

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

EARTHQUAKE DATA REPORT
AUGUST 1990

by

U.S. Geological Survey
NATIONAL EARTHQUAKE INFORMATION CENTER¹

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The following description is for New Publications of the U.S. Geological Survey:

Earthquake Data Report for August, 19⁹⁰ -

The Earthquake Data Report (EDR) is a bulletin produced by the National Earthquake Information Center (NEIC) 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 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.

The EDR data are written on 1.2 megabyte, high density, 5 1/4 inch diskettes and 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 AATPAGE_n.DAT, and a data file, OFEDR_{mmn}.DAT, where _n is the disk number and _{mm} is a two-character code for the month (JA, FE, MR, etc.).

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

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

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

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

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

Two types of magnitude are computed: body-wave magnitude (m_b) and surface-wave magnitude (M_{SZ}). Each is a 25% trimmed mean of individual station values. Station magnitudes not used in the trimmed mean are marked with an X. This includes station magnitudes of either type which deviate significantly from the mean and surface-wave magnitudes determined from horizontal amplitudes. Body-wave magnitudes are computed according to the formula $\log(A/T) + Q$, derived by Gutenberg and Richter (1956), where A is the P-wave amplitude in micrometers, T is the period in seconds, and Q is the depth-distance factor. Surface-wave magnitudes are computed from the formula $\log(A/T) + 1.66 \log(\Delta) + 3.3$, where A is the maximum vertical surface-wave amplitude in micrometers, T is the period in seconds, and Δ is the epicentral distance in degrees. Surface-wave magnitudes are determined only for earthquakes whose focal depths (taking into account the computed standard deviations) are potentially less than 50 km, for stations having $20^\circ \leq \Delta \leq 160^\circ$, and for reported periods of $18 \leq T \leq 22$ s. No correction for focal depth is used in the M_S calculation. Body-wave magnitudes are not determined from PKP arrivals or for stations having $\Delta \leq 5^\circ$. Amplitude values stated in this report are in nanometers (nm) for body-waves and micrometers (μm) for surface-waves.

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

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

Hypocenter Symbols

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

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

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

References

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

? AUG 01, 1990 00h 39m 45.16 ± 1.45s
46.252 N ± 33.5km 2.700 E ± 10.6km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.4 (LDG).

MAF 0.10 252 Pg 39 47.80 -0.1
Sg 39 51.60
TCF 0.34 276 Pg 39 52.10 -0.1
Sg 39 58.70
LSF 0.81 270 Pg 40 01.10 0.2
Sg 40 11.80
SMF 0.88 63 Pg 40 02.10 0.0
Sg 40 14.20
S.D. = 0.2 on 4 of 4 obs.

% AUG 01, 1990 01h 21m 53.77 ± 0.55s
43.645 N ± 4.1km 5.793 E ± 4.9km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
MD 1.4 (STR).

CDR 0.04 328 iPgc 21 54.90 -0.9
PUYF 0.13 211 Pg 21 56.83 -0.1
Sg 21 59.17
TAVF 0.19 98 Pg 21 58.19 0.1
Sg 22 02.27
VILF 0.22 345 Pg 21 58.69 0.2
TREF 0.30 266 Pg 21 59.76 -0.2
BERF 0.34 193 Pg 22 00.53 -0.3
GANF 0.36 13 Pg 22 01.35 0.1
Sg 22 07.36
GELF 0.37 226 Pg 22 01.88 0.4
Sg 22 07.45
PRAF 0.48 290 Pg 22 03.30 -0.2
Sg 22 03.30
S.D. = 0.5 on 9 of 9 obs.

? AUG 01, 1990 01h 22m 25.57 ± 3.27s
44.132 N ± 17.0km 6.669 E ± 18.6km
DEPTH = 10.0km (geophysicist)
FRANCE (538)

PZZ 0.49 40 P 22 36.07 0.6
S 22 50.02
STV 0.48 76 P 22 34.53 -0.9
S 22 49.30
ENR 0.55 80 P 22 36.89 0.2
S 22 50.94
DOI 0.56 48 P 22 39.00 2.1X
eSg 22 54.00
ROB 0.88 79 P 22 45.61 3.1X
S 23 00.99
IMI 0.91 104 P 22 43.35 0.4
S 22 58.01
BNI 0.92 0 P 22 43.00 -0.3
eSg 23 00.00
S.D. = 0.8 on 5 of 7 obs.

AUG 01, 1990 01h 29m 44.74 ± 0.60s
43.076 N ± 5.2km 17.701 E ± 6.4km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 3.3 (VIE).

HVAR 0.92 277 iPg 30 01.70 -0.7
iSg 30 17.20
BRT 2.23 190 P 30 22.80 0.5
LCI 2.75 176 P 30 30.50 0.9
DUI 2.79 241 P 30 31.00 0.7
eSn 31 02.50
SKO 2.98 111 ePn 30 31.80 -1.0
VBY 3.00 325 ePn 30 36.80 5.7X
iSn 31 11.40
ZAG 3.00 336 ePn 30 31.40 -1.8
iSn 31 09.70
PTJ 3.09 337 ePn 30 33.70 -0.8
e(Sn) 31 08.70
SGO 3.09 216 P 30 35.00 0.6
SDI 3.19 246 P 30 34.70 -1.2
eSn 31 10.00
AZI 3.33 252 P 30 37.50 -0.4
MGR 3.35 209 P 30 38.00 -0.2
eSn 31 14.00
CEY 3.55 320 e(Pn) 30 46.50 5.5X
e 30 53.00
eSn 31 28.00

TDS 3.57 197 P 30 41.50 0.3
ASS 3.69 272 P 30 43.00 -0.1
eSn 31 23.80
LJU 3.73 324 e(Pn) 30 56.00 12.4X
e(Sn) 31 42.00
TRI 3.86 314 P 30 48.00 2.6
VOY 4.02 319 ePn 30 46.60 -1.1
eSn 31 37.80
VAY 4.02 114 ePn 30 48.70 1.1
CRE 4.23 279 P 30 51.00 0.2
eSn 31 36.50
SRO 4.76 5 eP 31 13.00 14.9X
FVI 4.96 317 P 31 01.50 0.5
ZST 5.14 356 eP 31 11.90 8.4X
e 31 25.20
SOI 5.15 195 P 31 02.00 -1.7
ATN 5.20 200 P 31 25.50 21.1X
GIB 5.80 210 P 31 32.00 19.0X
eSg 31 43.50
SOTA 6.18 314 ePn 31 20.00 1.6
iSn 32 28.70
S.D. = 1.2 on 20 of 27 obs.

% AUG 01, 1990 01h 30m 10.67 ± 0.76s
28.037 S ± 5.9km 26.804 E ± 9.6km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.8 (PRE).

SEK 0.78 112 eP 30 26.50 0.1
S 30 36.50
BFS 1.13 359 eP 30 32.60 0.1
S 30 46.00
BLF 1.20 207 eP 30 33.50 -0.1
S 30 50.50
PRY 1.25 28 ePd 30 44.00 9.5X
S 31 00.60
KIM 1.92 248 eP 30 46.50 2.0X
S 31 10.50
BPI 2.15 31 eP 30 48.00 0.1
S 31 15.00
KSR 2.16 2 eP 30 48.20 0.1
S 31 16.70
EVA 2.53 54 eP 31 04.50 11.2X
S 31 34.50
SLR 2.65 30 eP 30 54.40 -0.5
S 31 30.50
BFT 3.72 52 eP 31 21.00 10.7X
S 31 57.50
S.D. = 0.3 on 6 of 10 obs.

* AUG 01, 1990 01h 33m 43.34 ± 1.29s
37.720 N ± 14.7km 15.117 E ± 9.0km
DEPTH = 10.0km (geophysicist)
SICILY (398)

ATN 0.52 32 P 33 54.50 0.7
eSg 34 04.00
SOI 0.82 64 P 33 58.50 -0.7
GIB 0.90 288 Pd 34 00.00 -0.7
eSg 34 11.00
FAI 1.23 249 P 34 06.80 0.6
TDS 2.16 26 P 34 20.30 0.5
MGR 2.44 8 Pd 34 23.50 -0.3
eSn 34 52.00
S.D. = 0.8 on 6 of 6 obs.

% AUG 01, 1990 01h 56m 52.57 ± 0.76s
28.078 S ± 7.1km 26.900 E ± 7.5km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.8 (PRE).

SEK 0.69 111 eP 57 06.50 0.2
S 57 17.00
BFS 1.18 355 eP 57 15.00 -0.1
S 57 31.00
BLF 1.20 211 eP 57 15.00 -0.6
S 57 31.00
KIM 1.98 250 eP 57 27.90 0.6
S 57 52.90
BPI 2.15 28 eP 57 29.60 -0.1
S 57 55.50
S.D. = 0.6 on 5 of 5 obs.

AUG 01, 1990 02h 04m 27.99 ± 1.00s
31.794 S ± 5.6km 71.968 W ± 9.4km

DEPTH = 59.1 ± 10.1 km
4.7mb (5 obs) 4.5msz (1 obs.)
NEAR COAST OF CENTRAL CHILE (135)

IHA 1.26 167 iP 04 49.60 0.0
iS 04 52.60
ROCH 1.43 146 iPd 04 51.50 -0.7
JACH 1.46 128 iPd 04 51.60 -1.0
iS 05 12.00
LCCH 1.71 169 iP 04 55.50 -0.4
iS 05 18.00
i 05 23.90
SAN 1.99 147 iPc 04 59.80 0.0
i 05 27.00
i 05 30.00
TACH 2.05 155 iPc 05 00.70 0.1
iS 05 26.00
FCH 2.08 138 iPc 05 01.50 0.0
iS 05 28.70
RTBS 2.15 87 ePc 05 03.40 1.4
PCH 2.20 146 iP 05 02.50 -0.3
i 05 27.50
LNV 2.21 168 iPc 05 01.70 -1.1
iS 05 29.50
i 05 37.50
CHCH 2.40 153 iP 05 06.20 0.5
i 05 35.00
i 05 44.00
RTRS 2.69 54 iPc 05 10.00 0.3
RTCB 2.72 84 iPc 05 11.40 1.2
ZON 2.82 86 eP 05 12.20 0.6
MDZ 2.85 113 eP 05 16.10 4.0X
iS 05 19.20
iS 05 57.50
RTCV 2.92 92 eP 05 14.80 1.7
RTLL 3.02 82 ePd 05 14.40 -0.1
CFA 3.18 88 iPd 05 17.80 1.0
CCH 15.29 22 P 08 00.80 -1.2
CNCB 15.35 15 P 08 02.00 -1.0
i 08 08.80
LPB 15.60 14 P 08 08.00 2.0X
LR 13 12.00
ZOB0 15.85 14 P 08 08.60 -0.7
Z 18s 1.50um
LR 12 56.00
SIV 18.60 35 P 08 40.00 -3.0
VAO 23.82 75 eP 09 36.70 0.2
BMA 26.28 77 eP 09 44.20 -15.5X
BAO 27.12 59 eP 10 05.90 -1.6
TUL 70.96 340 eP 15 41.20 0.2
0.9s 5.90nm 4.5mb
LNO 70.96 340 e(P) 15 40.80 -0.1
ALO 73.88 331 eP 16 00.00 1.5
1.0s 2.50nm 4.1mb
ANMO 73.88 331 e(P) 16 00.00 1.5
LIC 74.03 72 P 15 59.80 0.3
Z 22s 0.30um 4.5msz
TIC 74.28 72 P 16 01.20 0.2
KIC 74.34 72 P 16 01.50 0.2
0.8s 13.50nm 4.9mb
LKO 75.51 69 P 16 07.94 -0.2
0.9s 27.50nm 5.2mb
TNP 81.31 325 eP 16 41.00 1.5
KVN 82.50 326 eP 16 46.80 1.2
BUL 88.13 112 iPd 17 11.80 -2.2
1.0s 5.50nm 4.7mb
GBA 146.64 116 PKPc 24 06.20 2.8X
0.7s 16.80nm
HYB 149.74 111 iPKPc 24 15.00 6.7X
S.D. = 1.1 on 34 of 39 obs.

* AUG 01, 1990 02h 10m 45.42 ± 1.84s
31.849 S ± 8.8km 72.043 W ± 15.9km
DEPTH = 62.4 ± 12.1 km
4.8mb (1 obs.)
OFF COAST OF CENTRAL CHILE (134)

IHA 1.22 164 iP 11 07.10 0.4
iS 11 09.80
ROCH 1.42 142 iPc 11 09.00 -0.6
iS 11 29.00
JACH 1.48 124 iPd 11 09.60 -0.8
iS 11 29.50
LCCH 1.67 166 iP 11 13.10 0.3
iS 11 34.00
SAN 1.98 144 iPc 11 17.00 -0.2
iS 11 42.20

01d 02h

TACH	2 03 153	iPd	11 45.00		WB5	31.94 251	eS	56 06.60			ePP	56 16.00	
		iS	11 18.20	0.4			eP	51 21.80	-0.7		eS	05 04.00	
FCH	2 09 135	iPc	11 18.30	-0.7	WRA	31.98 251	Pc	51 21.80	-1.1	LOE	70.27 293	eP	56 09.00 -0.9
		iS	11 45.00			1.5s	81.00nm		5.4mb	NNT	70.58 288	eP	56 13.50 1.7X
LVN	2 17 166	iPc	11 19.30	-0.4	GUA	33.06 319	eP	51 32.70	0.4	TIY	70.63 317	Pc	56 12.00 0.2
		iS	11 53.00			0.8s	53.73nm		5.5mb	Z	28s	2.10um	5.2MsZ
PCH	2.19 144	iPc	11 20.00	-0.1	GUMO	33.13 319	eP	51 32.00	-0.8	N	18s	0.60um	
		iS	11 50.00				eS	56 48.00		XAN	71.19 312	Pc	56 14.80 -0.5
RTBS	2.21 86	iPc	11 21.10	0.7	ASPA	33.18 245	iPd	51 33.10	-0.2		1.5s	200.00nm	6.0mb
CHCH	2.39 151	eP	11 23.70	0.8		0.9s	88.00nm		5.7mb		PP	56 25.00	
		iS	11 55.80		Z	26s	3.92um		5.0MsZ	KMI	72.17 301	Pc	56 22.00 0.5
RTRS	2.78 54	iPc	11 27.90	-0.4			iPcP	54 27.30			1.5s	360.00nm	6.2mb
RTCB	2.79 83	iPc	11 29.00	0.4			eS	56 29.70		Z	22s	1.40um	5.2MsZ
ZON	2.88 85	iPd	11 30.20	0.2			iPcS	58 01.00			PP	56 33.00	
RTCV	2.98 91	e(P)	11 32.00	0.6			iScP	58 23.00			S	05 42.00	
		(S)	12 13.00				LR	02 24.10		HHC	72.90 319	eP	56 26.00 0.7
RTLL	3.09 81	ePd	11 32.30	-0.6	ADE	34.22 223	eP	51 43.70	1.5X	Z	26s	3.20um	5.5MsZ
CFA	3.25 87	iPd	11 35.10	0.0		0.9s	68.91nm		5.6mb		S	05 51.00	
		eS	12 19.00		WARB	40.18 243	eP	52 34.00	1.5X	CHG	73.24 294	iPc	56 28.00 0.4
LIC	74.11 72	P	22 17.10	0.1	PMO	44.38 99	iP	53 23.00	16.2X		1.5s	131.94nm	5.7mb
KIC	74.42 72	P	22 19.00	0.2		1.4s	135.00nm			CHTO	73.24 294	iPc	56 28.00 0.4
LKO	75.59 69	P	22 25.26	-0.3	VAH	44.63 100	iP	53 24.70	15.9X		2.0s	244.19nm	5.9mb
	0.9s	11 00nm	4.8mb			1.4s	100.00nm				pP	56 38.60	34km
GBA	146.67 116	PKPc	30 23.60	3.2X	TPT	44.65 99	iP	53 25.00	16.1X	CD2	73.67 307	eP	56 29.00 -1.0
	0.8s	7 40nm				1.4s	95.00nm			Z	25s	1.20um	5.1MsZ
S.D. = 0.5 on 20 of 21 obs.					RUV	44.87 100	iP	53 26.80	16.1X		eS	05 57.00	
						1.4s	110.00nm			BTO	73.75 319	P	56 31.00 0.7
AUG 01, 1990 02h 44m 57.01±0.43s					MBL	45.62 252	iPc	53 17.30	0.7	N	18s	0.80um	
11.780 S ± 7.5km 166.547 E ± 7.9km					COOL	46.00 238	eP	53 20.00	0.4	E	18s	0.80um	
DEPTH = 30.7km (17 depth phases)					CGP	46.22 294	eP	53 23.00	1.6X		PP	56 42.00	
5.6mb (24 obs.) 5.1MsZ (9 obs.)					MEKA	47.40 245	eP	53 31.00	0.2		eS	05 57.00	
SANTA CRUZ ISLANDS (184)					OPA	48.13 46	P	53 41.00	4.6X	LZH	75.83 312	iPc	56 43.50 1.0
Ms 5.5 (BRK)					KLB	48.98 238	eP	53 42.80	-0.1		2.5s	340.00nm	5.9mb
CENTROID, MOMENT TENSOR (HRV)					NANU	49.70 250	iPd	53 49.50	1.0	Z	26s	1.60um	5.2MsZ
Data Used: GDSN					MUN	50.35 238	eP	53 53.00	-0.4		PP	56 54.50	
L.P.B. 14S. 30C					TSM	50.76 285	ePd	54 08.80	12.1X		PP	59 31.00	
Centroid Location:					PPR	52.13 292	iPd	54 07.00	0.0	SPA	78.30 180	iPc	56 52.70 -2.9
Origin Time: 02:45:12.1 0.8						1.5s	280.00nm		6.0mb		1.1s	95.83nm	5.7mb
Lat 10.75S 0.08 Lon 165.99E 0.03					KKM	53.10 287	ePc	54 13.80	-0.6	SVW	78.56 18	eP	56 59.20 2.2X
Dep 53.2 1.9 Half-duration 2.7						1.5s	204.90nm		5.9mb	TTA	79.90 16	eP	57 05.40 1.2X
Moment Tensor: Scale 10**17 Nm					BAG	53.39 301	eP	54 14.30	-2.3X	GTA	80.13 314	iPc	57 06.80 0.8
Mrr= 3.19 0.09 Mtt= 1.01 0.18					MAT	54.98 332	eP	54 25.00	-2.8X		4.0s	600.00nm	6.0mb X
Mff=-4.20 0.19 Mrt= 0.60 0.12						0.9s	13.45nm		5.0mb	Z	21s	1.50um	5.3MsZ
Mrf= 0.21 0.14 Mtf= 0.31 0.10					Z	20s	1.06um		4.9MsZ		SP	57 18.20	
Principal Axes:							eS	02 05.00			S	07 09.00	
T Vol= 3.35 Plg=75 Azm=351					MTMJ	55.20 332	P	54 27.60	-1.9X	PMR	80.97 20	eP	57 10.30 0.5
N 0.87 15 177					SSE	60.92 316	Pd	55 08.00	-1.5	SHL	81.55 298	iP	57 24.00 10.2X
P -4.22 1 87						1.0s	19.00nm		5.2mb	TOA	82.33 20	eP	57 17.90 0.9X
Best Double Couple: Mo=3.8*10**17					Z	20s	0.90um		4.9MsZ	GCC	82.67 50	eP	57 23.80 4.7X
NP1: Strike=162 Dip=45 Slip= 69					E	18s	1.00um				ePP	57 34.00	32km
NP2: 11 48 110							PP	55 19.00		BRK	82.77 49	eP	57 26.00 6.4X
							eS	03 20.00			ePP	57 34.60	27km
PVC	6.17 164	iP	46 39.00	10.6X	NJ2	63.09 315	Pd	55 24.20	0.2		eLR	22 40.00	
		iS	48 04.50		Z	24s	0.80um		4.8MsZ	BKS	82.79 49	e(P)	57 25.90 6.1X
HNR	6.89 289	iPd	46 38.50	-0.1			eS	03 51.00			1.0s	35.00nm	5.4mb
		iS	47 50.50		KGM	64.30 278	ePc	55 43.40	11.1X	Z	20s	2.50um	5.6MsZ
DZM	10.23 181	iPc	47 30.00	4.9X	ADK	65.04 11	eP	55 49.20	12.8X	N	20s	1.00um	
		iS	49 21.20			1.1s	22.40nm			E	20s	1.90um	
SGE	12.43 119	eP	48 12.80	18.0X	MDJ	65.36 332	eP	55 37.50	-1.1		epP	57 34.60	27km
MBU	12.87 115	eP	48 19.60	18.9X			ePP	55 49.00			e	08 40.00	
VUN	13.07 120	eP	48 21.80	18.5X	WHN	65.46 311	eP	55 39.00	-0.5		e	22 44.00	
SVA	13.12 120	ePc	48 22.90	19.0X	Z	30s	1.00um		4.8MsZ	PRS	82.90 51	eP	57 25.50 5.1X
		eS	49 14.20				PP	55 50.00			epP	57 35.60	32km
RAB	16 10 297	eP	48 44.00	1.1	DL2	65.53 323	Pc	55 39.00	-0.8	SAO	82.99 50	eP	57 26.50 5.7X
PMG	19.21 275	eP	49 22.00	0.6		Z	22s	0.70um	4.8MsZ		epP	57 36.30	31km
BRS	20 21 218	iPc	49 36.00	3.7X	SBA	66.07 180	P	55 45.50	2.8X	IMA	83.00 15	eP	57 20.20 -0.3
		i	49 42.50	24km	SNY	66.37 326	iP	55 44.00	-1.1	MHC	83.04 50	eP	57 27.40 6.1X
		i	50 05.80		Z	27s	1.24um		5.0MsZ		epP	57 36.90	30km
CTA	21.17 244	iPd	49 44.00	1.7X			PP	55 56.00			eLR	03 23.00	
	1.5s	336 11nm	5.5mb				eS	04 25.50		LLA	83.32 51	eP	57 28.70 6.2X
Z	20s	8 87um	5.1MsZ		TIA	66.68 318	eP	55 45.50	-1.8		epP	57 38.20	30km
		i	49 56.00	50kmX		Z	26s	1.80um	5.2MsZ	PRI	83.37 51	eP	57 28.90 6.0X
		iS	53 23.00				Pc	55 46.50	-1.2	LSA	83.41 302	P	57 25.10 1.4X
RMO	22 24 226	iPd	49 56.00	3.1X	CN2	66.77 329	Pc		5.9mb	WDC	83.54 46	eP	57 29.00 5.4X
		i	50 02.40	23km		1.0s	100.00nm		5.1MsZ		epP	57 38.80	31km
COO	23.12 214	eP	50 05.00	3.5X		Z	20s	1.10um		FBA	83.77 18	eP	57 24.20 0.0
QLP	25.64 232	e(P)	50 26.00	0.2		N	20s	1.00um			0.9s	9.40nm	5.0mb
OIS	27 27 248	eP	50 41.00	0.1		E	20s	0.60um		ORV	83.92 48	eP	57 30.80 5.3X
CMS	27.39 221	eP	50 43.00	1.2X			PP	55 57.00			epP	57 39.90	29km
		e	50 55.00	47kmX	IPM	67.15 280	ePc	56 01.40	10.7X		ePP	00 53.00	
BWA	27.94 213	iPd	50 48.50	1.7X		1.2s	158.50nm			CMB	84.22 49	eP	57 31.50 4.4X
CAN	28.33 211	eP	50 52.80	2.5X	GYA	69.48 304	iPc	56 04.80	-0.3		epP	57 41.80	32km
WEL	30.27 168	eP	51 09.00	1.5X			PP	56 15.20			eLR	22 52.00	
		eS	56 07.00		BJI	69.54 321	eP	56 04.50	-0.5				
STK	30.47 225	iPd	51 11.20	1.7X		2.0s	140.00nm		5.7mb	LBFM	84.28 46	P	57 31.00 3.5X
	1.0s	15 00nm	4.8mb		Z	30s	1.88um		5.2MsZ				

01d 04h

S.D. = 1.5 on 28 of 28 obs.

% AUG 01, 1990 04h 50m 59.88 ± 0.67s
44.555 N ± 6.2km 7.288 E ± 5.7km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

PZZ 0.14 249 P 51 03.41 0.1
S 51 05.77
STV 0.31 175 P 51 06.39 0.0
S 51 10.59
ENR 0.34 164 P 51 06.90 -0.1
S 51 11.51
ROB 0.49 122 P 51 09.87 0.0
S 51 16.64
RRL 0.51 316 P 51 10.28 0.0
S 51 17.05
IMI 0.78 146 P 51 15.20 0.1
S 51 24.94
PCP 0.90 90 P 51 17.15 0.0
S.D. = 0.1 on 7 of 7 obs.

% AUG 01, 1990 05h 31m 23.90s
33.180 N 115.550 W
DEPTH = 1.0km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.0 (PAS).

GLA 0.62 102 iPc 31 36.20 -0.1
BAR 1.07 242 iPc 31 44.00 -0.8
PLM 1.11 279 iPc 31 43.70 -2.0
3 obs. associated

? AUG 01, 1990 05h 59m 21.97 ± 6.70s
34.058 S ± 24.8km 72.595 W ± 47.9km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)

LNv 0.99 84 iPd 59 41.00 0.3
iS 59 49.80
LCCH 1.03 56 iPd 59 41.30 -0.2
iS 59 50.00
TACH 1.44 74 iPd 59 47.50 -0.6
iS 00 01.00
CHCH 1.62 86 iPd 59 50.80 0.1
iS 00 08.00
ROCH 1.71 51 iPd 59 52.50 0.3
iS 00 10.00
SAN 1.72 70 iPc 59 52.20 0.1
i 00 08.50
PCH 1.79 76 iPc 59 52.90 -0.3
i 00 12.50
FCH 2.05 70 iPd 59 57.50 0.2
i 00 20.00
MDZ 3.34 71 eP 00 21.50 6.1X
S.D. = 0.4 on 8 of 9 obs.

% AUG 01, 1990 06h 08m 16.47 ± 0.60s
59.751 N ± 4.8km 5.627 E ± 6.9km
DEPTH = 21.8 ± 9.8 km
SOUTHERN NORWAY (535)
MD 1.6 (BER).

ODD1 0.53 72 eP 08 26.95 -0.1
eSg 08 33.80
KMY 0.57 200 iPc 08 27.72 0.0
iSg 08 35.48
BER 0.65 347 eP 08 29.55 0.5
eSg 08 37.54
BLS1 0.71 120 iP 08 30.17 0.0
eSg 08 39.45
ASK 0.77 344 iPc 08 30.70 -0.3
eSg 08 40.69
BLS2 0.81 124 iPd 08 31.89 0.1
eSg 08 42.38
SUE 1.38 342 eP 08 40.24 -0.2
eSg 08 59.25
HYA 1.45 11 eP 08 41.76 0.3
eSg 09 01.13
MOL 2.98 17 eP 09 03.02 -0.3
eSg 09 36.93
S.D. = 0.4 on 9 of 9 obs.

AUG 01, 1990 07h 17m 09.28 ± 0.59s
37.057 N ± 5.6km 29.494 E ± 5.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

MD 4.1 (ATH).

ELL 0.45 133 iPg 17 18.00 -0.5
iSg 17 26.00
KSL 0.94 176 ePb 17 27.50 0.3
eSb 17 46.00
BCK 0.96 65 ePn 17 27.90 0.3
YER 0.97 275 iPn 17 28.50 0.7
KHL 1.26 1 iPn 17 33.50 0.7
ALT 2.05 14 ePn 17 45.00 0.7
SMG 2.21 288 ePn 17 46.30 -0.3
IZM 2.22 308 ePn 17 46.40 -0.3
DST 2.63 345 ePn 17 51.00 -1.6
IZI 3.27 360 ePn 18 07.00 5.3X
S.D. = 0.9 on 9 of 10 obs.

% AUG 01, 1990 08h 50m 39.86 ± 1.26s
26.204 S ± 14.2km 27.703 E ± 12.7km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.2 (PRE).

BPI 0.30 84 eP 50 46.60 0.7
S 50 53.00
SLR 0.70 48 eP 50 53.00 -0.9
PRY 0.75 196 eP 50 54.00 -0.9
S 51 02.10
BFS 1.07 230 eP 51 01.40 0.8
EVA 1.27 104 eP 51 13.50 9.5X
S 51 27.50
SEK 2.11 182 eP 51 12.90 -3.6X
BFT 2.17 77 eP 51 17.50 0.2
S 51 44.50
S.D. = 1.2 on 5 of 7 obs.

* AUG 01, 1990 09h 04m 40.31 ± 1.07s
51.115 N ± 19.2km 178.452 E ± 8.4km
DEPTH = 33.0km (normal)
4.4mb (10 obs.)
RAT ISLANDS, ALEUTIAN ISLANDS (6)
ML 4.2 (PMR).

ADK 3.14 74 ePd 05 29.20 0.7
SMY 3.14 303 ePc 05 30.60 2.0
SVW 17.46 45 eP 08 44.50 1.9
0.6s 5.60nm 3.9mb
TTA 18.10 39 eP 08 51.40 0.9
PMR 20.57 47 eP 09 15.50 -2.9X
IMA 20.59 33 ePc 09 17.80 -1.0
0.7s 4.00nm 3.9mb
TOA 22.05 46 ePc 09 33.00 -0.5
0.9s 26.90nm 4.7mb
FBA 22.22 39 eP 09 33.90 -1.2
INK 28.67 35 eP 10 35.00 -0.6
MBC 34.50 22 eP 11 26.50 -0.2
0.6s 4.00nm 4.5mb
YKA 36.66 46 eP 11 46.40 1.2
0.6s 3.40nm 4.4mb
LBFM 41.35 80 eP 12 26.50 1.8
KVN 45.05 80 eP 12 55.50 0.7
TNP 46.19 80 eP 13 01.50 -2.3
SOD 59.94 348 eP 14 44.00 -1.0
NUR 66.75 346 eP 15 34.00 4.2X
NBZ 67.73 353 P 15 34.40 -1.7
0.7s 1.80nm 4.3mb
HFS 68.42 352 eP 15 39.20 -1.2
0.5s 2.00nm 4.5mb
KKN 70.78 290 P 15 55.80 0.2
0.6s 14.00nm 5.2mb
PKI 70.87 290 P 15 56.20 0.0
GKN 71.00 291 P 15 57.00 0.2
0.6s 11.00nm 5.1mb
WRA 80.65 222 P 16 55.90 4.8X
0.5s 0.40nm 3.7mb
S.D. = 1.3 on 19 of 22 obs.

? AUG 01, 1990 10h 54m 15.82 ± 1.53s
14.481 N ± 17.2km 60.988 W ± 16.5km
DEPTH = 33.0km (normal)
WINDWARD ISLANDS (95)

BIM 0.09 294 iPc 54 21.59 0.0
MVM 0.12 51 iPc 54 21.54 -0.2
S 54 34.00
CRM 0.28 14 iPc 54 23.65 0.3
FDF 0.30 328 iPc 54 24.32 0.7
S 54 39.40

BBL 1.14 335 eP 54 35.00 -0.5
S 54 59.50
PAG 1.68 337 eP 54 43.00 -0.3
S.D. = 0.6 on 6 of 6 obs.

% AUG 01, 1990 11h 03m 16.01 ± 1.20s
26.842 S ± 7.0km 26.650 E ± 13.0km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.5 (PRE).

BFS 0.13 115 iPd 03 18.00 -0.8
S 03 18.50
PRY 0.74 97 eP 03 39.00 8.2X
S 03 46.00
KSR 1.00 13 eP 03 35.00 -0.5
S 03 48.20
BPI 1.40 62 eP 03 42.40 0.0
S 04 01.00
SEK 1.71 150 eP 03 47.50 0.7
S 04 07.00
SLR 1.83 53 eP 03 49.50 0.9
S 35 12.20
BLF 2.29 190 eP 03 55.00 -0.3
BFT 3.26 70 eP 04 24.00 15.0X
S 04 50.50
S.D. = 0.9 on 6 of 8 obs.

? AUG 01, 1990 11h 04m 58.03 ± 7.97s
7.909 S ± 75.5km 123.036 E ± 23.4km
DEPTH = 203.3 ± 32.7 km
4.7mb (4 obs.)
BANDA SEA (280)

MTN 9.35 122 iPd 07 09.50 -0.3
0.4s 133.00nm 5.6mb
eS 08 45.00
KNA 9.60 145 eP 07 13.60 0.6
eS 08 54.00
MBL 13.53 193 eP 08 07.00 3.8X
eS 10 29.00
WB5 16.19 138 eP 08 35.00 -1.0
eS 11 27.80
NANU 16.26 206 eP 08 37.00 0.3
0.4s 10.00nm 4.6mb
eS 11 26.00
ASPA 18.82 148 iPd 09 05.20 0.4
0.4s 6.00nm 4.5mb
iS 12 22.70
MEKA 19.09 192 eP 09 07.00 -0.6
0.3s 8.00nm 4.7mb
eS 12 38.00
QIS 20.37 130 eP 09 21.00 0.5
S.D. = 0.8 on 7 of 8 obs.

* AUG 01, 1990 11h 53m 25.02 ± 0.54s
14.439 S ± 18.0km 73.692 W ± 10.2km
DEPTH = 33.0km (normal)
PERU (116)

PT03 2.09 282 iPd 53 58.80 0.4
iS 54 24.30
PT06 2.63 283 iPc 54 05.90 -0.2
iS 54 31.50
ARE 2.92 134 iP 54 10.50 0.0
iS 54 44.50
PT02 3.05 299 eP 54 12.10 -0.1
iS 54 48.70
PT08 3.72 311 eP 54 22.40 0.5
iS 55 02.40
NNA 3.92 308 iPc 54 23.80 -0.6
iS 55 09.50
PT10 3.96 306 e(P) 54 28.00 2.9X
e(S) 55 15.00
ZOBO 5.67 109 Pc 54 50.00 0.2
LPB 5.78 112 P 54 46.00 -5.2X
CNCB 5.99 114 P 54 54.00 -0.2
S.D. = 0.4 on 8 of 10 obs.

AUG 01, 1990 12h 19m 54.01 ± 0.88s
41.621 N ± 7.6km 22.326 E ± 6.9km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.1 (SKO).

VAY 0.35 148 iPg 20 01.40 0.1
iSg 20 07.40

kKB 0 62 66 iPgc 20 06 00 -0.5
 SKO 0 75 298 ePg 20 08 50 -0.2
 eSg 20 18 50
 MMB 1.05 91 ePgc 20 13 00 -0.9
 VTS 1.17 34 ePg 20 16 00 0.0
 PGB 1.65 55 iPg 20 24 00 0.7
 RZN 1.79 87 iP 20 26 00 0.6

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

* AUG 01, 1990 12h 36m 24.95±2.30s
 42.653 N ±21.9km 24.027 E ±8.2km
 DEPTH = 10.0km (geophysicist)
 BULGARIA (359)
 MD 3.3 (ATH), 3 0 (THE).

SRS 1.57 192 ePb 36 53.00 0.1
 eSb 37 16.50
 KNT 1.71 210 ePbc 36 54.30 -0.7
 eSb 37 20.10
 VAY 1.72 220 ePn 36 55.40 0.4
 RDO 1.88 143 ePn 36 58.00 0.6
 SKO 2.04 251 iPn 37 02.50 2.8X
 iPg 37 07.30
 eSn 37 31.00
 eSg 37 35.50
 GRG 2.09 216 ePn 37 00.50 0.1
 THE 2.17 202 ePn 37 01.60 0.0
 eSn 37 33.50
 ALN 2.31 139 ePn 37 03.10 -0.6
 eSn 37 34.60
 PLG 2.32 191 ePn 37 04.00 0.2
 eSn 37 38.50
 PAIG 2.74 186 ePn 37 09.60 -0.1
 DMK 2.89 105 ePn 37 11.90 0.0

S.D. = 0.4 on 10 of 11 obs.

% AUG 01, 1990 12h 49m 14.26±0.74s
 26.108 S ±8.0km 28.087 E ±8.2km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 2.8 (PRE).

BPI 0.08 218 eP 49 16.80 0.5
 SLR 0.41 25 iPd 49 23.40 0.9
 S 49 29.80
 EVA 0.97 114 iPc 49 40.00 6.7X
 S 49 47.00
 PRY 0.98 214 iPc 49 42.20 8.7X
 S 49 54.50
 KSR 1.10 282 eP 49 34.70 -0.8
 S 49 50.50
 BFS 1.41 236 iPd 49 41.00 0.3
 BFT 1.81 77 eP 49 45.70 -0.9
 SEK 2.24 190 eP 49 52.80 0.0
 S 50 19.50
 BLF 3.43 209 eP 49 58.00 -11.6X

S.D. = 0.9 on 6 of 9 obs.

AUG 01, 1990 14h 54m 03.99±0.51s
 28.137 N ±12.1km 53.329 E ±6.4km
 DEPTH = 33.0km (normal)
 4.3mb (6 obs.) 3.6Msz (1 obs.)
 SOUTHERN IRAN (353)

BBU 3.20 234 ePn 54 58.90 5.9X
 (Sn) 55 29.90
 BRF 3.20 231 ePn 54 58.50 5.5X
 BEE 3.27 230 (Pn) 54 55.90 1.7
 DHR 3.38 238 iPd 55 12.20 16.5X
 iS 56 03.00
 RYD 6.92 242 iPd 55 44.30 -1.4
 iS 57 01.00
 MJMA 7.52 254 ePd 55 51.00 -3.2X
 KER 8.17 321 eP 56 08.00 4.7X
 QASM 8.96 259 eP 56 10.00 -4.2X
 MAIO 9.67 31 eP 56 31.00 7.0X
 eS 58 12.00
 AFIF 9.97 249 iPd 56 29.30 1.2
 UQSK 10.06 259 eP 56 24.30 -5.1X
 QUE 12.08 77 eP 56 56.50 -0.4
 e(S) 00 41.00
 KMTA 13.82 226 eP 57 18.50 -1.5
 ABHA 13.83 227 eP 57 19.10 -1.1
 AYN 15.26 277 eP 57 40.10 1.5
 HOL 16.08 278 eP 57 48.30 -0.9
 PRNI 16.15 282 e(P) 57 49.00 -1.2
 NDI 21.01 83 eP 58 49.00 1.8

ALT 22.14 305 ePn 59 00 00 1.6
 HYB 25.54 109 eP 59 37.50 6.1X
 GBA 26.69 118 Pd 59 51.10 9.0X
 0.9s 5.00nm 4.1mb
 VRI 27.46 317 ePd 00 00 00 11.1X
 PKI 28.33 83 P 59 57.00 -0.3
 WMO 31.64 51 P 00 25.00 -1.3
 KHC 36.90 316 P 01 13.50 2.2
 NUR 37.72 337 eP 01 16.00 -2.0
 CLL 38.02 319 eP 01 23.00 2.4X
 GTA 39.85 61 eP 01 36.20 -0.1
 0.8s 13.00nm 4.7mb
 BCAO 40.61 241 iPd 01 55.00 12.4X
 0.6s 6.00nm
 HFS 41.71 331 eP 01 48.00 -3.0X
 0.5s 3.50nm 4.3mb
 Z 18s 0.07um 3.6Msz
 LR 18 29.00
 CHG 42.65 92 eP 02 00.60 1.3
 CHTO 42.65 92 eP 02 00.70 1.4
 1.0s 3.25nm 4.0mb
 LZH 43.12 66 eP 02 03.00 -0.1
 1.0s 15.00nm 4.7mb
 NB2 43.23 332 P 02 00.40 -3.1X
 0.6s 1.10nm 3.8mb
 XAN 47.49 68 P 02 36.20 -1.7
 TIY 49.81 63 eP 02 55.00 -0.8
 Z 14s 0.20um 4.3MszX
 S.D. = 1.5 on 21 of 36 obs.

AUG 01, 1990 15h 25m 09.71±0.63s
 43.072 N ±7.0km 17.945 E ±5.4km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)
 ML 2.9 (TTG), MD 3.5 (TRI).

BRY 0.47 111 iPgd 25 18.00 -1.3
 eSg 25 26.50
 HCY 0.75 147 iPgc 25 22.30 -2.0
 iSg 25 34.10
 NKY 0.82 108 ePg 25 25.30 -0.3
 eSg 25 39.00
 BDV 1.02 140 iPgc 25 27.50 -1.5
 iSg 25 43.50
 PLE 1.09 76 ePg 25 31.00 0.7
 eSg 25 48.70
 HVAR 1.10 276 iPg 25 28.50 -1.9
 iSg 25 44.30
 TTG 1.16 123 ePg 25 31.20 -0.2
 eSg 25 49.50
 IVA 1.45 97 ePg 25 38.00 2.0
 eSg 25 59.30
 ULC 1.47 139 ePg 25 35.30 -0.9
 eSg 35 57.00
 PVY 1.57 107 ePn 25 39.80 2.1
 eSn 26 02.00
 BAI 2.11 203 P 25 46.00 0.5
 BRT 2.26 194 P 25 55.00 7.3X
 BEO 2.52 45 eP 26 32.00 40.7X
 SKO 2.81 112 ePn 26 02.00 6.5X
 eSn 26 31.30
 VBY 3.10 322 ePnd 26 09.00 10.2X
 iSn 26 39.60
 SGO 3.19 219 P 26 02.50 1.6
 SDI 3.35 247 P 26 08.50 5.3X
 MGR 3.44 212 P 26 06.00 1.6
 BZS 3.66 45 eP 26 07.00 -0.6
 CEY 3.67 318 eP 26 19.50 11.8X
 eSn 27 06.00
 LJU 3.84 322 eP 26 19.00 8.8X
 e(Sn) 27 08.00
 VAY 3.86 115 ePn 26 11.00 0.7
 TRI 3.99 313 e(Pn) 26 17.90 5.7X
 e(Sn) 26 58.10
 iSg 27 14.10
 VOY 4.14 317 ePn 26 13.90 -0.5
 eSn 27 03.80
 FVI 5.09 316 P 26 31.50 3.8X
 KHC 6.78 335 eP 26 51.70 0.1

S.D. = 1.4 on 17 of 26 obs.

AUG 01, 1990 16h 33m 54.63±0.76s
 39.508 N ±6.0km 26.125 E ±9.7km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.0 (ATH).

PRK 0.29 156 iPbc 33 59.80 -0.8
 eSb 34 04.30
 EZN 0.35 26 iPg 34 01.70 -0.2
 iSg 34 08.20
 IZM 1.42 141 ePn 34 21.40 0.9
 RDO 1.70 345 ePn 34 24.00 -0.4
 PLG 2.23 294 ePn 34 32.50 0.2
 eSn 35 04.00
 DMK 2.62 28 ePn 34 38.00 0.3

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

AUG 01, 1990 19h 25m 19.25±0.75s
 28.038 S ±7.4km 26.643 E ±10.2km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 3.2 (PRE), mbLg 3.4 (BUL).

SEK 0.91 108 eP 25 36.50 -0.8
 S 25 45.00
 BLF 1.14 200 eP 25 41.00 -0.2
 S 26 11.50
 BFS 1.14 6 iPd 25 49.50 8.3X
 S 25 56.50
 PRY 1.33 34 iPc 25 54.60 10.2X
 S 26 10.00
 KIM 1.79 246 iP 25 56.50 5.4X
 S 26 17.50
 FRS 2.06 214 eP 25 55.30 0.4
 S 26 16.60
 KSR 2.18 6 eP 25 56.50 -0.3
 S 26 22.40
 BPI 2.23 34 eP 25 57.30 -0.3
 S 26 22.00
 EVA 2.65 55 iPd 26 05.20 1.6
 SLR 2.72 33 iPc 26 03.50 -1.1
 S 26 31.50
 HVD 2.75 201 iPc 25 41.00 -23.9X
 S 26 11.50
 BFT 3.84 53 eP 26 21.00 0.5
 BUL 8.06 13 ePn 27 13.60 -6.4X
 iSn 28 38.00
 iSg 29 22.80
 CIR 8.31 34 ePn 27 20.00 -3.4X
 iSn 28 47.50
 iSg 29 34.50
 KRI 11.49 14 ePn 27 58.10 -9.1X
 iSn 29 58.00
 iSg 31 05.00

S.D. = 1.0 on 8 of 15 obs.

AUG 01, 1990 20h 33m 20.55±0.38s
 38.805 N ±4.9km 14.759 E ±3.4km
 DEPTH = 291.4 ±5.2 km
 4.3mb (33 obs.)
 SICILY (398)

ATN 0.85 139 P 33 58.50 -0.9
 MNO 0.87 183 P 33 59.00 -0.8
 GIB 1.00 215 Pc 34 04.00 3.6X
 SOI 1.25 125 P 33 59.00 -2.6
 MGR 1.47 25 P 34 03.00 0.1
 TDS 1.49 55 Pc 34 02.80 -0.3
 FAI 1.75 210 Pc 34 06.00 1.1
 SGO 1.80 13 Pd 34 05.90 0.6
 ORI 1.82 46 P 34 05.50 0.1
 eSn 34 38.30
 CVT 1.91 235 P 34 06.20 0.1
 BSS 1.98 1 P 34 07.20 0.5
 BRT 2.80 42 P 34 12.30 -1.8
 eSn 34 52.70
 BAI 2.82 34 P 34 13.00 -1.3
 LCI 2.90 57 Pc 34 14.60 -0.5
 eSn 34 56.00
 SDI 2.99 346 P 34 17.00 1.0
 KEK 4.02 75 iPc 34 25.60 -1.3
 ASS 4.55 340 P 34 34.50 1.5
 FNA 5.47 67 iPc 34 44.00 0.1
 EVR 5.50 87 iPc 34 44.50 0.2
 KZN 5.62 72 eP 34 46.50 0.7
 ITM 5.89 104 iPc 34 49.00 0.1
 AGG 5.91 86 iPc 34 50.60 1.5
 SKO 6.00 56 iPc 34 49.70 -0.5
 i 35 58.80
 LIT 6.12 75 iPc 34 52.00 0.3
 VAY 6.50 65 eP 34 56.40 0.2
 THE 6.58 71 eP 34 57.20 -0.1
 KNT 6.68 67 iPc 34 58.60 0.1

	eSP	47	12	00	
	eSS	51	37	50	
CN2	26.82	7	eP	47	15.20 -2.4
MDJ	28.31	13	eP	47	30.50 -0.6
GTA	28.84	325	eP	47	36.00 0.0
	1.2s	90.00nm		5.4mb	
Z	16s	1.50um		4.7MsZ	
GUN	34.05	295	P	48	22.00 -0.3
	0.9s	79.00nm		5.6mb	
PKI	34.40	294	P	48	24.20 -1.1
	0.8s	20.00nm		5.1mb	
KKN	34.55	294	P	48	25.60 -0.8
	0.9s	38.00nm		5.3mb	
DMN	34.67	294	P	48	26.90 -0.6
GKN	35.15	294	P	48	29.80 -1.7
WMQ	38.68	321	eP	49	01.80 0.9
WB5	39.08	160	eP	49	03.20 -1.2
WRA	39.13	160	Pc	49	06.70 1.9
	1.0s	7.10nm		4.3mb	
HYB	40.47	277	eP	49	17.50 1.5
GBA	42.09	271	Pd	49	31.40 2.1
	0.9s	18.70nm		4.8mb	
ASPA	42.49	162	eP	49	31.00 -1.4
	0.9s	9.00nm		4.5mb	
Z	27s	0.14um		3.7MsZ	
	LR	04	23.50		
KOD	42.78	267	eP	49	37.90 2.6
STK	52.61	158	eP	50	45.50 -6.0X
	1.4s	43.00nm		5.2mb	
	e	50	59.60		
MAIO	57.23	302	eP	51	25.00 -0.3
TTA	71.69	29	e(P)	53	00.50 1.5
	0.7s	3.30nm		4.5mb	
IMA	72.57	25	ePc	53	04.70 0.4
	1.0s	2.50nm		4.2mb	
PMR	75.02	30	eP	53	17.20 -1.1
FBA	75.13	26	eP	53	18.20 -0.7
SOD	75.99	337	iP	53	23.00 -0.8
	e	53	28.00		
TOA	76.32	29	ePc	53	27.60 1.8
SUF	77.12	332	eP	53	29.00 -1.1
DSI	77.58	299	eP	53	35.00 1.7
NUR	78.32	330	eP	53	36.00 -0.7
RMN	78.45	298	eP	53	40.00 1.8
INK	79.79	21	eP	53	42.00 -2.6
MBC	80.12	12	eP	53	45.00 -1.3
	0.7s	4.00nm		4.6mb	
MLR	81.42	315	eP	53	56.00 2.1
SIT	82.99	32	eP	54	01.00 -0.6
HFS	83.60	331	eP	54	03.90 -0.8
	0.7s	4.50nm		4.8mb	
Z	18s	0.17um		4.5MsZ	
	LR	27	37.00		
KRA	83.92	320	eP	54	05.80 -0.7
SPC	84.02	320	eP	54	07.80 0.5
NB2	84.34	333	P	54	07.50 -1.0
	1.0s	6.00nm		4.8mb	
VAY	84.99	312	eP	54	11.40 -0.7
SKO	85.59	312	eP	54	14.50 -0.6
	e	54	16.20		
	e	54	26.00		
KSP	85.82	322	eP	54	16.00 -0.1
ZST	86.32	319	eP	54	20.80 2.3
BRG	87.18	323	e(P)	54	23.00 0.3
SQTA	90.35	320	iPc	54	37.20 -0.8
	0.9s	9.80nm		5.1mb	
	i	54	39.60		
	i	54	51.10		
S.D. = 1.3 on 65 of 73 obs.					
? AUG 02, 1990 02h 47m 33.40 ± 3.79s					
31.339 S ± 11.8km 70.842 W ± 31.6km					
DEPTH = 10.0km (geophysicist)					
CHILE-ARGENTINA BORDER REGION (127)					
RTBS	1.23	106	ePc	47	56.10 -0.1
RTRS	1.67	46	ePc	48	02.60 -0.1
RTCB	1.75	95	e(P)	48	04.10 0.0
RTLL	2.03	90	ePc	48	08.70 0.6
RTCV	2.03	105	e(P)d	48	08.00 -0.2
CFA	2.24	98	ePc	48	10.90 -0.2
MDZ	2.29	133	eP	48	11.90 0.1
	iS	48	49.90		
S.D. = 0.3 on 7 of 7 obs.					
? AUG 02, 1990 03h 30m 55.11 ± 8.35s					
31.603 S ± 16.6km 71.786 W ± 67.6km					

DEPTH = 10.0km (geophysicist)					
NEAR COAST OF CENTRAL CHILE (135)					
RTBS	1.99	92	ePc	31	29.00 -0.1
RTRS	2.46	55	iPc	31	35.90 0.1
	eS	32	10.80		
RTCB	2.55	88	eP	31	37.40 0.1
ZON	2.65	90	eP	31	39.50 0.8
RTCV	2.78	96	e(P)	31	41.00 0.5
	(S)	32	18.60		
MDZ	2.80	118	eP	31	40.70 -0.1
	i	31	43.60		
	iS	32	18.70		
RTLL	2.85	85	ePd	31	40.80 -0.7
CFA	3.03	91	ePd	31	43.50 -0.5
S.D. = 0.6 on 8 of 8 obs.					
AUG 02, 1990 03h 38m 41.89 ± 0.86s					
31.675 S ± 7.3km 68.766 W ± 6.3km					
DEPTH = 10.0km (geophysicist)					
SAN JUAN PROVINCE, ARGENTINA (137)					
ZON	0.15	30	eP	38	45.50 0.1
RTCB	0.19	351	iP	38	46.00 -0.2
RTCV	0.27	134	ePc	38	48.00 0.4
RTLL	0.43	36	iPc	38	49.90 -0.7
CFA	0.45	82	iPd	38	50.90 -0.3
RTBS	0.59	271	ePd	38	52.90 -0.8
MDZ	1.21	183	eP	39	08.80 4.4X
	iS	40	28.90		
RTRS	1.61	338	ePd	39	11.90 1.5
S.D. = 0.9 on 7 of 8 obs.					
AUG 02, 1990 03h 52m 20.86 ± 0.85s					
31.772 S ± 4.9km 72.193 W ± 8.7km					
DEPTH = 20.0 ± 4.2 km					
OFF COAST OF CENTRAL CHILE (134)					
IHA	1.33	160	eP	52	45.10 0.7
	iS	52	56.10		
JACH	1.63	124	iPc	52	47.60 -1.2
LCCH	1.78	163	iPd	52	51.30 0.5
	i	53	13.60		
	i	53	22.50		
PEL	1.87	137	iPc	52	51.70 -0.5
SAN	2.12	143	ePc	52	55.20 -0.6
	i	53	23.50		
	iS	53	27.00		
TACH	2.15	151	eP	52	56.70 0.4
FCH	2.23	135	eP	52	57.20 -0.5
LNV	2.28	163	iPd	52	57.50 -0.4
	i	53	25.00		
	i	53	33.50		
PCH	2.32	143	iP	52	58.50 -0.3
RTBS	2.34	88	ePc	52	59.20 0.4
CHCH	2.52	149	iP	53	02.20 0.7
	iS	53	34.00		
RTRS	2.84	56	iPc	53	05.40 -0.5
	eS	53	42.90		
RTCB	2.91	85	eP	53	07.30 0.3
ZON	3.01	87	eP	53	09.50 1.1
MDZ	3.04	112	eP	53	11.90 3.0X
	i	53	14.20		
	iS	53	51.30		
RTCV	3.11	93	e(P)	53	11.00 1.1
RTLL	3.21	83	ePc	53	10.50 -0.8
CFA	3.37	88	ePd	53	13.80 0.2
	eS	53	59.10		
CNCB	15.38	15	P	56	05.00 6.0X
LPB	15.62	15	P	56	02.00 0.0
ZOBO	15.87	14	P	56	05.00 -0.3
Z	16s	0.22um			
	LR	01	08.00		
SIV	18.69	35	P	56	36.00 -4.1X
GBA	146.82	116	PKPd	12	02.20 0.3
	0.8s	3.60nm			
S.D. = 0.7 on 20 of 23 obs.					
AUG 02, 1990 04h 50m 55.88 ± 3.39s					
48.098 N ± 7.9km 1.185 W ± 35.5km					
DEPTH = 10.0km (geophysicist)					
FRANCE (538)					
ML 2.3 (LDG)					
LPF	0.12	124	Pg	50	58.60 -0.2
	Sg	51	01.30		
GRR	0.36	37	Pg	51	03.30 -0.1

			Sg	51	09.20	
FLN	0.81	35	Pg	51	11.50	-0.1
			Sg	51	23.90	
LDF	0.87	55	Pg	51	12.80	0.3
			Sg	51	26.20	
MFF	1.65	154	Pg	51	25.20	0.1
			Sg	51	47.40	
S.D. = 0.3 on 5 of 5 obs.						

