.27±2.62s
 16.274 N ±29.3km 98.008 W ±10.9km
 DEPTH = 33.0km (normol)
 4.6mb (1 obs.)
 NEAR COAST OF GUERRERO, MEXICO (58)

OXX 1.47 57 iP 48 43.00 0.1
 ACX 1.87 289 eP 48 49.20 0.6
 III 2.51 326 eP 48 57.30 -0.6
 IIT 2.75 354 eP 49 03.50 2.3X
 IISM 2.77 12 eP 49 02.00 0.8
 UNM 3.24 340 (P) 49 18.80 10.6X
 CRX 3.50 333 (P) 49 22.20 10.2X
 IIC 3.67 341 (P) 49 19.00 4.6X
 FFC 38.50 356 eP 55 38.00 -1.0
 YKA 47.62 350 P 56 55.60 2.8X
 S.D. = 1.1 on 5 of 10 obs.

FEB 25, 1989 20h 48m 24.74±0.85s
 41.090 N ±4.4km 19.778 E ±10.0km
 DEPTH = 10.0km (geophysicist)
 ALBANIA (391)
 ML 2.0 (SKO).

TIR 0.27 15 iPd 48 30.70 0.4
 BERA 0.41 161 iPg 48 31.50 -1.6
 LACI 0.55 355 ePg 48 35.30 -0.5
 VLO 0.66 199 ePg 48 37.30 -0.5
 OHR 0.77 88 iPg 48 38.60 -1.2
 PHP 0.78 40 iPg 48 39.20 -0.7
 TPE 0.81 167 ePg 48 42.50 2.0
 SDA 0.95 347 ePn 48 51.40 8.6X
 KKS 1.09 26 ePg 48 45.50 0.3
 LSK 1.13 146 ePg 48 46.20 0.3
 SKO 1.53 54 iPn 48 53.00 0.9
 VAY 2.12 83 ePn 49 01.40 0.7
 S.D. = 1.2 on 11 of 12 obs.

% FEB 25, 1989 20h 50m 41.26±2.58s
 17.804 N ±28.1km 66.602 W ±6.7km
 DEPTH = 33.0km (normol)

PUERTO RICO REGION (90)
 MGP 0.51 294 iP 50 52.00 0.0
 SJG 0.53 55 iP 50 52.30 0.0
 CSB 0.64 41 iP 50 53.90 0.0
 APR 0.66 349 iP 50 54.20 0.1
 MCP 0.78 322 iP 50 55.70 -0.1
 LPR 0.86 54 iP 50 57.00 0.0
 S.D. = 0.1 on 6 of 6 obs.

? FEB 25, 1989 21h 19m 01.64±3.97s
 31.834 N ±9.1km 36.435 E ±29.9km
 DEPTH = 10.0km (geophysicist)
 DEAD SEA REGION (373)

JARJ 0.58 314 Pc 19 14.20 0.8
 MASJ 0.62 260 Pc 19 15.00 0.8
 KFNJ 0.65 273 Pd 19 15.00 0.5
 QUTJ 0.65 214 P 19 14.70 0.1
 SALJ 0.66 286 Pd 19 14.80 -0.1

BURJ 0.68 304 P 19 14.00 -1.2
 MKRJ 0.73 248 P 19 15.10 -1.0
 S.D. = 1.0 on 7 of 7 obs.
 & FEB 25, 1989 21h 19m 16.80s
 59.157 N 153.675 W
 DEPTH = 96.3km
 SOUTHERN ALASKA (2)
 <AGS-P>.

PDB 0.69 338 eP 19 33.03 -0.9
 ILIM 1.00 21 iP 19 36.46 -0.8
 CNPM 1.30 72 iP 19 39.99 -0.8
 >NNL 1.50 53 eP 19 43.19 -0.1
 KDC 1.54 156 iP 19 42.55 -1.2
 RDT 1.56 24 eP 19 43.00 -1.1
 NKA 2.01 37 eP 19 50.25 0.4
 SPU 2.19 21 eP 19 51.01 -1.3
 SVW 2.19 334 iP 19 50.39 -1.9
 SLKM 2.21 51 eP 19 51.27 -1.3
 CRP 2.25 19 eP 19 53.19 0.0
 CGLM 2.31 20 eP 19 52.98 -1.0
 SEW 2.35 64 eP 19 53.29 -1.1
 PMS 2.93 43 eP 20 00.96 -1.4
 PWA 3.13 35 eP 20 03.54 -1.5
 MTU 3.18 72 eP 20 03.84 -1.8
 KNIM 3.23 66 eP 20 03.51 -3.0
 PLRM 3.33 41 eP 20 05.06 -2.6
 PME 3.38 41 eP 20 07.10 -1.4
 KNK 3.45 47 eP 20 06.78 -2.6
 GHO 3.52 40 eP 20 08.14 -2.4
 GLI 3.73 60 eP 20 09.46 -3.8
 MID 3.77 83 iP 20 11.89 -1.9
 HIN 3.83 68 eP 20 12.47 -2.3
 TTA 3.95 344 iP 20 14.10 -2.3
 FID 3.96 63 iP 20 12.68 -3.7
 VZW 4.04 59 eP 20 14.75 -2.9
 VLZ 4.17 59 eP 20 17.46 -1.8
 CVA 4.23 67 eP 20 17.77 -2.4
 SGAM 4.48 69 eP 20 21.23 -2.4
 RAGM 4.71 71 eP 20 24.48 -2.4
 TOA 4.73 48 eP 20 24.70 -2.4
 CTGM 6.44 68 eP 20 48.38 -2.4
 YKA 19.13 63 P 23 31.50 -3.0
 34 obs. associated

FEB 25, 1989 21h 50m 19.09±1.05s
 8.034 S ±7.3km 117.448 E ±8.1km
 DEPTH = 21.4 ±9.3 km
 4.2mb (2 obs.)
 SUMBAWA ISLAND REGION (285)

KHKI 1.85 260 eP 50 50.60 0.6
 MKS 3.44 36 iPc 51 20.00 0.3
 PCI 7.47 19 ePd 52 14.50 4.9X
 MBL 13.25 170 eP 53 28.80 0.1
 MTN 14.28 111 iPd 53 40.90 -1.3
 NANU 14.56 187 eP 53 45.00 -0.9
 WARB 20.06 155 eP 54 45.30 -8.6X
 WB5 20.18 127 eP 54 56.10 0.8
 WRA 20.20 128 Pd 54 56.50 1.1
 PKI 47.05 320 P 58 51.40 -0.2
 DMN 47.27 320 P 58 53.20 -0.1
 KKN 47.29 320 P 58 53.20 -0.2
 GKN 47.85 320 P 58 57.40 -0.3
 S.D. = 0.8 on 11 of 13 obs.

? FEB 25, 1989 22h 19m 03.54±11.09s
 29.578 S ±72.7km 71.860 W ±59.8km
 DEPTH = 33.0km (normol)

NEAR COAST OF CENTRAL CHILE (135)

RTRS 2.17 106 iPd 19 38.00 0.0
 JACH 3.28 161 iPd 19 52.60 -1.3
 ZON 3.37 126 eP 19 55.00 -0.2
 RTLL 3.41 122 e(P) 19 55.40 -0.3
 RTCV 3.66 129 ePd 19 59.40 0.2
 PEL 3.69 165 iPd 20 00.50 0.8
 CFA 3.72 124 e(P) 20 00.20 0.1
 FCH 3.97 161 eP 20 05.00 1.0
 TACH 4.14 169 ePd 20 05.50 -0.5
 MDZ 4.18 143 e(P) 20 11.20 4.5X
 S.D. = 0.8 on 9 of 10 obs.

FEB 25, 1989 22h 24m 54.22±0.88s
 46.847 N ±8.0km 112.516 W ±5.7km
 DEPTH = 5.0km (geophysicist)
 MONTANA (456)
 ML 3.2 (BUT).

HRY 0.49 106 iPd 25 04.30 0.2
 BUT 0.83 182 eP 25 11.20 0.2
 LRM 1.03 177 ePc 25 13.90 -0.4
 LCCM 1.10 156 iPd 25 15.10 -0.4
 MEMT 1.64 139 ePd 25 24.20 0.2
 BGMT 1.65 168 ePn 25 24.10 -0.1
 CCMT 1.95 187 ePn 25 28.50 0.0
 HPI 3.16 188 eP 25 46.00 0.1
 DPW 4.00 287 eP 25 56.80 -0.7
 LNOR 4.11 258 e(P) 26 00.00 0.9
 BW06 4.58 152 eP 26 10.50 4.5X
 S.D. = 0.5 on 10 of 11 obs.

FEB 25, 1989 23h 07m 42.19±0.31s
 14.181 N ±5.5km 124.400 E ±5.3km
 DEPTH = 26.2km (4 depth phases)
 5.0mb (10 obs.) 4.6msz (1 obs.)
 LUZON, PHILIPPINE ISLANDS (249)

BAG 4.30 302 eP 08 45.00 -2.7
 DAV 7.14 171 eP 09 35.00 0.3
 PCI 15.65 197 ePc 11 31.60 8.8X
 WHN 18.73 332 eP 12 01.00 -0.2
 GUM0 19.88 89 eP 12 13.80 -0.7
 PJG 19.88 89 eP 12 14.20 -0.3
 GUA 19.93 89 eP 12 14.80 -0.3
 GYA 20.60 309 P 12 22.20 0.0
 LOE 22.05 281 iPc 12 37.60 0.9
 TIA 22.89 345 eP 12 44.40 -0.5
 KMI 23.08 301 Pd 12 49.00 1.8
 XAN 24.24 327 Pd 12 59.80 1.7
 CHG 24.83 284 iPc 13 03.30 -0.6
 CD2 25.24 315 P 13 08.10 0.4
 TIY 25.74 338 eP 13 13.20 0.8
 BJI 26.75 346 (P) 13 22.00 0.4
 SNY 27.56 359 eP 13 28.10 -0.8
 PSI 27.62 248 eP 13 30.00 0.2
 MTN 27.67 166 eP 13 36.00 5.9X
 LZH 28.55 323 eP 13 37.00 -1.2
 HHC 28.84 340 eP 13 41.00 0.4
 BTO 29.17 337 eP 13 44.80 1.2
 GTA 33.15 324 eP 14 18.50 -0.3
 LSA 34.34 302 P 14 29.80 0.2
 WB5 35.24 164 eP 14 35.60 -1.1
 WRA 35.29 164 P 14 38.00 0.8

PKI 0.8s 3.00nm 4.3mb
38.62 297 P 15 04.90 -0.7
0.7s 24.00nm 5.1mb
KKN 38.78 297 P 15 06.40 -0.4
1.0s 74.00nm 5.4mb
DMN 38.89 296 P 15 07.40 -0.4
1.0s 87.00nm 5.5mb
GKN 39.38 297 P 15 11.00 -0.8
WMO 43.04 321 eP 15 42.00 0.5
GBA 45.53 275 Pd 16 00.90 -0.9
0.5s 7.70nm 4.9mb
MAIO 61.59 304 eP 18 00.00 -0.1
eS 26 31.00
TAB 72.08 306 eP 19 07.00 0.4
KEV 79.35 339 eP 19 47.00 0.1
SOD 80.00 337 eP 19 50.00 -0.4
i 19 58.00 25km
KJF 80.24 334 iP 19 51.80 0.0
0.6s 10.40nm 5.0mb
SUF 81.26 333 iP 19 57.10 -0.1
0.5s 2.30nm 4.5mb
INK 81.34 22 eP 19 57.00 -0.5
AVY 82.34 248 eP 20 04.50 0.7
VRI 85.20 316 iPd 20 19.00 1.3
MLR 85.83 316 eP 20 21.50 0.5
YKA 90.93 23 P 20 45.40 0.6
S.D. = 0.9 on 41 of 43 obs.

FEB 25, 1989 23h 23m 50.83±0.71s
46.055 N ± 7.3km 14.749 E ± 5.4km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.4 (LJU). Felt (IV) at
Kresnice.

LJU 0.15 266 iPd 23 54.50 0.1
0.2s 250.00nm
iSg 23 57.50
CEY 0.39 216 ePg 23 58.90 0.1
eSg 24 05.90
VOY 0.60 268 iPg 24 02.50 -0.4
eSg 24 11.90
VBY 0.66 147 ePg 24 04.80 0.9
iSg 24 16.60
TRI 0.77 244 P 24 05.20 -0.6
PTJ 0.86 100 e(Pg) 24 06.50 -0.9
eSg 24 19.80
RBL 0.91 296 P 24 07.60 -0.6
eSg 24 09.80
KBA 1.41 317 ePd 24 17.50 0.8
0.5s 5.10nm
i 24 38.70
FVI 1.47 292 P 24 17.90 0.6
S.D. = 0.8 on 9 of 9 obs.

% FEB 26, 1989 00h 09m 30.37±0.75s
40.869 N ± 5.8km 28.174 E ± 7.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
CTT 0.34 35 ePg 09 37.00 -0.4
BNT 0.55 201 iPg 09 39.90 -1.6
EDC 0.57 205 iPg 09 31.00 -11.0X
eSg 09 47.00
KCT 0.63 167 iPg 09 42.90 -0.2
ISK 0.70 73 ePg 09 43.90 -0.3
eSg 09 55.90
YLV 0.96 108 iPg 09 48.40 -0.3
DMK 1.00 342 ePg 09 50.00 0.7
iSg 10 03.50
HRT 1.13 92 ePn 09 51.40 -0.2
DST 1.31 164 ePn 09 56.90 2.3
EZN 1.76 234 ePn 10 01.00 0.0
S.D. = 1.2 on 9 of 10 obs.

* FEB 26, 1989 00h 46m 58.27±0.74s
56.950 N ± 13.2km 161.784 E ± 17.0km
DEPTH = 33.0km (normol)
4.8mb (4 obs.)
NEAR EAST COAST OF KAMCHATKA (218)
INK 30.27 42 eP 53 09.00 1.1
YKA 39.72 46 P 54 28.60 0.0
PIP 49.21 236 ePc 55 27.50 -17.6X
1.0s 97.00nm
SOD 51.61 340 iP 56 03.20 0.3
BGMT 51.85 64 ePc 56 01.30 -4.0X

FRB 53.58 25 eP 56 16.00 -1.6
KJF 54.17 337 iP 56 22.20 0.3
0.6s 9.10nm 5.0mb
SUF 55.81 337 iP 56 34.30 0.4
0.3s 6.20nm 5.1mb
NUR 58.12 337 iP 56 50.10 -0.1
NB2 60.10 344 P 57 03.70 -0.4
0.6s 3.40nm 4.7mb
WB5 79.92 206 eP 59 05.80 0.7
WRA 79.99 206 Pc 59 04.70 -0.7
1.1s 5.20nm 4.4mb
S.D. = 0.9 on 10 of 12 obs.

FEB 26, 1989 01h 44m 15.49±0.83s
40.033 N ± 7.6km 24.335 E ± 7.1km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

PLG 0.76 297 eP 44 31.20 0.8
eS 44 42.00
SOH 1.09 317 eP 44 35.50 -0.5
NEO 1.12 230 eP 44 36.10 -0.5
THE 1.21 300 eP 44 41.50 3.6X
SRS 1.22 333 eP 44 38.70 0.5
RDO 1.44 39 eP 44 41.00 -0.6
EZN 1.54 97 ePn 45 03.00 20.0X
KNT 1.57 316 eP 44 50.00 6.5X
MMB 1.62 344 iPd 44 43.00 -1.2
RZN 1.68 10 eP 44 47.00 1.8
PRK 1.69 117 eP 44 45.70 0.5
KDZ 1.81 27 iPd 44 46.00 -1.0
VAY 1.86 314 eP 44 53.00 5.4X
KKB 2.06 333 eP 44 55.00 4.4X
PGB 2.52 357 iP 45 03.00 5.9X
S.D. = 1.1 on 9 of 15 obs.

FEB 26, 1989 01h 50m 40.22±0.77s
7.302 S ± 6.0km 108.006 E ± 6.9km
DEPTH = 160.6 ± 7.8 km
4.9mb (10 obs.)
JAVA (277)

KLI 3.96 308 eP 51 41.50 0.6
eS 52 38.00
TPI 4.53 356 iPd 51 50.10 1.7
e 56 00.00
TRT 4.61 95 iPd 51 50.60 1.2
iS 52 32.50
KHKI 7.61 98 ePd 52 27.80 -1.6
eS 53 45.50
e 57 49.00
PPI 10.19 312 eP 53 02.20 -1.4
PCI 13.40 62 ePc 53 48.50 3.3X
PSI 13.44 317 eP 53 42.20 -3.6X
TSM 15.23 42 ePc 54 12.80 4.5X
NANU 16.81 155 eP 54 27.30 -0.4
0.3s 22.00nm 5.0mb
eS 57 19.00
MBL 17.90 142 eP 54 39.70 -0.8
e 54 44.00
eS 57 45.00
MEKA 21.66 154 eP 55 20.00 1.2
e 55 34.00
eS 59 18.00
KNA 21.99 114 iPd 55 22.80 0.7
MTN 23.42 105 eP 55 37.00 1.0
e 55 42.00
e 59 59.00
NST 24.12 341 eP 55 43.50 0.9
BAL 24.58 162 iPc 55 46.30 -0.6
MUN 25.71 164 iPd 55 56.60 -0.7
e 56 30.00
KLB 25.83 161 iPd 55 57.60 -0.8
0.5s 15.00nm 4.9mb
WARB 25.84 139 eP 55 48.00 -10.5X
e 56 21.00
eS 00 48.00
COOL 26.49 154 iPc 56 03.20 -1.2
e 56 36.00
eS 01 07.00
CHG 27.45 341 eP 56 12.00 -0.6
WB5 28.45 119 eP 56 22.00 -0.3
WRA 28.46 119 Pc 56 21.80 -0.5
0.9s 7.70nm 4.4mb
FORR 30.04 144 eP 56 35.00 -1.2
QIS 33.30 117 iPd 57 04.60 -0.1
GYA 33.58 358 P 57 07.80 0.6

PcP 59 44.60
KOD 35.05 299 eP 57 21.00 1.0
GBA 36.78 304 Pd 57 33.50 -0.7
1.0s 12.30nm 4.6mb
HYB 38.08 310 eP 57 44.50 -0.7
STK 39.70 133 iPd 57 59.30 0.9
0.5s 64.00nm 5.6mb
DMN 41.17 328 P 58 09.00 -1.8
KKN 41.23 329 P 58 09.30 -1.9
GKN 41.74 328 P 58 13.40 -1.8
LZH 43.33 355 e(P) 58 28.00 -0.1
TIY 44.97 5 iPd 58 41.40 0.4
NDI 46.49 322 iPd 58 52.50 -0.6
GTA 47.09 351 Pc 58 57.80 -0.1
pP 59 35.00 167kmX
PcP 00 27.80
BTO 47.70 2 eP 59 03.00 0.5
BJI 47.71 8 eP 59 02.00 -0.4
e 00 29.50
WMO 54.11 342 P 59 49.70 -1.0
AVY 59.58 252 iPd 00 30.44 0.6
MAIO 62.84 317 eP 00 50.00 -1.3
TAB 72.91 313 eP 01 54.00 0.2
BUL 77.60 251 iPc 02 22.20 1.5
SEK 78.13 243 iPc 02 25.00 1.4
0.3s 12.99nm 5.1mb
MBH 79.16 302 iPc 02 30.00 1.1
PRNI 79.21 303 ePc 02 30.00 0.8
SPA 82.75 180 iPd 02 48.10 0.9
1.0s 15.50nm 4.7mb
BBTK 83.46 311 iPd 02 52.00 0.7
VRI 89.16 316 ePd 03 20.00 1.2
MLR 89.62 316 ePc 03 19.00 -2.1
KJF 92.31 334 iP 03 33.20 0.3
0.7s 13.30nm 5.2mb
SUF 92.71 333 iP 03 33.50 -1.3
0.7s 4.00nm 4.7mb
SOD 93.37 337 iP 03 37.20 -0.6
KEV 93.69 340 eP 03 27.00 -12.2X
KBA 98.47 316 eP 04 04.00 2.4
0.8s 2.40nm 4.8mb
YKA 116.80 21 PKP 09 07.60 0.9
FRB 123.61 358 ePKP 09 19.00 -0.6
LRM 128.18 35 ePKP 09 31.10 1.7
S.D. = 1.1 on 53 of 58 obs.

FEB 26, 1989 02h 50m 11.57±0.56s
45.164 N ± 4.1km 26.987 E ± 4.7km
DEPTH = 19.9 ± 7.1 km
ROMANIA (358)
ISR 0.31 265 iPc 50 18.50 0.0
VRI 0.73 345 iPd 50 26.00 0.5
MLR 0.81 294 iPc 50 27.50 0.6
CFR 0.82 88 iPd 50 25.50 -1.6
BUC1 1.06 220 ePd 50 50.00 18.8X
CVD 1.12 138 eP 50 42.00 10.0X
PPE 1.14 23 ePc 50 33.50 1.1
BIR 1.19 22 eP 50 32.50 -0.6
CLI 1.40 8 ePc 50 36.50 0.4
PTT 1.82 347 ePd 50 47.00 4.9X
DRA 2.00 257 ePd 50 45.00 0.3
IAS 2.07 11 eP 50 56.00 10.3X
PVL 2.28 212 iPd 50 55.00 6.2X
CJR1 2.88 305 eP 50 57.60 0.3
DEV 2.96 286 ePd 50 57.00 -1.4
DIM 3.29 199 eP 51 03.00 0.0
PGB 3.31 219 iP 51 04.00 0.5
DMK 3.39 170 ePn 51 06.00 1.5
PLD 3.48 209 eP 51 05.00 -0.8
KDZ 3.69 199 iPd 51 10.00 1.1
VTS 3.75 228 iP 51 10.00 0.2
BZS 3.81 279 ePc 51 09.50 -1.0
RZN 3.85 206 iP 51 11.00 -0.2
KKB 4.35 222 iP 51 18.00 -0.1
HRT 4.76 155 ePn 51 18.10 -6.0X
VAY 5.02 222 ePn 51 27.20 -0.3
SKO 5.14 234 ePn 51 29.00 -0.3
BBTK 6.82 139 eP 52 09.00 15.9X
S.D. = 0.9 on 21 of 28 obs.

& FEB 26, 1989 03h 18m 39.74s
59.545 N 152.921 W
DEPTH = 90.5km
SOUTHERN ALASKA (2)
<AGS-P>.

26d 03h

| | | | | | |
|------|------|-----|----|----------|------|
| ILIM | 0.54 | 358 | iP | 18 54.61 | -0.5 |
| | | | eS | 19 07.13 | |
| CNPM | 0.86 | 91 | iP | 18 57.77 | -0.4 |
| | | | eS | 19 11.66 | |
| NNL | 0.96 | 58 | iP | 18 59.48 | 0.2 |
| | | | eS | 19 14.36 | |
| RDT | 1.06 | 14 | iP | 18 59.62 | -1.0 |
| | | | eS | 19 13.02 | |
| NKA | 1.47 | 34 | eP | 19 06.64 | 1.2 |
| | | | eS | 19 25.20 | |
| SLKM | 1.66 | 53 | eP | 19 06.60 | -1.5 |
| SPU | 1.70 | 14 | iP | 19 07.42 | -1.1 |
| CRP | 1.77 | 12 | iP | 19 08.60 | -1.0 |
| | | | eS | 19 31.59 | |
| KDC | 1.82 | 173 | iP | 19 08.25 | -1.8 |
| | | | eS | 19 30.69 | |
| CGLM | 1.83 | 14 | iP | 19 09.22 | -1.0 |
| SEW | 1.84 | 71 | eP | 19 08.85 | -1.5 |
| | | | eS | 19 30.71 | |
| SVW | 2.07 | 321 | iP | 19 11.90 | -1.5 |
| PMS | 2.39 | 43 | eP | 19 16.47 | -1.3 |
| PWA | 2.59 | 34 | eP | 19 19.20 | -1.3 |
| MTU | 2.70 | 78 | eP | 19 20.23 | -1.8 |
| KNIM | 2.73 | 71 | iP | 19 19.88 | -2.5 |
| PLRM | 2.78 | 41 | eP | 19 21.15 | -1.9 |
| PME | 2.84 | 41 | eP | 19 22.32 | -1.5 |
| KNK | 2.90 | 48 | eP | 19 22.62 | -2.1 |
| GHO | 2.98 | 40 | eP | 19 24.07 | -1.8 |
| GLI | 3.20 | 63 | eP | 19 25.66 | -3.2 |
| SML | 3.20 | 43 | eP | 19 26.75 | -2.2 |
| HIN | 3.34 | 72 | eP | 19 28.27 | -2.5 |
| FID | 3.44 | 67 | iP | 19 28.74 | -3.4 |
| VZW | 3.51 | 62 | eP | 19 30.72 | -2.5 |
| VLZ | 3.64 | 61 | eP | 19 32.71 | -2.2 |
| CVA | 3.73 | 71 | eP | 19 33.24 | -2.9 |
| SGAM | 3.99 | 73 | eP | 19 36.72 | -3.0 |
| TOA | 4.18 | 49 | eP | 19 41.31 | -1.2 |
| RAGM | 4.23 | 75 | eP | 19 41.16 | -2.0 |
| GLB | 4.89 | 63 | eP | 19 49.38 | -2.9 |
| CTGM | 5.94 | 71 | eP | 20 04.62 | -2.4 |

32 obs. associated

FEB 26, 1989 03h 26m 31.22±0.62s
 37.196 N ± 6.5km 20.800 E ± 4.8km
 DEPTH = 10.0km (geophysicist)
 4.8mb (1 obs.)

IONIAN SEA (399)
 ML 3.9 (ATH).

| | | | | | |
|------|-------|--------|-----|----------|-------|
| ITM | 0.90 | 91 | ePg | 26 47.10 | -1.4 |
| | | | eSg | 27 00.00 | |
| VLS | 0.99 | 350 | ePb | 26 50.00 | -0.1 |
| | | | eSg | 27 06.00 | |
| ATH | 2.44 | 71 | ePb | 27 14.00 | 2.2 |
| NEO | 2.84 | 41 | ePn | 27 18.10 | 0.6 |
| LSK | 2.95 | 357 | iPn | 27 22.20 | 3.1X |
| LIT | 3.19 | 24 | ePg | 27 24.00 | 1.6 |
| KZN | 3.20 | 13 | ePn | 27 24.00 | 1.5 |
| VLO | 3.42 | 343 | ePn | 27 36.00 | 10.4X |
| BERA | 3.56 | 350 | ePn | 27 38.50 | 10.9X |
| PLG | 3.79 | 32 | ePn | 27 31.00 | 0.1 |
| THE | 3.82 | 26 | ePg | 27 30.30 | -1.1 |
| LCI | 3.84 | 326 | P | 27 29.80 | -1.8 |
| SOI | 3.87 | 285 | P | 27 32.70 | 0.7 |
| OHR | 3.91 | 360 | ePn | 27 35.80 | 3.2X |
| SOH | 4.13 | 28 | ePg | 27 35.10 | -0.6 |
| | | | eSg | 27 49.30 | |
| TIR | 4.21 | 350 | ePn | 27 40.00 | 3.2X |
| KNT | 4.28 | 22 | ePb | 27 37.60 | -0.3 |
| | | | eSb | 27 54.90 | |
| ATN | 4.34 | 284 | P | 27 39.60 | 0.8 |
| NPS | 4.34 | 115 | ePb | 27 42.00 | 3.2X |
| VAY | 4.34 | 18 | ePn | 27 38.40 | -0.3 |
| SRS | 4.48 | 28 | ePb | 27 39.50 | -1.1 |
| LACI | 4.51 | 350 | ePn | 27 42.00 | 0.9 |
| BRT | 4.62 | 324 | P | 27 42.60 | -0.1 |
| MEU | 4.69 | 271 | P | 27 43.80 | 0.0 |
| | | | eSn | 28 35.90 | |
| SKO | 4.80 | 6 | ePn | 27 50.00 | 4.8X |
| RDO | 5.40 | 42 | ePn | 27 54.00 | 0.4 |
| KAP | 5.40 | 106 | ePn | 27 55.00 | 1.2 |
| KSL | 7.14 | 96 | ePn | 28 17.00 | -1.2 |
| NUR | 23.46 | 5 | iP | 31 48.10 | 6.8X |
| SUF | 25.76 | 6 | eP | 32 02.00 | -1.4 |
| KJF | 27.36 | 7 | eP | 32 21.00 | 3.0X |
| BNG | 32.67 | 184 | iPd | 33 05.30 | -0.4 |
| | 0.4s | 5.00nm | | 4.8mb | |

S.D. = 1.1 on 23 of 32 obs.

% FEB 26, 1989 03h 43m 53.22±0.92s
 37.715 N ± 8.1km 29.258 E ± 9.5km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

| | | | | | |
|-----|------|-----|-----|----------|------|
| KHL | 0.64 | 19 | iPg | 44 05.00 | -1.2 |
| | | | iSg | 44 15.50 | |
| BCK | 1.09 | 103 | iPn | 44 14.20 | 0.5 |
| ELL | 1.10 | 152 | iPn | 44 13.60 | -0.3 |
| ALT | 1.50 | 26 | ePn | 44 20.30 | 0.1 |
| IJM | 1.72 | 294 | ePn | 44 23.00 | -0.4 |
| DST | 1.95 | 346 | ePn | 44 28.00 | 1.2 |

S.D. = 1.1 on 6 of 6 obs.

FEB 26, 1989 03h 47m 43.77±0.62s
 45.169 N ± 5.5km 26.984 E ± 6.5km
 DEPTH = 17.3 ± 10.0 km

ROMANIA (358)

| | | | | | |
|-----|------|-----|-----|----------|-------|
| ISR | 0.31 | 264 | iPc | 47 50.50 | -0.1 |
| VR1 | 0.72 | 346 | iPd | 47 58.00 | 0.4 |
| MLR | 0.80 | 294 | ePc | 47 59.00 | 0.0 |
| CFR | 0.83 | 88 | iPd | 47 57.50 | -1.8 |
| CVD | 1.12 | 138 | iP | 48 33.00 | 28.7X |
| PPE | 1.14 | 23 | eP | 48 05.50 | 0.9 |
| BIR | 1.19 | 22 | eP | 48 21.00 | 15.6X |
| CLI | 1.40 | 9 | ePd | 48 08.00 | -0.5 |
| PSN | 1.72 | 150 | eP | 48 15.00 | 2.0 |
| PCB | 3.32 | 219 | iP | 48 36.00 | 0.0 |
| KDZ | 3.70 | 199 | iP | 48 42.00 | 0.6 |
| VTS | 3.75 | 228 | iP | 48 42.00 | -0.3 |
| MMB | 4.29 | 215 | eP | 48 49.00 | -0.8 |
| KKB | 4.35 | 222 | eP | 48 50.00 | -0.6 |

S.D. = 1.1 on 12 of 14 obs.

FEB 26, 1989 04h 20m 00.85±0.57s
 41.454 N ± 5.1km 23.592 E ± 5.8km
 DEPTH = 10.0km (geophysicist)

GREECE-BULGARIA BORDER REGION (363)

ML 2.5 (THE).

| | | | | | |
|-----|------|-----|-----|----------|-------|
| MMB | 0.17 | 37 | iPg | 20 04.00 | -0.7 |
| SRS | 0.34 | 180 | ePg | 20 07.20 | -0.6 |
| KKB | 0.56 | 317 | iPg | 20 11.00 | -1.3 |
| KNT | 0.60 | 241 | ePg | 20 11.80 | -1.1 |
| | | | eSg | 20 20.60 | |
| SOH | 0.66 | 196 | ePg | 20 13.20 | -0.8 |
| | | | eSg | 20 22.70 | |
| VAY | 0.78 | 261 | ePg | 20 18.40 | 2.4 |
| | | | eSg | 20 31.50 | |
| RZN | 0.88 | 74 | ePg | 20 18.00 | 0.2 |
| GRG | 1.03 | 241 | ePg | 20 34.80 | 14.5X |
| PLG | 1.08 | 186 | ePn | 20 21.60 | 0.3 |
| | | | eSn | 20 38.00 | |
| VTS | 1.17 | 346 | iPg | 20 24.00 | 1.2 |
| PCB | 1.18 | 21 | iPg | 20 22.00 | -0.8 |
| KDZ | 1.38 | 81 | iPd | 20 26.00 | -0.2 |
| RDO | 1.50 | 101 | ePn | 20 29.00 | 1.2 |
| | | | eSn | 20 50.00 | |

S.D. = 1.2 on 12 of 13 obs.

% FEB 26, 1989 04h 30m 49.47±1.10s
 39.211 N ± 9.0km 28.821 E ± 11.1km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

| | | | | | |
|-----|------|-----|-----|----------|-------|
| DST | 0.42 | 339 | iPg | 30 57.90 | -0.2 |
| | | | eSg | 31 04.90 | |
| ALT | 1.01 | 98 | iPg | 31 08.30 | -0.4 |
| | | | eSg | 31 20.30 | |
| KHL | 1.04 | 148 | ePn | 31 09.50 | 0.3 |
| KCT | 1.10 | 341 | iPg | 31 06.10 | -4.0X |
| EDC | 1.35 | 327 | ePn | 31 14.00 | -0.3 |
| GPA | 1.57 | 46 | ePn | 31 17.00 | -0.5 |
| HRT | 1.73 | 22 | ePn | 31 21.00 | 1.1 |

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

% FEB 26, 1989 04h 38m 28.13±1.18s
 45.129 N ± 12.6km 27.080 E ± 6.2km
 DEPTH = 10.0km (geophysicist)

ROMANIA (358)

| | | | | | |
|-----|------|-----|-----|----------|-----|
| ISR | 0.38 | 271 | iPc | 38 36.00 | 0.1 |
| CFR | 0.76 | 85 | iPd | 38 43.00 | 0.0 |
| VR1 | 0.78 | 342 | iPc | 38 43.50 | 0.1 |

| | | | | | |
|-----|------|-----|-----|----------|------|
| MLR | 0.88 | 295 | iPc | 38 45.00 | -0.1 |
| PPE | 1.15 | 19 | eP | 38 53.50 | 3.9X |
| CLI | 1.43 | 6 | ePc | 38 54.00 | -0.1 |

S.D. = 0.2 on 5 of 6 obs.

* FEB 26, 1989 05h 34m 42.34±0.34s
 59.012 S ± 11.5km 25.555 W ± 9.0km
 DEPTH = 33.0km (normal)
 5.4mb (7 obs.)

SOUTH SANDWICH ISLANDS REGION (153)

| | | | | | |
|------|--------|---------|----------|----------|-------|
| SPA | 31.16 | 180 | iPc | 41 00.00 | 0.0 |
| | 0.8s | 32.08nm | | 5.2mb | |
| ITA | 39.08 | 331 | eP | 42 10.00 | 1.9 |
| FCH | 39.13 | 291 | eP | 42 10.00 | 1.4 |
| TACH | 39.18 | 290 | eP | 42 08.50 | -0.1 |
| SAN | 39.21 | 290 | eP | 42 09.00 | 0.1 |
| PEL | 39.47 | 291 | iPd | 42 11.50 | 0.4 |
| JACH | 39.81 | 291 | eP | 42 16.50 | 2.6 |
| FRS | 45.06 | 72 | e(P) | 42 47.00 | -9.5X |
| BAO | 46.37 | 329 | eP | 43 01.20 | -6.0X |
| SEK | 47.37 | 74 | eP | 43 17.00 | 1.9 |
| | 0.4s | 9.32nm | | 5.1mb | |
| | | i | 43 31.50 | | |
| CNCB | 52.28 | 305 | P | 43 53.00 | -0.3 |
| LPB | 52.58 | 305 | eP | 43 54.00 | -1.3 |
| ZOBO | 52.83 | 305 | P | 43 56.00 | -1.3 |
| | Z 24s | 0.15um | | 4.0mszX | |
| | | LR | 01 40.00 | | |
| ARE | 54.11 | 302 | e(P) | 44 05.00 | -1.4 |
| LIC | 67.07 | 22 | Pc | 45 34.24 | 0.0 |
| | 0.7s | 29.00nm | | 5.5mb | |
| KIC | 67.26 | 23 | Pc | 45 35.50 | 0.0 |
| | 0.8s | 25.00nm | | 5.4mb | |
| TIC | 67.48 | 22 | Pc | 45 36.84 | 0.0 |
| | 0.7s | 26.00nm | | 5.4mb | |
| BNG | 72.26 | 47 | iPc | 46 06.00 | -0.1 |
| | 0.3s | 10.00nm | | 5.3mb | |
| CAN | 85.91 | 176 | eP | 47 19.80 | -0.1 |
| BWA | 86.78 | 175 | eP | 47 19.10 | -5.1X |
| FORR | 87.83 | 158 | iPd | 47 29.90 | 0.7 |
| | 0.5s | 40.00nm | | 6.0mb | |
| NB2 | 123.08 | 20 | PKP | 53 34.80 | -0.6 |
| | 0.9s | 6.40nm | | | |
| DMN | 123.81 | 92 | PKP | 53 37.70 | -0.5 |
| GKN | 123.89 | 91 | PKP | 53 37.30 | -0.9 |
| PKI | 123.94 | 92 | PKP | 53 37.60 | -1.0 |
| | 0.6s | 11.00nm | | | |
| KKN | 124.05 | 92 | PKP | 53 37.80 | -0.8 |
| | 0.6s | 11.00nm | | | |
| NUR | 125.43 | 28 | ePKP | 53 40.00 | 0.1 |
| LRM | 126.31 | 300 | ePKP | 53 42.80 | 0.3 |
| FRB | 126.74 | 338 | ePKP | 53 41.00 | -1.3 |
| SUF | 127.71 | 27 | iPKP | 53 43.40 | -0.9 |
| | 0.7s | 5.00nm | | | |
| FFC | 128.80 | 314 | ePKP | 53 46.00 | -0.6 |
| | 1.2s | 19.00nm | | | |
| KJF | 129.35 | 27 | iPKP | 53 47.10 | -0.2 |
| | 0.7s | 17.40nm | | | |
| SOD | 131.78 | 24 | iPKP | 53 51.00 | -0.9 |
| DAG | 135.59 | 2 | ePKP | 53 58.00 | -0.9 |
| YKC | 138.87 | 315 | ePKPc | 54 04.50 | -0.9 |
| | 0.7s | 23.00nm | | | |
| YKA | 138.93 | 315 | PKP | 54 04.90 | -0.6 |
| ALE | 142.55 | 353 | ePKP | 54 08.00 | -3.5X |
| | 0.8s | 10.00nm | | | |
| TIY | 145.70 | 110 | iPKPd | 54 18.50 | 0.3 |
| BTO | 146.73 | 104 | PKP | 54 22.30 | 2.5 |
| TIA | 146.73 | 117 | PKPc | 54 21.10 | 1.3 |
| MBC | 147.04 | 334 | ePKP | 54 21.00 | 1.9 |
| | 0.8s | 33.00nm | | | |
| INK | 148.62 | 317 | ePKP | 54 21.00 | -0.8 |
| | 0.7s | 19.00nm | | | |
| BJI | 149.34 | 111 | ePKP | 54 28.00 | 4.2X |

26d 05h

KHL 4.26 48 ePn 53 03.50 -0.4
 EZN 4.35 8 iPn 52 57.70 -7.3X
 BCK 4.53 63 ePn 53 06.50 -1.1
 VAY 6.24 339 e(Pn) 53 30.00 -1.4
 BBTk 7.19 51 eP 53 44.50 -0.2
 DSI 9.12 113 eP 54 10.50 -0.7
 PRNI 9.49 120 eP 54 15.50 -0.8
 MBH 9.75 123 eP 54 21.00 1.2
 KHC 16.19 331 P 55 45.60 1.1

S.D. = 1.1 on 12 of 15 obs.

FEB 26, 1989 05h 58m 40.96±0.19s
 14.448 N ± 5.2km 146.970 E ± 3.8km
 DEPTH = 54.4km (25 depth phases)
 5.0mb (15 obs.)

MARIANA ISLANDS (216)

GUA 2.19 246 eP 59 14.80 -0.8
 eS 59 42.70
 PJG 2.21 248 eP 59 15.00 -0.9
 GUMO 2.21 248 eP 59 15.20 -0.7
 PMG 23.70 180 eP 03 48.50 -0.3
 MTN 31.33 211 eP 04 58.00 -0.5
 WB5 36.30 200 eP 05 41.00 -0.3
 i 05 56.70 62km
 WRA 36.36 200 Pc 05 41.40 -0.5
 0.9s 4.80nm 4.4mb
 BJI 37.08 319 eP 05 50.00 2.3
 TIY 38.38 314 Pd 05 59.00 0.2
 GYA 39.45 294 P 06 09.00 1.1
 XAN 39.50 306 Pc 06 08.20 0.1
 HHC 40.49 317 eP 06 19.90 3.7X
 RMQ 40.73 178 eP 06 24.00 5.9X
 BTO 41.39 316 eP 06 25.00 1.4
 CD2 42.81 300 eP 06 35.70 0.3
 LZH 44.10 307 eP 06 46.50 0.6
 1.5s 84.00nm 5.3mb
 CHG 46.12 282 eP 07 02.50 0.5
 NANU 47.97 220 eP 07 18.00 1.6
 GTA 48.15 310 P 07 17.80 -0.1
 TOO 51.76 181 iPc 07 46.40 1.2
 i 08 01.60 58km
 SHL 52.61 291 iP 07 51.30 -0.8
 LSA 53.43 296 Pc 07 59.10 0.7
 WMO 58.04 313 eP 08 30.60 -0.3
 PKI 58.42 294 P 08 33.60 -0.5
 KKN 58.53 294 P 08 34.50 -0.3
 DMN 58.69 294 P 08 35.70 -0.2
 GKN 59.10 294 P 08 38.50 -0.1
 0.7s 25.00nm 5.5mb
 PMR 65.07 28 P 09 16.00 -1.6
 0.8s 6.47nm 4.7mb
 HYB 65.54 283 eP 09 21.50 0.0
 FBA 66.59 25 P 09 25.40 -2.0
 0.8s 6.47nm 4.7mb
 GBA 67.21 279 Pd 09 34.70 2.6X
 0.9s 5.00nm 4.5mb
 INK 72.80 23 eP 10 04.50 -0.7
 MBC 76.95 14 ePd 10 28.40 -0.5
 0.7s 15.00nm 5.1mb
 MAIO 79.59 305 eP 10 32.00 -12.3X
 GMW 79.65 44 P 10 44.70 0.5
 pP 11 00.00 54km
 RMW 80.33 43 P 10 48.00 0.1
 pP 11 03.50 55km
 LON 80.45 44 P 10 47.90 -0.7
 pP 11 02.50 51km
 WDC 81.12 50 eP 10 52.40 0.3
 eP 11 08.00 55km
 YKA 81.16 28 P 10 51.90 0.1
 YKC 81.22 28 ePd 10 52.00 -0.2
 PNT 81.39 41 eP 10 53.00 -0.4
 0.8s 21.00nm 5.2mb
 MIN 81.87 51 eP 10 55.70 -0.5
 eP 11 11.40 55km
 BKS 81.90 53 e(P) 10 56.80 0.6
 0.9s 29.00nm 5.3mb
 ORV 82.11 51 eP 10 57.40 0.1
 eP 11 12.80 54km
 ALE 82.25 4 eP 10 57.00 -0.2
 0.9s 11.00nm 4.9mb
 MHC 82.47 53 eP 11 00.00 0.6
 eP 11 15.40 54km
 ARN 82.55 53 P 11 00.00 0.3
 pP 11 15.00 52km
 PRS 82.90 54 eP 11 02.20 0.7

CMB 83.29 53 eP 11 03.90 0.4
 eP 11 19.30 54km
 PRI 83.50 54 eP 11 05.20 0.5
 eP 11 20.90 55km
 PHAM 83.78 55 P 11 06.80 0.8
 pP 11 22.00 53km
 FRI 84.05 53 eP 11 07.50 0.2
 eP 11 23.00 54km
 SYP 84.42 56 eP 11 09.00 -0.4
 e 11 25.00 56km
 KVN 84.79 51 P 11 11.20 0.0
 pP 11 26.50 53km
 ISA 85.34 55 eP 11 13.00 -0.9
 TNP 85.71 52 P 11 16.00 0.2
 0.8s 4.66nm 4.7mb
 CLC 85.99 54 eP 11 18.00 0.9
 MWC 86.03 56 eP 11 18.00 0.5
 SBB 86.10 55 eP 11 18.00 0.3
 e 11 33.00 52km
 SES 86.46 39 iPd 11 17.60 -1.5
 0.6s 28.00nm 5.6mb
 RVR 86.64 56 eP 11 20.00 -0.2
 e 11 35.00 52km
 GSC 86.75 55 eP 11 36.00 15.1X
 PEC 86.84 56 P 11 21.00 -0.2
 pP 11 36.70 55km
 LRM 86.97 44 eP 11 22.00 0.1
 e 11 36.50 50km
 BAR 87.55 57 eP 11 25.00 0.3
 TPC 87.67 56 eP 11 25.00 -0.3
 DAG 88.57 357 iPc 11 27.80 -0.9
 0.9s 5.88nm 4.9mb
 GLA 88.94 56 eP 11 32.00 0.6
 BW06 89.91 46 P 11 35.50 -0.5
 pP 11 51.30 55km
 FFC 90.00 33 eP 11 36.00 0.2
 1.0s 17.00nm 5.3mb
 SUF 90.50 337 eP 11 36.00 -2.0
 ALO 94.91 52 eP 11 58.00 -1.1
 1.0s 2.50nm 4.6mb
 KIC 145.15 304 PKP 18 15.04 0.0
 0.8s 52.00nm
 TIC 145.20 305 PKP 18 15.08 0.0
 LIC 145.46 305 PKP 18 15.96 0.4
 0.8s 73.00nm
 ZOBO 146.13 98 PKP 18 19.30 2.0
 LPB 146.17 98 PKP 18 20.00 2.8X
 1.0s 24.00nm
 CNCB 146.29 99 PKP 18 20.20 2.7X
 CCH 148.05 100 PKP 18 26.80 6.8X
 S.D. = 0.8 on 71 of 79 obs.

FEB 26, 1989 10h 12m 29.21±0.34s

4.852 S ± 5.1km 76.748 W ± 8.5km

DEPTH = 33.0km (normal)

4.8mb (10 obs.)

NORTHERN PERU (111)

PURC 7.14 3 eP 14 14.50 0.0
 SALC 7.77 0 eP 14 22.70 -0.4
 DIAC 8.11 4 eP 14 28.80 1.0
 HOQC 8.27 1 eP 14 29.30 -0.8
 ANCC 8.31 359 eP 14 31.30 0.8
 CLMC 8.68 1 eP 14 36.20 0.5
 HOBC 9.17 4 eP 14 42.90 0.5
 ZOBO 14.16 144 eP 15 48.00 -2.1
 Z 20s 0.23um
 LR 22 00.00
 LPB 14.38 144 eP 16 00.00 7.1X
 CNCB 14.67 145 eP 15 58.00 1.2
 i 16 05.00
 CCH 16.21 141 eP 16 21.00 4.4X
 ATB 24.51 87 e(P) 17 46.20 -0.8
 PRM 39.09 353 P 19 55.60 0.5
 JSC 39.15 354 P 19 56.00 0.4
 GBTN 40.91 351 P 20 09.70 -0.4
 BLA 41.99 356 P 20 19.90 1.0
 0.7s 23.39nm 5.0mb
 NAV 42.12 355 P 20 20.70 0.7
 OLY 42.46 342 P 20 21.80 -1.0
 CVL 42.64 358 P 20 24.80 0.5
 ELC 43.50 346 P 20 29.60 -1.7
 VVO 43.78 337 eP 20 33.60 0.0
 RLO 44.25 339 iP 20 37.00 -0.4

LNO 44.31 338 eP 20 31.30 -6.4X
 TUL 44.31 338 eP 20 37.40 -0.4
 0.9s 4.00nm 4.2mb
 SIO 44.36 337 e(P) 20 38.20 -0.1
 MEO 44.47 334 iPc 20 39.20 0.0
 0.5s 5.70nm 4.7mb
 FVM 44.47 345 P 20 38.00 -1.2
 PRIN 45.03 2 P 20 45.10 1.5
 TBR 45.83 3 P 20 51.00 1.1
 ACO 46.33 335 eP 20 54.70 0.7
 0.5s 4.10nm 4.6mb
 ALQ 48.46 327 eP 21 10.90 0.0
 0.9s 18.49nm 5.1mb
 GLD 51.55 332 P 21 34.50 0.0
 1.1s 12.05nm 4.8mb
 GOL 51.58 332 P 21 34.60 -0.2
 GLA 52.18 319 P 21 39.70 0.5
 DAU 55.06 328 P 22 00.60 0.0
 BW06 55.96 331 P 22 06.00 -1.0
 0.9s 5.35nm 4.6mb
 BCH 56.94 318 P 22 14.00 0.0
 KVN 58.01 323 P 22 21.10 -0.4
 SCH 60.03 7 eP 22 35.00 0.0
 ORV 60.41 321 P 22 38.00 0.1
 LBFM 61.71 323 P 22 46.10 -0.9
 SES 62.46 336 ePc 22 49.40 -2.2
 LON 64.98 328 P 23 07.80 -0.4
 RMW 65.42 328 P 23 10.00 -1.0
 PNT 65.52 331 eP 23 12.00 0.5
 0.7s 5.00nm 4.7mb
 GMW 66.00 328 P 23 14.00 -0.6
 FRB 68.69 4 ePc 23 30.20 -1.0
 KIC 72.74 82 P 23 56.70 0.0
 YKA 73.09 343 P 23 57.50 -0.3
 INK 82.82 342 ePc 24 51.30 0.1
 MBC 84.61 351 eP 25 01.00 0.9
 SPA 85.18 180 e(P) 25 04.00 0.6
 1.0s 10.50nm 5.0mb
 DAG 87.71 11 iPc 25 15.80 0.4
 0.6s 6.00nm 5.0mb
 CTA 131.02 238 ePd 28 34.00 2.7
 e 29 22.00
 WRA 140.74 230 PKPd 31 57.30 -1.0
 0.7s 1.80nm
 MTN 147.19 237 iPKPc 32 11.50 2.1
 SSE 148.92 329 ePKP 32 15.50 3.8X
 MBL 149.46 212 iPKPd 32 16.70 3.9X
 GKN 150.96 36 PKP 32 21.70 6.6X
 0.8s 45.00nm
 KKN 151.49 35 PKP 32 23.00 7.0X
 0.7s 23.00nm
 DMN 151.52 35 PKP 32 22.90 6.8X
 PKI 151.73 35 PKP 32 23.00 6.5X
 GBA 153.10 69 PKPd 32 25.50 7.2X
 0.6s 1.70nm
 S.D. = 1.0 on 53 of 63 obs.

FEB 26, 1989 10h 13m 43.68±0.72s

44.592 N ± 7.7km 18.518 E ± 10.5km

DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)

MG 3.6 (BEO).

BEO 1.40 80 ePn 14 07.20 -2.0
 iSg 14 26.80
 UZD 2.00 1 eP 14 53.30 35.4X
 HVAR 2.06 227 iP 14 17.90 -0.8
 PTJ 2.23 307 eP 14 26.70 5.4X
 VBY 2.49 293 ePn 14 29.00 4.2X
 iSn 15 05.00
 SDA 2.67 164 ePn 14 32.10 4.6X
 LACI 3.08 163 ePn 14 47.30 14.1X
 SRO 3.23 358 iP 14 36.70 1.4
 e 14 53.90
 i 15 36.50
 PHP 3.23 153 ePn 14 35.50 0.2
 DEV 3.36 66 iPc 14 46.00 8.8X
 SKO 3.38 148 ePn 14 37.00 -0.5
 e 14 49.00
 iSn 15 38.80
 SOP 3.38 337 eP 14 37.00 -0.5
 TIR 3.39 163 ePn 14 47.00 9.3X
 ZST 3.74 345 e(P) 14 43.00 0.4
 i 14 50.50
 i 15 40.80
 VKA 3.98 338 e(P) 14 51.00 5.0X
 1.5s 169.00nm

26d 10h

| | | | | | | |
|----------------------------|------|-----|---------|----|-------|-------|
| | | | i | 14 | 56.00 | |
| | | | e | 16 | 18.70 | |
| KBA | 4.39 | 306 | e(P) | 15 | 08.00 | 16.0X |
| | 1.0s | | 14.10nm | | | |
| | | | e | 15 | 15.00 | |
| | | | i | 15 | 46.80 | |
| VAY | 4.42 | 136 | ePn | 14 | 54.40 | 2.1 |
| MLR | 5.34 | 78 | eP | 15 | 28.00 | 22.5X |
| KRA | 5.55 | 10 | ePd | 15 | 47.60 | 39.3X |
| | | | e | 15 | 58.10 | |
| KHC | 5.66 | 325 | P | 15 | 09.70 | -0.2 |
| | | | e | 15 | 18.20 | |
| PRU | 6.04 | 335 | eP | 16 | 07.50 | 52.4X |
| | | | e | 17 | 15.50 | |
| KSP | 6.43 | 347 | e(P) | 15 | 31.00 | 10.3X |
| | | | e | 16 | 47.00 | |
| MOX | 7.64 | 325 | e(P) | 15 | 49.00 | 11.3X |
| | | | e | 17 | 45.00 | |
| S.D. = 1.4 on 9 of 23 obs. | | | | | | |

* FEB 26, 1989 11h 08m 49.40±2.03s
 35.467 S ±18.3km 71.006 W ±12.4km
 DEPTH = 89.3 ±11.4 km
 4.4mb (6 obs.)

CENTRAL CHILE (136)

| | | | | | |
|-----------------------------|--------|-----|--------|----------|------|
| CHCH | 1.56 | 11 | iPc | 09 16.50 | 0.2 |
| TACH | 1.81 | 2 | iPc | 09 19.50 | -0.1 |
| SAN | 2.03 | 8 | iPc | 09 22.70 | 0.2 |
| | | | iS | 09 42.00 | |
| LCCH | 2.04 | 347 | iPc | 09 22.00 | -0.7 |
| FCH | 2.21 | 16 | iPc | 09 26.20 | 0.9 |
| | | | iS | 09 51.30 | |
| PEL | 2.33 | 7 | iPc | 09 27.00 | 0.3 |
| JACH | 2.80 | 7 | iPd | 09 33.00 | -0.1 |
| RTCV | 4.14 | 30 | ePc | 09 52.00 | 0.4 |
| | | | S | 10 39.50 | |
| ZON | 4.37 | 27 | eP | 09 54.00 | -0.7 |
| RTLL | 4.64 | 28 | ePc | 09 58.30 | -0.2 |
| | | | S | 10 49.00 | |
| RTRS | 5.44 | 14 | iPc | 10 08.90 | -0.7 |
| | | | S | 11 08.20 | |
| CNCB | 18.78 | 9 | P | 13 05.00 | 0.0 |
| LPB | 19.03 | 9 | P | 13 09.00 | 1.4 |
| ZOBO | 19.29 | 8 | P | 13 11.00 | 0.5 |
| BAO | 28.53 | 52 | e(P) | 14 43.00 | 4.3X |
| PRM | 70.00 | 350 | P | 19 52.00 | -1.1 |
| PWLA | 71.87 | 345 | P | 20 03.30 | -1.0 |
| ELC | 74.34 | 345 | P | 20 17.80 | -0.9 |
| MEO | 74.48 | 337 | eP | 20 18.20 | -1.4 |
| | 1.0s | | 5.30nm | 4.4mb | |
| TUL | 74.67 | 339 | eP | 20 19.60 | -1.1 |
| | 0.8s | | 5.90nm | 4.5mb | |
| LNO | 74.67 | 339 | eP | 20 19.80 | -0.7 |
| KIC | 74.75 | 71 | P | 20 22.00 | 0.4 |
| | 0.5s | | 7.00nm | 4.8mb | |
| FVM | 75.27 | 344 | P | 20 23.40 | -0.6 |
| ALO | 77.47 | 331 | eP | 20 37.00 | 0.4 |
| | 1.0s | | 5.00nm | 4.3mb | |
| GOL | 81.24 | 334 | P | 20 57.40 | 0.5 |
| TNP | 84.78 | 325 | P | 21 16.50 | 1.5 |
| | 0.8s | | 3.53nm | 4.4mb | |
| BW06 | 85.46 | 333 | P | 21 18.40 | 0.1 |
| | 0.7s | | 3.29nm | 4.4mb | |
| KVN | 85.97 | 325 | P | 21 21.90 | 1.0 |
| HPI | 87.62 | 331 | P | 21 30.00 | 1.1 |
| LBFM | 89.56 | 324 | P | 21 39.50 | 1.4 |
| GBA | 144.22 | 119 | PKP | 28 16.00 | -0.8 |
| S.D. = 0.9 on 30 of 31 obs. | | | | | |

* FEB 26, 1989 11h 52m 54.12±1.78s
 0.202 S ±13.3km 123.652 E ±17.9km
 DEPTH = 154.4 ±16.0 km
 3.8mb (1 obs.)