AUG 02, 1990 05h 24m 08.55± 0.38s						
31.620 S ± 3.0km 71.695 W ± 4.2km						
DEPTH = 35.8 ± 3.4 km						
5.5mb (47 obs.) 5.9MsZ (15 obs.)						
NEAR COAST OF CENTRAL CHILE (135)						
Ms 5.8 (BRK), 5.6 (PAS).						
Mo=2.0*10**18 Nm (PPT). Felt (V)						
at Illapel; (IV) at Los Vilos						
and Santiago.						
CENTROID, MOMENT TENSOR (HRV)						
Data Used: GDSN						
L.P.B.: 11S, 27C						
Centroid Location:						
Origin Time 05:24:14.1 0.3						
Lat 32.14S 0.03 Lon 72.20W 0.04						
Dep 35.1 1.8 Half-duration 3.8						
Moment Tensor: Scale 10**18 Nm						
Mrr= 1.01 0.03 Mtt= 0.11 0.04						
Mff=-1.12 0.06 Mrt= 0.06 0.04						
Mrf=-0.80 0.06 Mtf= 0.01 0.03						
Principal Axes:						
T Val= 1.28 Plg=72 Azm= 81						
N 0.11 2 178						
P -1.39 18 269						
Best Double Couple: Mo=1.3*10**18						
NP1: Strike= 2 Dip=27 Slip= 95						
NP2: 177 63 87						
IHA	1.40	178	iP	24	31.60	-0.5
JACH	1.41	139	iPd	24	33.80	1.5
PEL	1.74	151	iPc	24	38.00	0.9
LCCH	1.85	177	iPc	24	38.00	-0.6
RTBS	1.91	92	ePc	24	45.00	5.6X
SAN	2.03	155	iPc	24	41.50	0.5
			iS	25	08.40	
FCH	2.08	145	iPc	24	43.00	1.0
TACH	2.13	163	iPc	24	42.50	0.1
PCH	2.23	154	iPc	24	44.50	0.5
LNv	2.34	174	iPc	24	43.70	-1.7
RTRS	2.40	54	Pc	24	51.70	5.4X
CHCH	2.47	159	iPc	24	47.80	0.5
ZON	2.58	89	e(P)	24	47.50	-1.4
RTCV	2.70	96	ePd	24	55.80	5.2X
MDZ	2.72	118	iP	25	43.40	52.5X
			i	25	57.30	
			i	26	02.20	
RTLL	2.77	85	iPd	24	56.00	4.4X
CFA	2.95	91	iP	24	58.50	4.4X
ANT	7.97	8	eP	25	59.50	-5.3X
LPA	11.98	110	iPc+	26	57.50	-2.2
	0.9s	403	3.36nm			6.6mb X
			iPP	27	06.00	
			eS	29	14.00	
CCH	15.04	21	P	27	39.80	-0.8
CNCB	15.13	14	P	27	42.80	0.9
LPB	15.37	13	Pc	27	45.00	0.0
	1.0s	350	.00nm			5.5mb
Z	20s	54	.61um			
			LR	33	46.00	
ZOBO	15.62	13	iPc	27	49.00	0.6
			eLR	32	36.00	
PT03	17.94	347	iPd	28	21.80	4.7X
			iS	33	54.60	
PT06	18.21	345	e(P)	28	23.00	2.7
SIV	18.32	34	P	28	18.50	-3.2X
PT02	19.09	346	e(P)	28	31.60	0.5
PT10	20.05	345	iP	28	42.00	0.4
			e(S)	32	30.00	
PT08	20.07	346	iPd	28	42.70	0.5
			i(S)	34	32.40	
NNA	20.11	345	iPc	28	41.50	-0.7
	1.0s	44	.00nm			4.7mb
Z	20s	6	.03um			4.9MsZ
			iS	32	30.00	
VAO	23.55	75	eP	29	16.00	-0.6
			e	29	20.50	
			e	29	28.20	
			e	29	45.90	

CIR	89.83	115	iPc	37.06.50	1.2
FFC	89.86	343	ePc	37.03.70	-0.9
	1.0s	28.00nm			5.5mb
LON	90.15	328	P	37.05.00	-1.1
IFR	90.19	50	eP	36.54.00	-12.8X
			i	37.07.00	
			i	37.09.00	
PNT	91.17	331	ePc	37.10.00	-0.7
	0.8s	25.00nm			5.6mb
BCAO	92.49	86	iPc	37.18.70	1.1
	0.7s	36.00nm			5.9mb
			i	37.35.00	
MAL	92.63	48	iP+	37.18.00	0.3
			iS	48.54.00	
ATEJ	93.00	48	eP	37.20.50	0.9
ALQJ	93.06	48	eP	37.21.00	1.1
AAPN	93.17	48	eP	37.20.70	0.4
APHE	93.23	48	eP	37.20.70	0.1
ACHM	93.23	48	eP	37.21.70	1.1
ASMO	93.44	48	eP	37.21.70	0.1
POH	94.41	290	iPc	37.35.66	9.5X
KPO	94.42	290	iPd	37.35.56	9.3X
PKL	94.46	290	iPd	37.34.86	8.4X
HBH	94.48	290	iPc	37.35.20	8.7X
HUL	94.49	290	iPd	37.34.60	8.0X
WHA	94.50	290	iPd	37.34.60	8.0X
PFH	94.50	290	P	37.35.20	8.5X
KAE	94.54	290	iPd	37.34.44	7.6X
MYH	94.60	290	iPd	37.33.32	6.2X
MKA	94.61	290	iPd	37.33.21	6.0X
PWH	94.61	290	iPd	37.33.51	6.4X
PUH	94.66	290	iPd	37.32.51	5.0X
NGH	94.68	290	iPd	37.32.78	5.4X
HLP	94.69	290	iPd	37.33.06	5.5X
ESR	94.69	290	iPd	37.32.09	4.4X
AHA	94.69	290	iPd	37.32.35	4.7X
KNH	94.69	290	iPd	37.32.61	5.0X
OUT	94.72	290	iPd	37.31.96	4.2X
RIM	94.72	290	iPd	37.32.01	4.2X
NPH	94.73	290	iPd	37.31.69	3.8X
HTC	94.73	290	iPd	37.33.27	5.5X
HIL	94.73	290	P	37.33.40	5.7X
PPL	94.74	289	iPd	37.34.02	6.3X
CPK	94.76	290	iPd	37.31.87	3.9X
DES	94.77	290	iPd	37.32.04	4.0X
HPO	94.78	289	P	37.35.00	7.1X
TOL	94.79	46	iP+	37.29.00	1.4
			iPP	41.17.00	
			ePPP	43.36.00	
			iS	48.17.00	
			iPS	50.02.00	
			iSS	55.08.00	
			iSSS	59.05.00	
MLX	94.80	290	iPd	37.31.10	2.8
WOH	94.82	290	iPd	37.32.69	4.5X
KFH	94.84	290	iPd	37.31.16	2.7
AIN	94.85	290	iPd	37.31.55	3.1X
KHU	94.91	289	iPd	37.32.50	3.7X
PLL	94.93	290	iPd	37.29.57	0.4
TRH	94.94	290	iPd	37.30.65	1.4
WIF	95.00	290	iPd	37.29.87	0.3
DAH	95.01	290	iPd	37.31.07	1.6
SWH	95.01	290	iPd	37.29.75	0.1
MWH	95.02	290	iPd	37.29.61	0.4
KKU	95.03	290	iPd	37.28.75	-0.6
WOB	95.04	290	iPd	37.29.38	-0.3
HPU	95.06	290	iPc	37.27.39	-2.4
KUH	95.13	289	iPd	37.33.02	3.4X
KIH	95.17	290	iPd	37.30.06	0.1
WKH	95.26	290	iPc	37.26.56	-3.8X
CPH	95.28	290	iPd	37.30.63	0.4
HUH	95.32	290	iPd	37.28.76	-2.0
KKH	95.44	290	P	37.30.40	-0.5
KOH	95.50	290	iPc	37.29.26	-2.1
M					

02d 05h

RTS 2.44 49 eP 37 04.00 0.0
 MDZ 2.56 116 e(P) 36 23.70 -13.0X
 RTCV 2.59 92 e(P) 36 40.20 2.9X
 RTLL 2.70 81 iP 36 40.80 2.0X
 GBA 146.34 115 PKPd 55 32.00 -4.4X
 0.4s 1.70nm

S.D. = 0.7 on 10 of 14 obs.

& AUG 02, 1990 05h 37m 22.67s
 19.843 N 155.617 W

DEPTH = 20.7km

4.8mb (18 obs.) 5.0Msz (1 obs.)

HAWAII (613)

<HVO>P>. ML 4.7 (HVO). Felt (V)
 at Hilo, Honoma, Komuelo,
 Kurtistown, Oakalo and Poauhau;
 (IV) at Hokolou, Howi, Holuoloo,
 Honakoo, Laupohoe, Papooloo,
 Popoikou and Volcano. Also felt
 on Moui, Molokai and Oahu.

WKH 0.04 292 iPc 37 26.56 0.0
 HPU 0.16 112 iPc 37 27.39 -0.5
 HPU 0.26 233 iPd 37 28.76 -0.3
 KKH 0.26 80 iPd 37 28.75 -0.3
 HHH 0.27 152 iPd 37 28.54 -0.6
 eS 37 32.64
 WOB 0.30 174 iPd 37 29.38 -0.5
 KOH 0.32 332 iPc 37 29.26 -0.6
 PLL 0.34 154 iPd 37 29.57 -0.8
 MWH 0.35 177 iPd 37 29.61 -0.8
 KIH 0.36 203 iPd 37 30.06 -0.5
 WHI 0.37 175 iPd 37 29.87 -1.1
 SWH 0.39 178 iPd 37 29.75 -1.5
 MLH 0.41 148 iPd 37 30.38 -0.9
 eS 37 35.84
 TRH 0.43 171 iPd 37 30.65 -1.2
 CPH 0.45 219 iPd 37 30.63 -1.3
 KFH 0.46 156 iPd 37 31.16 -1.0
 MLX 0.46 146 iPd 37 31.10 -1.0
 DAH 0.49 186 iPd 37 31.07 -1.7
 AIN 0.49 162 iPd 37 31.55 -1.1
 UWE 0.52 144 iP 37 31.60 -1.5
 iS 37 35.50
 CPK 0.52 149 iPd 37 31.87 -1.3
 NPH 0.53 143 iPd 37 31.69 -1.6
 RIM 0.55 144 iPd 37 32.01 -1.6
 DES 0.55 157 iPd 37 32.04 -1.5
 OUT 0.55 145 iPd 37 31.96 -1.7
 ESR 0.56 140 iPd 37 32.09 -1.7
 NGH 0.57 104 iPd 37 32.78 -1.1
 AHA 0.57 145 iPd 37 32.35 -1.7
 KHU 0.59 180 iPd 37 32.50 -1.9
 KNH 0.59 149 iPd 37 32.61 -1.7
 PUH 0.60 141 iPd 37 32.51 -1.9
 WOH 0.60 170 iPd 37 32.69 -1.7
 HLP 0.61 152 iPd 37 33.06 -1.6
 KUH 0.62 203 iPd 37 33.02 -1.8
 MVH 0.62 123 iPd 37 33.32 -1.5
 HTC 0.63 161 iPd 37 33.27 -1.7
 MKA 0.64 138 iPd 37 33.21 -1.9
 PWH 0.67 146 iPd 37 33.51 -2.0
 PPL 0.70 168 iPd 37 34.02 -2.0
 KAE 0.72 140 iPd 37 34.44 -1.9
 HUL 0.73 125 iPd 37 34.60 -2.1
 WHA 0.74 133 iPd 37 34.60 -2.1
 HBH 0.74 114 iPc 37 35.20 -1.6
 PKL 0.76 120 iPd 37 34.86 -2.2
 KPO 0.81 115 iPd 37 35.56 -2.3
 POH 0.82 118 iPc 37 35.66 -2.4
 OPA 2.90 310 P 38 05.60 -3.0
 PCC 33.82 52 eP 44 07.50 1.9
 BKS 34.07 51 ePc 44 13.40 5.6
 0.8s 34.00nm 5.3mb
 SAO 34.26 53 eP 44 10.50 1.1
 MHC 34.31 52 eP 44 10.50 0.4
 ARN 34.40 52 eP 44 11.40 0.7
 PRI 34.65 55 eP 44 14.30 1.4
 WDC 34.97 46 eP 44 16.70 1.2
 ORV 35.26 49 eP 44 19.20 1.2
 CMB 35.49 52 eP 44 22.00 2.0
 1.0s 10.83nm 4.7mb
 MIN 35.51 47 eP 44 21.30 1.0
 FRI 35.65 54 eP 44 22.40 1.1
 LBFM 35.75 46 eP 44 24.00 1.6
 ADK 35.98 338 eP 44 30.00 6.2

PLM 36 96 61 eP 44 33.50 0.9
 KVN 37 52 51 eP 44 38.00 0.7
 e 44 43.50
 TNP 37.87 53 eP 44 41.70 1.5
 0.8s 7.06nm 4.5mb
 GLA 38.58 62 eP 44 48.00 1.9
 e 44 54.80
 PNT 41.10 36 ePc 45 00.00 1.3
 0.8s 11.00nm 4.6mb
 SVW 41.22 360 eP 45 09.70 2.2
 MSU 41.80 54 eP 45 14.50 1.7
 PMR 41.96 5 eP 45 12.50 -0.9
 0.7s 13.08nm 4.8mb
 NEW 41.98 38 eP 45 14.50 0.6
 1.0s 10.00nm 4.5mb
 DAU 42.96 52 eP 45 24.20 1.8
 TTA 43.05 360 eP 45 23.30 0.8
 LRM 43.83 44 eP 45 30.60 1.3
 IMW 44.19 47 eP 45 33.80 1.5
 BW06 44.83 49 eP 45 37.80 0.4
 1.0s 6.50nm 4.5mb
 FBA 45.33 5 eP 45 41.30 0.5
 ALQ 45.72 60 eP 45 45.20 0.6
 1.0s 10.00nm 4.7mb
 ANMO 45.72 60 eP 45 45.50 0.9
 1.1s 14.24nm 4.8mb
 IMA 46.22 1 eP 45 50.00 2.1
 0.6s 1.85nm 4.2mb
 EDM 46.49 34 eP 45 50.00 -0.1
 GOL 47.23 54 eP 45 57.00 0.5
 INK 50.39 10 eP 46 20.00 -0.1
 1.1s 46.00nm 5.4mb
 FFC 53.23 36 eP 46 41.00 -0.7
 0.8s 0.00nm 4.7mb
 SIO 54.05 60 eP 46 47.30 -0.8
 TUL 54.47 60 eP 46 50.20 -0.9
 1.2s 21.40nm 5.1mb
 LNO 54.47 60 eP 46 50.30 -0.7
 POW 58.20 59 eP 47 16.40 -1.4
 e 47 22.70
 MBC 59.38 9 eP 47 25.00 -0.5
 1.2s 29.00nm 5.3mb
 GBTN 63.88 59 eP 47 54.60 -1.8
 MDJ 65.63 311 eP 48 07.50 -0.1
 JSC 66.46 60 eP 48 11.80 -1.3
 e 48 18.30
 BLA 66.72 57 ePd 48 14.50 -0.2
 1.2s 53.13nm 5.6mb
 CN2 68.68 310 eP 48 25.00 -1.8
 TBR 70.88 52 eP 48 39.00 -1.3
 GMTN 70.95 52 iP 48 41.30 0.5
 PNJ 70.97 52 iP 48 40.90 0.0
 HBVT 71.18 49 eP 48 41.00 -1.1
 TIA 76.42 304 eP 49 12.40 -0.3
 STK 79.12 230 iPd 49 27.70 0.2
 1.0s 7.00nm 4.6mb
 WRA 79.17 244 Pd 49 27.20 -0.9
 1.2s 9.00nm 4.7mb
 TIY 79.62 306 eP 49 29.60 -0.8
 Z 18s 0.60um 5.0Msz
 N 16s 0.60um
 WHN 80.20 299 eP 49 34.50 1.0
 BTO 80.55 310 P 49 35.70 0.4
 ASPA 81.16 241 eP 49 38.50 -0.2
 1.1s 18.00nm 5.0mb
 BCAO 155.20 14 iPKPc 57 18.00 1.6
 0.5s 5.00nm
 104 obs. associated

* AUG 02, 1990 05h 42m 03.44±0.66s
 31.924 S ±12.8km 71.803 W ±11.4km
 DEPTH = 33.0km (normol)
 4.7mb (4 obs.)

NEAR COAST OF CENTRAL CHILE (135)

CNCB 15.44 14 eP 45 41.00 -0.1
 LPB 15.69 13 P 45 48.00 3.9X
 ZOBO 15.94 13 P 45 48.00 0.5
 SIV 18.63 34 P 46 18.80 -1.7
 VAO 23.72 74 eP 47 14.70 1.3
 BMA 26.17 76 eP 47 37.50 0.8
 PRM 66.40 350 P 52 50.50 -0.8
 TKL 68.16 350 P 53 01.00 -1.3
 ELC 70.75 345 P 53 17.00 -1.2
 TUL 71.13 340 eP 53 20.20 -0.3
 0.7s 9.30nm 5.0mb

FVM 71.68 345 P 53 16.80 -7.0X
 LIC 73.94 72 P 53 38.68 1.2
 ALQ 74.06 331 eP 53 38.00 -0.1
 ANMO 74.06 331 P 53 38.60 0.5
 TIC 74.19 72 P 53 40.06 1.1
 KIC 74.25 72 P 53 40.62 1.3
 GOL 77.77 334 P 53 59.30 0.3
 0.7s 2.58nm 4.4mb
 MSU 79.52 329 P 54 09.80 1.2
 ABL 79.99 322 P 54 11.00 -0.2
 DAU 80.70 331 P 54 15.80 0.8
 TNP 81.50 325 P 54 20.40 1.4
 0.8s 4.41nm 4.5mb
 KVN 82.69 325 P 54 26.00 0.8
 LBFM 86.30 325 P 54 41.50 -1.8
 BUL 87.95 112 iPd 54 49.00 -2.8
 KRI 90.56 110 eP 55 01.70 -2.4
 BCAO 92.60 86 iPc 55 16.00 2.6X
 0.7s 6.00nm 5.1mb
 WRA 122.66 209 PKP 01 00.00 2.2X
 0.5s 1.60nm
 WB5 122.71 210 ePKP 00 59.00 1.1
 QUE 144.77 82 ePKP 01 42.00 3.0X
 GBA 146.46 116 PKPc 01 45.00 3.1X
 0.7s 23.00nm
 GKN 159.23 95 PKP 02 00.00 0.3
 S.D. = 1.3 on 25 of 31 obs.

AUG 02, 1990 05h 58m 26.79±1.24s

11.336 S ±7.0km 166.370 E ±5.1km

DEPTH = 154.8 ±11.5 km

4.9mb (20 obs.)

SANTA CRUZ ISLANDS (184)

HNR 6.60 286 eP 00 03.00 0.5
 eS 01 21.00
 DZM 10.68 180 iPc 00 55.80 -1.0
 iS 02 49.00
 BRS 20.45 217 iP 02 56.00 2.1
 CTA 21.21 243 iPc 03 02.50 1.0
 1.0s 50.00nm 4.9mb
 RMQ 22.42 225 ePc 03 09.40 -3.9X
 0.9s 95.00nm 5.2mb
 STK 30.66 224 iPc 04 28.80 0.0
 0.9s 18.00nm 4.8mb
 WB5 31.92 251 iPc 04 39.00 -0.9
 WRA 31.96 250 Pd 04 39.60 -0.6
 0.6s 12.80nm 4.9mb
 ASPA 33.22 244 iPc 04 49.90 -1.2
 1.2s 40.00nm 5.0mb
 ADE 34.43 222 eP 05 02.10 0.7
 0.8s 34.33nm 5.1mb
 WARB 40.23 243 iPc 05 48.50 -1.4
 PLP 46.81 297 eP 06 52.50 9.6X
 BAL 49.74 239 eP 07 05.00 -0.4
 0.4s 9.00nm 4.8mb
 MUN 50.44 238 iPd 07 10.80 0.1
 PIP 53.91 303 iPd 07 19.20 -17.4X
 SSE 60.49 316 eP 08 07.00 -15.6X
 GYA 69.09 304 P 09 18.00 -0.3
 TIY 70.19 317 eP 09 23.00 -1.8
 Z 22s 5.70um 5.0Msz
 E 19s 2.90um
 XAN 70.77 312 P 09 28.00 -0.3
 KMI 71.79 301 P 09 35.50 0.6
 CHG 72.90 294 iPc 09 41.60 0.4
 1.1s 21.52nm 4.8mb
 CHTO 72.90 294 eP 09 41.70 0.6
 1.0s 19.50nm 4.8mb
 CD2 73.27 307 eP 09 42.00 -1.1
 LZH 75.41 312 P 09 56.50 1.0
 1.0s 38.00nm 5.1mb
 SVW 78.20 18 eP 10 09.90 -0.4
 TTA 79.53 16 ePc 10 17.30 -0.2
 0.8s 9.10nm 4.6mb
 GTA 79.70 314 iPc 10 19.80 0.8
 1.0s 20.00nm 4.8mb
 PMR 80.62 20 eP 10 22.50 -0.6
 TOA 81.98 20 ePc 10 30.30 0.0
 0.8s 35.90nm 5.2mb
 GCC 82.52 50 eP 10 34.10 0.6
 IMA 82.62 15 eP 10 33.50 -0.2
 BKS 82.63 49 eP 10 34.80 0.7
 1.2s 50.00nm 5.2mb
 PRS 82.76 51 eP 10 35.70 0.9
 SAO 82.84 50 eP 10 36.20 0.9
 MHC 82.89 50 eP 10 36.40 0.7

ARN	82.98	50 P	10 36.10	0.1	eSb	21 11.70	LR	48 12.00	
LLA	83.17	51 eP	10 37.80	0.8	S.D. = 0.7	on 5 of 6 obs.	LNO	51.24 288 e(P)	47 43.20 -0.4
PR1	83.23	51 eP	10 38.50	1.1			TUL	51.24 288 eP	47 43.40 -0.3
WDC	83.37	47 eP	10 38.50	0.7	& AUG 02, 1990 06h 32m 15.71s			1.0s 4.30nm	4.3mb
BCH	83.37	52 P	10 37.90	-0.2	59.793 N	152.796 W	MBC	51.57 342 eP	47 47.00 1.3
FBA	83.41	18 eP	10 36.40	-1.1	DEPTH = 88.1km		SIO	51.69 288 e(P)	47 50.00 2.8X
ORV	83.75	48 eP	10 39.90	0.1	SOUTHERN ALASKA	(2)	LRM	58.36 305 eP	48 34.50 -1.4
MIN	83.95	47 eP	10 40.90	-0.1	<AGS-P>		GLA	66.32 294 eP	49 28.00 -0.9
CMB	84.06	49 eP	10 41.50	0.1	AUE	0.52 214 eP	GSC	66.47 297 eP	49 35.00 5.1X
LBFM	84.10	46 P	10 42.00	0.2	HOM	0.60 103 iP	TPC	66.60 296 eP	49 33.00 2.3X
FR1	84.23	51 eP	10 42.30	0.1	RED	0.63 1 iP	CLC	66.73 298 eP	49 33.00 1.5
MWC	84.66	54 eP	10 45.00	0.3		eS	MAIO	67.32 61 eP	49 36.00 0.8
ISA	84.77	52 eP	10 45.00	0.0	XLV	0.64 121 eP	ISA	67.41 298 eP	49 37.00 1.2
SBB	84.98	53 eP	10 45.00	-1.1	PDB	0.71 270 iP	SBB	67.51 297 eP	49 37.00 0.6
RVR	85.13	54 eP	10 46.00	-0.8		eS	RVR	67.58 296 eP	49 34.00 -2.8
PLM	85.35	55 P	10 47.80	-0.4	NNL	0.80 71 iP	S.D. = 1.1	on 27 of 33 obs.	
CLC	85.49	52 eP	10 49.00	0.4		eS			
GSC	85.96	53 eP	10 50.00	-1.0	RDT	0.81 14 iP	* AUG 02, 1990 06h 42m 41.83± 2.27s		
KVN	86.08	49 P	10 51.30	-0.4		iS	32.913 S ±19.1km 71.351 W ± 7.0km		
TPC	86.22	54 eP	10 52.00	-0.2	CNPM	0.84 108 iP	DEPTH = 10.0km (geophysicist)		
RMW	86.32	40 P	10 52.00	-0.5		eS	NEAR COAST OF CENTRAL CHILE (135)		
TNP	86.45	50 P	10 53.30	-0.2	BRLK	0.97 91 eP			
	0.9s	3.58nm	4.2mb		CDD	0.97 207 eP	IHA	0.27 245 eP	42 47.90 0.4
GLA	86.91	56 eP	10 56.00	0.4	MCNL	0.99 233 eP		iS	42 50.50
GUN	86.99	299 P	10 57.00	0.5		eS	LCCH	0.59 198 iP	42 53.70 -0.1
PKI	87.31	299 P	10 58.20	0.2	NKA	1.23 38 eP	PEL	0.61 113 iPc	42 53.90 -0.2
KKN	87.48	299 P	10 59.00	0.3	CKL	1.43 9 iP	JACH	0.68 70 iPd	42 50.10 -5.3X
	0.8s	26.00nm	5.2mb			eS	SAN	0.79 133 iP	42 59.20 2.0
DMN	87.58	299 P	10 59.80	0.6	BGL	1.49 8 eP	TACH	0.82 155 iP	42 58.00 0.4
	1.0s	74.00nm	5.6mb		SEW	1.71 78 eP	FCH	0.98 115 iPc	42 59.20 -1.5
GKN	88.08	299 P	11 01.40	-0.1		eS	PCH	1.00 135 iP	43 01.00 0.2
	0.8s	42.00nm	5.5mb		SUA	1.96 30 eP	LVN	1.04 183 iP	43 00.00 -1.4
MSU	90.39	51 P	11 12.80	0.6	PMS	2.16 46 eP	CHCH	1.17 150 iP	43 04.00 0.2
HYB	91.29	287 eP	11 17.00	0.6	SKT	2.28 15 eP	MDZ	2.10 90 iP	44 04.10 46.5X
GBA	91.60	283 Pc	11 18.20	0.4	PLRM	2.55 43 iP	S.D. = 1.2	on 9 of 11 obs.	
	0.9s	6.70nm	4.8mb		GHO	2.75 42 eP			
LRM	91.97	44 eP	11 19.30	0.0	CUT	2.89 24 eP	* AUG 02, 1990 06h 48m 30.62± 1.42s		
IMW	92.56	46 P	11 22.40	0.3	SML	2.98 45 eP	31.775 S ±17.5km 73.247 W ±19.1km		
ALO	94.11	55 eP	11 28.00	-1.3	MID	3.30 94 eP	DEPTH = 33.0km (normol)		
	1.0s	2.25nm	4.						

02d 08h

31 809 S ± 12.1 km 72.219 W ± 24.1 km
 DEPTH = 28.1 ± 5.1 km
 OFF COAST OF CENTRAL CHILE (134)

IHA	1.31	158	eP	22	20.30	0.8
			e(S)	22	23.10	
JACH	1.63	123	iPc	22	23.20	-1.1
			iS	22	42.50	
LCCH	1.75	162	eP	22	26.50	0.5
			i	22	53.70	
PEL	1.86	136	iPc	22	27.00	-0.6
			iS	28	51.70	
SAN	2.10	142	eP	22	30.00	-1.1
			e	22	31.50	
			iS	22	56.80	
TACH	2.13	150	iPd	22	32.10	0.6
			iS	22	58.00	
FCH	2.22	133	iPd	22	32.50	-0.6
			iS	22	59.10	
LNV	2.25	163	iPd	22	32.80	-0.3
			iS	23	07.50	
PCH	2.31	142	iPd	22	34.00	-0.1
RTBS	2.36	87	eP	22	34.70	0.0
CHCH	2.50	149	eP	22	36.70	0.0
			iS	23	07.00	
RTRS	2.88	56	iPc	22	41.60	-0.4
MDZ	3.05	111	eP	22	46.50	1.9
			i	22	49.80	
			iS	23	25.50	
RTCV	3.13	92	e(P)	22	46.70	0.9
RTLL	3.24	82	e(P)	22	47.10	-0.1
CFA	3.40	88	ePd	22	49.20	-0.3

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

AUG 02, 1990 08h 46m 39.45 ± 0.93 s
 31.700 S ± 5.5 km 72.012 W ± 8.8 km
 DEPTH = 50.4 ± 10.5 km
 4.5mb (8 obs.)
 OFF COAST OF CENTRAL CHILE (134)

IHA	1.36	167	Pd	47	02.70	0.3
			iS	47	04.50	
JACH	1.55	129	iPd	47	04.20	-1.0
			iS	47	24.60	
LCCH	1.81	168	iPc	47	08.60	-0.1
			iS	47	30.50	
			i	47	39.50	
PEL	1.82	142	iPc	47	08.80	-0.2
SAN	2.09	147	iP	47	12.30	-0.4
			iS	47	39.00	
TACH	2.15	155	ePc	47	13.30	-0.2
			iS	47	41.00	
FCH	2.18	139	iPc	47	13.80	-0.5
			iS	47	42.50	
RTBS	2.18	90	ePc	47	15.20	1.2
PCH	2.29	147	iPc	47	15.00	-0.7
			i	47	37.50	
LNV	2.31	167	iPc	47	14.70	-1.0
			i	47	50.50	
CHCH	2.50	153	eP	47	18.70	0.1
			iS	47	52.60	
RTCB	2.75	86	iPc	47	23.00	0.8
MDZ	2.93	115	iP	47	26.80	2.1
			i	47	30.80	
			iS	48	10.90	
RTCV	2.96	94	e(P)	47	26.50	1.3
RTLL	3.05	84	iPd	47	26.00	-0.4
CFA	3.22	89	iPd	47	29.00	0.2
			eS	48	09.80	
ANT	8.09	10	eP	48	47.60	10.6X
ARE	15.18	2	e(P)	50	18.00	5.5X
CCH	15.22	22	P	50	11.90	-1.1
CNCB	15.27	15	P	50	13.30	-0.6
LPB	15.51	14	P	50	17.00	0.1
			i	50	21.00	
			i	50	19.00	-1.3
ZOBO	15.76	14	P	50	19.00	-1.3
			i	50	21.00	
			LR	55	24.00	
VAO	23.83	75	e(P)	51	48.00	-0.9
TKL	67.91	350	P	57	33.20	-1.6
ELC	70.49	345	P	57	49.60	-1.0
ALO	73.78	331	eP	58	11.00	0.6
			i	58	11.50	
			i	58	11.50	1.1
ANMO	73.78	331	P	58	11.50	1.1
			i	58	11.50	
			i	58	11.50	1.1
LIC	74.04	72	P	58	11.40	-0.7

TIC	0.8s	11.50nm	4.9mb
	74.29	72 P	58 12.80 -0.7
KIC	0.8s	7.50nm	4.7mb
	74.35	72 P	58 13.20 -0.7
GOL	0.8s	21.00nm	5.1mb
	77.49	334 P	58 32.30 0.9
MSU	0.8s	2.60nm	4.3mb
	79.24	329 P	58 42.20 1.2
TNP	0.8s	2.94nm	4.3mb
	81.21	325 P	58 53.00 1.5
KVN	0.8s	2.94nm	4.3mb
	82.40	326 P	58 58.00 1.2
BUL	0.8s	17.40nm	4.3mb
	88.20	112 eP	59 21.90 -5.0X
GBA	146.71	116 PKPc	06 18.30 2.2X
	0.8s	17.40nm	4.3mb
HYB	149.80	111 ePKP	06 27.00 6.0X
	1.0s	40.00nm	4.3mb

S.D. = 1.0 on 32 of 37 obs.

AUG 02, 1990 08h 47m 02.84 ± 0.94 s
 38.363 N ± 7.3 km 22.004 E ± 11.2 km
 DEPTH = 5.0km (geophysicist)
 GREECE (364)
 MD 3.0 (ATH).

EVR	0.57	345	ePg	47	13.00	-1.3
ITM	1.18	183	ePb	47	25.00	-0.4
NEO	1.34	45	iPbd	47	28.50	0.4
VLI	1.80	155	ePg	47	39.80	5.0X
KZN	1.95	355	ePg	47	39.50	2.5X
KEK	2.18	309	ePb	47	41.30	1.0
PLG	2.30	29	ePn	47	41.50	-0.5
VAY	2.99	8	ePn	47	52.50	0.8
SKO	3.63	353	ePn	48	05.00	4.1X

S.D. = 1.2 on 6 of 9 obs.

AUG 02, 1990 09h 03m 39.32 ± 0.78 s
 31.755 S ± 4.2 km 72.184 W ± 8.7 km
 DEPTH = 33.0km (normal)
 OFF COAST OF CENTRAL CHILE (134)

JACH	1.63	125	iPd	04	05.50	-0.8
LCCH	1.79	163	iPd	04	08.80	0.4
PEL	1.88	138	iPc	04	09.20	-0.5
SAN	2.13	143	eP	04	12.70	-0.5
			i	04	41.50	
TACH	2.16	151	iP	04	14.20	0.4
FCH	2.24	135	iPd	04	14.70	-0.4
			iS	04	41.50	
LNV	2.29	164	iPd	04	15.00	-0.5
RTBS	2.33	88	ePc	04	16.90	0.8
PCH	2.33	143	iPd	04	16.20	-0.1
CHCH	2.53	150	iP	04	19.40	0.4
			i	04	50.50	
RTRS	2.82	57	iPc	04	23.10	0.1
RTCB	2.90	86	e(P)	04	24.80	0.5
RTCV	3.11	93	e(P)	04	23.00	-4.2X
RTLL	3.20	83	iPc	04	28.40	-0.1
CFA	3.37	89	ePd	04	31.00	0.1
			eS	05	14.80	
CNCB	15.36	15	eP	07	15.00	-0.9
LPB	15.60	15	(P)	07	10.00	-8.9X
ZOBO	15.85	14	P	07	22.00	-0.3
GBA	146.82	116 PKPd	23	19.70	1.3	
			0.6s	4.00nm		

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

AUG 02, 1990 10h 00m 55.61 ± 1.86 s
 31.824 S ± 10.9 km 72.063 W ± 15.6 km
 DEPTH = 32.0 ± 5.9 km
 OFF COAST OF CENTRAL CHILE (134)

IHA	1.25	164	eP	01	18.90	2.0
			iS	01	20.00	
JACH	1.51	125	iP	01	20.00	-0.8
			iS	01	38.50	
LCCH	1.70	166	eP	01	23.50	0.1
			i	01	44.00	
			i	01	48.80	
PEL	1.76	139	iPc	01	23.70	-0.7
			iS	01	45.50	
SAN	2.01	144	iP	01	27.20	-0.8
			iS	01	54.20	
TACH	2.06	153	iP	01	28.50	-0.1
			iS	01	55.00	
FCH	2.12	136	iP	01	28.70	-1.1
			iS	01	56.00	
LNV	2.20	166	iPc	01	29.60	-0.9

PCH	2.22	144	i	02	02.00	
			iP	01	30.60	-0.4
			iS	01	57.00	
RTBS	2.23	87	e(P)	01	27.00	-4.0X
CHCH	2.42	151	iPd	01	33.70	-0.1
			i	02	06.00	
RTRS	2.78	54	ePc	01	37.70	-1.1
RTCB	2.80	84	iPc	01	39.00	-0.3
ZON	2.90	85	eP	01	42.50	1.9
MDZ	2.92	112	eP	01	42.50	1.6
			i	01	45.60	
			iS	02	19.30	
RTCV	3.00	92	e(P)	01	42.00	-0.1
			(S)	02	22.00	
RTLL	3.11	82	ePd	01	43.10	-0.5
CFA	3.27	87	ePd	01	45.50	-0.3
			eS	02	28.20	
GBA	146.70	116 PKPc	20	34.80	0.2	
			1.1s	6.50nm		

S.D. = 1.1 on 18 of 19 obs.

AUG 02, 1990 10h 19m 09.00s
 49.222 N 121.156 W
 DEPTH = 5.0km (geophysicist)
 BRITISH COLUMBIA (23)
 <PGC>. ML 2.6 (PGC).

VDB	0.65	253	Pc	19	20.53	-1.5
MBW	0.66	228	Pc	19	20.00	-2.2
			S	19	28.63	
RPW	0.81	197	P	19	22.97	-2.3
HNB	0.93	274	Pd	19	25.03	-2.2
PNT	1.01	84	eP	19	26.90	-1.7
CMW	1.02	219	Pc	19	27.00	-1.9
			S	19	41.26	
JCW	1.15	207	P	19	29.03	-2.0
			S	19	45.05	
MCW	1.23	244	Pc	19	30.56	-1.8
NLW	1.27	154	P	19	31.01	-2.1
OHW	1.28	226	P	19	31.94	-1.2
SNB	1.40	252	P	19	33.91	-1.3
WPB	1.41	289	Pd	19	33.09	-2.2
BIB	1.42	278</				

ML 2.4 (VIE).					DEPTH = 6.0km					RTLL 3.24 83 ePc 05 38.60 -0.7				
Oss 0.09 240 iP+ 01 04.70 0.5					CENTRAL CALIFORNIA (39)					CFA 3.40 88 ePd 05 40.80 -0.8				
OGA 0.55 75 iPgC 01 12.70 0.1					<BRK>. ML 2.5 (BRK).					S.D. = 0.7 on 16 of 17 obs.				
VDL 0.59 246 iP+ 01 13.00 -0.6					SAO 0.20 315 iP 03 01.10 -0.3					* AUG 02, 1990 14h 15m 25.42±1.75s				
SOTA 0.82 53 iPgC 01 17.20 -0.2					LLA 0.26 92 iP 03 02.60 -0.1					32.551 S ± 8.1km 71.645 W ±16.0km				
id 01 17.40					PRS 0.30 195 iP 03 03.20 -0.3					DEPTH = 25.7 ± 5.9 km				
iSg 01 28.20					PRI 0.69 134 eP 03 10.30 -0.8					NEAR COAST OF CENTRAL CHILE (135)				
01 28.40					iS 03 24.10					JACH 0.90 99 iPd 15 40.20 -2.1				
LLS 0.87 280 iP+ 01 17.60 -0.8					GCC 0.71 305 iPc 03 10.20 -1.3					iS 15 53.00				
TMA 1.14 237 eP 01 23.20 0.3					ARN 0.75 344 eP 03 11.80 -0.6					LCCH 0.92 176 iPd 15 42.50 -0.1				
SLE 1.58 312 eP 01 30.40 0.7					MHC 0.77 338 eP 03 12.40 -0.4					iS 15 58.00				
S.D. = 0.7 on 7 of 7 obs.					iS 03 25.70					PEL 1.00 126 iPd 15 43.30 -0.5				
AUG 02, 1990 11h 28m 41.72±0.75s					PHAM 1.06 138 eP 03 16.40 -1.2					iS 15 57.00				
36.347 N ± 7.6km 27.241 E ± 7.8km					PKEM 1.09 121 eP 03 18.00 -0.2					SAN 1.22 138 iP 15 46.70 -0.2				
DEPTH = 10.0km (geophysicist)					PCC 1.25 315 eP 03 18.90 -1.9					iS 16 04.90				
DODECANESE ISLANDS (369)					FRI 1.31 73 iPc 03 20.10 -1.7					TACH 1.25 152 iPc 15 47.50 0.2				
MD 3.5 (ATH).					iS 03 36.80					iS 16 06.50				
KAP 0.80 184 iPgC 28 55.90 -1.3					BKS 1.47 329 iPc 03 25.10 0.8					FCH 1.38 125 iPd 15 48.50 -0.9				
eSg 29 06.70					CMB 1.58 26 eP 03 24.10 -1.8					iS 16 08.50				
YER 1.15 46 iPn 29 02.50 -0.7					KVN 3.49 45 eP 03 59.00 5.6					LNV 1.41 172 iPd 15 49.50 -0.1				
SMG 1.40 347 ePn 29 08.50 1.3					14 obs. associated					iS 16 10.00				
APE 1.55 298 ePb 29 09.20 -0.3					% AUG 02, 1990 13h 50m 44.83±0.76s					PCH 1.43 139 iPd 15 50.30 0.4				
NPS 1.71 231 ePn 29 13.00 1.3					26.864 S ± 6.3km 26.653 E ± 7.1km					iS 16 11.50				
eSb 29 34.00					DEPTH = 5.0km (geophysicist)					CHCH 1.61 149 iP 15 53.40 0.9				
KSL 1.91 96 ePn 29 14.70 0.1					REPUBLIC OF SOUTH AFRICA (584)					iS 16 16.70				
ELL 2.18 79 ePn 29 19.80 1.1					ML 2.7 (PRE).					RTBS 2.06 65 ePc 15 59.40 0.4				
BCK 2.90 67 ePn 29 32.00 3.1X					BFS 0.12 106 eP 50 47.00 -0.5					MDZ 2.38 99 iP 16 05.60 2.0				
PRK 2.99 345 ePn 29 28.50 -1.5					S 50 47.30					iS 16 37.30				
RDO 4.97 345 ePb 30 04.40 6.3X					PRY 0.74 95 iPd 50 59.00 -0.5					RTCB 2.64 67 eP 16 07.90 0.6				
S.D. = 1.4 on 8 of 10 obs.					S 51 06.60					ZON 2.71 69 eP 16 08.50 0.2				
AUG 02, 1990 11h 47m 36.00±1.19s					KSR 1.02 12 eP 51 04.10 -0.6					RTCV 2.72 76 ePc 16 09.20 0.7				
31.824 S ± 5.9km 72.010 W ±11.0km					S 51 17.50					S 16 44.00				
DEPTH = 55.5 ± 11.7 km					BPI 1.41 61 eP 51 16.00 0.5					RTLL 2.96 67 ePd 16 11.00 -0.8				
OFF COAST OF CENTRAL CHILE (134)					SEK 1.69 150 eP 51 16.00 0.7					eS 16 48.00				
JACH 1.47 126 iP 48 00.00 -0.7					SLR 1.84 53 eP 51 18.30 0.8					RTRS 3.02 39 e(P) 16 12.20 -0.4				
iS 48 17.50					EVA 2.20 81 eP 51 32.50 9.8X					CFA 3.04 73 iPd 16 12.90 -0.1				
LCCH 1.69 167 iPd 48 03.90 0.3					S 51 41.30					S 16 53.00				
i 48 29.50					BLF 2.27 190 eP 51 23.50 -0.3					S.D. = 1.0 on 17 of 17 obs.				
PEL 1.73 140 iPc 48 04.00 -0.2					S 51 59.00					AUG 02, 1990 14h 20m 10.08±0.68s				
TACH 2.04 154 eP 48 08.00 -0.5					KIM 2.51 221 eP 51 27.00 -0.1					38.717 N ± 6.5km 23.478 E ± 7.5km				
FCH 2.09 136 iPc 48 09.00 -0.5					BFT 3.26 70 eP 51 44.00 6.1X					DEPTH = 10.0km (geophysicist)				
iS 48 36.50					S 52 12.50					GREECE (364)				
LNV 2.18 167 iPd 48 10.10 -0.4					S.D. = 0.7 on 8 of 10 obs.					ML 3.3 (ATH).				
i 48 42.00					* AUG 02, 1990 14h 04									

GUA	43.98	63 eP	11	31.30	-1.1
	0.3s	135.06nm			6.2mb
NDI	44.25	324 iPc	11	33.00	-1.4
	0.5s	563.38nm			6.6mb X

TIY	44.43	8 eP	11 36.00	0.2
Z	16s	4.60um		5.5mszX
N	16s	4.30um		
		eS	18 10.50	

KAGJ	44.67	32	eP	11	37.60	-0.1
CMS	45.23	129	eP	11	43.00	0.8

KUMJ	45.71	30	P	11	46.40	0.4
RMQ	45.80	121	ePc	11	47.80	0.9

0.9s 127.00nm 5.8mb
e 13 23.00 507kmX

GTA	45.93	354	iPc	11	47.60	-0.1
	0.8s		30.00nm			5.3mb

Z	20s	4.60um	5.4Msz
N	13s	1.20um	
		BcB	13 24 40

PCP	13	24.40
ScP	17	12.00
S	18	29.00

			S	10	29.00	
			ScS	21	37.00	
BTO	47.02	5	P	11	56.00	-0.3

N	22 s	7.80 μ m
E	16 s	3.50 μ m

			eS	18	51.00	
SHNJ	47.13	29	eP	11	57.30	0.2

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BJI      47.32    11 eP      11 59.00    0.4
          1.1s      35.00nm          5.2mb
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Z	19s	3.55um	5.4MsZ
N	18s	2.49um	

ePcP	13	30.00
ePP	13	50.00
eScP	17	18.50

			eSCP	17	18.50	
			eS	18	50.00	
HHC	47.42	6	eP	12	00.00	0.6

Z	24 s	6.90um	5.5MsZ X
N	11 s	0.50um	

E 10s 0.40um
eS 18 54.00

DL2 47.58 17 P 12 00.20 -0.4
Z 18s 1.80um 5.1MsZ

	N	16s	1.90um		
BWA	48.44	131	eP	12	09.70 2.2

TKSJ	48.51	32	eP	12	08.10	0.2
YONJ	49.15	31	eP	12	12.30	-0.5
CAN	49.25	132	-P	12	14.00	0.3

CAN	49.25	132	eP	12	14.00	0.3
BRS	49.50	121	iPd	12	18.00	2.2
			i	12	36.00	71 kmX

WKYJ	49.52	33	eP	12	16.00	0.2
COO	49.72	125	eP	12	17.00	-0.4

TSRJ	50.73	32	P	12	24.20	-0.6
SNY	50.85	18	iPc	12	24.80	-0.9

1.4s	100.00nm	5.6mb
Z 19s	2.50um	5.3Ms z

E	20s	3.10um		
		PP	12	35.80

SP	12	42.00
PP	14	22.00
C	10	34.00

				S	19	34.00	
QUE	51.83	317	eP	12	32.20	-1.4	
MTM1	52.48	33	R	12	37.30	-1.0	

MMJ	52.49	33 P	12	37.50	-1.6
WMQ	52.55	344 P	12	38.00	-0.6
7	30s	3.10um			5.2MsZx

2	503	5.100m		5.2m32A
		S	20	02.00
		ScS	22	24.00

MAT	52.67	33	iPc	12	38.00	-1.6
Z	20s		1.42um			5.0Msz

			eS	20	43.00	
CHJJ	52.75	34	P	12	38.60	-1.5

KSH 53.17 332 P 12 43.50 0.2
E 16s 4.60um

			S	20	10.00	
CN2	53.21	18	iPc	12	42.60	-0.8

	1.0s	100.00nm	5.8mb
Z	22s	2.20um	5.2Ms z
N	13s	1.10um	

N 13s 1.10um
E 13s 0.30um
SP 13 02.00

PCP	13	55.00
PP	14	45.00

			ScP	17	43.00	
KAKJ	53.53	35	P	12	43.40	-2.4

HNR	54.07	97 ePc	12	50.00	-0.2
	0.9s	137.82nm			6.0mb

YAMJ 54.86 33 P 12 54.70 -0.9

SUA	1.54	23	eP	28 25.45	0.3
PMS	1.69	44	eP	28 12.18	-0.2
PWA	1.90	32	eP	28 15.35	0.1
SKT	1.94	6	iP	28 15.65	-0.2
PLRM	2.08	41	iP	28 16.99	-0.6
SVW	2.08	302	iP	28 42.21	-1.6
GH0	2.28	40	iP	28 19.82	-0.7
CUT	2.50	19	iP	28 23.50	0.1
SML	2.50	44	iP	28 22.70	-0.8
SCM	2.89	50	eP	28 27.73	-1.1
VLZ	2.99	66	eP	28 28.22	-1.9
HUR	3.14	20	eP	28 33.13	0.8
KLU	3.30	62	eP	28 33.01	-1.6
TTA	3.47	328	eP	28 35.56	-1.4
TOA	3.49	51	iP	28 36.44	-0.8
GLB	4.24	67	iP	28 45.38	-2.4
DDM	4.73	35	eP	28 55.04	0.5
WRH	4.79	21	eP	28 53.69	-1.6
HDA	4.96	26	eP	28 56.08	-1.6
FBA	5.23	20	eP	28 59.19	-2.3
GLM	5.38	21	eP	29 02.20	-1.5
PCA	5.87	85	eP	29 07.53	-2.9
BCPM	6.20	86	eP	29 12.50	-2.4
HON	6.65	90	eP	29 17.52	-3.6

44 obs. associated

AUG 02, 1990 19h 08m 55.21 ± 0.93s
 22.629 N ± 6.9km 94.265 E ± 6.3km
 DEPTH = 120.8 ± 10.8 km
 4.8mb (14 obs.)

BURMA (296)

SHL	3.65	324	iP	09 55.00	4.0X
CHTO	5.79	130	iPn	10 17.90	-2.3
KMI	8.14	71	Pc	10 53.50	1.1
LOE	8.73	125	eP	11 02.00	1.9
GUN	9.23	306	P	11 06.90	-0.2
PKI	9.41	303	Pd	11 09.20	-0.3
KKN	9.62	304	Pd	11 11.40	-0.8
DMN	9.67	303	P	11 12.60	-0.3
GKN	10.22	304	Pd	11 19.80	-0.3
NNT	11.26	152	eP	11 36.10	2.4
CD2	11.82	44	eP	11 40.40	-0.7
GYA	11.91	69	P	11 40.20	-2.2
OIZ	15.00	101	eP	12 24.30	2.2
HYB	15.65	253	eP	12 39.50	9.2X
LZH	15.78	30	eP	12 34.50	2.4
NDI	16.50	295	iPd	12 48.00	7.1X
XAN	17.17	45	P	12 47.20	-1.9
GTA	17.38	15	eP	12 51.80	0.0
GBA	18.33	244	P	13 09.00	6.1X
IPM	19.10	159	ePc	13 12.70	1.5
WHN	19.60	62	eP	13 15.50	-0.8
TIY	21.68	42	eP	13 37.80	0.4
WMO	21.82	347	P	13 42.50	3.8X
KSH	22.88	321	P	13 56.60	7.5X
SSE	25.41	65	iPc	14 13.00	0.0
BJI	25.41	42	eP	14 12.50	-0.5
QUE	25.55	293	eP	14 19.50	4.8X
MAIO	33.01	302	eP	15 26.00	5.1X
CN2	33.26	43	eP	15 21.00	-1.8
MTN	50.47	131	eP	17 41.30	-1.6
KNA	50.95	135	iPc	17 46.00	-0.5
WB5	57.60	134	iPc	18 34.30	-0.6
WRA	57.63	134	Pd	18 35.10	0.0
MUN	58.22	158	iPd	18 39.50	0.5
KLB	58.42	156	eP	18 40.00	-0.4
VRI	58.65	311	ePd	18 45.50	3.6X
COOL	59.13	153	eP	18 45.00	-0.3
NWAO	59.44	158	eP	18 47.00	-0.4

ASPA	60.02	138	iPc	18 50.70	-0.9
SUF	60.12	330	iP	18 54.20	2.5
SOD	60.74	336	iP	18 58.00	2.1
HFS	65.99	327	eP	19 32.20	1.8
NB2	67.13	328	P	19 39.30	1.6
STK	70.63	138	eP	19 59.70	0.2
KRI	74.41	244	eP	20 19.80	-2.4
BUL	76.88	242	iPd	20 34.90	-1.2

S.D. = 1.5 on 37 of 46 obs.

* AUG 02, 1990 19h 12m 16.93 ± 2.25s
 31.859 S ± 10.8km 71.878 W ± 20.7km
 DEPTH = 33.0km (normal)
 NEAR COAST OF CENTRAL CHILE (135)

JACH	1.36	127	iPd	12 39.90	0.0
PEL	1.63	142	iPd	12 43.50	-0.2
LCCH	1.63	171	eP	12 44.50	0.8
TACH	1.96	156	iPc	12 47.80	-0.7
FCH	1.98	138	iPd	12 48.50	-0.7
PCH	2.10	147	eP	12 50.60	0.1
LNv	2.13	169	eP	12 51.00	0.2
RTRS	2.67	52	eP	12 57.80	-0.7
MDZ	2.76	113	eP	13 11.60	11.8X
RTLL	2.96	81	iPc	13 03.80	1.1
CFA	3.11	86	e(P)	13 05.00	0.1

S.D. = 0.7 on 10 of 11 obs.

AUG 02, 1990 19h 12m 39.86 ± 0.38s
 37.014 N ± 3.6km 29.530 E ± 3.7km
 DEPTH = 20.4 ± 4.2 km
 4.0mb (9 obs.)

TURKEY (366)
 MD 4.3 (HLW). Felt in the Cameli district.

ELL	0.40	131	iPg	12 48.10	-0.3
KSL	0.89	177	eP	12 59.30	2.7
BCK	0.96	62	iPn	12 58.50	0.8
YER	1.00	277	iPn	12 57.00	-1.5
KHL	1.31	360	iPn	13 03.00	-0.1
ALT	2.09	12	ePn	13 14.70	0.3
SMG	2.25	289	eP	13 16.50	-0.1
IZM	2.27	308	iPn	13 16.50	-0.4
KAP	2.40	233	eP	13 20.50	1.8
DST	2.68	345	iPn	13 22.20	-0.6
PPCY	3.12	132	eP	13 31.00	2.1
APE	3.20	272	eP	13 30.50	0.3
IZI	3.32	359	iPn	13 31.80	0.0
GPA	3.33	10	ePn	13 32.40	0.5
PRK	3.40	312	eP	13 32.50	-0.4
BNT	3.57	340	ePn	13 34.90	-0.4
EDC	3.57	339	iPn	13 34.60	-0.8
NPS	3.62	242	eP	13 36.50	0.4
CSS	3.70	122	eP	13 39.50	2.3
EZN	3.77	319	iPn	13 36.70	-1.4
GBZT	3.77	359	ePn	13 37.50	-0.6
BBTK	3.80	41	ePn	13 41.00	2.4
ISK	4.06	355	ePn	13 46.00	3.7X
ITU	4.11	355	ePn	13 57.00	14.1X
VAM	4.60	251	eP	13 56.30	6.3X
ATH	4.72	283	iPd	13 53.00	1.3
RDO	5.16	324	iPd	13 57.40	-0.5
VLI	5.29	269	eP	14 02.00	2.2
KAS	5.46	36	eP	14 04.00	1.9
NEO	5.47	297	eP	14 03.00	0.7
KDZ	5.62	327	iP	14 04.00	-0.4
PLG	5.82	307	eP	14 07.00	-0.2

JMB	5.90	338	eP	14 08.00	-0.2
DIM	5.90	330	eP	14 07.00	-1.3
RZN	5.97	323	iP	14 09.00	-0.5
ITM	6.08	274	eP	14 15.00	4.2X
ADI	6.10	128	eP	14 10.50	-0.7
PLD	6.30	325	eP	14 14.00	0.0
EVR	6.39	290	eP	14 16.50	1.2
MMB	6.41	317	eP	14 15.00	-0.6
ZNT	6.58	135	eP	14 15.50	-2.4
SHMJ	6.67	128	Pc	14 18.80	-0.4
PGB	6.90	325	eP	14 21.00	-1.4
KZN	6.90	301	eP	14 23.50	1.0
VAY	6.91	311	eP	14 22.80	0.3
KKB	6.95	316	iPd	14 22.00	-1.1
PVL	6.98	334	iPd	14 25.00	1.6
JARJ	7.12	130	Pd	14 25.20	-0.3
SALJ	7.12	133	Pc	14 24.70	-0.9
KFNJ	7.22	134	P	14 25.00	-1.9
HLW	7.30	168	ePc	14 27.50	-0.4
KOT	7.32	164	ePn	14 27.00	-1.3
MASJ	7.34	134	P	14 27.00	-1.7
VTS	7.39	321	eP	14 29.00	-0.4
MKT	7.64	141	eP	14 32.00	-0.8
CMP	8.91	339	ePd	14 50.00	-0.4
VRI	9.09	348	ePd	15 04.00	11.1X
TDS	10.69	288	P	15 18.50	3.5X
SOL	10.75	280	P	15 13.00	-2.7
KHC	16.76	321	eP	16 43.00	8.1X
PRU	16.88	325	eP	16 42.00	5.7X
BRG	17.78	326	eP	16 51.00	3.5X
SBF	18.13	299	eP	16 51.10	-0.9
CLL	18.51	326	eP	16 57.00	0.5
LPG	19.06	304	eP	17 04.50	0.8
LPL	19.08	304	eP	17 04.20	0.4
CDF	19.85	312	eP	17 12.10	-0.3
SMF	21.34	305	eP	17 28.10	0.4
LOR	21.53	306	eP	17 32.70	3.1X
SSF	21.69	306	eP	17 33.90	2.7
AVF	21.71	305	eP	17 30.30	-1.1
DOU	22.18	314	Pc	17 37.90	1.9
GRR	24.89	307	eP	18 01.20	-1.3

S.D. = 1.3 on 63 of 73 obs.

AUG 02, 1990 19h 20m 02.28 ± 0.49s
 37.017 N ± 4.6km 29.481 E ± 4.8km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

ELL	0.44	128	iPg	20 10.80	-0.4
KSL	0.90	175	eP	20 20.00	0.5
YER	0.97	277	ePn	20 20.00	-0.7
BCK	0.99	63	iPn	20 20.50	-0.6
KHL	1.30	1	iPn	20 26.00	-0.5
ALT	2.09	14	ePn	20 39.20	1.3
SMG	2.22	289	iPd	20 39.50	-0.1
IZM	2.23	309	iPn	20 39.50	-0.4
KAP	2.37	233	eP	20 44.50	2.7X
DST	2.67	346	ePn	20 46.20	0.1
BNT	3.55	340	ePn	20 59.00	0.5
NPS	3.59	242	eP	20 59.50	0.4
BBTK	3.82	41	eP	21 05.00	2.5X

S.D. = 0.7 on 11 of 13 obs.

% AUG 02, 1990 19h 23m 16.75 ± 1.42s
 36.911 N ± 14.4km 29.397 E ± 9.3km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

ELL	0.44	111	iPg	23 26.30	0.5
YER	0.92	284	ePn	23 34.00	-0.4
BCK	1.10	60	ePn	23 36.00	-1.4

02d 19h

KHL 1.41 4 iPn 23 42.00 -0.6
 ALT 2.21 15 ePn 23 56.00 1.9
 S.D. = 1.8 an 5 of 5 abs.

% AUG 02, 1990 19h 30m 12.82±0.71s
 42.792 N ± 6.8km 12.841 E ± 11.5km
 DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)

ASS 0.31 335 P 30 19.00 -0.3
 eSg 30 25.00
 MNS 0.42 196 P 30 20.50 -1.0
 eSg 30 26.50
 AQU 0.60 136 P 30 25.30 0.3
 eSg 30 34.50
 AZI 0.92 151 P 30 29.00 -1.3
 RDP 1.04 185 P 30 34.00 1.6
 CRE 1.06 322 P 30 33.00 0.2
 eSn 30 49.00
 SDI 1.30 146 P 30 37.50 0.5
 PGD 1.36 323 P 30 38.00 0.1
 S.D. = 1.1 an 8 of 8 abs.

? AUG 02, 1990 19h 42m 13.51±4.46s
 31.529 S ± 20.5km 68.891 W ± 13.8km
 DEPTH = 89.5 ± 43.4 km

SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.09 61 iPd 42 26.60 -0.1
 RTLL 0.41 61 iPc 42 27.90 0.1
 RTCV 0.45 138 iPc 42 28.00 -0.1
 RTBS 0.50 255 ePd 42 28.40 0.1
 CFA 0.56 98 iPd 42 29.00 0.0
 eS 42 42.00
 RTRS 1.44 340 iPd 42 38.00 0.0
 S.D. = 0.1 an 6 of 6 abs.

AUG 02, 1990 20h 02m 20.24±0.70s
 38.383 N ± 5.2km 22.073 E ± 9.8km
 DEPTH = 10.0km (geophysicist)

GREECE (364)

ML 3.0 (ATH).

EVR 0.57 339 iPg 02 32.30 0.4
 ITM 1.21 186 ePb 02 42.00 -0.7
 NEO 1.29 44 ePb 02 44.00 -0.1
 ATH 1.36 107 ePb 02 45.00 -0.2
 VLI 1.80 157 ePn 02 52.50 1.0
 KZN 1.94 353 ePn 02 54.30 0.7
 PLG 2.25 28 ePn 02 58.00 -0.2
 SKO 3.62 352 ePn 03 16.50 -1.0
 S.D. = 0.8 an 8 of 8 obs.

& AUG 02, 1990 20h 08m 57.40s
 36.967 N 121.275 W
 DEPTH = 7.0km

CENTRAL CALIFORNIA (39)

<BRK>. ML 2.4 (BRK).

SAD 0.24 214 iPd 09 02.00 -0.4
 ARN 0.43 332 iPd 09 07.40 1.2
 MHC 0.48 322 iPd 09 06.80 -0.2
 iS 09 08.60
 GCC 0.58 276 eP 09 09.00 -0.1
 eS 09 17.00
 PCC 1.03 301 eP 09 16.00 -1.1
 BKS 1.19 320 ePd 09 19.00 -0.8
 BRK 1.20 319 e(P) 09 18.90 -1.1
 eS 09 34.40
 7 obs. associated

* AUG 02, 1990 20h 09m 17.16±2.75s
 31.810 S ± 12.7km 72.167 W ± 23.2km
 DEPTH = 27.7 ± 5.7 km

OFF COAST OF CENTRAL CHILE (134)

JACH 1.59 124 ePd 09 42.50 -1.4
 iS 10 02.60
 LCCH 1.74 163 ePc 09 46.00 0.1
 PEL 1.83 137 iPd 09 47.00 -0.3
 iS 10 09.00
 TACH 2.11 151 iPc 09 51.90 0.6
 FCH 2.19 134 iPc 09 52.50 -0.2
 iS 10 19.90
 LNV 2.23 164 iP 09 52.90 -0.1
 iS 10 22.00
 i 10 28.10

PCH 2.28 143 iP 09 53.50 -0.3
 RTBS 2.32 87 ePc 09 54.10 -0.1
 CHCH 2.47 149 eP 09 57.00 0.5
 i 10 27.50

RTRS 2.84 56 ePd 10 01.00 -0.6
 e 10 02.80
 eS 10 36.00

RTCB 2.89 84 e(P) 10 02.00 -0.4
 ZON 2.99 86 eP 10 05.50 1.7
 MDZ 3.00 112 iP 10 11.90 7.8x
 iS 10 44.30

RTCV 3.09 92 ePd 10 06.00 0.7
 RTLL 3.19 82 ePd 10 06.20 -0.5
 e 10 08.10

CFA 3.35 88 ePd 10 09.10 0.1
 S.D. = 0.8 an 15 of 16 abs.

? AUG 02, 1990 20h 31m 10.13±4.05s
 31.265 S ± 12.2km 70.821 W ± 33.8km
 DEPTH = 10.0km (geophysicist)

CHILE-ARGENTINA BORDER REGION (127)

RTBS 1.23 109 eP 31 32.70 -0.3
 RTRS 1.60 47 ePc 31 38.40 -0.1
 e 31 40.20
 eS 32 13.70

RTCB 1.74 98 e(P) 31 41.00 0.3
 ZON 1.85 99 eP 31 43.50 1.2
 RTLL 2.01 92 ePd 31 44.20 -0.4
 RTCV 2.04 108 e(P) 31 45.00 0.1

CFA 2.23 99 e(P) 31 47.10 -0.7
 e 31 50.50
 MDZ 2.32 134 eP 31 49.00 -0.1
 iS 32 25.80

WRA 123.64 209 Pd diff 46 45.70 3.2x
 0.5s 6.50nm

WB5 123.69 209 ePd diff 46 45.50 2.8x
 S.D. = 0.7 an 8 of 10 abs.

AUG 02, 1990 21h 04m 41.12±0.35s
 44.646 N ± 2.7km 7.288 E ± 4.1km
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)

ML 2.2 (GEN), 2.2 (LDG).

DOI 0.15 192 Pc 04 45.00 0.4
 eSg 04 47.30

PZZ 0.19 223 P 04 45.19 -0.3
 S 04 47.95
 STV 0.40 176 P 04 49.02 -0.4
 S 04 54.25

ENR 0.43 167 P 04 49.33 -0.6
 S 04 54.87
 S 04 54.90

RRL 0.45 308 P 04 55.54
 S 04 55.54
 ROB 0.55 130 P 04 52.16 0.0
 S 04 59.44

BN1 0.60 313 Pd 04 52.60 -0.7
 eSg 04 59.00
 SBF 0.79 172 Pg 04 56.40 -0.1
 Sg 05 05.50

LSD 0.82 353 P 04 57.28 0.2
 S 05 07.44
 IMI 0.85 149 P 04 57.18 -0.4
 S 05 08.46

PCP 0.90 96 P 04 58.72 0.2
 S 05 11.74
 LPG 0.93 336 Pg 04 59.30 0.2
 Sg 05 11.30

LPL 0.96 336 Pg 04 59.80 0.3
 Sg 05 12.20
 FRF 1.18 203 Pg 05 03.50 0.4
 Sg 05 18.00

LRG 1.37 210 Pg 05 06.90 0.7
 Sg 05 25.00
 LMR 1.43 203 Pg 05 07.70 0.6
 Sg 05 25.40

S.D. = 0.5 an 16 of 16 abs.

* AUG 02, 1990 21h 17m 18.74±0.75s
 38.398 N ± 14.1km 48.228 E ± 9.2km
 DEPTH = 33.0km (normal)

4.1mb (2 obs.)

N.W. IRAN-USSR BORDER REGION (344)

TAB 1.53 258 eP 17 44.00 -0.3
 i 17 46.40

TEH 3.66 135 eP 18 15.00 0.4
 KER 4.14 193 eP 18 26.00 4.7x
 MAIO 9.21 100 eP 19 32.00 -0.4
 eS 21 13.00

NUR 26.64 334 eP 23 14.00 18.2x
 KHC 27.00 305 eP 23 02.90 3.5x
 CLL 27.82 309 e(P) 23 17.00 10.3x
 HFS 30.74 326 eP 23 33.00 0.3

0.6s 3.40nm 4.3mb
 NB2 32.25 327 P 23 46.10 0.1
 0.7s 1.20nm 3.9mb

S.D. = 0.5 an 5 of 9 obs.

* AUG 02, 1990 21h 54m 37.91±1.40s
 31.719 S ± 6.1km 72.233 W ± 13.0km
 DEPTH = 57.9 ± 18.9 km

OFF COAST OF CENTRAL CHILE (134)

JACH 1.69 125 iPd 55 04.40 -1.2
 iS 55 24.50
 LCCH 1.84 162 iPc 55 08.10 0.5
 iS 55 35.00

PEL 1.93 138 iPc 55 08.50 -0.5
 SAN 2.18 143 eP 55 11.50 -0.9
 i 55 36.50
 i 55 41.50

TACH 2.22 151 iP 55 13.20 0.3
 iS 55 39.60
 FCH 2.29 135 iPc 55 13.70 -0.6
 iS 55 42.00

LNv 2.34 163 iPd 55 14.60 0.1
 iS 55 50.50
 RTBS 2.37 89 eP 55 15.60 0.6
 PCH 2.39 143 ePc 55 15.20 -0.2
 iS 55 46.00

CHCH 2.58 149 iP 55 18.60 0.6
 i 55 51.00
 i 55 55.50

RTRS 2.84 58 iPc 55 21.80 0.1
 RTCB 2.94 86 iPc 55 23.30 0.0
 ZON 3.04 88 iPc 55 25.50 0.9
 MDZ 3.09 113 iP 55 26.90 1.5
 i 55 30.50
 iS 56 06.30

RTCV 3.15 94 ePc 55 26.80 0.6
 RTLL 3.24 84 ePc 55 27.00 -0.5
 CFA 3.41 89 ePd 55 29.50 -0.3
 e 55 31.00
 eS 56 11.00

CNCB 15.34 16 eP 58 14.00 1.2
 i 58 20.00
 LPB 15.58 15 P 58 15.00 -0.8
 ZOBO 15.83 15 P 58 20.00 0.9

Z 20s 0.23um
 LR 22 03.00
 SIV 18.67 36 P 58 51.20 -2.6
 KIC 74.53 72 (P) 06 13.20 0.7

WRA 122.66 210 Pd diff 09 56.00 -3.3x
 0.4s 1.00nm
 GBA 146.87 116 PKPd 14 17.40 3.6x
 0.8s 8.20nm

S.D. = 1.0 an 22 of 24 obs.

% AUG 02, 1990 22h 41m 26.21±0.76s
 36.223 N ± 7.4km 27.231 E ± 8.5km
 DEPTH = 10.0km (geophysicist)

DODECANESE ISLANDS (369)

MD 3.3 (ATH).

KAP 0.67 184 ePn 41 39.50 -0.1
 eSn 41 49.50
 SMG 1.52 348 ePn 41 53.50 0.2
 APE 1.61 302 ePn 41 54.50 -0.2
 NPS 1.63 234 ePb 41 55.20 0.2
 eSn 42 13.50

KSL 1.91 92 ePn 41 59.00 0.0
 S.D. = 0.2 an 5 of 5 obs.

* AUG 02, 1990 23h 09m 33.53±1.36s
 43.967 N ± 6.1km 16.499 E ± 15.6km
 DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)

MD 3.0 (TRI). Felt in the Knin
 area.

HVAR 0.79 183 iPg 09 49.50 0.6
 iSg 10 01.70

VBY 1.77 330 ePnc 10 05.80 1.4
 iSg 10 25.80
 iSn 10 27.50
 ZAG 1.89 349 ePn 10 05.80 -0.2
 iSn 10 28.80
 PTJ 1.97 349 ePn 10 05.70 -1.7
 eS 10 31.10
 CEY 2.30 321 ePn 10 14.50 2.3
 eSn 10 41.60
 LJU 2.50 327 e(Pn) 10 14.00 -0.9
 e 10 16.50
 eSn 10 43.50
 TRI 2.61 313 e(Pg) 10 20.50 4.1X
 i(Sg) 10 47.10
 VOY 2.77 319 ePn 10 18.80 -0.1
 eSn 10 52.70
 ASS 2.93 254 P 10 21.00 -0.1
 SDI 3.00 222 P 10 22.50 0.5
 MNS 3.21 242 P 10 23.00 -2.0
 CRE 3.31 266 P 10 27.00 0.5
 FVI 3.71 316 P 10 32.50 0.4
 SOTA 4.94 313 iPnc 10 48.90 -0.7
 0.3s 3.10nm
 i 10 53.70
 i 11 14.00
 iSn 11 40.80
 i 11 45.80

S.D. = 1.3 on 13 of 14 obs.

AUG 02, 1990 23h 35m 11.93 ± 0.54s
 39.115 N ± 8.8km 72.515 E ± 9.7km
 DEPTH = 33.0km (normal)
 4.5mb (6 obs.)

KIRGHIZ SSR (716)

QUE 10.01 209 eP 37 39.00 2.3
 MAIO 10.69 259 eP 37 44.00 -1.9
 eS 39 41.00
 NDI 11.11 158 eP 37 50.00 -1.6
 eS 40 01.00
 GKN 14.98 134 P 38 43.80 0.7
 KKN 15.51 133 P 38 49.20 -0.8
 PKI 15.75 133 P 38 53.50 0.3
 SUF 36.39 326 eP 42 15.00 0.4
 SOD 37.92 333 iP 42 27.80 0.4
 HFS 41.79 320 eP 42 59.00 -0.6
 0.4s 3.90nm 4.5mb
 NB2 43.05 321 P 43 09.20 -0.7
 0.6s 1.10nm 3.8mb
 AVF 49.71 303 eP 44 03.00 0.4
 0.8s 4.05nm 4.5mb
 MAF 50.40 302 eP 44 08.80 0.9
 0.8s 2.70nm 4.3mb
 LDF 51.39 306 eP 44 15.40 0.0
 0.6s 3.60nm 4.5mb
 BTH 53.34 299 eP 44 22.00 -8.0X
 e 44 26.00
 MBC 64.67 3 ePc 45 48.40 0.3
 0.6s 7.00nm 4.9mb
 S.D. = 1.2 on 14 of 15 obs.

AUG 03, 1990 00h 54m 12.25 ± 0.47s
 38.872 N ± 4.9km 22.027 E ± 3.7km
 DEPTH = 7.2 ± 2.7 km
 3.7mb (1 obs.)

GREECE (364)
ML 3.4 (ATH). MD 3.5 (THE).

EVR 0.18 285 iPg 54 14.50 -1.6
 AGG 0.28 57 iPg 54 19.10 1.1
 NEO 1.03 65 iPnd 54 34.00 2.1
 LIT 1.28 16 iPbc 54 36.40 0.2
 eSb 54 55.80
 KZN 1.45 352 iPbc 54 39.00 0.1
 IGT 1.47 297 ePb 54 40.10 0.9
 eSb 55 01.20
 ATH 1.60 124 ePb 54 41.20 0.2
 PAIG 1.66 50 iPbc 54 41.60 -0.2
 eSb 55 04.10
 LSK 1.69 320 iPnd 54 41.70 -0.6
 ITM 1.69 183 iPnd 54 43.50 1.2
 PLG 1.86 36 iPbc 54 44.00 -0.8
 SRN 1.87 303 ePn 54 56.60 11.8X
 KEK 1.92 297 ePg 54 48.00 2.3
 GRG 2.10 8 ePn 54 48.20 -0.1
 TPE 2.11 313 ePn 54 47.50 -0.9
 VLI 2.27 161 ePn 54 49.50 -1.2

KNT 2.38 16 iPnc 54 52.40 0.1
 eSn 55 24.00
 VAY 2.48 9 iPn 54 53.70 0.0
 SRS 2.54 28 ePn 54 53.90 -0.7
 TIR 2.98 327 ePn 55 07.50 6.8X
 MMB 3.01 25 ePc 55 00.00 -1.2
 PHP 3.06 337 iPnc 55 02.80 0.9
 KKB 3.10 15 iPc 55 02.00 -0.4
 SKO 3.13 352 iPnc 55 02.00 -0.9
 iPg 55 10.20
 iSn 55 39.00
 i 55 43.80
 LCI 3.47 296 P 55 07.40 -0.3
 RZN 3.48 35 iPg 55 08.00 -0.1
 RDO 3.53 49 ePn 55 07.30 -1.2
 PUK 3.56 333 ePn 55 10.40 1.4
 SDA 3.69 329 ePn 55 11.70 0.9
 BCI 3.80 337 ePn 55 16.60 4.3X
 KDZ 3.80 42 iP 55 11.00 -1.4
 VTS 3.82 13 eP 55 13.00 0.1
 VAM 3.87 153 ePb 55 18.50 5.1X
 TTG 4.13 330 ePn 55 17.30 0.3
 eSn 56 07.30
 BRT 4.22 300 P 55 18.70 0.3
 TDS 4.49 282 P 55 24.30 2.2
 BAI 4.56 301 P 55 21.00 -2.1
 SOI 4.75 262 P 55 24.00 -2.0
 SGO 5.45 290 P 55 35.60 -0.2
 DUI 6.42 298 P 55 50.00 0.3
 SDI 6.89 297 P 55 56.00 -0.1
 VRI 7.81 25 ePd 56 09.00 0.1
 NB2 23.19 347 P 59 21.30 1.0
 1.0s 2.20nm 3.7mb
 S.D. = 1.1 on 39 of 43 obs.

AUG 03, 1990 02h 31m 16.74 ± 0.76s
 36.165 N ± 9.7km 27.209 E ± 7.4km
 DEPTH = 33.0km (normal)
 DODECANESE ISLANDS (369)
 MD 3.9 (ATH).

KAP 0.61 183 ePn 31 29.00 0.0
 YER 1.30 41 ePn 31 36.00 -2.7
 SMG 1.57 349 ePn 31 43.80 1.2
 NPS 1.58 236 ePn 31 42.50 -0.3
 APE 1.62 304 ePn 31 44.50 1.0
 KSL 1.92 91 ePn 31 48.20 0.5
 ELL 2.25 74 ePn 31 54.00 1.4
 BCK 3.01 64 ePn 32 03.00 -0.2
 VLI 3.49 280 ePn 32 09.00 -1.0
 S.D. = 1.5 on 9 of 9 obs.

* AUG 03, 1990 02h 41m 52.57 ± 3.33s
 31.789 S ± 14.8km 72.119 W ± 28.0km
 DEPTH = 10.0km (geophysicist)
 OFF COAST OF CENTRAL CHILE (134)

ROCH 1.51 142 iP 42 19.00 -0.8
 iS 42 38.20
 JACH 1.57 125 iP 42 28.00 7.4X
 iS 42 55.20
 LCCH 1.74 165 iPd 42 25.50 2.5
 i 42 44.00
 PEL 1.81 138 iPc 42 23.30 -0.8
 iS 42 45.50
 TACH 2.11 152 iP 42 28.00 -0.4
 i 42 55.20
 FCH 2.18 135 iP 42 28.50 -1.2
 iS 42 56.50
 LNV 2.24 165 eP 42 30.50 0.3
 i 43 04.00
 PCH 2.27 144 iP 42 30.30 -0.5
 i 43 02.50
 RTBS 2.28 87 ePc 42 30.60 -0.1
 RTRS 2.80 55 ePc 42 37.20 -0.9
 iS 43 12.80
 RTCB 2.85 85 eP 42 38.80 -0.2
 ZON 2.94 86 eP 42 41.50 1.2
 MDZ 2.97 112 eP 42 42.70 2.0
 i 42 45.70
 iS 43 20.00
 RTCV 3.05 92 ePc 42 42.20 0.4
 RTLL 3.15 83 ePd 42 42.70 -0.5
 CFA 3.31 88 e(P) 42 47.00 1.5
 S 43 28.00
 S.D. = 1.2 on 15 of 16 obs.

AUG 03, 1990 02h 53m 41.12 ± 0.51s
 26.324 S ± 4.7km 27.349 E ± 4.8km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 3.3 (PRE). mbLg 3.5 (BUL).

KSR 0.61 318 iPd 53 53.40 0.0
 S 54 01.50
 PRY 0.61 170 iPd 53 53.00 -0.4
 S 53 58.60
 BPI 0.63 77 eP 53 53.60 -0.1
 BFS 0.76 221 iPd 53 56.50 0.0
 SLR 1.02 55 iP 54 01.00 0.0
 S 54 13.40
 EVA 1.56 97 iPd 54 20.80 11.1X
 S 54 35.00
 SEK 2.01 173 iPd 54 17.00 0.8
 S 54 40.00
 BFT 2.51 76 eP 54 23.50 0.1
 S 54 54.00
 BLF 2.96 200 iPc 54 29.50 -0.3
 KIM 3.32 223 iP 54 34.90 -0.1
 FRS 3.85 207 eP 54 40.00 -2.3X
 eS 55 16.50
 S 55 23.00 30.4X
 HVD 4.57 200 eP 55 11.20 -5.4X
 BUL 6.26 11 iPnd 55 18.10
 iSn 56 18.10
 iSg 56 52.30
 CIR 6.56 37 iPn 55 06.00 -14.6X
 iSn 56 11.00
 iSg 56 43.00
 KRI 9.68 13 ePn 55 56.30 -8.0X
 iSn 57 39.00
 iSg 58 34.00
 CER 9.90 223 eP 56 03.10 -4.1X
 WIN 10.06 290 eP 56 06.50 -3.0X
 NAI 26.52 22 iPc 59 38.70 16.9X
 S.D. = 0.4 on 9 of 18 obs.

% AUG 03, 1990 03h 20m 54.98 ± 1.05s
 26.343 S ± 10.9km 27.578 E ± 11.7km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 2.3 (PRE).

BPI 0.44 68 eP 21 03.60 -0.2
 S 21 08.00
 PRY 0.59 189 eP 21 06.50 -0.3
 SLR 0.88 46 eP 21 11.80 -0.6
 BFS 0.90 232 eP 21 13.00 0.2
 S 21 23.00
 EVA 1.35 97 eP 21 31.00 10.4X
 S 21 45.00
 SEK 1.97 179 eP 21 29.50 -0.1
 S 21 49.00
 BFT 2.31 74 eP 21 35.50 1.0
 S 22 03.50
 S.D. = 0.7 on 6 of 7 obs.

% AUG 03, 1990 04h 21m 07.09 ± 1.24s
 46.428 N ± 10.9km 3.514 E ± 7.7km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.1 (LDG).

SMF 0.31 46 Pg 21 14.10 0.5
 Sg 21 18.60
 AVF 0.38 343 Pg 21 15.00 0.1
 Sg 21 20.10
 BGF 0.48 286 Pg 21 17.10 0.3
 Sg 21 27.90
 LBF 0.64 30 Pg 21 19.60 -0.4
 Sg 21 27.90
 MAF 0.69 253 Pg 21 20.90 0.2
 Sg 21 30.10
 LOR 0.87 16 Pg 21 23.60 -0.3
 Sg 21 34.80
 TCF 0.91 262 Pg 21 24.20 -0.4
 Sg 21 36.80
 S.D. = 0.4 on 7 of 7 obs.

& AUG 03, 1990 04h 52m 22.40s
 60.074 N 151.899 W
 DEPTH = 58.8km
 KENAI PENINSULA, ALASKA (14)
 <AGS-P>.

FCH	2.19	134	i	59 53.50		TPT	24.91	94	iP	41 51.50	-0.3	BJI	84.98	313	eP	49 02.00	-1.5
			Pc	59 27.00	-0.8		1.5s	195.00nm			5.5mb			1.4s	18.00nm		5.1mb
LNv	2.22	163	iPc	59 27.50	-0.4	RUV	25.13	95	iP	41 53.20	-0.7	FKO	87.31	53	e(P)	49 15.50	0.4
			iS	59 54.60			1.5s	95.00nm			5.2mb	INK	87.56	14	eP	49 27.00	11.4X
PCH	2.28	142	iP	59 29.00	0.2	STK	44.42	239	eP	44 32.20	-7.6X	SIO	88.30	52	e(P)	49 22.00	2.1
RTBS	2.33	87	iPc	59 29.80	0.4		1.8s	29.00nm			4.8mb	TUL	88.75	52	e(P)	49 24.30	2.3
CHCH	2.47	149	eP	59 31.70	0.4	WB5	50.00	256	eP	45 16.10	-7.6X	YKA	89.43	23	eP	49 28.30	3.7X
			i	00 02.90				i	45 32.10				1.0s	2.30nm		4.5mb	
			i	00 06.00				i	46 06.90				1.1s	6.10nm		4.8mb	
RTRS	2.86	56	iPc	59 36.00	-0.7	WRA	50.02	256	P	45 17.00	-6.9X	LZH	92.80	306	eP	49 50.00	9.0X
RTCB	2.90	84	iPc	59 37.50	0.0		1.4s	25.90nm			5.1mb	MBC	96.22	11	eP	50 07.00	11.4X
ZON	3.00	86	eP	59 39.50	0.7	ASPA	50.35	251	iPc	45 17.60	-8.8X	KEV	123.48	352	ePKP	55 35.00	10.1X
MDZ	3.01	111	iP	59 41.00	2.0		0.9s	67.00nm			5.7mb	NUR	132.38	348	ePKP	55 52.00	9.8X
RTCV	3.10	92	e(P)	59 41.00	0.8	Z	26s	1.20um			4.8mszX	NB2	133.58	357	PKP	55 55.10	10.5X
RTLL	3.21	82	ePc	59 41.20	-0.5			LR	03 38.10				1.0s	4.20nm			
			e	59 43.10		SBA	63.97	185	eP	46 56.00	-6.0X	HFS	134.31	355	ePKP	55 42.60	-3.4X
CFA	3.37	87	e(P)	59 44.30	0.4	MAT	68.39	320	eP	47 40.00	9.2X		0.6s	2.90nm			
			e	59 47.10			1.3s	26.92nm			5.2mb	KRA	143.08	346	ePKP	56 09.30	7.0X
CCH	15.38	22	eP	02 23.00	-4.1X	PRS	70.58	42	eP	47 44.50	0.3	CLL	143.09	353	ePKP	56 03.00	0.7
CNCB	15.43	15	P	02 30.00	2.1			eP	47 55.50	36km				e	56 12.00		
LPB	15.67	15	P	02 36.00	5.1X	GCC	70.59	42	eP	47 44.50	0.3	BRG	143.41	352	ePKP	56 08.20	5.4X
ZOBO	15.92	14	P	02 34.00	-0.2			eP	47 55.00	34km				e	56 21.00		
SIV	18.73	35	P	03 05.80	-2.5	PCC	70.62	41	eP	47 43.30	-1.1	SPC	143.81	345	ePKP	56 11.60	7.8X
PPD	20.98	67	eP	03 30.30	-1.6			eP	47 54.30	36km		PRU	144.19	351	ePKP	56 00.50	-3.7X
KIC	74.52	72	(P)	10 27.00	1.5	BCH	70.77	44	P	47 45.60	0.0			e	56 13.50		
						SAO	70.79	42	eP	47 45.80	0.3	KAS	144.47	324	ePKP	56 02.50	-2.6X
								eP	47 56.50	35km		PSZ	145.07	344	iPKP	56 16.80	10.9X
						BRK	70.93	41	eP	47 46.80	0.5	KHC	145.16	352	PKP	56 04.70	-1.3
								eP	47 57.50	35km				e	56 17.20		
						PRI	70.93	43	eP	47 47.00	0.5	ZST	145.46	348	ePKP	56 05.10	-1.3
								eP	47 58.00	36km				i	56 18.30		
						MHC	71.00	41	eP	47 47.30	0.4	FLN	145.51	8	ePKP	56 04.40	-2.1
								eP	47 53.20	19kmX			1.2s	71.40nm			
						LLA	71.03	42	eP	47 48.00	1.0	SRO	145.56	346	ePKP	56 14.50	7.9X
						MWC	71.62	46	eP	47 50.00	-0.8			i	56 18.10		
						FHC	71.68	37	eP	47 50.80	0.0	CMP	145.75	337	ePKPd	56 07.00	-0.1
						BAR	71.78	48	eP	47 51.00	-0.6	LPF	146.14	9	ePKP	56 06.90	-0.6
						RVR	71.98	46	eP	47 50.00	-2.7		1.1s	48.85nm			
						PLM	72.00	47	P	47 52.80	-0.3	NAI	146.18	245	ePKP	56 19.00	10.1X
								pP	48 03.60	35km		CDF	146.35	359	ePKP	56 08.10	0.1
						SBB	72.04	46	eP	47 53.00	-0.1		1.2s	71.40nm			
						FRI	72.05	43	eP	47 52.90	-0.1	HAU	146.76	0	ePKP	56 09.10	0.5
								eP	48 03.90	36km			1.2s	59.50nm			
						CMB	72.21	41	eP	47 54.00	-0.1	FEL	146.87	358	ePKP	56 22.00	13.1X
								eP	48 05.00	36km		LOR	147.42	3	ePKP	56 10.70	1.0
						WDC	72.40	38	eP	47 55.00	-0.1		1.4s	63.15nm			
								eP	48 06.30	37km		SSF	147.60	4	ePKP	56 11.40	1.5
						ORV	72.41	40	eP	47 54.80	-0.4		1.4s	104.55nm			
								eP	48 06.00	37km		MFF	147.67	9	ePKP	56 11.20	1.1
						CLC	72.81	45	eP	47 57.00	-0.6		1.2s	35.70nm			
						MIN	72.82	39	eP	47 57.00	-0.7	LBF	147.71	3	ePKP	56 11.70	1.5
								eP	48 09.00	40km			1.2s	56.55nm			
						TPC	72.97	47	eP	47 58.00	-0.6	AVF	147.86	4	ePKP	56 11.80	1.5
						GSC	73.07	46	eP	47 59.00	-0.2		1.0s	32.00nm			
						GLA	73.30	48	eP	48 00.00	-0.5	PTJ	147.89	348	ePKP	56 12.20	1.6
						KVN	74.26	42	P	48 05.50	-0.7	ZAG	147.96	348	iPKPc	56 25.60	15.1X
								pP	48 17.10	39km		SMF	148.04	4	ePKP	56 12.20	1.5
						TNP	74.30	43	P	48 06.00	-0.5		1.0s	28.00nm			
							1.0s	20.00nm			5.1mb	LSF	148.23	7	ePKP	56 12.60	1.6
								pP	48 17.00	36km			1.0s	42.00nm			
						SPA	75.42	180	iPc	48 06.10	-6.3X	TCF	148.27	6	ePKP	56 13.00	1.9X
							1.1s	34.52nm			5.2mb		1.3s	28.90nm			
								i	48 20.40			MAF	148.37	5	ePKP	56 13.50	2.3X
						PMR	78.41	12	e(P)	48 28.30	-0.4		1.2s	50.60nm			
							1.4s	62.50nm			5.4mb	LPL	149.25	360	ePKP	56 16.60	3.7X
						TTA	78.53	8	eP	48 29.40	-0.1		1.2s	32.75nm			
						PNT	79.40	32	eP	48 34.00	-0.4	LPG	149.27	360	ePKP	56 16.80	3.8X
							0.7s	8.00nm			4.8mb		1.2s	50.60nm			
						TOA	79.47	13	e(P)	48 37.50	2.8	CAF	149.60	6	ePKP	56 16.60	3.4X
						PV09	79.99	46	P	48 38.30	0.0		1.2s	35.70nm			
								pP	48 50.60	41km		SKO	149.92	338	iPKP	56 16.00	2.3X
						ALO	80.33	50	eP	48 38.80	-1.2			i	56 28.50		
							1.1s	10.13nm			4.7mb	VAY	150.05	335	ePKP	56 16.70	2.8X
						Z	22s	0.56um			4.9msz	SBF	150.90	359	ePKP	56 20.40	5.2X
								e	48 50.00				1.2s	35.70nm			
						ANMO	80.33	50	P	48 39.50	-0.5	FRF	151.21	360	ePKP	56 20.00	4.4X
								pP	48 50.50	36km			1.2s	29.75nm			
						LRM	81.44	38	eP	48 45.20	-0.5	LMR	151.44	0	ePKP	56 20.70	4.8X
						FBA	81.68	11	eP	48 44.50	-1.7		1.0s	20.00nm			
						BW06	81.72	42	P	48 46.00	-1.2	PGF	152.14	356	ePKP	56 22.00	4.8X
								pP	48 58.00	40km			1.0s	24.00nm			
						GOL	83.14	46	P	48 55.00	0.3						
							1.0s	12.50nm			5.0mb						
						GLD	83.27	46	P	48 57.00	1.8						
							1.0s	50.00nm			5.6mb						
						EDM	84.86	32	eP	49 02.50	-0.2						

S.D. = 1.1 on 65 of 102 obs.

* AUG 03, 1990 08h 43m 05.32±2.50s
31.875 S ±10.1km 72.196 W ±21.4km
DEPTH = 10.0km (geophysicist)

[illegible]

		i	24	28.30			pP	25	28.00	56kmX	TBT	77.18	299 eP	26	58.50	0.3	
CALN	52.34	296 P	24	15.86	-1.1	TRT	60.57	148 iPc	25	09.20	-6.4X		e	27	09.20		
SSF	52.51	302 iPd	24	16.90	-1.0		0.8s	21.80nm		5.3mb		FFC	77.52	4 iPd	26	59.10	-0.5
SMF	52.54	301 iPd	24	17.50	-0.7	GUD	60.77	299 iPd	25	16.40	-0.6		0.7s	307.00nm		6.4mb	
FRF	52.60	296 iPd	24	18.10	-0.5	EMON	60.81	304 iPd	25	16.70	-0.4	CHIE	77.91	298 eP	27	13.20	11.0X
GRC	52.63	302 P	24	17.68	-1.1	SVW	60.86	29 iPc	25	18.20	1.0	EDM	78.00	11 iPd	27	01.90	-0.4
AVF	52.74	301 iPd	24	18.70	-1.0	MKS	61.01	140 ePc	25	18.50	-0.1		0.7s	395.00nm		6.6mb	
LMR	52.81	296 iPd	24	19.60	-0.6	EVIA	61.07	297 iPd	25	18.90	-0.1	RAB	78.12	110 eP	27	03.50	0.0
	1.6s	310.95nm		6.0mb		TOL	61.19	299 iPd	25	19.03	-0.7	PMG	79.10	117 eP	27	08.00	-0.8
LRG	52.83	296 iPd	24	19.90	-0.4		1.2s	781.25nm		6.7mb		MEKA	80.13	150 eP	27	13.00	-1.1
	1.4s	226.55nm		5.9mb				ePd	25	28.96	32kmX	PGC	80.67	19 eP	27	18.00	1.3
BGF	53.16	301 iPd	24	22.10	-0.7			eS	33	38.21			0.9s	229.00nm		6.2mb	
BRW	53.26	21 eP	24	23.00	-0.1	ERUA	61.37	302 iPd	25	20.90	0.0	WB5	80.72	134 iPc	27	07.00	-10.3X
AGO	53.28	301 P	24	22.34	-1.3	STS	61.85	304 eP	25	24.10	0.0	WRA	80.76	134 Pc	27	17.20	-0.4
MAF	53.51	301 iPd	24	24.90	-0.4	MVO	62.10	301 iPd	25	25.30	-0.6		0.8s	246.80nm		6.3mb	
PYM	53.52	300 P	24	24.77	-0.7			i	25	41.30		PNT	80.80	16 eP	27	18.00	0.5
SMY	53.56	49 eP	24	24.80	-0.8	EBAN	62.15	297 iPd	25	25.90	-0.3		0.7s	190.00nm		6.2mb	
	0.9s	389.00nm		6.4mb		EPLA	62.27	300 iPd	25	26.70	-0.3	KRI	81.20	233 iPc	27	14.30	-5.8X
Z	18s	5.33um		5.6MsZ		EZAM	62.41	303 iPd	25	27.90	0.0			ipP	27	26.90	42kmX
LBL	53.67	300 P	24	25.73	-0.7	PMR	62.50	26 iPc	25	27.10	-1.0	GMW	81.85	19 P	27	24.70	1.7
TCF	53.68	301 iPd	24	26.00	-0.6		0.9s	120.50nm		6.0mb		RMW	82.14	18 P	27	25.50	0.9
LDF	53.70	305 iPd	24	25.80	-0.9		Z	18s	9.52um	6.0MsZ		NEW	82.26	15 iPd	27	26.00	0.9
YRH	53.73	311 iPd	24	26.00	-0.9	ECOG	62.59	296 e(P)	25	28.60	-0.7		1.0s	168.50nm		6.0mb	
FLN	53.81	305 iPd	24	26.60	-0.8	AFC	62.59	296 iPd	25	27.90	-1.4	CBM	82.61	342 ePc	27	27.50	0.6
	0.9s	255.95nm		6.2mb		ASMO	62.64	296 iPc	25	28.70	-0.9			pP	27	38.00	33kmX
LSF	54.09	302 iPd	24	28.60	-1.0	ACHM	62.86	296 iPc	25	30.40	-0.6	BMW	82.77	19 P	27	29.50	1.6
GRR	54.22	305 iPd	24	29.60	-0.9	APHE	62.88	296 iPd	25	30.00	-1.2	LON	82.82	18 P	27	29.00	0.9
DMU	54.28	313 eP	24	30.50	-0.3	MTE	62.89	301 iPd	25</								

03d 12h

LOMF	34.44 307 P	03 57.35 -1.0	CHTO	47.33 94 eP	05 42.60 -1.9	CHTO	39.60 311 eP	06 27.60 0.9
BSF	34.55 308 eP	03 57.00 -2.3		0.7s 2.06nm	05 47.90 4.2mb		1.0s 33.00nm	07 03.00 5.0mb
	1.1s 19.55nm	4.9mb		pP	05 47.90 18kmX	MAT	44.46 10 eP	07 03.00 -3.0X
HAU	34.87 308 eP	03 59.60 -2.4	KMI	47.88 84 eP	05 49.00 0.0		1.0s 29.00nm	07 37.50 4.9mb
	1.0s 12.00nm	4.8mb	XAN	50.03 71 P	06 04.70 -0.5	BJI	48.67 347 eP	07 37.50 -1.4
WTS	35.51 315 eP	04 08.00 0.7	HHC	50.39 62 eP	06 08.00 0.1	GTA	53.91 332 P	08 17.20 -1.3
	1.0s 52.00nm	5.4mb	Z	20s 1.60um	5.0msz	GUN	54.61 312 Pc	08 23.20 -0.9
HFS	35.54 331 eP	04 06.10 -1.4	GYA	50.66 81 P	06 09.40 -0.8	PKI	54.78 311 Pc	08 24.20 -1.0
	0.9s 49.10nm	5.4mb	TIY	51.78 65 eP	06 19.20 0.7		0.6s 31.00nm	5.3mb
MEM	35.64 313 P	04 10.70 2.3	Z	20s 1.50um	5.0msz	KKN	54.99 311 Pc	08 25.60 -1.0
ENN	35.73 313 eP	04 10.50 1.4	E	13s 0.40um		GKN	55.59 311 Pc	08 30.00 -0.8
	1.0s 19.00nm	5.0mb	KRI	52.42 203 iPd	06 20.90 -2.6	WMO	63.27 327 P	09 22.90 -0.2
LBF	36.31 306 eP	04 11.80 -2.4	BJI	54.00 62 eP	06 35.00 0.3	BSF	116.90 320 ePKP	17 35.70 -1.2
SMF	36.36 306 eP	04 12.40 -2.2	WHN	55.50 73 eP	06 48.60 2.8X	LPG	117.71 318 ePKP	17 38.50 -0.2
	1.0s 48.00nm	5.4mb	KIC	55.68 254 P	06 46.86 -0.5		0.6s 2.70nm	
DOU	36.41 312 Pd	04 16.00 1.1	CIR	55.78 199 iPc	06 38.50 -9.4X	LPL	117.72 318 ePKP	17 38.40 -0.3
LOR	36.42 307 eP	04 12.70 -2.4	TIA	55.81 66 Pd	06 48.60 0.6		0.6s 2.70nm	
SSF	36.64 306 eP	04 14.80 -2.1	BUL	55.84 202 iP	06 48.50 0.0	LOR	118.96 321 ePKP	17 40.60 -0.1
	1.0s 27.00nm	5.1mb	LIC	55.99 254 P	06 49.08 -0.5	LBF	118.99 320 ePKP	17 40.40 -0.4
SNF	36.69 312 P	04 18.30 1.1		0.7s 14.00nm	5.1mb		0.6s 1.80nm	
AVF	36.71 306 eP	04 15.40 -2.1	IPM	56.61 108 ePc	06 54.50 0.5	SMF	119.20 320 ePKP	17 41.00 -0.2
	1.0s 24.00nm	5.1mb	CN2	59.59 55 eP	07 13.20 -1.2		0.7s 2.75nm	
ESEL	36.89 294 eP	04 21.00 1.9	MCB	70.98 357 eP	08 27.00 -0.3	SSF	119.26 320 ePKP	17 41.20 0.0
SOD	36.89 346 iP	04 19.30 0.6		0.7s 16.00nm	5.1mb		0.6s 2.70nm	
BGF	37.04 305 eP	04 18.20 -2.0	FRB	71.72 335 eP	08 32.00 0.0	AVF	119.46 320 ePKP	17 41.00 -0.6
	1.0s 13.00nm	4.8mb	INK	79.24 1 eP	09 15.00 0.6	BGF	119.87 320 ePKP	17 42.50 0.1
NB2	37.06 331 P	04 18.40 -1.9	IMA	80.05 9 eP	09 19.20 0.0		0.6s 5.85nm	
	1.0s 13.10nm	4.8mb		0.7s 7.10nm	4.7mb	TCF	120.38 320 ePKP	17 43.60 0.2
MAF	37.20 305 eP	04 20.10 -1.5	FBA	81.86 7 eP	09 29.10 0.6	ALO	122.12 53 ePKP	17 48.00 0.7
	1.0s 18.00nm	4.9mb	TTA	82.69 11 P	09 34.00 1.1	KIC	134.31 272 (PKP)	18 12.40 1.4
TCF	37.45 305 eP	04 22.20 -1.6	PMR	84.93 8 P	09 46.00 1.8	LIC	134.58 272 (PKP)	18 13.00 1.5
	1.0s 12.00nm	4.8mb		1.0s 12.50nm	5.0mb	CNCB	150.57 145 PKP	18 42.00 2.3X
CAF	37.47 303 eP	04 22.20 -1.7	ZOBO	120.60 270 ePKP	16 06.00 3.3X		i	18 47.30
	1.1s 9.75nm	4.6mb	LPB	120.70 269 PKP	16 04.00 1.3	ZOBO	150.92 144 PKP	18 43.30 3.1X
RJF	37.87 303 eP	04 25.90 -1.4	CNCB	120.73 269 ePKP	16 05.00 2.1	CCH	151.11 148 (PKP)	18 39.00 -1.2
	1.0s 10.00nm	4.7mb		S.D. = 1.2 on 221 of 247 obs.			S.D. = 1.1 on 40 of 51 obs.	
LFF	38.41 303 eP	04 30.20 -1.6						
	1.0s 14.00nm	4.8mb						
EROD	38.72 296 eP	04 36.00 1.5						
KEV	38.90 348 eP	04 38.00 2.5						
MFF	39.10 305 eP	04 35.30 -2.2						
	0.9s 13.10nm	4.7mb						
LDF	39.23 308 eP	04 36.30 -2.3						
	0.8s 9.40nm	4.7mb						
FLN	39.49 309 eP	04 38.40 -2.3						
	0.9s 19.65nm	4.9mb						
GRR	39.70 308 eP	04 40.20 -2.3						
	1.0s 38.00nm	5.2mb						
LPF	39.80 307 eP	04 40.90 -2.4						
	1.1s 29.30nm	5.0mb						
ECHE	39.88 294 eP	04 46.50 2.4						
ETOR	40.59 296 eP	04 51.40 1.4						
EVIA	41.18 293 eP	04 56.80 1.9						
GTA	41.76 66 P	05 00.00 0.3						
	0.8s 13.00nm	4.7mb						
Z	16s 1.80um	5.0msz						
N	16s 1.00um							
EKA	42.05 318 Pc	05 01.70 0.0						
	1.2s 22.80nm	4.8mb						
GUD	42.19 296 eP	05 04.60 1.4						
TOL	42.20 295 iPc	05 05.00 1.8						
EBAN	42.24 292 eP	05 04.50 1.0						
ASMO	42.34 291 eP	05 05.50 1.0						
APHE	42.37 291 eP	05 07.00 2.3						
YRH	42.53 314 eP	05 06.00 0.3						
ATEJ	42.63 291 eP	05 08.20 1.3						
AAPN	42.65 291 eP	05 08.00 1.0						
ALOJ	42.67 291 eP	05 08.20 1.0						
MAL	42.98 291 iPc	05 10.50 1.0						
ETA	43.48 314 eP	05 12.70 -0.6						
ECP	43.53 313 eP	05 13.50 -0.2						
	1.0s 95.00nm	5.5mb						
EPLA	43.72 296 eP	05 16.60 1.0						
DLE	43.73 315 eP	05 14.50 -0.9						
	1.0s 60.00nm	5.3mb						
DCN	44.17 315 eP	05 19.70 0.7						
IFR	44.25 286 iPd	05 22.00 1.9						
	i	05 23.00						
MVO	44.29 297 eP	05 20.80 0.6						
MTE	44.78 296 eP	05 26.00 1.9						
LZH	45.49 70 eP	05 30.50 0.6						
	1.2s 57.00nm	5.3mb						
	22s 2.70um	5.1msz						
N	17s 1.20um							
AVE	46.16 287 eP	05 45.00 10.0X						
TIO	46.70 283 eP	05 41.00 1.5						
CD2	46.76 77 eP	05 40.00 0.1						

E 15s 0.90um
S 54 52.00
LZH 32.92 292 eP 50 04.50 -1.4
2.0s 21.00nm 4.7mb
Z 22s 1.00um 4.5msz
N 13s 0.40um
E 13s 0.60um
eS 55 15.00
CD2 33.27 283 eP 50 08.00 -0.8
Z 16s 0.90um 4.6msz
N 14s 2.20um
KMI 35.30 273 Pc 50 26.50 0.0
1.5s 70.00nm 5.4mb
Z 18s 1.40um 4.8msz
PP 50 36.00
S 56 00.00
GTA 36.23 298 eP 50 33.20 -1.0
0.8s 6.00nm 4.6mb
LOE 38.87 262 P 50 56.00 -0.3
CHTO 40.71 265 iPc 51 11.70 0.1
1.2s 37.85nm 5.0mb
pP 51 19.10 25kmx
sP 51 26.10
BDT 41.30 263 eP 51 16.80 0.5
WMO 45.44 304 P 51 51.20 1.4
Z 20s 1.10um 4.8msz
GUN 49.14 283 P 52 20.00 0.7
WB5 49.39 190 iPc 52 17.50 -3.3X
eS 59 04.30
WRA 49.46 190 P 52 24.00 2.7
0.7s 12.40nm 5.0mb
OIS 49.54 183 eP 52 19.00 -2.9
PKI 49.63 283 P 52 22.80 -0.3
KKN 49.68 283 P 52 23.40 0.1
DMN 49.88 283 P 52 25.00 0.1
GKN 50.17 283 P 52 27.00 0.0
TTA 51.59 31 P 52 35.50 -1.7
IMA 53.18 27 P 52 48.00 -1.0
ASPA 53.18 190 eP 52 47.50 -1.9
0.8s 8.00nm 4.8mb
Z 22s 0.67um 4.6msz
LR 13 17.50
PMR 54.62 33 P 52 57.50 -2.0
0.8s 7.76nm 4.8mb
NDI 56.24 287 iPc 53 12.00 0.3
GBA 61.65 270 Pd 53 49.10 -0.3
0.7s 6.80nm 4.9mb
MBC 63.84 15 eP 54 03.50 0.5
QUE 64.24 292 eP 54 07.10 0.6
MAIO 67.98 300 eP 54 33.00 2.7
eS 02 52.00
KEV 71.02 341 eP 54 51.00 2.8
SOD 72.47 339 eP 54 55.00 -1.9
PNT 73.36 43 eP 55 02.00 -0.4
FHC 74.17 52 eP 55 01.20 -6.1X
WDC 75.26 52 eP 55 06.00 -7.5X
NEW 75.30 43 P 55 12.80 -0.9
1.0s 10.00nm 4.7mb
LBFM 75.37 51 P 55 14.00 -0.4
BRK 76.65 54 eP 55 20.20 -1.2
NUR 77.22 333 eP 55 40.00 15.9X
SES 77.74 39 eP 55 28.00 0.8
pP 55 40.00 40km
CMB 77.90 53 eP 55 28.20 -0.2
PRS 77.98 55 eP 55 29.50 0.7
LLA 78.15 55 eP 55 30.80 1.0
PRI 78.57 55 eP 55 34.20 2.0
FRI 78.86 54 eP 55 34.00 0.4
KVN 79.00 51 P 55 33.70 -0.9
LRM 79.28 43 eP 55 35.70 -0.4
SYP 79.83 56 eP 55 40.00 0.9
FFC 79.91 32 eP 55 39.00 0.1
0.7s 8.00nm 4.8mb
TNP 80.07 52 P 55 40.00 -0.4
1.0s 5.42nm 4.5mb
CLC 80.91 54 eP 55 45.00 0.3
SBB 81.30 55 eP 55 47.00 0.2
HFS 81.52 337 eP 55 47.20 -0.1
0.6s 6.30nm 4.8mb
Z 17s 0.37um 4.8msz
LR 28 54.00
NB2 81.69 338 P 55 48.80 0.6
0.6s 4.60nm 4.7mb
GSC 81.73 54 eP 55 49.00 0.0
GLA 84.28 55 eP 56 03.00 0.9
KRA 86.00 327 eP 56 10.80 0.5
e 56 23.80 43km

SLR 122.03 256 ePd 58 35.00 -18.8X
ZOBO 149.25 72 PKP 03 17.00 1.3
Z 20s 0.19um 4.9msz
LR 52 20.00
LPB 149.40 72 PKP 03 11.00 -4.7X
CNCB 149.63 73 PKP 03 18.50 2.3X
S.D. = 1.2 an 69 af 77 abs.
AUG 03, 1990 16h 55m 13.48 ± 0.94s
46.035 N ± 7.2km 143.054 E ± 4.8km
DEPTH = 324.9 ± 10.3 km
4.6mb (27 abs.)
SAKHALIN ISLAND (662)
MDJ 9.59 266 iPd 57 28.60 1.3
0.8s 100.00nm 5.1mb
MAT 10.16 203 iPd 57 33.50 -0.8
0.9s 68.07nm 4.9mb
(S)
CN2 12.68 266 Pd 58 04.00 -0.8
1.0s 100.00nm 5.1mb
SNY 14.64 260 Pd 58 27.40 -0.5
1.0s 100.00nm 5.1mb
BJI 20.49 263 P 59 28.00 0.3
1.2s 81.00nm 4.9mb
TIA 21.77 252 Pc 59 42.00 1.8
HHC 23.35 269 Pd 59 56.10 0.9
1.0s 100.00nm 5.2mb
TIY 24.15 261 eP 00 03.00 0.5
BTO 24.53 269 eP 00 06.00 0.1
LZH 30.91 265 P 01 03.00 0.3
1.3s 40.00nm 4.7mb
GTA 32.13 274 iPd 01 13.60 0.4
0.8s 38.00nm 4.9mb
CD2 33.89 257 eP 01 28.20 0.1
GYA 34.85 249 P 01 35.80 -0.5
WMO 38.59 287 P 02 07.80 0.6
FBA 41.01 37 P 02 26.00 -0.6
0.8s 17.24nm 4.3mb
CHTO 45.27 248 iPd 03 01.20 0.0
0.9s 17.69nm 4.3mb
pP 03 36.50 158kmx
INK 45.92 31 eP 03 05.00 -0.7
HYT 46.53 42 P 03 09.00 -1.7
MBC 47.58 19 eP 03 18.00 -0.4
GUN 48.07 268 P 03 22.60 -0.6
KKN 48.56 269 P 03 26.60 -0.2
PKI 48.60 268 P 03 27.20 0.0
DMN 48.79 269 P 03 28.20 -0.4
GKN 48.88 269 P 03 28.80 -0.3
YKA 55.51 33 eP 04 16.40 -0.8
0.7s 9.80nm 4.3mb
QUE 59.75 283 eP 04 46.30 -0.8
SUF 60.56 332 eP 04 51.00 -0.9
0.5s 4.00nm 4.2mb
PNT 61.03 48 eP 04 55.00 -0.3
0.8s 8.00nm 4.3mb
NUR 62.65 331 iP 05 04.00 -1.6
0.6s 7.80nm 4.5mb
NEW 62.98 48 P 05 08.40 0.3
0.8s 9.90nm 4.5mb
SES 64.59 43 eP 05 19.00 0.6
LBFM 64.79 56 P 05 21.00 1.0
FFC 65.56 35 iPc 05 24.80 0.4
0.7s 20.00nm 5.0mb
WB5 66.07 189 eP 05 26.80 -1.1
WRA 66.14 189 Pc 05 27.40 -0.9
0.5s 1.00nm 3.8mb
NB2 66.39 337 P 05 28.30 -1.3
0.7s 1.70nm 3.9mb
HFS 66.42 335 eP 05 28.40 -1.4
0.6s 4.30nm 4.4mb
BRK 66.83 59 eP 05 28.70 -3.9X
LRM 66.99 47 eP 05 34.50 0.6
CMB 67.83 58 eP 05 39.70 0.8
KVN 68.49 56 P 05 43.80 0.7
TNP 69.65 56 P 05 51.00 0.8
0.8s 11.52nm 4.7mb
BW06 70.60 48 P 05 56.00 0.2
CLL 73.91 330 iP 06 14.80 0.2
0.9s 11.00nm 4.6mb
ANMO 77.95 52 P 06 39.00 1.4
CDF 78.33 332 eP 06 39.00 -0.2
BSF 78.99 332 eP 06 42.30 -0.5
LOR 80.43 333 eP 06 49.80 -0.5
0.9s 6.55nm 4.5mb
LBF 80.65 333 eP 06 41.00 -10.4X

0.9s 4.90nm
SSF 80.73 333 eP 06 51.50 -0.3
0.8s 4.05nm 4.3mb
SMF 80.99 333 eP 06 53.00 -0.2
1.0s 11.00nm 4.6mb
AVF 81.02 333 eP 06 53.20 -0.1
0.9s 6.55nm 4.5mb
LPF 81.20 337 eP 06 54.40 0.2
MAF 81.77 333 eP 06 57.80 0.6
0.9s 10.65nm 4.7mb
TCF 81.82 334 eP 06 57.70 0.2
LSF 82.06 334 eP 06 59.00 0.3
MFF 82.24 335 eP 07 00.10 0.5
CAF 83.09 333 eP 07 04.90 0.9
0.8s 5.35nm 4.4mb
LFF 83.48 334 eP 07 06.80 0.9
LPO 83.58 334 eP 07 07.30 0.9
S.D. = 0.8 an 58 af 60 abs.
* AUG 03, 1990 17h 10m 49.28 ± 2.40s
31.782 S ± 10.6km 72.108 W ± 20.0km
DEPTH = 33.0km (normal)
OFF COAST OF CENTRAL CHILE (134)
ROCH 1.51 142 iPd 11 13.80 -0.7
iS 11 33.80
JACH 1.57 125 iPc 11 14.60 -0.6
iS 11 33.50
LCCH 1.75 165 iPd 11 18.20 0.5
iS 11 42.00
PEL 1.81 139 iPc 11 18.20 -0.6
iS 11 45.50
SAN 2.07 144 eP 11 19.00 -3.4X
iS 11 48.50
TACH 2.11 152 iPc 11 23.00 0.0
i 11 53.50
FCH 2.18 136 iPd 11 23.50 -0.7
iS 11 50.90
LNV 2.25 165 iPd 11 25.70 0.9
i 11 57.00
RTBS 2.27 88 ePc 11 25.20 0.1
PCH 2.27 144 eP 11 25.00 -0.4
iS 11 55.00
CHCH 2.47 151 eP 11 28.00 -0.2
i 12 04.00
RTRS 2.78 55 ePc 11 31.90 -0.6
eS 12 06.90
RTCB 2.84 85 iPd 11 33.10 -0.2
ZON 2.93 86 eP 11 36.00 1.3
eS 12 09.00
MDZ 2.97 113 eP 11 36.70 1.5
i 11 40.60
iS 12 15.30
RTCV 3.04 92 e(P) 11 37.00 0.8
RTLL 3.14 83 ePd 11 37.00 -0.6
eS 12 16.40
CFA 3.30 88 ePd 11 39.50 -0.4
e 11 41.90
eS 12 18.80
S.D. = 0.8 an 17 af 18 abs.
* AUG 03, 1990 17h 26m 39.15 ± 3.16s
31.815 S ± 11.8km 72.470 W ± 26.4km
DEPTH = 12.4 ± 3.1 km
OFF COAST OF CENTRAL CHILE (134)
ROCH 1.69 133 iPc 27 07.80 -1.0
iS 27 28.00
JACH 1.81 119 iPd 27 00.90 -9.5X
iS 27 29.00
LCCH 1.82 156 iPd 27 11.00 0.5
iS 27 31.50
PEL 2.01 132 iPc 27 12.50 -0.7
SAN 2.24 137 eP 27 15.50 -1.0
i 27 43.80
i 27 45.50
TACH 2.24 145 eP 27 17.20 0.6
i 27 50.50
LNV 2.31 158 iPc 27 17.60 0.0
i 27 51.00
FCH 2.38 130 iPd 27 18.50 -0.3
iS 27 45.60
PCH 2.44 138 iPc 27 19.50 0.0
RTBS 2.57 87 ePc 27 21.50 0.2
CHCH 2.61 145 eP 27 22.30 0.5
i 27 50.40
iS 27 52.50

03d 17h

RTRS 3.06 58 ePc 27 27.90 -0.2
 ZON 3.24 86 eP 27 31.00 0.2
 MDZ 3.24 110 eP 27 32.40 1.5
 RTCV 3.35 92 e(P) 27 32.80 0.5
 RTLL 3.45 83 ePc 27 33.20 -0.5
 CFA 3.61 88 ePd 27 35.80 -0.3
 eS 28 24.00

S.D. = 0.7 on 16 of 17 obs

% AUG 03, 1990 17h 27m 58.41 ± 0.80s
 40.334 N ± 9.3km 29.471 E ± 6.1km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

IZI 0.00 33 iPg 27 59.20 -1.1
 GPA 0.64 94 ePg 28 11.40 0.1
 DST 0.97 222 iPn 28 17.60 0.6
 CTT 1.13 316 iPn 28 20.20 0.6
 BNT 1.19 272 ePn 28 20.20 -0.3
 EDC 1.23 271 iPn 28 20.80 -0.5
 ALT 1.37 159 ePn 28 26.00 2.4X

S.D. = 0.9 on 6 of 7 obs.

* AUG 03, 1990 18h 12m 26.36 ± 1.32s
 6.828 S ± 10.6km 130.581 E ± 19.6km
 DEPTH = 135.0 ± 13.8 km
 4.4mb (6 obs.)