MINAHASSA PENINSULA (265)

| | | | | | |
|-----|-------|-----|---------|----------|-------|
| PCI | 3.88 | 260 | ePd | 53 53.20 | -0.4 |
| | | | eS | 54 12.00 | |
| AAI | 5.71 | 127 | iPd | 55 12.50 | 54.6X |
| TSM | 7.10 | 308 | ePc | 54 37.00 | 0.4 |
| MBL | 21.16 | 190 | eP | 57 29.00 | 0.6 |
| WB5 | 22.20 | 152 | eP | 57 39.10 | 0.6 |
| WRA | 22.24 | 153 | Pc | 57 39.10 | 0.1 |
| | 0.5s | | 2.10nm | 3.8mb | |
| QIS | 25.55 | 143 | eP | 58 10.00 | -0.4 |
| CTA | 29.67 | 133 | iPd | 59 02.30 | 14.8X |
| | 0.3s | | 29.87nm | | |

| | | | | | |
|-----------------------------|-------|-----|-----|----------|------|
| CHG | 30.75 | 309 | eP | 58 57.00 | -0.1 |
| FORR | 30.77 | 173 | iPc | 58 56.20 | -0.8 |
| KKN | 46.14 | 310 | P | 01 05.00 | -0.2 |
| GKN | 46.73 | 310 | P | 01 09.40 | -0.4 |
| HYB | 47.71 | 294 | eP | 01 18.00 | 0.6 |
| S.D. = 0.6 on 11 of 13 obs. | | | | | |

FEB 26, 1989 12h 21m 11.23±0.34s
 9.673 N ±3.6km 84.184 W ±3.3km
 DEPTH = 22.5 ±2.5 km
 4.6mb (10 obs.) 4.8Msz (3 obs.)

COSTA RICA (78)

MD 4.7 (SJR), 4.4 (HDC). Minor damage (VII) and some landslides in the Guaitil-San Marcos area. Felt (V) at San Jose, in the Central Valley and along the Pacific coast between Herradura and Quepos.

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
 L.P.B.: 12S, 25C
 Centroid Location:
 Origin Time 12:21:20.6 0.7
 Lat 9.87N 0.06 Lon 84.66W 0.09
 Dep 37.5 5.9 Half-duration 1.7
 Moment Tensor: Scale 10¹⁶ Nm
 Mrr=-0.37 0.56 Mtt=-7.87 0.59
 Mff=8.24 0.90 Mrt=-0.67 1.18
 Mrf=-2.72 1.09 Mtf=9.93 0.66
 Principal Axes:
 T Vol=13.51 Plg=11 Azm=115
 N -0.88 78 309
 P -12.63 3 206
 Best Double Couple: Mo=1.3×10¹⁷
 NP1: Strike=251 Dip=80 Slip=6
 NP2: 160 84 170

| | | | | | |
|------|-------|-----|----------|----------|-------|
| LCR2 | 0.19 | 69 | iP | 21 16.60 | -0.2 |
| OCR | 0.23 | 175 | iP | 21 16.90 | -0.1 |
| | | | S | 21 20.40 | |
| QPS | 0.27 | 169 | iPd | 21 17.30 | -0.4 |
| SJS | 0.29 | 26 | iP | 21 18.40 | 0.3 |
| | | | S | 21 23.20 | |
| HDC2 | 0.35 | 9 | iPd | 21 19.50 | 0.5 |
| IRZ2 | 0.41 | 44 | iPd | 21 20.40 | 0.3 |
| CDM | 0.43 | 106 | iPc | 21 20.30 | -0.2 |
| ICR | 0.46 | 49 | iP | 21 21.20 | 0.2 |
| SRA | 0.48 | 327 | iP | 21 20.95 | -0.2 |
| POA2 | 0.51 | 353 | iPd | 21 22.20 | 0.6 |
| EPA | 0.51 | 308 | iPc | 21 20.70 | -0.8 |
| VPS2 | 0.52 | 354 | iP | 21 21.50 | -0.3 |
| | | | S | 21 28.50 | |
| CAO | 0.91 | 272 | iPc | 21 28.10 | -0.1 |
| VACR | 0.93 | 329 | iPc | 21 29.00 | 0.4 |
| JTS | 0.97 | 309 | iPc | 21 29.20 | -0.2 |
| IDC | 1.00 | 162 | iPd | 21 29.70 | -0.1 |
| JCR | 1.07 | 80 | iP | 21 26.90 | -3.9X |
| TIG | 1.08 | 126 | iPc | 21 31.30 | 0.3 |
| ACR | 1.43 | 135 | iP | 21 35.20 | -0.7 |
| JUD | 1.43 | 290 | iPc | 21 36.30 | 0.3 |
| CTCR | 1.60 | 119 | iPc | 21 39.40 | 0.7 |
| RIN3 | 1.62 | 313 | iPc | 21 39.70 | 0.9 |
| PBC | 1.68 | 138 | iPc | 21 39.40 | -0.3 |
| DVD | 2.11 | 126 | iPc | 21 45.60 | -0.2 |
| UPA | 4.64 | 98 | iPc | 22 21.90 | 0.1 |
| | 0.9s | | 788.24nm | | |
| TPX | 9.45 | 304 | eP | 23 33.30 | 4.2X |
| PSO | 10.84 | 141 | eP | 23 51.50 | 2.9X |
| BOG | 11.22 | 116 | eP | 23 58.00 | 4.2X |
| | | | eS | 26 36.00 | |
| BMG | 11.29 | 102 | eP | 23 51.00 | -3.5X |
| SDV | 13.40 | 92 | eP | 24 22.30 | -0.5 |
| | | | eS | 26 46.60 | |
| TOV | 14.19 | 88 | eP | 24 33.60 | 0.5 |
| | | | iS | 27 09.70 | |
| OXX | 14.24 | 302 | eP | 24 36.50 | 2.5X |
| CEOS | 15.65 | 91 | eP | 24 51.50 | -0.8 |
| MORO | 15.66 | 84 | eP | 24 51.60 | -0.8 |
| IISM | 15.77 | 307 | eP | 24 55.70 | 2.0 |
| IIT | 16.53 | 306 | (P) | 25 07.80 | 4.2X |
| GUAC | 16.67 | 87 | eP | 25 06.00 | 0.7 |
| ACX | 16.84 | 297 | eP | 25 12.50 | 5.2X |
| CAR | 17.01 | 86 | eP | 25 10.00 | 0.4 |
| LLAV | 17.13 | 86 | eP | 25 10.50 | -0.5 |
| OLLA | 17.13 | 87 | eP | 25 11.00 | -0.1 |

| | | | | | | |
|------|-------|-----|---------|----|-------|---------|
| III | 17.16 | 302 | eP | 25 | 12.50 | 1.0 |
| CRX | 17.83 | 305 | eP | 25 | 24.00 | 3.9X |
| SVB | 22.75 | 79 | eP | 26 | 17.21 | 3.9X |
| SVV | 22.79 | 79 | eP | 26 | 11.62 | -2.1 |
| SSV | 22.82 | 79 | eP | 26 | 16.17 | 2.2 |
| PRM | 24.35 | 4 | P | 26 | 29.00 | 0.3 |
| JSC | 24.64 | 6 | P | 26 | 31.00 | -0.4 |
| TKL | 25.87 | 1 | P | 26 | 44.00 | 0.9 |
| GBTN | 25.87 | 360 | P | 26 | 44.00 | 0.9 |
| BLA | 27.63 | 6 | P | 27 | 00.50 | 1.3 |
| VVO | 27.64 | 339 | e(P) | 27 | 02.30 | 3.0X |
| RLO | 28.15 | 341 | eP | 27 | 02.70 | -1.2 |
| TUL | 28.17 | 340 | eP | 27 | 02.90 | -1.2 |
| | 0.7s | | 5.20nm | | | 4.4mb |
| Z | 19s | | 1.13um | | | 4.5Msz |
| | | | e | 27 | 15.00 | |
| | | | LR | 35 | 00.00 | |
| LNO | 28.18 | 340 | iP | 27 | 02.90 | -1.1 |
| MEQ | 28.25 | 334 | eP | 27 | 04.00 | -0.9 |
| | 0.6s | | 6.40nm | | | 4.5mb |
| CVL | 28.65 | 9 | P | 27 | 09.00 | 0.6 |
| FVM | 28.74 | 350 | P | 27 | 07.50 | -1.7 |
| ARE | 28.84 | 154 | e(P) | 27 | 10.00 | -0.7 |
| ACO | 30.13 | 336 | eP | 27 | 20.50 | -1.2 |
| ZOBO | 30.28 | 148 | P | 27 | 24.70 | 0.8 |
| Z | 24s | | 1.38um | | | 4.5MszX |
| | | | LR | 34 | 04.00 | |
| LPB | 30.52 | 148 | P | 27 | 30.00 | 4.3X |
| | | | LR | 35 | 08.00 | |
| CNCB | 30.81 | 149 | P | 27 | 29.50 | 1.0 |
| CCH | 32.26 | 146 | P | 27 | 44.50 | 3.6X |
| ALO | 32.36 | 324 | eP | 27 | 40.10 | -1.4 |
| | 0.8s | | 5.41nm | | | 4.5mb |
| ATB | 34.35 | 110 | Pc | 27 | 58.50 | -0.2 |
| GOL | 35.37 | 331 | eP | 28 | 06.80 | -0.7 |
| | 1.1s | | 6.65nm | | | 4.5mb |
| GLA | 36.58 | 314 | eP | 28 | 19.00 | 1.4 |
| BAR | 37.71 | 312 | eP | 28 | 25.00 | -2.1 |
| TPC | 38.00 | 315 | eP | 28 | 31.00 | 1.5 |
| MSU | 38.14 | 323 | P | 28 | 30.00 | -0.8 |
| PLM | 38.19 | 313 | eP | 28 | 33.00 | 1.7 |
| RVR | 38.88 | 314 | eP | 28 | 43.00 | 6.1X |
| MWC | 39.49 | 313 | eP | 28 | 49.00 | 6.9X |
| SBB | 39.56 | 314 | eP | 28 | 43.00 | 0.4 |
| BW06 | 39.75 | 330 | P | 28 | 43.60 | -0.6 |
| | 1.0s | | 5.94nm | | | 4.3mb |
| CLC | 39.99 | 316 | eP | 28 | 48.00 | 1.9 |
| ISA | 40.52 | 315 | eP | 28 | 52.00 | 1.6 |
| TNP | 40.99 | 319 | P | 28 | 55.00 | 0.5 |
| | 0.7s | | 5.19nm | | | 4.4mb |
| KVN | 42.11 | 320 | P | 29 | 03.50 | -0.1 |
| PRS | 42.88 | 314 | eP | 29 | 10.60 | 0.8 |
| CMB | 43.06 | 317 | e(P) | 29 | 13.20 | 2.0 |
| BAO | 43.79 | 125 | eP | 29 | 12.00 | -5.4X |
| BKS | 44.24 | 316 | ePc | 29 | 26.90 | 6.2X |
| Z | 20s | | 1.50um | | | 4.9Msz |
| N | 20s | | 1.50um | | | |
| E | 20s | | 1.20um | | | |
| | | | e | 36 | 09.00 | |
| | | | eLR | 45 | 48.00 | |
| SES | 46.27 | 336 | eP | 29 | 35.00 | -1.8 |
| FFC | 47.11 | 346 | eP | 29 | 42.00 | -1.3 |
| | 1.3s | | 12.00nm | | | 4.8mb |
| VAO | 48.80 | 132 | eP | 29 | 55.10 | -1.9 |
| PNT | 49.31 | 330 | eP | 30 | 00.00 | -0.5 |
| | 0.7s | | 8.00nm | | | 4.9mb |
| ITA | 50.12 | 130 | eP | 30 | 06.60 | -0.8 |
| FRB | 55.13 | 8 | eP | 30 | 41.50 | -2.3 |
| YKC | 57.09 | 344 | eP | 30 | 55.00 | -3.0X |
| YKA | 57.14 | 344 | P | 30 | 56.20 | -2.1 |
| INK | 66.81 | 342 | eP | 32 | 02.00 | -0.9 |
| MBC | 69.21 | 352 | eP | 32 | 16.00 | -1.8 |
| | 0.5s | | 6.00nm | | | 5.0mb |
| FBA | 70.25 | 336 | eP | 32 | 23.80 | -0.6 |
| DAG | 75.11 | 13 | eP | 32 | 51.00 | -1.9 |
| TIC | 78.27 | 85 | P | 33 | 13.00 | 1.3 |
| LIC | 78.32 | 86 | P | 33 | 13.20 | 1.2 |
| KIC | 78.59 | 85 | P | 33 | 14.50 | 1.1 |
| DOU | 81.88 | 41 | Pc | 33 | 30.70 | 0.5 |
| MEM | 82.73 | 40 | P | 33 | 35.40 | 0.8 |
| WLF | 82.93 | 41 | Pc | 33 | 36.60 | 0.9 |
| KOGH | 83.05 | 85 | eP | 33 | 38.00 | 0.9 |
| LEGH | 83.17 | 85 | eP | 33 | 39.00 | 1.3 |
| NB2 | 84.22 | 29 | P | 33 | 41.60 | -0.5 |
| | 1.1s | | 9.00nm | | | 4.9mb |
| GRF | 86.18 | 40 | eP | 33 | 41.00 | -11.1X |
| | 1.0s | | 24.00nm | | | |

| Z | 20s | 0.40um | 4.8Msz |
|-----|------------|-------------------|----------------|
| MOX | 86.26 | 39 ePc | 33 53.00 0.5 |
| BRG | 87.66 | 39 e(P) | 34 00.20 1.0 |
| KHC | 87.80 | 41 iPc | 34 01.50 1.5 |
| KBA | 88.08 | 43 e(P) | 34 02.00 0.4 |
| ZST | 90.29 | 41 eP | 34 13.00 1.3 |
| KKN | 141.39 | 15 PKP | 40 41.70 -1.5 |
| WB5 | 141.45 | 250 ePKP | 40 39.60 -3.6X |
| WRA | 141.47 | 250 PKPd | 40 41.70 -1.5 |
| | 0.6s | 1.80nm | |
| SHL | 144.77 | 6 ePKP | 40 47.60 -1.4 |
| MTN | 145.24 | 261 iPKPd | 40 51.40 1.6 |
| | | e | 40 59.00 |
| HYB | 148.13 | 32 ePKP | 40 57.50 3.0X |
| | 1.2s | 64.30nm | |
| GBA | 150.55 | 39 PKP | 41 04.70 6.6X |
| MUN | 150.85 | 217 ePKP | 41 07.00 8.8X |
| CHG | 151.53 | 354 ePKP | 41 11.00 11.4X |
| KOD | 153.09 | 43 ePKP | 41 10.60 8.3X |
| | S.D. = 1.1 | on 96 of 121 obs. | |

FEB 26, 1989 12h 25m 02.33±0.33s
 9.646 N ± 2.9km 84.225 W ± 3.1km
 DEPTH = 11.3 ± 3.4 km
 COSTA RICA (78)
 MD 3.1 (SJR), 3.4 (HDC). Felt
 (III) at San Marcos, San Pablo
 and Guaitil. Also felt at San
 Jose, Heredia and Cartago.

| | | | |
|------|------------|------------------|----------------|
| QCR | 0.21 | 163 iP | 25 02.00 -5.0X |
| QPS | 0.26 | 159 iPc | 25 08.50 0.6 |
| SJS | 0.34 | 30 iPc | 25 09.90 0.5 |
| | | S | 25 12.90 |
| HDC2 | 0.39 | 14 iPd | 25 10.20 -0.2 |
| IRZ2 | 0.46 | 45 iPd | 25 11.80 0.0 |
| | | S | 25 19.50 |
| CDM | 0.46 | 101 iP | 25 11.70 -0.2 |
| SRA | 0.49 | 333 iP | 25 12.10 -0.2 |
| EPA | 0.50 | 313 iP | 25 12.40 -0.1 |
| ICR | 0.51 | 49 ePc | 25 13.00 0.1 |
| POA2 | 0.53 | 357 iPd | 25 12.70 -0.4 |
| CAO | 0.87 | 274 iPc | 25 19.40 0.5 |
| VACR | 0.93 | 332 iPd | 25 20.30 0.2 |
| JTS | 0.96 | 312 iP | 25 20.20 -0.3 |
| | | S | 25 35.00 |
| IDC | 0.99 | 159 iPd | 25 21.10 0.1 |
| | | S | 25 35.70 |
| TIG | 1.10 | 123 iPd | 25 23.30 0.4 |
| JCR | 1.11 | 79 eP | 25 19.00 -4.1X |
| JUD | 1.40 | 292 iPc | 25 28.00 0.2 |
| ACR | 1.44 | 133 iP | 25 26.60 -1.6 |
| RIN3 | 1.61 | 315 iPd | 25 31.50 0.7 |
| | | S | 25 54.10 |
| CTCR | 1.63 | 117 ePc | 25 31.40 0.2 |
| | | S | 25 55.00 |
| PBC | 1.69 | 136 iP | 25 32.50 0.6 |
| DVD | 2.13 | 124 e(P) | 25 38.60 0.4 |
| | S.D. = 0.6 | on 20 of 22 obs. | |

FEB 26, 1989 12h 27m 38.18±0.38s
 39.136 N ± 3.5km 24.518 E ± 3.6km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)
 ML 3.4 (ATH).

| | | | |
|------|------|----------|---------------|
| NEO | 1.02 | 280 ePn | 27 58.10 0.6 |
| | | eSn | 28 13.40 |
| PAIG | 1.02 | 321 ePb | 27 57.70 0.2 |
| ATH | 1.32 | 209 iPnd | 28 02.40 -0.2 |
| | | eSn | 28 21.80 |
| PRK | 1.37 | 85 ePn | 28 03.10 -0.1 |
| PLG | 1.49 | 327 ePn | 28 05.60 0.6 |
| EZN | 1.56 | 63 ePn | 28 05.80 -0.2 |
| LIT | 1.84 | 302 ePn | 28 09.20 -0.9 |
| SOH | 1.91 | 332 ePn | 28 10.20 -0.9 |
| | | eSn | 28 39.60 |
| THE | 1.91 | 322 ePn | 28 11.60 0.5 |
| | | eSn | 28 41.60 |
| SRS | 2.10 | 341 ePn | 28 12.70 -1.2 |
| RDO | 2.15 | 21 ePn | 28 15.00 0.4 |
| KNT | 2.37 | 329 ePn | 28 17.80 0.0 |
| KZN | 2.42 | 300 ePn | 28 18.60 0.1 |
| MMB | 2.52 | 346 iPd | 28 19.00 -0.9 |
| RZN | 2.55 | 3 iP | 28 21.00 0.5 |
| KDZ | 2.60 | 15 iP | 28 20.00 -1.0 |
| VAY | 2.64 | 326 ePn | 28 22.50 0.9 |

| | | | |
|-----|------|---------|---------------|
| ITM | 2.83 | 227 ePn | 28 24.60 0.4 |
| KKB | 2.94 | 339 iPc | 28 26.00 0.2 |
| DIM | 3.01 | 15 eP | 28 27.00 0.2 |
| DST | 3.22 | 80 ePn | 28 30.00 0.2 |
| VTG | 3.59 | 344 iP | 28 36.00 0.8 |
| SKO | 3.68 | 321 ePn | 28 35.00 -1.3 |
| VAM | 3.73 | 184 ePn | 28 36.90 -0.2 |
| MLR | 6.44 | 9 ePd | 29 16.50 1.0 |

S.D. = 0.7 on 25 of 25 obs.

? FEB 26, 1989 12h 31m 08.80±4.37s
 0.860 S ± 47.7km 150.353 E ± 14.5km
 DEPTH = 33.0km (normal)
 3.9mb (1 obs.)
 NEW IRELAND REGION (190)

| | | | |
|-----|------------|----------------|----------------|
| RAB | 3.77 | 151 iPc | 32 05.00 -1.1 |
| | | iS | 32 28.00 |
| LAT | 6.66 | 210 iPd | 32 47.50 0.6 |
| PAA | 7.45 | 137 eP | 32 59.00 0.9 |
| WB5 | 24.54 | 219 eP | 36 27.00 0.1 |
| WRA | 24.60 | 219 Pd | 36 26.90 -0.6 |
| | 0.4s | 1.30nm | 3.9mb |
| MBL | 35.97 | 234 eP | 38 24.30 15.6X |
| | S.D. = 1.2 | on 5 of 6 obs. | |

FEB 26, 1989 12h 39m 35.08±0.46s
 46.470 N ± 4.1km 13.186 E ± 4.1km
 DEPTH = 10.0km (geophysicist)
 AUSTRIA (546)
 MD 2.9 (KBA), 2.6 (TRI), 3.0
 (LJU).

| | | | |
|------|------------|------------------|----------------|
| BOO | 0.16 | 202 ePg | 39 38.00 -0.8 |
| BAD | 0.24 | 170 ePg | 39 40.50 0.3 |
| MPRI | 0.27 | 211 ePg | 39 40.80 0.1 |
| RBL | 0.27 | 96 P | 39 40.00 -0.7 |
| | | eSg | 39 44.40 |
| FVI | 0.31 | 294 P | 39 40.80 -0.6 |
| | | eSg | 39 47.80 |
| CSZ | 0.39 | 271 ePg | 39 42.60 -0.6 |
| DRE | 0.43 | 133 ePg | 39 43.50 -0.5 |
| KBA | 0.62 | 10 iPg | 39 46.40 -1.3 |
| | | iSg | 39 54.10 |
| VOY | 0.66 | 131 ePg | 39 47.60 -0.7 |
| | | eSg | 39 58.70 |
| VVI | 0.72 | 228 P | 39 51.00 1.7 |
| | | eSg | 40 01.70 |
| TRI | 0.86 | 152 ePg | 39 51.30 -0.3 |
| LJU | 1.03 | 114 ePg | 39 55.80 1.3 |
| | 0.4s | 145.00nm | |
| | | eSg | 40 11.60 |
| SCE | 1.16 | 300 iPg | 39 56.70 -0.2 |
| KHC | 2.68 | 6 Pn | 40 20.00 1.0 |
| | | Pg | 40 29.50 |
| | | Sg | 40 53.00 |
| WET | 2.69 | 356 iPd | 40 29.60 10.5X |
| PRU | 3.64 | 14 Pn | 40 33.80 1.2 |
| | | Pg | 40 43.00 |
| | | Sg | 41 16.50 |
| | S.D. = 1.0 | on 15 of 16 obs. | |

* FEB 26, 1989 12h 56m 06.90±2.08s
 2.225 N ± 8.0km 127.931 E ± 11.7km
 DEPTH = 69.0 ± 18.8 km
 5.3mb (9 obs.)

| | | | |
|-----------------------|-------|---------|---------------|
| MOLUCCA PASSAGE (266) | | | |
| MNI | 3.19 | 256 ePc | 56 55.90 0.2 |
| | | eS | 57 36.10 |
| TSM | 10.04 | 282 eP | 58 29.50 -1.3 |
| PMG | 22.37 | 121 eP | 01 06.00 5.5X |
| WB5 | 22.86 | 164 eP | 01 05.00 -0.3 |
| WRA | 22.91 | 164 Pc | 01 05.00 -0.8 |
| | 0.5s | 4.20nm | 4.1mb X |
| MBL | 24.56 | 198 eP | 01 21.80 0.1 |
| QIS | 25.37 | 154 iPd | 01 29.50 0.1 |
| | | e | 01 35.00 |
| LOE | 29.83 | 302 iPd | 02 10.00 0.1 |
| NST | 30.48 | 298 eP | 02 16.10 0.5 |
| WHN | 30.96 | 337 eP | 02 21.00 1.3 |
| GYA | 31.58 | 322 P | 02 27.00 1.6 |
| CHG | 32.83 | 302 iPc | 02 35.80 -0.4 |
| | 1.0s | 27.00nm | 5.0mb |
| KMI | 33.28 | 315 Pd | 02 42.50 2.1 |
| TIA | 35.27 | 345 eP | 02 55.20 -1.8 |
| XAN | 36.29 | 333 Pd | 03 05.10 -0.6 |

| | | | |
|-----|-------|---------|---------------|
| STK | 36.31 | 160 eP | 03 06.00 0.2 |
| CD2 | 36.56 | 324 eP | 03 08.00 0.0 |
| BRS | 37.94 | 143 iPc | 03 25.20 5.6X |
| TIY | 38.08 | 340 iPd | 03 21.70 1.0 |

| Z | 20s | 1.10um | 4.7Msz |
|-----|-------|----------|---------------|
| BJI | 39.12 | 346 eP | 03 28.00 -1.3 |
| SNY | 39.62 | 355 eP | 03 31.90 -1.4 |
| LZH | 40.40 | 329 eP | 03 41.50 1.4 |
| | 2.0s | 357.00nm | 5.9mb |
| HHC | 41.20 | 341 eP | 03 46.40 -0.1 |
| BWA | 41.23 | 154 eP | 03 48.90 2.1 |
| BTO | 41.50 | 339 eP | 03 49.00 0.1 |
| SHL | 41.73 | 307 eP | 03 51.30 0.1 |
| LSA | 44.33 | 312 P | 04 14.70 2.1 |
| GTA | 45.00 | 329 iPc | 04 18.80 1.4 |
| | | PcP | 05 58.00 |

| | | | |
|------|------------|------------------|----------------|
| PKI | 47.81 | 306 P | 04 40.00 -0.1 |
| | 0.6s | 14.00nm | 5.1mb |
| KKN | 48.01 | 306 P | 04 41.60 0.1 |
| | 0.6s | 23.00nm | 5.3mb |
| DMN | 48.08 | 306 P | 04 42.30 0.3 |
| | 0.8s | 45.00nm | 5.5mb |
| GKN | 48.61 | 306 P | 04 46.10 0.1 |
| | 0.8s | 40.00nm | 5.5mb |
| KOD | 50.73 | 281 eP | 05 03.50 0.9 |
| HYB | 50.76 | 291 eP | 05 02.70 0.3 |
| | 1.2s | 71.40nm | 5.6mb |
| GBA | 51.16 | 286 Pc | 05 02.50 -3.0 |
| | 0.8s | 14.30nm | 5.1mb |
| WMO | 54.64 | 325 iPd | 05 31.00 0.0 |
| NDI | 54.95 | 304 iPd | 05 32.00 -1.4 |
| POO | 55.36 | 291 eP | 05 35.50 -1.0 |
| QUE | 63.96 | 303 eP | 06 35.00 -0.7 |
| MAIO | 71.37 | 308 eP | 07 22.00 0.2 |
| INK | 91.11 | 22 eP | 09 04.00 -0.9 |
| DAG | 98.91 | 353 iPc | 09 39.40 -0.9 |
| | 0.7s | 4.11nm | 5.1mb |
| GOL | 115.86 | 43 ePKP | 14 54.80 10.7X |
| | 0.8s | 3.17nm | |
| ALQ | 117.13 | 49 ePKP | 14 46.00 -0.5 |
| | S.D. = 1.1 | on 41 of 44 obs. | |

FEB 26, 1989 14h 39m 17.36±0.27s
 9.662 N ± 2.6km 84.218 W ± 2.7km
 DEPTH = 10.7 ± 2.6 km
 COSTA RICA (78)
 MD 3.9 (SJR), 3.9 (HDC). Felt
 (IV) at San Marcos, San Pablo
 and Guaitil; (III) in the
 Central Valley. Also felt at San
 Jose, Heredia and Cartago.

| | | | |
|------|------------|------------------|-----------------|
| QCR | 0.23 | 166 iPc | 39 23.10 0.9 |
| | | S | 40 26.00 |
| LCR2 | 0.23 | 69 iPc | 39 22.50 0.1 |
| | | S | 39 25.10 |
| QPS | 0.27 | 162 iPd | 39 24.00 0.9 |
| SJS | 0.32 | 30 iPd | 39 24.20 0.1 |
| HDC2 | 0.37 | 14 iPd | 39 25.60 0.6 |
| CDM | 0.46 | 103 iPc | 39 26.80 0.0 |
| SRA | 0.48 | 332 iPc | 39 26.90 -0.2 |
| | | S | 39 33.00 |
| EPA | 0.49 | 311 iPc | 39 27.30 -0.1 |
| ICR | 0.50 | 50 iPd | 39 27.40 -0.2 |
| POA2 | 0.51 | 356 iPd | 39 28.20 0.3 |
| | | S | 39 36.30 |
| CAO | 0.87 | 273 iPc | 39 34.20 0.1 |
| VACR | 0.92 | 331 iPd | 39 35.00 0.0 |
| JTS | 0.96 | 311 iPc | 39 35.30 -0.2 |
| IDC | 1.00 | 160 iPd | 39 36.20 -0.1 |
| JCR | 1.10 | 80 iPd | 39 34.40 -3.6X |
| | | S | 39 46.00 |
| TIG | 1.10 | 124 ePc | 39 37.80 -0.2 |
| JUD | 1.40 | 291 iPc | 39 42.60 -0.3 |
| | | S | 40 02.70 |
| RIN3 | 1.60 | 315 iPc | 39 45.60 -0.2 |
| | | S | 40 07.60 |
| CTCR | 1.63 | 118 iPc | 39 45.90 -0.4 |
| PBC | 1.70 | 137 iPd | 39 23.60 -23.5X |
| DVD | 2.13 | 125 eP | 39 52.20 -1.1 |
| | | S | 40 26.60 |
| UPA | 4.67 | 98 iPc | 40 29.50 0.0 |
| | 0.5s | 42.25nm | |
| FRB | 55.14 | 8 eP | 48 52.00 0.2 |
| YKA | 57.14 | 344 P | 49 06.80 0.6 |
| | S.D. = 0.5 | on 22 of 24 obs. | |

26d 14h

? FEB 26, 1989 14h 41m 31.70±5.09s
39.889 N ±37.4km 20.397 E ±12.5km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)

LSK 0.30 31 iPg 41 36.90 -1.2
TPE 0.50 324 iPg 41 41.10 -0.8
KBN 0.80 23 ePg 41 46.50 -0.7
OHR 1.26 14 iPn 41 56.80 1.7
TIR 1.51 345 ePn 42 02.20 3.4X
PHP 1.80 1 ePn 42 03.50 0.6
VAY 2.19 48 ePn 42 08.30 -0.3
SKO 2.23 20 ePn 42 09.80 0.6
S.D. = 1.2 on 7 of 8 obs.

% FEB 26, 1989 15h 17m 03.66±1.64s
46.797 N ±23.5km 0.907 E ±7.3km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.3 (LDG).

LSF 0.70 142 Pg 17 17.70 0.3
Sg 17 27.40
MFF 0.75 255 Pg 17 18.30 0.0
Sg 17 30.00
TCF 1.03 119 Pn 17 22.40 -0.8
Pg 17 23.50
Sg 17 37.60
MAF 1.28 116 Pg 17 27.80 0.3
Sg 17 44.30
BGF 1.36 99 Pg 17 28.80 0.2
Sg 17 45.70
S.D. = 0.7 on 5 of 5 obs.

FEB 26, 1989 15h 56m 14.51±1.07s
34.140 N ±9.8km 26.199 E ±6.7km
DEPTH = 44.4 ±10.2 km
4.4mb (10 obs.)
CRETE (370)
MD 4.0 (ATH).

NPS 1.22 337 ePn 56 35.00 -0.4
KAP 1.62 29 ePb 56 43.50 2.4
VAM 2.08 308 ePn 56 49.80 2.3
KSL 3.40 54 ePn 57 07.60 1.1
ELL 3.99 48 iP 57 15.60 0.7
ITM 4.61 312 ePn 57 23.40 -0.2
KHL 4.96 32 eP 57 26.50 -2.0
CSS 5.94 80 eP 57 43.00 0.7
IKL 6.48 69 iP 57 49.50 -0.2
DSI 8.14 106 eP 58 11.00 -1.9
eS 59 37.50
PRNI 8.36 115 eP 58 14.00 -2.0
MBH 8.56 118 eP 58 17.50 -1.3
KHC 17.66 332 P 00 19.50 0.7
LPG 18.71 313 eP 00 32.60 0.7
BSF 19.97 319 eP 00 44.70 -1.1
CDF 20.06 321 eP 00 45.20 -1.5
0.9s 20.90nm 4.5mb
HAU 20.31 319 eP 00 47.30 -2.0
0.7s 5.20nm 4.0mb
AVF 21.40 313 eP 00 59.70 -0.6
0.8s 5.30nm 4.0mb
WLF 21.42 322 P 01 00.50 0.0
SSF 21.44 314 eP 00 59.70 -1.0
BGF 21.60 312 eP 01 03.50 1.1
0.7s 11.40nm 4.4mb
MEM 22.10 324 P 01 07.70 0.5
DOU 22.48 322 P 01 12.50 1.4
LDF 24.31 314 eP 01 28.10 -0.8
0.7s 14.10nm 4.6mb
FLN 24.60 314 eP 01 30.90 -0.8
LPF 24.62 312 eP 01 31.30 -0.6
0.7s 7.40nm 4.3mb
GRR 24.66 313 eP 01 31.50 -0.8
NUR 26.40 358 iP 01 49.40 1.0
SUF 28.60 360 eP 02 07.00 -1.3
NB2 28.60 345 P 02 06.60 -1.8
0.9s 2.50nm 3.9mb
EKA 29.36 325 P 02 15.00 -0.3
0.9s 8.70nm 4.4mb
KJF 30.10 1 eP 02 20.00 -1.7
BNG 30.40 195 ePc 02 26.90 2.1
0.2s 4.00nm 4.8mb
KIC 39.78 233 P 03 56.00 11.1X
GKN 49.85 80 P 05 07.00 1.4
DMN 50.38 81 P 05 11.20 1.4

KKN 50.46 80 P 05 11.60 1.3
FRB 61.98 330 eP 06 32.00 0.1
YKA 78.68 343 P 08 14.50 1.4
FFC 80.93 332 eP 08 27.00 1.7
0.9s 8.00nm 4.7mb
S.D. = 1.4 on 39 of 40 obs.

FEB 26, 1989 17h 02m 29.36±1.23s
2.213 N ±4.6km 126.588 E ±7.6km
DEPTH = 88.4 ±11.4 km
5.1mb (17 obs.)
MOLUCCA PASSAGE (266)

MNI 1.91 246 ePd 02 59.70 -1.1
eS 03 29.60
PCI 7.43 245 ePd 04 18.90 1.9
eS 04 43.50
TSM 8.73 283 ePd 04 35.30 0.4
MTN 15.63 163 eP 06 02.00 -3.9X
e 06 09.00
eS 09 00.00
KNA 17.98 173 eP 06 33.00 -2.1
0.7s 102.00nm 5.2mb
WB5 23.25 161 iPc 07 29.00 -0.7
eS 11 38.10
WRA 23.30 161 Pc 07 29.10 -1.1
0.7s 47.40nm 5.0mb
QIZ 23.41 317 eP 07 32.20 0.9
MBL 24.15 196 iPd 07 38.90 0.4
GZH 24.40 329 eP 07 42.00 1.1
QIS 25.98 151 iPc 07 54.60 -1.1
0.2s 22.00nm 5.3mb
NANU 26.89 203 eP 08 04.40 0.5
0.4s 6.00nm 4.5mb
PSI 27.64 272 eP 08 11.70 0.8
WARB 28.23 180 eP 08 07.00 -9.0X
LOE 28.71 303 iPc 08 20.00 -0.5
SSE 29.18 350 eP 08 25.00 0.5
1.1s 14.00nm 4.5mb
CTA 29.39 140 iPc 08 28.30 1.8
1.0s 15.00nm 4.6mb
e 11 08.50
MEKA 29.70 195 iPd 08 29.40 0.2
WHN 30.47 339 eP 08 36.50 0.6
CHTO 31.70 303 iP 08 46.80 -0.2
1.0s 35.00nm 5.1mb
MRWA 32.86 197 eP 08 57.10 0.2
FORR 32.91 178 iPd 08 56.80 -0.4
0.3s 50.00nm 5.0mb
COOL 33.32 189 eP 09 00.50 -0.4
KLB 34.65 193 eP 09 13.00 0.7
0.4s 11.00nm 5.1mb
MUN 35.40 195 eP 09 19.00 0.3
RMQ 35.67 145 iPd 09 27.10 6.1X
XAN 35.71 334 Pd 09 17.30 -4.0X
NWA0 36.05 193 eP 09 25.00 0.9
STK 36.78 158 iPd 09 30.20 0.0
TIY 37.65 341 eP 09 38.60 1.0
ADE 38.69 164 iPc 09 47.00 0.7
0.8s 52.24nm 5.5mb
BRS 38.76 141 iPd 09 46.20 -0.8
BJI 38.82 347 eP 09 47.50 0.2
SNY 39.53 356 eP 09 53.30 0.2
LZH 39.74 331 eP 09 55.50 0.4
1.0s 38.00nm 5.2mb
COO 40.56 145 eP 10 02.00 0.2
SHL 40.67 308 iP 10 02.10 -0.9
CN2 41.42 359 eP 10 08.00 -0.6
BWA 41.82 153 iPc 10 13.70 1.6
MDJ 42.31 3 eP 10 15.00 -0.9
CAN 42.83 153 eP 10 21.00 0.7
LSA 43.34 313 P 10 25.80 0.7
GTA 44.32 330 P 10 32.00 -0.5
PKI 46.74 307 P 10 51.10 -1.0
0.5s 14.00nm 5.1mb
KKN 46.94 307 P 10 52.90 -0.6
0.5s 20.00nm 5.2mb
DMN 47.00 307 P 10 53.80 -0.2
0.9s 64.00nm 5.5mb
GKN 47.54 307 P 10 57.40 -0.8
0.6s 27.00nm 5.3mb
HYB 49.51 291 eP 11 13.00 -0.3
GBA 49.88 286 Pd 11 13.60 -2.5
0.7s 4.10nm 4.6mb
NDI 53.84 304 iPc 11 44.60 -1.0
WMO 53.88 326 eP 11 47.00 1.2
MAIO 70.32 308 eP 13 36.00 0.3

KJF 91.89 334 eP 15 28.00 -0.7
SUF 92.83 333 eP 15 33.00 0.0
NUR 93.95 331 iP 15 42.50 4.3X
NB2 100.07 333 Pd diff 16 05.80 -0.3
0.9s 1.80nm 4.7mb
ZOBO 159.88 135 PKP 22 24.00 3.4X
S.D. = 0.9 on 51 of 57 obs.

FEB 26, 1989 18h 39m 35.68±0.54s
39.130 N ±5.4km 24.558 E ±5.2km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 3.1 (ATH).

NEO 1.05 280 iPbd 39 55.40 -0.1
ATH 1.33 210 iPbd 39 59.70 -0.5
eSb 40 18.40
PRK 1.34 85 ePb 40 00.50 0.2
PLG 1.51 326 ePb 40 03.20 0.4
EZN 1.53 63 ePn 40 02.90 -0.2
MMB 2.54 346 iP 40 23.00 5.4X
RZN 2.56 3 iPd 40 18.00 0.0
ITM 2.85 228 ePn 40 22.60 0.6
KKB 2.96 338 iP 40 23.00 -0.5
PGB 3.43 355 iPd 40 50.00 19.7X
VTS 3.61 344 eP 40 33.00 0.1
S.D. = 0.4 on 9 of 11 obs.

? FEB 26, 1989 19h 36m 17.66±4.20s
39.982 N ±19.2km 23.861 E ±32.7km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 2.3 (THE).

PAIG 0.15 248 ePg 36 20.90 -0.2
eSg 36 23.30
SOH 0.92 335 ePg 36 34.90 -0.4
eSg 36 46.90
LIT 1.06 277 ePg 36 37.90 0.3
eSg 36 52.80
SRS 1.15 350 ePb 36 39.30 0.1
eSb 36 54.50
KNT 1.39 328 ePb 36 43.30 0.3
eSb 37 02.60
S.D. = 0.4 on 5 of 5 obs.

FEB 26, 1989 20h 59m 25.49±0.27s
23.838 S ±8.4km 177.340 W ±6.8km
DEPTH = 25.6km (9 depth phases)
5.3mb (13 obs.)
SOUTH OF FIJI ISLANDS (171)

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 21C
Centroid Location:
Origin Time 20:59:29.5 1.2
Lat 23.93S 0.09 Lon 177.63W 0.10
Dep 24.6 5.0 Half-duration 1.4
Moment Tensor: Scale 10**16 Nm
Mrr=-5.88 0.37 Mtt=1.94 0.59
Mff=3.94 0.45 Mrt=-0.18 0.68
Mrf=-0.68 0.92 Mtf=1.20 0.40
Principal Axes:
T Val= 4.55 P1g= 4 Azm=115
N 1.38 1 25
P -5.93 86 280
Best Double Couple: Mo=5.2*10**16
NP1: Strike=206 Dip=41 Slip=-88
NP2: 24 49 -91

SGE 7.63 324 eP 01 20.40 2.4
DZM 15.04 274 iPc 03 11.70 13.5X
KRP 15.31 202 P 03 04.40 3.0
BRS 27.15 256 iPd 05 04.80 -3.9X
i 05 10.80 21km
i 05 16.20
RMO 30.75 258 eP 05 50.00 8.9X
1.0s 98.00nm 5.6mb
e 05 57.00 24km
CAN 31.29 241 eP 06 02.80 17.0X
BWA 31.58 243 eP 05 47.20 -1.2
CTA 33.91 269 iP 06 09.40 0.7
1.0s 83.00nm 5.6mb
e 06 15.80 22km
eS 11 35.00
PMG 36.79 287 eP 06 33.00 -0.3
1.0s 180.00nm 5.9mb

| | | | | | | | | | | | | | | | |
|------|--------|---------|----------|----|-------|--------|------|---------|-----|--------|-----|-------|----|-------|-------|
| WRA | 44.84 | 265 | Pc | 07 | 39.00 | -0.6 | 1.2s | 75.00nm | EZN | 1.54 | 62 | ePn | 14 | 32.00 | -0.1 |
| | 1.0s | 14.50nm | | | | 4.8mb | | | KZN | 2.45 | 300 | ePn | 14 | 45.00 | -0.3 |
| WARB | 50.49 | 255 | eP | 08 | 12.80 | -10.8X | IKL | 150.57 | 302 | iPKP | 19 | 16.00 | | | |
| NANU | 61.17 | 256 | iPd | 09 | 40.20 | -0.3 | MBH | 150.70 | 289 | iPKPd | 19 | 18.00 | | | 4.8X |
| SPA | 66.30 | 180 | e(P) | 10 | 20.00 | 6.2X | WIT | 150.91 | 355 | ePKP | 19 | 18.00 | | | 6.5X |
| | 1.0s | 15.00nm | | | | 5.1mb | | | | | | | | | 6.9X |
| ADK | 75.39 | 0 | eP | 11 | 06.70 | -1.6 | KSP | 151.04 | 342 | iPKPd | 19 | 17.70 | | | 6.3X |
| | 0.7s | 22.90nm | | | | 5.3mb | | | | | | | | | |
| MAW | 78.65 | 200 | eP | 11 | 26.00 | -0.4 | SPC | 151.16 | 336 | ePKP | 19 | 18.20 | | | 6.3X |
| SYP | 79.57 | 45 | eP | 11 | 33.00 | 0.9 | MLR | 151.32 | 325 | ePKPc | 19 | 18.00 | | | 5.8X |
| PRS | 79.82 | 43 | ePd | 11 | 33.90 | 0.6 | CLL | 151.43 | 346 | iPKP | 19 | 18.20 | | | 6.2X |
| | | | | | | 25km | | | | | | | | | |
| GCC | 79.88 | 42 | ePd | 11 | 33.90 | 0.4 | GPA | 151.56 | 312 | iPKP | 19 | 17.90 | | | 5.3X |
| BCH | 79.91 | 44 | P | 11 | 34.70 | 0.8 | BRG | 151.63 | 345 | ePKP | 19 | 12.30 | | | 0.0 |
| PRI | 80.14 | 43 | ePd | 11 | 35.90 | 0.8 | | | | | | | | | |
| | | | | | | 25km | | | | | | | | | |
| BRK | 80.26 | 41 | eP | 11 | 36.00 | 0.4 | | | | | | | | | |
| LLA | 80.27 | 43 | e(P) | 11 | 36.20 | 0.5 | CJR1 | 151.64 | 329 | ePKP | 19 | 19.50 | | | 7.0X |
| BKS | 80.28 | 41 | eP | 11 | 36.20 | 0.5 | WTS | 151.71 | 355 | ePKP | 19 | 18.00 | | | 5.7X |
| | 0.8s | 31.00nm | | | | 5.4mb | | | | | | | | | |
| MHC | 80.30 | 42 | ePd | 11 | 36.60 | 0.7 | | | | | | | | | |
| ARN | 80.37 | 42 | P | 11 | 36.80 | 0.6 | PRU | 152.29 | 343 | ePKP | 19 | 20.00 | | | 6.7X |
| MWC | 80.64 | 46 | eP | 11 | 38.00 | 0.1 | MOX | 152.35 | 348 | ePKP | 19 | 20.00 | | | 6.6X |
| BAR | 80.66 | 48 | eP | 11 | 37.00 | -0.8 | | | | | | | | | |
| PLM | 80.92 | 48 | eP | 11 | 40.00 | 0.6 | ENN | 153.00 | 355 | e(PKP) | 19 | 22.00 | | | 7.8X |
| RVR | 80.96 | 47 | eP | 11 | 39.00 | -0.3 | | | | | | | | | |
| SBB | 81.08 | 46 | eP | 11 | 40.00 | 0.0 | | | | | | | | | |
| FRI | 81.27 | 43 | eP | 11 | 40.90 | 0.0 | ZST | 153.12 | 338 | ePKP | 19 | 31.00 | | | 16.5X |
| CMB | 81.51 | 42 | ePd | 11 | 42.30 | 0.1 | MEM | 153.15 | 355 | PKP | 19 | 22.00 | | | 7.6X |
| ORV | 81.80 | 40 | ePd | 11 | 43.80 | 0.2 | KHC | 153.33 | 344 | ePKP | 19 | 10.50 | | | -4.4X |
| WDC | 81.86 | 39 | ePd | 11 | 43.30 | -0.6 | | | | | | | | | |
| | | | | | | 29km | GRF | 153.34 | 348 | e(PKP) | 19 | 23.00 | | | 8.2X |
| CLC | 81.90 | 45 | eP | 11 | 44.00 | -0.3 | SNF | 153.34 | 358 | PKPc | 19 | 34.00 | | | 19.3X |
| TPC | 81.91 | 47 | eP | 11 | 44.00 | -0.4 | DOU | 153.75 | 357 | PKP | 19 | 31.60 | | | 16.3X |
| GSC | 82.11 | 46 | eP | 11 | 46.00 | 0.6 | WLF | 154.08 | 355 | PKP | 19 | 24.40 | | | 8.6X |
| TNP | 83.50 | 44 | eP | 11 | 52.80 | 0.1 | BNG | 155.37 | 221 | iPKPc | 19 | 18.00 | | | -0.6 |
| | 1.0s | 22.50nm | | | | 5.3mb | | | | | | | | | |
| KVN | 83.54 | 42 | iP | 12 | 02.00 | 29km | | | | | | | | | |
| | | | | | | 0.1 | | | | | | | | | |
| GN2 | 85.30 | 322 | eP | 12 | 01.00 | -0.3 | | | | | | | | | |
| PSI | 85.35 | 275 | e(P) | 12 | 02.00 | -0.2 | | | | | | | | | |
| BMW | 85.38 | 34 | P | 12 | 02.00 | 0.2 | | | | | | | | | |
| LON | 86.30 | 35 | P | 12 | 05.00 | -1.3 | | | | | | | | | |
| RMW | 86.76 | 34 | P | 12 | 08.80 | 0.2 | | | | | | | | | |
| MSU | 86.99 | 45 | P | 12 | 10.40 | 0.3 | | | | | | | | | |
| PMR | 88.11 | 13 | eP | 12 | 14.30 | -0.3 | | | | | | | | | |
| | 0.8s | 8.60nm | | | | 5.1mb | | | | | | | | | |
| TTA | 88.11 | 10 | e(P) | 11 | 58.90 | -15.8X | NEO | 0.99 | 280 | ePn | 06 | 42.00 | | | 0.4 |
| BJI | 88.68 | 315 | eP | 12 | 16.50 | -1.3 | | | | | | | | | |
| DPW | 88.90 | 35 | eP | 12 | 19.00 | 0.2 | PAIG | 1.00 | 322 | ePn | 06 | 41.90 | | | 0.1 |
| | | | | | | 28km | ATH | 1.31 | 207 | iPnd | 06 | 46.10 | | | -0.9 |
| ALQ | 89.01 | 51 | eP | 12 | 19.50 | -0.3 | | | | | | | | | |
| | 1.1s | 14.56nm | | | | 5.2mb | PRK | 1.40 | 85 | ePn | 06 | 47.10 | | | -1.2 |
| PNT | 89.08 | 34 | eP | 12 | 20.00 | 0.4 | PLG | 1.47 | 327 | ePn | 06 | 49.60 | | | 0.3 |
| | 1.1s | 23.00nm | | | | 5.4mb | EZN | 1.58 | 64 | ePn | 06 | 51.50 | | | 0.6 |
| TIY | 89.95 | 312 | eP | 12 | 24.90 | 0.9 | SOH | 1.89 | 333 | ePn | 06 | 54.50 | | | -1.0 |
| LRM | 90.89 | 39 | eP | 12 | 28.80 | 0.4 | THE | 1.89 | 322 | ePn | 06 | 55.30 | | | -0.1 |
| BW06 | 90.98 | 43 | P | 12 | 28.00 | -0.8 | SRS | 2.09 | 341 | ePn | 06 | 56.70 | | | -1.6 |
| | 1.0s | 12.50nm | | | | 5.2mb | RDO | 2.16 | 22 | ePn | 06 | 59.80 | | | 0.5 |
| FBA | 91.36 | 12 | eP | 12 | 29.10 | -0.7 | KNT | 2.36 | 330 | ePn | 07 | 02.90 | | | 0.8 |
| IMA | 91.42 | 9 | eP | 12 | 30.00 | -0.2 | | | | | | | | | |
| | 1.4s | 17.40nm | | | | 5.2mb | KZN | 2.39 | 300 | ePn | 07 | 02.60 | | | -0.1 |
| CHG | 91.94 | 290 | eP | 12 | 34.90 | 1.5 | GRG | 2.42 | 319 | ePn | 07 | 02.80 | | | -0.2 |
| GOL | 92.12 | 47 | P | 12 | 34.00 | -0.2 | MMB | 2.52 | 347 | iPd | 07 | 04.00 | | | -0.4 |
| SES | 94.20 | 36 | eP | 12 | 42.00 | -1.2 | RZN | 2.55 | 4 | iPd | 07 | 05.00 | | | -0.1 |
| ZOBO | 100.23 | 113 | (Pd iff) | 13 | 13.00 | 0.9 | KDZ | 2.61 | 16 | iP | 07 | 05.00 | | | -0.7 |
| | | | | | | 46 | VAY | 2.63 | 327 | ePn | 07 | 06.50 | | | 0.6 |
| FRS | 122.44 | 203 | iPKPc | 18 | 19.50 | -0.9 | ITM | 2.81 | 227 | ePn | 07 | 09.40 | | | 0.9 |
| QUE | 123.03 | 291 | ePKP | 18 | 21.00 | -0.8 | KKB | 2.93 | 339 | eP | 07 | 11.00 | | | 0.8 |
| MAIO | 129.91 | 298 | ePKP | 18 | 34.00 | -0.8 | DST | 3.25 | 80 | ePn | 07 | 16.00 | | | 1.2 |
| KJF | 136.42 | 344 | iPKP | 18 | 45.00 | -1.1 | PGB | 3.42 | 356 | iPc | 07 | 27.00 | | | 9.8X |
| | 0.7s | 9.30nm | | | | 5.2mb | VTS | 3.58 | 345 | eP | 07 | 20.00 | | | 0.3 |
| SUF | 138.04 | 344 | iPKP | 18 | 47.60 | -1.7 | VAM | 3.73 | 184 | ePn | 07 | 21.50 | | | -0.2 |
| | 0.8s | 5.00nm | | | | 5.2mb | BBTK | 6.44 | 81 | eP | 08 | 27.00 | | | 26.8X |
| NB2 | 142.35 | 353 | PKP | 18 | 51.60 | -5.5X | | | | | | | | | |
| | 0.9s | 12.70nm | | | | 5.2mb | | | | | | | | | |
| UPP | 142.50 | 348 | iPKP | 18 | 51.80 | -5.5X | | | | | | | | | |
| LWI | 143.69 | 228 | iPKPc | 18 | 58.20 | -2.8 | | | | | | | | | |
| MUD | 147.07 | 353 | iPKP | 19 | 07.00 | 2.0 | | | | | | | | | |
| EKA | 148.25 | 6 | PKP | 19 | 09.00 | 2.0 | | | | | | | | | |
| | 1.0s | 21.20nm | | | | 5.2mb | | | | | | | | | |
| BHL | 149.53 | 297 | PKP | 19 | 14.00 | 4.2X | | | | | | | | | |
| HRI | 149.57 | 295 | iPKPd | 19 | 15.50 | 5.6X | NEO | 1.05 | 280 | iPnd | 14 | 24.30 | | | 0.0 |
| BBTK | 150.04 | 309 | iPKP | 19 | 15.50 | 5.0X | ATH | 1.32 | 210 | iPnd | 14 | 28.40 | | | -0.6 |
| DSI | 150.11 | 292 | iPKPd | 19 | 16.40 | 5.8X | | | | | | | | | |
| KRA | 150.56 | 337 | iPKPd | 19 | 16.00 | 5.3X | PRK | 1.34 | 84 | ePn | 14 | 29.40 | | | 0.1 |
| | | | | | | 5.3X | PLG | 1.51 | 326 | ePb | 14 | 31.80 | | | 0.1 |

26d 23h

SDA 4.76 308 ePn 55 54.00 3.5X
 ELL 4.90 118 iP 55 53.60 1.0
 KSL 5.04 125 ePn 55 55.40 1.0
 BCK 5.07 108 iP 55 53.20 -1.8
 LCI 5.19 285 P 55 54.40 -2.1
 BUC 5.39 12 eP 56 32.00 32.7X
 DRA 5.52 358 ePd 56 01.00 -0.2
 BRT 5.86 289 P 56 05.30 -0.7
 TLB 6.03 25 eP 56 10.00 1.7
 ISR 6.17 14 eP 56 11.00 0.7
 TDS 6.35 277 P 56 12.00 -0.9
 BEO 6.42 333 eSn 57 26.70
 (P) 56 16.50 2.7X
 i 56 38.80
 BBTk 6.42 81 eP 56 24.00 9.9X
 MLR 6.42 9 ePc 56 13.50 -0.5
 SOI 6.71 263 P 56 15.50 -2.4
 VRI 6.91 13 ePd 56 21.00 0.3
 MGR 6.98 281 P 56 22.00 0.3
 ATN 7.15 265 P 56 19.40 -4.7X
 BSS 7.23 285 P 56 30.60 -0.2
 CJR1 7.64 355 eP 56 30.00 -0.9
 MEU 7.82 258 P 56 29.20 -4.5X
 (Sn) 57 57.30
 SDI 8.54 291 P 56 43.00 -0.7
 PTJ 9.23 320 e(P) 56 52.00 -1.1
 SPC 10.49 344 eP 57 09.50 -1.0
 ZST 10.50 332 e(P) 57 12.10 1.6
 e 57 29.60
 KBA 11.36 318 eP 57 20.00 -2.5
 1.0s 23.20nm 5.5mb X
 i 57 22.70
 e 58 15.00
 KRA 11.37 345 eP 57 23.00 0.6
 KHC 12.68 325 iPc 57 40.00 0.0
 e 57 51.60
 BRG 13.88 331 e(P) 58 06.50 10.7X
 LPG 14.57 302 eP 58 05.40 0.1
 1.3s 39.70nm 4.9mb X
 CLL 14.58 330 eP 58 04.00 -1.1
 MOX 14.65 326 e(P) 58 13.00 7.0X
 MSL 15.00 95 eP 58 15.00 4.3X
 e 05 26.00
 CDF 15.48 312 eP 58 17.80 0.9
 BSF 15.48 310 eP 58 16.60 -0.4
 1.1s 16.60nm 4.2mb
 HAU 15.83 310 eP 58 21.80 0.4
 AKUR 16.75 153 eP 58 36.10 2.8
 AKUR 16.75 153 eP 58 38.50 5.2X
 WLF 16.76 315 Pc 58 41.70 8.5X
 SMF 16.86 303 eP 58 33.10 -1.5
 AGRW 17.00 153 eP 58 38.00 1.7
 LOR 17.06 305 eP 58 36.40 -0.7
 1.5s 62.60nm 4.5mb
 BHD 17.07 104 ePc 58 42.00 4.8X
 e 06 44.00
 AKSR 17.08 152 eP 58 39.00 1.6
 TAB 17.09 87 eP 58 45.00 7.4X
 SSF 17.22 304 eP 58 38.70 -0.3
 AVF 17.23 303 eP 58 39.90 0.8
 1.3s 57.70nm 4.5mb
 BGF 17.49 302 eP 58 42.40 0.0
 1.6s 124.30nm 4.8mb
 MAF 17.58 301 eP 58 44.70 1.2
 1.2s 39.80nm 4.4mb
 DOU 17.84 314 Pc 58 51.80 5.0X
 0.9s 27.50nm 4.4mb
 LDF 20.03 306 eP 59 14.20 1.5
 1.2s 55.90nm 4.8mb
 FLN 20.31 306 eP 59 16.50 0.8
 1.0s 45.60nm 4.8mb
 GRR 20.43 305 eP 59 16.30 -0.6
 0.9s 26.20nm 4.6mb
 LPF 20.45 304 eP 59 16.70 -0.4
 NB2 23.42 344 P 59 45.60 -1.2
 0.9s 23.80nm 4.7mb
 SUF 23.62 2 eP 59 48.00 -0.6
 IFR 24.46 266 iP 59 40.50 -16.8X
 EKA 24.55 320 P 59 59.00 1.2
 1.0s 23.60nm 4.8mb
 KJF 25.15 3 eP 00 00.50 -2.9X
 MAIO 27.72 85 eP 00 31.00 3.5X
 eS 05 16.00
 BNG 34.98 190 iPc 01 30.80 -0.7
 1.5s 13.00nm 4.6mb
 id 01 44.00
 TIC 41.90 227 Pc 02 30.04 0.8

1.3s 84.00nm 5.3mb
 KIC 41.97 227 Pc 02 30.66 0.8
 0.2s 84.00nm 6.1mb X
 LIC 42.24 227 Pc 02 33.04 1.0
 FRB 56.99 328 eP 04 25.00 0.4
 YKA 73.50 342 P 06 13.00 1.8
 FFC 75.87 331 eP 06 26.00 1.0
 1.0s 18.00nm 5.1mb
 S.D. = 1.0 on 90 of 112 obs.
 FEB 27, 1989 00h 20m 55.45 ± 0.33s
 39.145 N ± 3.4km 24.568 E ± 3.6km
 DEPTH = 8.0 ± 2.4 km
 4.0mb (1 obs.)
 AEGEAN SEA (365)
 ML 3.8 (ATH), 3.7 (THE).
 PAIG 1.04 319 ePn 21 14.80 -0.4
 NEO 1.06 279 ePn 21 15.20 -0.4
 PRK 1.33 85 ePn 21 20.40 0.3
 ATH 1.35 210 iPnd 21 19.60 -0.8
 eSn 21 38.50
 PLG 1.50 325 ePb 21 22.90 0.2
 EZN 1.52 63 ePn 21 21.50 -1.4
 LIT 1.87 301 ePn 21 26.30 -1.7
 SOH 1.92 331 ePn 21 27.60 -1.1
 THE 1.93 321 ePn 21 29.50 0.7
 eSn 22 02.60
 SRS 2.11 340 ePn 21 30.00 -1.4
 RDO 2.13 20 ePn 21 32.50 0.7
 KNT 2.39 328 ePn 21 34.80 -0.7
 eSn 22 16.50
 KZN 2.45 299 iPnd 21 36.80 0.4
 GRG 2.46 318 ePn 21 35.70 -0.8
 MMB 2.52 346 iPc 21 37.00 -0.4
 RZN 2.54 2 iPc 21 38.00 0.2
 VAY 2.66 325 ePn 21 39.50 0.2
 ITM 2.86 228 ePn 21 42.20 0.0
 KKB 2.94 338 iPc 21 43.00 -0.4
 PLD 2.96 2 eP 21 45.00 1.5
 DST 3.18 80 ePn 21 46.10 -0.7
 LSK 3.22 289 ePn 21 47.40 0.0
 KBN 3.24 298 ePn 21 49.00 1.4
 PGB 3.42 355 iPc 21 50.00 -0.1
 OHR 3.49 305 ePn 21 55.80 4.6X
 VTS 3.59 344 iP 21 53.00 0.3
 DMK 3.61 41 ePn 21 53.00 0.1
 SKO 3.69 321 ePn 21 54.00 -0.1
 VAM 3.74 185 ePn 21 56.20 1.4
 BERA 3.88 295 iPnc 22 00.10 3.5X
 ISK 3.94 59 eP 22 03.00 5.5X
 KHL 3.96 100 eP 21 59.00 1.1
 NPS 3.96 168 ePn 21 57.00 -0.9
 PHP 4.05 310 ePn 22 00.60 1.6
 PVL 4.11 8 eP 21 58.00 -1.8
 KAP 4.15 149 ePn 21 59.70 -0.7
 TIR 4.22 303 ePn 22 05.50 4.1X
 ALT 4.31 89 eP 22 02.00 -0.9
 GPA 4.57 74 eP 22 08.00 1.5
 BBTk 6.37 81 eP 22 42.80 10.7X
 MLR 6.42 9 ePc 22 32.50 -0.3
 VRI 6.91 13 ePc 22 40.00 0.6
 NB2 23.44 344 P 26 06.50 0.8
 0.9s 3.90nm 4.0mb
 S.D. = 1.0 on 38 of 43 obs.
 FEB 27, 1989 00h 35m 19.17 ± 3.86s
 23.354 S ± 39.0km 66.775 W ± 46.5km
 DEPTH = 251.3 ± 13.3 km
 JUJUY PROVINCE, ARGENTINA (128)
 HJA 1.27 84 iPd 35 56.10 -0.1
 CCH 5.97 6 eP 36 48.00 0.1
 CNCB 6.61 350 eP 36 57.00 0.8
 LPB 6.90 349 eP 36 59.00 -0.7
 ZOBO 7.16 350 P 37 03.00 -0.2
 0.5s 12.99nm 4.2mb X
 S 38 23.00
 VAO 18.22 93 eP 39 17.00 0.7
 BAO 19.29 70 eP 39 27.00 -0.3
 BMA 20.83 93 e(P) 39 42.00 -0.4
 S.D. = 0.7 on 8 of 8 obs.
 FEB 27, 1989 00h 46m 26.31 ± 0.62s
 39.146 N ± 5.8km 24.528 E ± 5.9km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)

ML 3.2 (ATH).