BANDA SEA (280)

AAI 3.92 323 eP 13 26.00 0.0
 MTN 6.01 175 iPd 13 55.00 0.9
 KNA 9.04 191 iPc 14 34.00 -1.1
 WRA 13.54 165 Pc 15 31.90 -2.3
 OIS 16.21 148 eP 16 09.00 1.2
 ASPA 17.04 170 iPd 16 18.70 0.7
 0.6s 22.00nm 4.6mb
 MBL 17.64 215 eP 16 26.20 1.0
 0.3s 2.00nm 3.9mb
 CHTO 40.27 310 eP 19 52.60 0.8
 0.7s 1.11nm 3.7mb
 GUN 55.28 311 P 21 48.50 0.0
 0.4s 11.00nm 5.1mb
 PKI 55.45 310 P 21 49.30 -0.5
 KKN 55.66 310 P 21 50.90 -0.3
 DMN 55.70 310 P 21 51.40 -0.1
 GKN 56.26 310 P 21 55.20 -0.2
 0.4s 6.00nm 4.9mb

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

? AUG 03, 1990 18h 23m 46.19 ± 6.04s
 31.329 S ± 15.3km 71.134 W ± 50.9km
 DEPTH = 24.3 ± 8.2 km

NEAR COAST OF CENTRAL CHILE (135)

RTBS 1.47 103 e(P) 24 11.50 0.2
 (S) 24 38.20
 RTRS 1.85 52 ePc 24 16.80 0.0
 RTCB 2.00 95 eP 24 18.50 -0.7
 RTCV 2.28 104 e(P) 24 23.20 0.2
 RTLL 2.28 91 e(P) 24 23.00 -0.1
 MDZ 2.48 129 eP 24 25.90 -0.1
 iS 25 04.60
 CFA 2.49 97 e(P) 24 26.50 0.4

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

AUG 03, 1990 18h 46m 24.73 ± 1.05s
 11.278 N ± 7.1km 122.136 E ± 7.5km
 DEPTH = 57.3 ± 12.4 km
 4.8mb (5 obs.) 4.3msz (2 obs.)

PANAY, PHILIPPINE ISLANDS (254)

PLP 2.79 92 iPc 47 09.00 1.1
 iS 47 38.00
 PPR 3.67 246 iPd 47 20.00 -0.2
 iS 48 14.00
 CGP 3.77 138 eP 47 21.00 -0.7
 CVP 6.40 357 eP 47 41.50 -17.1X
 eS 48 10.50
 SZP 6.45 346 eP 47 40.00 -19.3X
 KKM 7.83 229 eP 48 21.50 2.9X
 TSM 8.08 210 eP 48 23.60 1.6

OIZ 14.14 304 eP 49 41.60 -2.1
 E 10s 0.60um
 WHN 20.49 340 eP 51 02.00 1.6
 SP 51 15.00
 PcP 55 07.00
 LOE 20.68 289 eP 51 07.50 5.0X
 NJ2 20.89 352 eP 51 03.50 -1.0
 GYA 21.00 318 P 51 06.60 0.8
 N 15s 0.80um
 E 15s 0.50um

TRT 21.09 207 ePc 51 05.40 -1.2
 NST 21.83 284 eP 51 13.50 -0.6
 KMI 22.96 309 Pc 51 28.00 2.6X
 Z 16s 0.80um 4.3mszX
 PP 51 33.00
 eS 55 31.00

CHG 23.60 291 eP 51 34.00 2.6X
 CHTO 23.60 291 eP 51 32.70 1.3
 TIA 25.23 350 eP 51 46.80 -0.1
 XAN 25.68 334 P 51 49.30 -1.8
 CD2 25.92 322 eP 51 55.00 1.6
 TIY 27.73 343 eP 52 08.00 -1.8
 Z 16s 0.70um 4.3mszX
 PcP 55 22.00

BJI 29.13 351 eP 52 28.00 5.7X
 1.5s 26.00nm 4.7mb
 Z 24s 0.32um 3.9mszX
 eS 57 26.00

LZH 29.73 329 P 52 40.50 12.5X
 2.0s 18.00nm
 Z 18s 0.50um 4.2msz
 WB5 33.22 159 eP 52 57.10 -1.4
 WRA 33.27 159 P 52 59.00 0.0
 0.4s 0.70nm 3.9mb

GTA 34.32 329 eP 53 07.20 -0.8
 Z 18s 0.60um 4.4msz
 ASPA 36.59 162 eP 53 27.20 0.0
 0.4s 4.00nm 4.7mb

GUN 37.77 301 P 53 38.40 0.8
 0.8s 66.00nm 5.6mb
 PKI 38.06 301 P 53 40.00 0.0
 KKN 38.23 301 P 53 41.60 0.3
 0.8s 23.00nm 5.1mb

DMN 38.33 300 P 53 42.00 -0.2
 GKN 38.84 301 P 53 46.60 0.3
 QUE 54.40 299 eP 55 44.76 -3.9X
 MAIO 61.40 305 eP 56 39.00 1.4
 INK 84.84 21 eP 58 55.00 1.0

S.D. = 1.2 on 26 of 35 obs.

% AUG 03, 1990 19h 04m 36.60 ± 0.86s
 37.032 N ± 7.6km 29.556 E ± 7.2km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

ELL 0.40 135 iPg 04 44.80 0.0
 iSg 04 52.80
 BCK 0.93 62 ePn 04 54.40 0.0
 YER 1.02 276 ePn 04 56.00 0.0
 KHL 1.29 359 iPn 05 00.40 -0.1
 ALT 2.07 12 ePn 05 12.00 0.1

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

? AUG 03, 1990 19h 27m 03.44 ± 1.03s
 42.999 N ± 9.6km 0.515 W ± 8.8km
 DEPTH = 10.0km (geophysicist)

PYRENEES (378)

MD 1.0 (STR).

JAU 0.11 70 Pg 27 06.70 0.2
 Sg 27 08.26
 LHE 0.12 222 Pg 27 06.31 -0.2
 eSg 27 08.93
 ATE 0.16 302 Pg 27 07.44 0.2
 Sg 27 11.21
 OGE 0.17 10 Pg 27 07.05 -0.3

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

* AUG 03, 1990 20h 52m 06.75 ± 1.32s
 6.654 S ± 13.7km 130.181 E ± 18.9km
 DEPTH = 33.0km (normal)
 4.2mb (4 obs.)

BANDA SEA (280)

MTN 6.22 171 eP 53 43.00 4.2X
 0.3s 49.00nm 5.7mb X
 KNA 9.15 189 eP 54 19.70 0.2

WB5 13.76 163 eS 55 55.00
 eP 55 21.80 -0.1
 i 55 23.80
 i 55 29.50
 iS 57 44.00
 i 57 48.20
 WRA 13.81 163 Pd 55 21.50 -1.1
 0.3s 1.60nm 4.3mb
 ASPA 17.29 168 eP 56 08.40 1.0
 0.6s 10.00nm 4.1mb

eS 59 08.10
 MBL 17.56 214 eP 56 10.50 -0.2
 STK 27.27 158 eP 57 50.40 0.3
 1.4s 72.00nm 5.1mb
 CHTO 39.86 310 eP 59 39.20 0.0
 0.7s 0.95nm 3.7mb

S.D. = 0.8 on 7 of 8 obs.

AUG 03, 1990 20h 55m 52.44 ± 1.02s
 31.815 S ± 4.6km 72.276 W ± 10.1km
 DEPTH = 55.9 ± 7.5 km
 4.3mb (7 obs.)

OFF COAST OF CENTRAL CHILE (134)

ROCH 1.57 137 iPc 56 18.20 -0.4
 JACH 1.67 122 iPd 56 18.70 -1.1
 iS 56 38.00
 LCCH 1.76 160 iPc 56 21.20 0.2
 iS 56 45.50
 PEL 1.89 135 iPc 56 22.70 -0.2
 SAN 2.13 141 iPc 56 26.10 -0.1
 iS 56 51.00
 i 56 55.20

TACH 2.15 149 iPc 56 27.50 0.9
 iS 56 53.00
 FCH 2.26 133 iPc 56 28.00 -0.3
 i 56 57.00
 LNV 2.26 161 iPc 56 27.90 -0.1
 i 57 02.50

PCH 2.33 141 iPc 56 29.00 -0.2
 RTBS 2.41 87 iPc 56 31.00 0.9
 CHCH 2.52 148 iPc 56 32.00 0.3
 iS 57 03.70
 i 57 08.50

RTRS 2.92 57 iPc 56 37.90 0.5
 RTCB 2.98 85 iPd 56 38.90 0.5
 ZON 3.08 86 iPc 56 40.80 1.0
 MDZ 3.09 111 iPc 56 41.90 2.0X
 i 56 46.70
 iS 57 22.50

RTCV 3.18 92 ePc 56 42.00 0.8
 RTLL 3.28 83 ePd 56 42.00 -0.7
 CFA 3.45 88 ePc 56 45.00 0.1
 e 56 47.00
 eS 57 23.90

ANT 8.24 12 eP 57 50.50 -1.4
 ARE 15.30 3 eP 59 24.00 -2.7X
 CCH 15.41 23 P 59 32.50 4.4X
 CNCB 15.44 16 P 59 29.00 0.2
 LPB 15.68 15 P 59 31.00 -0.7
 ZOBO 15.93 15 P 59 35.80 0.8

Z 22s 0.51um
 LR 04 44.00
 SIV 18.77 36 P 00 07.00 -2.7X
 NNA 20.18 347 eP 00 22.50 -2.6X
 0.8s 6.72nm 4.0mb

PPD 21.05 68 eP 00 36.50 2.6X
 VAO 24.08 75 eP 01 03.30 -0.5
 BMA 26.54 77 eP 01 24.50 -2.4
 e 01 38.20

BAO 27.36 60 eP 01 33.50 -0.9
 PDCR 35.99 65 (P) 02 49.00 -1.0
 SPA 58.36 180 iPc 05 42.50 -1.6
 1.1s 20.24nm 5.2mb

RSCP 68.21 348 P 06 50.50 1.4
 1.0s 43.38nm 5.4mb X
 ALQ 73.77 331 eP 07 26.00 3.3X
 1.0s 2.50nm 4.1mb

ANMO 73.77 331 P 07 26.50 3.8X
 0.8s 1.87nm 4.1mb
 LIC 74.29 72 P 07 26.86 1.0
 TIC 74.53 72 P 07 28.26 0.9
 0.8s 9.50nm 4.8mb

KIC 74.60 72 P 07 28.72 1.1
 MAW 75.33 164 iPd 07 34.80 3.8X
 GOL 77.50 334 P 07 47.00 3.2X
 0.7s 2.12nm 4.3mb

GSC 78.78 324 eP 07 55.00 4.3X
 SBB 78.81 323 eP 07 55.00 4.1X
 MSU 79.22 329 P 07 57.00 3.8X
 CLC 79.58 324 eP 08 09.00 14.0X
 DAU 80.41 331 P 08 03.00 3.3X
 TNP 81.18 326 P 08 07.80 4.2X
 0.8s 4.36nm 4.5mb
 BLF 81.71 119 eP 08 20.50 13.8X
 LLA 81.90 322 eP 08 13.00 5.8X
 KVN 82.37 326 P 08 13.60 3.8X
 SEK 83.19 119 eP 08 28.50 14.1X
 PRY 83.82 118 eP 08 21.00 3.4X
 KSR 83.95 117 eP 08 17.20 -1.1
 BPI 84.65 117 eP 08 23.40 1.6
 SLR 85.08 117 eP 08 25.10 1.2
 EVA 85.26 118 eP 08 38.60 13.8X
 BFT 86.43 118 eP 08 33.50 2.8X
 BUL 88.37 113 iPd 08 41.00 1.0
 KRI 90.98 110 iPc 08 50.60 -1.6
 WRA 122.56 210 PKPd 14 46.70 3.1X
 0.7s 1.50nm
 WB5 122.60 210 ePKP 14 47.00 3.3X
 QUE 145.15 82 ePKP 15 28.30 2.6X
 GBA 146.87 116 PKP 15 33.20 4.6X
 HYB 149.97 112 ePKPc 15 41.50 8.0X
 S.D. = 1.0 on 35 of 63 obs.

% AUG 03, 1990 21h 53m 04.35 ± 0.85s
 26.259 S ± 6.8km 27.328 E ± 7.3km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 2.1 (PRE).

KSR 0.55 315 eP 53 15.20 -0.2
 S 53 26.00
 BPI 0.64 83 eP 53 16.00 -1.1
 S 53 22.40
 PRY 0.68 169 eP 53 17.80 -0.2
 S 53 24.50
 SLR 1.00 59 eP 53 24.00 0.1
 S 53 37.00
 EVA 1.59 99 eP 53 43.70 10.3X
 S 53 58.00
 SEK 2.07 173 eP 53 40.50 0.1
 S 54 04.50
 BFT 2.51 77 eP 53 48.00 1.3
 S 54 15.50
 S.D. = 1.0 on 6 of 7 obs.

? AUG 03, 1990 22h 06m 57.54 ± 2.94s
 31.795 S ± 13.7km 72.315 W ± 26.6km
 DEPTH = 76.9 ± 23.1 km
 OFF COAST OF CENTRAL CHILE (134)

PEL 1.93 135 iPc 07 27.90 -1.0
 RTBS 2.44 88 ePc 07 36.00 0.0
 RTRS 2.94 57 iPc 07 42.50 -0.3
 RTCB 3.01 85 iPc 07 44.00 0.0
 ZON 3.11 86 eP 07 46.00 0.7
 MDZ 3.13 111 iP 07 47.30 1.7
 i 07 50.80
 iS 08 29.90
 RTCV 3.22 92 e(P) 07 47.20 0.4
 RTLL 3.31 83 ePc 07 47.10 -1.1
 CFA 3.48 88 ePd 07 50.10 -0.4
 eS 08 39.20
 CNCB 15.43 16 P 10 41.00 8.4X
 LPB 15.67 15 P 10 43.00 7.4X
 ZOBO 15.92 15 P 10 40.00 1.1
 SIV 18.77 36 P 11 12.00 -1.4
 BAO 27.37 60 eP 12 38.00 0.3
 GBA 146.90 116 PKPc 26 38.30 7.2X
 0.5s 3.10nm
 S.D. = 1.1 on 12 of 15 obs.

% AUG 03, 1990 22h 36m 25.37 ± 0.88s
 42.652 N ± 7.7km 12.024 E ± 7.5km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)

MNS 0.55 119 P 36 37.00 0.4
 eSg 36 45.50
 ASS 0.63 48 Pd 36 37.40 -0.6
 eSg 36 48.00
 MAO 0.69 250 P 36 38.70 -0.3
 eSg 36 49.60
 CRE 0.98 357 P 36 44.10 0.1

eSg 36 57.90
 PGD 1.24 350 P 36 49.00 0.4
 S.D. = 0.6 on 5 of 5 obs.

* AUG 03, 1990 23h 52m 18.26 ± 1.31s
 31.705 S ± 7.2km 72.122 W ± 13.6km
 DEPTH = 62.7 ± 15.1 km

OFF COAST OF CENTRAL CHILE (134)

ROCH 1.57 144 iPd 52 44.00 -0.7
 i 53 05.50
 JACH 1.62 127 iPd 52 43.60 -1.6
 i 53 04.50
 LCCH 1.83 165 iPd 52 47.50 -0.4
 iS 53 16.20
 PEL 1.88 140 iPd 52 48.50 -0.2
 SAN 2.13 145 iPc 52 53.80 1.5
 i 53 20.90
 TACH 2.18 153 iP 52 53.40 0.4
 iS 53 27.50
 FCH 2.24 137 iPc 52 53.60 -0.4
 i 53 24.50
 RTBS 2.28 90 ePd 52 55.00 0.8
 LNV 2.32 165 iPc 52 54.10 -0.7
 i 53 32.50
 PCH 2.34 145 eP 52 55.20 -0.1
 iS 53 30.00
 CHCH 2.54 151 eP 52 58.50 0.5
 iS 53 35.60
 RTRS 2.75 57 iPc 53 00.60 -0.3
 RTCB 2.84 86 iPc 53 02.50 0.2
 ZON 2.94 88 eP 54 05.00 61.3X
 MDZ 3.01 114 iP 53 06.60 2.0
 i 53 10.00
 iS 53 49.00
 RTCV 3.06 94 e(P) 53 06.00 0.7
 (S) 53 45.30
 RTLL 3.14 84 iPc 53 06.10 -0.4
 CFA 3.31 89 ePd 53 07.90 -1.0
 e 53 10.00
 eS 53 50.50
 ANT 8.11 11 e(P) 54 27.50 11.7X
 CNCB 15.30 15 P 55 55.00 2.5
 LPB 15.54 15 P 55 56.00 0.6
 ZOBO 15.79 14 P 55 58.00 -0.7
 Z 20s 0.18um
 LR 01 16.00

SIV 18.60 35 P 56 30.20 -2.9
 PPD 20.88 68 (P) 56 58.00 0.5
 BAO 27.19 60 eP 57 57.00 -1.1
 KIC 74.44 72 (P) 03 52.50 0.7
 GBA 146.80 116 PKP 11 57.00 3.5X
 0.6s 3.50nm
 S.D. = 1.2 on 24 of 27 obs.

* AUG 04, 1990 00h 32m 50.64 ± 0.79s
 38.278 N ± 9.6km 25.017 E ± 7.7km
 DEPTH = 28.0km (geophysicist)
 AEGEAN SEA (365)
 ML 3.1 (ATH).

ATH 1.07 254 ePn 33 11.00 1.2
 eSn 33 25.50
 APE 1.27 161 ePn 33 12.00 -0.7
 eSn 33 33.20
 PRK 1.38 45 ePb 33 14.70 0.6
 SMG 1.55 111 ePn 33 16.60 0.0
 NEO 1.74 307 ePn 33 18.20 -1.2
 IZM 1.77 85 ePn 33 24.60 4.7X
 VLI 2.27 227 ePn 33 27.00 0.0
 EVR 2.59 285 ePb 33 38.10 6.4X
 S.D. = 1.1 on 6 of 8 obs.

* AUG 04, 1990 00h 38m 36.55 ± 0.74s
 6.868 N ± 9.5km 72.800 W ± 14.4km
 DEPTH = 150.2 ± 8.2 km
 4.5mb (3 obs.)
 NORTHERN COLOMBIA (99)

BMG 0.34 306 eP 38 58.50 -0.3
 BOG 2.56 210 iPd 39 20.50 1.2
 iS 39 51.00
 PSO 7.22 219 eP 40 20.00 -1.1
 ZOBO 23.45 169 P 43 35.00 0.9
 LPB 23.71 169 P 43 18.00 -18.5X
 CNCB 24.00 169 eP 43 04.00 -35.4X

i 43 40.00
 SIV 25.51 153 Pd 43 52.00 -0.9
 i 44 08.00
 TIC 67.25 86 P 49 17.10 -0.3
 LIC 67.28 86 P 49 17.40 -0.2
 0.6s 7.00nm 4.7mb
 KIC 67.55 86 P 49 19.10 -0.2
 0.6s 8.50nm 4.8mb
 INK 73.09 340 eP 49 51.00 -0.7
 MBC 73.81 350 ePc 49 56.20 0.5
 NB2 81.13 29 P 50 37.30 1.0
 0.8s 1.70nm 3.8mb
 ASPA 149.40 234 iPKPc 58 08.40 3.0X
 0.6s 15.00nm
 WRA 150.64 241 PKPd 58 07.30 0.0
 0.4s 5.60nm
 WB5 150.64 241 iPKPc 58 11.80 4.5X
 e 58 52.70
 S.D. = 0.9 on 12 of 16 obs.

AUG 04, 1990 01h 01m 24.95 ± 0.61s
 48.216 N ± 5.9km 7.656 E ± 5.7km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.5 (LDG).

WLS 0.28 315 Pg 01 31.00 0.1
 Sg 01 35.00
 CDF 0.32 308 Pg 01 32.50 0.9
 Sg 01 36.90
 FEL 0.42 145 Pg 01 32.50 -1.0
 Sg 01 38.00
 BSF 0.70 237 Pg 01 38.70 -0.1
 Sg 01 47.30
 SLE 0.72 128 iP 01 39.80 0.7
 GWF 0.76 358 Pg 01 39.25 -0.6
 Sg 01 51.75
 ZLA 0.88 146 iP 01 42.60 0.6
 HAU 0.90 257 Pg 01 42.60 0.4
 Sg 01 54.00
 VITF 1.12 271 Pg 01 45.00 -0.9
 Sg 02 00.25
 LOR 2.73 251 Pg 02 16.50 6.8X
 Sg 02 50.20
 LBF 2.78 245 Pg 02 17.40 7.1X
 Sg 02 51.80
 SMF 3.03 240 Pg 02 22.30 8.5X
 Sg 03 00.20
 SSF 3.03 249 Pg 02 22.30 8.4X
 Sg 02 59.50
 AVF 3.25 246 Pg 02 26.00 9.1X
 Sg 03 07.30
 BGF 3.66 245 Pg 02 33.30 10.4X
 Sg 03 20.40
 MAF 4.00 242 Pg 02 40.10 12.5X
 Sg 03 31.30
 S.D. = 0.8 on 9 of 16 obs.

% AUG 04, 1990 01h 28m 38.67 ± 0.78s
 26.314 S ± 6.6km 27.485 E ± 7.2km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 2.7 (PRE).

BPI 0.51 74 eP 28 48.60 -0.3
 S 28 53.70
 PRY 0.61 181 eP 28 52.00 1.1
 S 28 57.60
 KSR 0.69 310 eP 28 53.00 0.5
 S 29 03.00
 SLR 0.92 51 iPd 28 56.00 -0.8
 S 29 08.20
 EVA 1.44 98 eP 29 15.80 10.2X
 S 29 29.00
 SEK 2.01 176 eP 29 13.50 -0.2
 S 29 37.50
 BFT 2.39 75 eP 29 20.50 1.2
 S 29 49.00
 BLF 3.01 202 iPc 29 26.70 -1.4
 S 30 03.50
 S.D. = 1.2 on 7 of 8 obs.

? AUG 04, 1990 01h 43m 29.47 ± 3.75s
 34.778 N ± 31.4km 21.953 E ± 19.8km
 DEPTH = 10.0km (geophysicist)
 3.9mb (1 obs.)
 MEDITERRANEAN SEA (400)

04d 01h

MD 3.4 (ATH).					CAF	86.17 336 eP	52 42.90 0.8	AVF	36.30 306 eP	55 33.90 0.1				
VAM	1.95	71 ePb	44 02.10	-0.8		0.9s	4.90nm		0.8s	2.70nm				
VLI	2.10	22 ePb	44 05.00	0.0	LFF	86.55 337 eP	52 44.90 1.0	NB2	36.71 331 P	55 36.40 -0.7				
ITM	2.40	359 ePn	44 14.00	4.6X	LPO	86.65 336 eP	52 45.20 0.7		0.8s	1.90nm				
NPS	3.04	80 ePb	44 24.00	5.5X	S.D. = 0.7 on 42 of 45 obs.					4.1mb				
APE	3.70	51 ePg	44 34.50	6.6X	? AUG 04, 1990 02h 56m 16.89 ± 3.29s					MFF	38.69 305 eP	55 54.00 0.2		
EVR	4.13	358 ePn	44 37.20	3.1X	6.329 S ± 29.0km 147.570 E ± 19.8km					LDF	38.82 308 eP	55 54.60 -0.3		
NEO	4.63	12 ePn	44 40.80	-0.4	DEPTH = 69.5 ± 11.1 km					FLN	39.08 308 eP	55 56.90 -0.1		
KZN	5.52	359 ePn	44 53.60	-0.2	4.2mb (3 obs.)						0.7s	4.40nm		
KAS	11.40	51 eP	46 16.50	1.1	EAST PAPUA NEW GUINEA REGION (207)					GRR	39.29 308 eP	55 58.90 0.1		
NUR	25.81	3 eP	48 44.00	-18.1X	LAT	0.65 240 iPd	56 31.00 -0.4		0.7s	5.50nm		4.6mb		
HFS	25.94	351 eP	49 03.50	0.2	PMG	3.09 188 iPd	57 05.00 0.7				LPF	39.39 307 eP	55 59.40 -0.2	
S.D. = 0.8 on 6 of 11 obs.						eS	57 50.00				SZP	66.34 84 eP	59 43.00 24.1X	
* AUG 04, 1990 02h 40m 03.17 ± 0.86s					OIS	16.12 208 eP	00 01.00 0.4				MBC	70.75 357 eP	59 44.50 -0.8	
43.888 N ± 16.4km 146.809 E ± 11.4km					MTN	17.45 247 eP	00 18.00 0.8				S.D. = 0.8 on 26 of 29 obs.			
DEPTH = 33.0km (normal)					WB5	18.60 222 eP	00 30.00 -0.5				AUG 04, 1990 03h 56m 52.84 ± 0.50s			
4.7mb (19 obs.) 3.7Msz (1 obs.)					WRA	18.66 222 Pd	00 30.90 -1.2				45.598 N ± 5.2km 26.404 E ± 7.6km			
KURIL ISLANDS (221)						0.5s	5.60nm				DEPTH = 168.3 ± 6.9 km			
MAT	9.85	225 eP	42 21.00	-4.5X	RMO	20.08 177 iPd	00 47.70 0.3				3.6mb (4 obs.)			
		iS	42 40.30		OLP	20.39 189 iPd	00 51.10 0.5				ROMANIA (358)			
CN2	15.41	277 eP	43 41.00	1.3	BRS	21.52 167 eP	01 02.00 -0.1				CVO	0.28 324 iPd	57 31.00 15.9X	
BJI	23.03	271 eP	45 06.00	-0.2	ASPA	21.68 216 iPd	01 04.20 0.6				MLR	0.34 252 iPd	57 15.00 -0.4	
TIA	23.89	261 eP	45 14.30	-0.3		0.4s	33.00nm				VRI	0.35 39 iPd	57 15.00 -0.3	
NJ2	24.88	251 eP	45 25.50	1.3		Z 23s	0.17um				BRD	0.46 100 iPd	57 16.50 0.8	
TIY	26.61	268 eP	45 40.80	0.5			eS	05 05.90			ISR	0.47 168 iPd	57 15.50 -0.3	
BT0	27.29	276 eP	45 47.00	0.5			ePcS	07 34.50			PPE	1.05 53 iPd	57 21.00 1.0	
XAN	30.82	264 eP	46 17.00	-1.2	STK	26.03 192 eP	01 43.60 -1.7				BUC1	1.28 192 ePd	57 40.00 18.0X	
CD2	36.17	264 eP	47 03.80	-0.7		1.2s	7.00nm				CFR	1.30 108 iPd	57 21.00 -1.2	
IMA	38.71	34 eP	47 25.10	-0.3	NANU	34.85 239 eP	03 04.20 0.6				PTT	1.34 359 eP	57 22.00 -0.6	
	1.0s	9.30nm		4.5mb		S.D. = 0.9 on 12 of 12 obs.					TNR	1.50 273 ePd	57 23.00 -1.1	
FBA	41.13	36 eP	47 45.80	0.5		? AUG 04, 1990 02h 56m 57.40 ± 5.40s					TLB	1.53 131 iPd	57 24.00 -0.4	
	0.5s	1.70nm		4.0mb		31.316 S ± 12.4km 71.143 W ± 44.9km					IAS	1.79 26 eP	57 28.00 0.9	
INK	46.41	30 eP	48 28.00	0.2		DEPTH = 10.0km (geophysicist)					PSN	2.30 146 iPd	57 33.00 0.1	
CHTO	47.08	254 eP	48 33.00	-0.7		NEAR COAST OF CENTRAL CHILE (135)					PVL	2.50 198 eP	57 37.00 1.7	
	0.9s	1.49nm		4.0mb							JMB	3.13 178 iPd	57 43.00 -0.1	
GUN	50.76	273 P	49 02.60	0.1								eS	58 37.00	
	0.8s	54.00nm		5.6mb	RTBS	1.48 104 ePd	57 23.80 -0.3				BZS	3.36 272 ePd	57 46.00 0.0	
KKN	51.26	273 P	49 06.20	0.1	RTRS	1.84 52 ePd	57 29.30 0.0				PGB	3.45 209 eP	57 45.00 -2.1	
	0.8s	30.00nm		5.3mb	RTCB	2.01 95 e(P)	57 31.50 -0.4				VTS	3.79 219 iPd	57 52.00 0.4	
PKI	51.30	273 P	49 06.10	-0.4	ZON	2.12 97 eP	57 34.00 0.6				KDZ	4.01 191 eP	58 08.00 13.6X	
DMN	51.49	273 P	49 08.10	0.1	RTLL	2.29 91 ePd	57 36.00 0.2				RZN	4.10 198 iPd	57 56.00 0.4	
GKN	51.60	274 P	49 08.50	-0.2	RTCV	2.29 104 e(P)	57 36.00 0.1				KKB	4.44 214 eP	58 01.00 1.1	
	1.0s	31.00nm		5.2mb	MDZ	2.50 129 eP	57 38.00 0.0				LPL	13.79 277 eP	00 07.60 5.1X	
KEV	58.50	339 eP	50 05.00	7.1X		i	57 41.20					0.4s	0.85nm	3.5mb
SUF	63.69	334 iPd	50 32.60	-0.5		iS	58 18.10				LOR	15.63 284 eP	00 26.40 1.2	
	0.6s	6.90nm		4.9mb	CFA	2.50 97 e(P)	57 38.50 -0.3				SSF	15.88 284 eP	00 29.70 1.5	
NUR	65.80	333 eP	50 45.00	-1.7		S.D. = 0.4 on 8 of 8 obs.						0.8s	2.70nm	3.7mb
GBA	65.85	266 P	50 47.00	-0.7		* AUG 04, 1990 03h 48m 35.48 ± 1.56s					APO	16.69 338 eP	00 38.60 0.6	
	0.5s	7.20nm		5.0mb		32.970 N ± 16.4km 47.793 E ± 10.5km						0.8s	3.20nm	3.7mb
NB2	69.39	339 P	51 08.50	-0.8		DEPTH = 71.2 ± 8.8 km					NB2	17.86 335 P	00 51.20 -0.4	
	0.8s	6.90nm		4.8mb		4.5mb (11 obs.)						0.5s	1.10nm	3.5mb
HFS	69.47	337 eP	51 08.50	-1.2		IRAN-IRAQ BORDER REGION (346)					LDF	18.27 289 eP	00 55.10 -1.0	
	0.6s	11.40nm		5.1mb							MFF	18.41 283 eP	00 57.60 0.0	
Z 19s		0.04um		3.7Msz							GRR	18.77 288 eP	01 00.60 -0.7	
		LR	21 30.00								LPF	18.90 287 eP	01 01.80 -0.9	
KRA	75.61	328 eP	51 46.00	-0.2	KER	1.49 338 ePd	49 01.00 0.1					S.D. = 1.0 on 26 of 30 obs.		
CLL	77.08	332 iPd	51 54.10	-0.3	TEH	4.06 46 eP	49 37.00 0.4				% AUG 04, 1990 04h 06m 24.38 ± 1.91s			
		e	52 08.00		TAB	5.22 347 eP	50 10.00 17.0X				17.092 N ± 17.7km 95.196 W ± 11.6km			
EKA	77.92	343 P	52 10.00	11.1X	MAIO	10.20 68 eP	50 51.00 -10.4X				DEPTH = 100.0 ± 29.9 km			
	0.9s	3.10nm			PRNI	11.21 260 e(P)	51 14.00 -1.1				OAXACA, MEXICO (60)			
KHC	78.72	331 P	52 04.40	0.9	VAM	19.66 284 ePb	53 02.10 0.9				PSM	0.41 159 iPd	06 39.00 -0.9	
CDF	81.45	334 eP	52 18.00	-0.1	VLI	20.72 287 ePn	53 12.00 -0.2					iS	06 50.00	
LOR	83.52	336 eP	52 28.40	-0.4	CMP	21.42 312 ePd	53 17.00 -2.2				EVV	1.37 354 eP	06 50.00 0.7	
	0.7s	2.75nm		4.5mb	ITM	21.56 288 ePn	53 21.60 1.0					iS	07 12.50	
LBF	83.74	335 eP	52 29.50	-0.5	KRA	26.73 318 eP	54 10.80 1.0				ODX	1.46 270 iPd	06 50.50 -0.2	
	0.8s	2.70nm		4.4mb		e	54 15.30					iS	07 10.25	
SSF	83.81	336 eP	52 30.20	-0.1	KHC	30.12 313 eP	54 41.00 0.6				SCX	2.48 98 eP	07 04.50 0.7	
	0.7s	2.20nm		4.4mb	SOTA	31.08 308 iPd	54 49.40 0.4					iS	07 34.00	
GRR	83.82	339 eP	52 30.20	0.0		0.8s	13.50nm				LVVM	2.89 336 eP	07 07.25 -2.1	
SMF	84.09	335 eP	52 31.70	0.0		e	55 14.00					(S)	07 40.00	
	0.7s	3.85nm		4.7mb	NUR	31.44 338 eP	54 52.00 0.2					iS	07 20.25 1.8	
AVF	84.10	336 eP	52 31.60	-0.1	SUF	32.78 342 eP	55 03.00 -0.5					III	4.27 288 eP	07 28.50 0.0
	0.7s	2.75nm		4.5mb	SBF	33.14 301 eP	55 07.80 0.9					S.D. = 1.8 on 7 of 7 obs.		
LPL	84.18	333 eP	52 32.70	0.3		0.6s	5.40nm				AUG 04, 1990 05h 05m 40.80 ± 1.38s			
	0.7s	2.20nm		4.4mb	LPL	33.82 304 eP	55 13.40 0.4				0.118 S ± 6.7km 99.517 E ± 7.7km			
LPF	84.19	339 eP	52 32.40	0.3		0.7s	4.95nm				DEPTH = 111.4 ± 11.6 km			
MAF	84.85	336 eP	52 36.10	0.6	HFS	35.18 331 eP	55 23.50 -0.7				5.1mb (22 obs.)			
	0.8s	5.35nm		4.8mb		1.2s	19.40nm				SOUTHERN SUMATERA (274)			
TCF	84.89	336 eP	52 36.10	0.4		Z 18s	0.19um				KLM	3.84 34 ePd	06 40.00 1.0	
LSF	85.12	337 eP	52 37.10	0.2			LR	10 10.00				0.8s	1201.10nm	
	0.7s	4.40nm		4.8mb	LBF	35.90 306 eP	55 30.80 0.3				KGM	4.35 61 ePd	06 47.40 1.5	
MFF	85.27	338 eP	52 38.00	0.4	SMF	35.95 305 eP	55 31.00 0.1							
RJF	85.99	336 eP	52 41.60	0.4		0.7s	4.95nm							
					SSF	36.23 306 eP	55 33.50 0.3							
						0.7s	2.75nm							

IPM	0.7s	1519.10nm	06 54.10		NUR	0.6s	4.10nm	4.5mb	GTA	29.37	326 eP	34 25.40	-0.6
			07 37.30			82.68	331 iP	17 53.20	KKN	34.50	296 P	35 00.00	-11.2X
			06 54.00	0.5	SOD	0.5s	8.40nm	4.9mb	WB5	38.33	159 eP	35 42.00	-1.2
	4.90	18 ePc	06 54.00		BRG	83.57	338 iP	17 58.20	WRA	38.38	159 Pd	35 41.80	-1.8
	0.8s	242.80nm				87.29	321 e(P)	18 17.00		0.9s	5.80nm		4.4mb
			06 59.20				e	18 36.00	GBA	41.61	272 Pd	36 09.80	-0.6
			08 15.30		CLL	87.90	321 eP	18 19.00		0.8s	5.60nm		4.3mb
SNG	7.33	9 eP	07 22.20	-4.6X	HFS	88.01	330 eP	18 19.60	ASPA	41.70	161 eP	36 09.30	-1.8
	1.1s	240.51nm		5.7mb		0.9s	12.00nm	4.9mb		0.8s	8.00nm		4.5mb
			08 42.10		NB2	89.28	331 P	18 25.70	MAIO	57.34	303 eP	38 11.00	-0.1
			30 49.80			0.8s	1.90nm	4.3mb	TTA	72.82	28 P	39 52.00	1.4
NNT	12.63	1 eP	08 35.00	-2.6	CDF	91.58	318 eP	18 35.40	SVW	73.07	30 e(P)	39 54.00	1.9
TRT	15.09	120 ePd	09 05.00	-4.4X	LPL	92.04	315 eP	18 39.10	IMA	73.70	25 eP	39 56.20	0.5
NST	15.70	2 eP	09 15.00	-2.1		0.8s	4.05nm	4.8mb		1.1s	11.60nm		4.8mb
BDT	17.26	358 eP	09 32.80	-3.6X	HAU	92.21	318 eP	18 39.40	PWA	75.78	29 eP	40 06.50	-1.0
LOE	17.55	7 eP	09 30.00	-10.0X		0.8s	6.70nm	5.0mb	PMR	76.14	30 P	40 08.00	-1.6
KKM	17.76	70 ePd	09 45.00	2.4	LBF	93.87	317 eP	18 47.10		0.8s	9.48nm		4.8mb
	0.9s	230.90nm		5.4mb		0.8s	2.70nm	4.7mb	FBA	76.26	26 P	40 09.30	-0.9
CHG	18.82	358 eP	09 52.10	-2.6	LOR	93.94	317 eP	18 47.40		0.8s	6.90nm		4.7mb
CHTO	18.82	358 iP	09 52.30	-2.4		0.9s	3.30nm	4.7mb	SOD	76.70	337 iP	40 13.00	0.3
	0.6s	4.49nm		4.0mb X	SMF	93.99	317 eP	18 47.70	SUF	77.76	332 eP	40 18.00	-0.5
TSM	19.03	77 iPc	09 56.80	-0.1	IMA	96.88	23 eP	19 01.40	NUR	78.92	330 iP	40 25.00	0.0
MKS	20.56	105 iPd	10 17.50	4.9X		0.7s	9.90nm	5.4mb	VRI	81.14	315 eP	40 38.50	1.3
PPR	21.50	62 eP	10 24.00	1.9	SVW	97.26	28 eP	19 03.50	MBC	81.21	12 eP	40 36.50	-0.5
QIZ	21.56	27 eP	10 22.50	-0.2	MBC	100.85	9 ePd	19 19.00	HFS	84.23	331 eP	40 52.00	-0.7
KOD	24.22	296 eP	10 50.00	1.0	SCH	124.33	350 ePKP	24 28.00		1.4s	24.00nm		5.1mb
KMI	25.28	7 P	11 00.00	1.2	BGMT	127.13	28 ePKP	24 35.10	Z	17s	0.17um		4.5MsZ
	1.5s	70.00nm		4.9mb	LNO	141.65	20 ePKP	24 55.50			LR	16 56.00	
			11 17.50		TUL	141.65	20 ePKP	24 56.50	KRA	84.36	320 eP	40 53.30	-0.3
GBA	25.77	303 Pd	11 02.90	-0.2		1.0s	2.70nm		NB2	84.99	333 P	40 55.70	-0.9
	1.1s	21.20nm		4.6mb	PPD	144.04	230 (PKP)	25 04.00		1.2s	15.80nm		5.1mb
GYA	27.30	14 P	11 16.40	-0.7	BAO	144.30	242 e(PKP)	25 06.00	KSP	86.29	322 eP	40 51.00	-12.2X
MBL	28.83	1											

[illegible]

Dop 170.8	6.3	Half-duration	1.5			0.5s	17.00nm	4.9mb					eP	18	41.00	172km
Moment Tensor;	Scale	10**16 Nm			Z	21s	0.13um	3.9Msz	CMB	81.12	52	eP	17	58.50	0.7	
Mrr= 1.33	0.80	Mtt=-4.78	1.09				iPcP	15	51.00			eP	18	40.80	171km	
Mff= 3.46	1.39	Mrt= 0.01	0.69				eS	21	22.00	LLA	81.31	54	eP	17	59.80	1.0
Mrf= 1.55	0.89	Mtf=-4.28	0.69				LR	32	33.40			eP	18	42.60	174km	
Principal Axes:				GUN	49.22	286 P	14	35.20	1.7	SES	81.51	38	ePc	18	00.50	0.9
T Val= 5.74	Plg=18	Azm=248		PKI	49.69	286 P	14	38.00	0.9		0.9s	154.00nm			5.7mb	
N	0.91	72	53	KKN	49.76	286 P	14	38.60	1.1			pP	18	40.00	159kmX	
P	-6.66	4	156	GKN	50.28	286 P	14	42.20	0.8	PRI	81.71	54	eP	18	02.10	1.1
Best Double Couple:Mo=6.2*10**16				MBL	50.48	206 eP	14	41.50	-1.1	FRI	82.05	53	eP	18	03.20	0.6
NP1:Strike=291 Dip=74 Slip= 170				SDN	51.78	38 eP	14	50.80	-1.2			eP	18	45.70	172km	
NP2: 23 81 16				DZM	52.94	150 iPc	15	00.50	-0.5	KVN	82.30	51 P		18	04.50	0.4
				BRS	53.40	167 iP	15	05.00	0.7			pP	18	47.00	172km	
MAT	11.65	348 eP	08 39.00 -3.3X	SVW	55.40	32 eP	15	18.80	0.3	SYP	82.91	55 eP		18	08.00	0.8
1.0s	47.00nm	4.9mb		TTA	55.58	30 P	15	19.50	-0.4			e	18	50.00		
					0.7s	21.80nm		5.1mb		LRM	82.91	43 ePc		18	08.00	0.8
GUMD	12.00	163 eP	08 47.60 0.8	NDI	56.56	289 ePc	15	27.00	-0.2			e	18	50.50		
1.4s	407.69nm	5.7mb			0.8s	74.63nm		5.6mb		TNP	83.35	51 P		18	10.00	0.5
PJG	12.00	163 eP	08 47.50 0.7			eS	23	05.50			0.8s	7.35nm		18	52.50	4.5mb
GUA	12.06	162 eP	08 48.20 0.6	IMA	57.23	26 eP	15	31.50	-0.1			pP	18	52.50	171km	
1.6s	720.00nm	5.9mb			0.9s	35.50nm		5.2mb		ISA	83.52	54 eP		18	10.00	-0.3
SSE	18.61	293 Pd	10 08.00 1.0			e	16	24.00				e	18	51.00		
0.6s	54.00nm	5.1mb		HYB	58.44	276 iPd	15	41.50	1.0	UPP	83.58	335 iP		18	08.00	-1.9
N	20s	1.90um			1.0s	80.00nm		5.5mb		FFC	83.87	31 iPd		18	12.00	0.5
				PMR	58.56	32 iPc	15	39.60	-1.1		0.8s	115.00nm			5.7mb	
PLP	20.72	231 eP	10 31.00 2.5		0.8s	89.00nm		5.7mb		CLC	84.09	53 eP		18	13.00	-0.1
NJ2	20.77	294 Pc	10 29.80 0.8	COOL	58.92	200 eP	15	42.00	-1.5			e	18	56.00		
					0.5s	3.00nm		4.4mb		PAS	84.41	55 eP		18	15.00	0.3
				MRWA	59.22	206 eP	15	44.00	-1.5			e	18	58.00		
MDJ	21.60	337 eP	10 37.00 -0.1	FBA	59.48	28 eP	15	46.30	-0.6	SBB	84.43	54 eP		18	15.00	0.2
SNY	22.13	323 Pc	10 42.00 -0.2	BWA	59.63	173 eP	15	48.30	0.0			e	18	58.00		
0.8s	20.00nm	4.														

04d 17h

SCM	3 45 36 eP	21 09.12 -0.8
	eS	21 47.13
KLU	3 69 47 iP	21 12.15 -1.1
	eS	21 52.28
HUR	4 00 13 eP	21 17.04 -0.5
TOA	4 02 39 ePc	21 17.30 -0.5
TTA	4 41 332 iPc	21 21.70 -1.7
GLB	4 52 55 iP	21 23.02 -1.8
TGL	4 69 66 eP	21 25.49 -1.9
BALM	5 01 63 eP	21 29.48 -2.3
DDM	5 44 28 eP	21 37.35 -0.4
WRH	5 64 15 eP	21 38.30 -2.2
HDA	5 76 20 eP	21 40.27 -1.9
DOT	5 81 35 eP	21 41.41 -1.6
PCA	5 83 75 iP	21 41.68 -1.5
CCB	5 84 16 eP	21 40.90 -2.5
FBA	6 09 15 iPc	21 44.90 -1.8
BCPM	6 13 77 eP	21 45.44 -1.9
SDN	6 14 236 eP	21 44.20 -3.3
GLM	6 23 17 eP	21 46.33 -2.4
HON	6 51 81 eP	21 50.05 -2.6
IMA	7 07 353 eP	21 59.40 -1.1
HYT	7 26 70 P	22 03.00 -0.2
SIT	8 84 96 eP	22 20.00 -4.7
MBC	20 59 21 eP	24 53.00 0.2
	0.7s 4.00nm	3.9mb
NB2	59 45 10 P	30 27.20 12.0
	0.7s 1.10nm	
GUN	81 20 311 P	32 26.00 -1.7
KKN	81 54 311 P	32 25.60 -3.7
	0.7s 14.00nm	5.0mb X
GKN	81 60 312 P	32 29.40 -0.1
	0.8s 13.00nm	4.9mb X
PKI	81 69 311 P	32 26.70 -3.5
DMN	81 77 311 P	32 26.50 -4.1
	62 obs. associated	

* AUG 04, 1990 17h 21m 39.41 ± 0.82s
 3.489 S ± 11.3km 145.967 E ± 12.8km
 DEPTH = 33.0km (normol)
 4.9mb (4 obs.)
 NEAR N COAST OF PAPUA NEW GUINEA (200)

HNR	15 09 114 eP	25 11.00 -1.0
CTA	16 50 179 iPd	25 35.20 5.1X
	1.0s 33.00nm	4.4mb
MTN	17 37 237 eP	25 39.80 -1.2
QIS	18 06 200 eP	25 49.60 0.0
WB5	19 84 214 eP	26 09.40 -1.1
RMO	23 03 174 eP	26 44.00 1.3
ASPA	23 20 209 iPd	26 45.50 1.0
	0.8s 36.00nm	4.9mb
	Z 28s 0.23um	3.5mszX
	LR	34 55.80
BRS	24 64 165 eP	26 58.50 0.1
STk	28 54 188 eP	27 38.30 4.0X
	1.8s 117.00nm	5.3mb
KMI	50 67 307 eP	30 39.50 1.2
BMI	51 22 331 eP	30 39.50 -2.4
LZH	55 65 319 eP	31 16.50 1.5
	2 0s 21 00nm	4.8mb
SIV	146 99 127 PKP	41 20.00 0.7
	S.D. = 1.4 on 11 of 13 obs.	

% AUG 04, 1990 19h 59m 55.03 ± 1.74s
 35.186 N ± 23.6km 24.727 E ± 8.6km
 DEPTH = 33.0km (normol)
 CRETE (370)
 MD 3.6 (ATH).

VAM	0 48 297 iPbc	00 05.00 -0.4
NPS	0 73 84 iPbc	00 09.00 0.1
APE	1 99 19 ePn	00 27.00 0.0
KAP	2 03 79 ePn	00 27.50 -0.1
VLI	2 11 317 ePn	00 27.70 -1.0
ITM	3 01 312 ePn	00 43.00 1.4
	S.D. = 1.0 on 6 of 6 obs.	

* AUG 04, 1990 21h 14m 32.50 ± 1.32s
 31.878 S ± 6.9km 72.036 W ± 14.3km
 DEPTH = 65.9 ± 12.7 km
 4.8mb (1 obs.)
 OFF COAST OF CENTRAL CHILE (134)

ROCH	1 39 142 iPc	14 56.00 -0.5
	i	15 15.50
JACH	1 46 124 iPd	14 56.40 -0.9

LCCH	1 64 166 iP	15 16.50
	i	14 59.60 -0.1
	i	15 26.00
	i	15 30.00
PEL	1 70 138 iPc	15 00.50 -0.1
SAN	1 95 144 iPc	15 04.00 0.0
	iS	15 32.00
TACH	2 00 153 iPd	15 05.40 0.8
FCH	2 06 135 iPd	15 06.00 0.1
	i	15 32.00
LNv	2 14 166 iPd	15 05.20 -1.3
	i	15 10.50
	i	15 33.00
PCH	2 16 144 iPc	15 07.00 0.0
RTBS	2 21 85 iPc	15 08.00 0.4
CHCH	2 36 151 eP	15 10.40 0.7
	iS	15 43.30
	i	15 46.20
RTCB	2 79 83 iPc	15 15.90 0.1
RTRS	2 79 53 iPc	15 14.00 -1.7
MDZ	2 88 111 eP	15 19.70 2.7
	i	15 23.30
	iS	15 58.90
ZON	2 88 84 iPc	15 17.40 0.4
RTCV	2 98 91 ePc	15 18.60 0.2
RTLL	3 09 81 iPd	15 18.00 -1.2
CFA	3 25 86 iPd	15 22.00 -0.2
	e	15 23.10
ANT	8 27 10 e(P)	16 41.00 8.9X
CCH	15 39 22 eP	18 10.00 2.6
CNCB	15 45 15 P	18 08.00 -0.4
LPB	15 69 14 P	18 14.00 2.6
ZOBO	15 94 14 P	18 12.20 -2.5
	Z 18s 0.26um	
	LR	23 28.00
SIV	18 70 35 P	18 43.60 -4.7X
BAO	27 21 59 eP	20 10.00 -2.2
LIC	74 11 72 P	26 03.90 0.2
KIC	74 42 72 P	26 05.80 0.2
	0.8s 10.50nm	4.8mb
BUL	88 16 113 eP	27 18.00 0.2
GBA	146 65 116 PKPc	34 10.60 3.5X
	0.8s 10.10nm	
HYB	149 76 111 ePKP	34 19.00 7.0X
	S.D. = 1.4 on 26 of 30 obs.	

* AUG 04, 1990 22h 08m 11.72 ± 2.88s
 31.768 S ± 12.2km 72.269 W ± 24.2km
 DEPTH = 17.5 ± 5.2 km
 OFF COAST OF CENTRAL CHILE (134)

ROCH	1 60 139 iP	08 38.50 -1.1
	i	08 58.00
JACH	1 69 123 iPc	08 39.00 -1.7
	iS	08 58.60
LCCH	1 80 161 eP	08 44.50 2.3X
PEL	1 92 136 iPc	08 42.70 -1.2
	iS	09 07.00
SAN	2 16 142 eP	08 47.50 0.0
	iS	09 13.50
TACH	2 19 150 iP	08 47.60 -0.3
FCH	2 28 133 eP	08 48.00 -1.5
LNv	2 30 162 iPd	08 48.60 -0.7
	i	09 24.50
PCH	2 37 142 iP	08 50.00 -0.4
RTBS	2 40 88 ePc	08 50.30 -0.5
CHCH	2 55 148 eP	08 53.00 -0.1
	i	09 23.50
RTRS	2 89 57 iPc	08 56.70 -1.0
	eS	09 34.00
RTCB	2 97 85 eP	08 58.60 -0.4
ZON	3 07 87 eP	09 00.00 -0.4
MDZ	3 10 112 eP	09 06.40 5.6X
	iS	09 43.40
RTCV	3 18 93 e(P)	09 02.00 0.1
RTLL	3 27 83 ePc	09 02.80 -0.5
CFA	3 44 88 ePd	09 04.90 -0.7
	S.D. = 0.6 on 16 of 18 obs.	

* AUG 04, 1990 22h 12m 17.94 ± 1.02s
 6.793 S ± 14.0km 146.724 E ± 15.0km
 DEPTH = 33.0km (normol)
 4.2mb (1 obs.)
 EAST PAPUA NEW GUINEA REGION (207)

LAT	0 31 63 iPd	12 26.00 0.2
	eS	12 41.00

PMG	2 63 171 eP	12 59.00 -0.1
	eS	13 43.00
WB5	17 70 221 eP	16 25.00 1.4
ASPA	20 82 215 eP	16 57.90 -1.4
	0.5s 6.00nm	4.2mb
PKI	68 34 303 P	23 18.80 -0.2
	S.D. = 1.4 on 5 of 5 obs.	

% AUG 04, 1990 22h 34m 42.79 ± 1.01s
 36.976 N ± 9.3km 29.467 E ± 7.5km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

ELL	0 42 123 iPg	34 51.50 0.1
	iSg	35 00.00
YER	0 96 280 ePn	35 01.00 -0.1
BCK	1 02 61 iPn	35 01.70 -0.4
KHL	1 35 2 iPn	35 07.10 -0.5
ALT	2 14 14 ePn	35 20.00 0.9
	S.D. = 0.8 on 5 of 5 obs.	

* AUG 04, 1990 22h 52m 41.32 ± 2.10s
 34.272 S ± 16.8km 71.787 W ± 11.1km
 DEPTH = 9.1 ± 3.8 km
 4.2mb (1 obs.)
 NEAR COAST OF CENTRAL CHILE (135)

LCCH	0 81 13 iPc	52 57.60 0.4
TACH	0 94 49 iPc	52 59.00 -0.3
CHCH	1 00 71 iPc	52 59.50 -0.9
PCH	1 24 59 iPc	53 04.00 -0.5
SAN	1 24 49 iPc	53 04.50 0.0
	iS	53 27.50
ROCH	1 45 27 iPc	53 07.50 -0.4
	iS	53 33.50
PEL	1 45 40 iPc	53 08.10 0.3
	i(S)	53 35.50
FCH	1 56 53 iPc	53 09.20 -0.4
JACH	1 87 33 iPc	53 14.00 0.1
MDZ	2 82 61 eP	53 31.50 4.1X
RTBS	3 26 38 ePc	53 35.30 1.7
RTCV	3 64 50 eP	53 39.50 0.5
RTCB	3 75 43 eP	53 41.20 0.6
ZON	3 77 45 eP	53 42.00 1.1
CFA	3 99 49 e(P)	53 43.50 -0.5
RTLL	4 05 45 eP	53 44.20 -0.6
RTRS	4 54 26 iPc	53 51.80 0.1
CNCB	17 72 12 P	56 49.00 -1.5
LPB	17 97 12 P	56 54.00 0.5
ZOBO	18 23 11 P	56 55.00 -1.8
SIV	20 60 31 P	57 18.20 -5.2X
ALO	76 12 331 eP	04 32.00 0.7
	0.9s 2.10nm	4.2mb
	S.D. = 0.9 on 20 of 22 obs.	

* AUG 04, 1990 23h 13m 47.67 ± 3.65s
 31.679 S ± 14.6km 72.452 W ± 30.2km
 DEPTH = 18.5 ± 5.6 km
 OFF COAST OF CENTRAL CHILE (134)

ROCH	1 77 137 iPd	14 17.50 -0.4
	iS	14 38.60
JACH	1 87 123 iPd	14 17.20 -1.9
	i	14 37.60
LCCH	1 94 158 ePc	14 20.00 -0.1
	i	14 48.50
PEL	2 09 135 eP	14 21.00 -1.3
	i	14 23.00
	iS	14 46.50
TACH	2 35 147 eP	14 26.00 0.0
	iS	14 53.50
LNv	2 43 159 eP	14 26.50 -0.6
	i	15 04.20
FCH	2 46 133 iPd	14 28.00 0.2
	iS	14 56.00
PCH	2 53 140 iPc	14 30.00 1.3
	i	15 02.50
RTBS	2 56 90 e(P)	14 28.20 -0.7
CHCH	2 71 146 eP	14 32.00 0.8
	i	15 06.50
RTRS	2 98 60 ePc	14 34.10 -0.7
	eS	15 11.00
RTCB	3 12 87 e(P)	14 37.60 0.5
ZON	3 22 89 eP	14 39.00 0.5
MDZ	3 28 112 eP	14 44.30 5.0X
	iS	15 21.60
RTCV	3 34 94 e(P)	14 41.00 0.9

04d 23h

RTLL 3.42 85 eP 14 41.00 -0.2
CFA 3.59 90 ePd 14 43.80 0.1
eS 15 26.00
S.D. = 1.0 on 16 of 17 obs.

% AUG 04, 1990 23h 58m 33.79±0.90s
32.847 S ± 6.4km 68.862 W ± 15.2km
DEPTH = 10.0km (geophysicist)
MENDOZA PROVINCE, ARGENTINA (139)

MDZ 0.04 165 iP 58 35.90 0.0
iS 58 40.70
RTCV 1.02 16 ePc 58 53.10 0.0
S 59 10.00
RTBS 1.28 337 eP 58 57.20 -0.4
CFA 1.34 23 ePd 58 58.80 0.2
eS 59 20.00
RTCB 1.36 2 ePc 58 58.90 0.1
RTLL 1.55 13 ePd 59 01.00 -0.5
RTRS 2.72 349 ePd 59 18.90 0.6
S.D. = 0.5 on 7 of 7 obs.

AUG 05, 1990 00h 45m 48.53±0.44s
39.572 N ± 5.0km 20.892 E ± 3.0km
DEPTH = 16.8 ± 4.1 km
4.0mb (2 obs.)
GREECE-ALBANIA BORDER REGION (392)
ML 3.7 (ATH).