NEO 1.03 279 iPnd 46 45.90 0.2
 ATH 1.33 209 iPnd 46 50.10 -0.8
 eSn 47 09.40
 PRK 1.36 85 ePn 46 52.10 0.9
 PLG 1.48 326 ePn 46 53.10 0.0
 EZN 1.55 63 ePn 46 53.50 -0.4
 RDO 2.14 21 eP 47 02.60 0.1
 KZN 2.42 299 ePn 47 06.30 -0.3
 MMB 2.52 346 iPd 47 07.00 -0.9
 RZN 2.54 3 iPc 47 09.00 0.6
 VAY 2.64 326 ePn 47 11.40 1.8
 ITM 2.84 227 ePn 47 13.00 0.5
 KKB 2.93 338 iPd 47 14.00 0.2
 PGB 3.41 356 eP 47 19.00 -1.7
 VTS 3.58 344 eP 47 30.00 6.8X
 S.D. = 0.9 on 13 of 14 obs.
 FEB 27, 1989 01h 09m 42.45 ± 0.93s
 24.147 S ± 9.4km 66.889 W ± 10.9km
 DEPTH = 199.8 ± 9.2 km
 4.5mb (3 obs.)
 SALTA PROVINCE, ARGENTINA (129)
 HJA 1.65 56 iPd 10 19.00 1.3
 CCH 6.77 6 iPc 11 27.50 6.8X
 CNCB 7.37 352 iPd 11 29.20 0.2
 LPB 7.66 351 Pd 11 33.10 0.4
 0.8s 149.25nm 5.3mb X
 ZOBO 7.92 351 iPd 11 35.00 -1.3
 0.5s 81.82nm 5.2mb X
 PEL 9.56 200 iPd 11 56.00 -1.0
 ITB1 11.40 95 e(P) 12 29.80 9.1X
 ITB7 11.61 97 e(P) 12 29.50 6.1X
 VAO 18.30 90 iPc 13 43.70 -0.4
 i 13 47.80
 ITA 20.46 90 eP 14 05.70 -0.6
 e 14 07.80
 BMA 20.91 91 ePc 14 11.10 0.6
 e 14 13.70
 ATB 25.11 37 e(P) 14 48.40 -2.2
 FVM 65.64 340 iP 20 07.10 0.1
 1.0s 22.00nm 4.9mb
 KIC 67.70 72 P 20 20.00 -0.5
 ALO 69.72 326 eP 20 33.20 0.5
 0.9s 2.73nm 4.0mb
 KVN 79.03 322 eP 21 27.00 1.1
 BNG 87.64 84 iPd 22 11.90 2.1
 0.6s 6.00nm 4.6mb
 GBA 144.75 101 PKPd 28 57.40 -0.2
 S.D. = 1.2 on 15 of 18 obs.
 FEB 27, 1989 02h 07m 18.19 ± 2.44s
 16.244 N ± 12.7km 60.600 W ± 15.2km
 DEPTH = 10.0km (geophysicist)
 LEEWARD ISLANDS (92)
 ML 2.8 (FDF).
 DEG 0.45 279 ePc 07 27.48 0.2
 S 07 33.60
 SFG 0.57 271 eP 07 29.97 0.2
 MGG 0.76 245 ePd 07 33.83 0.8
 S 07 41.60
 SEG 0.88 280 eP 07 34.60 -0.5
 S 07 43.20
 PAG 1.06 259 eP 07 38.20 0.0
 S 07 52.90
 BBL 1.11 230 eP 07 38.76 -0.2
 S 07 54.10
 DPMT 1.24 218 eP 07 41.05 -0.1
 eS 07 58.28
 DTMT 1.24 216 eP 07 40.82 -0.4
 eS 07 58.28
 FDF 1.59 200 iPc 07 46.25 -0.3
 S 08 07.30
 MVM 1.70 190 eP 07 48.44 0.3
 S 08 10.80
 BIM 1.78 195 eP 07 49.41 0.2
 S 08 12.60
 S.D. = 0.4 on 11 of 11 obs.
 FEB 27, 1989 07h 45m 46.97 ± 1.86s
 23.090 N ± 9.6km 121.368 E ± 16.3km
 DEPTH = 10.0km (geophysicist)
 TAIWAN (244)

| | | | | | | | | | | | | | | | | | | | | |
|----------------|---------------------------------------|-------------------|--------|--------|-------|------|----------------|---------------------------------------|-------------------|--------|-------|-------|-------|-------|-------|-----|-----|-------|-------|------|
| TWF1 | 0.27 | 346 | iPd | 45 | 52.80 | 0.2 | NIIJ | 4.81 | 340 | P | 18 | 12.20 | -0.8 | KDC | 1.56 | 104 | iPc | 59 | 13.80 | -1.1 |
| | | | eS | 45 | 56.80 | | | S.D. = 1.1 | on | 5 of | 6 | obs. | | PDB | 1.75 | 19 | iP | 59 | 15.84 | -1.5 |
| TWG | 0.38 | 226 | iPd | 45 | 54.90 | 0.1 | | | | | | | | | | eS | 59 | 39.56 | | |
| | | | eS | 46 | 00.70 | | % FEB 27, 1989 | 12h | 18m | 11.15± | 1.96s | | ILIM | 2.29 | 31 | iP | 59 | 23.44 | -0.9 | |
| TKW | 0.83 | 282 | iPc | 46 | 02.90 | -0.1 | | 36.226 N ±15.9km | 140.131 E ±15.1km | | | | | | | eS | 59 | 49.06 | | |
| | | | eS | 46 | 14.90 | | | DEPTH = 48.3 ± 24.1 km | | | | | CNPM | 2.53 | 55 | eP | 59 | 26.99 | -0.5 | |
| TWD | 1.01 | 12 | ePc | 46 | 05.90 | -0.1 | | NEAR EAST COAST OF HONSHU, JAPAN(228) | | | | | NNL | 2.81 | 46 | eP | 59 | 31.34 | 0.1 | |
| | | | eS | 46 | 20.60 | | | | | | | | RDT | 2.86 | 30 | eP | 59 | 30.48 | -1.4 | |
| TWO | 1.28 | 338 | ePc | 46 | 10.70 | 0.0 | KAKJ | 0.04 | 121 | iPd | 18 | 18.70 | 0.1 | | | eS | 00 | 05.68 | | |
| | | | eS | 46 | 28.10 | | | S | | | 18 | 24.20 | | SVW | 2.98 | 357 | iPd | 59 | 30.50 | -3.0 |
| S.D. = 0.2 | on | 5 of | 5 | obs. | | | CHJJ | 0.94 | 259 | iPd | 18 | 27.40 | -0.7 | SPU | 3.47 | 27 | eP | 59 | 38.60 | -1.4 |
| | | | | | | | | S | | | 18 | 40.10 | | CRP | 3.52 | 26 | eP | 59 | 36.16 | -4.7 |
| % FEB 27, 1989 | 07h | 57m | 49.38± | 1.25s | | NIIJ | 1.36 | 318 | iP+ | 18 | 34.10 | 0.1 | SLKM | 3.52 | 46 | eP | 59 | 39.67 | -1.1 | |
| | 36.357 N ±10.3km | 140.157 E ± 9.7km | | | | | S | | | 18 | 53.60 | | CGLM | 3.59 | 26 | eP | 59 | 40.53 | -1.2 | |
| | DEPTH = 57.8 ± 15.8 km | | | | | MTMJ | 1.91 | 281 | P | 18 | 42.10 | 0.2 | SEW | 3.60 | 54 | eP | 59 | 40.26 | -1.6 | |
| | NEAR EAST COAST OF HONSHU, JAPAN(228) | | | | | YAMJ | 1.95 | 358 | P | 18 | 42.60 | 0.3 | | | | eS | 00 | 22.22 | | |
| | MG 3.7 (JMA). Felt (11 JMA) at | | | | | | eS | | | 19 | 07.60 | | SDN | 4.01 | 228 | eP | 59 | 40.00 | -7.3 | |
| | Mito and (1 JMA) at Utsunomiya. | | | | | IIDJ | 1.95 | 248 | P | 18 | 42.90 | 0.4 | PMS | 4.26 | 41 | eP | 59 | 48.80 | -2.0 | |
| | | | | | | | S | | | 19 | 07.30 | | MTU | 4.36 | 62 | iP | 59 | 50.96 | -1.2 | |
| KAKJ | 0.15 | 175 | iPd | 57 | 58.10 | -0.3 | OFUJ | 3.10 | 23 | eP | 18 | 58.40 | -0.3 | | | eS | 00 | 39.10 | | |
| | | | S | 58 | 04.30 | | S.D. = 0.6 | on | 7 of | 7 | obs. | | PWA | 4.46 | 36 | eP | 59 | 51.10 | -2.3 | |
| MIT | 0.26 | 85 | iP+ | 57 | 59.50 | 0.5 | | | | | | | KNIM | 4.47 | 57 | eP | 59 | 51.26 | -2.4 | |
| | | | iS | 58 | 07.00 | | & FEB 27, 1989 | 13h | 59m | 45.03s | | | PLRM | 4.65 | 39 | eP | 59 | 52.92 | -3.2 | |
| UTS | 0.30 | 309 | iPd | 57 | 59.30 | 0.0 | | 60.186 N | 152.956 W | | | | PMR | 4.65 | 39 | eP | 59 | 53.00 | -3.1 | |
| | | | iS | 58 | 06.60 | | | DEPTH = 119.2km | | | | | KNK | 4.77 | 44 | eP | 59 | 54.83 | -2.9 | |
| CHJJ | 0.99 | 252 | iPd | 58 | 06.50 | -0.8 | | SOUTHERN ALASKA | | (2) | | | TTA | 4.82 | 356 | eP | 59 | 54.90 | -3.5 | |
| | | | S | 58 | 19.00 | | | <AGS-P>. | | | | | MID | 4.84 | 71 | eP | 59 | 57.20 | -1.5 | |
| NIIJ | 1.28 | 314 | iPd | 58 | 11.30 | 0.0 | ILIM | 0.11 | 181 | iP | 00 | 01.09 | 1.0 | GHO | 4.85 | 39 | eP | 59 | 55.70 | -3.2 |
| YAMJ | 1.02 | 357 | P | 58 | 19.40 | 0.7 | | | | | | | GLI | 5.00 | 53 | eP | 59 | 57.91 | -3.0 | |
| | | | eS | 58 | 42.60 | | | | | | | | HIN | 5.05 | 60 | eP | 59 | 59.98 | -1.6 | |
| MTMJ | 1.91 | 278 | iPd | 58 | 20.20 | 0.0 | RDT | 0.48 | 35 | iP | 00 | 02.44 | -0.6 | SML | 5.08 | 41 | eP | 59 | 58.53 | -3.5 |
| IIDJ | 2.02 | 245 | iP+ | 58 | 22.40 | 0.7 | | | | | | | FID | 5.21 | 56 | iP | 00 | 01.06 | -2.7 | |
| | | | S | 58 | 47.30 | | PDB | 0.74 | 238 | iP | 00 | 03.97 | -0.9 | VZW | 5.32 | 53 | eP | 00 | 03.19 | -2.1 |
| OFUJ | 2.97 | 23 | P | 58 | 34.20 | -0.9 | | | | | | | VLZ | 5.45 | 53 | eP | 00 | 05.30 | -1.7 | |
| S.D. = 0.7 | on | 9 of | 9 | obs. | | | NNL | 0.84 | 99 | iP | 00 | 05.99 | 0.2 | CVA | 5.45 | 60 | eP | 00 | 05.06 | -2.0 |
| | | | | | | | NKA | 1.02 | 56 | iP | 00 | 08.42 | 1.0 | SGAM | 5.69 | 61 | iP | 00 | 08.45 | -1.9 |
| ? FEB 27, 1989 | 08h | 21m | 37.45± | 1.28s | | | | | | | | | KLU | 5.81 | 51 | eP | 00 | 09.34 | -2.7 | |
| | 42.783 N ±11.7km | 18.774 E ± 9.5km | | | | CNPM | 1.09 | 127 | eP | 00 | 07.62 | -0.6 | TOA | 6.05 | 45 | eP | 00 | 13.70 | -1.7 | |
| | DEPTH = 10.0km (geophysicist) | | | | | | eS | | | 00 | 24.86 | | GLB | 6.68 | 55 | iP | 00 | 21.64 | -2.3 | |
| | YUGOSLAVIA | (383) | | | | SPU | 1.09 | 24 | iP | 00 | 07.42 | -0.9 | FBA | 7.67 | 25 | eP | 00 | 32.50 | -4.8 | |
| | MD 2.2 (TTG). | | | | | | eS | | | 00 | 25.67 | | IMA | 7.99 | 5 | eP | 00 | 38.40 | -3.5 | |
| NKY | 0.17 | 80 | iPg | 21 | 42.50 | 1.2 | | | | | | | YKA | 20.36 | 60 | eP | 03 | 38.10 | 22.2 | |
| | | | eSg | 21 | 46.50 | | CRP | 1.15 | 20 | iP | 00 | 08.45 | -0.6 | FRB | 39.41 | 44 | ePc | 06 | 02.20 | -4.2 |
| BRY | 0.21 | 305 | iPg | 21 | 42.30 | 0.3 | | | | | | | | | | | | | | |
| | | | iPg | 21 | 42.30 | | CGLM | 1.22 | 22 | iP | 00 | 08.83 | -0.8 | | | | | | | |
| | | | iSg | 21 | 46.50 | | SLKM | 1.40 | 75 | eP | 00 | 10.58 | -1.0 | | | | | | | |
| TTG | 0.50 | 134 | ePg | 21 | 47.20 | -0.5 | | SVW | 1.61 | 306 | iP | 00 | 12.36 | -1.7 | | | | | | |
| | | | eSg | 21 | 55.70 | | | SEW | 1.76 | 91 | eP | 00 | 14.48 | -1.3 | | | | | | |
| PLE | 0.71 | 40 | ePg | 21 | 50.60 | -0.9 | | | | | | | | | | | | | | |
| | | | eSg | 22 | 01.70 | | PMS | 1.98 | 56 | iP | 00 | 17.25 | -1.4 | | | | | | | |
| S.D. = 1.6 | on | 4 of | 4 | obs. | | | | | | | | | | | | | | | | |
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| FEB 27, 1989 | 11h | 12m | 38.95± | 0.67s | | | | | | | | | | | | | | | | |
| | 40.068 N ± 6.2km | 27.815 E ± 5.2km | | | | | | | | | | | | | | | | | | |
| | DEPTH = 10.0km (geophysicist) | | | | | | | | | | | | | | | | | | | |
| | TURKEY | (366) | | | | | | | | | | | | | | | | | | |
| EDC | 0.28 | 8 | iPg | 12 | 45.00 | 0.2 | | | | | | | | | | | | | | |
| | | | iSg | 12 | 48.00 | | | | | | | | | | | | | | | |
| DST | 0.78 | 126 | iPg | 12 | 54.20 | 0.1 | | | | | | | | | | | | | | |
| | | | iSg | 13 | 05.20 | | | | | | | | | | | | | | | |
| EZN | 1.17 | 259 | ePn | 13 | 00.70 | -0.1 | | | | | | | | | | | | | | |
| YLV | 1.29 | 67 | iPn | 13 | 03.70 | 0.8 | | | | | | | | | | | | | | |
| ISK | 1.37 | 43 | ePn | 13 | 03.70 | -0.4 | | | | | | | | | | | | | | |
| GBZT | 1.44 | 59 | ePn | 13 | 04.40 | -0.6 | | | | | | | | | | | | | | |
| | | | iSg | 13 | 25.00 | | | | | | | | | | | | | | | |
| HRT | 1.60 | 61 | ePn | 13 | 07.00 | -0.4 | | | | | | | | | | | | | | |
| DMK | 1.75 | 359 | iPn | 13 | 09.10 | -0.4 | | | | | | | | | | | | | | |
| GPA | 1.92 | 83 | ePn | 13 | 12.40 | 0.3 | | | | | | | | | | | | | | |
| KHL | 2.19 | 142 | ePn | 13 | 21.00 | 5.0X | | | | | | | | | | | | | | |
| MLR | 5.59 | 346 | eP | 14 | 05.00 | 0.7 | | | | | | | | | | | | | | |
| S.D. = 0.6 | on | 10 of | 11 | obs. | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| ? FEB 27, 1989 | 11h | 17m | 01.14± | 16.60s | | | | | | | | | | | | | | | | |
| | 32.718 N ±105.5km | 141.018 E ±94.9km | | | | | | | | | | | | | | | | | | |
| | DEPTH = 33.0km (normal) | | | | | | | | | | | | | | | | | | | |
| | SOUTH OF HONSHU, JAPAN | (211) | | | | | | | | | | | | | | | | | | |
| | MG 3.4 (JMA). Felt (1 JMA) on | | | | | | | | | | | | | | | | | | | |
| | Hachijo-jima. | | | | | | | | | | | | | | | | | | | |
| HJJ | 1.10 | 291 | iP | 17 | 20.20 | -0.1 | | | | | | | | | | | | | | |
| | | | iS | 17 | 27.10 | | | | | | | | | | | | | | | |
| KAKJ | 3.55 | 349 | iP+ | 17 | 55.80 | 0.6 | | | | | | | | | | | | | | |
| CHJJ | 3.72 | 334 | iP+ | 17 | 57.00 | -0.6 | | | | | | | | | | | | | | |
| | | | S | 18 | 31.70 | | | | | | | | | | | | | | | |
| IIDJ | 3.77 | 318 | P | 18 | 02.20 | 3.8X | | | | | | | | | | | | | | |
| MTMJ | 4.68 | 326 | P | 18 | 12.30 | 0.9 | | | | | | | | | | | | | | |
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|-------------------------------------|------|-----|-----|----|--------------------|-------|--------------------|-------|-----|-------|-------|-----------------------------------|------|------|--------|-------|-------|-------|-------|------|-------|-----|
| 24 obs. associated | | | | | KKN | 46.88 | 276 | P | 06 | 41.00 | 0.2 | DEPTH = 144.3km (4 depth phases) | | | | | | | | | | |
| | | | | | DMN | 47.10 | 276 | P | 06 | 42.40 | -0.1 | 4.9mb (3 obs.) | | | | | | | | | | |
| | | | | | GKN | 47.32 | 277 | P | 06 | 44.20 | 0.1 | PERU-BOLIVIA BORDER REGION (118) | | | | | | | | | | |
| ? FEB 27, 1989 19h 06m 52.64± 1.16s | | | | | MTN | 49.06 | 192 | iPd | 06 | 56.80 | -0.6 | | | | | | | | | | | |
| 39.278 N ±11.6km 27.743 E ± 8.7km | | | | | FBA | 50.72 | 32 | eP | 07 | 10.50 | 0.9 | CNCB | 1.92 | 64 | iPd | 08 | 09.00 | 2.4 | | | | |
| DEPTH = 10.0km (geophysicist) | | | | | | 1.0s | | | | | | LPB | 1.97 | 55 | iPd | 08 | 09.00 | 2.0 | | | | |
| TURKEY (366) | | | | | WB5 | 55.57 | 187 | eP | 07 | 45.00 | -0.9 | S | | | | | 09 | 36.00 | | | | |
| DST | 0.76 | 64 | iPn | 07 | 07.30 | -0.2 | WRA | 55.63 | 187 | Pc | 07 | 44.70 | -1.6 | ARE | 2.02 | 306 | iPc | 08 | 07.10 | -0.4 | | |
| EDC | 1.07 | 5 | ePn | 07 | 13.00 | 0.2 | 0.6s 7.10nm 4.9mb | | | | | iS | | | | | 08 | 33.00 | | | | |
| EZN | 1.22 | 297 | ePn | 07 | 15.30 | -0.1 | HYB | 57.22 | 269 | iPd | 07 | 57.30 | -0.6 | ZOBO | 2.11 | 49 | iPd | 08 | 10.30 | 1.4 | | |
| KHL | 1.69 | 124 | ePn | 07 | 22.50 | 0.1 | 1.0s 25.00nm 5.3mb | | | | | Z | 18s | | 1.22um | | | | | | | |
| S.D. = 0.3 on 4 of 4 obs. | | | | | e | | | | | 08 | 19.50 | | iS | | | | | 08 | 40.00 | | | |
| | | | | | MBC | 58.06 | 16 | eP | 08 | 03.00 | 0.0 | LR | | | | | 09 | 20.00 | | | | |
| | | | | | MBL | 59.78 | 202 | eP | 08 | 14.90 | -0.5 | CCH | | | | | 3.49 | 86 | iPc | 08 | 29.00 | 2.9 |
| | | | | | GBA | 60.17 | 265 | Pd | 08 | 17.10 | -1.2 | HJA | | | | | 6.88 | 144 | ePc | 09 | 12.10 | 0.8 |
| | | | | | 0.8s 15.40nm 5.2mb | | | | | S | | | | | 10 | 30.00 | | | | | | |
| ? FEB 27, 1989 19h 19m 22.45± 4.00s | | | | | | | | | | | | | | | | | | | | | | |
| 31.363 S ±21.0km 68.797 W ±31.8km | | | | | | | | | | | | | | | | | | | | | | |
| DEPTH = 77.5 ± 45.6 km | | | | | | | | | | | | | | | | | | | | | | |

27d 21h

PEL 15.43 183 iPc 11 03.10 0.1
 FCH 15.60 182 eP 11 07.50 2.1
 ITB1 15.95 118 e(P) 11 07.50 -1.9
 ITB 16.15 119 e(P) 11 08.80 -3.2X
 ITB7 16.31 120 e(P) 11 08.30 -5.6X
 BAO 20.98 88 eP 12 03.50 -1.6
 VAO 22.03 108 eP 12 12.60 -2.9
 e 12 21.80 33kmX
 e 12 31.10

ATB 22.38 52 Pc 12 16.50 -2.2
 BMA 24.56 106 ePd 12 39.70 0.0
 e 12 51.10 44kmX
 e 12 31.10

FVM 58.66 341 iP 17 15.00 -1.0
 1.0s 31.00nm 5.2mb
 eP 17 50.00 148km

LIC 68.18 76 Pc 18 17.54 -1.3
 0.4s 35.00nm 5.6mb X
 68.34 75 P 18 18.95 -0.9
 KIC 68.49 76 Pc 18 19.74 -1.1
 0.6s 148.00nm 6.0mb X

BW06 70.40 330 eP 18 32.00 -0.2
 eP 19 07.00 143km
 TNP 71.11 322 iP 18 38.00 1.5
 0.9s 4.30nm 4.3mb
 eP 19 13.00 143km

SCH 72.23 2 eP 18 41.00 -1.6
 KVN 72.27 322 iP 18 43.80 0.4
 eP 19 19.00 143km

FRB 81.15 1 eP 19 27.00 -4.8X
 YKC 87.26 341 eP 20 03.00 0.4
 YKA 87.31 341 P 20 03.80 0.9
 BNG 89.74 85 ePd 20 15.80 0.3
 0.4s 5.00nm 4.9mb
 id 20 23.30 23kmX

WB5 135.79 214 ePKP 26 30.20 -7.4X
 GBA 148.20 93 PKP 27 04.00 4.6X
 0.9s 2.10nm

HYB 149.83 86 ePKP 27 07.70 5.8X
 S.D. = 1.6 on 24 of 30 obs.

? FEB 27, 1989 23h 25m 21.14±4.04s
 12.348 S ±42.2km 122.560 E ±19.4km
 DEPTH = 33.0km (normal)
 4.1mb (1 obs.)

SOUTH OF TIMOR (293)

KNA 6.91 120 eP 27 03.00 0.3
 eS 28 24.00
 MTN 8.38 94 eP 27 24.00 0.7
 eS 28 50.00

MBL 9.14 196 eP 27 35.40 1.6
 NANU 12.17 212 eP 28 14.00 -1.1
 0.4s 7.00nm 5.2mb X
 WB5 13.59 125 eP 28 33.30 -0.8
 eS 30 58.50

WRA 13.60 125 Pc 28 33.60 -0.6
 0.4s 1.30nm 4.1mb
 WARB 14.29 165 eP 28 35.00 -8.2X
 eS 31 16.00

MEKA 14.69 194 eP 28 51.50 3.1X
 S.D. = 1.3 on 6 of 8 obs.

FEB 27, 1989 23h 39m 10.82±0.35s
 2.301 N ±3.2km 128.009 E ±4.2km
 DEPTH = 53.7 ±3.1 km
 5.8mb (33 obs.)

HALMAHERA (267)

Ms 6.2 (BRK). At least six
 schools and a number of
 houses damaged in the Golela
 area. Two events about 2.5
 seconds apart, observed on
 broadband displacement
 seismograms.

FAULT PLANE SOLUTION: P-Waves
 NP1: Strike= 9 Dip=85 Slip= -45
 NP2: 104 45 -173
 Principal Axes:

T Plg=26 Azm= 65
 P 34 316

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

RADIATED ENERGY

No. of sta: 5 Focal mech. F
 Energy 8.0±3.0×10¹³ Nm

MOMENT TENSOR SOLUTION
 Dep 21 No. of sta: 13
 Moment Tensor: Scale 10¹⁸ Nm

Mrr=-0.54 Mtt= 0.69
 Mff=-0.15 Mrt=-0.54
 Mrf=-1.60 Mtf=-3.24

Principal axes:
 T Vol= 3.65 Plg=10 Azm= 44
 N 0.11 62 152
 P -3.76 26 309

Best Double Couple: Mo=3.7×10¹⁸
 NP1: Strike= 89 Dip=64 Slip=-168
 NP2: 354 79 -26

CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 40C M.W.: 12S, 22C

Centroid Location:
 Origin Time 23:39:13.4 0.2
 Lat 2.29N Fix; Lon 127.97E Fix
 Dep 22.8 1.6 Half-duration 6.0

Moment Tensor: Scale 10¹⁸ Nm
 Mrr=-0.25 0.05 Mtt=-0.36 0.04
 Mff= 0.61 0.05 Mrt=-2.15 0.28
 Mrf=-1.89 0.29 Mtf=-2.90 0.06

Principal Axes:
 T Vol= 3.07 Plg= 2 Azm= 51
 N 1.61 57 143
 P -4.67 33 320

Best Double Couple: Mo=3.9×10¹⁸
 NP1: Strike=100 Dip=66 Slip=-157
 NP2: 0 69 -26

MNI 3.28 255 ePc 40 01.50 0.5
 eS 40 24.00

DAV 5.34 333 eP- 40 30.00 0.0
 AAI 5.95 178 eP 40 40.20 1.7
 TSM 10.10 281 ePd 41 37.00 1.0
 0.8s 469.70nm 6.7mb X

MKS 11.34 229 iPc 41 51.50 -1.3
 0.6s 75.30nm 5.9mb
 i(S) 44 04.50

QCP 14.04 331 eP 42 28.00 -0.6
 MTN 15.36 168 eP 42 43.00 -2.8
 eS 42 50.00
 e 45 25.00

BAG 15.81 333 ePd 42 48.00 -3.8X
 1.7s 753.85nm 5.6mb
 eS 46 10.00

KHKI 16.28 229 ePd 42 58.10 0.6
 e(S) 45 06.00

MNDI 17.74 118 eP 43 20.00 4.0X
 KNA 17.95 178 iPd 43 17.70 -0.6
 0.9s 634.00nm 5.8mb

TRT 18.28 237 ePc 43 23.60 1.3
 0.6s 329.10nm 5.7mb
 GUMO 20.09 55 eP 43 42.50 -0.3
 1.3s 954.25nm 6.0mb

PJG 20.09 55 eP 43 42.50 -0.3
 GUA 20.10 55 eP+ 43 42.00 -0.9
 1.2s 912.50nm 6.0mb

Z 19s 29.86um 5.7MsZ
 LAT 20.94 115 eP 43 55.00 3.5X
 PMG 22.34 122 e(P)+ 44 05.00 -0.5

WB5 22.91 164 iPc 44 10.90 -0.2
 eS 48 21.00
 WRA 22.96 165 Pd 44 10.20 -1.4
 0.9s 85.00nm 5.2mb

ANP 23.59 345 iP- 44 19.50 1.7
 iS 48 30.00

HKC 24.00 327 iPd 44 22.00 0.4
 iS 48 41.00

MCO 24.20 326 eP 44 23.00 -0.6
 KLI 24.20 253 eP 44 26.50 2.8X
 QZH 24.27 339 iPd 44 24.50 0.2
 6.0s 17.50nm 3.7mb X

Z 24s 40.30um 5.8MsZ
 E 15s 15.30um
 pP 44 36.50 47kmX
 OIZ 24.34 314 eP 44 23.00 -2.0

N 19s 22.00um
 E 17s 27.30um
 PP 45 05.00
 sS 48 59.50

KGM 24.67 270 ePc 44 30.60 2.4
 GZH 25.08 327 iPd 44 31.60 -0.4

Z 20s 24.80um 5.7MsZ
 N 18s 19.00um
 E 15s 16.50um

OIS 25.40 154 iPc 48 57.50
 e 44 34.70 -0.4
 e 50 55.00

IPM 27.03 276 ePc 44 49.80 -0.3
 1.5s 110.50nm 5.3mb
 e 48 11.50

NANU 27.55 206 iPd 44 54.30 -0.4
 0.5s 72.00nm 5.6mb
 SNG 27.72 281 eP 44 56.00 -0.3
 1.6s 320.00nm 5.7mb

eS 49 09.00
 WARB 28.35 183 eP 44 51.00 -10.9X
 CTA 28.56 142 iPc+ 45 04.20 0.3
 1.6s 41.67nm 4.8mb

i 45 08.00
 e 45 24.00
 eP 46 01.00 296kmX
 eS 50 05.00

eScP 50 39.00
 ePcS 51 30.00
 iSS 52 45.00

PSI 29.06 271 iPc 45 08.00 -0.5
 1.1s 129.00nm 5.5mb
 SSE 29.36 348 iPc 45 10.00 -0.9
 1.5s 480.00nm 5.9mb

Z 20s 16.30um 5.6MsZ
 N 14s 5.40um
 E 14s 17.50um

iS 50 00.00
 sS 50 16.00
 SS 51 36.00
 PcS 52 32.00
 ScS 56 08.00

NNT 29.80 291 eP 45 13.20 -1.9
 LOE 29.86 302 iPd 45 14.00 -1.6
 e 51 29.00

MEKA 30.17 197 eP 45 16.90 -1.3
 NST 30.51 297 iPd 45 22.20 0.9
 NJ2 30.82 345 Pd 45 23.00 -0.9

N 14s 11.40um
 E 15s 25.50um

S 50 23.00
 WHN 30.93 337 iPd 45 26.00 1.2
 4.0s 4.40nm 3.5mb X
 Z 22s 39.20um 6.0MsZ
 N 16s 16.40um
 E 20s 39.50um

sP 45 43.00
 S 50 24.00

GYA 31.57 321 P 45 32.00 1.2
 Z 18s 14.30um 5.7MsZ
 N 16s 13.00um
 E 16s 14.30um

BDT 32.13 299 iPd 45 33.70 -1.9
 0.6s 43.00nm 5.5mb
 SHK 32.36 7 eP 45 36.00 -1.4
 CHG 32.85 302 iPd 45 41.00 -0.9
 1.1s 176.58nm 5.8mb

eS 51 20.00
 CHTO 32.85 302 iPd 45 40.34 -1.5
 id 45 42.82
 ePP 46 50.03

FORR 32.97 180 eP 45 40.00 -2.6
 0.4s 96.00nm 6.0mb
 KMI 33.29 315 iPd 45 45.88 0.1
 id 45 48.37

MRWA 33.39 199 eP 45 44.90 -1.5
 COOL 33.64 191 iPd 45 46.60 -2.0
 HNR 33.89 111 eP 45 59.00 8.1X
 BAL 34.45 197 iPd 45 54.20 -1.3
 RMO 34.94 146 eP 46 06.00 6.2X

e 47 28.00
 e 48 46.00
 e 52 22.00

KLB 35.09 195 eP 45 59.30 -1.6
 0.4s 29.00nm 5.6mb
 TIA 35.21 345 Pd 46 01.00 -1.0
 8.0s 1.50nm 3.0mb X

Z 22s 17.70um 5.8MsZ
 N 14s 11.50um
 E 15s 16.20um

S 51 32.00
 ScP 52 14.90

MAT 35.35 14 P 46 01.00 -2.2

27d 23h

| | | | | | | | | | | | | | | | | | |
|------|-------|-----|------|----------|---------|------|-------|-----|-----------|----------|---------|------|--------|-----|---------|----------|----------|
| MUN | 35.88 | 197 | eP | 46 06.30 | -1.4 | DZM | 44.67 | 125 | iPc | 47 31.00 | 10.5X | SALJ | 90.77 | 302 | P | 52 10.30 | 0.4 |
| Z | 22s | | | 10.90um | 5.6Msz | GTA | 44.97 | 329 | iPd | 47 23.10 | 0.4 | KFNJ | 90.78 | 302 | P | 52 10.30 | 0.5 |
| XAN | 36.26 | 333 | iPc | 46 10.70 | -0.2 | | 5.0s | | 3.40nm | | 3.4mb X | MKRJ | 90.83 | 301 | P | 52 10.70 | 0.5 |
| | 4.0s | | | 6.30nm | 3.9mb X | Z | 34s | | 20.70um | | 5.8MszX | INK | 91.01 | 22 | eP | 52 09.00 | -1.2 |
| N | 18s | | | 15.80um | | N | 28s | | 46.80um | | | NAI | 91.25 | 269 | iPc | 52 15.50 | 2.8X |
| E | 18s | | | 12.90um | | E | 28s | | 30.80um | | | | 1.0s | | 15.00nm | | 5.4mb |
| | | | pP | 46 22.70 | 44kmX | | | | PcP | 49 04.30 | | ZNT | 91.31 | 302 | iPd | 52 13.50 | 1.2 |
| | | | S | 51 51.40 | | | | | PP | 49 06.00 | | MBH | 91.59 | 300 | iPd | 52 14.80 | 1.2 |
| STK | 36.36 | 160 | iPd | 46 11.90 | 0.2 | | | | S | 53 50.00 | | KEV | 91.66 | 340 | eP | 52 13.00 | -0.1 |
| | | | e | 46 17.00 | | HIA | 47.32 | 353 | iPd | 47 40.21 | -0.8 | | Z | 20s | | 3.90um | 5.8Msz |
| | | | e | 52 25.00 | | | | | id | 47 43.02 | | | | | | eSKS | 02 40.00 |
| NWAO | 36.49 | 195 | iPd | 46 12.00 | -0.8 | | | | iS | 54 32.45 | | | | | | eS | 03 04.00 |
| | 0.4s | | | 17.00nm | 5.3mb | | | | | | | | | | | LR | 41 20.00 |
| CD2 | 36.54 | 324 | Pd | 46 13.70 | 0.4 | PKI | 47.83 | 306 | P | 47 45.60 | -0.2 | IKL | 92.15 | 306 | iP | 52 16.00 | 0.0 |
| Z | 18s | | | 16.40um | 5.9Msz | KKN | 48.03 | 306 | P | 47 46.80 | -0.3 | SOD | 92.27 | 338 | iP | 52 15.10 | -0.9 |
| N | 17s | | | 24.80um | | DMN | 48.10 | 306 | P | 47 48.00 | 0.3 | | | | | i | 52 20.00 |
| DL2 | 36.90 | 352 | P | 46 16.00 | -0.1 | TAU | 48.26 | 161 | eP | 47 51.00 | 2.7 | SPA | 92.29 | 180 | e(P) | 52 25.20 | 9.0X |
| Z | 19s | | | 12.70um | 5.7Msz | | | | e | 49 52.00 | | | 1.0s | | | 30.00nm | 5.7mb |
| E | 18s | | | 42.90um | | GKN | 48.63 | 306 | P | 47 51.40 | -0.3 | KJF | 92.42 | 334 | iP | 52 16.00 | -0.7 |
| | | | eS | 51 56.00 | | KOD | 50.80 | 281 | eP | 48 09.00 | 0.4 | | 0.9s | | | 33.80nm | 5.8mb |
| BRS | 37.96 | 143 | Pd | 46 16.30 | -8.9X | | | | eS | 55 20.00 | | | Z | 18s | | 10.70um | 6.3Msz |
| | | | i | 46 23.30 | | HYB | 50.80 | 291 | iPd | 48 08.00 | -0.3 | | | | | eSKS | 02 44.00 |
| | | | i | 46 27.30 | | | 1.4s | | 1700.00nm | | 6.9mb X | | | | | ePS | 04 36.00 |
| | | | i | 46 36.30 | | | | | iS | 55 20.00 | | | | | | LR | 36 40.00 |
| | | | i | 46 45.30 | | GBA | 51.22 | 286 | P | 48 10.60 | -0.8 | | | | | i | 52 26.30 |
| | | | iPcP | 48 01.20 | | WMO | 54.62 | 325 | iPd | 48 36.82 | 0.4 | ANTO | 92.55 | 310 | ePd | 52 18.36 | 0.4 |
| | | | iS | 51 58.20 | | | | | id | 48 39.14 | | BBTK | 92.58 | 310 | eP | 52 17.00 | -1.1 |
| | | | e | 52 20.20 | | NDI | 54.97 | 304 | iPd | 48 38.00 | -1.1 | | | | | e | 52 20.00 |
| | | | iScP | 52 26.00 | | | 0.6s | | 186.67nm | | 6.3mb | MBC | 93.06 | 13 | eP | 52 19.00 | -0.5 |
| TIY | 38.04 | 340 | iPd | 46 26.00 | 0.2 | | | | iS | 56 20.00 | | SUF | 93.40 | 333 | eP | 52 20.00 | -1.2 |
| | 1.4s | | | 0.60nm | 3.3mb X | POO | 55.41 | 291 | iPc | 48 41.60 | -0.9 | AKSR | 93.66 | 294 | eP | 52 23.50 | 0.3 |
| E | 20s | | | 24.70um | | | | | iS | 56 21.60 | | AGRW | 93.85 | 294 | eP | 52 24.50 | 0.4 |
| | | | pP | 46 39.00 | 49kmX | KRP | 59.39 | 137 | eP | 49 15.00 | 4.8X | AKUR | 93.86 | 294 | eP | 52 24.50 | 0.4 |
| | | | PP | 47 57.00 | | KSH | 59.92 | 315 | iPd | 49 16.00 | 2.0 | NUR | 94.56 | 331 | eP | 52 26.00 | -0.6 |
| | | | S | 52 17.00 | | | Z | 30s | 16.50um | | 6.0MszX | | Z | 23s | | 8.50um | 6.1MszX |
| | | | sS | 52 34.00 | | | N | 16s | 10.10um | | | | | | | eSKS | 03 00.00 |
| ADE | 38.41 | 166 | iPc | 46 29.10 | 0.2 | WEL | 60.68 | 141 | P | 49 26.00 | 7.1X | | | | | ePS | 04 52.00 |
| | 0.8s | | | 238.81nm | 6.1mb | SMY | 63.06 | 29 | P | 49 34.10 | -0.5 | | | | | LR | 36 40.00 |
| BJI | 39.07 | 346 | Pd | 46 34.00 | -0.3 | QUE | 63.99 | 303 | iPd | 49 41.00 | -0.5 | HLW | 94.65 | 300 | eP | 52 34.00 | 6.3X |
| Z | 24s | | | 13.30um | 5.7MszX | | | | eS | 58 15.00 | | | | | | eS | 03 00.00 |
| N | 14s | | | 7.40um | | ADK | 67.43 | 33 | eP | 50 01.90 | -0.9 | | | | | e | 56 06.00 |
| | | | eS | 52 32.00 | | | 1.3s | | 160.40nm | | 5.9mb | ALE | 95.14 | 1 | eP | 52 29.00 | 0.0 |
| SNY | 39.55 | 355 | iPd | 46 37.40 | -0.9 | MAIO | 71.39 | 308 | iPd | 50 28.00 | 0.4 | | 0.7s | | | 6.00nm | 5.1mb |
| Z | 22s | | | 23.00um | 6.0Msz | | 1.5s | | 202.70nm | | 5.8mb | CFR | 95.32 | 316 | eP | 52 30.00 | -0.4 |
| N | 16s | | | 10.30um | | | | | eS | 59 44.00 | | | | | | e | 56 18.00 |
| E | 16s | | | 24.80um | | KHI | 71.68 | 305 | iPd | 50 26.80 | -2.7 | TLB | 95.50 | 315 | eP | 52 30.50 | -0.7 |
| | | | pP | 46 50.50 | 49kmX | HON | 74.25 | 69 | P | 50 45.60 | 1.1 | VR1 | 96.20 | 316 | ePc | 52 35.00 | 0.5 |
| | | | iS | 52 37.50 | | | Z | 20s | 12.77um | | 6.2Msz | ISR | 96.45 | 316 | eP | 52 25.00 | -10.7X |
| COO | 39.84 | 147 | eP | 46 41.00 | 0.1 | PFH | 77.02 | 71 | P | 51 01.00 | 0.7 | MLR | 96.81 | 316 | iPc | 52 37.00 | -0.4 |
| LZH | 40.37 | 329 | iPd | 46 46.99 | 1.6 | SDN | 77.65 | 34 | eP | 51 03.00 | 0.0 | KDZ | 97.87 | 312 | eP | 52 41.00 | -1.1 |
| | | | id | 46 49.31 | | DHR | 78.11 | 296 | iPd | 51 06.20 | 0.1 | UPP | 98.12 | 331 | iP | 52 51.50 | 8.8X |
| HHC | 41.15 | 341 | Pd | 46 52.50 | 0.9 | KER | 81.19 | 304 | ePd | 51 22.50 | -0.3 | | | | | iSKS | 03 18.00 |
| Z | 26s | | | 35.50um | 6.1MszX | RYD | 81.23 | 295 | iPd | 51 23.20 | 0.2 | | | | | iS | 04 02.00 |
| E | 18s | | | 13.50um | | AVY | 81.55 | 251 | iPc | 51 26.30 | 1.3 | | | | | iPP | 56 45.80 |
| | | | pP | 47 00.00 | 25kmX | TTA | 81.59 | 27 | eP | 51 25.20 | 1.0 | DAG | 98.84 | 353 | iPc | 52 44.50 | -1.3 |
| | | | S | 53 04.00 | | TAB | 82.03 | 308 | iP | 51 28.00 | 0.9 | | 1.3s | | | 82.69nm | 6.1mb |
| BWA | 41.26 | 154 | eP | 46 54.20 | 1.7 | KDC | 82.45 | 32 | eP | 51 29.30 | 0.7 | | Z | 19s | | 2.08um | 5.7Msz |
| | | | i | 47 01.80 | | SLY | 82.57 | 305 | iP | 51 29.00 | -0.7 | MMB | 99.12 | 313 | eP | 52 47.00 | -0.8 |
| | | | e | 48 41.30 | | | | | eS | 01 45.00 | | LWI | 99.28 | 268 | ePd | 52 53.40 | 4.1X |
| CN2 | 41.39 | 357 | Pd | 46 51.50 | -1.8 | | | | e | 06 29.00 | | VTs | 99.30 | 314 | eP | 52 49.00 | 0.2 |
| | 5.0s | | | 1.10nm | 2.9mb X | | | | iPcP | 51 39.00 | | KRA | 99.75 | 322 | eP | 52 50.00 | -0.4 |
| Z | 21s | | | 19.60um | 6.0Msz | KMSA | 83.13 | 290 | iPd | 51 32.50 | -0.4 | | | | | e | 52 57.50 |
| N | 17s | | | 12.70um | | IMA | 83.17 | 24 | ePd | 51 33.00 | 0.6 | SLR | 99.76 | 244 | iPc | 52 55.60 | 4.5X |
| | | | S | 53 00.00 | | | 1.5s | | 194.40nm | | 5.9mb | | Z | 20s | | 5.67um | 6.1Msz |
| BTO | 41.45 | 339 | iPd | 46 54.00 | -0.1 | BHD | 83.41 | 303 | iPc | 51 35.00 | 0.9 | SPC | 99.78 | 321 | eP | 52 46.50 | -4.4X |
| | N | 20s | | 16.20um | | | | | eS | 01 31.00 | | | | | | e | 52 52.00 |
| E | 23s | | | 28.20um | | | | | ePS | 02 01.00 | | | | | | e | 56 51.10 |
| | | | S | 53 03.00 | | MSL | 84.50 | 306 | iPc | 51 40.00 | 0.5 | | | | | e | 57 00.70 |
| SHL | 41.75 | 307 | iP | 46 56.20 | -0.6 | | | | eS | 02 01.50 | | VAY | 100.03 | 312 | ePdiff | 52 50.40 | -1.5 |
| | | | eS | 53 14.00 | | | | | ePS | 02 17.00 | | YKA | 100.26 | 25 | Pdiff | 52 53.20 | 0.8 |
| MDJ | 42.16 | 2 | iPd | 46 59.00 | -0.7 | | | | ePcP | 51 48.00 | | SKO | 100.72 | 313 | ePdiff | 52 56.00 | 1.0 |
| Z | 20s | | | 24.30um | 6.1Msz | | | | ePP | 54 55.00 | | | Z | 20s | | 2.48um | 5.7Msz |
| N | 18s | | | 13.70um | | PMR | 84.58 | 28 | ePd | 51 39.00 | -0.4 | | N | 20s | | 3.00um | |
| | | | epP | 47 10.00 | 39kmX | | 1.3s | | 283.00nm | | 6.2mb | | E | 20s | | 3.01um | |
| | | | esP | 47 16.00 | | | Z | 21s | 8.00um | | 6.1Msz | | | | | iPP | 03 30.00 |
| | | | ScS | 57 00.00 | | ABHA | 84.79 | 288 | ePc | 51 43.90 | 2.3 | | | | | iSP | 05 58.00 |
| CAN | 42.27 | 154 | eP | 47 02.00 | 1.2 | ARO | 84.81 | 281 | iPd | 51 43.50 | 2.0 | | | | | iSS | 11 30.00 |
| | | | i | 47 13.20 | | FBA | 85.46 | 25 | ePd | 51 45.30 | 1.6 | | | | | LR | 44 15.00 |
| SAP | 42.29 | 15 | eP | 47 03.00 | 2.3 | KVT | 89.99 | 311 | iP | 52 06.20 | 0.1 | | | | | i | 56 27.00 |
| | | | eS | 53 25.00 | | JARJ | 90.53 | 302 | P | 52 09.30 | 0.5 | NAO | 100.89 | 334 | Pdiff | 52 53.60 | -1.7X |
| CNB | 42.43 | 154 | eP | 47 03.00 | 0.9 | BHL | 90.69 | 304 | Pd | 52 09.50 | 0.0 | | 1.5s | | | 42.50nm | 5.8mb |
| | | | e | 47 12.00 | | | | | SKS | 02 45.00 | | KSP | 101.75 | 323 | ePdiff | 52 59.20 | -0.1 |
| TOO | 42.86 | 159 | iPd | 47 07.40 | 1.9 | | | | | | | | | | | e | 57 08.50 |
| | | | e | 47 13.00 | | BURJ | 90.69 | 302 | P | 52 09.00 | -0.5 | PRU | 103.08 | 323 | ePdiff | 53 05.50 | 0.2 |
| LSA | 44.34 | 312 | Pd | 47 19.20 | 1.0 | GLH | 90.75 | 303 | iPd | 52 11.50 | 1.8 | BRG | 103.14 | 324 | ePdiff | 53 05.60 | 0.1 |
| | | | iS | 53 56.00 | | MASJ | 90.75 | 302 | P | 52 10.40 | 0.6 | | 2.0s | | | 44.00nm | 5.9mb |

Z 18s 5.50um 6.1Msz
 N 20s 3.50um
 E 20s 3.00um
 e 57 07.20
 CLL 103.54 324 ePdiff53 05.00 -2.3
 2.7s 140.00nm 6.3mb
 Z 18s 6.00um 6.2Msz
 iPP 57 26.10
 KHC 103.97 322 iPdiff53 10.30 1.0
 BKS 104.06 50 ePdiff53 25.00 15.1X
 Z 20s 6.00um 6.1Msz
 N 20s 1.50um
 E 20s 5.00um
 e(PP) 57 30.00
 i 58 16.00
 MOX 104.60 324 e(Pdiff53 13.00 1.0X
 2.3s 27.00nm 5.7mb
 Z 18s 3.20um 5.9Msz
 N 17s 5.30um
 E 18s 4.10um
 eSKS 03 48.00
 ePS 06 38.00
 eSS 12 30.00
 e 23 00.00
 e 56 40.00
 e 57 20.00
 ePP 57 35.00
 GRF 105.20 323 ePKP 57 19.00 -9.9X
 1.7s 65.00nm
 Z 20s 7.00um 6.2Msz
 WTS 106.78 326 ePKP 57 49.00 17.2X
 1.5s 114.00nm
 KVN 106.86 48 PKP 57 34.50 1.8
 SES 107.35 35 ePdiff53 27.00 2.6X
 FIR 107.36 317 ePKP 57 53.00 19.9X
 ENN 107.83 326 ePKP 57 56.50 22.7X
 1.4s 71.00nm
 WLF 108.20 324 PKPc 57 39.20 4.7X
 EUR 108.30 47 iPKP 57 37.00 1.6
 0.2s 7.82nm
 LRM 108.42 40 ePKP 57 37.30 1.8
 BSF 108.63 323 ePKP 57 36.50 0.9
 HAU 108.82 323 ePKP 57 37.20 1.3
 BNG 109.20 275 ePdiff53 39.90 6.5
 0.7s 6.00nm
 id 57 40.00
 LPG 109.65 320 ePKP 57 38.00 0.1
 1.0s 16.00nm
 FFC 109.89 28 ePdiff53 48.00 12.5X
 0.9s 9.00nm
 FFC 109.89 28 ePKP 57 42.00 4.4X
 1.2s 39.00nm
 BW06 111.57 42 PKP 57 43.00 1.5
 GOL 115.75 43 iPdiff54 16.60 14.3X
 0.7s 11.13nm
 GOL 115.75 43 iPKP 57 49.50 -0.2
 Z 20s 3.55um 6.0Msz
 e 57 55.00
 RSON 116.23 28 PKP 57 49.00 -0.9
 ALO 117.02 49 ePdiff53 59.00 -9.0X
 0.8s 2.80nm
 ALO 117.02 49 ePKP 57 52.00 -0.2
 Z 19s 5.90um 6.2Msz
 ASMO 120.40 316 ePKP 58 00.00 1.6
 APHE 120.57 316 ePKP 57 58.50 -0.3
 AAPN 120.69 317 iPKP 57 58.50 -0.4
 ALOJ 120.78 316 ePKP 58 02.00 2.9X
 SCH 121.78 10 ePKP 58 01.00 0.7
 MEO 122.86 45 ePKP 58 03.90 0.9
 1.5s 35.10nm
 IFR 123.29 313 iPKP 58 06.00 1.9
 AVE 125.05 314 ePKP 58 12.00 4.7X
 i 58 24.00
 GAC 127.86 21 ePKP 58 12.00 -0.3
 KIC 132.05 281 PKP 58 21.24 0.0
 TBR 132.26 23 PKP 58 18.00 -2.8X
 TIC 132.28 281 PKP 58 21.64 0.0
 LIC 132.35 280 PKP 58 21.70 -0.1
 SAN 144.42 153 ePKP 58 42.50 -0.8
 PEL 144.67 152 iPKPd 58 43.60 -0.2
 JACH 145.09 152 iPKP 58 44.50 -0.1
 SRA 145.42 69 ePKP 58 46.30 0.6
 MDZ 145.71 154 i(PKP) 58 46.50 0.9
 SJS 145.83 69 ePKP 58 45.00 -1.4
 ICR 146.03 68 ePKP 58 48.20 1.1
 UPA 150.35 67 ePKPc 58 58.20 4.9X
 Z 20s 5.83um 6.4Msz

ARE 156.20 127 ePKP 59 14.00 12.1X
 RDJ 157.83 202 ePKP 59 14.00 10.7X
 SDV 158.35 59 ePKP 59 05.50 1.1
 TOV 158.59 56 ePKP 59 10.60 6.1X
 ZOBO 158.91 132 PKP 59 06.00 0.6
 Z 22s 3.67um 6.2Msz
 LR 56 43.00
 i 59 25.70
 CAR 160.43 49 ePKP 59 14.00 7.5X
 BAO 166.18 196 ePKP 59 10.00 -1.9
 S.D. = 1.2 on 183 of 223 obs.

FEB 27, 1989 23h 46m 22.37±0.68s
 6.897 N ± 6.3km 72.804 W ± 9.3km
 DEPTH = 141.2 ± 7.2 km
 4.9mb (6 obs.)

NORTHERN COLOMBIA (99)

BMG 0.32 303 eP 46 42.50 -1.0
 FUQ 1.69 213 eP 46 53.00 -1.1
 BOG 2.58 209 iPd 47 07.00 2.0
 iS 47 36.50
 UPA 6.98 288 e(P) 48 03.50 0.1
 PSO 7.24 219 eP 48 08.00 0.7
 ZOBO 23.48 169 Pc 51 21.20 0.2
 0.5s 28.57nm 5.0mb
 LPB 23.74 169 P 51 22.00 -1.4
 1.0s 40.00nm 4.9mb
 CNCB 24.03 169 Pc 51 27.00 0.7
 JSC 28.35 345 P 52 06.70 1.7
 ELC 33.74 336 P 52 52.30 0.0
 FVM 34.83 335 P 53 02.40 0.8
 GAC 38.73 357 eP 53 37.00 2.8
 VAO 39.01 140 eP 53 36.70 -0.2
 BMA 40.63 137 e(P) 53 50.00 -0.2
 GLA 46.83 310 P 54 39.80 -0.1
 RSON 47.15 342 P 54 41.80 -0.3
 0.5s 19.10nm 5.0mb
 SCH 48.03 5 eP 54 50.00 1.1
 BW06 48.21 324 P 54 49.80 -0.9
 0.7s 6.58nm 4.5mb
 TNP 50.73 314 P 55 10.00 -0.1
 HPI 50.85 323 P 55 11.20 0.2
 LRM 51.69 325 eP 55 17.00 -0.3
 KVN 51.78 315 P 55 17.50 -0.5
 SES 53.79 331 eP 55 31.00 -1.4
 DPW 56.11 325 P 55 48.60 -0.7
 FRB 56.83 2 eP 55 53.00 -0.9
 PNT 57.67 326 eP 56 00.00 -0.1
 0.6s 8.00nm 4.8mb
 LON 57.69 322 P 55 59.60 -0.8
 YKA 63.30 340 P 56 37.70 -0.3
 LIC 67.28 86 P 57 04.60 0.2
 KIC 67.55 86 P 57 06.30 0.2
 INK 73.06 340 eP 57 38.00 -0.3
 MBC 73.79 350 eP 57 43.00 0.6
 0.6s 14.00nm 4.9mb
 SNF 76.50 40 P 58 03.00 4.8X
 DOU 76.66 40 P 58 05.20 6.1X
 MEM 77.60 40 P 57 56.30 -8.0X
 TRI 82.72 45 iPc 58 30.60 -1.0
 e 06 48.00
 i 07 48.00
 e 14 08.00
 e 17 48.00
 WRA 150.65 241 PKPc 05 58.60 4.4X
 0.4s 2.40nm
 WB5 150.65 241 ePKP 05 59.30 5.1X
 S.D. = 1.0 on 33 of 38 obs.

FEB 28, 1989 00h 04m 11.78±15.06s
 31.844 N ± 21.9km 36.566 E ± 103.3km
 DEPTH = 10.0km (geophysicist)

DEAD SEA REGION (373)

JARJ 0.66 307 P 04 25.90 1.0
 MASJ 0.73 261 P 04 26.90 0.7
 KFNJ 0.76 272 P 04 26.80 0.3
 SALJ 0.77 283 P 04 26.80 0.0
 BURJ 0.78 299 P 04 25.50 -1.4
 MKRJ 0.84 250 P 04 27.50 -0.6
 S.D. = 1.1 on 6 of 6 obs.

FEB 28, 1989 00h 26m 41.18±0.72s
 27.139 N ± 4.9km 92.644 E ± 3.8km
 DEPTH = 44.8 ± 8.3 km
 4.6mb (9 obs.)

INDIA-CHINA BORDER REGION (313)
Felt in the Gauhati area, India.

SHL 1.71 204 iP 27 11.50 2.3
 iS 27 30.50
 LSA 2.87 333 iPnc 27 31.00 5.0X
 PKI 6.45 275 P 28 15.80 -0.6
 KKN 6.57 277 P 28 17.80 -0.2
 DMN 6.72 276 P 28 19.00 -1.1
 GKN 7.16 279 P 28 25.20 -0.9
 KMI 9.29 100 eP 28 57.00 1.2
 S 30 30.00
 CHG 10.11 144 iPc 29 05.40 -1.4
 1.0s 32.50nm 5.5mb X
 BDT 11.47 148 eP 29 21.90 -3.3X
 0.5s 39.70nm 5.8mb X
 GYA 12.54 90 iPc 29 38.80 -0.9
 LZH 13.05 44 iPd 29 46.00 -0.5
 1.0s 844.00nm 6.7mb X
 NST 13.37 147 eP 29 51.00 0.5
 NDI 13.73 280 iPc 29 52.30 -2.9X
 0.5s 35.21nm 5.4mb
 eS 32 11.50
 XAN 15.60 60 Pd 30 17.60 -2.1
 NNT 15.93 154 eP 30 23.00 -0.9
 HYB 16.22 236 ePd 30 24.00 -3.6X
 0.8s 57.70nm 4.8mb
 eS 31 23.00
 WMO 17.12 348 P 30 41.00 2.2
 QIZ 17.75 113 eP 30 48.30 1.6
 KSH 18.53 316 eP 30 57.00 0.7
 POO 19.31 248 eP 31 03.60 -1.9
 iS 34 25.60
 WHN 19.31 75 eP 31 05.50 0.1
 1.0s 0.08nm 1.9mb X
 GBA 19.58 230 Pd 31 07.40 -1.1
 0.7s 22.30nm 4.6mb
 BTO 19.66 43 P 31 09.00 -0.3
 TIY 19.72 53 Pd 31 08.30 -1.6
 0.8s 0.10nm 2.2mb X
 HHC 20.75 44 Pc 31 20.80 0.2
 SNG 21.25 158 eP 31 26.00 0.3
 KOD 22.08 223 eP 31 36.00 1.6
 QUE 22.73 284 eP 31 41.50 0.9
 NJ2 23.29 72 eP 31 46.40 0.7
 BJI 23.37 51 eP 31 48.00 1.6
 IPM 23.82 159 ePd 31 51.90 0.8
 0.8s 22.40nm 4.7mb
 SSE 25.21 74 P 32 04.00 -0.3
 sP 32 24.80
 CN2 31.21 49 eP 32 59.00 0.6
 VRI 54.64 309 eP 36 08.80 1.1
 KJF 55.02 331 eP 36 10.00 -0.2
 MLR 55.22 308 eP 36 12.00 0.0
 SUF 55.50 329 iP 36 13.50 -0.1
 0.4s 1.70nm 4.4mb
 SOD 56.04 335 iP 36 17.40 -0.1
 KSP 61.04 315 eP 37 08.00 15.5X
 WB5 61.80 135 iPc 36 57.40 -0.6
 WRA 61.83 135 Pc 36 57.10 -1.1
 0.8s 10.90nm 5.0mb
 WARB 62.31 145 iPd 36 50.90 -10.4X
 0.4s 5.00nm
 BRG 62.50 316 e(P) 37 18.40 16.1X
 NAO 62.76 327 P 37 02.60 -1.3
 0.5s 1.50nm 4.4mb
 KHC 63.05 314 eP 37 07.00 1.0
 OIS 65.70 131 iPc 37 23.10 -0.4
 CDF 67.28 314 eP 37 47.90 14.5X
 CTA 70.00 126 iPc 37 50.40 -0.1
 0.8s 7.46nm 4.7mb
 SSF 70.11 313 eP 38 06.90 16.1X
 0.5s 2.90nm
 BNG 73.84 267 ePc 38 13.10 -0.4
 0.6s 3.00nm 4.4mb
 MBC 74.95 8 eP 38 19.00 0.2
 INK 78.95 16 eP 38 41.00 -0.2
 FRB 88.21 352 eP 39 29.00 0.6
 S.D. = 1.1 on 44 of 53 obs.

FEB 28, 1989 00h 42m 05.94±0.66s
 14.947 S ± 8.5km 24.485 E ± 9.2km
 DEPTH = 10.0km (geophysicist)

ZAMBIA (576)
MG 3.6 (BUL).

KMZ 1.98 42 iPn 42 39.00 -1.0

| | | | | | | | | | | | | | |
|------|--------|---------------|----------------|------|------------|--------------------|----------|---------|------|-------|-----------|----------|----------|
| | 1.2s | 500.00nm | 6.4mb | MOX | 104.55 | 324 e(Pdiff05 | 29.00 | 1.1 | N | 16s | 2.00um | | |
| | | eS | 08 33.20 | | 2.0s | 123.00nm | | 6.5mb | | S | 35 06.00 | | |
| POO | 55.33 | 291 iPc | 00 57.30 -0.6 | | | e | 09 37.00 | | QIZ | 24.36 | 314 eP | 30 50.00 | 1.8 |
| KSH | 59.86 | 315 Pd | 01 32.00 2.4 | | | ePP | 09 50.00 | | MBL | 24.61 | 199 eP | 30 49.00 | -1.5 |
| QUE | 63.91 | 303 iPd | 01 57.20 0.2 | GRF | 105.15 | 323 ePKP | 09 55.00 | 10.1X | KGM | 24.66 | 270 eP | 30 55.50 | 4.4X |
| | | eS | 10 33.10 | | 1.9s | 174.00nm | | | GZH | 25.11 | 327 Pc | 30 55.50 | 0.3 |
| MAIO | 71.32 | 308 iPd | 02 44.60 1.3 | WTS | 106.74 | 326 ePKP | 10 03.50 | 15.8X | QIS | 25.37 | 154 iPd | 30 57.40 | -0.4 |
| | 1.3s | 155.23nm | 5.8mb | | 1.5s | 82.00nm | | | IPM | 27.01 | 276 ePd | 31 16.50 | 3.5X |
| KHI | 71.61 | 305 iPd | 02 43.30 -1.8 | SES | 107.42 | 35 ePdiff05 | 40.00 | -0.7 | NANU | 27.51 | 206 iPc | 31 17.00 | -0.3 |
| DHR | 78.03 | 296 iPd | 03 22.50 0.7 | SES | 107.42 | 35 ePKP | 09 47.00 | -2.2X | | 0.5s | 36.00nm | | 5.2mb |
| KER | 81.12 | 304 ePd | 03 37.50 -1.0 | EUR | 108.38 | 47 iPKP | 09 52.50 | 0.9 | WARB | 28.31 | 183 eP | 31 14.70 | -9.8X |
| RYD | 81.15 | 295 iPd | 03 39.00 0.4 | | 0.2s | 8.93nm | | | CTA | 28.54 | 142 iPc | 31 27.00 | 0.3 |
| AVY | 81.46 | 251 iPd | 03 41.44 0.9 | LRM | 108.49 | 40 ePKP | 09 52.70 | 1.1 | | 1.5s | 61.11nm | | 5.0mb |
| SVW | 81.47 | 29 eP | 03 40.70 1.1 | BNG | 109.11 | 275 iPKPd | 09 55.10 | 1.7 | | e | | 31 30.50 | |
| TAB | 81.97 | 308 ePd- | 03 44.00 1.2 | | 1.6s | 39.00nm | | | | e | | 34 07.00 | |
| SLY | 82.50 | 305 iPc | 03 45.00 -0.4 | | | id | 10 28.10 | | SSE | 29.39 | 348 eP | 31 32.50 | -1.7 |
| | | eS | 14 03.50 | LPG | 109.60 | 320 ePKP | 09 54.70 | 0.9 | MEKA | 30.12 | 197 eP | 31 40.20 | -0.6 |
| KDC | 82.52 | 32 eP | 03 45.10 0.2 | | 0.7s | 4.80nm | | | NST | 30.51 | 298 eP | 31 45.80 | 1.4 |
| KMSA | 83.04 | 290 iPd | 03 48.30 -0.2 | FFC | 109.94 | 28 ePKP | 09 55.00 | 1.3 | NJ2 | 30.86 | 345 eP | 31 46.60 | -0.6 |
| IMA | 83.22 | 24 eP | 03 49.50 0.8 | | 1.0s | 20.00nm | | | WHN | 30.96 | 337 eP | 31 48.50 | 0.4 |
| | 1.0s | 105.00nm | 5.8mb | SSF | 110.92 | 323 ePKP | 09 59.50 | 3.7X | GYA | 31.60 | 322 P | 31 53.80 | -0.1 |
| BHD | 83.34 | 303 iPc | 03 51.00 1.3 | | 0.6s | 3.90nm | | | BDT | 32.14 | 299 eP | 31 55.90 | -2.7 |
| | | iS | 14 11.00 | FRB | 113.00 | 8 ePKP | 09 59.00 | -0.2 | CHG | 32.86 | 302 iPd | 32 04.00 | -0.9 |
| | | i | 14 34.00 | MFF | 113.33 | 324 ePKP | 10 01.20 | 0.8 | | 1.0s | 47.50nm | | 5.3mb |
| MSL | 84.44 | 306 iPc | 03 56.00 0.8 | ALO | 117.10 | 49 ePKP | 10 08.80 | 0.5 | FORR | 32.92 | 180 eP | 32 03.50 | -1.7 |
| | | ePP | 07 08.00 | ASMO | 120.35 | 316 ePKP | 10 15.50 | 1.2 | KMI | 33.30 | 315 eP | 32 09.50 | 0.5 |
| | | eS | 14 18.00 | APHE | 120.51 | 316 ePKP | 10 15.00 | 0.3 | MRWA | 33.34 | 199 eP | 32 07.90 | -1.1 |
| | | ePS | 14 33.00 | AAPN | 120.64 | 317 ePKP | 10 15.00 | 0.2 | COOL | 33.60 | 191 iPc | 32 09.90 | -1.3 |
| PMR | 84.64 | 28 eP | 03 55.30 -0.4 | SCH | 121.81 | 10 ePKP | 10 17.00 | 0.6 | BAL | 34.41 | 197 eP | 32 17.00 | -1.1 |
| ABHA | 84.70 | 288 iPc | 04 00.00 2.8 | MEQ | 122.93 | 45 ePKP | 10 18.30 | -0.9 | RMQ | 34.92 | 146 eP | 32 28.00 | 5.5X |
| ARO | 84.72 | 281 iPd | 03 59.80 2.7 | | 1.2s | 27.10nm | | | | e | | 35 03.00 | |
| FBA | 85.51 | 25 eP | 03 59.60 -0.4 | GAC | 127.91 | 21 ePKP | 10 28.00 | -0.4 | KLB | 35.04 | 195 iPc | 32 22.50 | -1.0 |
| NPA | 89.30 | 255 iP | 04 21.00 1.7 | KIC | 131.96 | 281 PKP | 10 38.28 | 1.2 | | 0.5s | 25.00nm | | 5.4mb |
| KVT | 89.93 | 311 iP | 04 22.80 1.0 | | 1.0s | 61.00nm | | | TIA | 35.25 | 345 P | 32 23.70 | -1.6 |
| HRI | 90.58 | 303 iPd | 04 27.20 2.1 | TIC | 132.19 | 281 PKP | 10 38.72 | 1.2 | MUN | 35.84 | 197 eP | 32 29.50 | -0.8 |
| BHL | 90.62 | 304 Pd | 04 26.00 0.8 | LIC | 132.26 | 280 PKP | 10 38.80 | 1.2 | XAN | 36.29 | 333 iPd | 32 33.60 | -0.5 |
| | | SKS | 14 57.00 | | 1.0s | 66.00nm | | | | S | | 38 15.50 | |
| DSI | 90.98 | 301 iPd | 04 28.50 1.7 | SAN | 144.45 | 153 iPKPc | 10 58.20 | -1.2 | STK | 36.33 | 160 iPd | 32 34.40 | 0.0 |
| INK | 91.06 | 22 eP | 04 26.00 -0.4 | PEL | 144.70 | 152 iPKPc | 10 59.90 | 0.0 | | 0.3s | 45.00nm | | 5.9mb |
| NAI | 91.16 | 269 iPd | 04 32.00 3.7X | SRA | 145.51 | 69 iPKPc | 11 03.00 | 1.2 | | e | | 32 40.00 | |
| | 1.0s | 25.00nm | 5.6mb | MDZ | 145.74 | 154 i(PKP) | 11 03.20 | 1.5 | | | e | 34 58.00 | |
| MBH | 91.51 | 300 iPd | 04 31.00 1.7 | SJS | 145.92 | 69 iPKPc | 11 03.00 | 0.5 | NWAO | 36.44 | 195 iPc | 32 35.00 | -0.4 |
| KEV | 91.64 | 340 eP | 04 28.00 -1.1 | BUS | 146.32 | 69 iPKPc | 11 04.80 | 1.2 | CD2 | 36.57 | 324 eP | 32 36.00 | -0.5 |
| SOD | 92.24 | 338 iP | 04 31.60 -0.3 | UPA | 150.44 | 67 ePKPc | 11 14.90 | 5.5X | CMS | 37.60 | 155 eP | 32 44.00 | -1.1 |
| SPA | 92.27 | 180 iPc | 04 33.50 1.3 | | 1.3s | 346.15nm | | | BRS | 37.93 | 143 iP | 32 49.00 | 1.0 |
| | 1.5s | 90.91nm | 6.0mb | ARE | 156.27 | 128 ePKP | 11 30.00 | 12.1X | | i | | 32 58.20 | |
| KJF | 92.40 | 334 iP | 04 32.20 -0.4 | LPB | 158.82 | 133 PKP | 11 24.00 | 2.9 | | iScS | | 41 52.40 | |
| | 0.9s | 35.50nm | 5.8mb | | 1.0s | 32.00nm | | | TIY | 38.07 | 340 eP | 32 48.50 | -0.6 |
| BBTK | 92.51 | 310 eP | 04 33.00 -0.8 | VAO | 158.82 | 193 ePKP | 11 21.80 | 1.2 | ADE | 38.37 | 166 iPd | 32 52.10 | 0.5 |
| MBC | 93.09 | 13 eP | 04 36.00 0.4 | | | e | 11 56.90 | | | 0.8s | 74.63nm | | 5.6mb |
| | 1.3s | 57.00nm | 5.8mb | ZOBO | 158.97 | 132 PKP | 11 23.30 | 1.8 | BJI | 39.11 | 346 P | 32 56.00 | -1.6 |
| SUF | 93.37 | 333 iP | 04 36.60 -0.5 | | 1.0s | 10.50nm | | | | S | | 38 52.00 | |
| | 0.8s | 12.10nm | 5.4mb | CCH | 159.61 | 138 ePKP | 11 25.00 | 3.2X | | ScP | | 38 53.00 | |
| AKSR | 93.58 | 294 eP | 04 40.00 1.2 | BAO | 166.14 | 197 ePKP | 11 22.10 | -5.8X | SNY | 39.59 | 355 eP | 33 00.40 | -1.2 |
| AKUR | 93.78 | 294 eP | 04 41.20 1.4 | | S.D. = 1.1 | on 166 of 181 obs. | | | COO | 39.82 | 147 eP | 33 04.00 | 0.3 |
| NUR | 94.53 | 331 iP | 04 42.40 -0.1 | | | | | | LZH | 40.40 | 329 Pd | 33 10.00 | 1.4 |
| ALE | 95.15 | 1 eP | 04 45.00 -0.1 | | | | | | | 3.0s | 2414.00nm | | 6.5mb X |
| | 0.5s | 4.00nm | 5.1mb | | | | | | | eS | | 39 18.00 | |
| TLB | 95.44 | 315 eP | 04 47.00 0.0 | | | | | | HHC | 41.18 | 341 P | 33 15.00 | 0.1 |
| VRI | 96.15 | 316 ePd | 04 51.00 0.7 | | | | | | | Z | 26s | 1.40um | 4.7MsZ X |
| MLR | 96.76 | 316 eP | 04 53.20 0.0 | | | | | | | eS | | 39 30.00 | |
| EZN | 97.43 | 310 eP | 04 54.00 -2.1 | | | | | | BWA | 41.23 | 154 iPc | 33 17.00 | 1.8 |
| DAG | 98.84 | 353 iPc | 05 00.90 -0.9 | | | | | | CN2 | 41.43 | 357 P | 33 17.00 | 0.4 |
| | 0.8s | 52.24nm | 6.1mb | MNI | 3.25 | 256 iPd | 26 24.40 | 0.5 | BTO | 41.49 | 339 eP | 33 17.50 | 0.2 |
| BUL | 99.52 | 250 eP | 05 06.10 0.0 | | | | | | SHL | 41.76 | 307 iP | 33 19.00 | -0.9 |
| KRA | 99.70 | 322 eP | 05 06.50 0.3 | DAV | 5.37 | 333 eP | 26 53.00 | -0.7 | | | iS | 39 04.80 | |
| | 1.7s | 123.00nm | 6.2mb | | | | | | MDJ | 42.20 | 2 eP | 33 22.00 | -1.0 |
| | | e | 05 13.50 | TSM | 5.91 | 178 eP | 27 03.50 | 2.2 | CAN | 42.24 | 154 iPc | 33 24.50 | 1.0 |
| VAY | 99.97 | 312 eP | 05 07.00 -0.6 | MKS | 10.09 | 281 eP | 28 01.00 | 1.9 | CNB | 42.40 | 154 eP | 33 25.00 | 0.2 |
| YKA | 100.31 | 25 Pd diff | 05 09.60 1.0 | KKM | 11.30 | 229 iPd | 28 19.50 | 4.0X | TOO | 42.82 | 159 eP | 33 29.00 | 0.8 |
| YKC | 100.37 | 25 eP diff05 | 08.00 -0.9 | QCP | 14.07 | 331 eP | 28 55.00 | 2.9X | LSA | 44.35 | 312 P | 33 42.40 | 1.1 |
| SKO | 100.66 | 313 eP diff05 | 10.00 -0.7 | MTN | 15.33 | 168 eP | 29 06.00 | -2.5 | GTA | 45.00 | 329 iPd | 33 46.20 | 0.3 |
| | | e | 09 21.50 | BAG | 15.84 | 333 eP | 29 12.00 | -3.3X | | 3.0s | 0.90nm | | 3.1mb X |
| NAO | 100.86 | 334 Pd diff | 05 10.30 -0.8 | PIP | 17.53 | 336 ePd | 29 34.80 | -1.4 | PKI | 47.84 | 306 P | 34 09.30 | 0.5 |
| | 1.2s | 20.70nm | 5.6mb | KNA | 17.91 | 178 eP | 29 40.00 | -0.9 | KKN | 48.04 | 306 P | 34 10.20 | 0.0 |
| KSP | 101.70 | 323 eP diff05 | 15.80 0.7 | TRT | 18.24 | 237 ePd | 29 49.40 | 4.4X | DMN | 48.11 | 306 P | 34 10.90 | 0.1 |
| | | e | 09 26.00 | | 1.2s | 243.10nm | | 5.3mb | GKN | 48.64 | 306 P | 34 14.70 | -0.1 |
| PRU | 103.04 | 323 Pd diff05 | 22.10 1.0 | GUA | 20.14 | 55 eP | 30 07.00 | 0.7 | KOD | 50.79 | 281 eP | 34 32.00 | 0.5 |
| | | e | 09 43.00 | | 0.8s | 101.49nm | | 5.2mb | HYB | 50.80 | 291 ePc | 34 31.00 | -0.3 |
| BRG | 103.09 | 324 eP diff05 | 22.20 0.9 | LAT | 20.94 | 115 eP | 30 17.00 | 2.5 | | 1.4s | 175.00nm | | 5.9mb |
| | 1.8s | 46.00nm | 5.9mb | PMG | 22.33 | 122 e(P) | 30 25.00 | -3.5X | GBA | 51.21 | 286 Pc | 34 33.00 | -1.3 |
| CLL | 103.49 | 324 eP diff05 | 22.00 -1.1 | WB5 | 22.87 | 164 iPd | 30 33.50 | -0.3 | | 0.9s | 32.90nm | | 5.4mb |
| | 2.1s | 54.00nm | 6.0mb | WRA | 22.93 | 165 Pc | 30 34.50 | 0.2 | WMQ | 54.64 | 325 iPd | 34 59.50 | 0.0 |
| Z | 18s | 1.50um | 5.6MsZ | | 0.5s | 31.60nm | | 5.0mb | | 4.0s | 0.90nm | | 3.2mb X |
| | | iPP | 09 41.00 | HKC | 24.03 | 327 Pc | 30 45.00 | 0.1 | | Z | 20s | 0.50um | 4.6MsZ |
| KHC | 103.92 | 322 Pd diff | 05 17.00 -8.1X | OZH | 24.31 | 339 Pd | 30 47.00 | -0.6 | | ScS | | 44 46.00 | |
| | | e | 05 31.80 | | 4.0s | 1.70nm | | 2.9mb X | NDI | 54.98 | 304 eP | 35 01.80 | -0.3 |

28d 01h

| | | | | | | |
|--------------------------------------|------------|--------------------|--------|----------|----------|------|
| P00 | 55.41 | 291 | eS | 42 12.50 | 35 03.80 | -1.6 |
| KSH | 59.94 | 315 | P | 35 39.20 | 2.2 | |
| QUE | 63.99 | 303 | eP | 36 03.60 | -0.9 | |
| | | | eS | 44 43.30 | | |
| MAIO | 71.40 | 308 | iPd | 36 51.00 | 0.4 | |
| SVV | 81.46 | 29 | eP | 37 46.80 | 0.4 | |
| TTA | 81.64 | 27 | eP | 37 47.60 | 0.3 | |
| | 1.1s | 25.00nm | | 5.1mb | | |
| TAB | 82.05 | 308 | eP | 37 51.00 | 0.9 | |
| KDC | 82.50 | 32 | eP | 37 51.90 | 0.2 | |
| | 0.8s | 55.17nm | | 5.6mb | | |
| IMA | 83.21 | 24 | eP | 37 55.40 | -0.1 | |
| | 1.1s | 4.38nm | | 4.4mb | | |
| BHD | 83.42 | 303 | eP | 37 58.00 | 1.0 | |
| MSL | 84.51 | 306 | ePd | 38 02.50 | 0.0 | |
| PMR | 84.63 | 28 | eP | 38 02.10 | -0.4 | |
| | 1.0s | 62.50nm | | 5.6mb | | |
| FBA | 85.50 | 25 | eP | 38 08.10 | 1.2 | |
| JARJ | 90.54 | 302 | P | 38 31.60 | -0.2 | |
| GLH | 90.76 | 303 | iP | 38 34.30 | 1.7 | |
| MASJ | 90.76 | 302 | P | 38 33.02 | 0.2 | |
| SALJ | 90.77 | 302 | P | 38 33.50 | 0.7 | |
| MKRJ | 90.84 | 301 | P | 38 33.50 | 0.4 | |
| DSI | 91.06 | 301 | iP | 38 35.00 | 1.0 | |
| INK | 91.06 | 22 | eP | 38 33.50 | 0.2 | |
| NAI | 91.24 | 269 | iPc+ | 38 38.00 | 2.5 | |
| MBH | 91.59 | 300 | iPc | 38 37.60 | 1.1 | |
| KEV | 91.69 | 340 | eP | 38 38.00 | 1.8 | |
| SOD | 92.30 | 338 | iP | 38 38.80 | -0.2 | |
| KJF | 92.45 | 334 | eP | 38 39.00 | -0.8 | |
| MBC | 93.10 | 13 | eP | 38 42.00 | -0.6 | |
| SUF | 93.42 | 333 | iP | 38 44.60 | 0.3 | |
| VR1 | 96.22 | 316 | eP | 38 57.50 | 0.0 | |
| DAG | 98.88 | 353 | eP | 39 07.00 | -1.9 | |
| YKA | 100.30 | 25 | Pdiff | 39 17.10 | 1.6 | |
| BNG | 109.19 | 275 | ePKPc | 44 02.10 | 1.7 | |
| | 0.7s | 6.00nm | | | | |
| ALQ | 117.06 | 49 | ePKP | 44 15.00 | -0.1 | |
| KIC | 132.04 | 281 | PKP | 44 45.00 | 0.9 | |
| LIC | 132.34 | 280 | PKP | 44 45.60 | 0.9 | |
| SAN | 144.39 | 153 | ePKP | 45 05.00 | -1.2 | |
| PEL | 144.64 | 152 | iPKPc | 45 06.10 | -0.5 | |
| JACH | 145.06 | 152 | ePKPd | 45 07.50 | 0.1 | |
| MDZ | 145.68 | 154 | i(PKP) | 45 09.50 | 1.1 | |
| CNCB | 158.65 | 134 | PKP | 45 29.00 | 1.0 | |
| LPB | 158.74 | 133 | PKP | 45 30.50 | 2.6X | |
| ZOBO | 158.89 | 132 | PKP | 45 29.20 | 0.9 | |
| | 0.8s | 4.70nm | | | | |
| Z | 21s | 0.83um | | 5.5Msz | | |
| | | LR | | 07 05.00 | | |
| CCH | 159.54 | 138 | ePKP | 45 26.00 | -2.6X | |
| BAO | 166.13 | 196 | ePKP | 45 35.50 | 0.8 | |
| | S.D. = 1.1 | on 109 of 120 obs. | | | | |
| * FEB 28, 1989 04h 49m 11.90 ± 1.99s | | | | | | |
| 2.101 N ± 9.4km 127.846 E ± 13.5km | | | | | | |
| DEPTH = 102.7 ± 18.8 km | | | | | | |
| 4.8mb (8 obs.) | | | | | | |
| MOLUCCA PASSAGE (266) | | | | | | |
| MNI | 3.08 | 258 | eP | 50 00.00 | 0.5 | |
| | | | eS | 50 43.20 | | |
| WB5 | 22.76 | 164 | eP | 54 06.20 | -0.1 | |
| WRA | 22.82 | 164 | Pc | 54 06.50 | -0.3 | |
| | 0.8s | 13.30nm | | 4.3mb | | |
| QZH | 24.40 | 339 | Pd | 54 22.00 | -0.1 | |
| GZH | 25.16 | 327 | eP | 54 27.60 | -1.6 | |
| QIS | 25.30 | 153 | eP | 54 30.00 | -0.6 | |
| WHN | 31.04 | 337 | eP | 55 22.60 | 0.5 | |
| CHG | 32.82 | 302 | iPc | 55 38.00 | 0.2 | |
| | 0.6s | 6.67nm | | 4.6mb | | |
| STK | 36.23 | 160 | eP | 56 07.00 | 0.3 | |
| | | | e | 56 10.00 | | |
| XAN | 36.36 | 333 | Pd | 56 06.30 | -1.6 | |
| CD2 | 36.61 | 324 | P | 56 09.50 | -0.5 | |
| ADE | 38.25 | 166 | eP | 56 27.70 | 3.9X | |
| BJI | 39.22 | 346 | eP | 56 28.00 | -3.7X | |
| LZH | 40.46 | 329 | P | 56 43.00 | 0.9 | |
| | 2.0s | 88.00nm | | 5.2mb | | |
| GTA | 45.06 | 329 | P | 57 18.50 | -0.9 | |
| PKI | 47.82 | 306 | P | 57 42.30 | 0.7 | |
| | 0.5s | 6.00nm | | 4.7mb | | |
| KKN | 48.01 | 306 | P | 57 43.20 | 0.3 | |
| | 0.6s | 18.00nm | | 5.1mb | | |
| DMN | 48.08 | 306 | P | 57 44.10 | 0.6 | |
| | 0.9s | 44.00nm | | 5.3mb | | |

| | | | | | | |
|--------------------------------------|------------|------------------|-----|----------|------|--|
| GKN | 48.62 | 306 | P | 57 47.60 | 0.1 | |
| | 0.6s | 12.00nm | | 5.0mb | | |
| HYB | 50.72 | 291 | eP | 58 04.00 | 0.4 | |
| GBA | 51.12 | 286 | Pd | 58 05.30 | -1.2 | |
| | 1.0s | 5.30nm | | 4.5mb | | |
| WMQ | 54.69 | 325 | iPd | 58 33.80 | 1.1 | |
| IMA | 83.41 | 24 | eP | 01 29.40 | 0.4 | |
| PMR | 84.83 | 28 | eP | 01 37.00 | 1.1 | |
| | S.D. = 0.9 | on 22 of 24 obs. | | | | |
| * FEB 28, 1989 05h 10m 34.74 ± 2.09s | | | | | | |
| 2.062 N ± 8.9km 127.926 E ± 13.0km | | | | | | |
| DEPTH = 64.1 ± 19.1 km | | | | | | |
| 5.0mb (7 obs.) | | | | | | |
| MOLUCCA PASSAGE (266) | | | | | | |
| MNI | 3.15 | 259 | ePc | 11 23.10 | 0.1 | |
| | | | eS | 12 03.00 | | |
| WB5 | 22.70 | 164 | eP | 15 31.90 | -0.2 | |
| | | | e | 15 37.00 | | |
| WRA | 22.76 | 164 | Pd | 15 31.90 | -0.7 | |
| | 0.6s | 7.00nm | | 4.3mb | | |
| MBL | 24.40 | 199 | eP | 15 48.00 | -0.5 | |
| QZH | 24.47 | 339 | eP | 15 49.20 | 0.1 | |
| QIS | 25.23 | 154 | iPc | 15 56.40 | 0.0 | |
| CTA | 28.42 | 142 | eP | 16 27.00 | 1.4 | |
| | | | e | 17 14.00 | | |
| CHG | 32.91 | 302 | eP | 17 04.80 | -0.5 | |
| STK | 36.16 | 160 | iPc | 17 32.70 | -0.2 | |
| XAN | 36.43 | 333 | P | 17 34.30 | -0.9 | |
| BJI | 39.28 | 346 | eP | 17 57.50 | -1.4 | |
| LZH | 40.54 | 329 | eP | 18 10.00 | 0.5 | |
| | 1.5s | 44.00nm | | 5.1mb | | |
| LSA | 44.43 | 312 | P | 18 43.50 | 1.7 | |
| GTA | 45.13 | 329 | eP | 18 47.20 | 0.4 | |
| PKI | 47.91 | 306 | P | 19 09.40 | 0.2 | |
| | 0.6s | 10.00nm | | 5.0mb | | |
| KKN | 48.10 | 306 | P | 19 10.80 | 0.3 | |
| | 0.7s | 17.00nm | | 5.1mb | | |
| DMN | 48.17 | 306 | P | 19 10.90 | -0.2 | |
| | 0.7s | 26.00nm | | 5.3mb | | |
| GKN | 48.71 | 306 | P | 19 15.00 | -0.1 | |
| | 0.6s | 13.00nm | | 5.1mb | | |
| GBA | 51.20 | 286 | P | 19 34.00 | -0.1 | |
| | 0.2s | 2.70nm | | 4.9mb | | |
| MAIO | 71.47 | 308 | eP | 21 51.00 | 0.2 | |
| | S.D. = 0.8 | on 20 of 20 obs. | | | | |
| ? FEB 28, 1989 05h 38m 15.90 ± 5.36s | | | | | | |
| 12.584 N ± 19.1km 60.561 W ± 47.6km | | | | | | |
| DEPTH = 33.0km (normal) | | | | | | |
| WINDWARD ISLANDS (95) | | | | | | |
| FCV | 0.88 | 311 | eP | 38 32.12 | 0.3 | |
| | | | eS | 38 44.46 | | |
| SVB | 0.96 | 316 | eP | 38 32.88 | -0.2 | |
| | | | eS | 38 45.10 | | |
| SSV | 0.96 | 320 | eP | 38 33.13 | 0.0 | |
| | | | eS | 38 45.43 | | |
| SVV | 0.97 | 319 | eP | 38 33.06 | -0.1 | |
| | | | eS | 38 45.41 | | |
| GRW | 1.15 | 249 | eP | 38 35.85 | 0.0 | |
| | | | eS | 38 52.40 | | |
| SLB | 1.32 | 339 | eP | 38 38.26 | 0.1 | |
| | | | eS | 38 54.89 | | |
| | S.D. = 0.2 | on 6 of 6 obs. | | | | |
| FEB 28, 1989 05h 50m 31.67 ± 1.13s | | | | | | |
| 2.257 N ± 4.1km 127.934 E ± 6.4km | | | | | | |
| DEPTH = 53.4 ± 10.9 km | | | | | | |
| 5.2mb (13 obs.) 4.4Msz (6 obs.) | | | | | | |
| MOLUCCA PASSAGE (266) | | | | | | |
| CENTROID, MOMENT TENSOR (HRV) | | | | | | |
| Data Used: GDSN | | | | | | |
| L.P.B.: 11S, 22C | | | | | | |
| Centroid Location: | | | | | | |
| Origin Time 05:50:31.1 0.6 | | | | | | |
| Lot 2.30N 0.05 Lon 127.65E 0.07 | | | | | | |
| Dep 37.9 5.1 Half-duration 1.7 | | | | | | |
| Moment Tensor: Scale 10**16 Nm | | | | | | |
| Mrr=-8.86 0.56 Mtt=1.02 0.54 | | | | | | |
| Mff=7.84 0.92 Mrt=-3.42 1.05 | | | | | | |
| Mrf=1.51 0.97 Mtf=-4.60 0.54 | | | | | | |
| Principal Axes: | | | | | | |
| T Vol=10.59 Plg=9 Azm=242 | | | | | | |
| N -0.66 15 149 | | | | | | |
| P -9.92 73 2 | | | | | | |

Best Double Couple: Mo=1.0*10**17
NP1: Strike=349 Dip=38 Slip=-66
NP2: 139 56 -108

| | | | | | | |
|------|-------|----------|------|----------|--------|--|
| MNI | 3.20 | 255 | ePd | 51 21.00 | 0.3 | |
| | | | eS | 51 57.00 | | |
| DAV | 5.34 | 334 | eP | 51 52.00 | 1.1 | |
| AAI | 5.91 | 177 | eP | 52 01.00 | 2.2X | |
| TSM | 10.04 | 281 | eP | 53 01.00 | 5.0X | |
| MKS | 11.25 | 229 | e(P) | 53 23.00 | 10.5X | |
| KKM | 12.28 | 288 | ePd | 53 28.00 | 1.7 | |
| QCP | 14.04 | 332 | eP | 53 48.00 | -1.5 | |
| MTN | 15.34 | 168 | eP | 54 06.00 | -0.3 | |
| | | | e | 57 35.00 | | |
| BAG | 15.82 | 333 | eP | 54 12.00 | -0.7 | |
| PIP | 17.51 | 336 | ePd | 54 35.50 | 1.8 | |
| KNA | 17.91 | 177 | eP | 54 38.00 | -0.7 | |
| TRT | 18.19 | 237 | ePd | 54 45.50 | 3.4X | |
| | 0.7s | 63.90nm | | 4.9mb | | |
| GUMO | 20.18 | 55 | eP | 55 05.00 | 0.4 | |
| PJG | 20.18 | 55 | eP | 55 05.70 | 1.1 | |
| LAT | 20.99 | 115 | eP | 55 12.00 | -0.9 | |
| PMG | 22.38 | 121 | e(P) | 55 10.00 | -16.8X | |
| WB5 | 22.89 | 164 | eP | 55 31.20 | -0.6 | |
| | | | eS | 58 54.50 | | |
| WRA | 22.94 | 164 | Pd | 55 33.80 | 1.5 | |
| | 1.1s | 103.30nm | | 5.2mb | | |
| QZH | 24.29 | 339 | Pd | 55 44.00 | -1.3 | |
| Z | 18s | 0.90um | | 4.3Msz | | |
| | | S | | 00 01.00 | | |
| QIZ | 24.32 | 314 | eP | 55 45.40 | -0.3 | |
| MBL | 24.5 | | | | | |

| | | | | | | | | | | | | | | | | | | | | |
|------|------------|----------|--------|-------|---------|--------|------|------------------------------|-----------|----------|-----------|---------|-------|----------------|----------------------------|-----------|----------------|-----------|-------|-------|
| BJI | 39.10 | 346 | eP | 57 | 53.50 | -1.9 | | | | | | | S | 11 | 23.00 | | | | | |
| COO | 39.85 | 147 | eP | 58 | 03.00 | 1.1 | NANU | 27.52 | 205 | eP | 12 | 37.00 | | | 09 | 35.00 | 0.6 | | | |
| LZH | 40.37 | 329 | eP | 58 | 06.50 | 0.3 | CTA | 28.59 | 142 | iPd | 13 | 06.30 | -0.4 | ZON | 8.47 | 169 | eP | 09 | 36.10 | -0.3 |
| | 4.0s | 484.00nm | | | 5.7mb X | | | 1.0s | 6.50nm | | | 4.2mb | RTCV | 8.81 | 168 | ePc | 09 | 37.50 | -1.5 | |
| Z | 26s | 0.30um | | | 4.0MszX | | | | e | | 13 | 09.20 | | PEL | 9.89 | 180 | iPc | 10 | 05.00 | 11.1X |
| | | pP | 58 | 15.00 | 29kmX | | | | eS | | 17 | 22.00 | | | | iS | 12 | 04.40 | | |
| HHC | 41.17 | 341 | eP | 58 | 12.00 | -0.6 | PSI | 29.01 | 271 | eP | 13 | 03.00 | -4.9X | VAO | 21.76 | 94 | eP | 12 | 13.70 | -8.0X |
| | 22s | 0.90um | | | 4.6Msz | | SSE | 29.35 | 348 | eP | 13 | 10.50 | -0.3 | | | e | 12 | 18.90 | | |
| | | eS | 04 | 23.00 | | | NJ2 | 30.82 | 345 | Pc | 13 | 24.00 | 0.3 | | | e | 12 | 33.70 | | |
| BWA | 41.26 | 154 | eP | 58 | 14.50 | 1.2 | WHN | 30.91 | 337 | eP | 13 | 25.00 | 0.5 | BMA | 24.37 | 94 | eP | 12 | 48.00 | 0.7 |
| | | e | 01 | 37.90 | | | Gya | 31.55 | 322 | P | 13 | 31.20 | 0.8 | ATB | 26.64 | 45 | e(P) | 13 | 14.30 | 5.7X |
| CN2 | 41.43 | 357 | eP | 58 | 11.00 | -3.5X | CHG | 32.81 | 302 | iPd | 13 | 41.40 | 0.0 | ELC | 62.68 | 343 | P | 17 | 53.10 | -1.5 |
| | 18s | 0.60um | | | 4.5Msz | | | 0.6s | 8.33nm | | | 4.7mb | FVM | 63.66 | 343 | P | 17 | 59.40 | -1.7 | |
| | | eS | 04 | 21.00 | | | MRWA | 33.36 | 199 | eP | 13 | 45.00 | -1.0 | ALQ | 67.09 | 329 | eP | 18 | 24.20 | 0.7 |
| BTO | 41.47 | 339 | eP | 58 | 21.00 | 5.9X | TIA | 35.21 | 345 | P | 14 | 00.00 | -1.8 | | 1.0s | 7.25nm | | | 4.7mb | |
| | | eS | 04 | 19.00 | | | XAN | 36.24 | 333 | iPd | 14 | 10.10 | -0.5 | GOL | 70.50 | 332 | P | 18 | 44.60 | 0.0 |
| MDJ | 42.21 | 2 | eP | 58 | 19.50 | -1.4 | STK | 36.37 | 160 | iPc | 14 | 11.60 | 0.0 | MSU | 72.72 | 327 | P | 18 | 59.80 | 1.9 |
| | 20s | 0.90um | | | 4.7Msz | | | | e | | 14 | 14.00 | | TNP | 75.04 | 324 | P | 19 | 13.30 | 2.0 |
| CAN | 42.27 | 154 | eP | 58 | 22.50 | 0.9 | | | e | | 14 | 12.80 | -0.2 | KVN | 76.22 | 324 | P | 19 | 19.00 | 1.0 |
| | | e | 01 | 05.00 | | | BRs | 37.98 | 143 | iP | 14 | 26.50 | 1.2 | RSON | 76.51 | 345 | P | 19 | 18.00 | -1.1 |
| CNB | 42.42 | 154 | iPc | 58 | 25.60 | 2.7 | TIY | 38.02 | 340 | Pc | 14 | 26.40 | 0.8 | | 0.9s | 7.35nm | | | 4.7mb | |
| TOO | 42.84 | 159 | eP | 58 | 27.00 | 0.7 | | N | 13s | 0.30um | | | 3.3X | HPI | 77.16 | 330 | P | 19 | 25.00 | 1.7 |
| LSA | 44.31 | 312 | P | 58 | 41.80 | 2.9X | ADE | 38.41 | 166 | iPc | 14 | 32.10 | 0.3 | LBFM | 79.89 | 323 | P | 19 | 39.50 | 1.3 |
| GTA | 44.97 | 329 | Pc | 58 | 44.00 | 0.4 | | 0.8s | 38.81nm | | | 5.4mb | SES | 81.54 | 335 | eP | 19 | 45.00 | -1.4 | |
| | 3.0s | 0.41nm | | | 2.7mb X | | BJI | 39.06 | 346 | eP | 14 | 32.50 | -1.6 | FFC | 82.16 | 342 | eP | 19 | 49.00 | -0.4 |
| E | 12s | 0.33um | | | | | SNY | 39.55 | 355 | Pc | 14 | 37.80 | -0.3 | | 1.0s | 16.00nm | | | 5.0mb | |
| | | PP | 00 | 25.00 | | | LZH | 40.35 | 329 | eP | 14 | 46.00 | 1.0 | DPW | 82.64 | 330 | P | 19 | 53.50 | 1.3 |
| | | eS | 05 | 15.00 | | | | 2.0s | 402.00nm | | | 5.9mb | FRB | 86.69 | 1 | eP | 20 | 11.00 | -1.0 | |
| PKI | 47.80 | 306 | P | 59 | 05.60 | -0.8 | HHC | 41.14 | 341 | eP | 14 | 51.00 | -0.4 | | S.D. = 1.4 | on | 28 | of | 31 | obs. |
| | 0.5s | 24.00nm | | | 5.5mb | | BWA | 41.28 | 154 | eP | 14 | 56.00 | 3.5X | | | | | | | |
| KKN | 47.99 | 306 | P | 59 | 07.50 | -0.3 | SHL | 41.71 | 307 | iP | 14 | 56.40 | 0.1 | ? FEB 28, 1989 | 07h | 12m | 46.08± | 4.26s | | |
| DMN | 48.06 | 306 | P | 59 | 08.00 | -0.3 | MDJ | 42.17 | 2 | eP | 14 | 59.00 | -0.6 | | 31.006 | N ±79.0km | 41.503 | W ±17.8km | | |
| GKN | 48.60 | 306 | P | 59 | 12.40 | 0.0 | CAN | 42.29 | 154 | eP | 15 | 03.00 | 2.2 | | DEPTH = | 10.0km | (geophysicist) | | | |
| KOD | 50.73 | 281 | eP | 59 | 31.80 | 2.8 | TOO | 42.87 | 159 | eP | 15 | 09.00 | 3.5X | | 4.9mb (| 2 | obs.) | | | |
| HYB | 50.75 | 291 | eP | 59 | 29.00 | 0.2 | GTA | 44.95 | 329 | Pd | 15 | 23.00 | 0.6 | | NORTH ATLANTIC RIDGE | | (403) | | | |
| | 1.0s | 70.00nm | | | 5.6mb | | | E | 11s | 0.27um | | | | | | | | | | |
| | | e | 59 | 36.00 | | | PKI | 47.79 | 306 | P | 15 | 04.00 | | GRF | 43.32 | 49 | eP | 20 | 52.00 | 2.3 |
| GBA | 51.16 | 286 | P | 59 | 33.00 | 1.1 | | 0.6s | 13.00nm | | | 5.1mb | | | 1.3s | 27.00nm | | | 4.8mb | |
| | 0.5s | 7.00nm | | | 4.9mb | | KKN | 47.99 | 306 | P | 15 | 47.10 | 0.5 | CLL | 44.61 | 47 | e(P) | 21 | 00.00 | -0.1 |
| WMO | 54.61 | 325 | P | 59 | 56.50 | -0.7 | DMN | 48.05 | 306 | P | 15 | 47.80 | 0.6 | KHC | 44.82 | 50 | P | 21 | 02.00 | 0.1 |
| Z | 16s | 0.40um | | | 4.6MszX | | GKN | 48.59 | 306 | P | 15 | 51.40 | 0.2 | PRU | 45.49 | 49 | Pc | 21 | 07.50 | 0.4 |
| | | S | 07 | 39.00 | | | KOD | 50.74 | 281 | eP | 16 | 08.40 | 0.4 | KSP | 46.65 | 48 | eP | 21 | 14.70 | -1.6 |
| NDI | 54.93 | 304 | eP | 59 | 58.00 | -1.7 | HYB | 50.76 | 291 | eP | 16 | 08.00 | 0.2 | DAG | 47.06 | 7 | eP | 21 | 19.00 | -0.2 |
| | | eS | 03 | 21.00 | | | | 1.2s | 78.60nm | | | 5.6mb | ZST | 47.14 | 51 | eP | 21 | 20.00 | -0.2 | |
| POO | 55.36 | 291 | eP | 00 | 05.00 | 2.0 | GBA | 51.17 | 286 | Pc | 16 | 09.80 | -1.0 | FFC | 48.47 | 318 | eP | 21 | 31.00 | 0.4 |
| KSH | 59.90 | 315 | eP | 00 | 37.00 | 2.3 | | 0.9s | 7.20nm | | | 4.7mb | | | 0.8s | 9.00nm | | | 4.9mb | |
| MAIO | 71.36 | 308 | eP | 01 | 50.00 | 1.7 | WMO | 54.59 | 325 | P | 16 | 36.00 | 0.0 | BZS | 50.39 | 54 | eP | 21 | 45.00 | -0.4 |
| | | eS | 11 | 07.00 | | | POO | 55.36 | 291 | eP | 16 | 40.50 | -1.4 | MLR | 53.42 | 54 | eP | 22 | 08.00 | -0.3 |
| SVW | 81.49 | 29 | eP | 02 | 46.20 | 1.7 | KSH | 59.89 | 315 | eP | 17 | 13.00 | -0.5 | YKA | 55.26 | 327 | P | 22 | 29.20 | 7.8X |
| IMA | 83.24 | 24 | eP | 02 | 53.50 | -0.1 | MAIO | 71.35 | 308 | eP | 18 | 28.00 | 0.9 | INK | 62.32 | 335 | ePd | 23 | 10.00 | -0.4 |
| | 1.0s | 10.00nm | | | 4.8mb | | SVW | 81.45 | 29 | eP | 19 | 24.00 | 0.8 | | S.D. = 1.0 | on | 11 | of | 12 | obs. |
| PMR | 84.66 | 28 | eP | 02 | 59.60 | -1.0 | IMA | 83.19 | 24 | eP | 19 | 32.70 | 0.5 | | | | | | | |
| INK | 91.08 | 22 | eP | 03 | 18.00 | -13.4X | | 1.2s | 13.70nm | | | 4.8mb | | FEB 28, 1989 | 09h | 05m | 29.97± | 0.81s | | |
| PRNI | 91.41 | 300 | eP | 03 | 36.00 | 2.3 | PMR | 84.61 | 28 | eP | 19 | 37.60 | -1.6 | | 43.463 | N ± 6.0km | 5.436 | E ± 5.9km | | |
| MBH | 91.55 | 300 | ePc | 03 | 32.00 | -2.3 | | 1.4s | 46.50nm | | | 5.4mb | | | DEPTH = | 10.0km | (geophysicist) | | | |
| MBC | 93.12 | 13 | eP | 03 | 42.00 | 1.4 | DAG | 98.84 | 353 | iPc | 20 | 44.80 | -0.7 | | NEAR SOUTH COAST OF FRANCE | | (379) | | | |
| DAG | 98.88 | 353 | iPc | 04 | 06.60 | -0.2 | | 0.8s | 5.22nm | | | 5.1mb | | | MD 3.2 (STR). | | | | | |
| | 0.7s | 4.79nm | | | 5.1mb | | | S.D. = 0.9 | on | 47 | of | 52 | obs. | | | | | | | |
| YKA | 100.33 | 25 | Pdiff | 04 | 15.90 | 2.3X | | | | | | | | GELF | 0.08 | 185 | Pg | 05 | 31.51 | -1.0 |
| KIC | 131.98 | 281 | PKP | 09 | 43.50 | 1.5 | | FEB 28, 1989 | 06h | 07m | 30.89± | 0.44s | | TREF | 0.17 | 347 | Pg | 05 | 33.57 | -0.2 |
| SAN | 144.41 | 153 | ePKP | 10 | 04.20 | 0.0 | | 23.217 | S ± 5.2km | 70.628 | W ± 9.7km | | PUYF | 0.20 | 70 | Pg | 05 | 33.41 | -1.0 | |
| MDZ | 145.70 | 154 | ePKP | 10 | 01.30 | -5.2X | | DEPTH = | 33.0km | (normol) | | PRAF | 0.39 | 330 | Pg | 05 | 38.58 | 0.6 | | |
| | | i | 11 | 56.90 | | | | 4.7mb (| 4 | obs.) | | VILF | 0.44 | 27 | Pg | 05 | 38.57 | -0.4 | | |
| UPA | 150.43 | 67 | e(PKP) | 10 | 20.90 | 6.6X | | NEAR COAST OF NORTHERN CHILE | | (122) | | TAVF | 0.48 | 71 | Pg | 05 | 39.10 | -0.6 | | |
| BAO | 166.11 | 197 | ePKP | 10 | 32.70 | 0.0 | | | | | | CALN | 1.09 | 74 | Pn | 05 | 51.02 | 0.4 | | |
| | S.D. = 1.2 | on | 75 | of | 90 | obs. | | | | | | MVIF | 1.32 | 70 | Pn | 05 | 54.58 | 0.1 | | |
| | | | | | | | HJA | 4.80 | 91 | ePd | 08 | 42.90 | 0.1 | TOUF | 1.42 | 67 | Pn | 05 | 56.40 | 0.3 |
| | | | | | | | FSA | 5.08 | 125 | ePd | 08 | 47.00 | 0.3 | AURF | 1.44 | 72 | Pn | 05 | 55.99 | -0.1 |
| | | | | | | | ARE | 6.77 | 353 | eP | 09 | 08.00 | -2.8 | | | Sg | 06 | 15.70 | | |
| | | | | | | | | | iS | 10 | 22.80 | | | AUTN | 1.54 | 69 | Pn | 05 | 57.63 | -0.1 |
| | | | | | | | CNCB | 6.84 | 22 | P | 09 | 12.00 | -0.1 | | | Sg | 06 | 18.95 | | |
| | | | | | | | RTRS | 7.00 | 172 | ePd | 09 | 14.90 | 1.2 | CVF | 2.67 | 108 | Pn | 06 | 15.70 | 1.9 |
| | | | | | | | | | S | 10 | 55.00 | | | S.D. = 0.9 | on | 12 | of | 12 | obs. | |
| | | | | | | | LPB | 7.06 | 20 | iPd | 09 | 16.00 | 1.0 | | | | | | | |
| | | | | | | | | 1.0s | 396.00nm | | | 6.3mb X | | * FEB 28, 1989 | 10h | 33m | 52.83± | 3.50s | | |
| | | | | | | | | | S | 10 | 41.00 | | | | 44.405 | N ± 6.4km | 8.133 | E ±34.0km | | |
| | | | | | | | | | eLR | 11 | 22.00 | | | | DEPTH = | 10.0km | (geophysicist) | | | |
| | | | | | | | CCH | 7.17 | 37 | eP | 09 | 18.00 | 1.6 | | NORTHERN ITALY | | (545) | | | |
| | | | | | | | | | i | 09 | 21.00 | | | | ML 2.8 (LDG). | | | | | |
| | | | | | | | ZOBO | 7.30 | 19 | Pc | 09 | 17.00 | -1.5 | | | | | | | |
| | | | | | | | | 0.5s | 81.82nm | | | 6.0mb X | | AUTN | 0.65 | 231 | Pg | 34 | 04.89 | -1.1 |
| | | | | | | | Z | 25s | 0.60um | | | 4.4Msz | | SBF | 0.74 | 223 | Pn | 34 | 08.80 | 1.4 |
| | | | | | | | | | LR | 12 | 01.00 | | | | Sg | 34 | 21.70 | | | |
| | | | | | | | RTLL | 8.31 | 167 | ePc | 09 | 30.60 | -1.4 | TOUF | 0.75 | 239 | Pg | 34 | 07.98 | 0.4 |
| | | | | | | | | | S | 11 | 17.00 | | | | Sg | 34 | 21.10 | | | |

28d 10h

| | | | | | |
|------|------|-----|----|----------|------|
| REVF | 0.86 | 220 | Pg | 34 09.17 | -0.3 |
| MVIF | 0.87 | 235 | Pg | 34 09.20 | -0.5 |
| | | | Sg | 34 22.19 | |
| CALN | 1.11 | 234 | Pg | 34 14.31 | 0.6 |
| FRF | 1.36 | 232 | Pn | 34 17.40 | -0.5 |
| | | | Sn | 34 37.40 | |
| LPG | 1.47 | 319 | Pn | 34 19.70 | 0.1 |
| | | | Sn | 34 40.00 | |
| LPL | 1.49 | 319 | Pn | 34 20.00 | 0.1 |
| LMR | 1.59 | 228 | Pn | 34 20.60 | -0.4 |
| | | | Sn | 34 43.00 | |
| LRG | 1.59 | 234 | Pn | 34 21.30 | 0.2 |
| | | | Sn | 34 44.00 | |
| BGF | 4.30 | 302 | Pn | 34 59.60 | -0.1 |

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

% FEB 28, 1989 10h 53m 07.45±0.87s
60.635 N ± 5.7km 6.241 E ± 14.1km
DEPTH = 10.0km (geophysicist)

SOUTHERN NORWAY (535)
MD 1.9 (BER).

| | | | | | |
|------|------|-----|-----|----------|------|
| HYA | 0.53 | 357 | iP | 53 17.39 | -0.9 |
| | | | iS | 53 25.45 | |
| ODD1 | 0.75 | 165 | iP | 53 21.26 | -0.9 |
| | | | eS | 53 30.95 | |
| BLS1 | 1.28 | 166 | iP | 53 30.98 | -0.3 |
| | | | iS | 53 47.67 | |
| KMY | 1.51 | 200 | iP | 53 35.52 | 1.0 |
| | | | iS | 53 55.04 | |
| MOL | 2.04 | 17 | eP | 53 42.85 | 0.7 |
| | | | eS | 54 05.38 | |
| NRA0 | 2.61 | 85 | eP | 53 50.80 | 0.4 |
| | | | iPg | 53 53.00 | |
| | | | eS | 54 17.70 | |
| | | | iSg | 54 26.90 | |

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

FEB 28, 1989 11h 31m 58.38±0.52s
46.278 N ± 5.0km 13.000 E ± 4.6km
DEPTH = 10.0km (geophysicist)

AUSTRIA (546)
MD 3.2 (LJU), 2.9 (TRI), ML 2.9 (KBA).

| | | | | | |
|------|------|----------|-------|----------|-------|
| MPRI | 0.04 | 192 | ePg | 32 00.20 | -0.3 |
| BOO | 0.08 | 59 | ePg | 32 00.10 | -0.8 |
| BAD | 0.17 | 104 | ePg | 32 01.30 | -1.0 |
| CSZ | 0.33 | 306 | ePg | 32 04.90 | -0.4 |
| FVI | 0.35 | 334 | P | 32 05.10 | -0.5 |
| | | | eSg | 32 10.80 | |
| TLI | 0.36 | 169 | ePg | 32 05.40 | -0.5 |
| RBL | 0.43 | 67 | P | 32 05.50 | -1.6 |
| | | | eSg | 32 11.60 | |
| VVI | 0.50 | 234 | P | 32 08.30 | -0.2 |
| | | | eSg | 32 17.00 | |
| VOY | 0.67 | 111 | iPg | 32 09.60 | -2.1 |
| | | | eSg | 32 20.30 | |
| TRI | 0.78 | 137 | ePg | 32 11.60 | -2.0 |
| KBA | 0.83 | 16 | iPg | 32 14.30 | -0.3 |
| | | | iSg | 32 25.80 | |
| CTI | 0.97 | 257 | P | 32 17.20 | 0.4 |
| | | | eSg | 32 33.20 | |
| LJU | 1.09 | 102 | ePg | 32 20.80 | 1.9 |
| | 0.2s | 140.00nm | iSg | 32 33.50 | |
| CEY | 1.13 | 118 | ePg | 32 21.90 | 2.3 |
| | 0.2s | 130.00nm | eSg | 32 36.00 | |
| SCE | 1.17 | 311 | iPg | 32 20.80 | 0.5 |
| VBY | 1.76 | 115 | ePn | 32 30.70 | 1.7 |
| | | | iSn | 32 53.30 | |
| PTJ | 2.09 | 99 | e(Pn) | 32 35.90 | 1.9 |
| | | | e(Sn) | 32 59.60 | |
| WET | 2.87 | 358 | iPnc | 32 45.50 | 0.5 |
| KHC | 2.88 | 8 | iPg | 32 45.80 | 0.6 |
| | | | Sg | 33 20.00 | |
| ZST | 3.39 | 54 | eP | 33 51.00 | 58.6X |
| SRO | 3.94 | 65 | eP | 33 09.60 | 9.4X |
| MLR | 9.07 | 90 | eP | 34 15.00 | 2.7X |

S.D. = 1.4 on 19 of 22 obs.