IGT 0.43 265 iPg 45 56.40 -1.0
eSg 46 03.10
LSK 0.62 339 iPg 46 00.50 -0.1
SRN 0.75 294 iPg 46 03.70 0.9
KEK 0.86 280 ePg 46 05.10 0.5
EVR 0.97 132 ePg 46 02.00 -4.5X
eSg 46 15.50

TPE 0.99 317 iPnd 46 05.50 -1.3
KZN 1.00 42 ePg 46 05.70 -1.3
LIT 1.34 66 ePb 46 11.80 -0.7
eSb 46 31.60

VLO 1.40 310 iPn 46 17.10 3.9X
GRG 1.80 39 ePn 46 19.70 0.6
eSn 46 46.60
NEO 1.83 98 ePb 46 18.50 -1.0
THE 1.91 56 ePn 46 22.10 1.5
eSn 46 49.10

TIR 1.94 337 iPnc 46 24.00 3.0X
PLG 2.12 67 ePg 46 25.50 1.7
PHP 2.14 351 iPnc 46 27.10 3.1X
VAY 2.17 36 iPn 46 24.40 0.0
LCI 2.38 290 P 46 28.00 0.6
SKO 2.43 10 iPnd 46 31.50 3.4X
iPb 46 35.00
iPg 46 38.00
i 46 46.00
iSn 47 05.00
iSb 47 10.50

ITM 2.52 161 ePb 46 31.00 1.5
SRS 2.58 52 ePn 46 30.70 0.4
PUK 2.58 343 iPnc 46 34.00 3.7X
SDA 2.66 337 ePn 46 34.50 3.1X
ATH 2.73 125 ePn 46 31.00 -1.3
eSn 47 04.00

KKB 2.83 35 iPc 46 34.00 0.1
iS 47 15.00
MMB 2.95 46 eP 46 35.00 -0.6
eS 47 21.00

BRT 3.11 296 P 46 38.60 0.8
VLI 3.27 150 ePn 46 39.00 -1.1
BAI 3.44 298 P 46 42.00 -0.5
ORI 3.46 280 P 46 44.20 1.5
VTS 3.49 29 iPc 46 44.00 0.7
TDS 3.52 273 P 46 44.00 0.4
RZN 3.60 53 iPd 46 44.00 -0.9
eS 47 46.00

PLD 3.84 48 eP 46 51.00 2.9X
eS 48 01.00
PGB 3.87 39 iPc 46 51.00 2.4
RDO 3.88 65 ePn 46 50.00 1.3
KDZ 4.02 57 eP 46 50.00 -0.7
SOI 4.06 250 P 46 50.00 -1.3
MGR 4.15 280 P 46 53.50 1.0
DIM 4.31 53 eP 46 58.00 3.3X
SGO 4.40 285 P 46 56.90 0.9
ATN 4.47 253 P 46 55.00 -2.0
BSS 4.82 287 P 47 03.30 1.3
HVAR 4.91 319 iPn 47 02.40 -1.0

iSn 48 00.40
PVL 4.94 41 eP 47 04.00 0.3
SDI 5.79 294 P 47 16.90 1.1
BZS 6.07 5 eP 47 21.00 1.5
AZI 6.15 295 P 47 23.00 2.2
AQU 6.31 299 P 47 25.70 2.5
MLR 6.99 31 eP 47 35.00 2.2
ASS 7.11 302 P 47 35.50 1.1
VBY 7.24 327 ePn 47 35.50 -0.6
eSn 48 56.80

VRI 7.62 32 eP 47 41.00 -0.4
CEY 7.79 324 ePn 47 42.90 -0.9
eSn 49 11.00
CRE 7.83 304 P 47 45.00 0.5
LJU 7.98 326 ePn 47 45.00 -1.4
eSn 49 16.00

TRI 8.07 322 eP 47 45.70 -2.0
e 49 18.40
VOY 8.25 324 ePn 47 48.80 -1.6
eSn 49 24.00
FVI 9.19 322 P 48 01.50 -1.6
SOTA 10.39 321 eP 48 12.00 -7.9X
iPP 48 20.60
eS 50 15.00

KHC 10.89 334 eP 48 26.00 -0.6
LPG 11.99 304 eP 48 41.60 -0.2
0.6s 3.15nm 4.8mb X
LPL 12.01 304 eP 48 42.10 0.1
0.6s 2.70nm 4.7mb X

HFS 21.08 350 eP 50 30.70 -3.3X
0.7s 6.00nm 4.1mb
NB2 22.32 348 P 50 44.80 -1.7
0.7s 3.30nm 3.9mb
S.D. = 1.3 on 53 of 64 obs.

* AUG 05, 1990 01h 08m 46.53±0.49s
22.925 N ± 9.1km 142.476 E ± 10.9km
DEPTH = 33.0km (normal)
4.9mb (9 obs.) 3.9Msz (1 obs.)
VOLCANO ISLANDS REGION (213)

GUMD 9.56 166 eP 11 09.80 4.8X
PJG 9.56 166 eP 10 51.00 -14.0X
GUA 9.62 166 eP 11 17.00 11.2X
0.7s 65.75nm

MAT 14.06 346 (P) 12 00.00 -5.6X
eS 15 30.00
SSE 20.62 298 Pc 13 25.00 -0.6
1.0s 21.00nm 4.5mb
eS 17 14.00

NJ2 22.80 299 Pd 13 47.30 -0.2
TIA 25.63 307 eP 14 12.70 -2.0
WHN 26.19 295 P 14 22.50 2.5
TIY 29.67 307 eP 14 54.00 2.4
GTA 39.63 305 eP 16 16.60 -0.5
CHG 40.77 273 eP 16 26.60 0.1
e 41 02.00

CHTO 40.77 273 eP 16 26.20 -0.3
1.2s 9.03nm 4.4mb
CTA 42.91 175 iPc 16 45.00 1.1
1.1s 25.32nm 4.9mb

WB5 43.27 191 eP 16 46.50 -0.3
QIS 43.31 184 iPd 16 47.40 0.3
i 16 55.20
WRA 43.34 191 Pd 16 47.00 -0.4
1.2s 39.00nm 5.0mb
ASPA 47.06 191 eP 17 15.70 -1.3
0.9s 19.00nm 5.1mb
Z 20s 0.14um 3.9Msz

ePP 17 24.60
LR 34 07.20
WMO 49.30 309 P 17 34.00 -0.4
STK 54.50 181 eP 18 20.90 7.6X
1.8s 32.00nm 5.0mb

BWA 57.31 174 eP 18 42.80 9.2X
CAN 58.26 174 eP 18 48.00 7.8X
MBC 69.84 15 eP 19 55.00 -0.4
KEV 76.99 341 eP 20 38.00 0.7
SES 82.52 38 eP 21 07.00 -0.3
NUR 82.90 334 eP 21 07.00 -2.0
LRM 83.73 43 eP 21 14.10 0.2
FFC 85.13 32 ePd 21 20.70 0.3
1.1s 20.00nm 5.2mb

HFS 87.35 337 eP 21 27.50 -3.7X
0.6s 1.80nm 4.5mb
NB2 87.57 339 P 21 27.60 -4.8X
1.2s 7.50nm 4.8mb

ZOBO 150.46 83 PKP 28 33.00 0.8
LPB 150.56 83 PKP 28 37.00 4.8X
CNCB 150.75 84 PKP 28 33.00 0.4
SIV 156.77 77 PKP 28 59.70 19.4X
S.D. = 1.2 on 22 of 33 obs.

? AUG 05, 1990 01h 29m 38.63±1.13s
0.958 N ± 10.0km 123.213 E ± 10.3km
DEPTH = 68.4 ± 17.1 km
4.2mb (1 obs.)

MINAHASSA PENINSULA (265)

MNI 1.70 73 ePc 30 05.80 -0.8
eS 30 37.00
MKS 7.18 211 iPd 31 24.20 0.9
CGP 7.59 11 iPc 31 30.50 1.6
1.0s 38.00nm 5.1mb X
KKM 8.62 306 ePd 31 42.00 -1.2
0.5s 28.80nm 5.4mb X

WB5 23.42 153 eP 34 41.80 -0.7
WRA 23.46 153 Pd 34 42.90 0.0
0.6s 6.20nm 4.2mb
STK 37.01 154 eP 36 44.00 0.5
1.6s 43.00nm 5.1mb X
e 36 53.00

GBA 47.01 288 P 38 05.00 -0.2
SES 111.17 34 ePKP 48 11.00 4.8X
1.4s 297.00nm
FFC 113.28 27 ePKP 48 16.00 6.0X
1.0s 91.00nm

CNCB 160.77 146 ePKP 49 47.00 13.7X
ZOBO 161.12 144 PKP 49 46.00 12.3X
S.D. = 1.3 on 8 of 12 obs.

? AUG 05, 1990 01h 30m 05.03±1.03s
34.760 N ± 13.6km 80.213 E ± 11.5km
DEPTH = 33.0km (normal)
4.3mb (1 obs.)

TIBET (306)

NDI 6.57 204 iPnc 31 46.00 4.1X
eSn 33 01.00
GKN 7.72 150 P 31 58.00 -0.2
0.4s 16.00nm 5.4mb X

KKN 8.19 147 P 32 05.10 0.4
DMN 8.27 148 P 32 05.90 0.1
0.5s 12.00nm 5.3mb X
GUN 8.37 143 P 32 09.80 2.4X
0.4s 19.00nm 5.6mb X

PKI 8.43 147 P 32 07.80 -0.4
0.4s 15.00nm 5.5mb X
QUE 12.09 252 eP 32 58.00 -0.1
HYB 17.34 185 eP 34 03.00 -3.2X
GBA 21.21 187 P 34 50.40 0.2
NB2 50.25 324 P 38 59.80 0.0
0.8s 2.40nm 4.3mb
S.D. = 0.3 on 7 of 10 obs.

AUG 05, 1990 01h 34m 55.83±0.11s
29.551 N ± 2.6km 137.630 E ± 2.7km
DEPTH = 496.2km (geophysicist)
6.0mb (98 obs.)

SOUTH OF HONSHU, JAPAN (211)

mb 6.5 (BRK), 6.3 (PAS). Felt
(11 JMA) in ports of Honshu.
Depth from broadband
displacement seismograms.
FAULT PLANE SOLUTION: P-Waves
NP1: Strike=132 Dip=68 Slip= 45
NP2: 21 49 150
Principal Axes:

T P1g=47 Azm=355
P 11 253

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

RADIATED ENERGY

No. of sto: 7 Focal mech. F
Energy 3.2±1.2*10**13 Nm

MOMENT TENSOR SOLUTION

Dep 487 No. of sto: 12
Moment Tensor; Scale 10**18 Nm

Mrr= 0.54 Mtt= 4.26
Mff=-4.80 Mrt= 2.05

05d 01h

Mrf=-0.98 Mtf= 1.21			ScP 45 38.00			PcP 43 40.00		
Principal axes:			ScS 49 17.00			ScP 46 37.00		
T Val= 5.22 Plg=23 Azm=355			iP 39 05.80 -1.7			iS 47 21.00		
N 0.02 63 143			iPd 39 12.40 0.6			eP 41 50.50 0.1		
P -5.24 13 260			1.0s 407.00nm 6.0mb			i 41 51.40		
Best Double Couple: Mo=5.2*10**18			PGP 22.22 228 ePd 39 16.00 0.1			i 42 00.30		
NP1: Strike= 36 Dip=64 Slip= 173			iS 39 36.00			eP 42 02.50 3.9X		
NP2: 129 83 26			HKC 22.27 257 iP 39 18.20 1.9			1.1s 1772.15nm 6.5mb		
CENTROID, MOMENT TENSOR (HRV)			TIY 22.46 298 Pc 39 20.00 2.0			eS 46 47.50		
Data Used: GDSN			3.0s 3600.00nm 6.5mb			ePd 42 16.00 14.0X		
L.P.B.: 11S, 30C M.W.: 11S, 22C			S 42 47.00			1261.10nm		
Centroid Location:			GZH 22.68 259 iPd 39 21.00 1.0			eS 47 36.70		
Origin Time 01:35: 2.0 0.1			SS 42 49.00			41.88 304 iPc 42 03.79 0.7		
Lat 29.48N 0.01 Lon 137.50E 0.01			MCO 22.87 257 iP 39 22.50 0.7			4.0s 3600.00nm 6.2mb X		
Dep 520.4 0.8 Half-duration 6.0			HHC 24.01 305 Pc 39 33.00 0.9			pP 43 40.00 528kmX		
Moment Tensor: Scale 10**18 Nm			1.3s 300.00nm 5.7mb			iS 47 43.79		
Mrr=-0.32 0.04 Mtt= 3.78 0.06			CGP 24.25 213 iPc 39 35.00 0.7			i 51 05.09		
Mff=-3.46 0.07 Mrt= 3.06 0.06			1.0s 454.00nm 6.0mb			ePd 42 10.20 1.5		
Mrf=-1.69 0.05 Mtf= 2.60 0.06			XAN 24.77 288 P 39 39.50 0.6			0.9s 552.90nm 6.1mb		
Principal Axes:			6.0s 7500.00nm 6.4mb X			e 43 43.50		
T Val= 5.68 Plg=24 Azm=349			SP 42 04.00			iPd 42 07.70 -1.2		
N -0.03 52 113			S 43 24.00			ePd 42 13.50 0.8		
P -5.65 28 245			BTO 25.04 304 eP 39 42.40 1.0			0.7s 897.70nm 6.4mb		
Best Double Couple: Mo=5.7*10**18			5.0s 2600.00nm 6.0mb X			44.16 217 iPd 42 22.50 1.3		
NP1: Strike= 28 Dip=52 Slip=-177			iS 43 29.00			1.0s 651.00nm 6.1mb		
NP2: 296 87 -38			DAV 25.06 209 ePd- 39 41.00 -0.6			HNR 44.32 148 eP 42 21.00 -1.4		
			0.8s 1223.88nm 6.5mb			e(S) 48 14.00		
WKYJ 4.97 340 iP+ 36 27.90 4.8X			e 43 23.00			GUN 45.10 281 P 42 30.20 1.3		
SHK 6.51 321 iPc 36 41.70 3.8X			26.45 226 ePc 39 55.00 1.1			PKI 45.59 281 P 42 33.00 0.4		
1.0s 2800.00nm 6.3mb			OIZ 27.34 254 iPd 40 03.00 1.3			KKN 45.64 281 P 42 33.40 0.5		
MAJO 6.99 4 iPc 36 43.94 1.1			6.0s *****nm 6.6mb X			DMN 45.84 281 P 42 35.20 0.7		
id 38 07.04			S 44 04.50			GKN 46.14 282 P 42 37.20 0.6		
MAT 6.99 4 iPc 36 43.90 1.1			PcS 46 48.50			W85 49.24 184 iPd 42 58.60 -1.4		
eS 38 09.00			GYA 27.47 271 iPd 40 03.60 0.6			i 47 19.20		
SAP 13.80 11 iP 37 56.00 1.8			4.0s *****nm 6.8mb X			eS 49 19.00		
iS 40 21.10			SP 42 32.00			WRA 49.31 184 Pc 42 59.70 -0.8		
SSE 14.29 280 eP 37 57.50 -1.7			S 44 06.00			0.9s 290.00nm 5.7mb		
1.0s 670.00nm 6.2mb			ScS 49 48.20			OIS 49.85 178 iPd 43 02.40 -2.1		
S 40 28.00			LZH 29.03 292 ePc 40 17.77 1.2			0.6s 147.00nm 5.6mb		
ANP 14.96 257 iP 38 07.20 1.1			4.0s 4400.00nm 6.3mb X			e 44 40.00		
iS 40 44.60			Z 22s 12.90um 5.5msz			i 49 34.30		
DL2 16.17 309 iPc 38 17.80 -0.3			pP 41 43.00			CTA 50.05 169 iPd 43 04.90 -1.0		
1.0s 1000.00nm 6.4mb			sP 42 46.00			0.9s 144.12nm 5.4mb		
NJ2 16.33 284 iPd 38 20.00 0.4			iS 44 30.77			iS 49 31.00		
6.0s *****nm 6.8mb X			e 45 05.20			CTAO 50.05 169 ePd 43 04.52 -1.4		
SP 40 20.00			i 47 16.64			iPd 44 40.86 500kmX		
S 41 08.00			CD2 29.24 281 iPd 40 18.60 0.4			isPc 45 35.82		
ScP 45 28.80			5.0s *****nm 6.6mb X			SDN 50.40 41 eP 43 07.20 -0.9		
MDJ 16.33 339 iPc 38 21.40 1.8			iS 44 31.20			e 43 26.80		
6.0s *****nm 7.0mb X			MN1 30.49 206 ePd 40 28.70 -0.3			e 44 18.10		
SP 40 20.00			KMI 31.23 270 iPd 40 37.19 1.5			PP 45 14.00		
ScP 45 28.00			4.0s 11.90nm 3.8mb X			S 49 52.00		
iS 46 10.00			N 10s 11.40um			NDI 52.24 285 iPd 43 22.00 0.0		
ScS 49 06.00			E 10s 4.00um			0.5s 577.46nm 6.2mb		
SNY 16.72 321 iPc 38 25.00 1.6			iPd 42 08.24 540kmX			e 45 26.00		
6.0s *****nm 7.0mb X			iS 45 06.10			eS 50 07.50		
ScP 45 28.50			i 47 54.29			ASPA 53.03 184 iPd 43 26.40 -1.2		
iS 46 16.00			TSM 31.27 220 ePc 40 36.00 0.3			0.5s 385.00nm 6.0mb		
CN2 17.23 329 iPc 38 30.40 2.0			1.0s 160.00nm 5.5mb			Z 22s 3.21um 5.3msz X		
1.0s 600.00nm 6.2mb			S 45 22.00			iPP 45 05.70		
S 41 22.00			ScP 46 08.40			eScP 47 35.10		
GUMO 17.24 156 ePc+ 38 30.20 1.4			SS 48 14.00			iS 50 14.30		
PJG 17.24 156 ePc 38 30.20 1.4			AAI 34.26 197 ePd 41 01.70 0.8			eScS 52 22.40		
GUA 17.30 156 ePc 38 30.80 1.4			0.4s 195.80nm 6.0mb			LR 01 32.90		
0.9s 6621.85nm 7.3mb X			e(S) 45 56.80			TTA 53.40 31 P 43 29.60 -0.4		
e 40 36.00			LOE 34.94 258 iPd 41 07.00 0.4			SVW 53.42 34 iPc 43 30.80 0.7		
eS 41 23.00			SMY 35.35 39 eP 41 11.90 2.3			BRW 54.52 21 eP 43 38.10 0.5		
QZH 17.54 259 iPd 38 32.50 1.0			e 41 13.50			IMA 54.75 28 iPc 43 39.70 0.2		
0.8s 1400.00nm 6.6mb			MNDI 35.97 170 eP 41 16.00 0.6			1.0s 490.00nm 5.8mb		
iS 41 29.50			RAB 36.33 155 eP 41 18.00 -0.1			i 44 36.10		
TIA 18.44 296 P 38 42.00 1.7			PCT 36.50 254 iPd 41 21.00 1.5			HYB 55.01 271 iPd 43 41.70 -0.2		
2.0s 1170.00nm 6.2mb			0.5s 10.00nm 4.6mb X			1.0s 550.00nm 5.8mb		
S 41 44.00			CHG 36.72 262 iPd- 41 22.00 0.6			i 43 50.00		
ScP 45 33.30			eS 49 36.00			e 44 35.50		
CVP 18.65 234 iPc 38 44.00 1.6			CHTO 36.72 262 iPd 41 22.50 1.2			i 45 52.00		
iS 38 56.00			NST 37.09 256 iPd 41 26.20 1.9			i 47 26.00		
WHN 20.17 279 iPd 38 59.50 2.6			LAT 37.11 164 eP 41 26.00 1.6			iS 50 45.00		
1.0s 1000.00nm 6.4mb			BDT 37.34 260 iPd 41 27.80 1.5			i 52 34.00		
SP 41 10.00			0.7s 429.80nm 6.1mb			NANU 56.01 205 iPd 43 48.00 -0.6		
iS 42 13.00			MKS 38.72 210 iPd 41 39.30 1.6			0.4s 85.00nm 5.4mb		
BAG 20.40 234 iPd- 38 58.10 -1.2			NNT 38.96 252 iPd 41 40.10 0.4			QLP 56.17 173 iPd 43 48.50 -1.2		
e 41 11.00			PMG 39.81 165 eP 41 46.00 -0.5			PMR 56.56 33 iPc 43 50.90 -1.1		
e 42 11.50			LSA 40.19 282 Pd 41 52.50 2.4			1.0s 1575.00nm 6.3mb		
BJI 20.44 306 iPc 39 00.27 0.9			6.0s 3100.00nm 6.0mb X			e 43 53.50		
1.2s 650.00nm 6.1mb						e 44 37.00		
sP 41 11.00								
iS 42 15.48								

SPC	83	84	324	iP	46	35.10	1.6	ZST	86.07	325	eP	46	43.90	-0.2				i	06	19.00
				i	48	24.50					i	46	45.90					i	09	34.00
				e	49	57.80					e	48	37.80					eP	46	50.80
CLC	83.96	52		eP	46	34.00	-0.2	MSU	86.08	48	P	46	45.00	0.3	GRG	87.76	317		46	50.80
				e	48	28.00		PRU	86.12	327	Pc	46	43.70	-0.6	GRF	87.86	328	iPc	46	52.30
				e	56	20.00			1.4s	280.00nm						1.1s	385.00nm		6.1mb	
ALT	84.05	312		eP	46	34.80	0.2		13s	3.80um						20s	2.20um		5.6msz	
CSS	84.08	307		eP	46	34.30	-0.4	Z	14s	2.80um										
JMB	84.35	316		iPd	46	37.00	1.1	N	16s	3.10um										
				iS	56	20.00		E												
DSI	84.39	303		eP	46	35.50	-0.8													
SBB	84.40	53		eP	46	36.00	-0.4													
				e	48	29.00														
DRA	84.42	319		eP	46	20.00	-16.2X													
PAS	84.44	54		iPc	46	37.09	0.6													
				ipPc	48	25.02	484kmX													
				isPd	49	18.32		IZM	86.26	312	eP	46	46.10	0.8	LIT	88.23	316	eP	46	52.90
				epPP	52	29.00		BAR	86.28	54	eP	46	46.00	0.5	HLW	88.24	303	eP	46	55.00
				esPP	52	48.00												eS	56	32.00
				eSKS	56	10.14												eP	46	54.00
				eSKKS	56	20.00		VTs	86.28	318	iPc	46	46.00	0.5	ESY	88.37	339	ePc	46	54.00
				eS	57	20.00		YER	86.32	311	iP	46	45.50	-0.1	EBH	88.37	339	ePc	46	54.00
				esP	58	33.00		PRK	86.40	314	eP	46	45.60	-0.3	BHG	88.48	326	iPc	46	55.00
				ePS	59	44.00		VKA	86.42	325	eP	46	44.50	-1.3				i	46	56.60
				esPS	02	02.00			1.0s	164.00nm										
				ePKKP	03	24.00														
				eSSS	08	48.00														
MWC	84.48	54		eP	46	37.00	0.0													
BCK	84.61	310		eP	46	36.20	-1.2													
PVL	84.66	317		eP	46	38.00	0.6													
CIS	84.67	55		eP	46	40.20	2.5	BEO	86.47	321	iP	46	47.50	1.4						
DST	84.70	313		iP	46	27.60	-10.2X	MMB	86.58	317	eP	46	46.00	-0.8						
KSP	84.71	327		iPc	46	37.														

CDF 94.09 331 iPc 29 24.50 -0.3
0.8s 20.15nm 5.6mb
OSS 94.13 329 ePc 29 24.90 -0.2
FEL 94.18 331 eP 29 24.58 -0.7
ZLA 94.32 330 ePc 29 25.20 -0.6
LLS 94.51 330 ePc 29 26.50 -0.4
VDL 94.59 329 ePc 29 26.80 -0.4
BSF 94.74 331 iPc 29 27.10 -0.7
0.8s 12.10nm 5.4mb
HAU 94.79 332 iPc 29 27.40 -0.5
0.8s 10.75nm 5.3mb
TMA 95.14 329 ePc 29 28.90 -0.9
PGD 95.45 326 P 29 31.50 0.3
MMK 95.60 330 ePc 29 31.70 -0.3
DIX 95.82 330 ePc 29 32.70 -0.3
LOR 96.41 333 iPc 29 34.90 -0.4
0.8s 12.10nm 5.5mb
LPL 96.56 330 iPc 29 35.80 -0.5
0.6s 8.10nm 5.4mb
LPG 96.57 330 iPc 29 36.00 -0.4
0.6s 11.70nm 5.6mb
LBF 96.59 332 iPc 29 35.50 -0.7
1.0s 10.00nm 5.3mb
SSF 96.72 333 iPc 29 36.30 -0.4
1.0s 16.00nm 5.5mb
SMF 96.92 332 iPc 29 37.10 -0.5
1.0s 16.00nm 5.5mb
BNI 96.94 330 P 29 37.50 -0.4
AVF 97.00 333 iPc 29 37.60 -0.3
0.8s 16.80nm 5.6mb
SOI 97.22 320 Pd 29 39.50 0.4
BGF 97.40 333 iPc 29 39.70 -0.1
0.8s 5.35nm 5.1mb
SBF 97.51 328 iPc 29 39.20 -1.2
0.7s 8.80nm 5.4mb
MAF 97.78 333 iPc 29 41.80 0.3
1.0s 6.00nm 5.1mb
TCF 97.87 333 eP 29 41.80 -0.1
0.8s 2.70nm 4.8mb
FRF 98.11 329 iPc 29 42.00 -1.0
0.6s 2.70nm 5.0mb
LSF 98.18 333 eP 29 42.90 -0.4
0.8s 6.70nm 5.2mb
LRG 98.33 329 iPc 29 43.00 -0.9
0.7s 4.40nm 5.1mb
LMR 98.35 329 iPc 29 42.90 -1.2
0.6s 3.60nm 5.1mb
RJF 98.95 333 iPc 29 46.90 0.1
0.8s 5.35nm 5.1mb
LFF 99.57 333 iPc 29 49.80 0.2
0.6s 3.60nm 5.1mb
TIC 133.17 311 PKP 35 23.28 0.2
KIC 133.20 311 PKP 35 23.02 0.0
LIC 133.49 311 PKP 35 23.40 -0.2
ZOBO 150.31 74 PKP 35 55.00 1.4
1.0s 45.00nm
LPB 150.45 75 PKP 35 55.00 1.4
CNCB 150.68 75 PKP 35 56.00 1.9
i 36 01.50
CCH 152.51 74 PKP 36 03.90 7.4X
SIV 156.07 66 PKP 36 15.00 14.0X
S.D. = 0.8 on 164 of 175 obs.

AUG 05, 1990 03h 36m 22.29±0.10s
36.310 N ± 2.4km 141.072 E ± 2.2km
DEPTH = 26.6km (geophysicist)
5.8mb (104 obs.) 6.0Msz (22 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)
Ms 5.7 (BRK), 5.6 (PAS). Felt
(IV JMA) at Mito and Choshi;
(III JMA) at Fukushima, Onahama
and Utsunomiya; (II JMA) at
Sendai, Chiba, Tokyo and
Yokohama. Two events about 2
sec. apart. Depth from broadband
displacement seismograms, based
on first event.
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=30 Dip=65 Slip= 85
NP2: 222 25 101
Principal Axes:
T Plg=70 Azm=290
P 20 124
Comment: The focal mechanism is
poorly controlled and
corresponds to reverse

faulting with a small right-
lateral strike-slip component.
The preferred fault plane is
NP2.
RADIATED ENERGY
No. of sta: 9 Focal mech. M
Energy 4.5±1.1*10**12 Nm
MOMENT TENSOR SOLUTION
Dep 34 No. of sta: 14
Moment Tensor: Scale 10**18 Nm
Mrr= 1.11 Mtt=-0.52
Mff=-0.59 Mrt= 0.49
Mrf= 0.74 Mtf=-0.48
Principal axes:
T Val= 1.43 Plg=70 Azm=298
N -0.08 4 39
P -1.35 20 131
Best Double Couple:Ma=1.4*10**18
NP1:Strike=228 Dip=26 Slip= 99
NP2: 37 65 86
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 32C
Centroid Location:
Origin Time 03:36:27.7 0.4
Lat 36.24N 0.03 Lon 141.36E 0.04
Dep 38.8 BDY Half-duration 4.2
Moment Tensor: Scale 10**18 Nm
Mrr= 0.96 0.03 Mtt= 0.28 0.04
Mff=-1.24 0.04 Mrt= 0.24 0.06
Mrf= 0.91 0.08 Mtf=-0.59 0.04
Principal Axes:
T Val= 1.29 Plg=70 Azm=275
N 0.47 4 17
P -1.76 19 108
Best Double Couple:Ma=1.5*10**18
NP1:Strike=205 Dip=26 Slip= 99
NP2: 15 64 85

KAKJ 0.73 262 iPd 36 39.20 2.8
S 36 48.90
CHJJ 1.70 262 P 36 52.90 2.3
NIJJ 1.90 300 P 36 56.10 2.6
YAMJ 2.04 336 P 36 56.90 1.5
S 37 22.00
MAT 2.32 277 iPd 37 02.30 2.8
eS 37 32.00
MTMJ 2.65 277 P 37 07.50 3.2X
IIDJ 2.70 253 P 37 09.70 4.8X
S 37 45.90
OFUJ 2.81 10 P 37 06.10 -0.2
eS 37 39.30
SAP 6.74 2 eP 38 02.00 0.0
iS 39 14.90
SHK 7.08 258 eP 38 09.00 2.2
MDJ 12.04 317 eP 39 15.40 0.3
1.6s 400.00nm 6.4mb
E 18s 30.60um
SS 41 37.00
CN2 14.10 307 Pc 39 41.80 -0.5
1.0s 400.00nm 6.1mb
Z 14s 41.00um
N 12s 18.00um
E 12s 12.00um
PP 39 49.00
SP 39 52.00
SS 42 30.00
SNY 14.66 297 iPc 39 50.00 0.4
1.0s 200.00nm 5.5mb
Z 19s 71.80um
N 14s 27.00um
E 19s 47.20um
PP 39 57.20
SP 40 00.80
PP 40 04.00
iS 42 30.00
DL2 15.63 285 P 40 03.00 0.7
1.2s 500.00nm 5.6mb
Z 21s 43.50um 4.7Msz
N 17s 16.70um
E 17s 46.50um
S 42 54.00
SSE 17.34 258 Pc 40 24.50 0.6
1.0s 67.00nm 4.7mb X
Z 20s 33.10um 4.0Msz
N 16s 17.20um
E 16s 14.50um

PP 40 33.50
SS 43 50.00
NJ2 18.86 263 Pc 40 40.00 -2.7
1.0s 100.00nm 5.0mb
Z 20s 8.90um
N 17s 13.30um
E 17s 32.20um
SS 44 20.00
TIA 19.31 277 P 40 45.70 -2.4
Z 20s 25.90um
N 16s 17.40um
E 15s 11.30um
S 44 18.50
BJI 19.90 288 iPc 40 50.95 -3.6X
1.2s 200.00nm 5.3mb
Z 19s 24.30um 4.4MszX
N 13s 8.00um
ec 40 52.77
e 40 56.58
ANP 20.09 242 iP 40 54.00 -2.7
iS 45 07.40
QZH 22.36 246 eP 41 17.00 -2.7
1.0s 200.00nm 5.5mb
N 14s 6.50um
E 16s 10.50um
TIY 22.88 282 Pd 41 23.00 -1.8
1.2s 200.00nm 5.5mb
Z 18s 48.70um 6.0Msz
N 14s 16.60um
E 14s 24.00um
PP 41 32.00
PJG 22.88 170 eP 41 26.00 1.1
GUMO 22.88 170 eP 41 26.00 1.1
1.2s 683.33nm 6.0mb
pP 41 32.60 24kmX
GUA 22.94 170 eP 41 25.80 0.4
1.0s 544.00nm 6.0mb
eS 45 31.50
WHN 22.99 263 eP 41 25.50 -0.4
1.0s 100.00nm 5.3mb
Z 20s 20.10um 5.6Msz
N 18s 20.40um
E 16s 16.40um
SP 41 42.00
iS 45 30.00
HHC 23.45 290 P 41 28.00 -2.4
Z 19s 31.90um 5.8Msz
BTO 24.62 289 eP 41 39.20 -2.6
Z 15s 18.50um 5.7MszX
N 15s 5.60um
E 15s 17.00um
PP 41 47.50
CVP 25.16 228 eP 41 46.70 -0.2
1.0s 162.00nm 5.6mb
PIP 25.43 231 eP 41 47.00 -2.4
SZP 26.11 230 eP 41 51.00 -4.8X
XAN 26.32 275 Pc 41 56.80 -0.9
7.0s 2000.00nm 5.9mb X
N 13s 7.50um
E 14s 10.10um
PP 42 36.00
BAG 26.91 228 eP 42 01.00 -2.3
HKC 27.18 247 iP 42 06.00 0.4
GZH 27.35 249 Pc 42 06.00 -1.0
Z 13s 14.10um 5.7MszX
N 14s 6.70um
E 13s 7.60um
QCP 28.02 225 eP 42 07.00 -6.2X
PLP 28.96 214 ePd 42 21.00 -0.6
1.0s 28.00nm 4.9mb
LZH 29.92 281 iPc 42 29.21 -1.2
2.0s 200.00nm 5.6mb
Z 20s 74.60um 6.3Msz
E 17s 29.40um
ec 42 31.36
isPd 42 40.46
eS 47 21.00
GYA 30.83 261 iPc 42 37.40 -1.1
1.2s 400.00nm 6.1mb
N 18s 10.10um
E 18s 15.50um
S 47 35.00
CD2 31.41 271 eP 42 41.60 -1.8
1.0s 300.00nm 6.1mb
Z 18s 17.80um 5.8Msz
N 14s 31.90um
PP 42 53.00

				PP	43	48.00		KIP	54.55	88	ePc	45	47.93	-2.6		e	57	08.00				
CGP	31.49	212	eP	42	41.00	-3.1X				esPd	45	59.51				LR	20	30.00				
DAV	32.35	210	eP	42	46.00	-5.7X		INK	55.16	27	iPc	45	53.90	-0.4		FHC	70.68	53	eP	47	38.80	1.1
QIZ	32.38	246	iPc	42	52.50	0.5			0.8s	61.00nm			5.7mb			epP	47	50.50	39kmX			
	N	15s	6.80um					WB5	56.24	188	iPc	46	02.00	-0.6		BWA	70.70	174	iPc	47	38.90	1.2
	E	13s	4.30um							eS	53	47.30				i	47	52.20				
GTA	32.52	288	P	42	51.40	-1.7		CTA	56.30	174	iPc	46	02.40	-0.6		NEW	70.84	44	P	47	38.00	-0.6
	0.8s	110.00nm			5.8mb				1.7s	115.38nm			5.6mb			1.0s	47.50nm				5.6mb	
	Z	14s	7.00um		5.5MsZ			WRA	56.31	188	Pc	46	02.40	-0.7		KLB	70.99	201	eP	47	39.00	-0.5
	E	11s	5.00um						1.1s	116.70nm			5.8mb		CAN	71.65	173	eP	47	44.00	0.7	
			PP	44	02.00			QIS	56.57	182	iPc	46	04.20	-0.8			i	47	57.10			
			PcP	45	39.80					e	46	29.00			WDC	71.73	53	eP	47	44.00	0.0	
			S	48	01.00			SIT	57.12	40	P	46	10.00	1.5			epP	47	56.60	43kmX		
PPR	33.30	223	eP	43	00.00	0.1			1.0s	60.00nm			5.6mb		MUN	71.81	202	eP	47	44.00	-0.4	
ADK	33.56	49	eP	43	01.50	-0.4		MBC	57.30	16	iPc	46	09.00	-0.6		TAB	71.99	304	eP+	47	46.00	0.3
KMI	34.59	262	iPc	43	10.70	-0.6			1.0s	63.00nm			5.6mb		NWAO	72.40	201	eP	47	47.00	-0.8	
	2.0s	400.00nm			6.0mb			HYB	57.91	269	iPc	46	14.30	-0.4		SES	72.89	40	ePc	47	50.00	-0.7
	N	15s	71.00um						1.0s	230.00nm			6.2mb			1.4s	195.00nm				5.9mb	
	E	16s	6.80um							eS	54	12.00				pP	48	03.00	45kmX			
			ic	43	12.85			ASPA	60.03	188	ePc	46	28.60	-0.5		ORV	72.95	53	eP	47	51.00	-0.2
			isPd	43	21.95				1.0s	53.00nm			5.6mb		BRK	73.37	55	eP	48	03.70	43kmX	
			ed	43	23.77				Z	22s	4.76um			5.6MsZ			epP	47	54.20	0.6		
			ePP	44	25.13					eS	54	40.10				eP	48	05.80	39kmX			
			S	48	37.00					LR	10	41.90			BKS	73.38	55	ePc	47	54.10	0.3	
TSM	38.31	219	eP	43	42.00	-0.5		MBL	60.58	203	iPc	46	32.60	-0.3			epP	48	05.10	36kmX		
LOE	39.49	252	eP	43	52.20	-0.2			1.0s	88.00nm			5.8mb			eS	57	22.00				
CHG	40.85	256	ePc	44	04.00	0.4		GBA	60.89	266	P	46	35.30	0.2		PCC	73.49	55	eP	47	54.60	0.2
	1.2s	107.42nm																				

			eSKKP	11	10.00		BCK	82.41	311	eP	48	42.10	-1.4	N	20s	9.20um		
MWC	78.24	56	eLR	11	48.00		VKA	82.47	326	iPc	48	44.40	0.8	E	19s	7.51um		
			eP	48	22.00	0.5		1.4s	71.40nm				5.6mb				49 08.60	
			e	48	34.00		KHL	82.49	312	iP	48	43.60	-0.3				49 12.00	
BW06	78.37	45	P	48	21.80	-0.3	KDZ	82.63	317	iP	48	46.00	1.5				49 21.00	
GSC	78.44	55	eP	48	23.00	0.5	MOX	82.66	330	iPc+	48	44.50	0.0				52 10.50	
PTT	78.57	321	eP	48	22.50	-0.4		1.8s	169.00nm				5.8mb				59 16.00	
CFR	78.79	318	ePc	48	23.00	-1.1	Z	18s	6.40um				6.0Msz				59 41.00	
RVR	78.83	56	eP	48	23.00	-1.5	N	16s	4.00um								00 29.00	
VR1	79.10	320	ePc	48	26.00	0.2	E	18s	4.00um								04 50.00	
RYD	79.16	293	iPc	48	26.20	-0.3			iP	48	58.00	46kmX	PLG	84.59	317	ePc	48 54.50 0.0	
TLB	79.25	318	ePc	48	27.00	0.5			eS	59	20.00		PLE	84.63	321	iPc	48 56.10 1.3	
CVO	79.42	320	ePc	48	28.00	0.4	PGB	82.70	318	iP	48	46.00	1.1	RUV	84.64	113	iP	49 09.80 14.9X
MSU	79.46	50	P	48	29.00	0.8	PLD	82.71	318	iPc	48	45.00	0.1		1.2s	85.00nm		
MJMA	79.49	294	eP	48	28.00	-0.3	GOL	82.76	45	P	48	45.80	0.2	THE	84.67	318	eP	48 54.50 -0.4
BMR	79.52	322	ePd	48	31.00	3.0X		1.0s	25.00nm				5.3mb	IYA	84.71	321	iPc	48 56.10 1.0
KRA	79.54	326	iPc	48	28.30	0.3	Z	20s	1.35um				5.3Msz	HQL	84.72	303	eP	48 56.00 0.7
	1.0s	149.00nm			6.0mb		ALN	82.79	316	eP	48	45.40	0.1	FUR	84.73	329	iPc	48 55.10 0.0
Z	17s	12.60um			6.3Mszx		WIT	82.79	334	eP	48	46.00	0.9		1.0s	147.00nm		6.2mb
E	17s	10.80um							e	48	59.00			Z	17s	9.00um		6.2Mszx
			i	48	30.50		HOF	82.81	330	iPc	48	45.50	0.2	GRG	84.75	318	ePc	48 55.20 -0.1
			i	48	40.70			1.0s	102.00nm				5.9mb	LJU	84.95	326	ePc	48 55.70 -0.5
			e	51	28.00		Z	18s	7.00um				6.1Msz			e(S)	59 18.00	
			eS	58	45.00		GLD	82.81	45	P	48	45.00	-0.7	KKS	85.01	320	ePn	48 57.50 1.0
ANTO	79.55	312	iPc	48	28.75	0.3	Z	20s	1.80um				5.4Msz	VBY	85.02	325	iPc	48 56.70 0.2
			ec	48	30.90		RDO	82.91	317	ePd	48	47.00	1.1	STU	85.10	330	iPc	48 57.00 0.1
			esPd	48	39.67		PPCY	82.97	308	eP	48	46.00	-0.3		1.0s	164.00nm		6.2mb
			ed	48	41.83		RZN	82.99	317	iPc	48	47.00	0.4	Z	20s	6.67um		6.0Msz
			ePP	51	32.81		KHC	83.02	328	iPc	48	47.00	0.6	CEY	85.23	326	eP	48 57.30 -0.3
			epPP	51	42.74			1.0s										

Z 14s 0.46um 5.0MszX	N 11s 0.86um	RMW 70.63 45 P 24 15.30 -0.1
N 14s 0.47um	E 11s 1.05um	NUR 70.76 331 iP 24 14.80 -1.0
E 14s 0.46um	eS 20 54.00	0.7s 10.70nm 4.9mb
SUF 88.10 333 iP 25 07.70 1.0	WHN 21.22 265 iPc 17 51.70 5.0X	PNT 70.92 43 ePc 24 16.00 -1.0
0.5s 4.10nm 4.7mb	Z 12s 1.20um 4.5MszX	0.9s 43.00nm 5.4mb
NUR 88.30 331 eP 25 08.00 0.3	E 11s 1.40um	LON 71.00 46 P 24 17.00 -0.6
SPC 88.78 319 eP 25 09.40 -1.1	TIY 21.55 285 eP 17 49.50 -0.7	EDM 72.07 37 iPc 24 23.00 -0.9
KEV 89.49 340 eP 25 15.00 1.8	Z 12s 2.40um 4.8MszX	FHC 72.74 52 eP 24 29.50 1.5
SIO 144.19 28 iPKP 31 51.90 -0.6	N 13s 1.40um	NEW 72.88 43 P 24 28.00 -0.7
LNO 144.28 27 iPKP 31 52.30 -0.2	E 12s 1.10um	0.8s 46.35nm 5.5mb
TUL 144.28 27 iPKP 31 52.20 -0.5	GUMO 22.03 165 eP 17 54.30 -0.7	WDC 73.79 52 eP 24 34.30 0.2
0.8s 27.10nm	1.2s 416.67nm 5.7mb	LBFM 73.79 51 P 24 34.80 0.4
S.D. = 0.9 on 27 of 31 obs.	Z 22s 0.58um 4.0Msz	SES 74.89 39 iPc 24 40.20 -0.1
	pP 18 02.20 28kmX	0.7s 50.00nm 5.6mb
AUG 05, 1990 07h 13m 02.80±0.63s	eS 21 57.00	ORV 75.01 52 eP 24 40.90 -0.3
35.074 N ± 3.1km 139.038 E ± 2.5km	PJG 22.03 165 eP 17 54.60 -0.4	HFS 75.06 335 eP 24 39.80 -1.2
DEPTH = 47.3 ± 5.3 km	GUA 22.09 165 e(P) 17 55.70 0.1	0.7s 17.10nm 5.1mb
5.3mb (76 obs.) 4.5Msz (4 obs.)	1.0s 192.00nm 5.5mb	NB2 75.23 337 P 24 41.30 -0.8
NEAR S. COAST OF HONSHU, JAPAN (230)	HHC 22.37 293 P 17 57.00 -1.3	0.8s 33.80nm 5.3mb
Felt (V) at Yokosuko.	Z 16s 2.30um 4.7MszX	BRK 75.43 54 eP 24 44.00 0.4
CENTROID, MOMENT TENSOR (HRV)	eS 21 55.00	BKS 75.45 54 iPc 24 43.80 0.1
Dato Used: GDSN	CVP 23.11 226 eP 18 18.20 12.7X	0.9s 65.00nm 5.6mb
L.P.B.: 9S, 18C	BTO 23.51 292 eP 18 08.40 -1.0	PCC 75.56 54 eP 24 44.50 0.2
Centroid Location:	N 12s 0.50um	GCC 76.07 55 eP 24 47.30 0.1
Origin Time 07:13: 4.0 0.9	E 12s 1.00um	MHC 76.14 54 eP 24 48.10 0.4
Lot 34.95N 0.13 Lon 138.84E 0.18	XAN 24.78 276 P 18 22.00 0.3	ARN 76.20 54 P 24 48.00 0.0
Dep 15.0 FLX Half-duration 1.5	E 12s 1.00um	FFC 76.39 31 iPc 24 48.00 -0.6
Moment Tensor: Scale 10**16	LZH 28.55 282 eP 18 56.00 -0.4	0.8s 74.00nm 5.7mb
Mrr= 4.44 0.53 Mtt=-2.26 0.50	1.5s 130.00nm 5.3mb	CMB 76.58 53 eP 24 50.50 0.4
Mff=-2.18 0.75 Mrt= 4.12 2.00	Z 18s 1.00um 4.5Msz	SAO 76.59 55 eP 24 50.10 0.0
Mrf= 1.35 1.73 Mtf=-1.33 0.51	N 11s 0.30um	PRS 76.88 55 eP 24 52.20 0.5
Principal Axes:	E 14s 0.70um	LRM 76.89 43 iPc 24 52.10 0.1
T Vol= 6.45 Plg=65 Azm=349	eS 23 40.00	LLA 77.00 54 eP 24 53.10 0.7
N -1.19 9 241	GYA 29.01 262 P 19 00.40 -0.2	PR1 77.45 55 eP 24 56.00 0.9
P -5.26 23 147	N 14s 1.20um	KVN 77.48 51 P 24 55.80 0.5
Best Double Couple:Mo=5.9*10**16	E 14s 1.10um	FR1 77.61 54 eP 24 56.00 0.3
NP1:Strike=220 Dip=3 Slip= 68	SS 24 05.00	HPI 77.79 45 P 24 57.40 0.4
NP2: 64 69 99	GTA 31.35 290 eP 19 20.00 -1.3	BCH 78.38 55 P 25 00.00 -0.2
	1.2s 20.00nm 4.8mb	TNP 78.61 51 P 25 02.00 0.5
MAT 1.61 336 iPd 13 28.30 -1.1	Z 12s 1.50um 4.9MszX	0.8s 35.29nm 5.4mb
iS 13 47.70	E 12s 1.10um	IMW 78.92 44 P 25 04.30 1.1
SHK 5.26 266 eP 14 21.30 0.3	KMI 32.78 262 Pd 19 34.00 0.1	VR1 78.95 319 eP 24 47.50 -15.4X
SAP 8.17 12 eP 15 02.00 0.4	WMQ 40.04 299 P 20 36.50 1.5	FRB 79.10 12 ePc 25 02.90 -0.5
eS 16 33.00	Z 12s 0.60um 4.7MszX	0.7s 38.00nm 5.4mb
MDJ 11.97 326 eP 15 54.00 0.5	E 12s 0.60um	ABL 79.16 55 P 25 05.00 0.4
1.0s 20.00nm 5.1mb	SHL 41.47 270 eP 20 46.50 -0.6	ISA 79.19 54 eP 25 04.00 -0.5
E 12s 2.60um	SDN 45.53 44 eP 21 17.20 -2.1	KRA 79.62 325 ePc 25 06.40 0.0
SS 18 20.00	0.7s 102.90nm 5.8mb	0.8s 52.00nm 5.5mb
CN2 13.63 314 Pc 16 16.00 0.6	TTA 48.12 34 P 21 39.20 -0.5	e 25 10.40
Z 12s 2.10um	0.8s 29.31nm 5.4mb	CLC 79.68 53 eP 25 07.00 -0.1
N 11s 1.50um	SVW 48.22 36 iPc 21 40.90 0.4	DUG 80.09 48 P 25 09.80 0.4
E 11s 1.00um	IMA 49.35 30 eP 21 48.60 -0.6	SBB 80.19 55 eP 25 10.00 0.1
PP 16 23.00	1.0s 32.50nm 5.3mb	PAS 80.27 55 eP 25 10.00 -0.3
eS 18 55.00	i 23 12.40	MWC 80.30 55 eP 25 11.00 0.3</

MMB	83.38	317	iPc	25	27.00	0.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													</
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CLC 32 01 318 eP 26 09.00 0.4
 TNP 33.16 321 P 26 19.00 0.2
 IMW 34.22 335 P 26 27.00 -1.0
 KVN 34.31 322 P 26 29.20 0.5
 LRM 36.41 335 eP 26 45.50 66km
 LBFM 38.01 322 P 27 00.10 0.2
 NEW 40.30 334 P 27 17.60 -1.0
 LON 41.42 328 P 27 27.70 -0.2
 PNT 42.18 333 eP 27 34.00 0.0
 MCW 43.24 330 P 27 42.30 -0.3
 SCH 45.18 20 eP 27 55.00 -3.2X
 RTRS 48.69 154 ePc 28 20.80 -5.1X
 PDOR 58.20 114 (P) 29 35.00 -1.3
 INK 60.68 343 eP 29 51.00 -1.6
 PMR 62.72 333 P 30 05.20 -1.2
 FBA 63.53 337 P 30 09.80 -1.9
 TTA 66.20 333 P 30 27.30 -1.8
 IMA 66.25 337 P 30 27.30 -2.1
 WRA 135.79 256 PKPd 39 01.90 -0.1
 KKN 138.46 4 PKP 39 00.00 -7.1X
 CHG 145.91 342 ePKP 39 20.20 0.1
 LOE 146.27 337 iPKPc 39 21.20 0.5
 BDT 147.37 341 ePKP 39 25.00 2.6X
 S.D. = 1.3 on 55 of 63 obs.

? AUG 05, 1990 12h 27m 43.24± 6.24s
 31.993 S ±38.5km 68.288 W ±43.0km
 DEPTH = 33.0km (normal)
 SAN JUAN PROVINCE, ARGENTINA (137)

RTCV 0.25 302 iPd 27 49.90 -0.5
 ZON 0.56 323 iPd 27 54.50 -0.2
 RTCB 0.67 319 iPd 27 56.00 -0.3
 RTLL 0.68 347 iPd 27 56.90 0.5
 RTBS 1.04 288 iPd 28 02.20 0.6
 S.D. = 0.7 on 5 of 5 obs.

? AUG 05, 1990 13h 09m 02.48± 4.34s
 15.497 N ±16.6km 60.541 W ±42.1km
 DEPTH = 33.0km (normal)
 LEEWARD ISLANDS (92)
 ML 3.0 (FDF).

CRM 0.82 206 eP 09 17.49 -0.1
 MGG 0.86 299 eP 09 17.97 -0.2
 BBL 0.90 272 eP 09 18.66 -0.2
 FDF 0.96 218 iPd 09 19.80 0.1
 MYM 1.00 200 eP 09 20.01 -0.2
 BIM 1.10 208 eP 09 21.91 0.3
 PAG 1.22 296 eP 09 23.59 0.3
 S.D. = 0.3 on 7 of 7 obs.

* AUG 05, 1990 13h 10m 12.74± 1.00s
 1.120 S ±11.6km 12.909 W ±16.6km
 DEPTH = 10.0km (geophysicist)
 4.6mb (12 obs.)
 NORTH OF ASCENSION ISLAND (407)

LIC 10.73 47 P 12 49.46 -0.1
 TIC 11.02 45 P 12 53.10 -0.5
 KIC 11.03 48 P 12 53.60 -0.1
 KRI 44.66 113 iPd 18 15.20 -12.8X
 BUL 44.77 118 iPd 18 28.20 -0.6
 0.8s 7.46nm 4.6mb

KSR 45.54 126 eP 18 34.50 -0.4
 SLR 46.61 125 iPd 18 44.50 1.2
 TDS 48.62 30 P 19 00.00 1.4
 SDI 49.02 26 P 19 03.50 1.7
 MAF 49.08 14 eP 19 03.20 1.1
 BNI 49.16 18 P 19 04.00 1.1
 LPG 49.58 18 eP 19 07.40 1.1
 LPL 49.59 18 eP 19 07.30 1.0
 SSF 50.10 15 eP 19 10.60 0.7
 LBF 50.14 15 eP 19 10.90 0.5
 LOR 50.38 15 eP 19 12.50 0.4
 SOTA 52.57 21 e(P) 19 27.00 -1.8
 FVI 52.61 22 P 19 32.00 3.1X
 SKO 52.94 32 iPd 19 32.50 1.0
 ENN 54.13 15 eP 19 40.50 0.4
 SOP 54.98 24 eP 19 46.00 -0.4
 KHC 55.03 21 eP 19 44.50 -2.3
 WTS 55.48 15 eP 19 50.00 0.1
 MOX 55.66 19 eP 19 51.00 -0.3
 PRU 56.09 21 eP 19 54.50 0.1
 BRG 56.62 20 eP 19 57.90 -0.3
 CLL 56.68 19 eP 19 56.00 -2.6
 KSP 57.43 22 eP 19 56.00 -8.0X
 BBTk 58.30 40 eP 20 00.00 -10.3X
 HFS 64.49 14 eP 20 48.50 -3.2X
 NB2 64.71 13 P 20 51.00 -2.2
 NUR 67.96 19 eP 20 57.00 -16.8X
 S.D. = 1.2 on 26 of 32 obs.

* AUG 05, 1990 13h 11m 25.95± 1.39s
 30.000 S ± 6.0km 72.740 W ±16.1km
 DEPTH = 10.0km (geophysicist)
 OFF COAST OF CENTRAL CHILE (134)

RTRS 2.85 94 iPd 12 12.00 -0.2
 JACH 3.24 146 ePd 12 19.20 1.2
 RTBS 3.28 121 e(P) 12 18.40 0.1
 ROCH 3.31 154 iPd 12 18.20 -0.9
 PEL 3.59 151 eP 12 22.00 -0.9
 LCCH 3.60 164 eP 12 34.00 11.0X
 ZON 3.82 115 eP 12 26.00 -0.1
 RTLL 3.91 111 ePd 12 26.00 -1.4
 FCH 3.92 148 eP 12 29.00 1.2
 TACH 3.95 158 eP 12 27.50 -0.4
 RTCV 4.06 118 e(P) 12 30.10 0.6
 PCH 4.08 153 eP 12 39.00 9.2X
 CFA 4.19 114 ePd 12 30.80 -0.6
 CHCH 4.30 156 eP 12 33.50 0.5
 MDZ 4.39 132 eP 12 38.00 3.7X
 CNCB 13.83 19 eP 14 51.00 6.0X
 CCH 13.93 27 eP 14 46.00 0.0
 LPB 14.06 19 P 14 46.00 -1.9
 ZOBO 14.31 18 eP 14 59.00 7.8X
 SIV 17.58 40 P 15 35.20 2.5
 BAO 26.84 63 e(P) 17 09.00 0.3
 S.D. = 1.2 on 16 of 21 obs.

AUG 05, 1990 14h 15m 00.04± 0.45s
 44.235 N ± 2.8km 6.647 E ± 4.2km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.2 (LDG).

PZZ 0.42 50 P 15 08.61 -0.1
 STV 0.49 89 P 15 09.84 -0.1
 ENR 0.56 91 P 15 11.17 -0.2
 FRF 0.67 180 Pg 15 13.10 -0.3
 SBF 0.68 123 Pg 15 13.50 -0.1
 RRL 0.69 8 P 15 13.94 0.0
 LRG 0.81 195 Pn 15 15.40 -0.3
 BNI 0.82 1 P 15 25.50 9.5X
 ROB 0.88 86 P 15 17.02 0.0
 LMR 0.91 186 Pg 15 18.00 0.6
 IMI 0.95 110 Pn 15 18.25 0.0
 FIN 1.12 91 P 15 21.53 0.4
 LPG 1.26 3 Pg 15 23.70 0.0
 LSD 1.27 16 P 15 23.99 0.1
 LPL 1.28 3 Pg 15 23.90 -0.1
 S.D. = 0.3 on 14 of 15 obs.

AUG 05, 1990 14h 47m 54.41± 0.73s
 51.759 N ± 4.9km 175.276 W ± 2.4km
 DEPTH = 59.4 ± 6.2 km
 5.0mb (69 obs.)
 ANDREANOF ISLANDS, ALEUTIAN IS. (7)
 Felt (IV) on Adok.
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 16S, 24C
 Centroid Location:
 Origin Time 14:47:54.6 1.2
 Lat 52.04N 0.10 Lon 175.01W 0.14
 Dep 45.3 6.6 Half-duration 1.5
 Moment Tensor: Scale 10¹⁶ Nm
 Mrr= 3.84 0.28 Mtt=-4.25 0.38
 Mff= 0.40 0.32 Mrt= 3.60 0.78
 Mrf= 1.75 0.55 Mtf=-1.40 0.56
 Principal Axes:
 T Vol= 5.49 Plg=67 Azm=323
 N 0.71 7 70
 P -6.20 21 163
 Best Double Couple: Mo=5.8*10¹⁶
 NP1: Strike=266 Dip=24 Slip= 107
 NP2: 67 67 82

ADK 0.88 279 iPd 48 10.80 -0.2
 SMY 6.60 283 eP 49 30.10 -0.8
 SDN 9.50 62 eP 50 09.30 -1.6
 SVW 14.29 41 eP 51 16.80 2.0
 TTA 15.20 35 eP 51 29.10 2.5
 PMS 16.96 46 eP 51 49.00 0.1
 PMR 17.29 45 P 51 52.70 -0.1
 IMA 18.01 29 eP 52 03.80 1.9
 TOA 18.78 45 eP 52 10.70 -0.5
 FBA 19.31 37 eP 52 14.80 -2.2
 SIT 23.59 61 P 53 00.00 -0.1
 INK 25.89 35 eP 53 21.00 -0.9
 MBC 32.44 22 eP 54 20.50 0.2
 GMW 33.63 76 eP 54 31.60 0.6
 RMW 34.26 76 eP 54 37.20 0.7
 LON 34.59 77 eP 54 39.50 0.2
 PNT 34.73 72 iPd 54 41.20 0.8
 KAKJ 35.02 261 P 54 43.70 0.7
 NIJJ 35.08 264 P 54 43.70 0.2
 MAT 36.02 264 iPd 54 51.60 0.2
 MDJ 36.67 281 eP 54 56.50 -0.3
 NEW 36.68 72 P 54 57.60 0.7
 0.9s 61.40nm 5.5mb

GRR	25.99 300 eP	37 21.80 -0.7	WRA	26.85 164 Pc	53 51.00 -0.4	MGP	1.94 238 P	59 35.40 -0.6
LPF	0.8s 29 55nm	5.0mb		0.7s 16.90nm	4.7mb		S.D. = 0.9 on 8 of 8 obs.	
QUE	26.08 299 eP	37 22.50 -0.8	NJ2	26.94 345 eP	53 53.00 1.0	7 AUG 05, 1990 19h 08m 46.16 ± 5.70s		
EKA	0.9s 32.75nm	5.0mb	WHN	27.06 336 eP	53 53.50 0.3	44.138 N ± 16.8km	6.791 E ± 34.9km	
KEV	28.68 100 eP	37 47.20 -0.2	MBL	27.90 194 eP	54 00.90 0.1	DEPTH = 10.0km (geophysicist)		(538)
WMO	28.71 314 Pc	37 46.60 -0.6	GYA	27.99 319 P	54 02.00 0.2			
DMN	0.7s 5.10nm	4.4mb	QIS	29.25 155 iPd	54 12.00 -1.0			
KKN	29.84 355 eP	37 51.00 -6.1X	KMI	29.89 312 Pc	54 19.50 0.6	FRANCE		
PKI	39.57 67 P	39 20.00 -0.9	CHG	1.2s 60.00nm	5.2mb	STV	0.40 74 P	08 54.46 0.1
GUN	43.79 90 P	39 56.20 0.3	CHTO	30.01 298 eP	54 20.20 0.4	PZZ	0.43 31 P	09 00.08 0.1
HYB	43.83 90 P	39 56.00 -0.2		0.6s 4.21nm	4.3mb	ENR	0.46 79 P	08 55.74 0.2
GBA	44.04 90 P	39 57.80 -0.2	ASPA	30.32 167 iPd	54 21.70 -0.7	ROB	0.79 78 P	09 01.07 -0.5
TIC	0.8s 54.00nm	5.5mb	XAN	0.6s 18.00nm	5.0mb	IMI	0.82 106 P	09 02.34 0.2
KIC	44.67 107 eP	40 02.00 -0.8	CD2	32.44 332 Pc	54 40.00 -0.9		S.D. = 0.4 on 5 of 5 obs.	
LIC	46.38 112 Pd	40 15.20 -1.1	DL2	32.89 322 eP	54 44.10 -0.8	& AUG 05, 1990 19h 08m 55.28s		
KOD	0.6s 6.60nm	4.8mb	TIY	33.05 353 eP	54 42.00 -4.1X	58.317 N	155.947 W	
GTA	48.23 237 Pc	40 30.70 -0.3	BJI	34.15 339 eP	54 54.60 -1.1	DEPTH = 131.0km		(12)
CD2	0.7s 14.50nm	5.1mb	SNY	35.19 346 eP	55 03.50 -0.8	ALASKA PENINSULA		
HHC	48.27 236 P	40 31.00 -0.2	MRWA	0.7s 41.00nm	5.4mb	<AGS-P>		
XAN	48.56 236 Pc	40 33.18 -0.2	LZH	35.75 356 eP	55 07.70 -1.3	MCNL	1.21 43 iP	09 19.56 -1.1
KMI	0.8s 25.50nm	5.3mb	FORR	36.58 196 eP	55 16.60 0.4	CDD	1.35 62 iP	09 38.38
CD2	48.74 115 eP	40 36.00 0.8	COOL	36.61 328 iPd	55 17.00 -0.1	AUE	1.70 51 iP	09 25.12 -0.9
SHL	49.58 68 eP	40 42.00 0.8	CN2	1.5s 99.00nm	5.4mb	PDB	1.73 31 iP	09 25.13 -1.3
TIY	1.0s 60.00nm	5.6mb	BAL	36.70 178 iPd	55 20.70 0.0	XLV	2.47 61 eP	09 33.84 -1.8
CHG	53.88 70 P	41 13.50 -0.1	KBL	37.12 188 eP	55 22.00 -2.8	HOM	2.60 57 eP	09 35.76 -1.6
FRB	2.0s 71.00nm	5.3mb	MDJ	37.62 358 eP	55 22.00 -2.8	RED	2.66 36 iP	09 36.57 -1.7
CD2	56.29 76 eP	41 30.50 -0.6	SHL	37.72 194 eP	55 26.00 0.3	CNPM	2.73 62 eP	09 36.66 -2.3
XAN	57.13 62 eP	41 37.20 0.1	MUN	38.42 193 eP	55 32.00 0.4	SVW	2.81 3 iP	09 38.86 -1.2
KMI	58.51 70 P	41 45.70 -1.1	NWAO	38.49 3 eP	55 31.50 -0.5	RDT	2.90 37 iP	09 39.43 -1.8
CHG	58.55 82 Pc	41 48.50 1.1	STK	38.66 304 iP	55 33.60 -0.3	NNL	2.95 52 eP	09 40.39 -1.5
FRB	2.5s 80.00nm	5.4mb	RKG	39.15 194 eP	55 38.00 0.4	BRLK	2.99 59 eP	09 40.84 -1.6
CD2	59.20 65 eP	41 51.40 -0.1	GTA	39.82 193 eP	55 44.00 0.9	CKL	3.42 31 eP	09 46.57 -1.6
XAN	59.21 91 eP	41 50.20 -1.6	BRS	0.5s 21.00nm	5.2mb	NKA	3.42 43 eP	09 48.21 0.2
KMI	59.82 330 ePc	41 54.90 -0.4	GUN	0.9s 27.00nm	5.0mb	BGL	3.46 30 eP	09 47.37 -1.4
CHG	1.0s 63.00nm	5.7mb	PKI	40.97 193 eP	55 58.00 5.5X	SPU	3.48 33 iP	09 47.10 -1.9
FRB	60.61 61 eP	42 05.00 4.0X	GTA	41.21 328 iPd	55 55.60 1.0	CRP	3.53 31 eP	09 48.10 -1.6
CD2	1.2s 36.00nm	5.4mb	BRS	0.6s 40.00nm	5.3mb	CGLM	3.60 32 iP	09 48.77 -1.8
XAN	60.79 79 P	42 01.00 -1.6	GUN	41.63 144 iP	55 58.00 -0.1	NCG	3.64 30 eP	09 49.63 -1.5
KMI	62.57 353 ePc	42 14.30 0.5	PKI	44.51 304 P	56 22.20 0.3	SLKM	3.66 51 eP	09 48.95 -2.4
CD2	0.8s 6.00nm	4.8mb	DMN	44.78 303 P	56 23.50 -0.5	SEW	3.79 59 eP	09 50.67 -2.3
HHC	63.58 96 eP	42 03.00 -18.2X	BWA	0.6s 18.00nm	5.0mb	SDN	3.89 222 eP	09 52.01 -2.3
SCH	63.74 321 eP	42 21.00 -0.8	GKN	45.11 155 eP	56 28.00 1.9	SUA	4.10 37 eP	09 55.04 -2.3
WHN	64.25 71 eP	42 25.00 -0.4	CD2	45.57 304 P	56 29.00 -1.0	SKT	4.29 29 eP	09 57.75 -2.0
CN2	64.65 53 eP	42 26.00 -1.9	HYB	0.6s 23.00nm	5.1mb	PMS	4.36 45 eP	09 57.43 -3.3
SLR	65.80 186 eP	42 32.00 -3.5X	GBA	46.12 155 eP	56 35.20 1.1	PWA	4.52 40 eP	10 00.03 -2.8
QIZ	67.42 84 eP	42 46.20 0.3	DZM	47.78 127 iPd	56 46.90 -0.5	TTA	4.63 360 eP	10 03.32 -1.1
SSE	68.83 67 eP	42 53.00 -1.5	HYB	48.50 288 eP	56 52.00 -0.9	PLRM	4.75 43 eP	10 01.84 -4.0
CBM	68.95 314 P	42 55.00 0.0	GTA	49.20 283 Pd	56 58.10 -0.2	GHO	4.94 42 iP	10 04.44 -4.1
INK	71.40 355 eP	43 09.00 -0.5	WMO	0.6s 5.10nm	4.5mb	CUT	4.97 32 eP	10 06.01 -2.9
IMA	73.90 3 P	43 24.60 0.1	NDI	50.93 324 P	57 12.00 0.8	MID	5.11 73 eP	10 07.98 -2.8
FBA	0.6s 3.69nm	4.6mb	QUE	51.99 302 iPd	57 18.00 -1.3	SML	5.18 44 eP	10 07.42 -4.3
MAT	75.23 1 P	43 32.70 0.8	MAIO	0.6s 26.67nm	5.3mb	VZW	5.49 56 eP	10 12.56 -3.5
CD2	0.6s 5.54nm	4.8mb	PMR	61.05 301 eP	58 23.40 -0.4	SCM	5.57 47 eP	10 13.13 -4.0
HHC	76.80 53 (P)	43 42.00 0.6	PPR	68.24 307 iPd	59 10.20 0.2	HUR	5.61 31 eP	10 14.17 -3.4
SCH	1.2s 15.63nm	4.9mb	HRI	87.66 303 e(P)	00 55.00 -1.5	VLZ	5.62 56 iP	10 14.55 -3.2
WHN	76.91 5 P	43 40.80 -0.8	KEV	87.78 340 eP	00 50.00 -6.2X	KLU	5.96 54 iP	10 18.30 -4.2
CN2	78.17 336 eP	43 48.00 -0.6	PRNI	88.59 300 eP	01 02.00 1.0	TOA	6.18 48 eP	10 21.50 -3.9
SLR	0.9s 11.00nm	4.9mb	MBH	88.75 300 eP	01 03.00 1.3	SDG	6.66 46 eP	10 31.42 -0.5
SSE	78.53 1 P	43 50.60 0.3	SUF	89.56 333 eP	01 07.00 2.2	GLB	6.86 58 eP	10 30.85 -3.9
CBM	79.86 86 ePd	44 00.00 1.6	NUR	90.76 331 eP	01 12.00 1.7	TGL	7.10 64 iP	10 34.49 -3.5
INK	84.67 338 eP	44 24.00 1.2	HFS	96.04 332 eP	01 33.70 -0.9	WRH	7.23 28 eP	10 34.54 -5.1
IMA	88.23 341 P	44 40.00 -0.4	NB2	0.4s 1.10nm	4.7mb	DDM	7.35 37 eP	10 37.76 -3.5
FBA	89.20 337 eP	44 45.50 0.2		96.78 334 P	01 37.10 -1.0	BALM	7.40 63 iP	10 38.51 -3.6
S.D. = 1.0 on 189 of 229 obs.				0.9s 2.60nm	4.7mb	CCB	7.45 28 eP	10 37.21 -5.3
AUG 05, 1990 18h 48m 20.92 ± 0.76s				S.D. = 1.0 on 59 of 62 obs.		HDA	7.48 31 eP	10 37.80 -5.1
6.044 N ± 4.5km 126.863 E ± 8.2km				? AUG 05, 1990 18h 59m 02.63 ± 11.50s		FBA	7.66 27 eP	10 40.08 -5.3
DEPTH = 128.6 ± 6.9 km				19.063 N ± 39.5km 65.369 W ± 81.5km		GLM	7.83 28 eP	10 42.74 -5.0
5.0mb (17 obs.)				DEPTH = 10.0km (geophysicist)		DOT	7.86 42 eP	10 43.62 -4.6
MINDANAO, PHILIPPINE ISLANDS (259)				PUERTO RICO REGION (90)		PCA	8.25 71 eP	10 50.27 -3.1
DAV	1.65 309 eP	48 50.70 -0.3	LPR	0.89 212 P	59 20.00 0.3	BCPM	8.55 72 iP	10 54.29 -3.0
CGP	3.22 318 iPd	49 10.00 -1.0	CSB	1.07 224 P	59 22.80 0.0	HQN	8.91 75 eP	10 58.29 -3.9
MNI	5.00 204 ePd	49 34.00 -1.0	CPD	1.14 207 P	59 24.00 0.0	INK	14.10 36 eP	12 05.00 -5.0
PLP	5.42 340 eP	49 43.00 2.3	SJG	1.20 218 P	59 24.80 -0.2			
PPR	8.87 295 ePd	50 27.00 -0.4	PORP	1.57 230 P	59 30.00 -0.5			
BAG	12.00 330 eP	51 11.10 2.0	MCP	1.77 249 P	59 33.00 -0.5			
QIZ	21.01 309 eP	52 55.90 0.1	MEP	1.78 239 (P)	59 35.30 1.7			
SNG	26.10 274 eP	53 45.10 0.5						
WB5	26.80 164 iPd	53 50.00 -0.9						

06d 02h

E	17s	1.30um				Z	16s	2.40um			4.8Mszx	SKO	85.86	312	iP	43	18.10	-0.1
KKM	10.96	203 ePd	33	27.00	8.4X	N	16s	1.10um					1.0s	53.00nm				5.7mb
TSM	12.17	192 ePd	33	37.00	2.2			SS	40	52.00		SRO	86.07	319	iP	43	20.00	0.9
SSE	14.81	2 P	34	10.00	0.4	BTO	25.93	342 P	36	11.00	-0.6	ZST	86.70	319	iP	43	22.60	0.4
	1 2s	28.00nm			4.5mb	N	15s	0.90um				SOP	87.23	319	eP	43	26.50	1.8
Z	18s	1.80um				E	15s	0.80um				PRU	87.61	322 Pd		43	26.80	0.3
N	16s	1.20um						PP	36	20.00			1.0s	14.50nm				5.2mb
E	14s	0.60um						eSS	40	53.50			e			43	39.80	43km
		PP	34	15.50		CN2	27.80	8 P	36	28.00	-0.5	BRG	87.62	323 iPd		43	26.80	0.2
		PP	34	22.60		Z	22s	1.00um			4.4Msx		1.0s	28.00nm				5.5mb
		eS	37	00.00		N	15s	0.80um					e			43	40.00	44km
		SS	37	08.00		E	15s	0.20um				CLL	88.00	323 iPd		43	28.20	-0.2
WHN	15.32	340 eP	34	20.00	3.8X			ePP	36	35.00			1.0s	21.00nm				5.4mb
Z	20s	1.50um				GTA	29.32	326 eP	36	42.40	-0.1	KHC	88.52	321 P		43	31.00	0.0
N	16s	2.20um					1.2s	30.00nm			4.9mb		1.0s	7.00nm				4.9mb
E	14s	1.00um				Z	18s	1.80um			4.7Msx	VBY	88.86	317 eP		43	33.00	0.4
		PP	34	24.50		E	12s	0.50um				MOX	89.07	323 eP		43	33.50	0.0
		SS	37	22.00				SS	41	50.00		CEY	89.31	318 eP		43	34.80	0.0
NJ2	15.82	355 Pc	34	27.00	4.3X	MDJ	29.32	13 Pc	36	42.00	-0.2	BHG	89.51	320 iPc		43	36.30	0.6
Z	19s	1.50um				E	14s	0.50um					1.0s	28.00nm				5.5mb
N	15s	1.50um				GUN	34.01	296 P	37	23.60	-0.4	VOY	89.54	318 iP		43	35.40	-0.6
E	15s	1.00um					0.8s	73.00nm			5.7mb	GRC1	89.81	321 eP		43	37.50	0.4
GYA	16.41	311 iPc	34	32.00	1.7	PKI	34.34	295 P	37	25.70	-1.1		0.9s	34.00nm				5.6mb
Z	28s	1.10um					1.0s	39.00nm			5.3mb	FV1	90.03	319 P		43	37.00	-1.0
N	15s	1.30um				KKN	34.50	296 P	37	27.20	-0.8	ORI	90.05	312 P		43	37.00	-1.4
E	15s	1.30um					1.0s	42.00nm			5.3mb	TDS	90.28	312 Pc		43	40.00	0.6
LOE	18.01	276 eP	34	51.00	0.8	DMN	34.61	295 P	37	28.20	-0.9	MGR	90.66	312 P		43	40.00	-1.2
KMI	18.81	301 Pd	35	02.00	1.7		1.0s	48.00nm			5.4mb	SQTA	90.75	320 iPd		43	41.40	-0.2
	2.5s	150.00nm			4.8mb	GKN	35.10	296 P	37	31.80	-1.3		0.8s	45.80nm				5.9mb
Z	20s	1.90um			4.5Msx		1.0s	62.00nm			5.5mb	DUI	90.86	314 P		43	41.00</	

LPF 0.7s 6.60nm 5.3mb
 97.55 325 eP 44 12.70 0.2
 0.8s 8.05nm 5.3mb
 RJF 97.57 321 eP 44 13.00 0.3
 0.8s 10.75nm 5.4mb
 MFF 97.84 323 eP 44 13.90 0.0
 0.8s 8.05nm 5.3mb
 KIC 121.36 288 (PKP) 49 31.70 -1.0
 LIC 121.67 288 (PKP) 49 32.50 -0.8
 ZOBO 171.72 91 ePKP 50 51.00 3.2X
 Z 24s 0.06um
 LR 50 12.00
 SIV 178.47 81 PKP 50 49.20 0.3
 i 52 40.00

S.D. = 0.9 on 141 of 156 obs.

* AUG 06, 1990 02h 42m 06.89 ± 2.55s
 31.145 S ± 10.8km 68.474 W ± 19.1km
 DEPTH = 103.2 ± 19.6 km

SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.18 179 iPc 42 21.40 -0.6
 ZON 0.44 204 iPd 42 23.00 0.1
 eS 42 35.00
 RTCB 0.44 219 P 42 23.00 0.1
 CFA 0.50 156 iPd 42 23.50 0.2
 eS 42 35.90
 RTCV 0.72 184 e(P) 42 24.30 -0.7
 RTBS 0.98 238 ePc 42 28.00 0.4
 RTRS 1.29 319 iPc 42 31.30 0.2
 MDZ 1.76 190 eP 42 38.20 1.1
 iS 42 59.30
 JACH 2.37 229 iP 42 46.00 1.0
 i 43 17.00
 FCH 2.67 215 eP 42 50.00 0.7
 i 43 25.00
 PEL 2.74 223 eP 42 49.50 -0.5
 iS 43 22.10
 ROCH 2.82 229 iP 42 50.60 -0.7
 e 43 23.50
 PCH 3.01 214 eP 42 54.00 0.3
 e 43 31.00
 TACH 3.26 219 iPc 42 55.80 -1.2
 iS 43 34.60
 CHCH 3.33 213 iPd 42 57.60 -0.5
 i 43 38.00

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

AUG 06, 1990 03h 26m 10.58 ± 0.67s
 39.163 N ± 6.7km 20.525 E ± 6.1km
 DEPTH = 10.0km (geophysicist)

GREECE-ALBANIA BORDER REGION (392)

ML 3.7 (ATH).

KEK 0.79 315 ePn 26 25.20 -0.7
 SRN 0.82 331 iPg 26 28.90 2.4
 LSK 0.99 3 ePg 26 28.80 -0.6
 EVR 1.03 103 ePn 26 27.80 -2.3
 TPE 1.20 341 ePn 26 31.20 -1.7
 KZN 1.49 40 ePn 26 37.60 0.1
 NEO 2.10 85 ePn 26 47.10 0.8
 ITM 2.27 150 ePn 26 48.50 -0.2
 LCI 2.30 301 P 26 48.00 -1.1
 PHP 2.52 359 ePn 26 52.60 0.4
 PLG 2.56 61 ePn 26 52.40 -0.4
 VAY 2.66 35 ePn 26 54.50 0.2
 ATH 2.77 114 ePb 27 05.00 9.2X
 SKO 2.89 14 ePn 26 57.00 -0.5
 iSn 27 34.00
 PUK 2.92 351 ePn 27 00.10 2.3
 SDA 2.96 345 ePn 26 57.70 -0.6
 BRT 3.07 305 P 27 20.00 20.0X
 VLI 3.10 141 ePn 27 02.00 1.6
 BCI 3.22 354 ePn 27 03.00 0.9
 ORI 3.27 287 P 27 20.00 17.0X
 SOI 3.67 254 P 27 10.00 1.5
 MGR 3.96 286 P 27 10.00 -2.6
 SDI 5.71 299 P 27 38.00 0.4

S.D. = 1.5 on 20 of 23 obs.

AUG 06, 1990 03h 29m 01.40 ± 0.59s
 17.337 N ± 6.8km 120.831 E ± 7.9km
 DEPTH = 10.0km (geophysicist)

4.5mb (7 obs.) 4.2Msz (3 obs.)

LUZON, PHILIPPINE ISLANDS (249)

SZP 0.42 301 ePd 29 11.00 1.1

BAG 0.95 195 iPc+ 29 19.50 -0.1
 CVP 1.01 69 iPd 29 21.50 0.9
 eS 29 55.00
 QCP 2.69 175 eP 29 41.00 -4.6X
 PGP 3.81 178 eP 30 03.00 1.5
 iS 30 21.00
 PLP 7.33 146 eP 30 55.00 3.8X
 PPR 7.79 195 eP 31 04.00 6.5X
 QZH 7.85 345 eP 30 56.40 -2.0

N 13s 0.90um

GZH 9.06 310 eP 31 14.00 -1.2
 QIZ 10.58 281 eP 31 34.40 -1.8
 N 14s 2.00um
 eS 33 34.20
 SSE 13.70 1 eP 32 17.00 -1.1
 Z 20s 0.50um
 E 14s 1.30um
 eSS 35 03.00

WHN 14.41 337 eP 32 29.50 2.0

NJ2 14.76 353 eP 32 35.00 3.0X
 N 12s 0.30um
 E 15s 1.30um
 GYA 15.96 307 P 32 49.00 1.1
 N 13s 1.10um
 E 13s 1.00um

KMI 18.55 298 eP 33 25.00 4.6X

Z 16s 1.20um
 N 12s 0.80um
 TIA 19.09 351 eP 33 30.60 3.9X
 E 14s 0.70um

CD2 20.59 314 eP 33 43.40 0.1

N 11s 1.30um
 CHG 20.86 277 eP 33 49.70 3.6X
 CHTO 20.86 277 eP 33 46.30 0.2
 0.9s 2.34nm 3.6mb

DL2 21.50 2 eP 33 51.00 -1.5

BJ1 22.98 351 eP 34 08.00 0.9
 1.0s 24.00nm 4.7mb
 Z 24s 0.38um 3.8Mszx
 E 14s 0.50um

GUMO 23.46 96 eP 34 15.00 3.0X

Z 20s 0.39um 3.9Msz
 eS 38 16.00
 LZH 23.99 324 Pc 34 20.00 2.8
 2.5s 64.00nm 4.8mb
 Z 20s 1.00um 4.3Msz
 N 12s 0.40um
 E 12s 0.50um

eSS 38 44.00

SNY 24.52 5 Pd 34 21.40 -0.7
 0.8s 30.00nm 5.0mb
 eS 38 40.00
 HHC 24.76 343 eP 34 27.00 2.4
 BTO 24.99 340 eP 34 29.00 2.2
 N 14s 0.50um
 E 14s 0.90um

CN2 26.67 7 eP 34 39.00 -3.3X

Z 18s 0.70um 4.3Msz
 MDJ 28.18 13 eP 34 55.60 -0.4
 GUN 33.83 294 P 35 46.60 0.1
 KKN 34.33 294 P 35 50.20 -0.5
 GKN 34.93 294 P 35 54.40 -1.4
 WRA 39.35 160 Pc 36 32.20 -0.6
 1.4s 7.60nm 4.2mb

KEV 75.20 339 eP 40 49.00 3.4X

NUR 78.08 330 eP 40 49.00 -12.8X
 INK 79.68 21 eP 41 07.00 -3.4X
 MBC 79.98 12 eP 41 10.00 -1.9
 HFS 83.36 331 eP 41 29.00 -0.8
 0.6s 1.80nm 4.5mb

NB2 84.11 333 P 41 32.40 -1.3

0.8s 1.60nm 4.3mb
 VAY 84.75 312 eP 41 37.30 0.1
 S.D. = 1.4 on 27 of 39 obs.

AUG 06, 1990 03h 29m 49.01 ± 0.48s

43.409 N ± 5.1km 10.212 E ± 3.4km

DEPTH = 10.1 ± 2.7 km

CENTRAL ITALY (381)

ML 2.8 (LDG).

P11 0.39 36 Pc 29 55.80 -1.1

eSg 30 00.50
 MME 0.86 24 P 30 04.60 -1.1
 eSg 30 16.40
 PGD 1.19 66 Pc 30 11.30 0.0
 MAO 1.21 145 P 30 11.90 0.4
 PGF 1.24 226 Pn 30 12.70 0.6
 Sn 30 27.80
 CRE 1.28 80 P 30 13.50 0.6
 SFI 1.30 66 P 30 12.50 -0.5
 iSn 30 29.00
 PCP 1.65 314 P 30 20.53 2.3
 S 30 41.17
 FIN 1.66 300 P 30 18.54 0.3
 S 30 39.20
 CKI 1.73 307 P 30 19.00 -0.2
 eSn 30 42.00

IMI 1.76 287 P 30 18.92 -0.9

S 30 38.84
 ROB 1.91 298 P 30 21.00 -1.0
 S 30 42.61
 SBF 2.07 284 Pn 30 25.40 1.2
 ENR 2.18 293 P 30 25.56 -0.3
 SAL 2.21 6 P 30 25.50 -0.7
 STV 2.25 293 P 30 26.94 0.0
 S 30 51.58

MDI 2.39 352 P 30 29.00 0.2

DOI 2.41 298 P 30 29.50 0.4
 PZZ 2.50 297 P 30 29.61 -0.9
 FRF 2.60 275 Pn 30 30.70 -1.1
 Sn 31 00.60

LMR 2.70 270 Pn 30 32.00 -1.3

ORX 2.74 325 P 30 34.00 0.1
 LRG 2.81 272 Pn 30 33.30 -1.4
 RRL 2.89 303 P 30 36.51 0.3
 LPG 3.24 311 Pn 30 42.30 1.1
 LPL 3.26 311 Pn 30 42.40 1.0
 TRI 3.42 47 eP 31 19.90 36.4X
 SOTA 3.88 10 ePn 30 52.00 2.0

i 31 01.30

e 31 33.00
 i 31 39.60
 BSF 5.03 333 Pn 31 06.20 -0.2
 HAU 5.33 331 Pn 31 10.60 0.0
 Sn 32 10.60

CDF 5.41 339 Pn 31 11.20 -0.5

S.D. = 1.0 on 30 of 31 obs.
 ? AUG 06, 1990 03h 47m 57.37 ± 4.36s
 6.887 S ± 25.8km 130.162 E ± 18.5km
 DEPTH = 117.7 ± 47.6 km
 4.1mb (2 obs.)

BANDA SEA (280)

MTN 6.00 171 iPd 49 26.00 0.9
 iS 50 30.00
 KNA 8.91 189 eP 50 04.00 -0.7
 eS 51 35.00
 WB5 13.55 163 eP 51 03.80 -2.1X
 eS 53 30.00

WRA 13.60 163 Pc 51 05.10 -1.5

0.5s 4.20nm 4.1mb
 QIS 16.38 147 eP 51 42.00 0.2
 eS 54 33.00
 ASPA 17.07 168 eP 51 51.30 1.0
 0.8s 11.00nm 4.2mb

eS 54 49.90

MBL 17.35 214 eP 51 54.00 0.3
 eS 54 50.00
 CTA 20.39 132 eP 52 32.00 5.0X
 PKI 55.17 310 P 57 20.80 0.2
 KKN 55.39 311 P 57 21.80 -0.2
 GKN 55.98 310 P 57 26.20 0.0

CNCB 150.40 143 PKPc 07 42.00 9.5X

LPB 150.54 142 PKP 07 42.00 9.5X
 ZOBO 150.73 142 PKPc 07 43.00 10.0X
 PPD 151.22 177 ePKP 07 40.80 7.9X

S.D. = 1.0 on 9 of 15 obs.

% AUG 06, 1990 05h 59m 25.58 ± 1.68s
 43.994 N ± 14.0km 7.542 E ± 10.4km
 DEPTH = 10.0km (geophysicist)

NEAR SOUTH COAST OF FRANCE (379)

ML 1.7 (GEN).

ENR 0.25 339 P 59 31.07 0.2

S 59 34.07

IMI 0.26 108 P 59 31.24 0.0

06d 05h

STV 0.30 328 P S 59 34.60
 S 59 32.13 0.3
 S 59 35.86
 ROB 0.38 38 P S 59 33.40 0.0
 S 59 38.20
 PZZ 0.60 328 P S 59 37.32 -0.5
 S 59 44.98
 S.D. = 0.4 on 5 of 5 obs.

AUG 06, 1990 06h 48m 00.54 ± 1.41s
 44.073 N ± 3.5km 128.610 W ± 13.3km
 DEPTH = 10.0km (geophysicist)
 OFF COAST OF OREGON (30)
 CL 3.4 (SEA).

KMOR 3.96 65 P 49 01.58 -1.2
 S 49 51.57
 NLO 4.17 59 P 49 06.09 0.4
 ONR 4.41 49 P 49 09.52 0.5
 BMW 4.49 56 P 49 09.83 -0.4
 S 50 05.10
 PGO 4.60 70 P 49 12.02 0.3
 RVW 4.64 61 P 49 12.79 0.4
 FHC 4.73 132 eP 49 43.00 29.3X
 OOW 4.79 39 P 49 14.34 -0.1
 CPW 4.82 51 P 49 14.32 -0.6
 LVP 4.83 63 P 49 15.01 0.0
 VLMM 4.90 70 P 49 15.69 -0.4
 CZM 4.91 59 P 49 16.30 0.1
 APW 4.93 56 P 49 16.01 -0.4
 MTMW 4.94 64 P 49 15.92 -0.7
 S 50 17.38
 ERK 4.96 61 P 49 16.57 -0.4
 SHW 4.98 63 P 49 18.09 0.8
 TDH 5.01 74 P 49 17.22 -0.5
 JLK 5.02 63 P 49 18.79 1.0
 REMW 5.02 63 P 49 20.13 2.3
 ESD 5.04 63 P 49 19.52 1.4
 TCO 5.05 87 P 49 18.68 0.4
 TDL 5.06 61 P 49 16.08 -2.3
 SOSW 5.06 62 P 49 19.39 1.0
 CDFW 5.08 64 P 49 18.23 -0.3
 OSD 5.08 41 P 49 18.35 -0.3
 VBEM 5.11 76 P 49 18.03 -1.1
 KOSW 5.12 60 P 49 19.29 0.1
 VLL 5.13 72 P 49 19.07 -0.2
 LMW 5.15 58 P 49 19.89 0.2
 VFP 5.24 74 P 49 20.88 -0.1
 HDW 5.28 45 P 49 21.26 -0.1
 GULW 5.31 67 P 49 21.79 -0.1
 GHW 5.35 54 P 49 22.40 0.1
 GMW 5.35 47 P 49 21.90 -0.5
 ASR 5.38 65 P 49 22.43 -0.5
 RVC 5.48 56 P 49 24.62 0.4
 LON 5.49 58 P 49 24.42 0.1
 REMR 5.50 58 P 49 25.31 0.7
 GLK 5.53 61 P 49 26.19 1.2
 BLN 5.56 43 P 49 25.71 0.4
 WPW 5.63 60 P 49 25.80 -0.6
 LBFM 5.65 117 eP 49 30.00 3.2X
 FMW 5.65 57 P 49 26.94 0.1
 WDC 5.69 126 eP 49 44.80 17.6X
 GSM 5.71 54 P 49 27.68 0.1
 VIPM 5.75 83 P 49 26.72 -1.5
 RMW 5.84 52 P 49 29.56 0.2
 HTW 6.06 50 P 49 32.11 -0.2
 MCW 6.10 39 P 49 32.73 -0.2
 JCW 6.21 46 P 49 34.41 0.0
 CMW 6.26 44 P 49 35.48 0.2
 MXC 6.38 64 P 49 36.15 -0.7
 MIN 6.40 123 eP 49 44.30 7.0X
 RPW 6.58 46 P 49 39.46 -0.3
 MDW 6.73 65 P 49 40.81 -1.1
 ETW 6.78 56 P 49 42.58 0.0
 RSW 6.78 67 P 49 42.11 -0.5
 WAH2 6.91 64 P 49 43.73 -0.6
 GBL 6.93 65 P 49 45.71 1.2
 ORV 6.97 128 eP 49 45.20 0.1
 LOCW 6.98 65 P 49 45.54 0.2
 CRF 7.05 64 P 49 45.42 -0.8
 RC1 7.06 63 P 49 47.17 0.8
 EPH 7.11 59 P 49 47.33 0.2
 ET2 7.24 67 P 49 49.80 0.8
 PNT 8.10 47 eP 50 02.00 1.0
 0.6s 8.00nm 5.1mb X
 CMB 8.66 131 eP 50 09.00 0.2
 KVN 9.34 119 eP 50 16.50 -1.8

FRI 9.79 133 eP 50 24.70 0.4
 ISA 11.45 134 eP 50 47.00 -0.1
 LRM 11.59 76 eP 50 52.40 3.2X
 SBB 12.54 135 eP 51 01.00 -0.8
 GSC 12.61 130 eP 51 04.00 1.1
 IMW 12.73 85 eP 51 06.00 1.4
 BAR 14.71 137 eP 51 25.00 -5.5X
 GLA 15.38 131 eP 51 39.00 -0.2
 FFC 20.22 49 eP 52 36.00 -2.2
 INK 24.43 356 eP 53 48.00 28.1X
 MEO 24.87 102 e(P) 53 26.50 2.0
 UYO 28.11 99 e(P) 54 03.00 8.6X
 S.D. = 0.8 on 72 of 80 obs.

AUG 06, 1990 07h 15m 05.36 ± 0.89s
 43.955 N ± 8.9km 20.600 E ± 9.7km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)
 ML 2.5 (TTG).

PLE 1.08 235 ePg 15 24.50 -1.2
 eSg 15 40.50
 IVA 1.20 206 eSg 15 27.50 -0.2
 eSg 15 47.20
 PVY 1.43 199 ePg 15 31.50 0.0
 eSg 15 54.00
 NKY 1.63 226 ePg 15 35.50 1.2
 eSn 16 01.00
 TTG 1.81 213 ePn 15 36.30 -0.5
 eSn 16 03.00
 SKO 2.08 162 ePn 15 40.70 0.0
 i 15 46.00
 SDA 2.10 203 ePn 15 44.50 3.5X
 HCY 2.15 226 ePn 15 42.50 0.7
 eSn 16 10.00
 PHP 2.27 183 ePn 15 43.30 -0.1
 DEV 2.53 40 ePc 15 47.00 -0.1
 TIR 2.66 192 ePn 15 50.30 1.2
 TNR 3.12 56 ePc 16 02.00 6.5X
 TPE 3.68 187 ePn 16 02.50 -1.1
 PTJ 3.83 302 e(Pn) 16 14.10 8.4X
 eSn 16 50.90
 CEY 4.74 294 eP 17 15.50 56.9X
 VOY 5.19 296 e(Pn) 16 16.50 -8.5X
 e(Sn) 17 13.60
 S.D. = 0.9 on 11 of 16 obs.

AUG 06, 1990 07h 28m 33.03 ± 2.81s
 43.828 N ± 11.3km 7.577 E ± 19.3km
 DEPTH = 10.0km (geophysicist)
 NEAR SOUTH COAST OF FRANCE (379)
 MD 1.0 (STR).

SAOF 0.16 354 Pg 28 36.74 0.0
 REVF 0.18 240 Pg 28 37.06 0.0
 AURF 0.19 288 Pg 28 37.12 -0.2
 Sg 28 41.85
 AUTN 0.20 327 Pg 28 37.44 -0.1
 TOUF 0.30 308 Pg 28 39.62 0.2
 Sg 28 46.03
 S.D. = 0.2 on 5 of 5 obs.

AUG 06, 1990 07h 42m 16.70 ± 0.55s
 44.235 N ± 6.0km 7.419 E ± 4.6km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 1.9 (GEN).

ENR 0.01 173 P 42 18.38 -0.3
 S 42 20.02
 STV 0.07 277 P 42 19.20 0.1
 S 42 20.94
 ROB 0.33 79 P 42 23.81 0.2
 S 42 28.53
 PZZ 0.35 320 P 42 23.81 -0.2
 S 42 28.94
 IMI 0.47 134 P 42 26.48 0.2
 S 42 33.66
 FIN 0.57 92 P 42 27.71 -0.5
 S 42 35.71
 RRL 0.82 327 P 42 32.94 0.2
 PCP 0.86 69 P 42 33.45 0.1
 S 42 44.32
 S.D. = 0.3 on 8 of 8 obs.

AUG 06, 1990 08h 27m 18.88 ± 0.33s
 43.706 N ± 3.7km 12.135 E ± 2.9km

DEPTH = 12.1 ± 2.3 km
 CENTRAL ITALY (381)
 MD 3.4 (TRI). ML 3.2 (LDG).

CRE 0.15 240 Pc 27 22.60 -0.2
 eSg 27 25.40
 SFI 0.30 316 Pc 27 25.40 0.2
 eSg 27 30.90
 PGD 0.34 300 Pc 27 26.50 0.3
 eSg 27 33.20
 ASS 0.74 149 P 27 34.00 0.7
 eSg 27 44.00
 MME 1.15 296 P 27 41.10 0.8
 PII 1.17 271 P 27 41.00 0.5
 eSg 27 57.80
 MNS 1.38 163 P 27 44.00 0.1
 AZI 1.97 150 P 27 54.00 1.7
 TRI 2.32 30 ePn 27 57.00 -0.3
 iSg 28 34.70
 SDI 2.35 148 P 27 57.50 -0.4
 PGF 2.57 244 Pn 28 01.00 -0.1
 CEY 2.61 38 e(Pn) 28 01.60 0.1
 eSn 28 34.00
 VOY 2.64 28 ePn 28 00.50 -1.6
 e(Sn) 28 41.10
 PCP 2.72 289 P 28 02.87 -0.3
 S 28 35.66
 VBY 2.86 50 ePn 28 16.20 11.1X
 e 28 38.20
 iSn 28 56.20
 CKI 2.87 286 P 28 05.00 -0.2
 FIN 2.88 281 P 28 04.41 -1.0
 S 28 37.72
 LJU 2.89 35 ePn 28 05.80 0.3
 e(Sn) 28 50.00
 FVI 2.92 9 P 28 06.00 0.1
 IMI 3.08 275 P 28 07.69 -0.6
 S 28 42.29
 ROB 3.13 282 P 28 08.21 -0.8
 S 28 42.97
 HVAR 3.19 98 iPn 28 08.60 -1.1
 OSS 3.30 335 ePc 28 14.60 3.1X
 TMA 3.34 317 ePc 28 14.10 2.1
 VDL 3.36 327 ePc 28 14.90 2.5X
 SBF 3.41 274 Pn 28 13.00 0.1
 Sn 28 51.40
 ENR 3.44 280 P 28 13.23 -0.2
 S 28 52.78
 STV 3.51 280 P 28 13.29 -1.1
 S 28 55.34
 ORX 3.53 304 P 28 14.15 -0.6
 SOTA 3.57 350 iPnc 28 18.00 2.7X
 i 28 19.60
 iSn 29 03.40
 i 29 08.20
 DOI 3.61 284 P 28 15.50 -0.4
 PZZ 3.71 284 P 28 16.10 -1.3
 LLS 3.86 326 ePc 28 22.30 2.8X
 LSD 3.96 298 P 28 19.91 -1.1
 FRF 3.99 270 Pn 28 21.30 0.2
 RRL 4.03 289 P 28 24.10 2.2
 SAX 4.05 332 ePc 28 24.90 2.7X
 LMR 4.11 267 Pn 28 22.20 -0.6
 LRG 4.20 269 Pn 28 23.80 -0.3
 LPG 4.24 297 Pn 28 26.00 1.0
 KHC 5.52 10 ePg 28 42.90 0.1
 eSg 29 47.50
 BSF 5.57 320 Pn 28 44.80 1.2
 Sn 29 47.00
 CDF 5.79 326 Pn 28 47.20 0.5
 HAU 5.90 319 Pn 28 48.70 0.6
 Sn 29 54.30
 SMF 6.56 300 Pn 28 57.30 -0.2
 LBF 6.62 303 Pn 28 57.80 -0.5
 S.D. = 0.9 on 40 of 46 obs.

AUG 06, 1990 08h 38m 04.06 ± 1.65s
 52.311 N ± 31.5km 169.521 W ± 15.2k
 DEPTH = 33.0km (normal)
 4.6mb (2 obs.)

FOX ISLANDS, ALEUTIAN ISLANDS (95)

ADK 4.44 267 eP 39 11.00 0.2
 TTA 12.84 29 e(P) 41 11.00 4.2
 FBA 16.82 33 e(P) 41 58.00 -0.3
 INK 23.45 33 eP 43 12.00 1.3
 SES 35.72 69 eP 45 01.00 -0.2

KVN 37.50 90 e(P) 45 23.00 6.5X
 NB2 67.00 360 P 48 54.80 -0.4
 0.8s 2.50nm 4.4mb
 HFS 67.88 358 eP 49 00.10 -0.6
 1.1s 9.20nm 4.8mb
 S.D. = 0.9 on 6 of 8 obs.

AUG 06, 1990 08h 40m 01.59± 0.52s
 24.121 S ± 4.0km 66.831 W ± 6.2km
 DEPTH = 180.6 ± 5.5 km
 4.6mb (9 obs.)

SALTA PROVINCE, ARGENTINA (129)

ANT 3.31 276 iPc 40 53.00 -1.5
 iS 41 30.40
 RTLL 7.33 191 ePc 41 46.00 -1.0
 CNCB 7.35 351 iPd 41 49.20 1.3
 S 43 10.00
 RTCB 7.54 193 eP 41 49.60 -0.3
 CFA 7.56 189 ePc 41 49.20 -0.9
 e 41 51.10
 LPB 7.64 351 P 41 52.00 0.4
 S 43 19.00
 RTCV 7.86 191 e(P) 41 53.60 -0.4
 RTBS 7.86 197 e(P) 41 54.20 0.2
 ZOBO 7.90 351 iPd 41 56.00 0.8
 S 43 21.00
 MDZ 8.91 191 e(P) 42 09.80 2.0
 PEL 9.61 200 eP 42 16.00 -0.9
 FCH 9.66 198 eP 42 19.50 1.6
 SIV 9.73 35 iPc 42 18.00 -0.6
 PCH 10.00 198 eP 42 23.00 0.9
 TACH 10.16 200 eP 42 22.50 -1.6
 PPD 14.43 85 eP 43 20.40 1.6
 e 43 23.30
 e 43 28.70
 e 43 30.50
 e 43 32.90
 e 43 46.40

NNA 15.36 320 iP 43 30.30 -0.1
 0.9s 12.60nm 4.3mb
 i(S) 46 13.00

BAO 19.61 68 eP 44 18.50 0.2
 BMA 20.86 91 eP 44 31.40 0.7
 e 44 34.00
 e 44 45.40

PDCR 28.66 71 eP 45 42.30 -1.3
 JSC 59.67 346 P 49 47.40 -1.5
 UYO 63.64 335 iPc 50 14.00 -1.4
 OLY 63.72 338 P 50 14.40 -1.5
 ELC 64.62 340 P 50 19.50 -2.2
 FVM 65.63 340 P 50 26.20 -2.0
 LNO 65.69 334 e(P) 50 27.20 -1.2
 TUL 65.69 334 eP 50 27.40 -1.2
 1.1s 9.20nm 4.5mb
 e 50 31.10
 e 51 15.90

SIO 65.75 334 e(P) 50 27.50 -1.5
 SPA 66.02 180 iPd 50 30.80 0.2
 0.8s 35.83nm 5.2mb
 KIC 67.64 72 (P) 50 40.30 -1.0
 0.6s 9.50nm 4.7mb

ALO 69.73 326 ePd 50 53.20 -0.8
 1.0s 12.00nm 4.6mb

ANMO 69.73 326 P 50 53.80 -0.2
 0.9s 9.19nm 4.5mb

GLD 72.94 330 P 51 13.10 0.1
 GLA 72.97 319 eP 51 13.00 -0.1
 GOL 72.97 330 P 51 12.80 -0.4
 1.1s 8.01nm 4.4mb

SBA 73.61 190 eP 51 17.80 1.7
 BAR 73.82 318 eP 51 18.00 -0.1
 PLM 74.40 318 eP 51 23.00 1.4
 TPC 74.43 319 eP 51 22.00 0.4
 RVR 75.15 318 eP 51 26.00 0.4
 MSU 75.42 325 P 51 27.80 0.5
 GSC 75.71 320 eP 51 29.00 0.2
 SBB 75.90 319 eP 51 30.00 0.1
 DAU 76.36 327 P 51 33.30 0.7
 CLC 76.53 320 eP 51 33.00 -0.4
 ABL 76.85 318 P 51 35.80 0.4
 ISA 76.95 319 eP 51 36.00 0.3
 DUG 76.99 326 P 51 36.50 0.6
 BCH 77.60 318 P 51 40.10 0.7
 TNP 77.87 322 P 51 41.00 0.1
 0.9s 5.86nm 4.3mb

PHAM 78.23 318 P 51 43.40 0.8

FRI 78.58 319 eP 51 46.80 2.3
 PRI 78.59 318 eP 51 46.00 1.3
 PTI 78.75 328 P 51 46.10 0.5
 IMW 78.84 329 P 51 46.20 0.0
 KVN 79.04 322 P 51 47.10 -0.1
 LLA 79.07 318 eP 51 48.00 0.8
 PRS 79.14 318 eP 51 48.60 1.0
 CMB 79.67 320 eP 51 52.70 2.3
 ARN 79.91 319 P 51 52.50 0.8
 MHC 79.97 319 eP 51 53.50 1.4
 LRM 81.00 330 eP 51 57.80 0.3
 MAW 81.28 163 eP 51 57.00 -1.3
 1.0s 44.00nm 5.1mb

ORV 81.33 320 eP 52 00.20 1.2
 WDC 82.60 321 e(P) 52 03.90 -1.7
 LBFM 82.73 322 P 52 06.40 -0.1
 SES 83.86 333 ePd 52 11.40 -0.4
 LON 86.24 326 P 52 23.30 -0.4
 BUL 86.69 110 iPc 52 25.20 -1.5
 RMW 86.71 326 P 52 25.10 -0.9
 PNT 86.88 329 eP 52 28.00 1.3
 GMW 87.27 326 P 52 26.20 -2.4
 KRI 88.93 108 iPd 52 33.00 -4.4X
 ASPA 128.41 204 iPKPd 58 48.40 -0.5
 0.8s 12.00nm

WRA 131.59 207 PKPc 58 55.10 0.2
 0.6s 4.80nm

WB5 131.63 207 ePKP 58 55.20 0.2
 e 02 02.30

NDI 147.56 74 ePKP 59 24.50 1.2
 GUA 148.24 256 ePKP 59 28.30 3.6X
 0.8s 95.52nm

GUMO 148.30 256 ePKP 59 28.30 3.5X
 1.1s 150.77nm

PJG 148.30 256 ePKP 59 37.50 12.7X
 MAT 155.17 306 ePKP 59 44.00 9.8X
 1.0s 13.00nm

S.D. = 1.1 on 76 of 81 obs.

AUG 06, 1990 09h 08m 48.52± 0.60s
 38.163 N ± 5.2km 23.094 E ± 7.5km
 DEPTH = 10.0km (geophysicist)

GREECE (364)

ML 3.3 (ATH).

ATH 0.53 111 ePg 08 59.80 0.6
 eSg 09 07.60

NEO 1.15 5 ePg 09 10.50 0.5
 EVR 1.26 307 ePg 09 12.40 0.4
 eSb 09 30.00

ITM 1.35 224 ePb 09 13.60 0.2
 VLI 1.45 185 ePb 09 14.00 -0.7
 eSb 09 36.70

APE 2.22 119 ePg 09 31.50 5.5X
 eSn 10 00.50

PLG 2.23 7 ePn 09 24.00 -2.0
 KZN 2.38 335 ePn 09 28.20 0.0
 PRK 2.71 65 ePb 09 36.00 3.1X
 VAM 2.89 162 ePn 09 35.50 0.1
 KEK 3.00 302 ePg 09 46.00 9.0X
 VAY 3.18 353 ePn 09 40.40 0.9

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

AUG 06, 1990 09h 55m 25.30± 0.89s
 31.687 S ± 12.7km 68.871 W ± 7.7km
 DEPTH = 33.0km (normol)

SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.21 17 iPc 55 31.50 -0.6
 ZON 0.22 50 iPc 55 32.00 -0.2
 RTCV 0.33 121 eP 55 33.00 -0.6
 RTLL 0.49 44 ePc 55 36.00 0.1
 RTBS 0.50 273 ePd 55 36.20 0.4
 CFA 0.55 82 ePc 55 37.50 0.9
 eS 55 45.50

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

AUG 06, 1990 10h 06m 20.39± 1.24s
 43.709 N ± 10.3km 12 087 E ± 11.8km
 DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)

CRE 0.13 231 P 06 23.00 -0.6
 eSg 06 26.40

SFI 0.27 321 P 06 25.90 -0.2
 eSg 06 31.20

PGD 0.31 302 P 06 26.90 -0.1

eSg 06 33.00
 ASS 0.76 147 P 06 35.50 0.2
 PII 1.13 271 P 06 42.30 0.7
 eSg 06 58.90
 S.D. = 0.7 on 5 of 5 obs.

AUG 06, 1990 10h 47m 24.56± 2.09s
 34.126 S ± 17.2km 70.702 W ± 7.5km
 DEPTH = 20.1 ± 6.3 km
 4.1mb (2 obs.)

CHILE-ARGENTINA BORDER REGION (127)

CHCH 0.20 12 iPc 47 29.60 -0.2
 i 47 40.20

TACH 0.51 337 iPc 47 35.70 0.9
 PCH 0.53 17 iPc 47 34.20 -0.9
 LNV 0.61 286 iPc 47 35.50 -0.9
 SAN 0.67 3 iPc 47 37.50 0.0
 i 47 57.90

FCH 0.87 23 iPc 47 39.70 -1.3
 LCCH 0.97 312 iPc 47 43.00 0.4
 iS 48 05.00

PEL 0.98 1 iPc 47 43.20 0.4
 ROCH 1.18 347 iPc 47 46.50 0.4
 i 48 12.90

JACH 1.44 4 iPc 47 50.30 0.6
 i 48 19.50

RTBS 2.67 23 eP 48 10.50 3.2X
 RTCV 2.90 39 e(P) 48 13.20 2.6X
 RTCB 3.08 32 iPd 48 14.80 1.6
 ZON 3.09 34 eP 48 16.00 2.8X
 CFA 3.26 40 ePc 48 16.00 0.3
 e 48 18.50
 e 48 20.00

RTLL 3.36 35 ePd 48 15.80 -1.4
 e 48 18.00
 e 48 20.00

CNCB 17.42 9 P 51 28.00 -0.6
 LPB 17.67 8 P 51 31.00 -0.7
 ZOBO 17.93 8 P 51 34.70 -0.3
 1.1s 23.20nm 4.2mb

Z 20s 0.44um

LR 57 52.00

SIV 20.03 28 (P) 52 01.00 1.8
 NNA 22.74 344 iP 52 26.50 -0.1
 0.8s 4.48nm 4.0mb

S.D. = 1.0 on 18 of 21 obs.

AUG 06, 1990 11h 11m 25.97± 1.04s
 42.924 N ± 10.0km 18.300 E ± 6.8km
 DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)

ML 2.5 (TTG).

BRY 0.18 97 iPg 11 29.70 -0.4
 iSg 11 33.50

HCY 0.50 163 ePg 11 36.00 -0.1
 eSg 11 45.00

NKY 0.52 102 ePg 11 35.50 -1.1
 eSg 11 44.00

BDV 0.75 148 ePg 11 40.00 -0.6
 eSg 11 53.00

TTG 0.86 125 ePg 11 43.30 0.7
 eSg 11 57.00

ULC 1.19 143 ePg 11 48.40 0.2
 eSg 12 06.50

PVY 1.28 104 ePg 11 51.00 1.3
 eSg 12 08.70

HVAR 1.38 281 iPn 11 51.20 -0.1
 iSg 12 10.90

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

AUG 06, 1990 11h 22m 58.26± 2.43s
 34.310 S ± 17.7km 70.581 W ± 8.6km
 DEPTH = 10.0km (geophysicist)

CHILE-ARGENTINA BORDER REGION (127)

CHCH 0.38 351 iPc 23 06.80 0.7
 i 23 18.00

PCH 0.69 5 iPc 23 11.30 -0.7
 iS 23 26.90

TACH 0.72 336 iPc 23 12.50 0.1
 iS 23 28.20

LNV 0.77 297 iPc 23 12.10 -1.2
 i 23 27.50

SAN 0.86 356 iP 23 14.40 -0.4

[illegible]

TWF1 0.63 228 iPc 44 49.70 -0.1
 TWC 0.83 3 iPc 44 52.60 0.1
 TWO 1.02 299 iPc 44 55.10 -0.2
 TWK 1.32 247 ePc 44 59.70 0.2
 TWZ 1.33 351 ePc 44 58.70 -1.0
 ANP 1.43 349 eP 45 02.00 0.8
 eS 45 17.10

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

& AUG 07, 1990 05h 05m 56.40s
 36.850 N 89.240 W
 DEPTH = 6.8km
 NEW MADRID, MISSOURI REGION (486)
 <SLM>. mbLg 3.0 (SLM). Felt (IV)
 at Wyott, Missouri and (III) at
 Wolf Island, Missouri.

DWM 0.21 257 eP 06 00.49 -0.2
 ELC 0.43 1 ePc 06 04.39 -0.8
 S 06 10.63
 LST 0.51 231 eP 06 06.14 -0.6
 UTMA 0.60 159 ePd 06 07.92 -0.4
 S 06 16.18
 CBD 0.63 212 ePc 06 08.25 -0.7
 DON 0.64 301 ePd 06 08.39 -0.9
 GOIL 0.69 50 eP 06 08.88 -1.3
 MFTN 0.70 190 eP 06 09.51 -0.9
 S 06 18.70

OHTN 0.73 198 ePc 06 10.17 -0.9
 MILT 1.08 158 ePd 06 16.80 -0.2
 CIRL 1.12 53 eP 06 17.06 -0.6
 S 06 31.80

NHIL 1.37 38 ePd 06 21.33 -0.6
 S 06 40.40

LRDO 1.47 234 eP 06 22.90 -0.4
 S 06 43.14

FVM 1.47 321 eP 06 22.87 -0.5
 SFTN 1.62 203 eP 06 25.18 -0.2
 S 06 46.40

EBZ 1.71 183 iPd 06 26.24 -0.5
 S 06 49.12

POW 1.72 247 ePd 06 27.28 -0.4
 S 06 49.73

WDIN 1.73 44 ePd 06 27.31 0.2
 AFAR 1.98 250 eP 06 31.38 0.7
 WLA 2.05 216 eP 06 31.82 0.2
 OLY 2.25 234 eP 06 34.20 -0.4

RSCP 3.22 112 eP 06 47.50 -0.9
 GBTN 4.23 105 eP 07 02.70 -0.1
 TKL 4.57 103 eP 07 07.30 -0.3

UYO 5.03 239 Pn 07 13.00 -1.1
 eSn 08 14.30
 eLg 08 32.30

BLA 7.06 84 eP 07 58.50 15.7
 MEO 7.87 258 eP 07 53.00 -1.0

27 obs. associated

AUG 07, 1990 05h 14m 33.45 ± 0.54s
 36.342 N ± 6.4km 27.050 E ± 5.1km
 DEPTH = 10.0km (geophysicist)

DODECANESE ISLANDS (369)
 MD 3.8 (ATH).

KAP 0.80 173 ePb 14 49.00 0.1
 eSg 14 58.00

YER 1.27 51 iPn 14 57.70 0.7
 SMG 1.37 353 ePb 14 57.60 -1.0

APE 1.42 301 ePn 15 03.80 4.5X
 NPS 1.59 228 ePb 15 01.00 -0.7
 IZM 2.06 5 ePn 15 15.00 6.5X

KSL 2.06 95 ePb 15 08.40 -0.1
 ELL 2.34 79 ePn 15 12.60 0.0
 VAM 2.50 249 ePg 15 21.00 6.3X

KHL 2.79 44 ePn 15 22.00 2.9X
 BCK 3.05 67 ePn 15 29.40 6.8X
 VLI 3.33 278 ePn 15 27.10 0.4

DST 3.49 20 ePn 15 41.00 12.1X
 ITM 4.20 283 ePn 15 40.00 1.1

EVR 4.89 303 ePn 15 48.50 -0.4
 S.D. = 0.8 on 9 of 15 obs.