% FEB 28, 1989 12h 07m 57.84±1.08s
38.520 N ± 8.6km 14.578 E ± 9.1km
DEPTH = 10.0km (geophysicist)

SICILY (398)

| | | | | | |
|-----|------|-----|-----|----------|------|
| MNO | 0.60 | 171 | P | 08 10.60 | 0.6 |
| GIB | 0.69 | 219 | P | 08 11.10 | -0.4 |
| | | | eSg | 08 22.50 | |
| ATN | 0.78 | 117 | P | 08 13.30 | 0.2 |
| | | | eSg | 08 24.80 | |
| SOI | 1.25 | 111 | P | 08 20.30 | -0.6 |
| | | | eSg | 08 39.30 | |
| MGR | 1.78 | 25 | P | 08 29.10 | 0.2 |

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

% FEB 28, 1989 12h 14m 22.80±0.71s
38.550 N ± 5.9km 14.590 E ± 6.0km
DEPTH = 10.0km (geophysicist)

SICILY (398)

| | | | | | |
|-----|------|-----|-----|----------|------|
| MNO | 0.62 | 172 | P | 14 35.50 | 0.0 |
| | | | eSg | 14 45.00 | |
| GIB | 0.71 | 219 | P | 14 37.00 | 0.1 |
| | | | eSg | 14 47.00 | |
| ATN | 0.79 | 119 | P | 14 38.80 | 0.7 |
| | | | eSg | 14 50.70 | |
| MSI | 0.83 | 114 | P | 14 39.00 | 0.1 |
| | | | eSg | 14 52.70 | |
| MCT | 1.19 | 220 | P | 14 45.20 | 0.1 |
| SOI | 1.25 | 112 | P | 14 45.50 | -0.4 |
| | | | eSg | 15 05.20 | |
| MEU | 1.47 | 169 | P | 14 48.60 | -0.8 |
| MGR | 1.75 | 25 | P | 14 53.00 | -0.4 |
| TDS | 1.75 | 50 | P | 14 53.60 | 0.2 |

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

FEB 28, 1989 12h 16m 28.39±1.22s
49.162 N ± 4.9km 128.914 W ± 11.0km
DEPTH = 10.0km (geophysicist)

VANCOUVER ISLAND REGION (25)

| | | | | | |
|------|-------|---------|------|----------|-------|
| EDB | 1.37 | 58 | iPnc | 16 54.46 | 1.0 |
| ETB | 1.57 | 81 | iPnc | 16 57.31 | 1.0 |
| BTB | 2.24 | 81 | iPnc | 17 06.77 | 0.5 |
| OZB | 2.26 | 94 | iPnc | 17 05.82 | -0.6 |
| CBB | 2.47 | 68 | iPnc | 17 10.73 | 1.5 |
| MCW | 4.04 | 95 | eP | 17 31.96 | 0.4 |
| BLN | 4.11 | 104 | eP | 17 32.11 | -0.5 |
| HDW | 4.19 | 109 | eP | 17 34.34 | 0.6 |
| | | | eS | 18 22.68 | |
| GMW | 4.39 | 109 | eP | 17 36.00 | -0.6 |
| CMW | 4.55 | 97 | eP | 17 39.00 | 0.0 |
| MBW | 4.64 | 92 | eP | 17 40.42 | 0.2 |
| BMW | 4.68 | 123 | eP | 17 40.87 | 0.1 |
| JCW | 4.73 | 99 | eP | 17 41.24 | -0.2 |
| APW | 4.91 | 118 | eP | 17 43.78 | -0.1 |
| HTW | 4.94 | 103 | eP | 17 44.32 | -0.1 |
| RPW | 4.94 | 96 | eP | 17 44.16 | -0.3 |
| RMW | 5.04 | 107 | eP | 17 45.77 | -0.1 |
| LMW | 5.10 | 117 | eP | 17 46.89 | 0.1 |
| RVC | 5.16 | 113 | eP | 17 47.79 | 0.3 |
| KOSW | 5.27 | 118 | eP | 17 48.87 | -0.3 |
| TDL | 5.32 | 119 | eP | 17 49.60 | -0.3 |
| FL2 | 5.33 | 121 | eP | 17 50.07 | 0.0 |
| FMW | 5.34 | 112 | eP | 17 50.16 | -0.1 |
| LON | 5.35 | 114 | eP | 17 50.00 | -0.2 |
| CWZ | 5.36 | 117 | eP | 17 50.45 | 0.1 |
| SHW | 5.40 | 121 | eP | 17 50.00 | -1.0 |
| PNT | 6.09 | 85 | eP | 18 00.00 | -0.6 |
| | 0.6s | 13.00nm | | 4.9mb | |
| DPW | 7.23 | 96 | eP | 18 15.00 | -1.7 |
| FHC | 9.06 | 156 | ePc | 18 40.40 | -1.7 |
| WDC | 9.70 | 150 | ePc | 18 51.40 | 0.5 |
| MIN | 10.23 | 147 | ePc | 18 58.00 | -0.3 |
| SES | 11.62 | 77 | eP | 19 16.00 | -1.3 |
| KVN | 12.74 | 138 | eP | 19 36.00 | 3.6X |
| TNP | 13.92 | 138 | eP | 19 50.00 | 1.9 |
| BW06 | 14.88 | 108 | eP | 20 03.00 | 2.4 |
| YKA | 15.53 | 25 | P | 20 09.30 | 0.5 |
| YKC | 15.56 | 26 | eP | 20 08.00 | -1.1 |
| FFC | 17.45 | 61 | eP | 20 32.00 | -1.2 |
| | 0.8s | 9.00nm | | 4.0mb X | |
| FFC | 17.45 | 61 | eP | 20 37.00 | 3.8X |
| | 0.6s | 23.00nm | | 4.5mb | |
| INK | 19.34 | 355 | eP | 20 48.00 | -8.3X |
| ALO | 21.80 | 122 | eP | 21 24.00 | 1.5 |
| | 0.9s | 3.15nm | | 3.7mb | |

S.D. = 0.9 on 38 of 41 obs.

FEB 28, 1989 12h 20m 16.20±0.30s
10.286 S ± 5.6km 161.514 E ± 5.6km

DEPTH = 81.1km (3 depth phases)
4.8mb (7 obs.)

SOLOMON ISLANDS (193)

| | | | | | |
|-----|-------|----------|------|----------|-------|
| HNR | 1.76 | 299 | ePc | 20 45.00 | -0.4 |
| VSG | 2.05 | 300 | eP | 20 45.00 | -4.4X |
| | | | eS | 21 08.00 | |
| PAA | 7.15 | 303 | eP | 22 01.00 | 0.7 |
| | | | eS | 23 25.00 | |
| PVC | 9.92 | 139 | iPc | 22 38.00 | -0.1 |
| RAB | 11.07 | 302 | e(P) | 22 55.00 | 1.4 |
| DZM | 12.64 | 159 | iPd | 23 15.20 | 0.8 |
| | | | iS | 25 32.00 | |
| PMG | 14.18 | 272 | e(P) | 23 36.00 | 1.5 |
| CTA | 17.64 | 235 | iPd | 24 19.20 | 0.9 |
| | 1.5s | 144.44nm | | 5.0mb | |
| | | | i | 24 33.80 | |
| | | | i | 24 57.50 | |
| | | | i | 26 54.00 | |
| | | | eS | 27 57.50 | |
| | | | i | 29 53.00 | |

| | | | | | |
|-----|-------|-----|------|----------|-----|
| BRS | 18.90 | 205 | iPc | 24 33.70 | 0.4 |
| | | | i | 24 41.20 | |
| | | | e(S) | 29 30.20 | |
| | | | iScP | 29 46.40 | |
| | | | eScs | 34 55.00 | |

| | | | | | |
|-----|-------|-----|----|----------|-------|
| RMQ | 20.13 | 215 | eP | 24 53.00 | 6.8X |
| | | | e | 24 55.00 | 8kmX |
| COO | 22.09 | 203 | eP | 25 07.00 | 1.1 |
| OIS | 23.43 | 242 | eP | 25 19.00 | 0.0 |
| | | | e | 25 33.00 | 59kmX |

| | | | | | |
|-----|-------|-----|----|----------|------|
| CMS | 25.62 | 212 | eP | 25 42.00 | 2.2 |
| BWA | 26.85 | 205 | eP | 25 49.80 | -1.3 |
| CAN | 27.41 | 203 | eP | 25 54.00 | -2.1 |
| WB5 | 27.85 | 247 | eP | 25 58.50 | -1.8 |
| | | | e | 26 17.20 | 82km |
| | | | e | 25 58.50 | -2.2 |

| | | | | | |
|------|-------|--------|----|----------|--------|
| WRA | 27.89 | 247 | Pc | 25 58.50 | -2.2 |
| | 0.6s | 3.60nm | | 4.2mb | |
| TOO | 30.76 | 205 | eP | 26 27.00 | 0.9 |
| WARB | 36.55 | 240 | eP | 27 06.00 | -10.0X |
| MRWA | 46.45 | 239 | eP | 28 35.50 | -1.4 |
| CHG | 68.13 | 295 | eP | 31 11.00 | 0.9 |

| | | | | | |
|-----|-------|---------|-----|----------|------|
| SVW | 78.74 | 20 | iPd | 32 11.30 | 0.2 |
| TTA | 79.96 | 18 | P | 32 17.40 | -0.3 |
| | 0.8s | 15.69nm | | 5.0mb | |
| PMR | 81.33 | 22 | eP | 32 24.00 | -0.8 |
| | 1.0s | 17.50nm | | 4.9mb | |

| | | | | | |
|-----|-------|--------|-------|----------|------|
| IMA | 82.94 | 17 | eP | 32 33.30 | 0.0 |
| | 0.9s | 7.30nm | | 4.6mb | |
| GKN | 83.41 | 300 | P | 32 35.00 | -1.5 |
| FBA | 83.95 | 19 | eP | 32 36.90 | -1.3 |
| WDC | 86.15 | 48 | ePKPc | 32 50.50 | 0.8 |
| PRI | 86.34 | 52 | ePKPc | 32 55.80 | 4.9X |

| | | | | | |
|-----|-------|----|-------|----------|-----|
| ORV | 86.63 | 49 | ePKPc | 32 52.50 | 0.4 |
| CMB | 87.05 | 51 | ePKPc | 32 54.60 | 0.4 |
| FRI | 87.30 | 52 | ePKPc | 32 56.10 | 0.8 |
| GMW | 88.04 | 41 | P | 32 58.70 | 0.0 |
| RMW | 88.65 | 41 | P | 33 01.80 | 0.1 |
| KVN | 89.05 | 50 | P | 33 04.30 | 0.4 |

| | | | | | |
|-----|-------|--------|----|----------|------|
| | | | pP | 33 26.70 | 82km |
| TNP | 89.49 | 51 | P | 33 06.50 | 0.4 |
| | 1.0s | 4.67nm | | 4.6mb | |
| | | | pP | 33 28.30 | 80km |

| | | | | | |
|-----|-------|---------|----|----------|------|
| PNT | 90.56 | 40 | eP | 33 10.00 | -0.5 |
| INK | 90.56 | 20 | eP | 33 09.00 | -1.1 |
| EUR | 90.75 | 50 | iP | 33 12.50 | 0.6 |
| | 0.9s | 20.21nm | | 5.4mb | |

| | | | | | |
|-----|--------|--------|-------|----------|-------|
| DPW | 91.11 | 42 | P | 33 12.90 | -0.2 |
| HPI | 93.71 | 46 | P | 33 26.40 | 0.9 |
| YKA | 96.22 | 28 | P | 33 35.40 | -0.8 |
| BNG | 142.84 | 264 | ePKPd | 39 37.10 | -6.0X |
| | 0.6s | 8.00nm | | | |

| | | | | | |
|--|--|--|----|----------|--|
| | | | ic | 43 48.50 | |
| | | | id | 44 20.90 | |

S.D. = 1.1 on 38 of 43 obs.

* FEB 28, 1989 12h 23m 57.2

| | | | | | | | | | | | | | | | | | |
|-----------------------------------|--------|-----------|-------|----------|-------|------|-------|-----|------|----------|--------|------|-------|----------|------|----------|-------|
| PMG | 36.91 | 287 | eP | 30 47.00 | 5.0X | BMA | 15.96 | 92 | iPc | 05 15.90 | 0.3 | LDN | 68.28 | 345 | P | 12 02.00 | -1.8 |
| WB5 | 44.92 | 265 | eP | 31 10.00 | -1.3 | RDJ | 16.80 | 93 | iPd | 05 24.40 | 0.7 | MIM | 68.37 | 354 | P | 12 04.20 | 0.0 |
| WRA | 44.92 | 265 | Pd | 32 09.70 | -1.8 | ATB | 21.64 | 26 | Pc | 06 07.80 | -1.2 | RSNY | 68.38 | 350 | P | 12 02.50 | -1.9 |
| TNP | 83.50 | 43 | P | 32 16.20 | -0.4 | ITR | 26.29 | 61 | iPc | 06 49.20 | -1.4 | ELF | 1.0s | 620.00nm | | 6.1mb | |
| KVN | 83.54 | 42 | P | 32 09.20 | -1.3 | BOG | 30.19 | 334 | iPd | 07 24.50 | -0.1 | CBM | 68.46 | 345 | P | 12 03.45 | -1.4 |
| ALQ | 88.99 | 51 | eP | 32 09.20 | -1.8 | FUQ | 30.84 | 336 | eP | 11 43.00 | -2.1 | CER | 69.97 | 355 | P | 12 13.60 | -0.1 |
| 8W06 | 90.97 | 43 | P | 36 59.20 | -0.3 | BMG | 32.08 | 338 | eP | 07 28.00 | -2.1 | | 70.28 | 119 | iPc | 12 21.50 | 5.4X |
| CHTO | 92.06 | 290 | eP | 36 23.50 | 0.1 | TPP | 33.22 | 0 | eP | 07 32.50 | -7.7X | | 1.0s | 250.00nm | | 5.7mb | |
| NAO | 142.70 | 353 | PKP | 36 23.60 | 0.1 | TBH | 33.39 | 1 | eP | 07 53.03 | 3.3X | STJ | 70.79 | 6 | eP | 12 22.00 | 2kmX |
| HFS | 143.01 | 351 | (PKP) | 36 50.00 | -0.4 | CUM | 33.48 | 355 | iP | 07 53.83 | 2.7X | ALQ | 71.80 | 322 | iPd | 12 17.00 | -1.4 |
| MLR | 151.44 | 325 | ePKP | 07 51.00 | 0.0 | TRN | 33.55 | 0 | eP | 12 51.00 | 0.0 | | 1.0s | 242.50nm | | 5.7mb | |
| CLL | 151.54 | 346 | iPKPc | 07 53.74 | 1.3 | TCE | 33.60 | 359 | eP | 07 53.74 | 1.3 | POF | 71.91 | 115 | iPc | 14 24.00 | 575km |
| BRG | 151.73 | 345 | iPKP | 08 10.03 | -3.1X | FCV | 36.05 | 0 | eP | 08 10.03 | -3.1X | | 0.7s | 82.19nm | | 5.4mb | |
| S.D. = 1.4 on 10 of 17 obs. | | | | | | SVB | 36.16 | 0 | eP | 08 13.63 | -0.4 | GLD | 74.69 | 326 | P | 12 25.00 | -0.5 |
| FEB 28, 1989 13h 01m 57.64±0.13s | | | | | | SVV | 36.21 | 0 | eP | 08 14.78 | 0.4 | GOL | 74.73 | 326 | iPd- | 12 41.70 | 0.6 |
| 23.113 S ± 3.2km 61.465 W ± 3.4km | | | | | | SSV | 36.22 | 0 | eP | 08 16.24 | 1.7 | | 0.9s | 150.21nm | | 5.5mb | |
| DEPTH = 569.0km (8 depth phases) | | | | | | UPA | 36.47 | 329 | eP | 08 15.20 | -1.4 | | | | | | |
| 5.6mb (78 obs.) | | | | | | SLB | 36.71 | 1 | eP | 08 19.02 | 0.4 | | | | | | |
| PARAGUAY (126) | | | | | | BIM | 37.40 | 1 | eP | 13 20.48 | 0.0 | GLA | 75.55 | 316 | eP | 15 23.20 | |
| CENTROID, MOMENT TENSOR (HRV) | | | | | | MVM | 37.44 | 1 | eP | 08 24.19 | 0.0 | IKP | 76.12 | 315 | eP | 21 34.00 | |
| Data Used: GDSN | | | | | | DVD | 37.48 | 324 | iPc | 08 24.08 | -0.5 | AVE | 76.15 | 44 | iP | 24 54.00 | |
| L.P.B.: 15S, 40C M.W.: 15S, 31C | | | | | | FDF | 37.61 | 0 | eP | 08 26.60 | 1.7 | FRS | 76.26 | 117 | iPc | 12 46.00 | -0.1 |
| Centroid Location: | | | | | | CRM | 37.64 | 1 | eP | 08 25.59 | -0.4 | | 0.9s | 184.87nm | | 5.5mb | |
| Origin Time 13:02: 4.2 0.1 | | | | | | DSC | 38.09 | 0 | eP | 08 25.60 | -0.5 | BAR | 76.51 | 315 | eP | 12 51.00 | -0.1 |
| Lat 23.23S 0.02 Lon 61.59W 0.01 | | | | | | DSVT | 38.11 | 0 | eP | 08 29.74 | 0.0 | CPE | 76.91 | 315 | eP | 12 56.00 | 2.8 |
| Dep 589.7 1.0 Half-duration 6.8 | | | | | | DTMT | 38.11 | 0 | eP | 08 29.67 | -0.3 | TPC | 77.01 | 316 | eP | 12 54.00 | 0.2 |
| Moment Tensor; Scale 10**18 Nm | | | | | | DPMT | 38.14 | 0 | eP | 08 30.01 | 0.0 | PLM | 77.05 | 315 | eP | 12 55.00 | 0.8 |
| Mrr=-4.56 0.06 Mtt=-1.09 0.07 | | | | | | MDN | 38.19 | 0 | eP | 08 30.07 | -0.1 | SCH | 77.74 | 357 | ePd | 12 56.80 | -0.4 |
| Mff= 5.65 0.08 Mrt= 0.89 0.07 | | | | | | BBL | 38.40 | 360 | eP | 08 30.70 | 0.0 | | 0.7s | 119.00nm | | 5.4mb | |
| Mrf=-4.96 0.07 Mtf= 0.19 0.08 | | | | | | MGG | 38.79 | 0 | eP | 08 31.70 | -0.7 | IFR | 77.77 | 45 | iPd | 12 58.50 | 0.5 |
| Principal Axes: | | | | | | PAG | 38.90 | 360 | eP | 08 34.91 | -0.6 | RVR | 77.79 | 315 | eP | 12 57.00 | -0.9 |
| T Val= 7.67 Plg=22 Azm= 89 | | | | | | SFG | 39.12 | 0 | eP | 08 35.90 | -0.6 | CIS | 78.10 | 314 | eP | 13 02.40 | 2.8 |
| N -0.95 8 356 | | | | | | DEG | 39.19 | 1 | eP | 08 37.50 | -0.7 | GSC | 78.24 | 317 | eP | 13 03.70 | 3.3X |
| P -6.71 66 247 | | | | | | MGH | 39.59 | 359 | eP | 08 37.56 | -1.2 | MWC | 78.37 | 315 | eP | 13 01.00 | -0.2 |
| Best Double Couple: Mo=7.2*10**18 | | | | | | BPA | 39.91 | 359 | eP | 08 40.80 | -1.3 | PAS | 78.40 | 315 | iPd | 13 01.50 | 0.4 |
| NP1: Strike=194 Dip=24 Slip=-70 | | | | | | ANG | 40.02 | 359 | eP | 08 43.70 | -1.0 | | | | | | |
| NP2: 352 68 -99 | | | | | | CPB | 40.50 | 359 | eP | 08 43.30 | -2.2 | | | | | | |
| HJA | 3.63 | 268 | iPc | 08 47.01 | -2.3 | SJG | 41.23 | 353 | iP | 08 47.01 | -2.3 | BFS | 78.42 | 114 | eP | 13 02.50 | -1.6 |
| ITB | 6.84 | 106 | eP | 08 48.00 | -1.7 | MGP | 41.24 | 352 | iP | 14 12.67 | | SBB | 78.51 | 316 | eP | 12 59.90 | -1.8 |
| ITB7 | 6.95 | 108 | eP | 05 52.00 | | CSB | 41.40 | 353 | iP | 08 53.30 | -1.8 | KSR | 78.87 | 113 | iPc | 12 59.00 | 5.9mb |
| CCH | 7.20 | 322 | iPc | 08 54.20 | -0.2 | MCP | 41.64 | 352 | iP | 08 54.20 | -2.3 | | 1.0s | 100.00nm | | 5.2mb | |
| CNCB | 8.77 | 315 | iPc | 09 02.00 | 0.0 | AIA | 42.17 | 182 | e(P) | 08 56.00 | -2.4 | RSON | 78.95 | 340 | P | 13 02.30 | -1.3 |
| LPB | 9.04 | 315 | iPc | 09 02.00 | 0.0 | TPX | 48.33 | 318 | (P) | 09 02.00 | 0.0 | CNIL | 78.97 | 43 | eP | 13 07.00 | 3.0X |
| | 1.0s | 2100.00nm | | 6.3mb X | | OXX | 52.76 | 316 | (P) | 09 50.00 | 0.0 | PRY | 78.99 | 115 | iPc | 13 03.00 | -1.6 |
| ZOBO | 9.26 | 316 | Pc | 10 23.00 | 0.3 | ILSM | 54.59 | 317 | (P) | 10 23.00 | 0.3 | | 0.7s | 25.00nm | | 4.8mb | |
| RTRS | 10.02 | 224 | iPc | 10 23.00 | 0.3 | ACX | 54.66 | 313 | (P) | 10 26.08 | -1.3 | PLAT | 78.99 | 43 | eP | 13 07.50 | 3.3X |
| RTLL | 10.28 | 216 | ePc | 10 26.00 | -1.3 | ITT | 55.21 | 316 | (P) | 11 26.08 | -1.3 | CLC | 79.07 | 317 | eP | 13 04.00 | -0.7 |
| CFA | 10.38 | 214 | ePc | 11 27.00 | -2.3 | III | 55.48 | 315 | (P) | 11 27.64 | -1.2 | OJEN | 79.12 | 43 | eP | 13 02.00 | -2.9 |
| ZON | 10.56 | 216 | iPc | 11 27.00 | -2.3 | IIC | 56.36 | 316 | (P) | 11 27.20 | -1.4 | OJEN | 79.12 | 43 | eP | 13 09.50 | 4.6X |
| RTCB | 10.58 | 216 | iPc | 11 28.30 | -1.1 | CRX | 56.37 | 315 | (P) | 11 28.30 | -1.1 | BW06 | 79.13 | 326 | P | 13 05.00 | 0.0 |
| RTCV | 10.74 | 214 | ePd | 11 28.30 | -1.1 | JSC | 60.10 | 341 | P | 11 29.00 | -0.6 | MOMI | 79.14 | 43 | eP | 13 07.00 | 2.1 |
| MDZ | 11.71 | 212 | iP | 11 29.00 | -0.6 | TKL | 62.15 | 340 | P | 11 40.60 | -1.6 | EVAL | 79.32 | 41 | eP | 13 06.50 | 0.7 |
| | | | | | | LIC | 62.35 | 69 | Pc | 11 42.20 | -0.1 | EJIF | 79.38 | 43 | eP | 13 07.90 | 1.7 |
| JACH | 12.48 | 218 | iPd | 11 44.00 | -0.9 | TIC | 62.57 | 69 | Pc | 13 41.40 | 597kmX | TBI | 79.43 | 249 | iP | 13 09.10 | 2.4 |
| FCH | 12.80 | 215 | iPc | 11 44.00 | -0.9 | BLA | 62.60 | 343 | P | 11 43.00 | -0.8 | ISA | 79.53 | 316 | eP | 13 07.00 | -0.1 |
| PEL | 12.88 | 217 | iPc | 11 44.00 | -0.9 | KIC | 62.67 | 69 | Pc | 11 43.00 | -0.8 | LIJA | 79.70 | 43 | eP | 13 10.00 | 2.1 |
| SAN | 13.10 | 216 | iPc | 11 44.00 | -0.9 | RSCP | 62.70 | 338 | P | 11 52.50 | -0.7 | SYF | 79.82 | 314 | eP | 13 10.00 | 1.3 |
| VAO | 13.35 | 92 | iPc | 11 52.50 | -1.3 | CBN | 62.80 | 346 | eP | 11 51.00 | -1.2 | SLR | 80.08 | 114 | iPc | 13 09.00 | -1.3 |
| TACH | 13.40 | 216 | iPc | 11 52.50 | -1.3 | CVL | 62.83 | 345 | P | 11 55.40 | -0.2 | | 0.9s | 117.65nm | | 5.3mb | |
| CHCH | 13.46 | 215 | iPc | 11 55.40 | -0.2 | PRIN | 64.35 | 349 | P | 11 56.80 | 0.6 | Z | 19s | 6.94um | | 6.0Msz | |
| BAO | 14.72 | 62 | eP | 11 56.80 | 0.6 | GMTN | 64.76 | 349 | iP | 12 19.60 | 89kmX | MAL | 80.22 | 43 | ePg | 13 13.30 | 2.8 |
| ITA | 15.48 | 91 | iPc | 12 19.60 | 89kmX | PNJ | 64.77 | 349 | iP | 12 00.30 | -0.1 | TNP | 80.26 | 319 | P | 13 11.60 | 0.6 |
| | | | | | | RKT | 66.86 | 254 | iP | 12 01.50 | -1.8 | | 0.8s | 80.88nm | | 5.2mb | |
| | | | | | | SPA | 67.03 | 180 | iPd | | | | | | | | |
| | | | | | | EMM | 67.74 | 355 | P | | | | | | | | |
| | | | | | | DLA | 68.21 | 344 | P | | | | | | | | |

28d 13h

| | | | | | | | | | | | | | | | | | | | | |
|------|-------|----------|------|------|-------|--------|------|-------|----------|-----|-------|--------|-------|--------|---------|---------|--------|-------|---------|-------|
| TAF | 80.34 | 46 | eP | 13 | 12.00 | 0.7 | FRB | 86.75 | 357 | eP | 13 | 42.00 | -0.1 | | | e | 17 | 53.80 | | |
| EHOR | 80.38 | 42 | eP | 13 | 11.60 | 0.3 | EPF | 86.93 | 40 | eP | 13 | 42.60 | -1.0 | | | e | 18 | 07.80 | | |
| EUR | 80.41 | 320 | iP | 13 | 12.40 | 0.6 | | 0.8s | 25.50nm | | | | 5.0mb | | SKS | 23 | 52.00 | | | |
| | 0.2s | 121.69nm | | | | 6.0mb | PTZ | 87.03 | 104 | iPd | 13 | 46.00 | 1.2 | | S | 24 | 30.00 | | | |
| RUV | 80.51 | 258 | iP | 13 | 14.30 | 1.9 | | | i | 14 | 08.00 | 81kmX | | | e | 27 | 19.00 | | | |
| | 1.0s | 240.00nm | | | | 5.6mb | | | i | 15 | 50.00 | | BSF | 93.36 | 39 | eP | 14 | 12.80 | -0.4 | |
| PTO | 80.56 | 38 | eP | 13 | 13.30 | 1.2 | | | i | 17 | 10.80 | | | 1.0s | 37.60nm | | | 5.5mb | | |
| | | eS | | | | 22 | LFF | 88.27 | 39 | eP | 13 | 49.80 | 0.1 | SNF | 93.38 | 36 | P | 14 | 13.60 | 0.5 |
| ATEJ | 80.59 | 43 | iPd | 13 | 13.70 | 1.1 | EDM | 88.29 | 332 | iPd | 13 | 49.40 | -0.3 | VAI | 93.54 | 41 | P | 14 | 13.30 | -0.6 |
| AL0J | 80.65 | 43 | iPd | 13 | 14.00 | 1.1 | LON | 88.29 | 323 | P | 13 | 49.30 | -0.6 | CDF | 93.94 | 38 | eP | 14 | 15.40 | -0.4 |
| MAW | 80.70 | 161 | eP | 13 | 12.50 | 0.0 | LPO | 88.38 | 39 | eP | 13 | 50.30 | 0.0 | | 1.0s | 60.00nm | | | 5.7mb | |
| VAH | 80.71 | 257 | iP | 13 | 16.00 | 2.5 | | 1.0s | 69.60nm | | | | 5.5mb | WLF | 93.95 | 37 | P | 14 | 16.60 | 0.9 |
| | 1.0s | 425.00nm | | | | 5.9mb | PNT | 88.69 | 326 | ePd | 13 | 52.00 | 0.4 | MEM | 94.36 | 36 | P | 14 | 17.90 | 0.4 |
| AAPN | 80.76 | 43 | iPd | 13 | 13.90 | 0.4 | | 1.0s | 211.00nm | | | | 6.0mb | ENN | 94.40 | 36 | eP | 14 | 17.50 | -0.2 |
| TPT | 80.80 | 258 | iP | 13 | 16.60 | 2.7 | MFF | 88.74 | 37 | eP | 13 | 51.80 | 0.0 | | 1.0s | 32.00nm | | | 5.5mb | |
| | 1.0s | 365.00nm | | | | 5.8mb | | 1.0s | 100.00nm | | | | 5.7mb | YKC | 95.07 | 338 | ePd | 14 | 20.00 | -0.5 |
| APHE | 80.81 | 43 | iPd | 13 | 15.00 | 1.2 | BMW | 88.91 | 322 | P | 13 | 53.00 | 0.3 | | 0.8s | 43.00nm | | | 5.7mb | |
| ACHM | 80.82 | 43 | iP | 13 | 14.00 | 0.3 | | | pP | 16 | 00.00 | 584kmX | | YKA | 95.12 | 338 | P | 14 | 21.10 | 0.4 |
| CRT | 81.02 | 43 | eP | 13 | 15.00 | 0.3 | RJF | 88.93 | 39 | eP | 13 | 52.50 | -0.3 | FVI | 96.33 | 42 | P | 14 | 26.30 | -0.1 |
| ASMO | 81.03 | 43 | iP | 13 | 13.00 | -1.8 | | 0.9s | 45.80nm | | | | 5.4mb | GRF | 96.83 | 39 | eP | 14 | 30.00 | 1.3 |
| PMO | 81.04 | 258 | iP | 13 | 17.60 | 2.5 | ECB | 88.97 | 30 | eP | 13 | 51.40 | -1.3 | | 1.1s | 57.00nm | | | 5.8mb | |
| | 1.0s | 240.00nm | | | | 5.7mb | ECP | 89.03 | 30 | eP | 13 | 51.60 | -1.4 | KBA | 96.89 | 42 | ePc | 14 | 29.00 | -0.3 |
| MNA | 81.06 | 318 | ePd | 13 | 15.80 | 0.8 | CAF | 89.04 | 39 | eP | 13 | 53.50 | 0.2 | | 1.2s | 13.50nm | | | 5.1mb | |
| AFC | 81.09 | 43 | eP | 13 | 15.50 | 0.3 | LPF | 89.10 | 36 | eP | 13 | 52.70 | -0.7 | | | e | 16 | 37.00 | 585kmX | |
| FRI | 81.13 | 316 | ePd | 13 | 14.50 | -0.7 | | 1.1s | 78.10nm | | | | 5.6mb | | | e | 18 | 32.00 | | |
| PRI | 81.23 | 315 | iPd | 13 | 16.30 | 0.4 | LWI | 89.38 | 92 | iPc | 13 | 56.80 | 1.0 | | | e | 24 | 08.00 | | |
| TVO | 81.24 | 254 | iP | 13 | 18.60 | 2.4 | DCN | 89.39 | 29 | iPc | 13 | 55.20 | 0.6 | | | i | 24 | 13.50 | | |
| | 1.0s | 295.00nm | | | | 5.8mb | | 1.3s | 230.00nm | | | | 5.9mb | MOX | 97.49 | 38 | eP | 14 | 32.00 | 0.3 |
| EPLA | 81.31 | 40 | eP | 13 | 16.70 | 0.6 | GRR | 89.41 | 36 | eP | 13 | 54.20 | -0.7 | | 1.2s | 28.00nm | | | 5.5mb | |
| KVN | 81.41 | 319 | P | 13 | 17.00 | 0.2 | | 1.0s | 80.00nm | | | | 5.6mb | Z | 15s | 1.30um | | | 5.5MsZx | |
| | | pP | | | | 15 | ETA | 89.45 | 30 | eP | 13 | 52.90 | -2.0 | | | epP | 16 | 35.00 | 556kmX | |
| PPN | 81.49 | 255 | iP | 13 | 19.60 | 2.2 | LSF | 89.48 | 38 | eP | 13 | 55.20 | -0.1 | | | eSKS | 24 | 16.00 | | |
| | 1.0s | 75.00nm | | | | 5.2mb | | 0.9s | 44.80nm | | | | 5.4mb | | eS | 25 | 12.00 | | | |
| EBAN | 81.50 | 42 | eP | 13 | 17.50 | 0.4 | DLE | 89.68 | 29 | iPd | 13 | 56.10 | 0.1 | | | eSP | 26 | 35.00 | | |
| PAE | 81.57 | 254 | iP | 13 | 20.10 | 2.3 | | 1.0s | 121.00nm | | | | 5.8mb | | eSS | 32 | 00.00 | | | |
| | 1.0s | 160.00nm | | | | 5.5mb | FLN | 89.84 | 35 | eP | 13 | 56.20 | -0.6 | | | e | 42 | 20.00 | | |
| PPT | 81.60 | 255 | iP | 13 | 20.40 | 2.4 | | 1.0s | 56.00nm | | | | 5.4mb | KHC | 97.95 | 40 | iPc | 14 | 34.40 | 0.5 |
| | 1.0s | 180.00nm | | | | 5.6mb | TCF | 89.89 | 38 | eP | 13 | 56.80 | -0.4 | | 1.0s | 7.50nm | | | 5.0mb | |
| Z | 19s | 11.00um | | | | 6.2MsZ | | 0.9s | 34.30nm | | | | 5.3mb | | | e | 15 | 04.70 | 115kmX | |
| LLA | 81.70 | 316 | ePd | 13 | 18.40 | 0.3 | LBL | 89.90 | 40 | P | 13 | 58.26 | 1.1 | CLL | 98.58 | 38 | iP | 14 | 37.80 | 1.2 |
| AFR | 81.79 | 254 | iP | 13 | 21.10 | 2.2 | DMU | 89.92 | 29 | iPc | 13 | 56.50 | -0.6 | | 1.8s | 59.00nm | | | 5.7mb | |
| | 1.0s | 190.00nm | | | | 5.6mb | | 1.0s | 139.00nm | | | | 5.8mb | | | epP | 16 | 46.00 | 587kmX | |
| PRS | 81.80 | 315 | ePd | 13 | 18.40 | -0.2 | LDF | 89.93 | 36 | eP | 13 | 56.60 | -0.6 | | | iSKS | 24 | 19.00 | | |
| SAO | 82.11 | 315 | e(P) | 13 | 20.00 | -0.2 | | 1.2s | 89.20nm | | | | 5.6mb | | PKKP | 31 | 33.00 | | | |
| CMB | 82.19 | 317 | ePd | 13 | 20.80 | 0.2 | PYM | 90.05 | 39 | P | 13 | 57.53 | -0.5 | PRU | 98.88 | 39 | P | 14 | 39.00 | 1.0 |
| ERUA | 82.21 | 37 | eP | 13 | 21.00 | 0.5 | MAF | 90.06 | 39 | eP | 13 | 57.90 | 0.0 | | | e | 24 | 24.00 | | |
| BUL | 82.39 | 109 | iPc | 13 | 21.60 | -0.5 | | 0.9s | 32.70nm | | | | 5.3mb | BRG | 98.92 | 38 | eP | 14 | 39.40 | 1.3 |
| | | iPp | | | | 15 | YRH | 90.27 | 31 | eP | 13 | 58.50 | -0.2 | | 1.1s | 16.00nm | | | 5.4mb | |
| | | iS | | | | 22 | AGO | 90.29 | 39 | P | 13 | 59.59 | 0.6 | AVY | 99.25 | 115 | eP | 14 | 41.58 | 0.9 |
| TOL | 82.40 | 41 | iPd | 13 | 24.00 | 2.4 | PGC | 90.31 | 324 | eP | 14 | 00.00 | 1.1 | KSP | 100.26 | 39 | ePdiff | 14 | 44.50 | 0.3 |
| | 1.2s | 250.00nm | | | | 5.6mb | | 0.8s | 182.00nm | | | | 6.1mb | | | e | 18 | 52.00 | | |
| | | iS | | | | 22 | BGF | 90.41 | 38 | eP | 13 | 59.50 | 0.0 | NAO | 101.72 | 28 | Pdiff | 14 | 51.20 | 0.8X |
| | | iS | | | | 23 | | 0.9s | 32.70nm | | | | 5.3mb | | 1.1s | 7.40nm | | | 5.2mb | |
| BNG | 82.57 | 82 | iPc | 13 | 22.90 | -0.1 | PLDF | 90.53 | 39 | P | 14 | 00.69 | 0.5 | SLL | 102.67 | 29 | ePdiff | 14 | 55.50 | 0.8 |
| | 1.6s | 143.00nm | | | | 5.3mb | AVF | 90.83 | 38 | eP | 14 | 01.30 | -0.1 | | 0.9s | 7.10nm | | | 5.3mb | |
| | | id | | | | 15 | LRG | 90.83 | 42 | eP | 14 | 02.10 | 0.6 | DAG | 102.94 | 9 | ePdiff | 14 | 56.00 | 0.5 |
| | | id | | | | 16 | | 0.9s | 87.00nm | | | | 5.8mb | INK | 104.88 | 339 | ePdiff | 15 | 03.00 | -1.3 |
| MHC | 82.58 | 316 | ePd | 13 | 23.40 | 0.8 | LMR | 90.86 | 43 | eP | 14 | 02.10 | 0.5 | MBC | 105.18 | 348 | ePdiff | 15 | 06.00 | 0.5 |
| EVIA | 82.58 | 43 | eP | 13 | 22.80 | 0.2 | | 0.9s | 52.40nm | | | | 5.6mb | | 0.6s | 6.00nm | | | 5.6mb | |
| GCC | 82.62 | 315 | ePd | 13 | 22.90 | 0.2 | SMF | 91.03 | 39 | eP | 14 | 02.40 | 0.0 | MBC | 105.18 | 348 | ePKP | 19 | 33.00 | 16.9X |
| LRM | 82.74 | 327 | ePd | 13 | 24.00 | 0.6 | FRF | 91.06 | 42 | eP | 14 | 03.00 | 0.4 | | 1.1s | 40.00nm | | | | |
| EMON | 82.79 | 37 | eP | 13 | 24.30 | 0.9 | | 0.8s | 22.50nm | | | | 5.2mb | ALE | 105.43 | 360 | ePdiff | 15 | 06.00 | -0.5 |
| GUD | 82.81 | 40 | eP | 13 | 24.20 | 0.4 | SSF | 91.06 | 38 | eP | 14 | 02.30 | -0.2 | | 0.4s | 2.00nm | | | 5.3mb | |
| PCC | 83.15 | 316 | ePd | 13 | 25.40 | 0.1 | | 1.1s | 62.00nm | | | | 5.6mb | ALE | 105.43 | 360 | ePKP | 19 | 26.00 | 9.5X |
| BKS | 83.27 | 316 | ePd | 13 | 27.30 | 1.4 | LBF | 91.29 | 39 | eP | 14 | 03.30 | -0.3 | | 1.2s | 26.00nm | | | | |
| | 1.6s | 875.00nm | | | | 6.1mb | | 1.0s | 42.80nm | | | | 5.4mb | PMR | 108.96 | 330 | ePKP | 19 | 29.80 | 6.2X |
| | | ePP | | | | 16 | CALN | 91.31 | 42 | P | 14 | 04.99 | 1.1 | FMA | 109.14 | 333 | Pdiff | 15 | 24.90 | 1.6 |
| | | eS | | | | 23 | LOR | 91.38 | 38 | eP | 14 | 03.70 | -0.3 | FBA | 109.14 | 333 | ePKP | 19 | 25.10 | 1.2 |
| | | ePPS | | | | 24 | | 1.1s | 48.80nm | | | | 5.4mb | IMA | 111.77 | 334 | ePKP | 19 | 29.50 | 0.5 |
| BRK | 83.29 | 316 | ePd | 13 | 26.50 | 0.5 | REVF | 91.60 | 43 | P | 14 | 06.36 | 1.2 | | 0.9s | 7.80nm | | | | |
| ORV | 83.80 | 318 | ePd | 13 | 28.90 | 0.4 | AURF | 91.65 | 42 | P | 14 | 06.31 | 0.9 | TOO | 114.52 | 203 | ePKP | 19 | 34.00 | -1.1 |
| LSZ | 83.82 | 104 | iPc | 13 | 30.20 | 0.9 | SBF | 91.71 | 42 | eP | 14 | 06.00 | 0.4 | CAN | 115.11 | 207 | ePKP | 19 | 34.90 | -1.4 |
| | | i | | | | 13 | | 0.9s | 91.70nm | | | | 5.8mb | | | e | 20 | 43.80 | | |
| | | i | | | | 15 | AUTN | 91.77 | 42 | P | 14 | 06.94 | 0.8 | | | e | 22 | 18.90 | | |
| | | i | | | | 16 | CVF | 91.96 | 44 | eP | 14 | 07.10 | 0.3 | | | e | 30 | 14.90 | | |
| ECHE | 84.11 | 43 | eP | 13 | 30.30 | 0.2 | LPG | 92.13 | 41 | eP | 14 | 08.50 | 0.7 | BWA | 116.12 | 207 | ePKP | 19 | 37.50 | -0.7 |
| ETOR | 84.18 | 41 | eP | 13 | 31.20 | 0.7 | | 0.9s | 56.30nm | | | | 5.6mb | | | e | 20 | 39.00 | | |
| MIN | 84.34 | 318 | ePd | 13 | 30.50 | -0.8 | GDH | 92.28 | 3 | iPd | 14 | 08.30 | 0.7 | | | e | 30 | 10.20 | | |
| FFC | 84.95 | 338 | iPd | 13 | 33.50 | -0.3 | | 1.2s | 71.88nm | | | | 5.6mb | SLY | 116.43 | 61 | iPKP | 19 | 38.00 | -0.7 |
| | 1.1s | 341.00nm | | | | 5.9mb | | | e | | | 16 | 16.00 | 584kmX | | e | 22 | 43.00 | | |
| WDC | 85.05 | 318 | iPd | 13 | 33.50 | -1.1 | | | i | | | 24 | 47.00 | | | iS | 25 | 34.50 | | |
| SES | 85.29 | 331 | ePd | 13 | 34.40 | -1.1 | EKA | 92.52 | 29 | P | 14 | 09.00 | 0.0 | | | i | 26 | 52.00 | | |
| | 0.9s | 323.00nm | | | | 6.0mb | | 1.4s | 77.30nm | | | | 5.6mb | | | iS | 29 | 39.00 | | |
| EBR | 85.74 | 42 | eP | 13</ | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | |
|------|--------|-----|-----------|----|-------|--------|-----|--------|-----|-------------------------------|---------|-------|--------|---|-----------------------------------|-----|-------|-------|-------|--------|
| BRS | 119.88 | 215 | iPKPc | 19 | 44.70 | -0.9 | CN2 | 158.59 | 346 | iPKPd | 20 | 50.00 | -1.1 | CENTRAL CALIFORNIA (39) <BRK>. ML 3.0 (BRK). | | | | | | |
| | | | i(ScS) | 29 | 59.20 | | | | | e | 21 | 28.00 | | SAO | 0.13 | 257 | iPd | 29 | 08.60 | 0.0 |
| STK | 121.03 | 203 | iPKPd | 19 | 47.80 | 0.2 | | | | pPKP | 23 | 00.00 | | | | | iS | 29 | 11.00 | |
| | | | e | 22 | 30.00 | | | | | SKKS | 31 | 00.00 | | LLA | 0.33 | 122 | iPc | 29 | 12.20 | -0.2 |
| RMO | 122.67 | 212 | iPKPd | 19 | 58.50 | 7.6X | NNT | 159.29 | 117 | ePKP | 20 | 54.00 | 1.4 | PRS | 0.46 | 188 | iPd | 29 | 14.50 | -0.6 |
| | | | e | 22 | 41.00 | | BDT | 160.77 | 104 | ePKP | 20 | 53.80 | -0.2 | ARN | 0.59 | 341 | eP | 29 | 17.00 | -0.5 |
| NWAO | 124.26 | 179 | iPKPc | 19 | 53.40 | -0.4 | SNY | 160.87 | 348 | PKPd | 20 | 54.00 | 0.5 | GCC | 0.61 | 293 | ePc | 29 | 16.70 | -1.3 |
| | 0.7s | | 31.00nm | | | | CHG | 161.21 | 100 | iPKPd | 20 | 55.80 | 1.3 | MHC | 0.62 | 333 | iPc | 29 | 17.75 | -0.3 |
| MUN | 125.18 | 178 | iPKPd | 19 | 54.50 | -1.1 | | | | 1.0s | 48.50nm | | | | | eS | 29 | 27.70 | | |
| | 0.5s | | 58.00nm | | | | | | | eS | 27 | 32.00 | | PRI | 0.82 | 142 | iPc | 29 | 22.30 | 0.4 |
| FORR | 125.57 | 190 | ePKP | 19 | 43.00 | -13.4X | HHC | 161.37 | 17 | PKPd | 20 | 55.50 | 1.3 | PCC | 1.12 | 309 | iPc | 29 | 25.70 | -1.2 |
| | | | i | 19 | 55.00 | | | | | e | 21 | 44.00 | | PHAM | 1.20 | 143 | eP | 29 | 27.40 | -0.8 |
| KLB | 125.60 | 179 | iPKPc | 19 | 56.00 | -0.5 | | | | PP | 25 | 19.00 | | FRI | 1.28 | 81 | ePc | 29 | 29.20 | -0.5 |
| | 0.7s | | 50.00nm | | | | | | | SKKS | 31 | 12.00 | | | | | eS | 29 | 45.90 | |
| COOL | 126.25 | 183 | iPKPc | 19 | 57.10 | -0.7 | LZH | 161.85 | 41 | PKP | 20 | 56.00 | 1.1 | BKS | 1.32 | 325 | eP | 29 | 28.80 | -1.4 |
| BAL | 126.56 | 178 | iPKPc | 19 | 57.70 | -0.6 | DAV | 162.69 | 204 | ePKP | 20 | 56.00 | -0.1 | BRK | 1.33 | 325 | e(P)d | 29 | 28.40 | -2.0 |
| | 0.5s | | 18.00nm | | | | BJI | 163.01 | 6 | PKP | 20 | 57.00 | 1.3 | ZSP | 1.38 | 326 | eP | 29 | 29.70 | -1.5 |
| MAIO | 127.78 | 61 | iPKPd | 20 | 00.40 | -0.2 | SHK | 163.20 | 316 | iPKP | 20 | 58.00 | 1.9 | CMB | 1.43 | 30 | ePc | 29 | 30.80 | -1.3 |
| | 0.8s | | 27.82nm | | | | | | | 0.9s | 84.03nm | | BCH | 1.88 | 148 | eP | 29 | 36.70 | -1.8 | |
| MRWA | 127.91 | 177 | ePKP | 20 | 00.20 | -0.8 | DL2 | 164.04 | 351 | iPKPd | 20 | 58.00 | 1.3 | | 15 obs. associated | | | | | |
| | | | e | 22 | 28.50 | | | | | e | 21 | 56.00 | | | & FEB 28, 1989 13h 33m 08.09s | | | | | |
| CTA | 129.26 | 214 | iPKPc | 20 | 03.20 | -0.5 | | | | pPKP | 23 | 10.00 | | | 60.530 N 152.788 W | | | | | |
| | 1.3s | | 1837.50nm | | | | | | | PP | 25 | 40.00 | | | DEPTH = 111.8km | | | | | |
| | | | iS | 23 | 27.00 | | TIY | 164.53 | 18 | PKPd | 20 | 58.00 | 0.7 | | SOUTHERN ALASKA (2) | | | | | |
| OIS | 131.98 | 207 | ePKP | 19 | 50.00 | -18.9X | | | | e | 21 | 58.00 | | | <AGS-P>. | | | | | |
| | | | e | 20 | 09.00 | | | | | pPKP | 23 | 12.00 | | | | | | | | |
| QUE | 133.68 | 70 | ePKP | 20 | 00.00 | -12.1X | | | | PP | 25 | 45.00 | | | | | | | | |
| | | | eS | 22 | 49.60 | | | | | SKKS | 31 | 37.00 | | | | | | | | |
| NANU | 134.51 | 176 | ePKP | 20 | 01.00 | -12.6X | | | | SS | 45 | 29.00 | | | | | | | | |
| | | | e | 20 | 11.00 | | CD2 | 164.72 | 56 | ePKP | 20 | 58.40 | 0.7 | RDT | 0.19 | 77 | iP | 33 | 23.44 | 1.1 |
| WRA | 134.51 | 201 | PKPc | 19 | 57.10 | -16.6X | | | | pPKP | 23 | 14.00 | | ILIM | 0.46 | 191 | iP | 33 | 24.41 | -0.8 |
| | 0.5s | | 8.00nm | | | | | | | SKKS | 31 | 37.00 | | | | | iS | 33 | 37.39 | |
| WRA | 134.51 | 201 | PKP | 20 | 24.00 | 10.3X | KMI | 165.44 | 79 | PKPd- | 20 | 59.00 | 0.4 | SPU | 0.75 | 28 | iP | 33 | 26.80 | -0.5 |
| | 0.5s | | 6.90nm | | | | | | | 5.0s | 1.40nm | | NKA | 0.79 | 74 | eP | 33 | 28.66 | 1.0 | |
| WB5 | 134.56 | 201 | ePKP | 19 | 55.10 | -18.7X | XAN | 166.23 | 36 | iPKPd | 20 | 59.40 | 0.6 | CNP | 0.80 | 22 | eP | 33 | 27.58 | -0.4 |
| | | | i | 19 | 58.80 | | | | | pPKP | 23 | 11.40 | | NRJ | 0.89 | 123 | eP | 33 | 28.88 | 0.3 |
| WB5 | 134.56 | 201 | iPKP | 20 | 13.10 | -0.7 | TIA | 166.89 | 5 | PKP | 21 | 00.00 | 0.8 | PDB | 1.02 | 224 | iP | 33 | 29.00 | -0.9 |
| | | | iPP | 22 | 50.00 | | | | | e | 22 | 06.50 | | SLKM | 1.27 | 90 | eP | 33 | 31.94 | -0.8 |
| MBL | 135.98 | 182 | ePKP | 20 | 03.50 | -13.0X | | | | pPKP | 23 | 13.20 | | | | | iS | 33 | 49.80 | |
| PMG | 137.23 | 224 | ePKP | 20 | 10.00 | -9.0X | | | | ePP | 25 | 53.60 | | CNPM | 1.27 | 142 | eP | 33 | 31.94 | -0.8 |
| BOM | 137.24 | 87 | ePKP | 20 | 14.50 | -4.4X | | | | SS | 45 | 47.00 | | SVW | 1.50 | 294 | eP | 33 | 33.68 | -1.8 |
| | | | eS | 23 | 24.00 | | GYA | 168.71 | 70 | PKP | 21 | 00.80 | 0.0 | SEW | 1.72 | 103 | eP | 33 | 36.42 | -1.6 |
| POO | 138.11 | 88 | ePKP | 20 | 26.00 | 5.5X | | | | e | 22 | 20.00 | | PMS | 1.73 | 64 | eP | 33 | 37.54 | -0.8 |
| KOD | 138.77 | 101 | ePKP | 20 | 13.00 | -9.2X | | | | pPKP | 23 | 16.00 | | | | | eS | 34 | 00.32 | |
| GBA | 139.98 | 96 | PKPd | 20 | 13.10 | -10.8X | | | | sPKP | 24 | 20.00 | | PWA | 1.81 | 50 | eP | 33 | 38.41 | -0.7 |
| | 1.0s | | 10.90nm | | | | | | | PP | 26 | 07.00 | | PTE | 1.88 | 78 | eP | 33 | 38.33 | -1.7 |
| KNA | 140.10 | 195 | ePKP | 20 | 15.50 | -8.6X | | | | SKKS | 31 | 52.00 | | PLRM | 2.07 | 57 | eP | 33 | 40.79 | -1.7 |
| | 0.7s | | 53.00nm | | | | | | | SS | 46 | 10.00 | | PME | 2.13 | 57 | eP | 33 | 41.86 | -1.5 |
| | | | e | 23 | 06.00 | | OIZ | 170.93 | 115 | ePKP | 21 | 03.00 | 1.0 | PWL | 2.22 | 79 | P | 33 | 42.36 | -2.1 |
| KSH | 140.54 | 55 | PKP | 20 | 19.00 | -5.5X | | | | pPKP | 23 | 15.00 | | GHO | 2.25 | 55 | eP | 33 | 43.36 | -1.6 |
| HYB | 142.15 | 91 | ePKP | 20 | 22.30 | -5.4X | NJ2 | 171.09 | 358 | iPKPd | 21 | 02.00 | 0.3 | KNK | 2.29 | 65 | eP | 33 | 43.50 | -1.9 |
| | 1.0s | | 95.00nm | | | | | | | pPKP | 23 | 17.00 | | KNIM | 2.51 | 92 | eP | 33 | 44.97 | -3.3 |
| | | | e | 20 | 47.00 | | | | | sPKP | 24 | 23.00 | | SML | 2.51 | 57 | eP | 33 | 46.33 | -2.0 |
| MTN | 142.19 | 200 | iPKPd | 20 | 23.20 | -4.6X | | | | PP | 26 | 15.00 | | KLU | 3.48 | 71 | eP | 33 | 58.61 | -2.8 |
| | | | e | 23 | 13.00 | | | | | SKKS | 32 | 07.00 | | | 22 obs. associated | | | | | |
| NDI | 142.55 | 73 | iPKPd | 20 | 24.20 | -3.9X | SSE | 171.71 | 344 | PKP- | 21 | 02.00 | 0.1 | | FEB 28, 1989 13h 48m 57.03± 0.52s | | | | | |
| | | | eS | 23 | 09.00 | | | | | 1.0s | 61.00nm | | | 7.624 S ± 3.8km 127.399 E ± 5.6km | | | | | | |
| JAY | 146.59 | 223 | ePKPc | 20 | 43.00 | 7.7X | | | | Z 24s | 2.00um | | 6.8Msz | DEPTH = 196.4 ± 5.0 km | | | | | | |
| WMO | 147.30 | 43 | iPKPd | 20 | 36.00 | 0.4 | | | | E 12s | 1.70um | | | 5.0mb (15 obs.) | | | | | | |
| TRT | 148.83 | 169 | ePKPc | 20 | 38.00 | -0.7 | | | | | pP | 21 | 28.00 | | BANDA SEA (280) | | | | | |
| | 0.8s | | 72.90nm | | | | | | | sP | 23 | 14.00 | | | CENTROID, MOMENT TENSOR (HRV) | | | | | |
| GKN | 149.10 | 74 | PKP | 20 | 39.10 | 0.1 | | | | ePPP | 24 | 32.00 | | | Data Used: GDSN | | | | | |
| DMN | 149.52 | 75 | PKP | 20 | 40.00 | 0.2 | | | | PcS | 26 | 16.00 | | | L.P.B.: 9S, 17C | | | | | |
| KKN | 149.67 | 74 | PKP | 20 | 40.10 | 0.1 | | | | i | 28 | 20.00 | | | Centroid Location: | | | | | |
| PKI | 149.79 | 75 | PKP | 20 | 40.20 | -0.1 | | | | eScS | 30 | 08.00 | | | Origin Time 13:48:41.1 2.2 | | | | | |
| AAI | 151.74 | 201 | ePKPc | 20 | 49.50 | 6.4X | | | | eSS | 31 | 46.00 | | | Lat 8.39S 0.18 Lon 128.08E 0.15 | | | | | |
| MKS | 151.83 | 182 | ePKPc | 20 | 46.00 | 2.8X | WHN | 171.71 | 26 | PKP | 21 | 03.00 | 1.0 | | Dep 263.0 4.1 Half-duration 4.3 | | | | | |
| PSI | 152.20 | 134 | ePKP | 20 | 45.00 | 1.3 | | | | e | 22 | 28.00 | | | Moment Tensor; Scale 10**18 Nm | | | | | |
| SAP | 152.58 | 322 | ePKP | 20 | 45.00 | 1.6 | | | | pPKP | 23 | 18.00 | | | Mrr=-0.47 0.15 Mtt=-0.17 0.18 | | | | | |
| GUA | 153.25 | 254 | ePKP | 20 | 44.00 | -1.1 | | | | ePP | 26 | 22.00 | | | Mff= 0.64 0.26 Mrt= 0.03 0.18 | | | | | |
| GUMO | 153.31 | 254 | ePKP | 20 | 44.50 | -0.7 | | | | SKKS | 32 | 06.00 | | | Mrf=-1.76 0.15 Mtf= 0.14 0.18 | | | | | |
| PJG | 153.31 | 254 | ePKP | 20 | 43.70 | -1.5 | | | | SS | 46 | 44.00 | | | Principal Axes: | | | | | |
| KGM | 154.36 | 143 | ePKP | 20 | 56.00 | 9.3X | BAG | 173.06 | 196 | ePKP | 21 | 03.90 | 0.8 | | T Vol= 1.94 Plg=36 Azm= 93 | | | | | |
| LSA | 154.65 | 69 | PKP | 20 | 48.40 | 1.1 | GZH | 175.22 | 89 | PKP | 21 | 02.00 | -1.4 | | N -0.17 5 0 | | | | | |
| | | | pPKP | 23 | 03.00 | | | | | PP | 26 | 39.00 | | | P -1.77 53 263 | | | | | |
| IPM | 154.99 | 135 | ePKPc | 20 | 48.10 | 0.5 | | | | SKKS | 32 | 27.00 | | | Best Double Couple:Mo=1.9*10**18 | | | | | |
| | 1.0s | | 45.70nm | | | | ANP | 176.58 | 308 | ePKP | 21 | 07.00 | 3.2X | | NP1:Strike=208 Dip=10 Slip= -62 | | | | | |
| SHL | 155.61 | 79 | iPKP | 20 | 48.40 | 0.1 | OZH | 178.18 | 358 | PKPd | 21 | 05.00 | 1.2 | | NP2: 359 81 -95 | | | | | |
| | | | eS | 30 | 46.00 | | | | | e | 22 | 58.00 | | | | | | | | |
| SNG | 156.59 | 130 | ePKP | 20 | 31.50 | -18.1X | | | | pPKP | 23 | 14.00 | | AAI | 3.99 | 11 | ePd | 49 | 59.50 | 0.4 |
| | | | e | 22 | 39.50 | | | | | PP | 26 | 49.00 | | KUG | 4.53 | 236 | iPd | 49 | 34.00 | -32.0X |
| MDJ | 156.71 | 340 | ePKP | 20 | 50.00 | 1.1 | | | | SKKS | 32 | 44.00 | | | | | eS | 50 | 24.50 | |
| | | | e | 21 | 24.00 | | | | | S.D. = 1.1 on 319 of 363 obs. | | | | | | | | | | |
| | | | pPKP | 23 | 00.00 | | | | | & FEB 28, 1989 13h 29m 05.70s | | | | | | | | | | |
| | | | PP | 25 | 00.00 | | | | | 36.793 N 121.290 W | | | | | | | | | | |
| | | | SS | 44 | 00.00 | | | | | DEPTH = 8.0km | | | | | | | | | | |
| GTA | 157.27 | 40 | iPKPd | 20 | 50.00 | 0.1 | | | | | | | | | | | | | | |