% AUG 07, 1990 05h 56m 11.29 ± 1.01s
 17.712 N ± 14.5km 94.970 W ± 10.3km
 DEPTH = 112.1 ± 23.7 km

CHIAPAS, MEXICO (61)

EVV 0.82 334 eP 56 31.91 0.8
 iS 56 51.19

OXX 1.79 250 eP 56 41.73 -0.6
 iS 57 06.56

SCX 2.43 113 eP 56 50.76 0.3
 eS 57 18.43

LVVM 2.45 325 iP 56 48.50 -2.3
 (S) 57 20.00

IIT 3.43 293 iP 57 04.84 0.7
 PPM 3.72 292 iP 57 08.86 0.5

TPX 3.82 137 (P) 57 09.00 -0.1
 UNM 4.31 293 (P) 57 17.00 0.9

III 4.33 279 eP 57 15.14 -1.2
 IIC 4.55 297 iP 57 19.90 0.4

ACX 4.74 261 (P) 57 27.50 5.7X
 CRX 4.77 291 (P) 57 34.00 11.5X

IIJ 4.94 295 iP 57 26.34 1.3
 MRX 6.22 290 eP 57 41.50 -0.6

S.D. = 1.2 on 12 of 14 obs.

% AUG 07, 1990 06h 30m 49.74 ± 0.82s
 37.009 N ± 6.9km 29.419 E ± 7.7km

DEPTH = 10.0km (geophysicist)
 TURKEY (366)

ELL 0.47 123 iPg 30 58.60 -0.7
 iSg 31 06.60

KSL 0.90 171 ePb 31 07.50 0.6
 eSb 31 26.00

YER 0.92 278 ePn 31 07.00 -0.3
 BCK 1.04 64 iPn 31 09.40 0.0

KHL 1.31 4 iPn 31 13.10 -1.0
 ALT 2.11 15 ePn 31 27.00 1.3

SMG 2.17 290 ePn 31 31.50 5.1X
 S.D. = 1.1 on 6 of 7 obs.

* AUG 07, 1990 07h 14m 01.20 ± 0.64s
 19.080 S ± 9.9km 65.595 E ± 14.3km

DEPTH = 10.0km (geophysicist)
 5.1mb (6 obs.) 4.7Msz (3 obs.)

MASCARENE ISLANDS REGION (427)

CHTO 49.90 43 eP 22 58.60 1.5
 1.5s 11.26nm 4.6mb

GKN 50.30 22 P 23 00.40 0.1
 KKN 50.34 23 P 23 00.40 -0.3

GUN 50.67 23 P 23 03.50 0.2
 CD2 61.77 37 eP 24 18.80 -3.7X

ASPA 63.24 107 iPc 24 32.20 -0.3
 1.4s 17.00nm 5.0mb

Z 20s 0.80um 4.9Msz
 LR 47 52.70

WRA 64.36 103 Pd 24 39.80 -0.1
 1.5s 22.40nm 5.1mb

WB5 64.40 103 iPd 24 39.90 -0.3
 65.73 33 eP 24 48.00 -0.5

LZH 2.0s 21.00nm 5.0mb
 PP 24 57.50

WMO 65.79 17 P 24 48.60 -0.1
 GTA 66.40 28 Pd 24 52.00 -0.7

0.8s 10.00nm 5.1mb
 XAN 67.03 38 P 24 56.00 -0.8

SPA 71.04 180 eP 25 21.70 0.5
 1.1s 22.62nm 5.2mb

TIY 71.63 38 eP 25 25.80 0.7
 Z 22s 0.50um 4.7Msz

BTO 72.32 34 eP 25 29.50 0.4
 VRI 73.62 333 ePd 25 36.50 0.0

SPC 79.00 332 e(P) 26 06.80 -0.2
 ZOBO 122.50 235 ePd diff 29 41.00 11.5X

Z 20s 0.15um 4.6Msz
 LR 12 44.00

SES 148.64 356 ePKP 33 50.00 3.8X
 PNT 149.54 7 ePKPd 33 53.00 5.4X

ALQ 162.70 338 ePKP 34 07.00 2.1X
 S.D. = 0.6 on 16 of 21 obs.

& AUG 07, 1990 08h 26m 15.02s
 64.231 N 149.206 W

DEPTH = 0.0km
 CENTRAL ALASKA (1)

<AGS-P>. ML 2.9 (PMR).

MCK 0.51 166 iP 26 24.90 -0.4
 eS 26 32.09

WRH 0.54 63 iP 26 25.40 -0.4
 CCB 0.74 55 eP 26 28.97 -0.8

FBA 0.91 42 iPc 26 38.80 0.0
 iS 26 32.20 -0.9

HDA 1.00 79 iP 26 33.50 -1.3
 eS 26 44.20

GLM 1.09 45 eP 26 35.74 -0.7
 eS 26 43.89 0.0

HUR 1.27 189 eP 26 40.30 0.7
 eS 26 57.13

DMW 1.53 95 eP 26 43.69 0.0
 DDM 1.54 105 eP 26 43.89 0.0

CUT 1.90 195 eP 26 50.44 1.5
 eS 27 15.02

DOT 2.35 102 eP 26 57.72 2.2
 eS 27 27.82

SML 2.46 170 eP 26 56.62 -0.6
 GHO 2.47 177 eP 26 57.03 -0.3

SKT 2.49 206 eP 26 56.48 -1.1
 TOA 2.54 146 eP 27 01.00 2.7

SCM 2.55 160 eP 27 00.10 1.6
 PWA 2.61 187 eP 26 59.11 0.0

IMA 2.64 316 eP 26 59.27 -0.5
 PLRM 2.65 179 eP 26 59.60 -0.1

PMR 2.65 179 eP 27 03.60 3.9
 SUA 2.87 195 eP 27 03.65 0.7

PMS 3.00 183 eP 27 06.44 1.6
 KLU 3.13 150 eP 27 06.19 -0.5

NCG 3.14 207 eP 27 05.59 -1.3
 TTA 3.31 250 eP 27 16.40 7.2

SVW 4.31 226 eP 27 34.10 10.8
 26 obs. associated

% AUG 07, 1990 08h 53m 53.62 ± 0.94s
 39.292 N ± 7.9km 27.687 E ± 12.6km

DEPTH = 10.0km (geophysicist)
 TURKEY (366)

DST 0.79 66 ePg 54 09.00 -0.1
 eSg 54 20.00

IZM 0.95 200 iPg 54 11.80 0.0
 EDC 1.06 7 ePn 54 13.00 -0.6

BNT 1.08 10 ePn 54 14.50 0.6
 IZI 1.73 52 ePn 54 24.00 0.1

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

? AUG 07, 1990 09h 15m 16.59 ± 7.46s
 44.762 N ± 13.2km 6.658 E ± 73.1km

DEPTH = 10.0km (geophysicist)
 FRANCE (538)

ML 1.9 (GEN).

RRL 0.18 30 P 15 20.80 0.0
 S 15 23.37

PZZ 0.41 129 P 15 24.90 -0.1
 S 15 29.83

STV 0.70 137 P 15 30.24 -0.3
 ENR 0.76 134 P 15 31.98 0.4

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

& AUG 07, 1990 10h 35m 04.60s
 36.863 N 121.637 W

DEPTH = 3.0km
 CENTRAL CALIFORNIA (39)

<BRK>. ML 2.5 (BRK).

SAO 0.18 122 iP 35 08.30 0.0
 iS 35 11.30

GCC 0.33 300 eP 35 11.00 -0.3
 MHC 0.48 360 iPd 35 14.30 0.1

iS 35 21.35
 ARN 0.49 10 iPc 35 14.40 0.0

PRS 0.57 158 eP 35 15.70 -0.3
 LLA 0.61 114 eP 35 16.40 -0.4

PCC 0.87 317 eP 35 20.90 -1.0
 PRI 1.06 132 eP 35 24.70 -0.7

eS 35 41.70
 BKS 1.12 335 eP 35 23.50 -2.7

eS 35 41.20
 BRK 1.12 334 eP 35 25.40 -0.9

eS 35 41.40
 ZSP 1.19 336 eP 35 25.50 -1.9

eS 35 44.30
 PHAM 1.43 135 eP 35 29.20 -2.3

CMB 1.54 40 eP 35 32.60 -0.4
 eS 35 52.70

FRI 1.55 85 eP 35 31.50 -1.6
 eS 35 51.80

07d 21h

MHC 85.91 53 eP 56 35 30 0.5
 ARN 85.99 53 P 56 35 10 0.1
 PRS 86.35 54 eP 56 37.30 0.5
 NEW 86.46 41 P 56 36.20 -0.9
 0.8s 14.84nm 4.9mb
 LLA 86.62 53 eP 56 39.30 1.2
 CMB 86.72 52 eP 56 38.00 -0.6
 FRI 87.49 53 eP 56 42.30 0.1
 BCH 87.64 55 P 56 43.30 0.2
 KVN 88.20 50 P 56 45.80 -0.1
 TNP 89.12 51 P 56 50.40 0.1
 0.7s 6.67nm 4.8mb
 PLM 90.69 56 P 56 57.30 -0.3
 MSU 92.79 50 P 57 07.60 0.4
 S.D. = 0.6 on 29 of 32 obs.

% AUG 07, 1990 22h 16m 31.60 ± 0.86s
 39.253 N ± 8.8km 29.297 E ± 10.0km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

DST 0.63 304 ePg 16 43.50 -0.7
 iSg 16 53.50
 ALT 0.66 107 ePg 16 44.00 -0.9
 iSg 16 54.30
 KHL 0.95 169 iPg 16 50.40 0.7
 iSg 17 02.90
 IZI 1.09 7 iPn 16 53.00 0.8
 BNT 1.53 317 ePn 16 59.00 0.0
 S.D. = 1.1 on 5 of 5 obs.

% AUG 07, 1990 22h 34m 21.80 ± 0.68s
 11.005 S ± 10.0km 119.182 E ± 12.7km
 DEPTH = 33.0km (normal)
 4.0mb (2 obs.)
 SOUTH OF SUMBA ISLAND (292)

MBL 10.12 177 eP 36 48.00 0.1
 0.3s 10.00nm 5.6mb X
 eS 38 34.00
 NANU 12.01 196 eP 37 14.00 0.3
 0.2s 8.00nm 5.5mb X
 eS 39 19.00
 MEKA 15.54 182 eP 37 59.00 -1.2
 eS 40 42.00
 WB5 17.08 123 eP 38 18.00 -1.8
 eS 41 17.50
 WRA 17.09 123 Pd 38 20.30 0.4
 0.7s 2.20nm 3.4mb X
 MRWA 18.36 189 eP 38 39.00 3.3X
 eS 41 45.00
 ASPA 18.84 134 eP 38 43.80 2.1
 0.7s 6.00nm 3.9mb
 eS 42 03.20
 GBA 48.09 300 P 43 02.00 1.4
 0.4s 0.90nm 4.2mb
 PKI 50.42 320 P 43 17.70 -1.1
 DMN 50.63 320 P 43 20.50 0.2
 KKN 50.65 320 P 43 21.00 0.6
 GKN 51.21 320 P 43 23.60 -0.9
 S.D. = 1.3 on 11 of 12 obs.

AUG 07, 1990 23h 04m 39.67 ± 0.56s
 40.085 N ± 4.3km 19.889 E ± 5.7km
 DEPTH = 10.0km (geophysicist)
 ALBANIA (391)
 MD 3.5 (ATH). ML 3.0 (TTG). Felt
 at Vlora.

SRN 0.22 157 iPg 04 44.50 0.1
 TPE 0.23 24 iPg 04 44.50 -0.1
 KEK 0.38 191 ePg 04 52.00 4.6X
 eSg 05 06.00
 VLO 0.49 322 iPg 04 45.30 -4.2X
 LSK 0.55 83 ePg 04 57.10 6.3X
 OHR 1.24 34 iPn 05 06.00 3.3X
 iSn 05 27.80
 TIR 1.26 359 ePn 05 02.50 -0.6
 LCI 1.50 280 Pc 05 01.00 -5.6X
 eSn 05 18.70
 EVR 1.89 128 ePn 05 20.60 8.2X
 ULC 1.94 346 ePn 05 12.50 -0.5
 eSn 05 37.00
 SDA 1.95 351 ePn 05 13.00 -0.1
 PUK 1.96 0 ePn 05 13.20 0.0
 BRT 2.20 292 P 05 17.20 0.5
 eSn 05 41.00

BDV 2.34 340 ePn 05 18.00 -0.7
 eSn 05 47.00
 TTG 2.39 349 ePn 05 20.00 0.6
 eSn 05 50.00
 PVY 2.51 1 ePn 05 21.50 0.3
 eSn 05 53.00
 BAI 2.52 295 P 05 22.00 0.7
 TDS 2.77 262 P 05 26.00 1.1
 IVA 2.78 0 ePn 05 26.00 0.8
 eSn 06 03.50
 ITM 3.31 151 ePg 05 51.00 18.4X
 MGR 3.32 272 P 05 32.50 -0.3
 SGO 3.53 279 P 05 34.50 -1.2
 SOI 3.60 237 P 05 36.00 -0.6

S.D. = 0.7 on 16 of 23 obs.

& AUG 08, 1990 00h 21m 07.46s
 61.536 N 150.112 W
 DEPTH = 40.2km
 SOUTHERN ALASKA (2)
 <AGS-P>. ML 3.7 (PMR). Felt
 (111) at Palmer.

PWA 0.16 44 iP 21 14.47 0.0
 PMS 0.39 138 iP 21 16.71 -0.2
 PLRM 0.47 83 iP 21 17.15 -0.7
 iS 21 25.41
 PMR 0.47 83 iPc 21 17.10 -0.7
 GH0 0.61 67 iP 21 19.16 -0.7
 CUT 0.88 355 iP 21 22.47 -0.9
 eS 21 33.73
 SML 0.89 71 iP 21 22.74 -1.0
 CGLM 0.94 257 iP 21 23.78 -0.6
 NKA 0.97 215 iP 21 25.75 1.1
 NCG 0.99 263 iP 21 24.48 -0.7
 eS 21 38.79
 SPU 1.00 250 iP 21 24.57 -0.7
 eS 21 37.99
 SLKM 1.03 183 iP 21 24.52 -1.2
 iS 21 39.50
 SCM 1.36 76 eP 21 29.69 -0.7
 eS 21 47.81
 HUR 1.46 9 eP 21 31.38 -0.4
 eS 21 50.06
 SEW 1.47 167 eP 21 30.40 -1.5
 RDT 1.48 230 iP 21 31.11 -0.9
 eS 21 50.55
 NNL 1.61 202 iP 21 33.64 -0.2
 RED 1.71 230 iP 21 34.50 -0.9
 VZW 1.78 104 iP 21 35.06 -1.3
 eS 21 57.59
 VLZ 1.87 101 iP 21 35.93 -1.6
 TOA 1.96 71 ePd 21 38.60 -0.3
 KLU 2.01 89 iP 21 38.12 -1.6
 eS 22 02.46
 HOM 2.03 203 eP 21 37.74 -2.2
 CNPM 2.09 196 iP 21 39.08 -1.8
 XLV 2.24 202 eP 21 41.37 -1.5
 eS 22 10.40
 MCK 2.27 13 eP 21 42.65 -0.7
 SDG 2.37 63 eP 21 48.91 4.1
 PDB 2.67 231 iP 21 47.11 -1.8
 SVW 2.69 263 iPc 21 47.40 -1.9
 AUE 2.72 218 eP 21 48.55 -1.1
 AUI 2.75 218 eP 21 49.39 -0.8
 MID 2.82 137 eP 21 50.32 -0.8
 DDM 2.99 39 eP 21 54.26 0.7
 GLB 3.02 89 eP 21 51.47 -2.6
 WRH 3.09 16 eP 21 52.92 -2.0
 TTA 3.10 299 iPc 21 53.00 -2.1
 SHU 3.13 202 eP 21 54.00 -1.4
 CDD 3.15 216 eP 21 53.89 -2.0
 HDA 3.22 25 eP 21 55.69 -1.1
 CCB 3.29 18 eP 21 55.41 -2.4
 DOT 3.51 50 eP 21 59.63 -1.3
 FBA 3.54 16 eP 21 59.16 -2.1
 TGL 3.62 99 eP 21 59.96 -2.6
 GLM 3.68 18 eP 22 01.04 -2.3
 BALM 3.78 94 eP 22 01.70 -3.2
 IMA 4.82 342 eP 22 16.80 -2.7
 FYU 5.48 21 eP 22 27.16 -1.6
 ANM 7.56 300 e(P) 22 54.70 -3.3

48 obs. associated

& AUG 08, 1990 00h 30m 27.66s
 59.830 N 151.783 W
 DEPTH = 62.6km

KENAI PENINSULA, ALASKA (14)
 <AGS-P>.

HOM 0.19 158 eP 30 36.96 -0.5
 eS 30 44.44
 NNL 0.32 49 eP 30 38.77 0.4
 XLV 0.38 175 eP 30 37.48 -1.4
 eS 30 45.33
 CNPM 0.41 137 iP 30 38.45 -0.7
 eS 30 46.87
 RED 0.77 320 iP 30 42.50 -0.7
 iS 30 54.36
 RDT 0.81 338 iP 30 42.92 -0.8
 iS 30 54.88
 AUE 0.94 240 eP 30 44.15 -1.1
 NKA 0.96 16 eP 30 47.08 1.6
 AUI 0.97 240 eP 30 44.87 -0.8
 eS 30 58.59
 SLKM 1.04 48 eP 30 46.14 -0.4
 SEW 1.21 76 eP 30 49.03 0.3
 PDB 1.22 269 iP 30 47.81 -1.2
 iS 31 03.73
 SHU 1.24 194 eP 30 48.33 -0.9
 CDD 1.31 227 eP 30 49.15 -1.1
 SPU 1.36 354 eP 30 50.73 -0.3
 CKL 1.40 349 iP 30 51.34 -0.2
 CRP 1.45 353 eP 30 52.72 0.4
 MCNL 1.45 245 eP 30 49.91 -2.3
 BGL 1.47 348 eP 30 52.90 0.4
 CGLM 1.49 356 eP 30 52.74 0.0
 NCG 1.59 354 eP 30 54.31 0.1
 SUA 1.72 17 eP 30 56.28 0.3
 PMS 1.79 37 eP 30 57.48 0.5
 SKT 2.16 3 eP 30 58.11 -3.9
 PLRM 2.20 35 eP 31 02.48 0.0
 GH0 2.40 34 eP 31 05.89 0.5
 SML 2.61 39 eP 31 08.04 -0.3
 VZW 2.87 62 eP 31 10.26 -1.8
 VLZ 3.00 62 eP 31 12.06 -1.7
 KLU 3.33 57 iP 31 17.21 -1.4

30 obs. associated

AUG 08, 1990 00h 35m 06.83 ± 0.26s
 37.171 N ± 3.2km 22.039 E ± 2.4km
 DEPTH = 10.0km (geophysicist)
 4.8mb (38 obs.) 3.9Msz (2 obs.)
 SOUTHERN GREECE (368)
 ML 4.9 (SKO), 4.6 (ATH). MD 4.8
 (HLW), 4.4 (THE).

ITM 0.09 276 iPg 35 09.40 0.0
 VLI 0.85 122 iPg 35 22.00 -1.2
 ATH 1.55 59 iPbc 35 26.10 1.6
 eSb 36 00.00
 EVR 1.75 354 iPbc 35 39.10 1.6
 NEO 2.33 23 ePn 35 46.30 0.5
 VAM 2.48 135 ePb 35 50.00 2.1
 IGT 2.71 331 ePn 35 54.20 2.9X
 eSn 36 26.70
 APE 2.79 91 ePn 35 51.60 -0.8
 LIT 2.95 7 ePn 35 56.20 1.7
 eSn 36 30.30
 PAIG 3.04 25 ePn 35 56.00 0.2
 eSn 36 31.20
 KEK 3.09 326 ePn 35 58.50 2.0
 KZN 3.14 356 ePn 36 00.00 2.7X
 SRN 3.14 330 iPn 36 00.10 2.9X
 LSK 3.18 340 iPnc 36 01.00 3.1X
 PLG 3.38 19 ePn 36 02.20 1.5
 NPS 3.46 122 ePn 36 03.50 1.7
 TPE 3.50 334 ePn 36 01.00 -1.4
 THE 3.53 12 ePn 36 03.40 0.6
 eSn 36 44.50
 SMG 3.86 81 ePn 36 07.20 -0.2
 PRK 3.93 57 ePn 36 08.40 0.0
 KNT 4.04 9 ePn 36 11.70 1.7
 eSn 36 56.50
 OHR 4.05 347 iPn 36 12.50 2.3X
 SRS 4.12 17 ePn 36 12.00 0.8
 eSn 36 59.30
 VAY 4.17 6 iPn 36 14.30 2.5X
 iSn 37 07.60
 EZN 4.28 50 iP 36 12.50 -1.0
 IZM 4.32 72 iP 35 55.90 -18.1X
 KAP 4.45 110 ePn 36 17.00 1.1
 LCI 4.49 316 Pc 36 17.50 1.1
 TIR 4.50 339 ePn 36 18.70 2.2X

PHP	4.68	345	iPnc	36	21.20	2.1X				eS	39	38.00		EPF	17.58	296	eP	39	09.10	-4.4X
RDO	4.81	33	ePn	36	20.00	-1.0	BUD	10.54	349	e(P)	37	39.00	-1.9	LSF	17.76	307	eP	39	09.50	-6.1X
SKO	4.82	355	iPnc	36	23.00	1.9	TRI	10.55	327	eP	37	39.90	-1.1	LFF	17.81	302	eP	39	11.70	-4.5X
			iPb	36	34.00					e	39	40.30		MFF	18.96	307	eP	39	24.70	-5.7X
			iPg	36	45.50					e	42	02.00			1.2s	53.55nm				4.6mb
			i	37	01.00		BMR	10.55	5	ePc	37	46.00	5.0X	ETOR	19.06	288	eP	39	32.00	0.2
			iSn	37	23.00		HLW	10.65	131	eP	37	39.00	-3.4X	ECRI	19.58	294	eP	39	37.80	-0.1
			i	37	24.50					e	39	36.00		LDF	19.77	312	eP	39	32.70	-7.1X
			i	37	29.00		VOY	10.74	328	eP	37	43.20	-0.6		0.9s	39.30nm				4.7mb
			i	37	36.50					eS	39	39.00		FLN	20.06	312	eP	39	35.50	-7.4X
			iSb	37	43.50		PSZ	10.86	352	e(P)	37	45.00	-0.3		1.1s	87.90nm				5.0mb
			i	37	45.00		SRO	10.98	347	iP	37	46.00	-0.9	Z	22s	0.75um				4.0Msz
SOI	4.84	283	P	36	22.10	0.7	SOP	11.26	341	eP	37	48.80	-1.9	LPF	20.08	310	eP	39	36.00	-7.1X
			eSn	37	19.00		ADI	11.54	107	eP	37	50.00	-4.7X		1.1s	43.95nm				4.7mb
ALN	4.86	39	ePn	36	21.20	-0.4	ZST	11.60	343	iP	37	53.70	-1.6	GRR	20.12	311	eP	39	35.70	-7.8
YER	4.99	89	eP	36	27.00	3.4X	FVI	11.66	327	P	37	54.50	-1.7	EBAN	20.45	281	eP	39	46.00	-1.1
TDS	5.12	301	P	36	27.20	1.8	SAL	12.06	318	P	38	01.50	-0.1	ASMO	20.51	278	eP	39	49.00	1.2
PUK	5.14	342	iPnd	36	27.30	1.7	SPC	12.08	354	eP	38	01.50	-0.6	APHE	20.52	277	eP	39	47.70	-0.2
SDA	5.22	339	ePn	36	27.50	0.7	DSI	12.35	113	eP	38	01.00	-4.6X	KER	20.52	90	eP	39	46.00	-2.0
ORI	5.24	305	P	36	28.40	1.2	MDI	12.61	317	P	38	09.50	0.5	TOL	20.57	286	eP	39	47.00	-1.3
ULC	5.25	337	ePn	36	28.00	0.8	SOTA	12.84	325	iPc	38	11.80	-0.4	ACHM	20.61	278	eP	39	51.00	2.2
			eSn	37	28.50			0.8s	15.40nm			5.3mb		GUD	20.65	288	eP	39	49.00	-0.3
BRT	5.28	316	P	36	28.50	0.8				i	38	21.60		ATEJ	20.78	277	eP	39	51.00	0.3
ATN	5.31	283	P	36	28.00	-0.1				i	38	37.20		AAPN	20.81	278	eP	39	50.00	-0.9
EDC	5.55	53	eP	36	32.50	1.1				e	40	16.00		ALOJ	20.83	278	eP	39	53.70	2.6
BNT	5.59	54	eP	36	28.00	-4.0X				i	40	20.40		IFR	22.43	269	e(P)	39	58.00	-9.3X
BAI	5.63	316	P	36	32.00	-0.6														

08d 00h

GLD 89.41 322 P 48 06 50 1.2
1.1s 19.29nm 5.3mb
GOL 89.52 322 P 48 06 30 0.3
1.1s 5.61nm 4.7mb
LON 90.39 336 P 48 15 20 5.6X
DAU 91.71 326 P 48 16 80 0.7
MSU 93.66 326 P 48 26 30 1.2
KVN 95.74 330 P 48 34 10 -0.4
WB5 119.27 94 e(PKP) 54 04 20 6.0X
WRA 119.29 94 PKP 53 59 00 0.8
0.6s 0.70nm
S.D. = 1.2 on 154 of 208 obs.

& AUG 08, 1990 00h 53m 54.28s
61.380 N 151.007 W
DEPTH = 61.4km
SOUTHERN ALASKA (2)
<AGS-P>.

SUA 0.15 56 iP 54 03.95 0.0
eS 54 12.36
CGLM 0.49 262 iP 54 06.02 -0.4
eS 54 15.58
SPU 0.54 249 iP 54 06.44 -0.5
eS 54 16.08
NCG 0.55 273 iP 54 06.73 -0.4
eS 54 16.40
CRP 0.57 259 iP 54 06.94 -0.4
PWA 0.61 63 iP 54 07.38 -0.2
NKA 0.65 190 iP 54 09.53 1.5
SKT 0.65 338 iP 54 07.36 -0.8
CKL 0.67 255 iP 54 07.85 -0.6
BGL 0.68 261 iP 54 07.97 -0.6
PMS 0.71 100 iP 54 08.68 -0.2
PLRM 0.93 76 iP 54 10.70 -0.8
PMR 0.93 76 iPc 54 10.80 -0.7
IS 54 24.50
SLKM 0.96 156 iP 54 11.20 -0.8
eS 54 25.62
RDT 1.06 221 iP 54 12.65 -0.7
eS 54 27.31
GHO 1.07 68 eP 54 12.72 -0.8
CUT 1.09 18 iP 54 12.94 -0.7
eS 54 27.69
RED 1.29 223 iP 54 15.89 -0.7
IS 54 33.55
SML 1.35 70 iP 54 16.11 -1.2
NNL 1.35 186 eP 54 17.62 0.4
SEW 1.49 148 eP 54 18.88 -0.3
HUR 1.73 21 eP 54 22.45 0.0
eS 54 44.17
HOM 1.76 191 eP 54 22.68 -0.2
SCM 1.82 74 eP 54 22.26 -1.5
CNPM 1.86 184 iP 54 23.17 -1.2
VZW 2.18 97 eP 54 26.50 -2.3
eS 54 53.38
PDB 2.24 226 iP 54 28.02 -1.6
SVW 2.25 265 iPc 54 28.10 -1.7
VLZ 2.27 94 iP 54 27.72 -2.3
TOA 2.41 70 iPc 54 31.30 -0.8
KLU 2.45 85 iP 54 30.19 -2.4
MCK 2.55 21 eP 54 34.32 0.3
MCNL 2.76 218 eP 54 36.10 -0.8
CDD 2.79 209 iP 54 36.35 -1.1
TTA 2.82 306 iPd 54 35.80 -2.1
GLB 3.46 86 eP 54 43.61 -3.3
FBA 3.82 21 eP 54 49.30 -2.6
IMA 4.85 347 e(P) 55 03.90 -2.7
38 obs. associated

% AUG 08, 1990 01h 49m 08.27±2.18s
39.467 N ±16.6km 28.290 E ±12.5km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
DST 0.30 62 iPg 49 13.70 -0.8
iSg 49 18.20
BNT 0.93 342 ePg 49 25.50 -0.6
eSg 49 39.00
EDC 0.94 340 ePg 49 26.50 0.4
eSg 49 38.50
IZI 1.26 46 ePn 49 32.60 0.9
ALT 1.47 106 ePn 49 35.00 0.1
S.D. = 1.0 on 5 of 5 obs.

AUG 08, 1990 04h 40m 58.81±0.78s
37.082 N ±7.5km 22.016 E ±6.9km

DEPTH = 10.0km (geophysicist)
SOUTHERN GREECE (368)
ML 3.4 (ATH).

ITM 0.12 324 ePg 41 01.00 -0.8
VLI 0.82 116 iPg 41 13.60 -1.1
ATH 1.62 56 ePb 41 27.20 -0.2
eSb 41 49.00
EVR 1.84 355 ePb 41 30.90 0.1
NEO 2.42 23 ePn 41 38.20 -0.8
VAM 2.43 133 ePn 41 41.00 1.8
APE 2.81 89 ePn 41 43.30 -1.4
LIT 3.04 7 ePn 41 50.00 2.2
eSn 42 24.40
PAIG 3.13 24 ePn 41 48.20 -0.8
eSn 42 26.70
KEK 3.15 327 ePn 41 50.00 0.6
KZN 3.23 357 ePn 41 52.00 1.5
NPS 3.43 121 ePn 41 55.00 1.6
PLG 3.47 18 ePn 41 53.00 -1.0
GRG 3.88 4 ePn 41 59.70 -0.1
SMG 3.89 79 ePn 41 59.00 -0.9
KNT 4.13 9 ePn 42 03.10 -0.2
OHR 4.13 347 ePn 42 05.00 1.6
SOI 4.84 284 P 42 12.00 -1.4
eSn 43 10.00
SKO 4.90 355 ePn 42 01.50 -12.8X
SGO 6.28 306 P 42 33.00 -0.7
eSn 43 49.00
CLL 15.60 339 e(P) 44 44.00 3.8X
S.D. = 1.3 on 19 of 21 obs.

AUG 08, 1990 06h 17m 03.43±0.83s
10.922 N ±8.9km 61.157 W ±8.2km
DEPTH = 10.0km (geophysicist)

TRINIDAD (98)
MD 3.2 (TRN).
TRN 0.36 222 iP 17 10.80 -0.1
eS 17 21.14
TBH 0.44 168 iP 17 11.93 -0.6
eS 17 21.42
TPR 0.46 55 iP 17 12.84 0.1
BOT 0.49 61 eP 17 13.41 -0.1
eS 17 22.22
TCE 0.63 249 eP 17 15.59 -0.4
eS 17 24.26
TPP 0.67 206 eP 17 17.72 1.0
eS 17 26.26
S.D. = 0.7 on 6 of 6 obs.

% AUG 08, 1990 06h 52m 10.95±1.00s
40.836 N ±8.9km 15.286 E ±6.4km
DEPTH = 10.0km (geophysicist)

SOUTHERN ITALY (390)
SGO 0.28 177 P 52 15.80 -1.0
eSg 52 19.80
BSS 0.37 263 P 52 18.70 0.2
eSg 52 25.30
MGR 0.73 164 P 52 25.00 -0.2
ORI 1.18 131 P 52 33.60 0.7
eSn 52 49.70
BAI 1.23 76 P 52 33.50 -0.3
TDS 1.43 145 P 52 38.00 1.1
BRT 1.45 88 P 52 36.80 -0.5
eSg 52 55.60
S.D. = 0.9 on 7 of 7 obs.

? AUG 08, 1990 07h 49m 22.40±3.92s
31.728 S ±14.7km 72.551 W ±32.5km
DEPTH = 10.0km (geophysicist)

OFF COAST OF CENTRAL CHILE (134)
ROCH 1.80 134 iP 49 53.00 -0.9
iS 50 18.50
JACH 1.91 120 iPc 49 54.10 -1.3
i 50 15.10
LCCH 1.93 155 iPd 49 56.00 0.4
iS 50 24.50
PEL 2.12 132 iPc 49 57.50 -0.8
iS 50 27.50
SAN 2.35 138 eP 50 03.00 1.4
iS 50 34.20
LNV 2.42 157 iP 50 02.50 -0.1
i 50 42.00
FCH 2.49 130 eP 50 03.20 -0.7

iS 50 35.20
PCH 2.55 138 eP 50 04.70 0.1
i 50 07.70
i 50 43.20
CHCH 2.72 144 eP 50 07.00 0.0
i 50 46.30
RTRS 3.08 60 ePc 50 11.00 -0.9
RTCB 3.21 87 eP 50 13.50 -0.4
ZON 3.31 88 eP 50 16.00 0.7
MDZ 3.34 111 eP 50 22.40 6.6X
iS 51 01.50
RTCV 3.42 93 e(P) 50 18.00 1.1
RTLL 3.51 85 ePd 50 17.20 -0.9
CFA 3.68 89 e(P) 50 22.20 1.6
S.D. = 1.0 on 15 of 16 obs.

? AUG 08, 1990 07h 56m 18.21±2.73s
35.596 N ±18.2km 74.686 E ±15.5km
DEPTH = 201.2 ±38.0 km
4.0mb (3 obs.)

NORTHWESTERN KASHMIR (720)
NDI 7.22 162 eP 58 02.00 -0.1
eS 59 22.00
GKN 11.35 129 P 58 56.30 0.4
0.4s 16.00nm 4.8mb X
KKN 11.91 128 P 59 03.00 -0.1
0.4s 17.00nm 4.8mb X
DMN 11.92 129 P 59 03.40 0.1
PKI 12.14 128 P 59 05.80 -0.3
GUN 12.22 126 P 59 07.00 -0.1
SUF 40.28 328 eP 03 37.00 0.4
HFS 45.61 322 eP 04 19.60 0.0
0.4s 2.10nm 3.9mb
NB2 46.89 323 P 04 29.30 -0.5
0.5s 1.30nm 3.6mb
BCAO 60.19 253 iPd 06 07.30 0.1
0.2s 12.00nm 5.3mb X
MBC 68.08 4 eP 07 04.50 7.1X
0.5s 6.00nm 4.6mb
WRA 79.00 124 P 08 15.00 13.8X
0.5s 0.70nm
S.D. = 0.4 on 10 of 12 obs.

? AUG 08, 1990 08h 24m 33.78±2.57s
17.877 S ±33.6km 178.169 W ±42.1km
DEPTH = 540.8 ±8.6 km
4.8mb (3 obs.)

FIJI ISLANDS REGION (181)
TVI 2.02 298 eP 25 43.70 0.3
KRO 2.39 283 iPc 25 44.60 -0.6
UDU 2.44 314 iP 25 45.40 0.0
NDE 2.72 298 iPc 25 47.30 0.2
OVA 2.91 273 eP 25 47.90 -0.2
MBU 3.10 286 iPc 25 49.40 0.0
VUN 3.21 267 ePc 25 49.40 -0.6
SVA 3.22 265 eP 25 49.90 -0.1
SGE 3.74 274 eP 25 54.40 0.6
NDF 4.18 271 eP 26 01.20 4.2X
YSA 4.23 285 ePc 25 57.70 0.3
CTA 33.68 260 iPd 30 31.50 0.1
0.9s 24.37nm 4.8mb
STK 38.85 241 iPd 31 14.60 0.7
WB5 44.84 260 iPd 32 01.00 -0.5
WRA 44.86 259 P 32 01.20 -0.5
0.5s 5.20nm 4.3mb
ASPA 45.02 254 iPd 32 03.00 0.1
0.6s 60.00nm 5.3mb
CLL 145.48 348 iPKPd 43 14.90 3.5X
0.9s 14.00nm
S.D. = 0.5 on 15 of 17 obs.

? AUG 08, 1990 08h 40m 45.85±5.07s
32.164 S ±12.4km 73.271 W ±42.3km
DEPTH = 16.4 ±5.5 km

OFF COAST OF CENTRAL CHILE (134)
IHA 1.62 122 eP 41 14.50 0.7
iS 41 31.30
ROCH 2.07 113 eP 41 19.50 -1.1
i 41 40.00
i 41 42.50
JACH 2.32 104 iPc 41 23.10 -1.0
iS 41 48.00
LNV 2.37 139 iPc 41 24.10 -0.5
iS 41 50.50

PEL 2.39 115 iPc 41 24.40 -0.5
 TACH 2.46 128 iP 41 26.00 0.1
 SAN 2.55 121 eP 41 27.50 0.3
 PCH 2.74 123 iP 41 30.40 0.4
 FCH 2.77 116 eP 41 30.50 -0.1
 CHCH 2.82 129 iPd 41 31.70 0.6
 RTBS 3.29 82 e(P) 41 38.30 0.7
 RTRS 3.82 60 ePc 41 44.90 -0.3
 RTCB 3.87 81 eP 41 46.00 0.1
 RTCV 4.03 87 e(P) 41 49.00 0.8
 RTLL 4.17 80 ePc 41 50.10 -0.2
 S.D. = 0.7 on 15 of 15 obs.

? AUG 08, 1990 08h 40m 54.99±7.03s
 18.096 N ±54.3km 61.725 W ±13.7km
 DEPTH = 10.0km (geophysicist)
 LEEWARD ISLANDS (92)
 ML 3.2 (FDF).

BPA 1.05 187 iP 41 14.82 0.0
 NEV 1.25 220 iPc 41 18.24 0.0
 MGH 1.45 199 iPc 41 21.21 0.0
 SEG 1.70 173 eP 41 24.88 0.1
 SFG 1.90 165 eP 41 27.60 -0.1
 PAG 2.06 179 eP 41 29.90 -0.2
 S 41 55.00
 BBL 2.57 175 eP 41 37.60 0.2
 S.D. = 0.2 on 7 of 7 obs.

% AUG 08, 1990 09h 06m 40.95±1.23s
 44.007 N ±10.2km 7.598 E ±6.3km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 1.9 (GEN).

IMI 0.23 115 P 06 46.00 0.0
 ENR 0.25 330 P 06 46.41 0.0
 STV 0.31 320 P 06 47.43 0.0
 ROB 0.35 34 P 06 48.15 0.0
 FIN 0.48 65 P 06 50.30 -0.5
 PZZ 0.61 325 P 06 53.28 -0.1
 PCP 0.87 51 P 06 58.17 0.5
 S.D. = 0.4 on 7 of 7 obs.

? AUG 08, 1990 09h 24m 57.67±1.22s
 31.304 S ±10.6km 69.337 W ±13.0km
 DEPTH = 33.0km (normal)
 SAN JUAN PROVINCE, ARGENTINA (137)

RTBS 0.37 195 ePd 25 06.80 0.5
 RTCB 0.49 112 iPd 25 09.50 1.2
 S 25 24.00
 RTLL 0.74 92 iPc 25 12.00 0.2
 S 25 28.00
 RTCV 0.88 129 ePd 25 12.00 -1.7
 S 25 28.90
 RTRS 1.14 355 iPd 25 17.10 -0.2
 S.D. = 1.5 on 5 of 5 obs.

AUG 08, 1990 09h 34m 59.89±0.62s
 37.070 N ±6.3km 22.538 E ±6.3km
 DEPTH = 10.0km (geophysicist)
 4.1mb (1 obs.)
 SOUTHERN GREECE (368)
 ML 3.5 (ATH).

VLI 0.48 138 iPg 35 08.00 -1.6
 ITM 0.50 283 iPg 35 09.00 -1.0
 ATH 1.30 46 ePg 35 24.30 0.4
 S 35 42.50
 VLS 1.90 306 ePg 35 35.00 2.3
 EVR 1.93 343 ePn 35 33.80 0.6
 AGG 1.96 355 eP 35 33.00 -0.5
 VAM 2.14 141 ePb 35 37.00 0.9
 NEO 2.30 13 ePn 35 37.70 -0.7
 IGT 3.01 325 eP 35 55.00 6.6X
 LIT 3.03 359 eP 35 49.00 0.3

NPS 3.07 125 ePn 35 50.00 0.6
 KZN 3.29 350 ePb 35 55.00 2.5
 PLG 3.37 12 ePn 35 52.50 -1.2
 KEK 3.40 322 ePb 36 00.70 6.6X
 SMG 3.48 78 ePn 35 56.00 0.8
 PRK 3.66 52 ePg 36 07.80 10.1X
 KAP 4.04 111 ePn 36 03.00 -0.1
 KNT 4.10 4 eP 36 03.50 -0.4
 VAY 4.24 0 ePn 36 06.00 0.0
 OHR 4.26 342 ePn 36 04.70 -1.5
 ARG 4.57 99 ePn 36 11.00 0.3
 SGO 6.63 304 P 36 40.00 0.2
 HFS 23.77 349 eP 40 11.00 -2.0
 0.4s 2.10nm 4.1mb
 S.D. = 1.2 on 20 of 23 obs.

AUG 08, 1990 09h 53m 18.74±0.89s
 37.038 N ±9.7km 21.993 E ±6.2km
 DEPTH = 13.7 ±4.4 km
 4.1mb (1 obs.)
 SOUTHERN GREECE (368)
 MD 3.5 (ATH).

ITM 0.15 339 iPg 53 21.10 -1.6
 VLI 0.82 113 iPg 53 34.00 -0.3
 VLS 1.59 316 ePb 53 47.10 0.5
 ATH 1.66 55 ePb 53 48.00 0.5
 S 54 11.50
 EVR 1.88 356 ePg 53 53.80 2.9X
 VAM 2.41 132 ePb 54 03.50 5.1X
 NEO 2.46 23 ePn 53 58.60 -0.5
 APE 2.83 88 ePn 54 05.00 0.6
 KEK 3.18 328 ePn 54 10.00 0.7
 KZN 3.27 357 ePn 54 09.60 -1.0
 NPS 3.42 120 ePg 54 24.10 11.3X
 PLG 3.52 18 ePn 54 12.70 -1.4
 SMG 3.92 79 ePn 54 19.50 -0.2
 PRK 4.03 56 ePb 54 26.60 5.3X
 OHR 4.17 347 ePn 54 25.30 1.9
 VAY 4.30 6 ePn 54 26.00 0.8
 SOI 4.83 284 P 54 32.00 -0.7
 SKO 4.95 355 ePn 54 21.00 -13.4X
 ARG 5.00 98 ePn 54 38.70 3.6X
 MGR 5.92 303 P 54 48.00 0.0
 S 55 58.00
 DEV 8.86 4 iPc 54 57.00 -32.3X
 EKA 25.03 325 P 58 44.00 0.5
 1.0s 4.80nm 4.1mb
 S.D. = 1.1 on 15 of 22 obs.

% AUG 08, 1990 10h 10m 57.69±2.75s
 44.278 N ±13.1km 6.706 E ±18.0km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.0 (GEN).

PZZ 0.36 51 P 11 05.46 0.3
 S 11 09.84
 STV 0.45 94 P 11 06.99 0.2
 S 11 12.30
 ENR 0.52 95 P 11 08.22 0.1
 S 11 14.56
 RRL 0.64 5 P 11 10.74 0.0
 S 11 18.86
 ROB 0.84 88 P 11 13.70 -0.2
 IMI 0.93 113 P 11 15.89 0.4
 FIN 1.08 93 P 11 17.33 -0.7
 S.D. = 0.5 on 7 of 7 obs.

* AUG 08, 1990 10h 33m 07.27±2.66s
 21.218 S ±16.1km 178.652 W ±11.5km
 DEPTH = 555.7 ±37.3 km
 4.3mb (2 obs.)
 FIJI ISLANDS REGION (181)

DZM 13.89 264 iPc 36 05.20 -0.1
 PUZ 17.01 188 P 36 36.50 0.8
 WLZ 17.30 195 P 36 40.20 1.7
 NOZ 17.57 189 P 36 41.10 0.0
 THZ 21.69 197 P 37 19.80 0.2
 LTZ 22.81 197 P 37 27.30 -2.4
 CAN 31.61 237 eP 38 46.90 0.4
 BWA 31.81 238 eP 38 47.00 -1.2
 WB5 43.89 263 eP 40 26.10 -0.6
 WRA 43.90 263 P 40 27.00 0.2
 0.7s 0.90nm 3.4mb X
 PRS 78.76 44 eP 44 14.00 0.3

GCC 78.77 43 eP 44 13.80 0.0
 SAO 78.97 43 eP 44 15.00 0.2
 MHC 79.19 43 eP 44 16.30 0.2
 FRI 80.22 44 eP 44 22.00 0.7
 CMB 80.40 43 eP 44 22.00 -0.3
 WDC 80.61 40 eP 44 23.00 -0.3
 ORV 80.62 41 eP 44 23.00 -0.3
 MIN 81.03 40 eP 44 25.40 -0.2
 PNT 87.59 34 eP 44 57.00 -0.3
 0.6s 5.00nm 4.5mb
 ALO 88.32 51 eP 45 00.70 -0.6
 CHTO 89.92 290 eP 45 10.40 1.7
 0.5s 1.28nm 4.1mb
 NB2 139.61 353 PKP 51 26.00 -7.0X
 0.6s 1.30nm
 HFS 140.15 350 ePKP 51 26.20 -7.7X
 0.7s 3.80nm
 KSP 148.19 342 iPKP 51 52.00 4.3X
 CLL 148.61 346 iPKPd 51 53.00 4.7X
 0.9s 19.00nm
 BRG 148.79 345 iPKP 51 53.50 4.9X
 PRU 149.45 343 PKP 51 54.50 4.9X
 MOX 149.54 347 e(PKP) 51 55.00 5.3X
 S.D. = 0.9 on 22 of 29 obs.

* AUG 08, 1990 11h 10m 21.83±1.04s
 31.217 S ±11.4km 69.040 W ±12.9km
 DEPTH = 33.0km (normal)
 SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.34 143 iPd 10 32.20 2.0
 ZON 0.45 137 iPd 10 32.00 0.2
 S 10 44.00
 RTBS 0.57 218 iPd 10 33.20 -0.2
 RTCV 0.77 146 iPd 10 35.00 -1.3
 S 10 49.00
 CFA 0.79 120 ePc 10 35.80 -0.7
 S 10 50.00
 RTRS 1.10 341 iPd 10 41.00 0.0
 S.D. = 1.5 on 6 of 6 obs.

* AUG 08, 1990 11h 10m 49.12±1.63s
 35.753 N ±10.8km 140.153 E ±16.1km
 DEPTH = 123.6 ±11.1 km
 4.8mb (12 obs.)
 NEAR EAST COAST OF HONSHU, JAPAN(228)

MAT 1.76 297 iPc 11 20.30 0.0
 S 11 43.00
 SHK 6.24 261 iPc 12 20.80 0.6
 0.9s 1176.47nm 6.2mb X
 MDJ 11.97 321 eP 13 36.50 -0.3
 BJI 19.38 290 eP 15 05.00 -2.6
 1.8s 41.00nm 4.5mb
 GUMO 22.47 168 eP 15 44.30 5.6X
 0.5s 30.61nm 4.9mb
 PJG 22.47 168 eP 15 43.70 5.0X
 GUA 22.53 168 eP 15 44.30 5.0X
 0.7s 43.84nm 4.9mb
 HHC 22.95 291 eP 15 44.00 0.7
 XAN 25.62 275 P 16 08.50 -0.1
 LZH 29.30 281 Pd 16 41.50 -0.5
 2.0s 32.00nm 4.7mb
 GTA 31.99 289 eP 17 06.00 0.5
 0.6s 4.00nm 4.4mb
 CHTO 39.99 256 eP 18 17.10 3.9X
 1.0s 2.00nm 3.9mb
 WMO 40.53 298 P 18 19.10 1.7
 PKI 46.79 276 P 19 08.80 0.4
 KKN 46.81 276 P 19 07.20 -1.2
 DMN 47.02 276 P 19 10.80 0.7
 GKN 47.24 277 P 19 12.00 0.3
 MTN 49.08 192 eP 19 25.50 -0.1
 0.3s 34.00nm 5.7mb
 WB5 55.60 187 iPd 20 13.20 -0.9
 WRA 55.66 187 Pc 20 14.30 -0.2
 0.4s 8.20nm 5.0mb
 INK 55.99 27 eP 20 32.00 15.6X
 MBL 59.79 202 iPd 20 43.20 -0.1
 0.3s 9.00nm 5.3mb
 NANU 62.51 206 eP 21 02.10 0.5
 0.4s 8.00nm 5.0mb
 WARB 62.91 194 eP 21 05.00 0.7
 0.5s 6.00nm 4.8mb
 STK 67.29 179 eP 21 32.10 -0.2
 NB2 74.97 337 P 22 18.20 0.2
 0.8s 2.10nm 4.0mb

08d 14h

PMR 62 73 337 eP 53 05.30 -0.9
1 5s 53.80nm 5.5mb
INK 63.01 348 eP 53 07.00 -1.0
FBA 64.31 341 eP 53 18.40 1.8
TTA 66 15 337 eP 53 27.10 -1.5
PDCR 67.06 107 eP 53 36.10 1.0
MBC 68.29 356 eP 53 40.00 -1.8
1 0s 24.00nm 5.3mb

WB5 123.24 252 ePKP 01 36.60 -1.9
WRA 123.26 252 PKPc 01 34.30 -4.3X
0 8s 3.20nm
WMO 126.99 350 ePKP 01 47.00 1.8
Z 20s 1.40um 5.6msz

PP 03 44.90
SKKS 10 33.00
GTA 127.75 337 ePKP 01 49.20 2.3
Z 20s 0.60um 5.3msz

XAN 127.84 326 PKP 01 50.00 2.9X
LZH 128.84 332 PKPc 01 52.50 3.4X
MAIO 132.58 19 ePKP 02 06.00 9.9X
KMI 138.07 324 PKPc 02 05.50 -1.5
LOE 144.33 316 ePKP 02 15.40 -2.6X
CHG 145.13 321 iPKPd 02 18.10 -1.2
1.1s 41.14nm

BDT 146.26 319 ePKP 02 21.40 0.2
NST 146.63 316 ePKP 02 23.00 1.2
NNT 149.01 312 ePKP 02 27.00 1.4
IPM 152.52 297 ePKPd 02 38.90 7.9X
S.D. = 1.3 on 59 of 73 obs.

AUG 08, 1990 14h 43m 13.95 ± 0.70s
42.945 N ± 9.0km 17.932 E ± 6.2km
DEPTH = 5.0km (geophysicist)
ADRIATIC SEA (382)
ML 2.9 (TTG).

BRY 0.45 95 ePg 43 22.20 -0.8
eSg 43 29.80
HCY 0.65 140 ePg 43 26.50 -0.4
iSg 43 37.20
NKY 0.79 99 ePg 43 29.40 -0.5
eSg 43 41.20
BDV 0.94 135 ePg 43 31.30 -1.0
eSg 43 46.60
TTG 1.11 117 ePg 43 35.30 0.1
eSg 43 52.00
HVAR 1.11 283 iPg 43 34.90 -0.4
iSg 43 52.10
PLE 1.14 70 ePg 43 35.10 -0.7
eSg 43 52.30
ULC 1.38 135 ePg 43 39.50 -0.4
eSg 44 01.20
IVA 1.45 92 ePg 43 41.20 0.3
eSg 44 03.00
SDA 1.49 128 ePn 43 48.70 7.4X
PVY 1.54 102 ePn 43 43.80 1.5
eSn 44 06.50

PUK 1.71 121 ePn 43 46.60 2.1
BRT 2.14 195 P 43 56.50 5.8X
PHP 2.25 123 ePn 43 56.40 4.1X
SKO 2.77 109 ePn 44 03.50 3.7X
OHR 2.81 130 ePn 44 07.50 7.0X
VBY 3.20 324 e(Pn) 44 17.40 11.6X
e(Sn) 44 58.70
BZS 3.76 43 ePc 44 24.00 10.2X
VOY 4.23 318 ePn 44 20.70 0.2
eSn 45 15.50

S.D. = 1.0 on 12 of 19 obs.
AUG 08, 1990 15h 38m 36.10 ± 0.73s
42.083 N ± 8.8km 24.754 E ± 5.8km
DEPTH = 10.0km (geophysicist)
BULGARIA (359)
MD 2.9 (ATH).

DIM 0.58 93 iPg 38 48.00 0.1
e 58 58.00
PGB 0.64 317 iPg 38 48.00 -0.9
Sg 38 58.00
KDZ 0.66 131 iPd 38 48.00 -1.2
iSg 38 57.00
MMB 0.91 238 ePg 38 53.00 -0.6
iSg 39 06.00
RDO 1.11 148 ePb 38 56.00 -0.8
eSb 39 14.50
VTS 1.25 294 ePg 39 00.00 0.5
iSg 39 19.00

KKB 1.26 261 iP 38 59.00 -0.6
Sg 39 16.00
JMB 1.41 74 eP 39 03.00 1.2
PLG 1.97 210 ePn 39 12.30 2.4
S.D. = 1.4 on 9 of 9 obs.

& AUG 08, 1990 15h 54m 17.13s
62.641 N 149.640 W
DEPTH = 68.9km
CENTRAL ALASKA (1)
<AGS-P>.

HUR 0.34 0 iP 54 28.47 -0.2
eS 54 36.74
CUT 0.38 231 iP 54 28.88 0.0
iS 54 37.50
GHO 0.93 159 iP 54 34.94 -0.1
eS 54 49.06
PWA 1.00 187 eP 54 35.83 0.0
iS 54 51.51
SML 1.04 143 iP 54 36.03 -0.3
eS 54 52.02
PLRM 1.08 167 iP 54 36.74 -0.1
PMR 1.08 167 iPc 54 36.80 0.0
SKT 1.10 234 iP 54 37.19 0.0
MCK 1.14 16 eP 54 37.49 -0.2
SUA 1.29 204 iP 54 39.94 0.2
iS 54 58.91
SCM 1.35 126 eP 54 40.46 -0.1
PMS 1.40 178 eP 54 41.54 0.4
TOA 1.70 107 ePc 54 46.20 0.9
NCG 1.72 225 eP 54 45.43 -0.1
CGLM 1.74 221 eP 54 45.85 0.0
CRP 1.82 222 eP 54 47.33 0.3
SPU 1.86 219 eP 54 47.66 0.2
eS 55 12.56

BGL 1.90 224 iP 54 48.65 0.6
SDG 1.90 92 eP 54 48.97 1.0
CKL 1.93 223 eP 54 48.65 0.2
WRH 1.96 20 eP 54 48.06 -0.8
NKA 2.05 203 eP 54 52.94 2.9
DDM 2.06 54 eP 54 51.69 1.4
KLU 2.10 122 eP 54 50.15 -0.6
HDA 2.14 33 iP 54 50.57 -0.7
SLKM 2.16 188 eP 54 51.88 0.3
VZW 2.16 136 iP 54 50.73 -0.9
CCB 2.17 21 eP 54 50.85 -0.9
VLZ 2.18 133 eP 54 50.76 -1.0
DMW 2.26 49 eP 54 53.92 0.9
FBA 2.41 19 iP 54 54.30 -0.7
RDT 2.46 214 eP 54 56.23 0.4
SEW 2.55 178 eP 54 57.60 0.7
GLM 2.56 22 eP 54 56.24 -0.9
RED 2.69 215 eP 54 59.75 0.8
DOT 2.73 66 eP 54 59.23 -0.3
NNL 2.73 198 eP 55 01.23 1.8
TTA 2.94 278 eP 55 01.50 -1.1
GLB 3.00 111 eP 55 02.58 -0.7
CNPM 3.22 195 eP 55 06.47 0.1
SVW 3.22 244 eP 55 05.50 -1.0
PDB 3.61 220 eP 55 12.30 0.5
AUE 3.76 211 eP 55 15.89 2.0
IMA 3.86 335 eP 55 14.60 -0.9

44 obs. associated
* AUG 08, 1990 17h 14m 59.52 ± 2.51s
31.242 S ± 11.7km 69.254 W ± 13.9km
DEPTH = 131.5 ± 27.3 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTBS 0.45 202 iPd 15 18.60 -0.1
RTCB 0.46 122 iPd 15 18.90 0.0
ZON 0.58 122 eP 15 19.00 -0.5
eS 15 32.00
RTLL 0.68 98 ePd 15 19.20 -1.0
RTCV 0.87 135 ePd 15 21.70 0.0
S 15 36.40
CFA 0.94 113 ePc 15 22.50 0.2
eS 15 38.50
RTRS 1.08 351 iPc 15 24.30 0.7
eS 15 42.00
MDZ 1.67 168 eP 15 31.20 1.1
iS 15 54.30
JACH 1.83 218 iPd 15 32.40 0.3
iS 15 57.10
PEL 2.25 212 iPd 15 37.40 0.2
iS 16 05.50

FCH 2.26 203 iP 15 39.00 1.4
iS 16 08.50
ROCH 2.28 220 iP 15 37.50 -0.2
iS 16 06.20
PCH 2.60 204 iP 15 42.60 0.9
i 16 16.00
TACH 2.79 210 iP 15 42.70 -1.4
i 16 18.50
CHCH 2.93 203 iP 15 46.00 0.0
iS 16 22.00
LNV 3.26 213 iPc 15 48.60 -1.6
e 16 25.30
S.D. = 0.9 on 16 of 16 obs.

? AUG 08, 1990 17h 45m 51.85 ± 11.78s
14.989 N ± 29.3km 59.887 W ± 90.0km
DEPTH = 10.0km (geophysicist)
WINDWARD ISLANDS (95)
ML 3.4 (FDF).