28d 13h

| | | | | | | | | | | | | | | | | | | | | |
|------|-------|-----|---------|----|-------|--------|------------------------------------|--------|---------|-------|----|-------|--------------------------------------|------------------------------------|-------|-----|---------|-------|-------|-------|
| | | | eS | 54 | 29.00 | | QUE | 69.06 | 306 | iPc | 59 | 43.60 | -0.4 | BTO | 22.27 | 315 | eP | 36 | 00.00 | 3.2X |
| WRA | 13.97 | 152 | Pc | 52 | 02.20 | -5.8X | MAIO | 77.08 | 310 | iPc | 00 | 31.00 | 0.6 | N | 14s | | 0.50um | | | |
| | 0.3s | | 8.00nm | | | 4.6mb | | 1.0s | 16.00nm | | | 4.7mb | | E | 14s | | 0.60um | | | |
| TRT | 14.63 | 269 | ePc | 52 | 16.60 | 0.5 | SPA | 82.43 | 180 | e(P) | 00 | 58.90 | 0.6 | CD2 | 23.94 | 288 | eP | 36 | 15.00 | 1.9 |
| | 0.7s | | 75.10nm | | | 5.2mb | | 0.9s | 17.27nm | | | 4.8mb | | KMI | 25.04 | 274 | eP | 36 | 25.00 | 1.0 |
| MBL | 15.31 | 208 | eP | 52 | 21.00 | -3.5X | YKA | 109.44 | 26 | PKP | 07 | 05.40 | 0.3 | GTA | 28.83 | 305 | Pd | 36 | 57.40 | -1.0 |
| | | | eS | 55 | 07.00 | | CDF | 115.45 | 320 | ePKP | 07 | 16.60 | -0.6 | CHG | 30.02 | 262 | eP | 37 | 09.80 | 0.6 |
| QIS | 17.46 | 139 | eP | 52 | 48.00 | -2.0 | BSF | 115.94 | 320 | ePKP | 07 | 17.80 | -0.4 | SHL | 34.68 | 278 | iP | 37 | 50.10 | 0.1 |
| | | | e | 55 | 50.00 | | | 0.6s | 11.50nm | | | | | | | | eS | 40 | 22.90 | |
| KKM | 17.57 | 320 | ePd | 52 | 54.00 | 2.7 | HAU | 116.17 | 320 | ePKP | 07 | 18.50 | 0.0 | WMO | 38.75 | 308 | eP | 38 | 24.70 | 0.7 |
| WARB | 18.47 | 182 | iPd | 52 | 49.60 | -11.1X | LPG | 116.69 | 317 | ePKP | 07 | 20.00 | 0.1 | PKI | 40.09 | 282 | P | 38 | 35.80 | 0.2 |
| | | | eS | 56 | 10.00 | | | 0.6s | 4.50nm | | | | | | 0.4s | | 8.00nm | | | 4.8mb |
| NANU | 18.74 | 216 | iPc | 53 | 03.40 | 0.0 | LOR | 118.00 | 320 | ePKP | 07 | 22.10 | 0.1 | KKN | 40.17 | 283 | P | 38 | 36.60 | 0.5 |
| | 0.5s | | 40.00nm | | | 5.2mb | | 0.6s | 3.90nm | | | | | | 0.8s | | 16.00nm | | | 4.8mb |
| | | | eS | 56 | 33.00 | | LBF | 118.03 | 320 | ePKP | 07 | 22.10 | 0.0 | DMN | 40.35 | 283 | P | 38 | 38.60 | 1.0 |
| PMG | 19.62 | 97 | eP | 53 | 13.00 | 0.5 | | 0.6s | 7.50nm | | | | | GKN | 40.70 | 283 | P | 38 | 40.60 | 0.2 |
| MEKA | 20.68 | 203 | iPd | 53 | 23.80 | 0.7 | SMF | 118.23 | 319 | ePKP | 07 | 22.30 | -0.1 | | 0.4s | | 7.00nm | | | 4.8mb |
| | | | eS | 57 | 15.00 | | | 0.6s | 3.60nm | | | | | WB5 | 45.95 | 175 | eP | 39 | 21.10 | -1.6 |
| CTA | 22.07 | 126 | iP | 53 | 30.00 | -6.8X | SSF | 118.30 | 320 | ePKP | 07 | 22.80 | 0.3 | WRA | 46.01 | 175 | Pd | 39 | 21.60 | -1.5 |
| | 1.0s | | 15.00nm | | | 4.5mb | | 0.5s | 9.70nm | | | | | | 0.7s | | 2.40nm | | | 4.2mb |
| | | | ePP | 54 | 10.00 | | AVF | 118.50 | 320 | iPKPc | 07 | 22.60 | -0.3 | GBA | 51.14 | 267 | Pc | 40 | 02.30 | -0.8 |
| | | | i | 56 | 45.00 | | | 0.6s | 6.60nm | | | | | | 1.0s | | 8.40nm | | | 4.7mb |
| | | | eS | 57 | 14.00 | | BGF | 118.90 | 320 | iPKPc | 07 | 24.10 | 0.4 | MAIO | 60.34 | 298 | eP | 41 | 10.00 | 0.8 |
| FORR | 23.12 | 178 | eP | 53 | 46.00 | -0.7 | | 0.6s | 18.00nm | | | | | FBA | 63.10 | 28 | eP | 41 | 27.50 | 0.3 |
| | 0.4s | | 19.00nm | | | 5.1mb | MAF | 119.21 | 319 | ePKP | 07 | 24.50 | 0.2 | | 1.0s | | 5.00nm | | | 4.6mb |
| | | | e | 53 | 55.00 | | | 0.6s | 3.60nm | | | | | MBC | 69.38 | 14 | eP | 42 | 06.00 | -1.0 |
| | | | eS | 58 | 08.00 | | TCF | 119.41 | 319 | ePKP | 07 | 24.90 | 0.2 | | 0.9s | | 16.00nm | | | 5.1mb |
| COOL | 23.87 | 193 | eP | 53 | 53.80 | -0.2 | | 0.7s | 7.70nm | | | | | ALE | 71.33 | 2 | eP | 42 | 19.00 | 0.2 |
| | | | eS | 58 | 22.00 | | CAF | 120.00 | 318 | ePKP | 07 | 26.60 | 0.7 | SUF | 73.33 | 332 | iP | 42 | 31.50 | 0.7 |
| MRWA | 24.02 | 205 | eP | 53 | 55.40 | 0.1 | | 0.5s | 2.90nm | | | | | YKA | 77.69 | 26 | P | 42 | 56.10 | 0.5 |
| | | | eS | 58 | 27.00 | | LPO | 120.67 | 318 | ePKP | 07 | 27.90 | 0.8 | HFS | 79.80 | 333 | eP | 43 | 06.20 | -0.9 |
| BAL | 24.96 | 202 | eP | 54 | 05.30 | 1.2 | | 0.6s | 7.90nm | | | | | | 0.8s | | 10.00nm | | | 4.9mb |
| | | | e | 54 | 32.50 | | LPF | 120.75 | 322 | ePKP | 07 | 27.30 | 0.2 | NB2 | 80.24 | 334 | P | 43 | 08.60 | -1.0 |
| | | | eS | 58 | 48.00 | | | 0.5s | 8.70nm | | | | | | 0.9s | | 8.00nm | | | 4.7mb |
| KLB | 25.49 | 199 | eP | 54 | 09.00 | 0.1 | MFF | 120.79 | 320 | ePKP | 07 | 27.50 | 0.2 | KSP | 83.93 | 324 | eP | 43 | 30.00 | 1.1 |
| | | | e | 54 | 31.80 | | LFF | 120.87 | 318 | ePKP | 07 | 28.30 | 0.9 | KVN | 88.84 | 46 | eP | 43 | 54.50 | 1.1 |
| | | | eS | 59 | 01.00 | | | 0.7s | 11.00nm | | | | | | 0.9s | | 0.80nm | | | 4.0mb |
| MUN | 26.38 | 202 | iPc | 54 | 17.10 | 0.1 | EPF | 121.85 | 316 | iPKPc | 07 | 30.50 | 1.1 | FRB | 89.11 | 8 | eP | 43 | 54.00 | 0.0 |
| | | | e | 54 | 49.00 | | | 0.5s | 2.40nm | | | | | TNP | 89.95 | 47 | eP | 44 | 00.00 | 1.3 |
| | | | eS | 59 | 23.00 | | FRB | 122.82 | 8 | ePKP | 07 | 30.00 | -0.5 | BW06 | 91.89 | 40 | eP | 44 | 08.50 | 0.9 |
| NWAO | 26.89 | 199 | iPc | 54 | 21.20 | -0.4 | GOL | 123.13 | 47 | ePKP | 07 | 32.50 | 0.2 | | 1.0s | | 2.75nm | | | 4.6mb |
| | 0.5s | | 13.00nm | | | 4.9mb | | 0.9s | 5.46nm | | | | | S.D. = 1.1 on 33 of 37 obs. | | | | | | |
| | | | e | 54 | 58.00 | | ALQ | 123.74 | 53 | ePKP | 07 | 34.00 | 0.4 | ----- | | | | | | |
| | | | eS | 59 | 37.00 | | KIC | 132.50 | 272 | PKPd | 07 | 50.00 | -0.7 | % FEB 28, 1989 17h 15m 12.97±0.58s | | | | | | |
| STK | 27.52 | 153 | iPd | 54 | 26.80 | -0.5 | LIC | 132.77 | 271 | PKPd | 07 | 51.20 | 0.0 | 37.724 N ± 6.0km 15.006 E ± 4.3km | | | | | | |
| | | | e | 57 | 40.00 | | TIC | 132.79 | 272 | PKP | 07 | 52.00 | 0.8 | DEPTH = 10.0km (geophysicist) | | | | | | |
| | | | e | 59 | 50.00 | | BMA | 148.75 | 195 | ePKP | 08 | 24.30 | 5.0X | SICILY | | | | | (398) | |
| IPM | 28.97 | 294 | ePc | 54 | 39.90 | -0.6 | VAO | 149.07 | 190 | ePKP | 08 | 25.50 | 5.7X | MNO | 0.32 | 310 | P | 15 | 19.40 | -0.3 |
| | 0.6s | | 39.80nm | | | 5.3mb | CNCB | 151.35 | 148 | iPKPc | 08 | 32.50 | 8.5X | ATN | 0.57 | 40 | P | 15 | 24.60 | 0.1 |
| ADE | 29.13 | 161 | e(P) | 54 | 42.00 | 0.3 | LPB | 151.52 | 147 | PKP | 08 | 33.00 | 9.0X | MEU | 0.62 | 186 | P | 15 | 24.90 | -0.7 |
| CMS | 29.32 | 147 | eP | 54 | 42.00 | -1.3 | ZOBO | 151.72 | 147 | iPKP | 08 | 32.70 | 8.2X | | | | eSg | 15 | 34.40 | |
| | | | e | 00 | 28.00 | | | | | LR | 31 | 40.00 | | MSI | 0.65 | 42 | P | 15 | 26.30 | 0.4 |
| SNG | 30.49 | 298 | eP | 54 | 54.20 | 0.4 | CCH | 151.78 | 152 | (PKP) | 08 | 25.70 | 1.4 | | | | eSg | 15 | 36.70 | |
| | 0.9s | | 75.63nm | | | 5.4mb | S.D. = 0.9 on 74 of 87 obs. | | | | | | GIB | 0.82 | 289 | P | 15 | 29.30 | 0.4 | |
| BWA | 32.96 | 147 | iPc | 55 | 16.30 | 1.1 | ----- | | | | | | | | | eSg | 15 | 42.50 | | |
| CAN | 33.95 | 147 | eP | 55 | 23.30 | -0.3 | ? FEB 28, 1989 14h 44m 30.92±0.99s | | | | | | | SOI | 0.90 | 67 | P | 15 | 30.70 | 0.5 |
| TOO | 34.03 | 154 | eP | 55 | 25.00 | 0.7 | 38.974 N ± 8.3km 27.346 E ± 11.1km | | | | | | | MCT | 1.09 | 266 | P | 15 | 34.20 | 0.6 |
| NNT | 34.05 | 306 | iPc | 55 | 24.50 | -0.1 | DEPTH = 10.0km (geophysicist) | | | | | | | USI | 1.74 | 305 | P | 15 | 42.70 | -0.7 |
| BDT | 37.39 | 312 | iPc | 55 | 52.20 | -0.6 | TURKEY | | | | | | | CVT | 1.76 | 269 | P | 15 | 44.30 | 0.7 |
| | 0.8s | | 77.30nm | | | 5.4mb | | | | | | | | ERC | 1.94 | 280 | P | 15 | 46.30 | 0.0 |
| CHG | 38.44 | 313 | iPc | 56 | 02.10 | 0.6 | IZM | 0.58 | 186 | ePg | 44 | 42.60 | -0.1 | MGR | 2.45 | 10 | Pc | 15 | 52.60 | -1.0 |
| | 1.0s | | 27.50nm | | | 4.8mb | EZN | 1.16 | 317 | ePn | 44 | 53.00 | 0.4 | S.D. = 0.7 on 11 of 11 obs. | | | | | | |
| SSE | 38.96 | 352 | eP | 56 | 04.50 | -1.0 | DST | 1.18 | 57 | ePn | 44 | 53.50 | 0.6 | ----- | | | | | | |
| GYA | 39.41 | 330 | P | 56 | 10.20 | 0.7 | EDC | 1.43 | 16 | ePn | 44 | 56.00 | -0.9 | * FEB 28, 1989 17h 25m 53.45±2.37s | | | | | | |
| | | | PcP | 58 | 14.60 | | S.D. = 1.1 on 4 of 4 obs. | | | | | | 34.271 N ± 10.3km 139.232 E ± 10.9km | | | | | | | |
| WHN | 39.96 | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|-------------------------------------|--------|-----|--------|----|-------|---------|
| WHN | 21.32 | 267 | eP | 30 | 31.50 | 0.9 |
| Z | 16s | | 1.80um | | | 4.6mszX |
| N | 12s | | 0.73um | | | |
| E | 12s | | 1.27um | | | |
| TUY | 21.93 | 287 | eP | 30 | 38.60 | 1.9 |
| N | 13s | | 1.70um | | | |
| XAN | 25.04 | 278 | P | 31 | 06.60 | 0.0 |
| N | 18s | | 4.10um | | | |
| CD2 | 29.98 | 274 | eP | 31 | 50.00 | -1.2 |
| Z | 16s | | 1.80um | | | 4.8mszX |
| N | 15s | | 3.30um | | | |
| CHG | 38.92 | 257 | eP | 33 | 28.00 | 20.4X |
| CHTO | 38.92 | 257 | eP | 33 | 08.00 | 0.5 |
| | 1.1s | | 2.94nm | | | 4.0mb |
| WMO | 40.57 | 299 | eP | 33 | 24.50 | 3.5X |
| PKI | 46.21 | 277 | P | 34 | 06.40 | -0.5 |
| KKN | 46.23 | 277 | P | 34 | 06.80 | -0.2 |
| | 0.7s | | 7.00nm | | | 4.5mb |
| DMN | 46.45 | 277 | P | 34 | 08.20 | -0.5 |
| GKN | 46.68 | 278 | P | 34 | 10.00 | -0.4 |
| | 0.8s | | 9.00nm | | | 4.5mb |
| WB5 | 54.05 | 186 | eP | 35 | 04.90 | -1.0 |
| WRA | 54.11 | 186 | Pd | 35 | 05.50 | -0.9 |
| | 0.5s | | 1.20nm | | | 4.0mb |
| GBA | 59.23 | 266 | P | 35 | 43.00 | 0.2 |
| | 1.1s | | 4.80nm | | | 4.4mb |
| YKA | 67.08 | 29 | P | 36 | 33.20 | -0.6 |
| KJF | 68.22 | 334 | eP | 36 | 40.00 | -0.8 |
| DAG | 68.37 | 355 | iPd | 36 | 40.00 | -1.6 |
| | 0.7s | | 3.42nm | | | 4.3mb |
| BWA | 68.88 | 172 | eP | 36 | 47.10 | 1.9 |
| SUF | 69.64 | 333 | eP | 36 | 50.00 | 0.5 |
| SLL | 75.74 | 336 | eP | 37 | 25.60 | 0.3 |
| | 0.4s | | 0.70nm | | | 3.8mb |
| NB2 | 76.03 | 337 | P | 37 | 26.50 | -0.5 |
| | 0.7s | | 2.20nm | | | 4.0mb |
| KVN | 77.86 | 51 | eP | 37 | 39.00 | 1.3 |
| FRB | 79.85 | 12 | eP | 37 | 48.00 | 0.3 |
| BW06 | 80.87 | 44 | eP | 37 | 54.00 | 0.1 |
| | 1.0s | | 1.75nm | | | 3.8mb |
| KHC | 83.94 | 328 | P | 38 | 05.20 | -4.1X |
| ZOBO | 149.60 | 61 | ePKP | 45 | 28.00 | 3.4X |
| CNCB | 150.05 | 61 | PKP | 45 | 31.00 | 5.7X |
| S.D. = 1.0 on 26 of 32 obs. | | | | | | |
| FEB 28, 1989 17h 31m 50.84±0.65s | | | | | | |
| 33.643 N ± 6.7km 87.092 W ± 5.8km | | | | | | |
| DEPTH = 0.0km (geophysicist) | | | | | | |
| ALABAMA (507) | | | | | | |
| mbLg 3.5 (NEIS). Mine Collapse. | | | | | | |
| TSAL 0.39 177 P 31 58.80 0.3 | | | | | | |
| S 32 02.90 | | | | | | |
| BKA 0.73 270 P 32 05.50 0.1 | | | | | | |
| PWLA 1.56 329 eP 32 19.60 -0.3 | | | | | | |
| CDG 2.23 64 P 32 31.10 1.5 | | | | | | |
| S 33 01.90 | | | | | | |
| RSCP 2.31 32 eP 32 31.50 0.6 | | | | | | |
| GBTN 3.12 49 eP 32 42.00 -0.2 | | | | | | |
| TKL 3.39 53 eP 32 46.00 -0.2 | | | | | | |
| PRM 3.96 82 eP 32 52.60 -1.6 | | | | | | |
| ELC 4.03 335 eP 33 01.50 6.3X | | | | | | |
| JSC 4.89 81 eP 33 05.50 -1.9X | | | | | | |
| FVM 5.11 329 eP 33 10.30 -0.2 | | | | | | |
| LHS 5.28 79 eP 33 10.80 -2.2X | | | | | | |
| CVL 8.24 56 eP 33 52.80 -1.7X | | | | | | |
| S.D. = 1.0 on 9 of 13 obs. | | | | | | |
| FEB 28, 1989 18h 33m 47.70±0.83s | | | | | | |
| 2.533 S ± 6.4km 140.859 E ± 8.8km | | | | | | |
| DEPTH = 54.8 ± 7.5 km | | | | | | |
| 4.9mb (8 obs.) | | | | | | |
| NEAR N. COAST OF WEST IRIAN (197) | | | | | | |
| JAY 0.16 277 iPc 33 57.00 0.6 | | | | | | |
| iS 34 05.00 | | | | | | |
| MNDI 4.55 142 eP 34 57.00 1.1 | | | | | | |
| PMG 9.26 138 e(P) 36 05.00 3.6X | | | | | | |
| MTN 14.06 223 eP 37 05.00 -0.7 | | | | | | |
| e 39 36.00 | | | | | | |
| GUMO 16.50 14 eP 37 31.00 -6.1X | | | | | | |
| OIS 17.96 184 eP 37 54.00 -1.2 | | | | | | |
| e 37 59.00 | | | | | | |
| e 41 26.00 | | | | | | |
| CTA 18.23 164 e(P) 37 59.00 0.5 | | | | | | |
| eS 41 26.00 | | | | | | |
| e 43 19.00 | | | | | | |
| WB5 18.37 200 eP 37 59.40 -0.9 | | | | | | |
| eS 41 19.00 | | | | | | |
| WRA 18.44 200 Pd 38 00.70 -0.4 | | | | | | |
| 0.6s 5.60nm 3.9mb | | | | | | |
| VSG 19.90 110 eP 38 15.00 -2.6 | | | | | | |
| HNR 20.17 111 eP 38 16.00 -4.4X | | | | | | |
| RMO 25.00 163 eP 39 16.00 8.0X | | | | | | |
| WARB 27.19 209 eP 39 19.20 -9.1X | | | | | | |
| 0.5s 7.00nm 4.5mb | | | | | | |
| BRS 27.22 156 Pc 39 29.20 0.6 | | | | | | |
| i 39 32.20 | | | | | | |
| i 39 44.00 | | | | | | |
| FORR 30.64 202 eP 39 59.00 -0.1 | | | | | | |
| BWA 32.50 168 iPc 40 16.30 0.9 | | | | | | |
| CAN 33.49 168 eP 40 24.10 0.1 | | | | | | |
| SNG 41.30 284 eP 41 30.90 1.1 | | | | | | |
| NST 44.15 296 eP 41 58.00 5.0X | | | | | | |
| CHG 46.36 299 eP 42 11.20 0.6 | | | | | | |
| CHTO 46.36 299 eP 42 11.00 0.4 | | | | | | |
| 1.1s 5.30nm 4.4mb | | | | | | |
| XAN 47.19 323 Pd 42 16.10 -0.9 | | | | | | |
| BJI 48.03 334 eP 42 22.00 -1.4 | | | | | | |
| CN2 48.16 345 P 42 23.00 -1.3 | | | | | | |
| CD2 48.52 316 eP 42 28.30 0.9 | | | | | | |
| BTO 51.34 330 eP 42 48.60 -0.3 | | | | | | |
| LZH 51.65 322 eP 42 52.00 0.6 | | | | | | |
| 1.5s 44.00nm 5.3mb | | | | | | |
| KKN 61.32 304 P 44 00.90 0.3 | | | | | | |
| 1.1s 36.00nm 5.4mb | | | | | | |
| DMN 61.40 303 P 44 01.20 0.0 | | | | | | |
| 0.9s 23.00nm 5.3mb | | | | | | |
| GKN 61.92 304 P 44 04.80 0.2 | | | | | | |
| 1.1s 43.00nm 5.5mb | | | | | | |
| HYB 64.52 291 eP 44 20.50 -1.1 | | | | | | |
| GBA 64.89 286 Pc 44 23.00 -1.0 | | | | | | |
| 0.8s 3.60nm 4.4mb | | | | | | |
| WMO 66.22 321 P 44 32.60 0.4 | | | | | | |
| YKA 98.93 27 P 47 19.20 -3.9X | | | | | | |
| NB2 110.40 336 PKP 52 03.70 -11.5X | | | | | | |
| 0.6s 5.10nm | | | | | | |
| KIC 145.50 278 PKP 53 23.00 0.6 | | | | | | |
| CNCB 145.65 125 PKP 53 25.00 1.7 | | | | | | |
| LPB 145.69 125 (PKP) 53 19.00 -4.2X | | | | | | |
| ZOBO 145.81 124 PKP 53 24.90 1.3 | | | | | | |
| S.D. = 1.0 on 30 of 39 obs. | | | | | | |
| % FEB 28, 1989 19h 38m 19.44±2.69s | | | | | | |
| 39.659 N ± 9.5km 26.252 E ±27.3km | | | | | | |
| DEPTH = 10.0km (geophysicist) | | | | | | |
| TURKEY (366) | | | | | | |
| EZN 0.18 19 iPg 38 23.90 0.5 | | | | | | |
| EDC 1.42 60 iPn 38 45.00 -0.2 | | | | | | |
| BNT 1.46 61 iPn 38 44.20 -1.6 | | | | | | |
| IZM 1.49 148 ePn 38 46.00 -0.2 | | | | | | |
| DST 1.84 91 ePn 38 52.50 1.2 | | | | | | |
| DMK 2.44 27 ePn 39 00.00 0.0 | | | | | | |
| HRT 2.86 65 ePg 39 47.30 41.3X | | | | | | |
| S.D. = 1.2 on 6 of 7 obs. | | | | | | |
| FEB 28, 1989 20h 27m 04.66±0.52s | | | | | | |
| 40.449 N ± 4.9km 29.211 E ± 4.8km | | | | | | |
| DEPTH = 10.0km (geophysicist) | | | | | | |
| TURKEY (366) | | | | | | |
| YLV 0.17 46 iPg 27 08.20 -0.4 | | | | | | |
| GBZT 0.38 28 ePg 27 13.00 0.5 | | | | | | |
| iSg 27 19.50 | | | | | | |
| HRT 0.51 43 ePg 27 14.80 -0.2 | | | | | | |
| ISK 0.63 349 ePg 27 17.60 0.4 | | | | | | |
| eSg 27 26.80 | | | | | | |
| KCT 0.68 253 iPg 27 17.20 -1.0 | | | | | | |
| iSg 27 28.20 | | | | | | |
| GPA 0.85 100 iPg 27 20.00 -1.1 | | | | | | |
| CTT 0.92 320 ePg 27 22.40 0.2 | | | | | | |
| eSg 27 36.10 | | | | | | |
| DST 0.95 208 iPn 27 22.50 -0.4 | | | | | | |
| EDC 1.03 265 iPn 27 24.00 -0.2 | | | | | | |
| DMK 1.76 322 ePn 27 35.80 0.5 | | | | | | |
| KHL 2.14 173 ePn 27 43.00 2.1 | | | | | | |
| EZN 2.30 255 ePn 27 42.90 -0.3 | | | | | | |
| IZM 2.54 217 ePn 27 50.00 3.3X | | | | | | |
| BBTK 2.79 101 iPc 27 56.20 5.9X | | | | | | |
| iS 28 37.00 | | | | | | |
| S.D. = 0.9 on 12 of 14 obs. | | | | | | |
| & FEB 28, 1989 21h 00m 09.14s | | | | | | |
| 59.818 N 153.250 W | | | | | | |
| DEPTH = 119.8km | | | | | | |
| SOUTHERN ALASKA (2) | | | | | | |
| <AGS-P>. | | | | | | |
| ILIM 0.30 29 Pn 00 25.72 0.9 | | | | | | |
| iS 00 39.71 | | | | | | |
| AUH 0.47 192 iP 00 26.65 -0.6 | | | | | | |
| PDB 0.48 267 iP 00 26.33 -0.8 | | | | | | |
| iS 00 39.99 | | | | | | |
| RED 0.65 21 eP 00 27.76 -0.7 | | | | | | |
| eS 00 42.89 | | | | | | |
| HOM 0.83 100 eP 00 29.41 -0.4 | | | | | | |
| RDT 0.87 29 iP 00 29.55 -0.7 | | | | | | |
| CDD 0.91 193 iP 00 29.59 -1.1 | | | | | | |
| eS 00 46.72 | | | | | | |
| NNL 1.01 76 iP 00 31.93 0.4 | | | | | | |
| iS 00 48.73 | | | | | | |
| CNPM 1.06 105 iP 00 31.27 -0.8 | | | | | | |
| iS 00 48.32 | | | | | | |
| BRLK 1.20 92 iP 00 32.55 -1.0 | | | | | | |
| eS 00 51.09 | | | | | | |
| NKA 1.37 46 eP 00 36.23 0.9 | | | | | | |
| eS 00 55.35 | | | | | | |
| SPU 1.49 23 iP 00 35.90 -1.0 | | | | | | |
| CRP 1.55 20 iP 00 37.04 -0.7 | | | | | | |
| eS 00 59.03 | | | | | | |
| SLKM 1.67 64 P 00 38.19 -0.7 | | | | | | |
| SVW 1.75 319 iP 00 38.21 -1.8 | | | | | | |
| SEW 1.93 80 eP 00 40.87 -1.3 | | | | | | |
| KDC 2.11 169 eP 00 41.21 -3.2 | | | | | | |
| PMS 2.32 50 iP 00 45.72 -1.4 | | | | | | |
| PTE 2.35 62 eP 00 45.79 -1.7 | | | | | | |
| PWL 2.66 65 eP 00 50.60 -1.0 | | | | | | |
| PLRM 2.70 47 eP 00 49.48 -2.5 | | | | | | |
| KNIM 2.81 77 eP 00 51.14 -2.5 | | | | | | |
| MTU 2.83 84 eP 00 52.43 -1.4 | | | | | | |
| KNK 2.85 54 eP 00 51.56 -2.6 | | | | | | |
| GHO 2.89 45 eP 00 52.04 -2.6 | | | | | | |
| SML 3.13 48 eP 00 55.02 -2.8 | | | | | | |
| GLI 3.24 68 eP 00 57.20 -2.1 | | | | | | |
| TTA 3.39 338 eP 00 59.00 -2.4 | | | | | | |
| FID 3.50 72 eP 01 00.50 -2.3 | | | | | | |
| eS 01 37.98 | | | | | | |
| VZW 3.54 67 iP 01 02.38 -1.1 | | | | | | |
| VLZ 3.67 66 eP 01 03.90 -1.1 | | | | | | |
| KLU 3.98 62 eP 01 06.52 -2.8 | | | | | | |
| TOA 4.14 53 eP 01 09.46 -2.1 | | | | | | |
| 33 obs. associated | | | | | | |
| * FEB 28, 1989 21h 02m 58.06±1.37s | | | | | | |
| 24.076 N ±20.1km 123.694 E ±12.7km | | | | | | |
| DEPTH = 33.0km (normol) | | | | | | |
| 4.3mb (2 obs.) | | | | | | |
| SOUTHWESTERN RYUKYU ISLANDS (246) | | | | | | |
| TWC 1.77 288 ePc 03 27.60 0.8 | | | | | | |
| eS 03 49.70 | | | | | | |
| TWD 1.92 271 ePc 03 29.80 0.8 | | | | | | |
| ANP 2.27 300 eP 03 38.80 4.8X | | | | | | |
| SSE 7.34 343 e(P) 04 45.50 -0.1 | | | | | | |
| KKN 34.65 284 P 09 46.30 -0.6 | | | | | | |
| DMN 34.81 284 P 09 47.80 -0.5 | | | | | | |
| GKN 35.21 285 P 09 50.80 -0.8 | | | | | | |
| MBC 72.86 13 eP 14 25.00 -0.1 | | | | | | |
| HFS 78.77 331 eP 14 57.80 -0.9 | | | | | | |
| 0.4s 1.20nm 4.3mb | | | | | | |
| NB2 79.38 333 P 15 01.60 -0.5 | | | | | | |
| 0.6s 2.40nm 4.4mb | | | | | | |
| YKA 82.17 24 P 15 18.40 1.7 | | | | | | |
| S.D. = 1.0 on 10 of 11 obs. | | | | | | |
| ? FEB 28, 1989 21h 34m 58.46±1.10s | | | | | | |
| 37.784 N ± 9.1km 29.172 E ± 9.8km | | | | | | |
| DEPTH = 10.0km (geophysicist) | | | | | | |
| TURKEY (366) | | | | | | |
| KHL 0.61 27 iPg 35 10.50 -0.2 | | | | | | |
| iSg 35 21.50 | | | | | | |
| YER 0.96 228 iPn 35 17.00 0.2 | | | | | | |
| BCK 1.17 106 ePn 35 21.00 0.6 | | | | | | |
| ELL 1.19 150 ePn 35 20.10 -0.6 | | | | | | |
| IZM 1.63 293 ePn 35 32.00 4.7X | | | | | | |
| S.D. = 0.9 on 4 of 5 obs. | | | | | | |
| * FEB 28, 1989 21h 45m 27.86±2.70s | | | | | | |

28d 21h

1.967 N ± 15.4 km 126.549 E ± 19.1 km
 DEPTH = 79.1 ± 25.5 km
 5.0mb (5 obs.)
 MOLUCCA PASSAGE (266)

| | | | | | | |
|------|-------|-----|------|---------|-------|------|
| MNI | 1.79 | 253 | ePd | 45 | 57.70 | 0.3 |
| | | | eS | 46 | 24.60 | |
| TSM | 8.76 | 285 | eP | 47 | 35.70 | 1.8 |
| MTN | 15.40 | 163 | eP | 49 | 00.00 | -2.1 |
| WB5 | 23.03 | 161 | eP | 50 | 26.80 | -0.2 |
| OIS | 25.78 | 151 | eP | 50 | 53.00 | -0.2 |
| CHG | 31.81 | 304 | eP | 51 | 47.00 | -0.3 |
| FORR | 32.67 | 178 | eP | 51 | 54.00 | -0.5 |
| XAN | 35.91 | 335 | Pd | 52 | 20.10 | -2.3 |
| BJI | 39.05 | 347 | eP | 52 | 47.50 | -1.1 |
| BWA | 41.62 | 152 | eP | 53 | 13.40 | 3.5X |
| CAN | 42.63 | 153 | eP | 53 | 20.50 | 2.3 |
| GTA | 44.52 | 330 | eP | 53 | 32.00 | -1.5 |
| PKI | 46.85 | 307 | P | 53 | 54.40 | 2.0 |
| KKN | 47.05 | 307 | P | 53 | 52.50 | -1.4 |
| | | | 0.8s | 13.00nm | 4.9mb | |
| DMN | 47.11 | 307 | P | 53 | 54.80 | 0.4 |
| | | | 0.9s | 23.00nm | 5.1mb | |
| GKN | 47.66 | 307 | P | 53 | 57.20 | -1.3 |
| | | | 0.9s | 16.00nm | 4.9mb | |
| HYB | 49.56 | 291 | eP | 54 | 13.00 | -0.2 |
| GBA | 49.91 | 286 | Pd | 54 | 14.30 | -1.5 |
| | | | 0.7s | 1.60nm | 4.2mb | |
| WMO | 54.06 | 326 | eP | 54 | 46.00 | -0.6 |
| MAIO | 70.44 | 308 | eP | 56 | 39.00 | 3.0 |
| SVW | 82.41 | 29 | eP | 57 | 45.00 | 2.5 |
| IMA | 84.06 | 24 | ePc | 57 | 52.10 | 1.2 |
| PMR | 85.57 | 29 | ePc | 57 | 58.30 | 0.0 |
| | | | 0.9s | 16.70nm | 5.1mb | |
| MBC | 93.70 | 13 | eP | 58 | 36.00 | -0.4 |

S.D. = 1.6 on 23 of 24 obs.

* FEB 28, 1989 21h 57m 49.70 ± 1.88 s
 11.342 S ± 8.0 km 166.241 E ± 11.2 km
 DEPTH = 51.9 ± 14.7 km
 5.2mb (7 obs.)

SANTA CRUZ ISLANDS (184)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 11S, 23C
 Centroid Location:
 Origin Time 21:57:53.1 0.8
 Lat 11.52S 0.08 Lon 165.74E 0.08
 Dep 69.8 4.6 Half-duration 1.5
 Moment Tensor: Scale 10¹⁶ Nm
 Mrr=6.44 0.45 Mtt=-0.92 1.13
 Mff=-5.53 1.01 Mrt=0.31 0.51
 Mrf=2.37 0.53 Mtf=0.65 0.52
 Principal Axes:
 T Vol=6.92 Plg=78 Azm=286
 N -0.87 4 174
 P -6.05 11 83
 Best Double Couple: Mo=6.5 $\times 10^{16}$
 NP1: Strike=168 Dip=34 Slip= 82
 NP2: 357 56 95

| | | | | | | |
|------|-------|-----|------|----|-------|------|
| HNR | 6.48 | 286 | eP | 59 | 26.00 | 1.2 |
| VSG | 6.75 | 287 | eP | 59 | 26.00 | -2.7 |
| | | | eS | 00 | 42.00 | |
| DZM | 10.67 | 179 | iPc | 00 | 24.00 | 1.2 |
| | | | iS | 02 | 37.90 | |
| PMG | 18.87 | 274 | e(P) | 02 | 17.00 | 8.4X |
| CTA | 21.09 | 243 | eP | 02 | 34.00 | 1.8 |
| | | | i | 02 | 44.50 | |
| RMQ | 22.33 | 225 | eP | 02 | 53.00 | 8.5X |
| | | | e | 03 | 08.00 | |
| CMS | 27.53 | 220 | eP | 03 | 33.00 | -0.5 |
| BWA | 28.15 | 212 | eP | 03 | 37.70 | -1.5 |
| WB5 | 31.80 | 251 | eP | 04 | 10.60 | -1.2 |
| FORR | 40.26 | 235 | eP | 05 | 24.00 | 0.6 |
| MBL | 45.47 | 252 | eP | 06 | 06.50 | 0.7 |
| KLB | 48.96 | 238 | eP | 06 | 32.40 | -0.6 |
| NANU | 49.56 | 250 | eP | 06 | 38.00 | 0.2 |
| NJ2 | 62.57 | 315 | Pd | 08 | 10.80 | 0.0 |
| CN2 | 66.24 | 329 | Pc | 08 | 33.80 | -0.7 |
| BJI | 69.02 | 321 | eP | 08 | 51.00 | -0.9 |
| TIY | 70.11 | 317 | eP | 08 | 59.00 | 0.2 |
| XAN | 70.68 | 312 | iPd | 09 | 02.70 | 0.4 |
| CHG | 72.79 | 294 | eP | 09 | 15.70 | 0.6 |
| CD2 | 73.17 | 307 | eP | 09 | 18.20 | 1.0 |
| BTO | 73.23 | 319 | eP | 09 | 18.40 | 1.0 |
| LZH | 75.32 | 312 | eP | 09 | 31.00 | 1.3 |

| | | | |
|-----|--------|-----------|---------------|
| SPA | 1.5s | 44.00nm | 5.2mb |
| | 78.73 | 180 iPd | 09 47.60 -0.5 |
| | 0.9s | 26.82nm | 5.2mb |
| GTA | 79.61 | 314 iPc | 09 54.20 0.9 |
| PMR | 80.67 | 20 eP | 10 02.50 4.3X |
| FBA | 83.45 | 18 eP | 10 12.00 -0.7 |
| | 0.9s | 15.83nm | 5.0mb |
| KVN | 86.18 | 49 eP | 10 28.00 0.9 |
| PKI | 87.21 | 299 P | 10 33.60 1.1 |
| | 0.6s | 9.00nm | 5.2mb |
| KKN | 87.37 | 299 P | 10 33.60 0.4 |
| DMN | 87.48 | 299 P | 10 34.40 0.7 |
| | 1.0s | 48.00nm | 5.7mb |
| GKN | 87.97 | 299 P | 10 36.00 0.0 |
| | 1.0s | 36.00nm | 5.5mb |
| WMO | 89.65 | 315 iPd | 10 44.00 0.5 |
| HYB | 91.17 | 287 eP | 10 51.00 0.1 |
| GBA | 91.48 | 283 Pc | 10 51.60 -0.7 |
| | 1.2s | 8.30nm | 5.0mb |
| YKA | 95.01 | 27 P | 11 08.60 1.0 |
| SOD | 117.98 | 344 ePKP | 16 33.00 1.3 |
| KJF | 119.82 | 340 ePKP | 16 34.00 -1.3 |
| SUF | 121.34 | 340 iPKP | 16 37.10 -1.1 |
| | 0.7s | 4.00nm | |
| NUR | 123.37 | 338 ePKP | 16 41.00 -1.2 |
| APD | 126.81 | 343 ePKP | 16 47.50 -1.4 |
| | 0.4s | 1.50nm | |
| NB2 | 127.11 | 345 PKP | 16 48.20 -1.3 |
| | 0.8s | 1.90nm | |
| BNG | 147.30 | 260 ePKPd | 17 27.10 -0.6 |
| | 0.6s | 53.00nm | |
| | | ic | 17 30.00 |
| | | id | 17 32.50 |
| | | id | 17 44.00 |

S.D. = 1.1 on 39 of 42 obs.

% FEB 28, 1989 22h 12m 52.53 ± 0.81 s
 37.643 N ± 6.7 km 15.041 E ± 6.9 km
 DEPTH = 10.0 km (geophysicist)

SICILY (398)

| | | | | | | |
|-----|------|-----|-----|----|-------|------|
| MNO | 0.40 | 317 | P | 13 | 00.70 | 0.0 |
| MEU | 0.55 | 189 | P | 13 | 03.50 | -0.1 |
| ATN | 0.62 | 33 | P | 13 | 04.40 | -0.5 |
| | | | eSg | 13 | 13.60 | |
| GIB | 0.87 | 294 | P | 13 | 09.60 | 0.2 |
| | | | eSg | 13 | 22.20 | |
| SOI | 0.91 | 62 | P | 13 | 10.40 | 0.5 |

S.D. = 0.5 on 5 of 5 obs.

FEB 28, 1989 22h 16m 03.73 ± 0.65 s
 43.380 N ± 5.7 km 12.809 E ± 5.4 km
 DEPTH = 10.2 ± 8.3 km

CENTRAL ITALY (381)

| | | | | | | |
|-----|------|-----|-------|----|-------|------|
| ARV | 0.15 | 39 | Pc | 16 | 07.20 | -0.1 |
| | | | eSg | 16 | 10.30 | |
| CIO | 0.31 | 127 | iPg | 16 | 10.49 | 0.3 |
| | | | iSg | 16 | 16.31 | |
| ASS | 0.33 | 199 | P | 16 | 10.60 | 0.0 |
| | | | eSg | 16 | 16.10 | |
| AOI | 0.60 | 73 | iPg | 16 | 15.62 | -0.3 |
| | | | iSg | 16 | 25.72 | |
| RSM | 0.61 | 335 | P | 16 | 16.30 | 0.4 |
| CRE | 0.67 | 292 | P | 16 | 16.30 | -0.8 |
| | | | eSg | 16 | 26.70 | |
| ALP | 0.82 | 137 | e(Pg) | 16 | 19.62 | -0.1 |
| | | | iSg | 16 | 33.58 | |
| SFI | 0.88 | 308 | P | 16 | 21.20 | 0.6 |

S.D. = 0.6 on 8 of 8 obs.

? FEB 28, 1989 22h 39m 48.08 ± 1.09 s
 2.519 S ± 11.8 km 139.588 E ± 24.6 km
 DEPTH = 33.0 km (normol)
 5.0mb (4 obs.)

NEAR N. COAST OF WEST IRIAN (197)

| | | | | | | |
|------|-------|-----|-----|----|-------|-------|
| MTN | 13.24 | 219 | iPc | 42 | 56.80 | 0.4 |
| | | | e | 45 | 21.00 | |
| OIS | 17.93 | 180 | eP | 43 | 57.00 | 0.3 |
| | | | eS | 47 | 13.00 | |
| WB5 | 17.99 | 196 | eP | 43 | 57.20 | -0.3 |
| | | | i | 44 | 00.90 | |
| | | | eS | 47 | 12.50 | |
| WARB | 26.61 | 207 | eP | 45 | 17.40 | -8.1X |
| BWA | 32.79 | 166 | eP | 46 | 24.20 | 3.6X |
| CHG | 45.25 | 300 | eP | 48 | 05.80 | 1.2 |

| | | | | | | |
|------|--------|-----|-------|---------|-------|-------|
| PKI | 60.07 | 304 | P | 49 | 55.30 | 0.2 |
| | | | 0.6s | 4.00nm | 4.7mb | |
| KKN | 60.25 | 304 | P | 49 | 56.80 | 0.6 |
| | | | 0.8s | 17.00nm | 5.2mb | |
| DMN | 60.33 | 304 | P | 49 | 57.60 | 0.8 |
| | | | 0.7s | 15.00nm | 5.2mb | |
| GBA | 63.67 | 286 | Pd | 50 | 17.40 | -1.5 |
| | | | 0.6s | 1.30nm | 4.2mb | |
| KIC | 144.24 | 277 | PKPd | 59 | 21.70 | -1.7 |
| | | | 0.9s | 33.00nm | | |
| TIC | 144.49 | 278 | PKPd | 59 | 22.40 | -1.5 |
| | | | 0.9s | 36.00nm | | |
| LIC | 144.54 | 277 | PKPd | 59 | 22.70 | -1.2 |
| CNCB | 146.69 | 126 | PKP | 59 | 31.00 | 2.9X |
| LPB | 146.74 | 126 | (PKP) | 59 | 39.00 | 11.0X |
| ZOBO | 146.86 | 125 | PKP | 59 | 31.00 | 2.6 |

S.D. = 1.4 on 12 of 16 obs.

FEB 28, 1989 23h 09m 27.97 ± 0.73 s
 43.384 N ± 6.9 km 12.780 E ± 6.7 km
 DEPTH = 10.0 km (geophysicist)

CENTRAL ITALY (381)

| | | | | | | |
|-----|------|-----|-------|----|-------|------|
| ASS | 0.33 | 195 | P | 09 | 35.30 | 0.6 |
| | | | eSg | 09 | 40.90 | |
| CIO | 0.33 | 125 | iPg | 09 | 34.95 | 0.2 |
| | | | iSg | 09 | 40.74 | |
| RSM | 0.59 | 336 | P | 09 | 40.80 | 0.9 |
| AOI | 0.62 | 74 | iPg | 09 | 40.28 | -0.2 |
| | | | iSg | 09 | 50.44 | |
| CRE | 0.65 | 292 | P | 09 | 40.10 | -1.0 |
| ALP | 0.84 | 136 | e(Pg) | 09 | 43.82 | -0.5 |
| | | | i(Sg) | 09 | 57.21 | |

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

* FEB 28, 1989 23h 33m 47.52 ± 0.82 s
 51.412 N ± 16.1 km 175.109 W ± 7.5 km
 DEPTH = 33.0 km (normol)
 4.5mb (5 obs.)
 ANDREANOF ISLANDS, ALEUTIAN IS. (7)
 Felt (11) on Adok.

| | | | | | | |
|------|-------|-----|------|--------|-------|------|
| ADK | 1.09 | 296 | iPd | 34 | 07.70 | 1.2 |
| KDC | 14.52 | 55 | eP | 37 | 12.00 | -0.3 |
| TTA | 15.42 | 34 | eP | 37 | 24.40 | 0.3 |
| IMA | 18.27 | 28 | eP | 38 | 01.20 | 1.4 |
| FBA | 19.53 | 36 | eP | 38 | 13.90 | -0.8 |
| MBC | 32.72 | 21 | eP | 40 | 17.00 | -1.5 |
| LON | 34.57 | 76 | eP | 40 | 35.70 | 0.7 |
| BW06 | 44.08 | 74 | eP | 41 | 55.50 | 1.3 |
| | | | 0.6s | 3.49nm | 4.3mb | |
| GOL | 48.45 | 75 | eP | 42 | 30.00 | 1.2 |
| | | | 0.8s | 5.95nm | 4.7mb | |
| RSON | 48.52 | 57 | eP | 42 | 28.20 | -0.7 |
| | | | 0.6s | 2.38nm | 4.4mb | |
| FVM | 58.42 | 67 | eP | 43 | 40.50 | -1.6 |
| CVL | 65.14 | 60 | eP | 44 | 27.20 | 0.1 |
| KKN | 74.40 | 295 | P | 45 | 23.90 | -0.2 |
| PKI | 74.49 | 295 | P | 45 | 24.60 | -0.2 |
| | | | 0.5s | 3.00nm | 4.5mb | |
| GKN | 74.60 | 296 | P | 45 | 24.7 | |

| | | | | | | |
|-------------------------------------|-------|-----|-------|----|-------|-------|
| ARV | 0.16 | 42 | Pc | 53 | 21.50 | -0.1 |
| CIO | 0.32 | 126 | iPg | 53 | 24.60 | 0.1 |
| | | | iSg | 53 | 30.43 | |
| ASS | 0.33 | 198 | Pc | 53 | 25.00 | 0.2 |
| | | | eSg | 53 | 30.50 | |
| RSM | 0.60 | 335 | P | 53 | 30.80 | 0.8 |
| AOI | 0.61 | 74 | iPg | 53 | 30.00 | -0.3 |
| | | | iSg | 53 | 40.12 | |
| CRE | 0.66 | 292 | P | 53 | 30.50 | -0.7 |
| ALP | 0.83 | 136 | e(Pg) | 53 | 30.28 | -3.8X |
| | | | i(Sg) | 53 | 40.64 | |
| S.D. = 0.6 on 6 of 7 obs. | | | | | | |
| ----- | | | | | | |
| ? FEB 28, 1989 23h 56m 00.69± 2.49s | | | | | | |
| 21.158 N ±60.1km 97.166 E ±61.9km | | | | | | |
| DEPTH = 10.0km (geophysicist) | | | | | | |
| BURMA (296) | | | | | | |
| CHG | 2.87 | 144 | iPn | 56 | 47.70 | 0.3 |
| | | | iPg | 56 | 55.80 | |
| | | | iSg | 57 | 33.50 | |
| CHTO | 2.87 | 144 | ePn | 56 | 47.00 | -0.3 |
| | | | iPg | 56 | 55.00 | |
| | | | iSg | 57 | 30.00 | |
| BDT | 4.26 | 156 | ePn | 57 | 07.10 | 0.0 |
| | | | ePg | 57 | 24.00 | |
| | | | eSg | 58 | 22.00 | |
| GKN | 13.28 | 303 | P | 59 | 12.00 | 0.0 |
| S.D. = 0.5 on 4 of 4 obs. | | | | | | |

STATION DATA REPORT FOR FEBRUARY, 1989

1325 stations reported 56860 reading arrival groups

X = data received for this 6-hour time period

| DATE | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | | 23 | | 24 | | 25 | | 26 | | 27 | | 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|--|----|--|----|--|-----|--|---|---|-------|-----|---|-------|---|--|-------|---|-------|-----|-------|---|----|-------|-----|-------|----|--|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|--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| BLP | X | X | XXX | X | | | X | X | | X | X | | XX | | XX | X | | X | | | XX | | | | | | | |
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| BMA | X | | X | X | XX | X | | X | X | XX | XXXXXX | XXXXXX | X | | | | | XXX | XXXX | X | XX | XX | X | XXXX | XXXX | X | X | XXXX |
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| BOB | XX | | X | XX | XXX | | | X | XXX | X | X | X | XX | X | X | XXX | XX | XX | X | | | X | X | X | X | | | |
| BOG | | | | | | | | | X | X | | XX | X | X | X | X | X | | | | XX | X | X | | X | | X | X |
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| BPI | | X | | XX | XXXX | | X | X | XX | X | XXX | XX | XX | X | | XX | X | X | XX | X | | | | | | | | |
| BRG | XX | XX | | | | | | | XXX | XXXXXXXXXXXXXXXXXX | XX | X | XXXXXX | XXX | XX | XX | X | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | XX | XX | | | | | | | | |
| BRK | X | X | X | X | XXXX | X | X | X | | X | X | XX | X | XXXXX | XXXX | X | X | | | | X | | XX | X | X | X | X | X |
| BR1K | XX | | X | | | | | | X | XX | | | | X | X | | | | | | | X | | | | | | X |
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| BRT | X | X | | XXX | | | X | | X | X | X | | X | | XX | | X | X | | | XX | X | X | X | X | X | X | X |
| BRW | X | | | X | X | | | | X | XX | XXX | XX | X | | | XXX | XX | XXXXX | | | X | X | | XXXX | X | | | |
| BRY | X | X | | | XX | X | X | X | | | | X | XX | X | | | | | X | | | X | | | | | | X |
| BSF | X | X | X | XX | XXX | X | X | X | XX | XX | X | XXX | X | XXXXXXXX | XXX | XXXX | X | XXX | | X | X | X | XXXXX | XXXXX | XX | X | X | X |
| BS1 | X | X | | | X | X | | | X | XX | XXX | X | X | X | | XX | XX | XXXXXX | X | XX | XXX | | | | | X | | |
| BSK | | X | XX | X | X | X | | | X | | | XXXX | X | | | | | | | | | | | | | | | |
| BTO | X | X | | XX | XXXX | | X | X | | X | XXXXXXXX | XX | X | X | XX | XXXX | XXXXXX | XXXX | X | X | X | XXX | X | XX | XX | XXXX | XX | XX |
| BUC | | | | | X | | | | | | | | | | X | | | | | | | | | X | X | X | X | X |
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| BUL | XX | X | | XXXXXX | X | XXXX | X | XXXXXX | XXXX | X | XX | XX | X | | X | X | X | XXXX | XX | X | XX | X | XX | XX | X | X | XX | XX |
| BURJ | | | | XX | | X | | | | | | X | | | X | | X | XX | X | | | X | X | X | X | X | XX | XX |
| BW06 | XX | | X | XX | XXXX | XXXX | X | X | X | XXXX | XXX | XXXXX | X | XXXXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX |
| BWA | X | XX | XXXX | XXX | XXXXX | X | XX | XXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX |
| BZS | X | | XXXXXXXXXXXXXXXXXX | XXXX | XXX | XX | XX | XXX | XX | XXXXXXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX |
| CAF | XX | | X | XX | XXXX | X | X | X | XX | X | XXX | XXXXXXXXXXXX | XXX | X | XXXX | X | X | XXX | X | XXX | X | XXX | X | XX | XX | XX | XXXX | X |
| CALA | | | | | | X | | | | | | | | X | X | | | | | | XX | XX | | | X | X | X | |
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| CAR | | | | | X | | | X | | | | X | X | X | | X | X | | | | X | X | X | X | X | X | X | X |
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| CCH | XX | X | XXXXXX | XXXXXX | X | XXXX | XXXXXXXXXXXXXXXXXXXX | XXXX | XXXXXX | XXXX | XXXX | X | X | XXXX | XXXXXX | X | X | XXXX | XXXXXX | X | XX | X | XXXX | XXXX | X | X | XXXXXX | XXXXXX |
| CD2 | X | X | XX | XXXX | | XXXX | XXXX | XXXX | XXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX |
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| CDF | X | XX | X | XX | XXXX | X | XX | XX | X | XXX | X | XXXXXXXXXX | XXX | XXXX | XX | X | X | X | X | X | X | XXXXXXXXXXXX | XX | X | X | X | X | X |
| CDM | | | | X | XX | X | X | | | | | | | | | | | | | | X | | | | | X | | |
| CER | X | | X | XXXX | XX | XX | X | XXX | X | XX | XXXX | X | X | XXXX | XX | XX | X | XX | X | XX | X | | | | | | | XX |
| CEY | XX | X | XXXX | XXXX | X | X | X | XX | XX | XXXX | XX | XXXX | XX | XXXX | XX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX |
| CFA | | | XXXX | XXXX | X | XX | | XXXX | X | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX |
| CFR | XX | | X | XXX | X | X | XX | XX | XX | X | XX | XXXX | X | XX | X | XX | X | XX | X | XX | X | XXX | X | XXX | XXX | XX | X | XX |
| CGLM | | | | | | | | | | | | | | XX | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| CGY | | | | | | | | XX | X | XXX | X | XX | X | | | | | | | | | | | | | | | |
| CHCH | | X | XXXX | | X | X | X | | X | X | X | | X | X | X | XXX | X | X | X | X | XX | X | XX | X | XX | X | X | XX |
| CHG | 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 |
| CHJ1 | XX | X | | XXXX | XXXX | | X | XXXX | X | XX | XXXX | XX | XX | XX | | XXX | X | XXXXXX | X | X | X | XXX | X | X | XX | X | XX | XX |
| CHT0 | X | XX | XXXXXXXXXXXX | 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 |
| C1N | XXX | X | X | XX | XX | XXXX | XXXX | XX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX |
| C10 | XX | XXX | XX | XX | XXX | X | XXXXXXXXXXXX | XX | XXXXXX | X | XXX | X | X | XX | X | X | XXXXXX | XX | XXXXXX | X | XXXXXX | X | XXXXXX | X | XXXXXX | X | XXXXXX | XXXXXX |
| CJR1 | X | | | XX | | X | | | X | | | | | | | | | X | XXX | X | | | X | XX | XX | X | XX | XX |
| CK1 | X | X | | XX | XXX | X | | X | XX | XX | X | XXX | X | X | | XX | XXX | | | | X | X | | | | | X | X |
| CLC | X | | X | XX | XXXX | | X | X | | X | X | XXX | XX | | | XXXX | X | X | X | | | X | X | XX | XXXXXX | XXX | XX | X |
| CL1 | | | | XX | | X | X | X | X | X | XX | XXX | | | XXXX | X | X | | | | X | X | XX | X | X | X | X | X |
| CLL | XX | XXXXXXXXXXXXXXXXXX | X | XX | XXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX |
| CMB | XX | X | XXXX | XXXX | XXX | X | X | X | XXXX | X | XXXX | XXXX | X | X | XXXX | XX | XXXX | | | XXX | XX | X | XXXX | XXX | X | X | X | X |
| CMS | | | | X | XXXX | | | | XXXXXX | X | XXXXXXXXXX | XXXX | X | XX | | XX | X | XXXX | XX | XX | | | | | | | | XX |
| CN2 | X | X | | XX | XXXX | XXX | XX | X | XXXX | X | XXXX | XXXX | XXXX | XXXX | XXXX | X | XXXXXX | X | X | X | XXXXXX | XX | XX | XX | XX | XX | XX | XX |
| CNB | | | X | XX | X | XX | | X | XXXX | X | X | XXXXXX | X | X | | XX | | | | | XXXXXX | XX | | | | | | XX |
| CNCB | XXXX | 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 |
| CNPM | XX | X | X | XXX | X | | XX | XX | XX | XX | X | X | XX | X | X | | X | X | X | X | X | X | X | X | X | X | X | XX |
| COO | | | X | XX | XXX | | X | | XXXX | X | X | XXX | XX | | XXXX | XXX | XXXX | | | X | X | X | X | X | X | X | X | XX |
| COOL | X | X | | X | XX | X | | X | XXXX | X | XXX | XXXXXX | X | | XXXX | XX | XXXXXX | X | X | X | X | X | X | X | X | X | X | XX |
| CPB | | | XX | X | X | X | | | | | | X | | | | | | | | | | X | X | | | | X | X |
| CRE | | | X | XXX | X | | | X | X | XX | XXX | XX | XX | X | X | XX | X | X | X | X | | X | X | X | X | X | X | X |
| CRP | XX | X | X | XXX | | X | | XX | XXX | XX | XX | X | X | X | XX | X | X | X | X | X | | X | X | X | XX | X | XX | XX |
| CRQ | XX | | | X | X | | | XX | | X | XX | X | | | XX | X | | | | | | | | X | X | X | X | |
| CRT | | | X | XX | | | | X | | | | X | X | X | | | | | | | | X | | | | | X | X |
| CRX | | X | | | | X | | | X | X | XX | | X | X | | X | X | X | X | | | X | XX | X | X | XX | X | X |
| CSB | | | | 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 | |
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| CTI | | | X XX | X | | | X X | | | X XXXXX | XXX XXX | XX | | X XXX | XXXXXX | | | | | X X | | X | X | | | | | X | |
| CTT | XX | XX | XXXX | XXXXX | X | | | | X XXX | X XXXXX | X XXXX | XXXX | X | XX | XXXXX | XXX | XXX | XX | XXXX | XX | XX | XX | XXXX | XX | X | X | XX | XX | |
| CVA | XX | | X X | X | | X | | XX | XX | X X | XX | X | X | X | X | | | | X | | | X | | X | XX | | X | | |
| CVF | XX | X | X | XX | XXX | X | XXX | XX | XXX | XX | XXX | X | | | XX XX | XX XXX | X | | X XXX | X | | | | | | | | XX | |
| CVL | | | X | X | | | X | | X X | X X | X X | X | X | X | XX | | | | | | X X | | | | XX | | XX | | |
| CVP | X | X | X | XX | X XX | | | | X | XX XX | X X X X | | | | | | | | | X | | | | | | | | | |
| DAG | | | | | | XXXX | XXX | XX | XXXX | X | XX | X | | | XXXXXX | XXX XXXX | | | XX XX | X | XXXXXXXX | XXXXX | XXXXX | XXXXX | XXXXX | XXXXX | XXXXX | XXXXX | |
| DAU | X | | X XX | | | | | X | | X | XX | X X | | | X X | | | | | | X X | | | X X | X | X | | X | |
| DAV | X | X | X | XXX | X | X | X | | XX XXXX | | XXXX | X | X | XX XX | XX | XXX | | | | | X | XX X | XX X | | XX X | | XX X | X | |
| DCN | X | X | X XX | XX | | | X | | | XX | | | | | | | | | | | | | X | X | X | | XX X | X | |
| DEG | | X | X | X XXX | XXX | XXXX | | XX | | | X XX | XX | XX | XXXX | X | XXXX | | | | X XX | XXX | X X | | | | | X | X | |
| DEV | X | | X | XXXX | X | X | | | | | X X X | X | | | | | | | X | | | | XXX | XX XX | X | | X | | |
| DIM | X | | X | XX | X | | | | XX | | | | | X | | XXXX | X X | | | | | X X | XX X | XX | | | | | |
| DL2 | X | | X X XX | X | | | | | XXXX | X | XXX | X | | | XX | X | XXX | | | X | X | | XX | X | | | XX X | | |
| DLA | | | | | | | | | X | X X | X | | | X | X X | | | | | X | X X | | X | | | | X X | | |
| DLE | X | | X XX | XX | | | X | | | XX | | | | | | | | | | | | | X | | | | | X | |
| DMK | XX | X | X | XXX | X XXX | X X | XX | XXXXXX | X | X | XX X | XXXX | X | XX | XXXX | X | XX | XXXXX | XXX | XX | XX | X XX | XX XX | XXXXX | XXXXX | XXXXX | XXXXX | XXXXX | |
| DMN | XX | 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 |
| DMU | X | X | X XX | XX | | | X | | X | XX | | | | | | | | | | | | | | | | | X | | |
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| DOU | XX | X | XXXXXXXXXXXX | XX | XX | X | X | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXX | X XX | X | XXX | XXX | XXXX | X | XXX | XXX | XXXX | X | XXXXX | XXX | XXX | XXXX | X | XXXXX | XXX | XXX | XX | |
| DPW | X | | X | X | | | X | | XX | XXX | XX X | XX | XXX | | | | | | X | | | X X | | XXX | X | X | X XX | | |
| DRA | X | | | XX | | | | | | | X | | | X | | | | | X X | | | | | | X X | X X | X | | |
| DRV | XXX | X | XX | | X | XX | X | XXX | X | X | XX | | | X | XX X | X | X | | | | | | | | | | | | |
| DSI | X | X | | | X | XX | | | XX | X | X | | | | X | | | | X | X | | X X | | | | | X | | |
| DST | XXX | XX | XXX | XXXXXX | XXXX | X X | X | XXXXXXXXXXXXXXXXXXXX | XX | XX | X | XXXXX | XXX | XX | XXXXXX | XXXX | X | XXXXX | XXXX | X XX | X | XXXXXXXXXXXXXXXXXXXX | XXXXX | XXXXX | XXXXX | XXXXX | XXXXX | XXXXX | |
| DTMT | | | X | X | | | | X | | | | X | | | | | | | | | | | X | X | | X | X | | |
| DUG | X | | X XX | XX | X | XX | | | X | | | | | | | | | | | | | | | | | | X | | |
| DUI | | X | X | XX | XXX | X | | X | X | X | X | XXX | | | XXXX | X | X | | | | | X | X | X | | | | | |
| DVD | X | X | X X | XX | X X | X | XX | XX | | | | | | | X X | XX | X | | | | | | | X X | X XXXX | X | X | | |
| DWY | XX | | X | XX | XX | X | XXX | X | X | XX | X | XXX | X | X | X | | | | X | X | | X | X | XX | X X | | | | |
| DZM | XXXXXXXX | 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 | |
| EBAN | X | | X | XXX | | | | X | X | XX | X | X | X | | | | | | X | X | | XX | | X | | | X | | |
| ECHE | | | X | XX | X | | X | X XX | X | X | XX | X | X | X | | | | | X | | | XX | | X | | | X | | |
| EDC | X XX | X | XX | XX | X | XXXX | XXX | X | XX | XXXXXX | X | X | XX | XX | X | XXXXXX | XX | XXXXXX | XXXX | X | XXXXXX | X | X | XXXXXX | X | X | XX | | |
| EDM | XX | | X XX | XXXX | X | XX | | X XX | XXXX | XXXXXXXXXXXX | X | X | XXXX | X | XXXXX | X | XXXXX | X | XXXX | | | | | X | X | X | | | |
| EHOR | X | | XX | XXX | X | | | X XX | XX | X | XX | X | X | X | X | X | X | X | X | X | X | XX | | X | | | X | | |
| EJIF | | | | | | | | X | X | XX | | | | X | X | | | | | X | X | X | | X | | | X | | |
| EKA | X | | XX | XXX | X | XX | X | X | XXXX | X | XXXX | X | | | XXXX | X | XXXX | | X | X | | | | XX | XXX | X | X | | |
| ELC | | | X | X | | | | X | XXXX | XXX | XX | | | | XX | X | | | | X | X | | XX | X | | X | XX | | |
| ELF | | | | X | | | | | X | X | X | | | X | X | X | | | | X | X | | X | | | | X | XX | |
| ELL | XX | XX | XX | XXXXXXXXXX | X | XX | XX | X | XXXX | X | XX | XX | | XXX | XXX | XXXXXXXXXXXXXXXXXXXX | XXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXX | XXXX | X | | |
| ELO | X | | X | X | | X | | | | | XX | | | | XX | | | | | | X | | | X | | | | | |
| EMON | | | X | X | X | | | | X | XX | X | X | | | | | | | X | X | | | X | | | | X | | |
| ENIJ | | | XXX | | | | X | | XX | | X | X | X | | | | | | X | X | | X | | | | | | | |
| ENN | X | | X | XXX | XXX | | X | X | X | XX | X | XXXX | XXX | X | X | XXXX | X | X | | X | X | X | X | XX | X | X | XX | X | |
| EPF | X | | X | XXX | X | | X | X | XX | XXXXXX | XXXX | | | X | XX | X | XXX | XX | X | XX | | XXXX | | | | | X | | |
| EPLA | | | XX | XX | X | | | X | X | XX | X | X | X | X | X | | | | X | X | X | | X | | | | X | | |
| EPRU | | | X | XX | | | | X | XX | XX | X | X | | | X | | | | X | X | X | | X | | | | X | | |
| EROO | | | X | X | | X | | X | X | X | X | X | | | | | | | X | X | | | | | | | | | |
| ERUA | | | X | X | X | | | X | | XXX | X | X | | | X | | | | X | X | | | | | | | X | | |
| ESEL | | | XX | X | | X | | X | X | X | X | X | | | | | | | X | | | X | X | | | | | | |
| ETOR | | | XX | XX | X | | | X | XX | XXXX | X | X | X | | | | | X | X | X | X | | X | X | X | | | | |
| EUR | | | | | | | | | | | | | | | | | | | | | | | | | | | XX | XX | |
| EVAL | | | X | XX | X | | | X | | XX | X | X | X | X | X | | | | X | | | X | | X | | | X | | |
| EVIA | X | | X | X | X | | | X | XX | X | XX | X | X | X | X | | | | X | X | | XX | | X | | | X | | |
| EZN | XXXX | XX | XX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXX | X | X | XXXXXX | XXXXXXXXXX | XXXX | XXXX | XXXX | XXXX | |
| FAI | | | XX | | | X | X | | X | | XX | X | | | XX | | | | | | | | | | | | | | |
| FAM | | | | XX | | | | X | | | | | | | | | | | X | | | | X | X | X | X | | | |
| FBA | XXXXX | XX | XX | XXXX | | XX | XXXXXXXXXX | XX | XXXXXXXXXX | XXX | X | XXXXX | X | XXXXXX | X | XXXXXX | X | XXXXX | X | XXXX | X | XXXXXX | XXXX | XXXXXX | XXXX | XXXX | XXXX | XXXX | |
| FCH | | X | XX | XXX | XX | X | XX | X | X | XXXX | X | | X | X | X | XXX | X | X | XX | XX | X | XX | XX | XXXX | XXXX | XXXX | XXXX | XXXX | |
| FDF | X | | X | X | X | X | | X | XXX | | | X | XXX | XX | XX | | | | | X | | X | XX | X | | X | X | | |
| FEL | X | | X | XXXX | | X | | X | | X | XXX | X | X | | XX | | | | X | X | X | X | X | X | | | X | | |
| FFC | X | X | XXX | XXXX | X | X | XX | X | XXX | XXXX | XXXXXXXXXXXX | XX | XXX | XXXXXX | XXXXXX | X | XXX | X | XXXX | X | XXXX | X | XXXX | X | XXXX | X | XXXX | XXXX | |
| FHC | X | | | X | | X | X | X | X | | | X | X | XX | X | X | | | X | X | X | | X | | | | X | | |
| FID | X | | | | | | X | | | | | | | | X | X | X | X | X | X | | | X | X | X | XX | X | X | |
| FIN | XX | X | X | XX | XXXX | X | | X | X | XXXX | XXXXXX | | | X | XXX | XX | X | X | X | X | X | X | X | X | X | X | X | X | |
| FIR | | | XX | XXX | | | | X | XX | X | XX | X | XXX | | XXX | X | XXXX | X | | X | X | X | X | | | | X | | |
| FKO | | | | X | | | X | X | X | X | X | XX | | | | | | | X | X | X | | X | X | | | | | |
| FLN | X | X | X | XX | XXXX | X | | X | X | X | XXXX | X | X | XXXX | XXXX | X | XXXX | XX | X | X | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | |
| FORR | XX | XX | XX | XXXXXX | X | XXX | X | X | XXXX | XXXXXXXXXXXXXXXXXXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | |
| FOUF | X | X | X | XX | XX | XXX | | X | XX | X | X | XX | X | | | | | | | | | | | | | | XX | XX | |
| FRB | XX | X | XX | XXXX | X | XXXXXXXXXX | XXXX | XXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | |
| FRF | X | X | XX | XXXX | X | XXXX | | X | XXXX | XXXXXX | XXXX | X | X | X | XXX | X | XXXX | X | X | X | X | X | X | X | X | X | X | XXX | |
| FRJ | XX | X | XXXX | XXXX | XXX | X | X | X | X | X | XX | XXXXXX | XXXXXX | XX | X | XX | | | XXX | XX | X | XXX | X | X | X | X | X | X | |
| FRS | XX | X | X | X | XXXX | XXX | X | X | XX | X | XXX | X | XX | XXXX | | | | | XX | XXX | XX | X | X | XXXX | X | X | XX | XX | |
| FUO | | | | | | | | | | | X | | XX | X | X | X | X | | | | | | | | | | X | X | |
| FUR | | | X | XX | XXX | | X | | | X | X | | | | | | | | | | | | | | | | | | |
| FVI | X | | X | XX | XXX | | X | X | X | XXXX | X | XXXXXX | X | | XXX | XXXXXX | | | X | XX | X | X | XX | X | X | | | | |

| DATE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
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| FVM | X | | X | X | X | | X | | X | XXX | XXX | X | | | | XX | X | X | | XX | XX | X | X | X | X | X | X | XXX |
| GAC | X | X | X | XXXX | X | | X | | X | XXX | X | X | XXXXXX | X | X | | X | X | XXXX | | X | X | | X | | X | | XX |
| GANF | X | | | | | | X | X | X | | | | X | | | X | XX | | | X | X | X | X | | | | | X |
| GBA | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXX |
| GBTN | | X | | | | | X | | | XXXX | X | X | XX | | | XX | | | | | X | | | | | XX | | X |
| GBZT | XXXX | X | X | | | XX | XXX | XX | XX | XXX | | X | XX | X | XXX | XXXX | X | X | XXXXXX | XX | XX | XX | X | XX | X | XX | XXX | XXX |
| GCC | XX | X | XX | X | XX | | X | X | X | | X | | XX | X | XX | XXX | | X | | | XX | X | | | XX | | X | X |
| GDH | XX | XX | | X | X | XX | | X | X | X | | XXX | XXX | X | X | XX | | XX | | X | | | X | X | | | X | X |
| GELF | X | | | | | | X | X | X | | | X | | | | X | XX | | | X | X | X | X | X | | | X | X |
| GEN | X | | | X | XX | | | | | | X | X | X | | | | | | | X | | | X | X | | | | |
| GHO | XX | X | X | XXX | | X | | XX | XXX | XX | XX | | X | X | X | X | | X | X | | X | X | X | X | X | XX | | X |
| GIB | | X | | XXX | X | | X | X | | X | X | | X | | | | X | | | | | | X | | | | | XX |
| GKN | XX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXX |
| GLA | XX | | X | XX | XXX | X | X | | | XX | X | XX | X | XX | X | XXXX | | XX | X | X | X | X | XX | XXX | XX | XX | XX | X |
| GLB | | | | | | | XX | XX | X | XX | | X | XX | X | | | X | | | X | | | X | | X | X | | X |
| GLD | X | | X | | XXX | | X | X | | X | XX | XXX | XX | X | | XX | | X | X | X | | X | | X | X | X | X | X |
| GLI | | | | | | | | | | | | | | | X | | X | X | X | | X | X | X | X | XX | X | X | X |
| GMW | X | | | XX | XX | X | X | | | X | | XXX | XXX | XX | X | XXX | | | X | | X | X | X | X | XX | | X | X |
| GOL | X | | XXXX | XXXX | | XXX | | X | X | XXXX | | XXX | XX | X | | XXXXXX | X | XXXXXX | | XXXXXX | X | XXXX | X | XXXX | X | XXXX | XX | XXX |
| GPA | X | X | | X | X | XXX | X | X | | XX | XXXXXX | X | XX | | XXX | | X | | XXX | | XXX | | XXX | X | XXX | X | XXXXXX | X |
| GRF | X | | XXXXXXXXXX | X | X | XX | X | X | XXXXXX | | XXX | XXXX | X | X | | XXXXXX | X | XXXX | | X | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX |
| GRG | | X | XX | | X | | | | | | | | | | XXX | XXX | X | X | XX | X | | XXXXXX | XX | X | XX | X | XX | |
| GRM | | | | | | | | X | X | XXX | | X | | | | X | | | | X | | | | | | | | |
| GRR | X | X | X | XX | XXXX | X | X | | X | XX | X | XXXX | XX | X | XXX | | XX | X | XXXX | XX | X | XXXX | XX | | XX | XX | | X |
| GRW | | X | | XX | X | X | X | | | X | | | | X | | X | | X | | XX | X | XX | X | XX | | | | X |
| GSC | X | X | X | | XX | | X | X | | X | X | X | X | | XXXX | | X | X | | X | X | X | XX | XX | X | X | X | X |
| GTA | X | X | X | XX | XXXX | XXXXXX | XXXX | XX | XXXX | XXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | X | XXXXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX |
| GUA | X | | X | XXXXXX | X | XX | X | | X | XXXX | X | X | XX | X | XX | XXX | X | | XXX | | XXX | XXX | XX | X | XX | X | XXXX | X |
| GUD | | | XX | XX | X | | | XX | X | XX | XXXX | XX | X | X | X | | X | X | X | X | X | X | X | X | X | X | X | X |
| GUMO | X | X | X | XXXXXX | X | X | X | | X | XXXXXXXXXX | | XXX | XX | XX | | XXXX | X | XX | | XX | | X | X | XX | X | XX | XXX | XX |
| GUN | XX | XXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXX |
| GWF | | X | XXX | | X | | | | | X | XXX | X | | | | XX | | | X | | X | X | X | XX | X | | | |
| GYA | X | X | X | XX | XXXX | XXX | XXX | | X | X | XXXX | X | XX | XXXXXX | XX | XXXXXX | XXXXXX | XXXXXX | X | X | XXX | XXX | X | XXXXXX | XXXX | XXXX | XXXX | XXXX |
| GZH | X | X | | XX | X | | | X | XXXX | XX | XXX | X | | | | X | XX | | | X | X | X | | X | X | X | XXXX | XXXX |
| HAU | X | X | X | XX | XXX | | X | X | X | X | XXX | X | XXXXXX | X | XXX | X | XXXX | | XX | XXX | | X | X | XXXX | XXXX | XX | X | X |
| HCC | X | | X | | X | X | X | | | X | X | XX | | | | XX | | | | | | X | | | | | | |
| HDC2 | | | X | XX | X | X | | | | | | | | | | | | X | | | | | | | | | X | |
| HFS | XX | X | X | XXXXXXXXXX | XXXX | XXXX | X | X | XXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | X | XX | X | XXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | XXXX |
| HHC | X | X | | XX | XXXX | XXXXXX | | X | XXXXXX | XXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | X | X | XXXX | X | XXXXXX | XX | X | XX | XXXX | XXXX | XXXX |
| HIN | XX | X | X | X | | X | | XX | X | XX | | X | X | X | XX | X | | X | | X | | X | X | X | X | XX | X | X |
| HJA | X | XX | X | XXX | XXX | XX | XX | X | X | XX | XX | X | X | XX | XXXX | XXX | | X | XXX | X | | XXX | X | XX | XX | X | X | XXX |
| HKC | | X | | X | | | | | | XXXX | X | | X | | | | X | | | | X | | X | X | X | | XX | |
| HLW | | X | | XXX | | X | XX | XX | | XXXXXX | X | | X | XXX | X | X | | X | X | X | | X | XX | X | X | XX | X | X |
| HNR | X | XXXXXX | X | X | XXXX | X | XX | XXX | XX | | XX | X | | X | XXXX | XX | XXX | X | X | XXXXXXXXXX | XXXXXX | XX | X | XXXXXX | XX | | X | XX |
| HOM | | XX | X | | | | | X | XX | X | | | X | | | | | | | | | X | | | | | | X |
| HON | X | | | X | | | X | X | X | | X | | XXX | | XX | | | | | | | X | | | | X | | X |
| HOOJ | XXX | XX | | | X | XXX | | X | X | | XXX | X | XX | X | X | | X | | XXX | X | X | X | X | X | X | X | X | X |
| HPI | | | | | | | | | | | | | | | | | | | X | | X | X | X | X | X | XX | XX | |
| HQL | | | | | X | | X | X | XX | XXX | | XX | X | X | | X | | | | X | | X | X | | | | | |
| HRI | | X | | X | XXX | X | | | | XX | XX | | X | | | X | X | X | XX | | X | | | X | X | X | X | X |
| HRT | | | XX | XXXX | X | | XX | XX | XX | X | X | | | | | XX | X | XXX | X | XXXXXX | XX | XXXXXX | XX | XXXXXX | X | X | X | XX |
| HVAR | X | X | | X | X | XX | | XX | | XX | X | XX | X | | | | X | X | | X | X | | X | | X | | | |
| HVD | | | | | | | | | | | | | | | | XX | X | | X | X | | | | | | | | |
| HYA | XX | X | X | | | | | X | X | X | X | X | X | X | X | | X | | X | | X | | X | | X | | X | X |
| HYB | X | XX | XXXXXXXXXXXXXXXXXXXX | XXX | XX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXX |
| HYT | XX | X | XX | X | XX | | XX | XX | XX | XX | X | X | XX | XX | XX | XX | | XX | XX | XX | X | | XX | XX | X | | | |
| ICR | | | X | X | X | X | | | | X | | | | | | | | | | | | X | | | | | X | X |
| IFR | X | X | | XX | XX | XX | X | XX | XXX | X | X | XX | X | XX | XX | XX | X | XX | X | X | | | | X | X | X | X | X |
| IIC | X | | X | XX | | X | | | | X | XX | | X | X | | X | XXXX | | X | | X | X | X | XX | X | X | X | X |
| IDJ | XX | X | | XXXX | X | XX | | | X | XXX | X | XX | XXX | XX | X | | | X | XXXX | X | X | X | | XXX | XX | | XXX | XXX |
| III | | XX | XXXX | | XX | | X | | XX | X | XXX | | XX | X | X | XXXXXX | | X | X | X | X | | X | XX | X | XX | X | X |
| IISM | XX | XXXX | XXX | X | XX | X | X | X | XX | X | X | XX | X | X | X | XXXXXX | | X | XX | XXXXXX | XX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX |
| IIT | | X | X | X | XX | | X | X | X | | X | | X | X | X | X | X | | X | | | XX | X | X | X | X | X | X |
| IKL | X | | X | XX | XXXXXX | | | X | XX | | | X | | X | | XXXX | X | XXXX | X | XXXX | X | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX |
| ILIM | XX | X | X | X | X | | XX | XXX | XX | X | X | XX | XXX | | X | X | X | X | | X | X | X | X | X | X | X | X | XX |
| IMA | XXX | X | X | XX | XXXX | XXXXXX | XX | | XXXX | X | XXX | XXXX | X | XX | XX | XXX | XX | XXXXXX | X | X | XX | X | XXXXXX | X | X | XXXXXX | XXXXXX | XXXXXX |
| IMI | XX | X | X | XX | XXX | X | X | | X | XXXX | XXX | XX | | X | XX | XX | X | X | | X | X | X | X | X | X | X | X | X |
| INK | XXXXXX | 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 | XXXXXX |
| IPM | X | XX | | XX | X | XXX | | | XXXXXX | XX | X | XX | X | X | X | XX | | XXXXXX | | XXXXXX | | X | X | XXX | XXX | X | XX | X |
| IRZ2 | | | X | XX | X | X | | | | | | | | | | | | | | X | | | | | | | X | |
| ISA | X | X | XX | X | X | | X | X | | XX | X | X | | X | | X | X | X | | X | X | X | XXXXXX | XX | | X | X | X |
| ISK | X | X | | XX | XXXX | XXXX | X | XX | XX | XXX | XXX | X | XX | X | XX | XX | XXXX | XX | XXXX | XX | XX | XXXX | XX | XXXX | XX | XXXX | XXXX | XXXX |
| ISR | X | | X | X | XXX | X | XX | | X | XX | | X | XXX | X | XXX | XXXX | | X | | | | X | X | XX | X | X | XX | XX |
| ITA | | | | | | | | XX | XXXXXX | X | XXXX | XX | XX | XXXX | XXXXXX | XX | XXXX | XX | XX | | XX | XX | XX | XX | X | X | X | X |
| ITB | X | XX | | | | X | X | | X | X | | XX | | | | X | X | | | | X | | X | | | | X | X |
| ITB1 | X | X | X | | XX | | X | X | | X | X | | XX | X | | X | X | XXX | | XX | | XX | | | | X | X | X |
| ITB7 | X | X | | | X | | | X | X | | | | | | | | | XX | | | | X | | | | | X | X |

| DATE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | | |
|------|----------|------------------|--|--------------|--------|--------------|----------|------------|------|------------------------------|--------------|--------------|--------------|--------|----------|------|--------|------------|--------------|----------------------|----------------------|--------------|--------------|------------|--------|------|------------|------|------|----|
| JARJ | | | | XX | | | X | | | | X | | | | X | | | X | XX | X | | | | X | | X | X | XX | | |
| JAY | | | | | | | X | X | | X | XX | X | X | | XX | X | XX | XX | XX | X | X | | X | | | | | X | XX | |
| JCR | | | | | | | X | | | | | | X | | | XX | | | X | | | X | | | | | X | | X | |
| JMB | XX | | | X | XXX | | | | | X | XXX | X | | XX | | X | | XX | | | | | | X | XX | | X | | X | |
| JSC | | | | X | X | X | | X | | X | XXX | | X | X | | | | | | | | X | X | X | | | XX | X | X | |
| JVI | | | | | XXX | | | | | X | XXX | XX | | | X | XXX | | | | | | X | X | | | | | | | |
| KAGJ | XXX | | | X | XX | | | X | | X | | X | XX | X | | | | XX | X | XX | X | X | X | X | X | X | X | X | X | |
| KAKJ | XX | X | | | XXX | XXXX | | | X | XX | X | X | X | XXXX | X | | | XX | X | X | X | X | X | X | X | X | X | X | X | |
| KAP | | | | X | | | | | | X | XX | X | | X | X | XX | XX | X | X | X | | XXXX | XX | X | XXX | X | X | XXXX | X | |
| KAS | | | | | | | | | | | | | | X | XXX | XXX | X | | XX | | X | X | X | XXXXXXXXXX | X | XX | XX | X | | |
| KBA | XX | XXXXXXXXXXXXXXXX | | | | XXXXXXXXXXXX | | | | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | | | | XXXXXX | XXXXXXXX | | | XXXXXX | | X | XXXXXXXXXXXXXXXXXXXX | | XXXXXXXXXX | XX | | XX | | | XX | |
| KBN | | | | | | | | | | | | | | | XX | | | XXX | | X | X | X | | XXX | | | | | | |
| KCT | XXXXXXXX | XXX | | XXXXXXXXXXXX | X | | X | XXXX | X | | | | XXX | XXX | XX | X | XX | X | XX | XX | XXXXXXXXXXXX | | X | X | XXXX | X | | | X | |
| KDC | XX | | X | XX | XXXX | | XXXX | | XXX | XXXXXXXX | XXX | XXXX | XX | X | XXXXXX | | | XXXXXX | | XXXXXX | XX | X | X | XXX | XX | XX | | XXX | X | |
| KDZ | XX | | X | XX | XXXX | | XX | X | X | XXXX | | X | XX | X | | XX | | X | XXXX | | X | X | | X | XX | XX | X | XX | X | |
| KER | X | X | X | | | | X | X | X | X | XX | | | X | X | X | X | XXX | | X | XX | X | X | XXX | X | X | X | XXX | XXX | |
| KEV | X | | | XX | XX | X | | X | X | X | | XXXX | X | XXX | XXXX | X | X | XX | | X | XXX | X | X | X | X | XXXX | XX | | XX | |
| KFNJ | | | | | XX | | | | | | X | X | X | XX | | | | X | XX | X | | | | X | X | | X | XX | | |
| KGM | | | | | X | X | | | | | XXX | | X | X | XX | | | X | XX | | XX | XXX | X | | X | X | X | XX | XX | |
| KHC | XXXXXX | XXXXXXXXXXXX | | | | XXXXXXXXXXXX | | | | XXXXXXXXXXXXXXXXXXXXXXXXXXXX | | | | XXXX | XXXXXXXX | | | XXXXXXXXXX | | XXX | XXXXXXXXXXXXXXXXXXXX | | XXXX | XXXX | | XXXX | XXXX | | XXXX | |
| KHI | XX | | | X | XXX | X | XX | X | | X | XXXX | | | | XX | | | X | XXXX | X | X | XX | X | | X | X | XX | X | XXX | |
| KHKL | | | | | | | | | | | XX | X | XXX | | | | | XXXX | | XXXXXX | XX | XXXX | | XX | X | XX | XXXXXXXXXX | | XX | |
| KHL | X | XX | X | XX | XXXX | X | XXXX | X | X | XXXXXXXXXX | X | XX | XXXXXX | X | XX | X | XXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | |
| KIC | XX | X | X | XX | XXXXXX | | X | X | XXXX | X | XXXX | X | X | XXXX | XXXX | | | XXXX | X | XX | XXXX | | XX | XXXX | XXXXXX | XXX | X | XXXX | XXXX | |
| KIM | | | | | | | | | | | XXX | | X | | | | | | X | XX | | X | XX | XX | XXX | | | | | |
| KJF | X | | | X | XXXXXX | | XX | XX | XX | X | XXXXXXXXXX | XXX | XXXXXXXXXXXX | XXXXXX | | | | XXXXXX | XXX | XXXXXXXXXX | X | XXXXXXXXXXXX | XXX | XXXXXXXXXX | XXX | XX | XX | | XX | |
| KKB | X | | | | XXX | | | | XXX | XX | | | | | | | | | | | X | | | | X | X | XX | X | XXX | |
| KKM | X | | | | X | X | | X | X | | XXXX | | | | | | | | | | | | | | | | | | X | |
| KKN | XX | XXXX | XX | | | | | | | | | | | | XXXX | | | | | | XXXXXXXXXXXX | X | XXXXXXXXXXXX | XXXX | XXXX | XXXX | | XXXX | XXXX | |
| KKS | | X | X | XXX | XX | | | XXXX | X | X | X | X | X | X | | X | X | X | XXX | | | | | | X | X | | | | |
| KLB | X | XX | | XX | XX | XX | | X | X | X | X | XXXX | X | XXX | XXXX | X | X | XXXX | | XX | XXXX | X | | X | | X | X | X | XX | |
| KLI | | X | | | | | | X | X | XX | XXX | XXX | X | XX | X | | | | | X | X | | X | X | XXXX | X | X | X | X | |
| KLU | XX | | X | X | X | X | | X | | XX | XXX | XX | XX | | X | X | XX | X | XXX | X | X | X | X | X | X | X | X | X | XX | |
| KMI | XXX | | XXXXXX | XX | | XX | | XXX | XXXX | X | XX | XXXXXX | | XXXX | XXXXXX | X | X | | XXXX | XXXXXX | X | X | XX | XXX | XXXXXX | X | XX | XX | X | |
| KMR | | | | | | | | | | | X | X | | X | X | | | XX | X | X | | X | X | X | X | X | X | X | | |
| KMSA | | | | X | X | | | | | X | XX | X | | | | | | XX | X | | | | X | X | X | X | | XX | | |
| KMY | | | | X | | | | | | X | X | X | X | X | X | | | X | X | X | X | | X | | X | X | X | X | X | |
| KMZ | X | | XX | XX | XX | X | X | X | X | XX | XXX | XX | XX | X | X | XX | | | XX | X | XX | XX | | X | X | X | XXXX | XX | XX | |
| KNA | X | | XX | XXXX | XXX | XX | | XXXXXXXXXX | XX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXX | X | XXX | XX | | | XXXX | X | XXX | XX | X | XXXX | XX | XX | XXXX | X | XXXX | |
| KNIM | | | | | | | X | | | | | | | X | XX | X | X | X | X | X | | X | X | X | XX | X | X | X | XX | |
| KNK | XX | | X | X | X | X | | X | | XX | XXX | XX | XX | X | X | X | XXX | X | X | X | X | X | | X | X | X | XX | X | XX | |
| KNT | | | X | XX | | X | | | | | | | | | | XXX | XXXX | X | X | XXXX | XX | X | XXXX | XX | X | XX | X | XXX | | |
| KOD | X | | | XXX | X | XX | X | | X | | XXXXXXXXXX | XXX | XXXX | | | | | XXXX | X | XXX | XXXX | | XX | X | X | X | X | XXXX | XXXX | |
| KOGH | | | | XX | XX | X | | X | | XX | X | XX | X | X | X | XX | X | | X | X | | | XXX | X | X | X | X | XX | XX | |
| KOT | | | | | | | | | | | | | | | | | | X | | XX | X | | | | | | | | | |
| KRA | XXX | X | XX | XXXXXX | | X | X | | X | XXXXXXXX | XXXX | XXXX | XX | X | | XXXX | | X | XX | X | | | XXX | X | XX | X | XX | X | XXXX | X |
| KRNA | X | | | X | | | | | | | | | | | | | | X | X | X | X | | X | | X | | | | | |
| KRP | | | | X | XXX | | XX | X | | X | XX | X | X | X | XXXX | X | XXXX | XXX | X | X | | | | X | X | XX | XX | X | XX | XX |
| KSH | X | | | XX | XXX | | X | X | XX | X | XXXX | | X | X | XXXX | X | X | XX | X | XX | XX | XX | XX | XX | XX | XX | XX | XX | XXXX | |
| KSI | | | | | | | X | | | | | | | XX | XX | XX | X | X | X | XX | X | X | X | XX | X | | | | | |
| KSL | | | | | XX | XX | X | X | | | XX | X | | | X | X | | XX | X | X | X | XX | | X | X | XXXX | X | XX | | |
| KSP | XXX | X | X | XXXXXXXXXX | | X | XX | XXX | X | XXXXXXXXXX | XXXXXXXXXXXX | X | | XXXXXX | X | XX | X | | X | XXXXXXXXXXXXXXXXXXXX | | XXXX | X | XXXX | XXXX | | XXXX | XXXX | XXXX | |
| KSR | | | | | | | | | | | | | | XX | X | XX | | | XX | XXXX | XX | X | XX | XX | XX | XX | XX | XXXX | XXXX | |
| KUK | XX | X | | XX | XX | X | | X | X | | X | XX | X | | XXX | XX | XX | | X | X | XXX | | X | X | X | X | X | | | |
| KUMJ | XXX | | | X | XX | | X | | | XX | | X | | XX | X | | | X | | XX | X | | XX | X | X | X | X | | X | |
| KUPT | | | | X | | | XXX | X | | X | XXX | | X | X | XX | | | X | X | X | | | | | | | | | | |
| KUSJ | XXX | X | | | X | XXX | | X | X | X | XXX | X | XX | | XX | XX | X | | | | XXX | X | X | X | X | X | | X | | |
| KVN | XX | XX | | XXXX | XXXX | XXXX | XXXX | X | X | XXXX | X | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | X | XXXX | XX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | |
| KVT | X | | | X | XX | X | X | X | X | X | XX | X | X | X | X | X | | | XX | X | | X | X | XXXX | XX | X | XXX | | XXX | |
| KZN | | | X | X | X | XX | | XX | X | | XXX | | X | X | XX | XXX | X | | XXX | X | X | X | X | X | X | X | X | X | XXXX | |
| LACI | | | | | | X | XXX | | | | XX | X | | XXX | | | | X | X | | | X | X | X | X | XXX | X | | | |
| LAT | XXX | XXX | X | XXX | X | X | XXXXXXXX | X | X | XX | X | XXXXXXXX | XXXX | X | XX | XXX | XXXXXX | XXX | XXXXXXXXXXXX | XXXX | XXXXXXXXXXXX | X | XXX | X | XXXX | XXXX | XXXX | XXXX | XXXX | |
| LBF | XX | XX | XX | XXXX | X | XX | X | XX | X | XXX | XXXXXXXX | X | XXX | X | XXXX | XX | XXX | | X | X | X | XX | XX | XXXX | | | | | X | |
| LBFM | | | | XX | XXXX | | X | X | X | XX | | XX | XX | XX | | XXXX | X | | | X | X | X | X | XXXX | | X | | | X | |
| LBL | XX | | | X | | | | | | | | | | | | | | XX | | | | | XX | X | X | X | | | X | |
| LCCH | | | XXXX | XXX | XX | X | XX | X | | X | XX | X | X | | X | | | XXX | X | X | | X | X | X | XX | | X | | | |
| LCI | | | | X | XXX | | | | | | X | X | X | | | | XX | | | | X | X | | | | | X | X | | |
| LCR2 | | | | X | XX | X | | X | | | X | | | | | | | XX | | | X | | | | | | X | | | |
| LDF | X | X | X | XX | XXX | X | | X | | X | XX | X | XXXX | XX | X | X | | XXXX | | X | XX | XX | | X | XX | XX | XXX | XX | X | |
| LDN | | | | | | | | | | | X | | X | X | X | | | X | X | X | | X | X | X | | | | X | XX | |
| LEGH | | | | XX | XX | X | | X | | XX | X | X | X | XXX | | | | X | X | X | | | XX | X | X | X | | X | | |
| LFF | XX | X | X | XXXXXX | X | | X | X | | X | XXX | XXXXXX | XXXX | XXX | X | | XX | X | | XXX | X | X | X | XX | XX | X | XXXX | | X | |
| LFK | X | X | X | | XXX | X | | | | | X | | X | | | | | XX | X | | | | | | X | X | | | | |
| LHS | | | | X | | | | | | | XXXX | X | X | X | | | | | | | | | | | | | | | X | |
| LIC | XX | X | X | XX | XXXXXX | | XXX | X | XXXX | X | XXX | X | X | XXXX | X | X | XXXX | | X | XXXX | | XX | XXXX | XXXXXX | XXX | X | XX | XX | XX | |
| LIT | | | | X | XX | | X | | | | | | | | | | | XX | | XX | XX | X | XXXX | X | | | | | | |
| LJU | X | X | | XXXXXX | XXX | | X | X | X | | X | XX | X | XXX | XXX | XX | | | XXXX | | XXXX | XXXX | | X | XX | XX | XXXX | XXX | XXX | |
| LLA | X | | | XX | XXXX | | XX | X | X | | X | X | X | | XXXX | | | X | XX | | XXXX | | | | | | X | X | X | |
| LMG | XX | X | XX | XXXXXX | X | X | XX | 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 | |
|------|----------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------|
| LNO | XX | X | X | XXXXXXXX | XX | X | X | XXX | X | XXXXXX | X | XXXXXX | X | XXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | |
| LNW | | XX | X | XXX | XX | XX | XX | X | | | X | | | X | X | XXX | XXX | X | X | XXX | X | XX | XXX | X | | | | | |
| LOE | X | | XX | X | XX | X | | | XXXXX | X | XX | XX | X | | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | |
| LOMF | | | X | XX | | | | | | | X | XXX | X | | X | | | | | | X | X | X | X | X | X | X | XX | |
| LON | X | | | XXX | X | X | X | X | XXX | XXX | XXX | X | X | X | X | XXXX | X | X | | X | X | X | X | XX | XX | X | X | XX | |
| LOR | XX | XX | XX | XX | XXXX | X | X | XX | X | XX | X | XXX | XXXXXXXXXX | XXXXX | X | XXXX | XX | XXX | X | X | X | XX | XX | XXXX | XXXX | X | X | XX | |
| LPB | XXXX | XXXXXXXXXXXXXXXXXXXX | 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 | |
| LPF | X | X | X | XX | XXXX | X | X | X | X | XX | X | XXXX | XX | X | XXX | XXX | X | XXXX | XX | X | X | X | XXXX | XXX | | XX | | X | |
| LPG | X | XX | X | XXXXXXXX | X | X | XX | XX | X | XX | XXXXXXXX | XXXXXXXXXX | XXX | | XXXX | XX | XX | XXX | X | X | X | XXXX | XXXX | XX | XXXX | XXXX | XX | XXXX | |
| LPL | | | | XX | | | | | | X | XXXX | X | X | | | | X | X | | | X | X | | | X | | | X | |
| LPO | XX | X | X | XXXXXXXX | X | X | X | | X | X | XXX | XXXXXX | XXXX | XXX | X | XXXX | X | XXX | X | XX | | XX | XX | X | XXXX | | | X | |
| LPR | | | X | X | XX | | | | | | X | X | X | | | | X | | | | | | X | | | X | | X | |
| LRG | X | X | | X | XXXX | X | XX | | X | XX | XXXX | XXXX | X | X | X | XX | X | XX | XXX | X | X | X | XX | X | XXXX | | | XXX | |
| LRM | XX | | XXXXX | XXXXXX | XXXXX | XXX | | XX | X | XXXX | XXXXXXXXXXXX | XXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | |
| LSA | X | | X | XXX | X | | | X | XXXX | XX | X | XXXX | | | XXXX | XXX | XXXX | XX | XX | X | X | XXX | XX | X | XX | X | XX | XX | |
| LSD | XX | | X | XX | XXXX | XXX | | X | X | XXXX | XXX | XXX | | | XXX | XX | X | X | X | | X | X | X | X | | | | X | |
| LSF | X | X | XX | XXXXXX | X | | X | X | XX | X | XX | XXXX | XXXX | XXX | X | XXXX | X | | XX | XXX | | XX | X | XX | XXXX | | X | X | |
| LSK | | X | X | XXX | XXX | | X | XX | | XX | X | | X | X | X | | | | | | XX | X | X | X | X | XX | XXX | | |
| LSM | X | | | | | | X | X | | | X | | | | X | XX | | | | | | | | X | X | | | | |
| LSZ | | X | XXXX | XX | XX | X | XX | X | | | | | X | | | XXX | | XX | X | XX | X | | XXX | X | X | XXX | X | XXXX | |
| LTCM | X | | | XX | | | X | X | X | | | XX | X | X | X | | XX | X | | X | | | X | | | | | | |
| LV1 | | | | XX | | | X | | | | | X | | | | X | XX | | | X | | | X | | | | | | |
| LW1 | | | | X | | | | X | X | | | | X | | | | | X | X | XX | | X | X | X | | X | | XX | |
| LZH | XX | X | X | XXXXXX | XXXXXXXX | X | XX | XXXXXX | XXXXXXXXXXXX | XXXXXX | XXXXXXXXXXXX | XXXXXX | XXXXXXXXXXXX | XXXXXX | XXXXXX | X | XXXXXX | X | XXX | X | XXXXXX | XX | XXXX | XX | XXXX | XX | XXXX | XXXXXX | |
| MAF | XX | | XX | XXXXXX | X | X | XX | X | XX | X | XX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | X | XXX | | X | X | XX | XX | XX | XXXX | XX | | | X | |
| MA10 | | | | | | | | | | | | | | | | XXXXXXXXXXXXXXXXXXXX | X | X | X | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | |
| MAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| MAO | | | X | XX | | | | | | | X | XX | X | | | X | X | XX | X | | | | X | | | | | X | |
| MA5J | | | | | | X | | | | | XX | | | | X | | XX | X | | | | | X | | | X | | XX | |
| MAT | XXXX | | | XXXXXXXX | | XX | XXXX | X | XXXX | XXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXX | |
| MAW | XX | X | XX | X | X | XX | X | XX | X | XXXX | | XXX | XXXX | | X | X | XXX | | XX | X | | | | X | X | XX | | XX | |
| MBC | XXX | | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXX | X | XX | XXXXXXXXXXXXXXXXXXXX | XXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXX | |
| MBH | X | | X | XXXX | XXX | X | X | X | | XXXX | XX | X | X | X | XXXX | X | XX | X | | X | X | | XXXXXXXX | X | XX | | | XXX | |
| MBL | XX | | XXXXXXXXXXXX | XXX | XX | | | | XXXX | XXX | XXXX | XXXX | X | XXXX | XX | X | XXX | XXX | XX | XX | XX | XX | XX | XXXX | XXXX | XXXX | XXXX | XXXXXX | |
| MCK | XX | | | X | | X | | | | X | X | | X | | X | | | X | | | | X | | X | X | | | XXXXXX | |
| MCO | | XX | | X | | | | | XX | | X | X | | | | | | | | | | X | | | | | | XX | |
| MCP | | | X | | X | X | X | | | X | | XX | | | | | | X | | | | | | | | | | X | |
| MCW | | | | | | X | | | | X | XXX | | X | XX | | X | | | X | | | X | X | X | X | | | X | |
| MD1 | | | X | | X | | | | X | XX | X | XXX | XXX | | | XXXX | | | | | | | X | | | | | X | |
| MDJ | X | | XX | XXXX | X | XXX | XX | | X | XX | XXXX | X | XX | XXXXXX | XX | XX | XX | X | XXX | XXX | | XX | X | XXXXXXXX | | X | | XXXX | |
| MDZ | | | | | XX | XX | X | X | X | X | XXXX | X | | XXX | X | X | XXXX | X | X | | | | X | X | XX | XX | X | XXXX | |
| MEKA | X | | XX | XXXX | XX | X | X | XX | X | XX | XXXX | X | XXX | XXXX | XXXX | XXXXXX | XX | X | XXX | X | | XX | X | XX | X | X | X | XX | |
| MEM | XXXX | X | XXXXXXXXXX | | XX | XX | X | X | XXXXXXXXXXXX | XXXXXXXXXX | XXXXXXXXXX | XXXXXXXXXX | XXXXXXXXXX | XXXXXXXXXX | XXXX | X | XXXX | X | XXX | XXXX | X | X | XX | XX | XX | XX | XX | XX | |
| MEQ | XX | X | X | XXX | XXXXXXXXXXXX | X | X | XXXX | X | XXXXXXXXXX | X | X | XXXXXXXXXXXX | X | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | |
| MEU | | X | X | X | | X | X | X | | X | | X | | | | XX | X | X | X | | | X | XX | XX | X | X | X | XX | |
| MFF | X | X | XX | XXXX | X | | | X | X | XX | XXXXXX | XXXXXXXXXX | XXXXXXXXXX | XXXXXXXXXX | XXXX | X | XX | XX | XX | XX | XX | X | X | XX | XX | X | X | X | |
| MGG | X | XX | XX | X | XX | XX | XXX | | XX | | XX | X | XX | | XX | X | XXX | X | | XX | | XX | X | XX | XX | XX | XX | X | |
| MGH | X | X | X | XX | X | X | X | | X | | XX | | | | | | X | X | | | | | X | X | X | X | XXXX | X | |
| MGP | | | X | | X | X | | | | X | X | X | XX | | | | X | | | | | | | | X | | | X | |
| MGR | XX | X | X | X | XX | XX | X | XX | | XX | XXX | XX | X | | | XXX | X | X | X | | | X | XX | XX | X | X | X | X | |
| MHC | XX | X | XX | X | XXX | XX | X | X | | X | X | XX | XXXXXX | | XXXXXXXX | XX | X | X | | | XXX | X | | X | XX | X | X | X | |
| MHI | XXXX | | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXX | |
| MID | X | | | X | | | | XX | | X | | X | | | XX | | | | | | | X | | | X | X | | X | |
| MIM | | X | | X | X | | | | X | X | X | | | | | X | X | | | | | | | X | | | | X | |
| MIN | X | X | | XX | XXXX | | | | X | X | X | XXX | XXXXXXXX | | XXXX | X | X | | | | XX | X | X | | X | X | | XX | |
| MKRJ | | | | X | | | | | | X | | X | | | | | | X | X | X | | | | X | | X | | XX | |
| MKS | | | X | | X | X | X | | XXXX | | X | XXXX | | | X | XX | | | | | | | X | X | X | X | X | XXXX | |
| MLR | XXX | XXX | XXXXXXXXXX | X | XX | XXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXX | |
| MMB | X | | X | XXXX | XX | X | XXXX | XXXX | | XXXX | XXXX | X | XX | X | | XX | XXXX | | X | | | | X | XX | XX | X | XXX | X | |
| MME | X | | XX | XX | | X | | | | X | X | X | X | | | XXX | XXXX | X | | | | X | X | X | XX | | | | |
| MNA | | X | | X | | | | | X | XX | | XX | X | | X | | X | | | | | | | X | | | | X | |
| MND1 | | XXXX | X | X | X | | X | X | | XXXX | XX | X | XX | X | X | XX | X | XX | XX | X | X | X | X | X | XX | X | X | X | |
| MN1 | X | X | XX | X | XX | X | XX | XXX | XXXX | X | XXXXXXXX | | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXX | |
| MNO | | X | X | XXX | X | | | | X | X | X | | | | XXX | | X | XX | | | | X | XX | | | | | | |
| MNS | | XX | X | X | XXX | XX | | | X | XXX | X | XXX | X | X | XX | X | XXX | XX | XX | | XXX | X | X | X | | | | XX | |
| MOF | | X | | XXX | | X | X | | | X | XXX | X | X | X | | XX | | | | | X | X | X | X | X | | | | |
| MOX | XX | X | XXXX | XXXX | | XXXX | XXXXXXXXXX | XXXX | XXXXXXXXXX | XXXX | XXXX | X | | | XXXX | X | XX | X | X | X | XXXXXXXXXXXXXXXXXXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | |
| MRRJ | XX | | X | | X | XXX | | X | | XXX | X | XX | XX | XX | X | | | XX | X | X | X | X | X | X | | | | | |
| MRWA | | XX | | X | XX | XXX | X | XX | X | XXXX | X | XX | X | X | X | XXXX | | X | | X | X | XX | | X | X | X | XXXX | XXXX | |
| MSL | X | X | X | XXX | X | XX | X | X | | XXXX | X | XX | X | | X | | XX | | | | X | X | X | XX | XX | XX | XXXX | XXXX | |
| MSU | | | X | XX | XXXX | | XXX | X | | XXX | | XX | XXX | X | | X | XXX | X | X | | | | | | | | | X | |
| MSZ | XX | X | | X | XX | X | XXX | | XXXX | | X | XX | XX | X | | XXXX | | XX | | | | | | | | | | X | |
| MTMJ | XX | X | | XXXX | XXXX | | | X | XXXX | X | XX | XXX | XX | X | | | X | X | X | XXXX | X | X | X | XXX | X | | | XXX | |
| MTN | XXXXXXXX | XXXXXXXXXXXXXXXX | 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 | XXXXXXXX |
| MTU | | | | | X | X | | | X | | | | | X | | | | | | | X | X | X | X | XX | X | | X | |
| MUD | | | | | | | | | X | | XX | X | | | | XX | | | | | | | | X | | X | | | |
| MUN | | XX | | XX | XX | X | | X | X | X | XXXX | X | XXX | XXXX | X | X | XXXX | XX | XXXX | | X | X | X | X | X | X | X | XX | |
| MVIF | | X | | X | X | XXX | | X | X | XX | XXX | X | XX | X | X | | X | XX | XX | X | X | X | X | X | | X | | X | |
| MVM | | 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 |
|------|----------------------|----------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| NA1 | X | XXX | XXXX | X | X | XXXX | X | X | XXX | X | XXX | X | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX |
| NANU | XX | XX | XX | XXXX | XXX | X | X | XXXX | X | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX |
| NAO | XX | X | X | XXXXXXXXXX | XXX | XX | | XX | | | | | | | | | | | | | | | | | | | XXXX | |
| NB2 | | | | | | | | | | XXXXXXXXXX | XXXXXXXXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX |
| ND1 | X | X | XXX | XXXXXXXXXX | XXX | XX | | XXX | XXXXXX | XX | X | XXXXXXXXXX | XX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX |
| NEA | XX | | | X | | X | | | | X | X | | | | | | | | | | | | | | | | | |
| NEO | | | X | X | XX | X | X | X | | X | | | X | X | XX | X | X | XXX | X | XXX | X | | X | X | X | X | XXX | X |
| NEV | | X | X | XX | X | X | | | | X | X | | | | | | | | | | | | | | | | | X |
| N11J | XX | | | XXXX | X | X | | | X | XXX | X | X | XXX | X | X | | XXX | X | XXXXXX | | X | X | X | | XX | X | | XXX |
| NJ2 | X | X | | XX | X | XX | | | X | X | XXXX | X | XX | | | X | X | | X | XXX | | X | X | | X | X | | XXXX |
| NKA | XX | X | X | XXX | | X | | XX | XXX | XX | XX | X | X | X | X | X | X | X | X | X | X | X | X | X | X | XX | X | XX |
| NKY | | X | | | | X | X | X | | | X | X | XX | X | | | X | | | | | | | | | | X | |
| NNL | XX | | X | X | XXX | | X | | XX | XX | XX | X | X | XX | | | | X | X | X | X | | X | X | X | XX | X | XX |
| NNT | X | | X | X | XXXX | XXX | | X | | XXX | X | XXX | X | X | X | XX | | XX | XXX | XX | X | XX | XX | XXX | XX | X | X | XX |
| NOH | | | | | | | | | | XXX | | | X | X | | | | | | | | | | | | | | |
| NOP | X | | X | X | | X | X | | | X | | | | X | X | XX | | | | | | | | | X | | | |
| NPA | | | | X | XX | | X | X | | X | XXXX | X | XX | X | | | | | | X | X | X | X | | X | | | X |
| NPS | | X | | XXX | | XX | | X | | XX | X | | X | X | XX | XXX | X | | X | X | XXXX | XX | X | XX | XX | X | XXXX | |
| NRA0 | X | | XX | | | | X | | X | XX | X | XXX | XXX | XXX | X | X | XX | XX | XX | X | X | X | XXXX | X | X | XX | X | X |
| NST | X | | XXX | XX | | X | X | | | XXXXXXXXXX | XXX | XXXX | X | X | X | XX | | XX | XXX | XX | XX | X | X | XXX | X | XX | X | XX |
| NUR | XX | | XXXXXXXX | | XXX | XX | X | | | XXXXXXXXXX | XXXX | XXXX | XXX | | X | XXX | XX | XXXX | XX | XXXXXXXXXXXX | XXXXXXXXXXXX | X | X | | XX | XX | | XX |
| NWAO | X | XX | X | XX | X | | X | X | X | X | XXXX | X | XXX | XXXXXX | X | XXXXXX | XX | XXXXXX | X | X | X | X | X | X | X | X | X | XX |
| NWRM | X | | X | | | X | X | | | | X | X | XX | | X | X | | | | | | X | X | | X | | | |
| ODD1 | | | X | X | | | | | X | X | X | X | X | X | X | X | | | X | X | X | X | X | X | X | X | X | |
| OFUJ | XX | XX | X | X | XX | XXX | | | X | XXXX | X | XX | XXX | XX | XX | | X | X | XXXX | X | X | X | X | X | X | | | XXX |
| OHR | XXXX | XXXXXXXXXXXX | XXXXXXXX | XX | XXXX | XX | XXXX | XXXX | XXXXXXXXXXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | X |
| OLY | | | X | X | | X | | | X | XXXX | X | XX | | | | | XX | X | | | | | | | | | X | |
| ORO | X | | X | XX | | | | | | XXXX | XX | X | X | XX | | XXX | X | | X | X | X | | X | X | X | | | |
| ORV | X | X | X | XX | XXXX | X | X | X | X | X | X | X | XXXX | XXXX | XXXX | XXXX | XX | XX | XX | XX | XX | XX | XX | XX | XX | XX | XX | X |
| ORX | XX | | X | XX | XXX | | X | | | XXXX | XXX | XXX | | | | XXX | X | X | X | X | | X | X | X | X | | | X |
| OUR | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OXX | XX | XXXX | X | X | XX | X | | XX | X | XX | XX | X | X | XX | X | X | XX | XX | X | X | XXXX | XX | X | XXXX | XXXX | | | X |
| PAA | XXXXXXXX | X | X | X | XXXX | X | XX | XX | XX | X | | X | X | X | XX | XX | X | XXXX | XX | X | X | XX | XX | XX | XX | XX | XX | XX |
| PAE | X | X | XX | | | X | | | | | X | | X | | | | | | | | | | | | | | X | |
| PAG | X | XX | XX | X | X | XXX | XXX | XXXXXX | XXX | | X | X | XXXX | XX | XX | XXX | X | | X | X | | X | XX | X | XX | X | X | X |
| PAIG | | | X | XX | | | | | | | | | | X | XX | XX | | XX | X | | XX | X | XX | XX | XXX | | | |
| PAS | X | X | XX | X | XXX | | X | X | | X | X | | | X | | | | | | | | | | | XX | X | X | |
| PAX | XX | | X | X | X | | X | | | X | XX | X | | X | X | X | | X | | | | | | X | X | | | |
| PCC | X | | X | X | XX | X | X | X | X | X | X | XX | XX | XX | | XXX | X | | X | | | X | XX | XX | | | X | X |
| PCH | | XX | X | | X | XX | | | | X | XX | | | | X | XX | XXX | X | X | | X | X | X | XXX | XX | XX | | |
| PCI | XXXX | | | | | | | | | | | | XXXXXXXX | X | XXXXXX | X | | | | X | X | X | XX | XXXXXXXX | | | | |
| PCO | | | | X | | X | X | X | X | X | X | X | | | | | | | | X | | X | | X | | | | |
| PDB | XX | X | X | X | X | | X | | X | X | XX | X | XX | X | XX | X | | | X | | X | | X | | X | | XX | |
| PEC | X | X | XXX | X | X | | X | | X | X | X | X | X | XX | X | X | X | | X | | X | X | X | XXX | X | | | |
| PEL | XXX | XXXXXX | XXXXXX | XX | XX | XX | XX | X | XXXX | XX | X | XX | XXX | XX | XXX | XXXX | X | X | XXX | XXXX | X | XX | XXXX | X | XXXX | X | XXXX | XXXX |
| PGB | X | | X | XX | XXX | X | X | | XX | XXX | X | | X | | XX | X | XXX | | X | | | X | XX | XX | X | XX | | |
| PGC | X | | | XXX | X | X | X | | X | X | XX | X | XX | X | XX | | | | | | | | | | | | X | |
| PGD | | | XX | XXXX | | X | | | | XXX | X | XXX | XXX | XX | XX | X | XXX | XXXXXXXX | | X | X | X | X | | X | | | |
| PGP | | | | | | | | | | | | | | | | | XXX | XX | XXXX | XXXXXX | | | | | XXXXXX | | XX | |
| PHAM | X | X | XX | X | | X | X | | | X | X | | X | XX | | X | XX | X | X | | XXX | | XXX | XXX | X | | X | X |
| PHP | | | X | XXX | | XXX | X | X | XX | X | | XXX | X | X | X | | | XXX | | X | | X | X | X | X | XXXX | | |
| PII | X | | X | XX | XX | | | X | X | X | X | XX | X | X | | XXX | XX | XX | X | | X | | X | | | | | |
| PIP | X | | X | XX | XXXX | XX | | X | X | XXX | XXXXXXXX | X | X | X | X | X | XXX | X | XX | XX | X | XX | XX | X | X | X | X | X |
| PJG | X | | X | XXXXXX | X | XX | X | X | X | XXXXXXXX | X | XX | XX | X | | X | | | | XXX | XX | X | XX | XX | XX | XX | XX | XX |
| PKI | XX | XXXXXXXXXXXXXX | 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 |
| PLD | XX | | | X | | X | X | | | XX | | | | | | | | | | XXXX | | | X | XX | X | XX | | |
| PLDF | XX | | | X | | | | | | | | | | | | | | | | | | | | | | | X | |
| PLG | | | X | X | XX | XX | X | XX | | XXX | | X | X | XX | XXXX | XXX | X | XXXX | | XXXX | X | XX | X | X | XXXX | X | XXX | |
| PLM | XX | X | XX | X | XXX | X | XXX | | XX | X | XXX | XX | XX | X | XXXX | XXXX | XXXX | XXXX | X | X | X | XX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX |
| PLRM | XX | | X | X | XXX | | X | | X | XX | XX | XX | XX | X | X | X | X | | X | | X | X | X | X | XX | X | XX | XX |
| PME | XX | X | X | XXX | | X | | XX | XXX | XX | XX | | X | X | X | X | | X | | X | X | X | X | X | X | X | X | X |
| PMG | XXXXXXXXXXXXXXXXXXXX | XXXXXXXX | X | XXXXXX | X | XXXXXX | X | XXXXXXXXXXXXXXXXXXXX | XX | XXXX | XXXXXXXX | XXXXXXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX |
| PMO | | | X | XX | | X | | | | XX | X | X | X | | XXX | | | | | | | X | X | | X | | | X |
| PMR | XX | X | X | XXXX | XXXX | X | | XX | XXXX | X | XXX | XXXXXX | XX | XXXXXX | XX | XXXX | XX | XXXX | | X | X | X | XXXXXXXXXX | X | X | XXXXXX | XXXXXX | XXXXXX |
| PMS | XX | X | X | X | X | XX | X | | XXX | XXXXXXXXXX | X | X | XX | X | XXXX | X | X | XX | X | XX | | X | X | XX | XX | X | XX | XX |
| PNA | X | X | X | X | X | X | XX | | X | | X | X | XX | | | | | | | X | X | X | X | X | X | X | X | X |
| PNT | XX | XXX | XX | XXXX | X | X | | XXX | X | XXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX | XXXXXXXXXXXXXXXXXXXX |
| POO | XX | X | XXXX | XXXX | XX | X | | XX | XX | XXXXXX | XX | X | XXXX | XX | X | X | XX | XXX | XXXX | XXXX | X | | X | XX | X | X | XXXX | XXXX |
| PPCY | X | | | XX | XX | X | | | | X | | | | | | | | | | | | | | | | | | |
| PPE | | | X | | | | | | X | X | X | X | | | | | | | | | | | | | | | | |
| PPI | X | X | XX | | X | X | | X | X | XX | XX | X | X | XXXX | | X | X | XXX | XXX | XX | X | | | | X | | | |
| PPN | | | X | | X | | | | | X | | | | | | | | | | | | | | | | | | X |
| PPR | X | | X | X | X | | X | | X | XX | XXXXXX | XXX | XX | X | X | XX | | | X | X | XX | X | | XX | XX | | | |
| PPT | | | X | X | | | X | | | X | | | | | | | | | | | | | | | | | | |
| PRAF | X | | | | | | | X | X | X | | | | | | | | | | | | | | | | | | |
| PRI | XX | X | X | XX | XXXX | XX | X | X | | X | | X | XXX | XX | XXXXXX | XX | | X | | XXX | X | | X | XXX | X | X | X | X |
| PRK | | | | X | | XX | X | | | X | XX | | | | | | | | | X | XXX | XX | X | XX | X | XXX | X | X |
| PRM | | | X | X | | | | | | X | X | X | X | | | | | | | | | | | | | | | X |
| PRN | X | X | X | X | X | | X | | | X | XXX | | | | | | | | | | | | | | | | | |
| PRN1 | X | X | | | X | XXX | X | XX | X | X | XXXX | | | X | X | X | XXXX | X | XX | X | | X | X | X | XXX | X | XX | 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 |
|------|------|------|------------|----------|------|------|-----|-----|------------------|--------|--------|------------|------------|--------|------------------|------------|--------------|--------|------------|------------|------------|--------------|--------|------------|--------|--------|--------|--------|
| PRS | XX | X | X | X | XXXX | | XX | X | X | X | | XXX | X | X | X | XXXX | XXXXXX | XX | X | X | | XXX | XX | X | XXX | XXX | X | X |
| PRU | XXX | X | | XXXX | | XX | XX | X | XXXXXXXXXXXXXXXX | XXXX | XX | XX | X | XXXX | XX | XXXX | XX | XXXX | X | XXXXXXXXXX | XXXX | XXXX | | XXXX | XXXX | XXXX | | |
| PRY | X | XX | | XX | XX | X | X | X | XXX | X | XXX | | XXXXXX | X | | XXXX | X | X | XX | X | XX | XX | X | X | XXXX | X | XXXX | |
| PSI | X | XXX | XXXX | X | XXX | XX | XXX | X | X | XXXXXX | XXXX | X | XXXXXXXXXX | XX | XXX | XXXXXXXXXX | XX | XXXX | XXXXXXXXXX | XX | XXXX | | XXXXXX | XXXXXXXXXX | XX | X | XXXX | |
| PSN | X | | | XX | X | | | | X | | | | XX | X | | | | | XX | | | | | X | | X | | |
| PSO | | | | | | | | | X | X | | XX | X | X | X | X | X | | | | X | X | X | | X | X | X | |
| PSZ | XXX | X | XXXXXXXXXX | | | XX | | | X | X | XXX | XXXX | | | | XXXX | X | XXXX | | | XX | | | XX | | | | |
| PTE | XX | X | X | XXX | | X | | XX | XXX | XX | XX | | X | X | | X | X | X | X | X | X | | X | X | X | | XX | |
| PTJ | XXXX | X | X | XXXXXXXX | | XX | XX | X | X | XX | X | XXX | X | XXX | X | XXX | X | X | XXX | XX | XX | XXX | X | X | XX | X | X | XX |
| PTN | | X | | X | | | | | XX | | | X | X | X | | X | | | | | | | X | | X | | | |
| PTO | | | X | XX | | | | | X | | | | X | X | | | | | | | X | X | X | | X | | X | |
| PTT | X | | | | | | | X | X | | XX | XX | | | | | | | | | X | | | XX | X | | | |
| PTZ | X | XXXX | XX | XX | X | XX | X | X | XX | X | XXXX | XX | XX | XX | XX | XX | XX | XX | XX | X | XX | X | XXXX | XXX | X | XXXX | | |
| PUK | | | | | | XXXX | X | X | XX | | XXXXXX | | | | | X | X | X | X | X | X | X | X | | | | | |
| PUYF | X | | | | | | | X | X | X | | | X | | | X | XX | | | | X | X | X | | | | X | |
| PVC | X | XX | | X | XXX | X | X | X | X | XXXX | XX | XX | XX | X | XXXXXXXXXXXXXXXX | | X | X | XX | XX | | XX | XX | XX | XX | X | XX | X |
| PVL | XX | | X | XX | XXX | XX | X | | X | XX | X | | XX | X | | XX | X | XXXX | X | | | | X | XX | X | X | XX | |
| PVY | X | | | | | | | X | | X | X | X | X | | | XX | | XX | | | | | | X | | | | |
| PWA | XX | X | X | XXX | | | | XXX | XX | XXXX | XX | X | X | X | X | X | XX | X | XX | X | | X | | XXX | XX | | X | X |
| PWL | XX | X | X | X | | X | | XX | XXX | X | XX | X | X | X | X | X | X | X | X | | X | | | X | X | | | XX |
| PWLA | | | X | X | X | | X | | XXXX | X | XX | | | | | | | | | | X | | | | | | X | |
| PYM | XX | | X | X | | | | | | X | | | | | | XX | | | X | | | XX | X | X | | X | X | |
| PZZ | XX | X | X | XX | XXX | XXX | | | X | X | XXXX | X | XXXX | | X | XX | XX | X | X | X | X | X | X | X | X | | | |
| OCF | X | | | | | | | X | | X | XXXX | X | XXX | X | | XX | XX | XX | X | X | | X | X | | X | | XX | |
| OCR | | | | X | X | X | X | | | | | | | | X | | | | X | | | X | | | | | | |
| OIS | XXX | X | X | XXXXXX | XX | XXX | X | X | XX | X | XXXX | XXXX | XXXXXX | XX | XXXX | XXXX | XXXXXXXXXXXX | XXXXXX | XXXXXX | XXXXXX | X | XXXXXXXXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX |
| OIZ | | | X | X | X | XX | X | | | XXXX | XX | XXXX | X | | | XX | XXX | XXX | X | X | X | X | XX | X | XX | X | XX | X |
| OPS | | | | XX | X | X | | | | | | | | | | | | | X | | | | | | | | | |
| QUE | XX | | | XXXX | | XX | | X | X | XXXXXX | XX | XXXXXXXXXX | X | | XXXX | X | XXXXXXXXXX | X | XXXXXX | X | XXXXXX | X | XXXXXX | X | XXXXXX | XX | XX | XX |
| OZH | X | X | | XX | X | XX | | | X | XXXX | X | XXXXXX | | | | XX | | XXX | | | X | X | X | X | X | | XX | XXXX |
| RAB | X | X | | XXX | X | X | XX | X | XXXX | X | XXXXXX | XX | XX | XX | XX | X | X | XX | X | XXX | XXX | | X | X | XXX | XX | XX | XX |
| RAGM | XX | | X | X | X | | X | XX | X | X | XX | X | X | X | X | X | | X | | | X | | X | | XX | | | |
| RBL | | | X | XX | XXXX | | | X | X | XX | XXX | XXX | XXX | XX | | XXX | XXXXXXXXXX | X | XX | XXX | X | XX | XXX | X | XX | X | X | |
| RDJ | | | | | | XX | | | | | | | | | X | X | | | | | | | | | | | X | |
| RDO | | | X | | | | | X | XXX | | | | X | XXX | XXX | | XXXX | XXXX | XXXX | X | XX | X | | X | XX | XX | X | XXX |
| RDP | | X | X | XX | | X | | | X | X | XX | X | X | X | X | XXX | X | XX | X | X | XX | X | X | X | X | X | X | |
| RDT | XX | | X | X | X | | X | XX | XXX | X | XX | X | X | X | X | X | X | X | X | X | X | X | X | X | XX | | X | XX |
| RED | | | X | X | X | | X | X | XX | XX | X | X | X | XX | X | | X | | | X | X | X | | X | X | | | X |
| REY | | | XX | X | | | | | | | | | | | | | | | | | | X | | | | | | |
| RFI | | | | XX | | | | | | | | | X | | | XX | | | X | | | X | X | X | | | | |
| RGS | X | X | XX | | | X | | | X | X | | | | X | XX | | | | | | X | X | X | | XX | | X | X |
| RIV | | | | | | | | | X | | | | | X | | | | | X | | X | X | X | XX | | | | |
| RJF | XX | X | X | XX | XXXX | X | | X | X | XX | XXXXXX | XXXX | XXX | X | XX | X | X | XXX | XX | | XX | XX | X | XXXX | | | X | |
| RKG | | | | X | XX | | X | X | | | XXXX | X | X | XXXX | X | X | XXXX | XX | XXX | X | | X | X | | | | | |
| RKT | | | X | XX | | | | | | | | | | X | | | | | | | | | | | | | X | |
| RLO | XX | | | XXXXXX | X | X | X | X | XXX | XXX | XX | | | XX | XXXX | XXXX | X | XX | XX | X | XXX | X | XXX | X | XXX | | | |
| RMP | X | | X | | X | | | | X | X | X | | | XX | | | X | XX | X | XX | X | XX | X | | | | | |
| RMO | X | | XX | XXXXXX | X | X | X | XX | XXXXXXXXXX | XXXX | XXXX | XXXXXX | XXXXXX | XXXXXX | XXXXXX | | | | | XX | XXXXXXXXXX | XX | XXX | XX | XX | XX | XX | |
| RMW | X | | | XXXX | XX | X | | | | XX | | | X | XX | X | XXX | | | | X | X | X | X | XXX | X | X | X | |
| ROB | XX | X | X | XX | XXXX | X | X | X | X | XXXX | XXXX | X | | | X | XXX | XX | X | X | X | X | X | X | | | | | |
| ROCH | | X | X | X | X | X | | X | | X | XX | | | | X | XXX | X | X | X | X | X | X | X | X | | | | |
| RPW | | | | | | XX | | | | | | | | XX | | | X | | | | X | | | | | | X | |
| RRL | XX | | X | XX | XXXX | XXX | X | | X | X | XXXX | XXX | XXX | | X | XXX | XX | X | X | X | X | X | X | X | | | | |
| RSCP | | | X | X | X | | | | X | X | X | X | X | | | XX | | | | | X | X | | | | | | |
| RSM | | | | X | XXX | | | | | | X | X | X | X | | X | XX | X | XXXXXX | | X | X | XX | | X | | X | |
| RSNY | | X | X | XXX | | X | | X | XX | X | X | X | X | | | XX | X | | | | | X | X | | | | X | |
| RSON | | | | | | XX | | X | XXXX | XXX | XXXXXX | XX | | | | | | | | | X | X | X | XX | X | | XX | XXX |
| RSP | XX | | X | XX | XXX | XXX | | X | X | XXXX | XXX | XXX | | | XXX | XX | X | X | X | X | X | X | X | X | | | | |
| RTCB | X | XX | X | X | X | XXX | XX | X | XX | XXX | X | X | XX | XX | X | | X | XX | XX | XX | XX | XX | X | XX | X | XX | XXX | |
| RTCV | X | XX | X | X | X | XXX | XX | X | XX | XXX | X | | | X | XX | X | X | X | X | X | XX | XX | | XX | X | XXX | XX | |
| RTLL | X | XX | X | X | X | XXX | XX | X | XX | XXX | X | X | | X | XX | XX | | X | XX | XX | XX | X | | XX | X | XXX | XX | XXX |
| RTRS | X | XX | X | X | X | XXX | XX | X | XX | XXX | X | X | XX | X | X | XX | XX | XX | XX | XX | XX | X | | XX | X | XXX | XX | XXX |
| RUV | X | | X | X | XX | | | | XX | | | X | X | X | | XXX | X | | | XX | | X | X | | | | X | |
| RVR | X | X | X | XX | XXX | | X | | XX | X | XXX | XX | X | | XXXX | | X | | | X | XX | XX | XX | XXX | XXX | | X | |
| RYD | | | X | X | X | | | X | | XX | X | X | X | | XXX | XX | | | | X | | | X | | | | XX | |
| RZN | X | | X | XX | XXXX | XX | X | X | XX | XX | X | X | X | | XX | X | XXXX | | | X | | | X | XX | XX | X | XXX | |
| SAL | | | X | XXX | | | | | XX | X | X | X | X | | XX | | | | | X | X | X | | | | | | |
| SALJ | | | | | | X | | | | | X | XX | | | | | | | | X | XX | X | | X | X | | XX | |
| SAN | | X | XX | XXXX | XX | X | | X | XXXX | X | XX | X | XX | XXX | XX | X | XX | X | X | X | X | X | | X | X | XX | XXXX | |

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|------|--------|--------------|----------------|----------|----------|------------|----------|----------|------------|--------------|--------------|------------------|--------------|--------------|--------------|--------------|----------------|--------------|--------------|--------------|------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------|
| SEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SES | XXXXXX | | X | XXXX | X | | X | X | X | | X | XXXXXX | XXXXXXXXXX | XX | | X | XXXXX | X | XXXX | | X | X | | X | XXXX | X | XXXX | XXXX | |
| SEW | XX | X | X | XXX | | X | | XX | XXX | X | XX | X | X | X | XX | | X | X | | X | X | | X | X | X | X | X | XX | |
| SFG | | | X | | X | X | | X | | | | | X | XX | | X | | | | | | | | X | XX | | X | X | |
| SFI | X | | X | XXX | | | | | | XX | X | XX | X | X | | X | X | X | XX | X | | X | X | | X | X | | X | |
| SGAM | XX | | X | X | X | X | | X | | XX | XXX | X | XX | | X | X | X | X | | X | X | | X | | X | X | X | X | |
| SGE | | | | | | | | | | | | | | | | | | | | | | | | XXXX | X | XX | X | X | |
| SHGH | | | XX | XXX | X | | | XX | X | X | | X | X | XX | | | | X | | X | X | | | | X | | | X | |
| SHK | | X | X | | X | X | XX | | | XX | | XX | XX | | | | X | XX | X | | X | | X | | XX | X | | X | |
| SHL | XXXX | | | | | XXXXXXXXXX | | | | | | XXXXXXXXXXXXXXXX | | | | X | X | X | | | | X | XX | X | XXXXXXXXXX | XX | XXXX | XXXX | |
| SHNJ | X | X | | | X | XX | | | X | | XX | | X | XX | X | | | XX | X | | X | | X | X | | X | X | | |
| SHW | XX | | | | X | X | X | | | | | X | X | X | X | | XX | | | X | X | | X | X | | | | X | |
| SIO | XX | | | XXXX | X | X | | X | X | XXX | X | XXXXXXXX | | X | XXX | XX | | XXXX | X | | XX | X | X | X | X | X | XX | | |
| SIT | | | X | X | | | | | | X | | X | | X | X | XX | XXXX | | X | | | X | | XXX | | | | | |
| SJG | | | X | | X | X | XX | | | | X | X | XX | X | | | | | | X | | | | X | | X | | X | |
| SJS | | | | X | XX | X | XXX | | | X | | X | | | XX | | | X | | X | X | XX | | | | X | XX | X | |
| SKDB | | | X | XX | X | X | X | | | X | | XXX | X | | | | | | | | | | X | | | XX | X | X | |
| SKI | | X | X | XX | X | X | X | | | X | X | XXXX | X | | | | | | | X | X | | X | | | XX | X | X | |
| SKO | XXX | X | XXXXXXXXXXXXXX | | XXX | XXX | XX | XXXXXXXX | X | X | XXXXXXXXXX | X | XX | XXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXX | XXXXXXXXXX | XXXXXXXXXX | XXXXXXXXXX | XXXXXXXXXX | XXXXXXXXXX | XXXXXXXXXX | XXXXXXXXXX | XXXXXXXXXX | XXXXXXXXXX | XXXXXXXXXX | |
| SLKM | XX | | X | X | X | X | X | | X | XX | XXX | XX | XX | X | X | XX | X | X | X | X | X | X | X | X | X | X | X | XX | |
| SLL | | | | | | | | | X | XXXX | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | XX | |
| SLR | XXXXX | X | X | | X | XX | | XXX | X | XX | XX | XX | X | | XXXXXXXXXX | XXX | XXXXXXXXXXXXXX | XX | XX | X | XXXXXXXXXXXXXXXXXXXXXX | X | X | XXXXXXXX | | X | XXXXXX | | |
| SLY | | | | XX | X | | XX | X | X | XX | | XX | | XXX | XXX | X | XX | | XX | X | | X | X | X | XX | X | | XXXXXX | |
| SMF | XX | X | XX | XX | XXXX | X | | X | XX | X | XX | XXXXXXXX | X | XXX | XXXXX | X | XXXX | X | XXXX | X | X | X | XX | XX | XX | XX | X | X | |
| SML | XX | | X | X | XXX | | X | | XX | XXX | XX | XX | X | X | XX | X | XXX | X | X | | X | X | X | X | X | X | X | XX | |
| SMY | XX | | | | | | | | | | | | | | | | XX | | X | | X | | X | X | X | X | X | | |
| SNF | XX | X | XXXXXXXXXX | | XX | X | | X | XXXXXXXX | XXX | X | XXX | | | XXXX | X | XX | X | XX | XXX | X | X | X | XX | X | XXX | X | XX | |
| SNG | X | | X | X | XX | X | X | X | XX | XXXXXXXX | XX | X | X | X | X | XXXX | | XXX | X | XXX | X | XXX | X | XXX | XXXX | X | XX | XX | |
| SNY | X | | XX | XXXX | | XXX | XX | | X | XX | XXXX | X | XX | XXXXXX | X | X | XX | X | XX | XXX | | X | X | X | XX | XX | X | XXXX | |
| SOD | X | | XX | XXXX | | XX | X | X | XXXXXXXX | XXXXXXXXXXXX | XXX | XXXX | XXXXXXXXXX | XXXX | XXXX | XXXXXXXXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XX | |
| SOH | | | X | XX | | X | | | | | | | | | | XX | XXXX | X | X | XX | XX | X | XXXX | XX | X | X | XXX | | |
| SOI | | | | | | | | | X | XXX | XX | X | X | XX | | XX | X | X | X | X | X | X | X | X | X | X | X | XX | |
| SOP | | | X | XXX | | | | X | XXX | X | X | X | X | | XX | | X | X | | XX | X | X | X | X | X | X | X | | |
| SPA | X | X | XX | XX | X | XX | X | XX | X | XX | X | XX | X | XX | X | XXXX | XXX | XXX | X | XXXX | XX | X | XX | XX | XX | XX | XX | XX | |
| SPC | XXX | X | XXXXXXXXXXXX | | X | XX | X | X | XX | XXX | X | XX | XXXXXX | XXXX | XXXX | X | XXXX | X | XXXX | XXXX | XX | | XX | XX | X | XX | XX | XX | |
| SPU | XX | | X | X | XXX | | X | | XX | XXX | XX | XX | X | X | XX | X | X | X | X | X | X | X | X | X | XX | X | XX | XX | |
| SRA | | | | | | | | | | | | | | | | | XX | | X | X | XX | | | | X | XX | X | | |
| SRO | XX | | X | XX | XXXX | | X | X | XX | X | XX | XXXX | XXX | XXXXXX | X | XXX | | X | XX | X | XX | XX | XX | XXXX | XX | X | XXX | XXX | |
| SRS | | | X | XX | | X | | | | | | | | | X | X | XXXX | X | XXXX | X | XXX | | X | XXX | XX | X | XX | XXX | |
| SSE | X | X | X | XXX | XXXX | | XXXX | | X | XX | XXXX | X | XXX | XXXXXXXX | X | XXXX | | XXXXXX | X | X | X | X | XXXX | XX | XX | X | XXXX | XXXX | |
| SSF | XX | XX | XX | XXXXXXXX | X | X | XX | X | XX | X | XX | XXXXXXXX | XXXXXX | X | XXXXXX | XX | XXX | X | X | X | XX | XX | XXXX | XX | X | X | XX | XX | |
| SSO | | | | | | | | | | | | | | | | | XX | XX | | | | X | X | X | | | | | |
| SSR | X | X | | | XXXX | | XX | | | | X | XXX | X | | XXXX | | XX | | | | | X | X | | | | XX | | |
| STJ | | | X | X | | | | | X | XX | X | XX | X | | X | X | X | X | | X | | X | X | | | | X | | |
| STK | XX | X | X | X | XXXX | X | XX | X | X | XXXXXXXXXXXX | XXXXXXXXXXXX | X | XX | X | XX | XXX | | X | XXXX | X | XXXXXX | X | XX | XXXX | X | XX | XXXX | XXXX | |
| STS | | | X | X | X | | | | X | X | XX | X | X | | | | | | X | | X | | | | | | | | |
| STV | XX | X | X | XX | XXX | XXX | | | | XXXX | XXXXXXXX | | X | XX | XX | X | X | X | X | X | X | X | X | X | X | X | X | XX | |
| SUE | XX | X | X | | | | | | X | X | | X | X | X | X | | | | | X | X | X | X | X | X | X | X | XXXX | |
| SUF | XX | X | X | XXXXXXXX | | XXXX | XXXX | X | XXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | |
| SUR | | | | | | | X | XX | X | | | | | | | | | XX | | X | X | XX | | | | | | | |
| SVB | | | | X | X | X | X | | | | XX | | XXX | | | | | | | X | X | X | X | X | XX | X | X | XX | |
| SVV | | | | X | X | X | XX | | X | | XX | | | | | | | | | XX | X | X | X | XX | X | X | X | XX | |
| SVW | XX | X | X | XX | XXXX | | XX | XX | XX | XXX | XXXX | X | X | XXXX | X | XX | XX | X | XX | X | X | X | XX | XX | XX | XX | X | XXXX | |
| SWZ | | | | | | | | | | | | | | | | | | | XXXX | XX | X | | XX | | | | | | |
| SYO | X | | | | | | XX | X | XX | X | X | | | | | | | | | | | | | | | | | | |
| SYP | X | X | XXXX | X | | | X | | | | | | | XX | | XXX | | X | | | X | X | XX | | XXX | X | X | X | |
| TAB | X | X | X | X | X | XXX | X | XX | XX | | XX | X | XXXX | X | XX | X | XX | X | XX | X | XX | X | X | XXXX | X | XX | X | XX | |
| TACH | X | XXXX | XXX | XX | | XX | X | X | X | XXXX | X | X | XX | X | XX | X | XX | XXX | X | XX | XX | X | XX | XXXX | XXXX | XXXX | XXXX | XX | |
| TAF | | | X | XX | | | X | X | | X | X | | X | | XX | | | | | | | | | X | X | | X | | |
| TAU | X | | X | XXX | | | X | XX | | XXX | | X | X | XX | XX | XXXX | | | | XX | X | X | | X | XXXX | XX | X | XX | |
| TAVF | X | | | | | | | X | X | X | | | | X | | X | XX | | | X | X | X | X | | | | X | X | |
| TBH | | X | | X | X | X | X | | | | | X | XX | XX | | X | | | | XX | | | | X | | | X | | |
| TBI | | | X | X | | | X | | | | | X | X | X | | X | X | | | | X | | | X | | | X | | |
| TBR | | | | | | | | | | | | X | X | X | | X | | | | | X | X | | X | | X | X | | |
| TCE | X | | XXXX | X | X | | X | | | XX | X | XX | XX | | X | XX | X | X | X | XXX | X | X | X | X | X | X | X | XX | |
| TCF | XX | X | XX | XX | XXXX | X | | X | X | XX | XX | XXXX | XXXX | X | XXX | X | XXXX | X | XX | XX | X | XX | XX | XX | XXXX | X | X | X | |
| TDS | | | | | | | | | | X | XX | XXX | X | X | X | | XXX | X | X | X | X | X | X | X | X | X | X | X | |
| TEH | XX | | X | XX | | XXX | X | | X | X | X | | | | XXX | | X | | XX | | XX | | X | | | | X | | |
| THE | | | | | | X | | | | | | | | | | XX | | X | XXX | X | X | XX | | X | X | X | XXX | | |
| TIA | X | | XX | X | XX | | XXX | X | | X | XXXX | X | XX | XXXXXXXX | XX | X | XX | XXXXXXXX | X | | X | X | | XXX | XXX | X | XX | X | XXXX |
| TIC | XX | X | X | XX | XXXXXXXX | | XXX | X | XX | XX | X | XXX | X | XXXX | XX | X | X | XXXX | X | X | XX | X | XX | XXXX | XXXX | XXXX | XXXX | XX | |
| TIO | XX | XXX | X | XX | XXXX | X | X | XXXX | XX | XX | X | X | X | XXXX | XXXXXXXXXXXX | XXXX | | | | | | | | | | | | | |
| TIR | X | XXXXXXXXXXXX | XXX | | XX | XXX | XX | X | XX | XXXX | XXXXXX | XXXX | X | XX | | XX | | | | X | | X | X | X | XXXX | XXXX | XXXX | XXXX | |
| TIY | X | X | X | XX | XXXX | | XXXXXXXX | X | XX | XXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | |
| TKL | | | | X | | X | | | | | | XXXX | X | X | XX | | XX | | | | | X | X | X | X | X | X | X | |
| TKSJ | X | X | | X | XX | X | | | | | XXX | X | X | X | X | | X | | XX | XX | X | X | X | X | XX | XX | X | X | |
| TLB | | | | | | | | X | X | X | XX | X | X | XXX | X | XXXX | X | X | | XX | | X | XXXX | XXXX | XX | XX | X | XX | |
| TLE | | | | | | | | | | | | XXX | XX | XX | | XXXX | XX | XX | | | | | | | | | | | |
| TNP | XX | X | XXXX | XXXX | | X | XXX | X | X | X | XXXX | XXX | XXX | XX | X | X | XXXX | XX | X | | X | X | X | XX | XXXXXXXX | XXX | XX | XX | |
| TNS | X | | X | XXX | XXX | | X | X | X | | X | XX | XX | 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 | | | | |
|------|--|------|------------|------------|------|------|-----|------|------------|------------|--------------|--------------|--------------|------------|------|----------|--------------|----------|--------|----------|------|------|------|------|--------|--------------------|------|------|------|------|----|--|
| TOA | XX | X | X | XX | X | XX | | X | X | XXX | XXXXXXXXXX | XXX | X | XX | XX | X | XXXXXX | XX | XXXX | | X | X | XX | XXX | XXX | XX | | X | X | | | |
| TOL | XX | | | XX | XX | X | | X | | X | X | | XXX | XX | XX | X | XXX | X | X | X | X | X | XX | X | X | X | | | XX | X | | |
| TOO | | | X | XX | XXX | | | X | | X | X | XXX | X | X | XXXX | X | X | X | X | XX | | X | X | X | X | XX | X | | XXXX | | | |
| TOUF | X | X | X | X | XXX | | | X | X | X | XX | X | X | | | | X | XX | XX | X | X | X | X | X | X | X | | X | XX | | | |
| TOV | | | | | X | | | X | | X | X | | | X | | | X | | | | | | X | X | XX | | X | X | | | | |
| TPC | X | | X | XX | XXXX | | | X | X | | X | X | XXX | XX | X | | XXXX | X | XX | X | | X | X | XX | XXX | XX | XXX | | X | | | |
| TPE | | X | X | XXX | | | X | XX | | | XX | X | | X | X | | XX | | X | X | X | | XX | X | X | X | XX | | | | | |
| TPP | X | | | XX | X | X | X | X | X | | XXX | | XXXX | XX | | | X | | XX | X | X | | XXXX | X | X | X | X | X | | XX | | |
| TPT | X | | X | X | XX | | | X | | | XX | | X | X | X | | XXX | X | | XX | | | X | X | | X | | X | | X | | |
| TPX | | X | XX | X | X | X | | X | | | | X | X | X | X | | X | | | X | | | X | XX | XX | | X | X | | X | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TREF | X | | | | | | | X | X | X | | | | X | | | X | XX | | | X | X | X | X | | | | | X | X | | |
| TRI | | | X | X | XX | | | XX | | | XX | XX | X | X | X | | XXXX | XXXXXXXX | X | XXX | XX | XX | XX | XX | XXX | X | XX | XX | XX | XX | | |
| TRN | X | | | XXXX | X | X | X | X | X | | XXX | | XXXX | XX | | X | XX | | X | X | X | X | XXXX | X | X | X | X | X | X | XX | | |
| TRO | | | X | | | | | | X | | | | | X | X | X | X | X | | | X | X | | X | X | X | X | X | X | XX | | |
| TRT | | X | | X | X | XX | | X | XX | XX | X | XX | XXX | X | X | XX | XX | XXXX | XX | X | X | XX | XXXX | | X | X | XX | XX | XXXX | | | |
| TSM | | | | | | XX | | | | X | XXX | X | | XXXXXXXX | XX | | X | XX | X | X | X | | | X | XXX | XX | XXXX | XXXX | XXXX | X | | |
| TSRJ | X | X | | | XXXX | | | | | | XXX | X | | XXX | X | | | | X | X | X | X | | | X | | | | XXXX | XXXX | | |
| TTA | XX | X | X | XX | X | X | | XXXX | | XX | XX | XXXXXX | XXX | XXXX | XX | XX | XXXXXX | XX | XXXX | XX | | X | X | X | X | X | XXX | X | X | XXX | XX | |
| TTG | X | X | | | XX | | X | X | X | | XX | X | X | XX | X | | XX | | XX | | | | X | | X | X | | X | X | | | |
| TUH | | | | | XXXX | | | X | | | XX | X | XX | XX | X | XX | | XX | X | X | XX | | | | | | | X | X | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TUL | XX | XX | X | XXXXXXXXXX | | | XX | X | | X | XXXX | X | XXXXXXXX | | | X | XXXXXXXXXXXX | XX | XXXX | X | | XX | X | X | XXX | XX | XXX | | | | | |
| TVO | X | X | | X | XX | | | X | | | X | | X | | | | XXX | | X | | | X | X | | X | X | | | | X | | |
| TWC | | | X | X | XX | | | X | | X | | | | X | | | | | | | X | X | | X | X | XX | | X | X | | | |
| TWD | X | | X | X | XX | | | X | | X | | | | X | | | | | | | X | | | X | X | XX | | XX | | X | | |
| TWF1 | X | | | X | XX | | | | | X | | | | | | | | | | | | | | | X | X | | | | | | |
| TWG | X | | | X | XX | | | | | X | | | | | | | | | | | | | | X | X | X | | X | | | | |
| TWK | X | | | | X | | | | | | | | | | | | | | | | | | | X | X | X | XX | | X | | | |
| TZZ | X | X | | | XXXX | | X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | |
| UCC | X | | X | X | X | | | X | | | | X | XX | | | | XXX | | X | X | | | X | | X | X | | X | X | | | |
| ULC | | | | | X | | | X | X | | X | X | X | X | | | XX | | | X | | | X | | X | X | | X | X | | | |
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| UNM | | | | | X | | | | | X | | | | X | | | X | | X | | | | | X | | X | X | | X | | | |
| UPA | | | X | X | X | X | X | XX | X | | | | | X | X | X | X | XXX | X | | XXX | X | X | XXXX | XX | | X | X | X | XXXX | | |
| UPP | | | | XX | X | XX | | X | | X | X | XXX | XX | X | XX | XX | | X | X | X | | X | X | XXXX | XX | | X | XX | | | | |
| USI | | X | X | | XXX | X | | X | X | | X | | X | | | | XX | | X | X | | | X | | | | | | | | | |
| VAH | X | | X | X | XX | | | X | | | XX | | X | X | X | | XXX | | XX | | | X | X | | X | | | | | | | |
| VAI | X | | X | XX | XXXX | | | | | | XXX | XX | XX | XX | X | XX | | XXX | | XX | XXX | | X | X | X | XX | X | | | | | |
| VAL | | | | X | | | | | | | X | | | X | X | | X | | X | | | X | | | | X | | X | | | | |
| VAM | | X | | | XXX | | XX | XX | X | | XX | X | | X | X | X | XXX | X | | X | X | | XX | X | XX | X | X | X | XXXX | | | |
| VAO | X | X | | X | | | | | | | XX | X | | X | XXX | | XX | X | | XXXXXXXX | | XX | XX | XXX | X | XX | XXX | X | XXXX | | | |
| VAY | XXX | | XXXXXXXXXX | | XXXX | | XX | XX | XXXXXXXXXX | | XXXXXXXXXXXX | | XXXXXXXXXXXX | X | XX | | XX | XX | XX | XXXXXX | | X | XX | XX | XXX | XXXXXXXXXXXXXXXXXX | XXXX | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VBY | X | X | | X | XX | XXX | | XX | | | X | XX | X | XXX | XXX | | XXX | | XXXXXX | X | | XXX | XXX | XX | X | XXXX | XX | | XXX | | | |
| VGB | X | | | | X | | X | X | | | XX | | X | | X | | XX | X | | | | X | X | | | | | | | | | |
| VILF | X | | | | | | | X | X | X | | | | X | | | X | XX | | | X | | X | X | | | | | | X | | |
| VITF | X | | X | | XXX | | | X | X | | | X | XX | | X | X | | XX | | | X | | X | X | X | | X | | | | | |
| VKA | X | | X | | XXX | XXXX | | X | | X | XXXX | X | X | X | X | | XXXX | | X | XX | X | | X | XXXX | X | X | X | XX | X | | | |
| VLO | | | X | XXX | XX | | | | | | X | | X | | | | XX | | XXX | | | | | | X | X | XX | | | | | |
| VLS | | | X | X | | | XX | XX | X | | X | | | X | X | X | X | XXX | X | XXX | | X | XX | XX | X | X | X | | X | | | |
| VLZ | XX | | X | X | X | X | | X | | XX | XX | X | XX | | X | X | X | XX | | X | X | | | X | X | X | XX | X | | X | | |
| VOY | XXXX | X | XXXX | XXXX | | | X | XXX | X | | X | XX | XX | XXX | XXX | XXX | | XXXX | | XXXXXXXX | X | XXX | XXX | XX | X | XXX | X | | XXX | | | |
| VRI | XX | XX | XXXXXXXX | X | | | XX | XXX | X | XXXXXXXXXX | XX | XXXX | XXXXXX | XX | XX | | XXXX | XXXX | XXXXXX | X | XXX | | XXXX | XXXX | XXXXXX | XXXX | XXXX | | XXXX | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VSG | X | XX | | X | X | XXXX | | X | XX | XXXX | | XX | X | | XXX | | XXXX | X | XXXX | XXXX | | XXXX | XXXX | | XXXX | XXXX | | XX | XX | X | XX | |
| VTS | XX | | X | XX | XXXX | | X | X | | X | XXX | XXX | | X | | XX | X | | | | | X | | | | X | XX | XX | X | XXX | X | |
| VUN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VVO | | | | | | | X | X | | X | X | XXX | | X | XXXX | | | X | X | | XXXX | X | | | XXXX | X | XX | X | X | | X | |
| VZW | XX | | X | X | X | X | | X | | XX | XXX | X | XX | | X | X | XXX | X | X | X | X | X | | X | X | X | XX | | X | | | |
| WARB | XX | XXXX | XXXX | XXXX | XXX | XXX | X | X | XX | XX | XXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXXXX | XXXXXXXXXX | XX | XXXXXXXX | | XXXX | XXXX | XXXXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | XXXX | | |
| WB2 | XX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

[illegible]

The following stations each reported less than 10 readings:

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|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|
| AAE | ABHA | ACR | ACU | ADH | ADI | AGAL | AGM | AHU | AJI | ALJ | AMR | ANCC | ANMO | ANTO | APM | APO | APR |
| APW | ARG | ARO | ASR | ASW | ATA | ATZ | AUE | AUH | AUI | BAD | BALA | BCPM | BENE | BER | BERF | BFT | BGB |
| BLB | BKA | BKB2 | BKC | BLF | BLH | BLN | BLS3 | BLT | BMG | BMNTN | BNS | BOO | BOT | BPA | BRAS | BRWV | B80 |
| BSS | BTB | BTG | BUC1 | BUS | BUT | BVA | BVW | CAO | CBB | CBI | CCMT | CCU | CDFW | CDG | CDH1 | CEI | CEOS |
| CFTV | CGL | CHO | CIS | CLE | CLK | CLMC | CMW | CNIL | CNK | COL | COP | CPE | CPW | CPX | CRF | CRM | CSZ |
| CTAO | CTCR | CTFE | CTS | CUM | CVD | CVT | CWZ | CZM | DAF | DBN | DDM | DGBT | DHR | DHW2 | DIAC | DIX | DLB |
| DLM | DMMT | DOR | DPMT | DRE | DSC | DSVT | EAB | EALH | EAU | EBG | EBH | EBL | EBN | EBR | ECB | ECP | ECR1 |
| EDB | EDI | EDU | EMEL | EMK | EMM | EMS | EPA | EPH | ERL | ERK | ESD | ESK | ESY | ETA | ETB | ETER | ETP |
| EVA | EZAM | FCV | FG2 | FG3 | FISA | FKS | FL2 | FLAG | FMT | FMW | FSA | FUG | FUN | FYU | GAR | GBL | GBN |
| GCG | GCM | GGC | GHW | GIF | GL2 | GLH | GLK | GLM | GLR | GMB | GMN | GMR | GMTN | GRA2 | GRB1 | GRB2 | GRB3 |
| GRB5 | GRFO | GRI | GROR | GSM | GSO | GT2 | GTO | GUAC | GULW | GVN | GWY | HAC | HAY | HBF | HCR | HDA | HOW |
| HIA | HIK | HIR | HJJ | HKL | HLD | HMM | HMT | HNB | HNME | HOBC | HOF | HOGG | HOJ | HOO | HOOC | HOR | HON |
| HRY | HSR | HTQ | HTW | HWK | HYF | IAS | IDC | IKP | IMW | INY | ISI | ISN | ITG | ITR | IYA | IXG | JAQ |
| JAT | JBO | JCM | JCW | JHN | JKL | JON | JTS | JUD | KAN | KBS | KKG | KLH | KLM | KLN | KMG | KMOR | KOC |
| KOSW | KUG | KUS | KYO | LAC | LCCM | LCH | LCNE | LGAR | LHG | LIJA | LIS | LLAV | LLS | LMN | LMW | LNOR | LOF |
| LOM | LOP | LPI | LPO | LVVM | LVY | MAE | MAJO | MBW | MCA | MCO | MCT | MDN | MDW | MEMT | MEW | MGM | MIT |
| MIY | MKL | MKT | MLK | MMG | MMK | MML | MMN | MNB | MNQ | MOL | MOM1 | MOO | MORO | MPR1 | MRK | MRL | MS1 |
| MT1 | MTMW | MTY | MXC | MYT | MZP | MZX | NA2 | NAC | NAG | NAR | NAV | NBO | NC2 | NEM | NGS | NLO | NLW |
| NPN | NSS | OBG | OBH | OBI | OBO | OC2 | OCO | ODS | OFU | OGA | OHW | OJEN | OLLA | ONA | ONR | OWO | OPA |
| OPT | OSA | OSD | OSH | OSS | OTH | OWA | OZB | PANV | PBC | PCA | PCG | PFH | PGO | PGW | PHC | PIG | PKEM |
| PLAT | PLE | PNJ | PNL | POA2 | POF | PPK | POB | PR1N | PRJ | PRW | PTCR | PTS | PURC | PZ1 | QASM | QCS | QSM |
| QUTJ | RAO | RAR | RBA | RDS | REC | REFV | RIN3 | RMN | RRO | RSW | RVC | RVW | RW1 | RW4 | SALC | SAP | SAV |
| SAW | SAX | SBG | SBO | SCE | SCI | SCN | SCV | SDH | SDV | SEN | SFF | SGH | SGO | SGS | SGV | SHBJ | SHR |
| SHRG | SLB | SLE | SLP | SLW | SMMW | SMW | SNB | SNK | SNZO | SOG | SOG2 | SONG | SOSW | SPRG | SPW | SRFA | SRG |
| SRN | SSP | SSV | STD | STR | STW | SUM | SVA | SVP | SVT | SXM | SZH | TAC | TAT | TBM | TBT | TBY | TCK |
| TDD | TDH | TDL | TER | TIG | TIH | TIM | TL1 | TMA | TMBR | TMO | TMR | TOK | TOTJ | TP1 | TPU | TRQ | TRR |
| TSAL | TSI | TSU | TWM1 | TWO | TWM | TWZ | UAV | ULM | ULW | UTA | UTS | UWA | UZD | VACR | VBA | VBEM | VDB |
| VFP | VGZ | VLA | VLL | VLMM | VPS2 | VTG | VTHM | VVI | WA4 | WAH2 | WAJH | WAR | WAX | WG2 | WHC | WHNE | W1W |
| WKA | WKY | WMZ | WPB | WPS | WRD | WRH | WRN | WTV | YAH | YAKW | YAM | YEL | YER | YKU | YMT1 | YMT2 | YMT4 |