CRM 1.02 257 eP 46 11.50 0.3
MVM 1.07 246 eP 46 11.93 0.0
BIM 1.24 248 eP 46 14.84 0.0
FDF 1.25 258 eP 46 14.75 -0.3
S 46 33.80
MGG 1.66 304 eP 46 21.00 -0.1
PAG 2.01 301 eP 46 26.40 0.1
S.D. = 0.3 on 6 of 6 obs.

AUG 08, 1990 18h 07m 17.82 ± 0.68s
16.339 N ± 6.7km 120.832 E ± 10.5km
DEPTH = 10.0km (geophysicist)
4.3mb (2 obs.) 3.8msz (1 obs.)
LUZON, PHILIPPINE ISLANDS (249)

BAG 0.25 286 iPd- 07 24.10 0.9
SZP 1.26 343 iPd 07 40.00 -1.2
iS 07 57.00
OCP 1.71 172 eP 07 52.00 4.2X
PIP 1.99 354 iPd 07 41.00 -10.8X
iS 08 24.50
PGP 2.82 178 ePd 08 04.00 0.2
iS 08 30.00
PPR 6.84 198 ePc 08 59.50 -1.1
NNT 20.76 262 P 12 01.00 -0.5
BJI 23.96 351 eP 12 33.50 0.4
Z 20s 0.30um 3.8msz
eS 17 00.00
WB5 38.37 159 eP 14 41.20 0.1
WRA 38.42 159 P 14 42.00 0.5
1.0s 4.00nm 4.1mb
NUR 78.94 330 eP 19 33.00 10.1X
NB2 84.99 333 P 19 55.20 0.7
0.9s 3.10nm 4.5mb
S.D. = 0.9 on 9 of 12 obs.

* AUG 08, 1990 18h 07m 26.81 ± 1.01s
14.733 N ± 7.6km 60.462 W ± 11.9km
DEPTH = 33.0km (normal)
4.1mb (1 obs.)
WINDWARD ISLANDS (95)
ML 4.4 (FDF). Felt (11) on
Martinique.

FDF 0.67 270 iPd 07 38.60 -1.2
DBCT 1.01 302 eP 07 45.43 0.7
DPMT 1.03 300 eP 07 45.45 0.5
BBL 1.26 309 eP 07 48.85 0.7
S 08 04.10
MGG 1.44 325 eP 07 50.36 -0.4
SFG 1.67 335 eP 07 53.10 -1.0
PAG 1.74 318 eP 07 55.14 -0.1
S 08 19.90
BPA 2.66 330 eP 08 09.42 1.1
CPB 3.17 336 eP 08 11.34 -4.2X
TCE 4.20 198 eP 08 30.62 0.4
YKA 60.86 334 eP 17 37.30 -0.8
0.8s 1.40nm 4.1mb
INK 70.16 338 eP 18 45.00 7.2X
SOD 75.40 24 eP 19 09.00 0.3
SUF 75.49 28 eP 19 15.00 5.8X
S.D. = 0.9 on 11 of 14 obs.

* AUG 08, 1990 19h 27m 06.25 ± 0.93s
6.189 S ± 11.1km 149.034 E ± 7.6km
DEPTH = 60.8 ± 10.7 km
4.7mb (3 obs.)

BLF	1.20	213	iPc	26 07.50	0.8	Z	20s	1.20um	4.2Msz	GBA	41 78 272	Pc	35 35.80	-0.6
			S	26 09.00		N	14s	0.70um			0.8s	13.70nm		4.7mb
BFS	1.21	354	iPc	26 07.50	-1.0	E	14s	0.90um		KSH	45.15	310 eP	36 05.20	1.4
			S	26 22.50		NNT	20.58	262 iPc	32 27.00 0.2	STK	51.94	157 eP	37 01.20	5.0X
PRY	1.27	22	eP	26 10.50	1.0	XAN	20.59	331 P	32 26.10 -0.8	MAIO	57.41	303 iPc	37 35.40	-0.9
			S	26 27.00		N	13s	1.20um		TTA	72.62	28 eP	39 15.20	0.9
KIM	2.00	251	eP	26 21.00	0.6	E	13s	1.20um		PMR	75.94	30 eP	39 33.90	0.6
			S	26 44.00				eS	36 17.00		0.8s	15.80nm		5.1mb
BPI	2.16	27	eP	26 23.50	0.8	BDT	20.74	276 eP	32 28.00 -0.5	FBA	76.06	26 e(P)	39 33.90	-0.1
			S	26 47.40			1.0s	58.00nm	4.9mb	KEV	76.11	339 eP	39 33.00	-1.2
FRS	2.16	220	iPc	26 22.50	0.0	CHG	20.84	280 ePd	32 29.10 -0.5		0.6s	7.80nm		4.9mb
			S	26 48.50			1.0s	28.00nm	4.6mb			i	39 40.50	
KSR	2.23	359	eP	26 23.00	-0.7	CHTO	20.84	280 eP	32 28.80 -0.8	SOD	76.65	337 iP	39 36.00	-1.2
			S	26 47.20			1.4s	49.04nm	4.7mb	TOA	77.24	29 eP	39 41.80	1.1
EVA	2.48	51	iPd	26 55.40	28.1X	CD2	21.20	316 eP	32 32.70 -0.6	SUF	77.72	332 eP	39 42.00	-1.2
			S	27 25.10		Z	14s	0.80um	4.3MszX	NUR	78.90	330 iP	39 50.60	0.9
SLR	2.65	27	iPd	26 29.50	-0.1	N	17s	1.70um			0.9s	18.60nm		5.1mb
			S	27 00.20		E	16s	1.40um		MBC	81.04	12 eP	40 02.00	1.0
HVD	2.79	206	eP	26 49.00	17.3X			PP	32 41.50		0.8s	8.00nm		4.8mb
BFT	3.68	50	eP	26 44.10	-0.2			SP	32 46.00	UPP	82.45	330 iP	40 07.70	-0.8
			S	27 28.50				eS	36 28.00	HFS	84.19	331 eP	40 15.70	-1.8
GRM	5.20	183	eP	27 04.50	-1.3	MKS	21.40	183 e(P)c	32 37.50 2.3		0.4s	2.60nm		4.8mb
			S	28 01.00		IPM	22.50	241 eP	32 48.10 1.8	NAI	84.44	267 eP	40 22.00	2.1
BUL	8.07	11	ePn	27 39.10	-7.2X		0.9s	36.40nm	4.9mb	NB2	84.95	333 P	40 19.60	-1.7
			iSn	29 06.50		TIY	22.54	343 eP	32 47.30 0.7		0.9s	19.00nm		5.3mb
			iSg	29 51.00		Z	15s	1.70um	4.6MszX	VAY	85.31	312 iP	40 23.70	0.2
CIR	8.23	32	ePn	27 44.50	-3.8X	N	15s	1.10um		VAM	85.83	306 eP	40 45.00	18.8X
			eSn	29 15.00		GUMO	23.55	93 eP	33 11.00 14.4X	SKO	85.92	312 iP	40 26.20	-0.3
			eSg	30 04.00		BJI	23.99	352 eP	33 00.50 0.0	SRO	86.12	319 eP	40 27.80	0.4
WIN	10.46	300	eP	28 13.50	-5.8X		1.5s	140.00nm	5.3mb	KSP	86.29	322 eP	40 28.00	-0.2
KRI	11.49	13	ePn	28 22.00	-11.4X	Z	20s	0.90um	4.2Msz	VLI	86.42	307 eP	40 32.00	2.9
			eSn	30 15.00		E	18s	1.02um		OHR	86.65	312 eP	40 29.00	-1.2

09d 01h

28.215 S \pm 8.9km 70.879 W \pm 18.9km
 DEPTH = 33.0km (normal)
 CENTRAL CHILE (136)

RTRS 2.31 148 ePd 19 03.10 1.0
 eS 19 23.60
 RTBS 3.65 161 eP 19 23.30 2.2
 RTCB 3.73 152 eP 19 22.40 0.1
 RTLL 3.74 147 ePc 19 21.20 -1.3
 ZON 3.83 151 eP 19 24.00 0.3
 CFA 4.08 147 e(P) 19 26.00 -1.4
 e 19 29.10
 eS 20 15.00
 RTCV 4.16 151 e(P) 19 28.00 -0.5
 JACH 4.46 177 eP 19 35.00 2.2
 ANT 4.51 5 eP 19 33.50 0.1
 ROCH 4.74 181 eP 19 42.00 5.1X
 IHA 4.84 188 eP 20 31.00 53.0X
 eS 20 51.50
 PEL 4.92 178 ePc 19 39.50 0.3
 i(S) 20 39.50
 MDZ 4.97 160 eP 19 40.60 0.6
 i 20 43.30
 FCH 5.12 174 eP 19 46.50 4.1X
 PCH 5.40 177 eP 19 49.30 3.3X
 TACH 5.42 181 eP 19 44.50 -1.8
 CHCH 5.70 178 eP 19 49.00 -1.3
 i 21 05.50
 LNV 5.74 184 eP 19 50.40 -0.3
 i 20 00.00
 iS 21 12.50
 ARE 11.71 357 eP 21 35.00 21.3X
 S.D. = 1.3 on 14 of 19 obs.

AUG 09, 1990 01h 35m 35.43 \pm 0.65s
 40.817 N \pm 5.5km 22.471 E \pm 5.6km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 MD 2.2 (THE). ML 1.7 (SKO).

GRG 0.15 339 iPg 35 39.10 0.2
 eSg 35 41.30
 THE 0.42 116 ePg 35 45.00 1.0
 eSg 35 53.40
 KNT 0.47 43 ePg 35 45.20 0.2
 eSg 35 52.20
 VAY 0.51 8 iPg 35 45.20 -0.5
 iSg 35 52.40
 LIT 0.72 179 ePg 35 48.90 -0.6
 eSg 36 00.00
 SRS 0.90 70 ePg 35 51.90 -0.8
 OHR 1.30 284 ePn 35 59.50 0.0
 SKO 1.39 326 ePn 36 01.50 0.7
 S.D. = 0.8 on 8 of 8 obs.

& AUG 09, 1990 02h 06m 36.19s
 19.340 N 155.114 W
 DEPTH = 9.3km
 4.8mb (17 obs.) 4.7msz (1 obs.)
 HAWAII (613)

<HVO> ML 5.0 (HVO). Felt (V)
 at Hilo, Honou and Pepeekeo;
 (IV) at Hokolou and Volcano;
 (III) at Honokaa, Mountain View,
 Poquillo, Pahala and Popooloo.

KAE 0.05 199 iPc 06 38.15 -0.1
 MKA 0.05 300 iPd 06 38.17 -0.2
 WHA 0.06 98 iPc 06 38.17 -0.2
 PUH 0.11 291 iPd 06 38.83 -0.1
 PWH 0.12 242 iPd 06 39.30 0.2
 ESR 0.14 301 iPd 06 39.46 0.0
 AHA 0.15 283 iPd 06 39.59 0.0
 HUL 0.15 58 iPc 06 39.55 0.0
 RIM 0.16 291 iPd 06 39.80 -0.2
 KNH 0.17 268 iPd 06 39.92 -0.1
 OUT 0.17 287 iPd 06 39.88 -0.1
 MVH 0.17 17 iPd 06 40.03 0.0
 NPH 0.18 295 iPd 06 39.86 -0.3
 UWE 0.19 296 iP 06 40.40 0.0
 HLP 0.19 258 iPd 06 40.46 0.1
 CPK 0.21 285 iPd 06 40.45 -0.3
 PKL 0.22 57 iPd 06 40.58 -0.3
 MLX 0.25 299 iPd 06 41.15 -0.4
 DES 0.26 269 iPd 06 41.22 -0.4
 POH 0.27 65 eP 06 41.72 -0.2
 HBH 0.28 47 iPc 06 42.16 0.2

HTC 0.29 250 iPd 06 42.28 0.1
 KFH 0.30 286 iPd 06 42.33 -0.1
 KPO 0.30 58 iPd 06 42.15 -0.3
 MLH 0.30 301 iPd 06 42.22 -0.3
 AIN 0.33 276 iPd 06 42.73 -0.3
 NGH 0.37 13 iPd 06 44.02 0.3
 PPL 0.38 241 iPc 06 43.69 -0.2
 WOH 0.38 257 iPd 06 43.60 -0.3
 PLL 0.38 300 iPd 06 43.36 -0.7
 TRH 0.42 280 iPd 06 44.31 -0.5
 HMH 0.44 307 iPd 06 44.57 -0.6
 WIH 0.46 286 iPd 06 44.95 -0.7
 SWH 0.48 284 iPd 06 44.93 -1.1
 MWH 0.48 288 iPd 06 45.22 -0.8
 KHU 0.49 259 iPc 06 45.12 -1.0
 WOB 0.49 294 iPd 06 45.29 -0.8
 DAH 0.52 272 iPd 06 45.58 -1.3
 HPU 0.55 324 ePd 06 46.48 -0.8
 KKV 0.59 338 iPc 06 47.50 -0.6
 SPT 0.63 236 eP 06 46.66 -2.2
 KIH 0.64 285 iPc 06 47.36 -1.6
 KUH 0.72 264 iPc 06 48.14 -2.3
 WKH 0.73 315 iPc 06 48.82 -1.9
 HUH 0.77 297 iPc 06 49.70 -1.7
 CPH 0.77 281 ePc 06 48.90 -2.4
 KOH 1.00 321 ePc 06 52.29 -3.1
 HON 3.36 306 P 07 23.50 -6.3
 OPA 3.58 311 P 07 31.00 -2.1
 PRS 34.08 53 eP 13 22.70 -0.4
 MHC 34.25 51 eP 13 24.50 -0.2
 PRI 34.55 54 eP 13 27.20 -0.1
 WDC 34.98 46 eP 13 29.30 -1.5
 ORV 35.24 48 eP 13 32.60 -0.4
 CMB 35.43 51 eP 13 33.90 -0.9
 MIN 35.51 47 eP 13 35.00 -0.5
 KVN 37.47 50 eP 13 51.00 -1.1
 TNP 37.79 52 eP 13 54.50 -0.3
 0.9s 3.13nm 4.1mb
 LON 38.59 37 eP 14 00.20 -1.0
 PNT 41.24 35 eP 14 23.00 0.0
 SVW 41.73 360 eP 14 25.70 -1.2
 NEW 42.08 38 eP 14 29.00 -1.0
 1.4s 10.87nm 4.4mb
 PMR 42.42 4 eP 14 31.90 -0.5
 1.6s 67.60nm 5.1mb
 DAU 42.91 51 eP 14 37.00 -0.2
 TTA 43.56 359 eP 14 40.30 -1.5
 LRM 43.87 43 eP 14 44.30 -0.6
 IMW 44.19 46 eP 14 47.00 -0.5
 BW06 44.80 48 eP 14 50.50 -1.9
 0.9s 3.39nm 4.3mb
 ALO 45.56 60 eP 14 57.50 -1.0
 1.0s 3.25nm 4.2mb
 ANMO 45.56 60 eP 14 58.00 -0.5
 1.2s 5.86nm 4.4mb
 FBA 45.79 4 eP 14 57.90 -1.8
 SES 46.60 38 eP 15 06.00 -0.3
 EDM 46.64 33 eP 15 05.00 -1.6
 GOL 47.14 53 eP 15 10.00 -1.0
 1.2s 5.12nm 4.5mb
 INK 50.80 10 eP 15 37.00 -1.5
 YKA 51.33 23 eP 15 40.50 -2.1
 0.9s 5.00nm 4.4mb
 BRW 51.98 359 eP 15 44.60 -2.7
 ME0 52.01 61 iPd 15 46.50 -1.7
 TUL 54.31 59 eP 16 03.50 -1.8
 1.2s 8.20nm 4.6mb
 LNO 54.32 59 e(P) 16 04.30 -0.9
 UYO 55.41 61 eP 16 10.80 -2.5
 FVM 58.62 57 eP 16 33.30 -2.7
 MBC 59.80 9 eP 16 41.00 -2.6
 0.8s 11.00nm 5.0mb
 MAT 60.25 302 eP 16 45.00 -2.4
 1.5s 72.22nm 5.6mb
 (S) 25 16.00
 RSCP 62.63 59 eP 17 01.00 -2.5
 0.8s 16.03nm 5.3mb
 JSC 66.30 60 eP 17 25.00 -2.3
 MDJ 66.32 311 eP 17 25.20 -2.1
 BLA 66.59 57 eP 17 26.20 -3.0
 1.0s 12.50nm 5.1mb
 CN2 69.37 310 eP 17 43.80 -2.6
 1.0s 10.00nm 4.9mb
 2 20s 0.40um 4.7msz
 PP 17 53.00
 TBR 70.81 52 eP 17 52.60 -2.6
 HBVT 71.15 49 eP 17 55.00 -2.2

BJI 76.87 308 eP 18 29.00 -1.4
 1.5s 52.00nm 5.4mb
 WHN 80.86 299 eP 18 50.00 -2.3
 XAN 84.15 304 Pd 19 08.20 -1.1
 LZH 87.33 307 eP 19 22.50 -2.7
 2.0s 50.00nm 5.4mb
 GTA 88.97 312 Pc 19 32.60 -0.4
 1.2s 13.00nm 5.1mb
 96 obs. associated

* AUG 09, 1990 02h 12m 37.76 \pm 1.27s
 39.390 N \pm 10.9km 25.955 E \pm 10.9km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)
 MD 2.9 (ATH).

PRK 0.28 120 ePg 12 44.00 0.3
 eS 12 51.00
 EZN 0.52 33 iPg 12 47.30 -1.0
 iSg 12 57.80
 IZM 1.42 134 ePn 13 02.00 -1.7
 EDC 1.75 56 ePn 13 09.60 1.2
 RDO 1.78 350 ePb 13 07.10 -1.7
 SMG 1.82 157 ePn 13 12.10 2.8X
 eSn 13 37.70
 DST 2.08 83 ePn 13 16.00 2.8X
 PLG 2.17 298 ePn 13 15.70 1.3
 CTT 2.58 46 ePn 13 57.00 36.7X
 IZI 2.87 70 ePn 13 26.00 1.6
 S.D. = 1.8 on 7 of 10 obs.

% AUG 09, 1990 02h 36m 33.92 \pm 0.78s
 47.586 N \pm 33.8km 5.448 E \pm 15.7km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.4 (LDG).

HAU 0.74 55 Pg 36 48.60 0.2
 BSF 0.94 74 Pn 36 51.80 -0.1
 Pg 36 52.60
 Sg 37 03.80
 LOR 1.12 254 Pn 36 55.20 0.2
 Pg 36 56.80
 Sg 37 11.30
 LBF 1.17 240 Pn 36 56.20 0.4
 Sn 37 10.50
 Sg 37 13.20
 SSF 1.42 249 Pn 36 59.10 -0.7
 Pg 37 04.40
 Sg 37 20.00
 SMF 1.45 230 Pg 37 04.40 4.3X
 Sg 37 21.60
 CDF 1.48 55 Pg 37 03.50 2.8X
 Sg 37 20.00
 AVF 1.64 242 Pg 37 06.80 4.0X
 Sg 37 27.30
 BGF 2.05 241 Pg 37 14.20 5.3X
 Sg 37 41.00
 S.D. = 0.6 on 5 of 9 obs.

* AUG 09, 1990 02h 42m 08.75 \pm 0.37s
 15.636 S \pm 15.3km 172.603 W \pm 13.7km
 DEPTH = 33.0km (normal)
 4.7mb (8 obs.) 5.0msz (3 obs.)
 SAMOA ISLANDS REGION (169)

DZM 20.82 249 iPd 46 50.90 0.7
 PRS 70.78 42 eP 53 24.00 -0.1
 SAO 71.00 41 e(P) 53 26.10 0.8
 PRI 71.12 42 eP 53 27.00 0.7
 MHC 71.22 41 eP 53 28.20 1.3
 LLA 71.23 42 eP 53 25.30 -1.5
 FRI 72.25 42 eP 53 33.60 0.8
 CMB 72.44 41 eP 53 34.30 0.3
 ORV 72.67 39 eP 53 36.00 0.7
 WDC 72.69 38 eP 53 35.70 0.4
 SPA 74.46 180 eP 53 44.90 -0.6
 1.0s 10.50nm 4.8mb
 KVN 74.48 41 P 53 45.80 -0.3
 TNP 74.49 42 P 53 45.90 -0.3
 0.9s 10.42nm 4.8mb
 GMW 77.05 32 P 54 00.30 0.1
 RMW 77.50 33 P 54 02.20 -0.5
 MSU 78.06 44 P 54 07.00 0.8
 DUG 78.51 42 P 54 08.70 0.1
 PMR 79.20 11 P 54 10.80 -0.8
 TTA 79.38 8 e(P) 54 12.50 -0.2

DAU 79.64 43 P 54 15.00 0.0
 PNT 79.80 32 eP 54 15.00 -0.2
 1.0s 19.00nm 5.0mb
 ALO 80.36 50 eP 54 18.80 0.0
 1.1s 6.33nm 4.5mb
 ANMO 80.37 50 P 54 18.80 0.0
 1.1s 7.91nm 4.6mb
 NEW 80.47 34 P 54 18.30 -0.5
 0.9s 6.58nm 4.6mb
 IMW 81.63 40 P 54 25.00 -0.4
 BW06 81.94 42 P 54 26.00 -0.9
 1.1s 4.76nm 4.4mb
 FBA 82.49 10 eP 54 27.90 -1.0
 GOL 83.27 46 P 54 33.50 -0.4
 0.9s 7.58nm 4.8mb
 SES 84.96 34 eP 54 42.00 0.1
 MEO 86.20 52 iPc 54 48.70 0.3
 PRU 145.25 352 PKPc 01 43.00 -1.6
 KHC 146.22 353 iPKP 01 47.00 0.7
 1.3s 11.00nm
 FLN 146.34 9 ePKP 01 46.00 -0.5
 0.8s 5.35nm
 Z 19s 0.25um 5.0msz
 MLR 146.40 336 ePKPc 01 47.00 0.1
 ZST 146.56 348 ePKP 01 46.80 0.0
 e 01 49.90
 LPF 146.95 10 ePKP 01 47.20 -0.3
 0.8s 5.35nm
 CDF 147.32 0 ePKP 01 49.40 1.2
 1.0s 6.00nm
 HAU 147.71 1 ePKP 01 50.40 1.7
 0.6s 2.70nm
 Z 18s 0.25um 5.0msz
 LOR 148.32 5 ePKP 01 52.10 2.4X
 0.8s 2.00nm
 Z 20s 0.17um 4.8msz
 SSF 148.50 5 ePKP 01 52.70 2.7X
 0.8s 4.05nm
 LBF 148.62 4 ePKP 01 52.60 2.3X
 0.8s 2.70nm
 AVF 148.76 5 ePKP 01 52.90 2.5X
 0.6s 1.35nm
 LSF 149.09 8 ePKP 01 53.60 2.6X
 0.8s 2.70nm
 LPL 150.21 1 ePKP 01 58.00 5.0X
 1.0s 4.00nm
 LPG 150.23 1 ePKP 01 58.10 5.0X
 1.0s 4.00nm
 OHR 152.08 338 ePKP 02 02.00 6.3X
 BCO 164.38 226 iPKPc 02 10.00 -0.9
 0.7s 6.00nm
 S.D. = 0.7 on 39 of 47 obs.
 & AUG 09, 1990 05h 31m 59.69s
 60.742 N 151.146 W
 DEPTH = 14.5km
 KENAI PENINSULA, ALASKA (14)
 <AGS-P>.
 NKA 0.05 271 iP 32 04.66 2.1
 SLKM 0.51 117 iP 32 09.21 -0.7
 SPU 0.63 315 iP 32 11.33 -0.5
 iS 32 20.05
 RDT 0.64 255 iP 32 11.58 -0.6
 eS 32 20.22
 CGLM 0.71 324 iP 32 12.78 -0.5
 >NNL 0.71 186 iP 32 13.78 0.6
 CRP 0.72 317 iP 32 13.34 -0.2
 CKL 0.74 309 iP 32 13.21 -0.6
 SUA 0.75 15 iP 32 13.67 -0.4
 BGL 0.80 311 iP 32 14.36 -0.5
 NCG 0.83 324 iP 32 14.65 -0.7
 RED 0.87 249 iP 32 15.14 -0.8
 iS 32 26.85
 PMS 0.92 56 eP 32 15.92 -1.0
 iS 32 27.98
 BRK 0.99 172 eP 32 17.09 -1.0
 SEW 1.06 127 eP 32 18.00 -1.2
 PWA 1.10 33 iP 32 19.31 -0.6
 eS 32 33.71
 HOM 1.12 193 eP 32 19.76 -0.4
 eS 32 34.49
 CNPM 1.22 182 iP 32 20.60 -1.4
 eS 32 36.30
 SKT 1.26 352 iP 32 22.11 -0.5
 eS 32 38.78
 PLRM 1.30 48 eP 32 21.36 -1.8

PMR 1.30 48 eP 32 22.50 -0.7
 XLV 1.32 193 eP 32 21.95 -1.7
 GH0 1.49 45 eP 32 25.16 -0.9
 CUT 1.72 14 eP 32 29.27 0.0
 eS 32 51.67
 SML 1.73 51 eP 32 29.03 -0.4
 AUE 1.78 220 eP 32 29.53 -0.6
 PDB 1.80 239 eP 32 29.92 -0.4
 eS 32 53.62
 SCM 2.14 58 eP 32 36.61 1.1
 SHU 2.21 197 eP 32 34.83 -1.5
 CDD 2.21 216 iP 32 35.89 -0.6
 SVW 2.22 281 eP 32 35.26 -1.3
 VZW 2.27 80 eP 32 36.94 -0.3
 VLZ 2.38 78 eP 32 38.82 0.1
 KLU 2.65 71 eP 32 42.78 0.1
 TOA 2.75 58 ePd 32 46.30 2.1
 TTA 3.18 316 eP 32 58.50 8.2
 GLB 3.63 76 eP 32 55.46 -1.2
 BALM 4.31 82 eP 33 04.32 -2.0
 FBA 4.45 19 eP 33 08.80 0.7
 IMA 5.47 349 eP 33 24.40 1.7
 40 obs. associated

& AUG 09, 1990 06h 28m 24.90s
 40.467 N 125.702 W
 DEPTH = 5.0km
 4.0mb (3 obs.)
 OFF COAST OF NORTHERN CALIFORNIA (34)
 <BRK>. ML 3.7 (BRK).

FHC 1.35 75 iPc 28 48.40 -1.9
 i 28 55.90
 iS 29 04.90
 WDC 2.41 86 iPc 29 03.00 -2.7
 iS 29 34.90
 LTCM 2.75 94 eP 29 07.50 -2.9
 LBFM 3.02 72 eP 29 12.50 -2.0
 MIN 3.13 91 iPc 29 12.80 -3.2
 iS 29 45.60
 ORV 3.35 104 iPc 29 16.30 -2.7
 iS 29 50.10
 BRK 3.72 133 ePc 29 21.70 -2.6
 BKS 3.73 133 eP 29 21.80 -2.7
 eS 30 00.50
 PCC 3.93 138 e(P) 29 24.60 -2.6
 MHC 4.45 133 eP 29 32.30 -2.4
 GCC 4.49 139 e(P) 29 32.10 -3.0
 ARN 4.50 132 eP 29 32.50 -2.9
 CMB 4.79 119 e(P) 29 37.90 -1.6
 SAO 4.98 137 eP 29 38.80 -3.3
 FRI 5.83 125 ePd 29 52.80 -1.3
 KVN 6.03 101 eP 29 53.20 -3.9
 LON 6.89 23 eP 30 08.00 -1.0
 TNP 7.00 107 eP 30 08.00 -2.8
 PNT 9.84 24 eP 30 53.00 3.0
 LRM 11.06 57 eP 31 05.00 -2.0
 ALO 16.19 104 eP 32 14.00 -0.9
 FFC 21.29 40 eP 33 15.00 0.7
 1.0s 22.00nm 4.5mb
 YKA 23.05 13 eP 33 41.50 9.7
 0.9s 1.00nm 3.3mb
 TUL 23.88 91 eP 33 38.20 -1.9
 0.8s 3.70nm 4.0mb
 24 obs. associated

% AUG 09, 1990 06h 29m 26.35 ± 0.93s
 15.717 N ± 13.2km 93.540 W ± 8.4km
 DEPTH = 33.0km (normal)
 NEAR COAST OF CHIAPAS, MEXICO (69)

SCX 1.34 41 iP 29 48.50 -0.3
 iS 30 06.00
 TPX 1.47 123 iP 29 51.00 0.1
 iS 30 11.00
 PSM 1.74 304 iP 29 55.25 0.4
 iS 30 18.50
 EVV 3.23 328 eP 30 16.50 0.6
 iS 30 49.50
 OXX 3.34 294 eP 30 17.50 -0.3
 iS 30 57.00
 LVVM 4.87 326 (P) 30 32.50 -6.6X
 PPM 5.89 305 eP 30 53.50 -0.6
 S.D. = 0.6 on 6 of 7 obs.

* AUG 09, 1990 06h 56m 51.06 ± 0.62s
 13.228 S ± 9.9km 112.106 W ± 11.0km

DEPTH = 10.0km (geophysicist)
 5.1mb (11 obs.) 4.8msz (3 obs.)
 NORTHERN EASTER I. CORDILLERA (694)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 125, 24C
 Centroid Location:
 Origin Time 06:56:52.5 1.2
 Lat 13.60S 0.12 Lan 111.95W 0.07
 Dep 15.0 FLX Half-duration 1.8
 Moment Tensor; Scale 10**16 Nm
 Mrr=-0.45 0.36 Mtt= 2.38 0.48
 Mff=-1.92 0.47 Mrt= 0.00 0.00
 Mrf= 0.00 0.00 Mtf= 8.56 0.45
 Principal Axes:
 T Val= 9.05 Plg= 0 Azm=142
 N -0.45 90 180
 P -8.60 0 52
 Best Double Couple: Mo=8.8*10**16
 NP1: Strike=187 Dip=90 Slip=-180
 NP2: 277 90 0

UPA 39.15 57 (P) 04 22.50 1.5
 Z 18s 2.41um 5.1msz
 ZOBO 42.58 100 P 04 36.00 -13.9X
 1.5s 83.33nm
 Z 24s 0.38um 4.2mszX
 i 04 53.00
 S 11 28.00
 LR 16 04.00
 LPB 42.60 100 P 04 31.00 -18.8X
 i 04 52.00
 LR 17 14.00
 CNCB 42.70 100 P 04 27.00 -23.9X
 i 04 53.80
 CCH 44.45 101 P 05 05.50 0.8
 BAR 45.86 355 eP 05 17.00 1.7
 GLA 46.09 357 eP 05 17.00 -0.2
 TPC 47.22 356 eP 05 27.00 0.9
 RVR 47.22 354 eP 05 23.00 -3.1X
 MWC 47.53 353 eP 05 35.00 6.3X
 SBB 47.96 354 eP 05 31.00 -1.0
 ALO 48.20 6 eP 05 34.00 0.0
 2.3s 70.45nm 5.3mb
 Z 18s 1.03um 4.9msz
 ANMO 48.21 6 P 05 34.40 0.4
 2.3s 68.18nm 5.3mb
 ISA 48.99 353 eP 05 40.00 0.1
 CLC 49.05 354 eP 05 41.00 0.7
 SIV 49.36 100 Pc 05 43.40 0.3
 MEO 49.44 15 iPd 05 43.70 0.4
 UYO 50.03 19 iPc 05 48.70 0.8
 RRO 50.14 15 e(P) 05 49.60 0.9
 1.3s 44.10nm 5.3mb
 SIO 50.95 17 e(P) 05 54.60 -0.2
 TUL 51.25 17 eP 05 56.80 -0.3
 1.3s 19.00nm 4.9mb
 Z 19s 0.20um 4.2msz
 LR 22 00.00
 LNO 51.25 17 eP 05 56.20 -0.8
 TNP 51.26 355 P 05 57.80 0.4
 2.0s 59.52nm 5.2mb
 BIX 51.30 17 iP 05 58.00 0.6
 MSU 51.47 360 P 05 59.80 0.8
 CMB 51.58 352 eP 06 00.40 0.8
 OLY 52.26 21 P 06 04.20 -0.5
 KVN 52.30 354 P 06 05.00 -0.3
 POW 52.94 21 P 06 09.00 -0.8
 GOL 53.03 7 P 06 10.10 -0.6
 1.4s 13.05nm 4.7mb
 GLD 53.09 7 P 06 11.70 0.6
 1.4s 30.41nm 5.0mb
 DUG 53.15 359 P 06 12.20 0.7
 ORV 53.23 351 eP 06 17.90 6.0X
 DAU 53.37 1 P 06 14.00 0.7
 WDC 54.40 350 eP 06 19.60 -0.9
 ELC 54.66 22 P 06 21.00 -1.4
 RSCP 54.67 27 P 06 22.00 -0.6
 FHC 54.87 349 eP 06 26.40 2.4
 JSC 55.61 31 P 06 29.00 -0.4
 LHS 55.99 31 P 06 31.80 -0.3
 IMW 56.86 1 P 06 37.30 -1.3
 BLA 58.35 30 P 06 48.10 -0.8
 0.9s 14.46nm 5.0mb
 NEW 61.38 356 P 07 09.60 0.1
 2.0s 55.97nm 5.4mb
 PNT 62.62 354 eP 07 18.00 0.2

09d 07h

SES 63.35 1 ePc 07 22.00 -0.6
 LVNJ 63.92 31 P 07 26.20 -0.2
 TBR 64.44 31 P 07 27.80 -2.0
 HBVT 67.41 29 P 07 47.80 -1.1
 BNH 68.45 30 P 07 55.00 -0.4
 PDCR 70.90 99 eP 08 11.80 0.9
 e 08 30.10
 YKA 75.50 359 eP 08 37.00 0.1
 1.2s 4.80nm 4.4mb
 SVW 81.71 340 eP 09 10.10 -0.8
 FBA 82.43 345 eP 09 14.30 -0.2
 INK 82.76 352 eP 09 16.00 -0.1
 MBC 89.40 358 eP 09 49.00 0.3
 1.1s 8.00nm 4.9mb
 ADI 144.27 51 ePKP 16 29.00 -0.5
 DSI 145.02 53 ePKPc 16 31.00 0.2
 SALJ 145.08 52 PKPc 16 30.90 -0.1
 KMI 145.13 295 PKPd 16 30.00 -1.5
 pP 16 35.00
 PRNI 145.20 55 iPKPc 16 32.00 0.8
 CHG 149.67 285 ePKP 16 45.80 7.2X
 KKN 158.25 314 PKP 17 00.00 9.5X
 S.D. = 0.9 on 54 of 62 obs.

AUG 09, 1990 07h 33m 52.35 ± 1.24s
 7.199 S ± 5.5km 129.187 E ± 6.4km
 DEPTH = 112.5 ± 12.6 km
 5.1mb (17 obs.)

BANDA SEA (280)

MTN 5.93 161 iPd 35 20.50 1.3
 KNA 8.51 183 iPd 35 53.90 -0.4
 eS 37 20.00
 WB5 13.57 159 iPd 36 58.00 -3.5X
 WRA 13.62 159 Pc 36 59.40 -2.7
 0.9s 286.20nm 5.7mb
 TSM 15.87 315 ePc 37 37.90 7.2X
 CGP 16.18 344 eP 37 39.00 4.4X
 TRT 16.42 267 ePc 37 38.20 0.7
 0.8s 133.40nm 5.2mb
 MBL 16.57 212 iPd 37 39.20 -0.1
 0.3s 30.00nm 5.0mb
 eS 40 30.00
 OIS 16.68 144 eP 37 36.00 -4.7X
 eS 40 31.00
 ASPA 16.99 165 iPd 37 43.30 -1.3
 0.6s 283.00nm 5.7mb
 Z 20s 0.73um 3.5msz
 eS 40 37.90
 LR 52 33.80
 PMG 17.91 98 eP 37 58.00 2.1
 KKM 18.46 315 ePc 38 04.00 1.7
 WARB 19.03 187 iPd 38 08.40 0.0
 eS 41 25.00
 NANU 20.16 219 eP 38 20.50 0.5
 0.3s 37.00nm 5.3mb
 eS 41 59.00
 CTA 20.93 129 iPd 38 28.20 0.4
 1.3s 123.08nm 5.1mb
 i 38 53.00
 i 39 08.20
 iS 42 15.50
 MEKA 21.81 206 iPc 38 37.20 0.7
 eS 42 36.00
 FORR 23.55 182 iPc 38 53.20 -0.2
 OLP 24.01 145 iPd 38 58.30 0.4
 eS 43 26.00
 MRWA 25.19 208 eP 39 08.50 -0.5
 0.3s 10.00nm 4.8mb
 e 39 36.00
 eS 43 50.00
 RMO 26.73 138 eP 39 22.00 -1.2
 e 39 55.00
 e 44 08.00
 STK 27.15 156 iPd 39 26.20 -0.7
 1.1s 49.00nm 5.0mb
 iS 44 34.80
 ADE 28.99 164 iPd 39 43.40 -0.2
 1.1s 156.96nm 5.6mb
 BRS 30.06 135 iPd 39 52.00 -1.1
 i 40 20.00
 COO 31.52 140 iPd 40 06.00 0.1
 e 46 39.00
 BFD 32.22 160 eP 40 13.00 1.1
 1.0s 152.00nm 5.7mb
 e 41 02.00
 e 46 37.00

BWA 32.38 149 eP 40 14.80 1.4
 CAN 33.38 150 eP 40 22.10 0.1
 DZM 38.83 116 iPc 41 08.10 -0.2
 CHG 39.46 311 ePc 41 14.00 0.6
 0.9s 36.76nm 5.2mb
 CHTO 39.46 311 iPc 41 14.30 0.9
 0.9s 33.46nm 5.1mb
 pP 41 30.00 62kmX
 sP 41 37.90
 WHN 40.13 340 eP 41 19.80 1.1
 MAT 44.32 10 eP 41 52.00 -0.9
 0.8s 7.46nm 4.5mb
 CD2 45.04 329 eP 41 58.70 0.0
 XAN 45.29 336 P 42 00.00 -0.6
 BJI 48.52 347 eP 42 24.50 -1.2
 Z 32s 0.38um 4.2mszX
 SHL 48.74 313 iP 42 27.10 -0.8
 LZH 49.20 333 eP 42 31.00 -0.3
 1.8s 32.00nm 4.9mb
 Z 25s 0.50um 4.4mszX
 CN2 50.87 357 eP 42 43.00 -0.6
 GTA 53.76 332 eP 43 04.80 -0.6
 0.8s 5.00nm 4.5mb
 GUN 54.48 312 P 43 10.00 -1.2
 PKI 54.64 311 P 43 11.20 -1.1
 KKN 54.86 311 P 43 12.80 -0.9
 DMN 54.89 311 P 43 13.60 -0.4
 GBA 55.38 292 P 43 19.00 1.7
 0.3s 1.40nm 4.4mb
 GKN 55.45 311 P 43 17.20 -0.7
 WMO 63.12 327 eP 44 09.50 -0.8
 MAW 74.47 201 iP 45 20.00 0.3
 MAIO 78.18 309 eP 45 42.00 0.8
 SPA 82.85 180 iPd 46 04.90 -0.5
 1.0s 14.50nm 4.8mb
 CNCB 150.72 145 ePKP 53 30.00 1.4
 i 53 36.00
 LPB 150.87 144 PKP 53 36.30 7.6X
 ZOBO 151.06 144 PKP 53 31.00 1.8
 CCH 151.26 148 ePKP 53 35.00 5.9X
 S.D. = 1.0 on 47 of 53 obs.

* AUG 09, 1990 09h 30m 44.75 ± 1.24s
 7.788 N ± 8.1km 126.553 E ± 14.6km
 DEPTH = 83.2 ± 11.2 km
 4.3mb (4 obs.)

MINDANAO, PHILIPPINE ISLANDS (259)

DAV 1.19 234 eP 31 07.00 0.4
 iS 31 27.10
 CGP 1.96 290 ePc 31 16.00 -0.7
 eS 31 44.00
 PLP 3.70 335 eP 31 41.00 0.3
 eS 32 31.50
 WB5 28.55 164 eP 36 33.80 -1.1
 WRA 28.60 165 P 36 37.00 1.7
 0.4s 0.60nm 3.6mb
 CHG 28.97 295 eP 36 38.80 0.1
 CHTO 28.97 295 eP 36 38.80 0.1
 1.2s 4.51nm 4.0mb
 pP 36 56.20 74kmX
 OIS 30.95 156 eP 36 55.00 -1.2
 WARB 33.77 180 eP 37 21.00 0.3
 SHL 37.45 302 eP 37 52.00 -0.2
 FORR 38.44 178 iPc 38 00.10 0.0
 MBC 88.06 13 eP 43 27.00 0.4
 0.9s 12.00nm 5.0mb
 YKA 95.90 24 eP 44 03.00 -0.2
 0.8s 2.00nm 4.7mb
 S.D. = 0.8 on 13 of 13 obs.

* AUG 09, 1990 09h 52m 32.20 ± 0.72s
 15.016 S ± 47.0km 72.248 W ± 20.9km
 DEPTH = 33.0km (normal)

SOUTHERN PERU (117)

PT06 4.13 286 eP 53 35.00 0.4
 e(S) 54 11.00
 ZOBO 4.16 108 P 53 36.00 0.4
 LPB 4.27 111 P 53 37.00 0.0
 CNCB 4.48 114 P 53 39.60 -0.5
 PT02 4.56 296 e(P) 53 40.10 -0.6
 PT08 5.17 305 iPc 53 49.90 0.2
 iS 54 46.00
 S.D. = 0.6 on 6 of 6 obs.

45.597 N ± 5.8km 1.098 E ± 16.4km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.2 (LDG).

RJF 0.42 135 Pg 02 06.30 -0.3
 Sg 02 11.70
 LSF 0.72 25 Pg 02 11.60 -0.7
 Sg 02 21.30
 LPO 0.92 176 Pg 02 16.00 0.4
 Sg 02 27.80
 CAF 0.96 134 Pg 02 16.00 -0.3
 Sg 02 30.10
 TCF 1.04 48 Pg 02 18.10 0.4
 Sg 02 31.30
 MAF 1.20 58 Pg 02 21.00 0.5
 Sg 02 36.50
 S.D. = 0.6 on 6 of 6 obs.

? AUG 09, 1990 11h 05m 44.86 ± 1.21s
 16.344 N ± 8.0km 120.417 E ± 14.6km
 DEPTH = 10.0km (geophysicist)
 LUZON, PHILIPPINE ISLANDS (249)

BAG 0.17 67 iPc 05 48.80 0.0
 SZP 1.20 2 eP 06 07.00 -0.2
 eS 06 24.00
 OCP 1.81 159 eP 06 20.90 4.6X
 CVP 1.91 45 eP 06 21.00 3.3X
 0.5s 57.00nm
 PIP 1.98 6 iP 06 19.00 0.3
 PGP 2.87 170 eP 06 31.50 0.0
 S.D. = 0.3 on 4 of 6 obs.

* AUG 09, 1990 12h 29m 26.52 ± 0.95s
 32.699 N ± 9.9km 47.484 E ± 17.3km
 DEPTH = 62.4 ± 15.3 km
 4.4mb (2 obs.)

IRAN-IRAQ BORDER REGION (346)

KER 1.68 349 eP 29 54.00 -0.2
 TEH 4.43 46 eP 30 33.00 0.1
 TAB 5.44 350 eP 31 02.00 15.0X
 QASM 7.43 209 eP 31 14.50 -0.2
 UQSK 8.21 214 eP 31 25.70 0.2
 MLR 20.96 314 ePc 34 11.50 5.0X
 HFS 35.29 331 eP 36 17.50 0.5
 0.8s 6.70nm 4.6mb
 MBC 71.00 357 eP 40 38.50 -0.4
 0.7s 2.00nm 4.2mb
 S.D. = 0.5 on 6 of 8 obs.

* AUG 09, 1990 12h 38m 32.88 ± 1.07s
 32.711 N ± 10.0km 47.555 E ± 12.7km
 DEPTH = 54.7 ± 19.8 km
 4.2mb (2 obs.) 3.4msz (1 obs.)

IRAN-IRAQ BORDER REGION (346)

KER 1.68 347 ePd 39 00.00 -0.5
 TEH 4.38 45 e(P) 39 40.00 1.4
 TAB 5.44 350 eP 40 09.00 15.5X
 QASM 7.47 209 eP 40 21.70 -0.1
 UQSK 8.25 215 eP 40 33.00 0.3
 MAIO 10.48 67 eP 41 02.00 -1.2
 eS 49 52.00
 MLR 21.00 314 ePc 43 21.00 7.1X
 BNI 33.78 303 P 45 11.00 -0.6
 HFS 35.31 331 eP 45 20.70 -3.6X
 0.7s 5.90nm 4.6mb
 Z 19s 0.60um 3.4msz
 LR 59 58.00
 NB2 36.84 331 P 45 38.00 0.8
 0.5s 0.60nm 3.8mb
 S.D. = 1.3 on 7 of 10 obs.

* AUG 09, 1990 13h 08m 50.38 ± 1.11s
 6.555 S ± 12.1km 127.476 E ± 21.0km
 DEPTH = 426.6 ± 17.9 km
 4.6mb (9 obs.)

BANDA SEA (280)

MTN 7.21 150 iPc 10 37.80 -0.1
 KNA 9.23 172 iPc 11 00.00 -0.6
 0.4s 50.00nm 5.2mb
 WB5 14.84 154 iPc 12 01.00 -1.2
 eS 14 35.00
 WRA 14.89 154 Pc 12 01.40 -1.2

0.3s 6.40nm 4.6mb
CGP 15.17 349 iPc 12 06.00 0.5
ASPA 18.10 161 eP 12 36.20 1.0
0.4s 14.00nm 4.8mb
eS 15 39.80
QIS 18.22 141 iPd 12 37.40 1.0
e 15 40.00
PPR 18.41 332 eP 12 39.50 1.2
WARB 19.54 182 eP 12 51.00 1.8
STK 28.44 154 iPd 14 10.30 -0.1
CHG 37.77 312 eP 15 30.00 0.4
CHTO 37.77 312 eP 15 30.00 0.4
0.9s 4.05nm 3.8mb
GUN 52.79 312 P 17 25.80 -0.9
0.6s 27.00nm 4.8mb
PKI 52.95 312 P 17 26.80 -1.0
0.5s 12.00nm 4.5mb
KKN 53.16 312 P 17 28.40 -0.8
0.4s 11.00nm 4.5mb
DMN 53.19 312 P 17 29.00 -0.5
0.4s 10.00nm 4.5mb
GBA 53.56 292 Pd 17 32.70 0.7
0.6s 2.60nm 3.7mb
GKN 53.76 312 P 17 32.80 -0.6
S.D. = 1.0 on 18 of 18 obs.

AUG 09, 1990 13h 15m 52.79 ± 0.51s
34.330 N ± 5.5km 119.703 W ± 5.0km
DEPTH = 20.0km (geophysicist)
SOUTHERN CALIFORNIA (43)
ML 3.1 (NEIS). Felt (111) at
Santo Barbara.

BLP 0.62 292 iPd 16 06.20 1.4
ABL 0.65 37 iPd 16 05.00 -0.6
BCH 0.91 340 eP 16 10.40 0.6
SCY 1.06 102 eP 16 11.90 -0.4
S 16 25.85
PVPS 1.21 116 eP 16 15.23 0.7
S 16 30.49
PAS 1.28 98 eP 16 15.46 -0.2
S 16 32.49
CIW 1.29 132 eP 16 15.61 -0.1
S 16 32.47
MWC 1.37 94 eP 16 17.15 0.2
CIS 1.42 130 eP 16 17.26 -0.3
S 16 35.55
PEM 1.53 96 eP 16 19.47 0.3
PHAM 1.61 339 eP 16 20.00 -0.3
PRI 1.97 337 eP 16 25.60 -0.1
PRS 2.42 326 eP 16 31.00 -0.9
LLA 2.50 336 eP 16 33.00 -0.1
PLM 2.56 112 eP 16 33.70 -0.4
FRI 2.66 360 eP 16 35.00 -0.3
SAO 2.81 330 eP 16 36.70 -0.9
GCC 3.28 326 eP 16 43.00 -1.1
CMB 3.74 352 eP 16 51.00 0.3
TNP 4.25 28 eP 16 59.00 0.9
KVN 4.88 15 eP 17 08.40 1.3
S.D. = 0.7 on 21 of 21 obs.

* AUG 09, 1990 13h 44m 39.69 ± 2.30s
2.548 N ± 12.2km 128.359 E ± 18.0km
DEPTH = 41.1 ± 22.3 km
5.1mb (6 obs.) 3.6Msz (1 obs.)
HALMAHERA (267)

CGP 6.91 328 eP 46 23.00 1.9
PPR 11.96 307 eP 47 28.00 -2.6
WB5 23.06 165 eP 49 42.80 0.2
WRA 23.11 166 Pc 49 43.00 -0.1
0.5s 4.00nm 4.1mb
QIS 25.47 155 eP 50 07.00 1.2
ASPA 26.61 169 eP 50 10.50 -5.8X
Z 19s 0.18um 3.6Msz
CHG 33.02 301 eP 51 14.10 0.6
CHTO 33.02 301 eP 51 13.30 -0.2
0.6s 4.91nm 4.5mb
MAT 35.03 14 eP 51 29.00 -1.6
STK 36.47 161 eP 51 41.70 -1.1
BJI 38.92 345 eP 52 03.00 -0.3
1.2s 32.00nm 5.0mb
LZH 40.34 329 Pc 52 16.50 1.2
2.0s 97.00nm 5.2mb
pP 52 31.50 59kmX
GUN 47.73 306 P 53 16.00 0.8
PKI 47.97 305 P 53 17.20 0.1

0.6s 22.00nm 5.4mb
KKN 48.17 306 P 53 18.80 0.3
DMN 48.24 305 P 53 19.60 0.5
0.6s 37.00nm 5.6mb
HYB 51.05 290 eP 53 39.50 -0.9
S.D. = 1.3 on 16 of 17 obs.

% AUG 09, 1990 14h 21m 47.61 ± 0.70s
26.906 S ± 6.7km 26.758 E ± 8.4km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 3.0 (PRE).

BFS 0.02 73 iPd 21 48.00 -0.9
S 21 50.00
PRY 0.64 92 eP 22 07.50 7.1X
S 22 13.50
KSR 1.04 7 eP 22 08.00 0.1
S 22 21.50
BPI 1.35 58 eP 22 13.00 -0.2
S 22 27.00
SEK 1.61 152 eP 22 17.50 0.6
S 22 36.50
SLR 1.80 50 iPd 22 20.10 0.5
S 22 43.20
EVA 2.11 80 iPd 22 52.20 28.0X
S 23 16.20
BLF 2.25 193 eP 22 25.50 -0.7
S 22 56.20
KIM 2.54 223 eP 22 30.50 0.2
S 23 01.00
BFT 3.19 68 eP 22 39.50 -0.1
S 23 10.50
HVD 3.85 196 eP 23 13.00 24.1X
S.D. = 0.6 on 8 of 11 obs.

& AUG 09, 1990 14h 54m 31.84s
60.590 N 152.277 W
DEPTH = 88.4km
SOUTHERN ALASKA (2)
<AGS-P>.

RDT 0.07 256 eP 54 43.61 0.6
eS 54 53.85
RED 0.30 235 iP 54 44.56 -0.8
eS 54 55.54
NKA 0.53 73 iP 54 48.13 1.3
SPU 0.60 10 iP 54 46.82 -0.8
eS 54 59.37
CKL 0.61 357 iP 54 46.97 -0.8
BGL 0.68 355 eP 54 47.75 -0.6
CRP 0.68 5 eP 54 47.98 -0.5
eS 55 00.92
CGLM 0.73 10 iP 54 48.15 -0.7
NNL 0.74 138 eP 54 49.28 0.5
NCG 0.82 4 eP 54 49.33 -0.5
HOM 0.99 161 eP 54 51.08 -0.5
SLKM 1.02 94 iP 54 51.17 -0.8
eS 55 06.87
SUA 1.15 40 iP 54 53.25 -0.4
eS 55 10.56
XLV 1.17 166 eP 54 52.84 -0.9
CNPM 1.19 153 iP 54 53.06 -0.9
eS 55 10.45
PDB 1.25 231 iP 54 53.12 -1.6
eS 55 09.95
SKT 1.44 14 eP 54 56.15 -1.0
PMS 1.48 62 eP 54 57.21 -0.5
eS 55 17.16
SEW 1.49 108 eP 54 56.58 -1.1
PWA 1.58 47 eP 54 59.14 0.2
eS 55 19.93
SVW 1.72 289 iP 54 58.51 -2.3
MCNL 1.75 217 eP 54 59.44 -1.8
eS 55 20.92
CDD 1.80 203 eP 55 00.47 -1.5
PLRM 1.83 55 iP 55 00.63 -1.6
SHU 1.97 181 eP 55 02.75 -1.3
GHO 2.01 52 iP 55 03.30 -1.5
CUT 2.06 27 eP 55 04.69 -0.6
SML 2.27 56 iP 55 06.31 -1.9
SCM 2.70 60 eP 55 12.10 -2.0
VZW 2.84 78 eP 55 13.04 -3.0
VLZ 2.96 77 eP 55 14.89 -2.7
KLU 3.22 71 eP 55 18.57 -2.7
TOA 3.31 60 eP 55 20.93 -1.6
33 obs. associated

* AUG 09, 1990 14h 58m 26.83 ± 1.39s
12.360 S ± 7.4km 76.946 W ± 22.4km
DEPTH = 33.0km (normal)
NEAR COAST OF PERU (115)
Felt (111) at Lima.

PT10 0.28 356 iP 58 34.40 0.0
i(S) 58 59.60
NNA 0.38 15 iPc 58 35.70 -0.1
eS 58 53.50
PT08 0.56 44 iP 58 38.70 0.1
PT02 0.76 139 iP 58 41.00 -0.2
PT06 1.58 158 iPc 58 53.00 0.1
ZOBO 9.39 115 eP 00 46.00 2.5X
S.D. = 0.2 on 5 of 6 obs.

AUG 09, 1990 15h 04m 21.00 ± 0.56s
43.414 N ± 3.7km 5.446 E ± 4.2km
DEPTH = 5.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
MD 2.5 (STR).

GELF 0.03 204 Pg 04 22.09 -0.2
BERF 0.21 119 Pg 04 25.66 0.4
TREF 0.21 348 Pg 04 25.15 -0.2
PUYF 0.22 57 Pg 04 25.02 -0.5
CDR 0.35 42 ePgD 04 27.30 -0.8
eSg 04 32.80
PRAF 0.44 333 Pg 04 30.30 0.5
VILF 0.48 24 Pg 04 30.30 -0.3
TAVF 0.49 65 Pg 04 30.54 -0.3
GANF 0.67 30 Pg 04 34.67 0.2
CALN 1.10 72 Pg 04 42.94 0.7
MVIF 1.33 68 Pn 04 46.43 0.3
Sg 05 05.82
REVF 1.43 76 Pn 04 48.05 0.3
Sg 05 10.02
TOUF 1.44 65 Pn 04 48.25 0.3
Sg 05 08.95
AURF 1.45 70 Pn 04 48.61 0.7
AUTN 1.55 67 Pn 04 49.94 0.4
SAOF 1.63 69 Pn 04 50.33 -0.2
PGF 2.75 107 Pn 05 05.39 -1.3
S.D. = 0.6 on 17 of 17 obs.

? AUG 09, 1990 15h 10m 48.91 ± 2.93s
30.134 S ± 23.1km 179.573 W ± 23.2km
DEPTH = 384.3 ± 27.2 km
4.5mb (2 obs.)
KERMADEC ISLANDS REGION (177)

PUZ 8.12 192 eP 12 46.60 0.8
eS 14 22.50
NOZ 8.69 192 eP 12 55.30 2.9X
PGZ 10.99 197 P 13 21.00 1.5
eS 15 26.20
MNG 11.21 200 eP 13 19.30 -2.8X
KIW 11.61 201 eP 13 26.70 -0.1
MTW 11.70 199 eP 13 27.50 -0.5
CAW 11.78 200 eP 13 26.40 -2.5
MRW 12.01 201 eP 13 32.00 0.5
S 15 48.00
TCW 12.13 203 P 13 33.00 0.0
DZM 14.90 299 iPd 14 03.30 0.0
MSZ 17.56 211 P 13 58.30 -32.1X
STK 33.22 257 eP 16 55.00 1.9
ASPA 41.77 267 iPc 18 04.00 0.0
0.5s 18.00nm 4.6mb
WRA 42.72 273 Pd 18 11.40 -0.2
0.5s 8.50nm 4.3mb
WB5 42.73 273 eP 18 11.00 -0.7
MBL 54.81 264 iPc 19 42.20 -0.8
NUR 145.59 339 ePKP 29 53.00 10.4X
NB2 148.27 350 PKP 29 47.40 0.4
0.7s 3.00nm
HFS 148.70 347 ePKP 29 47.20 -0.4
0.8s 6.20nm
S.D. = 1.2 on 15 of 19 obs.

% AUG 09, 1990 15h 16m 20.72 ± 0.54s
44.009 N ± 7.0km 11.296 E ± 4.5km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

PGD 0.33 113 Pc 16 28.00 0.3
eSg 16 33.50

09d 15h

SFI 0.41 102 P 16 29.00 -0.1
 eSg 16 35.50
 BDI 0.51 276 Pd 16 31.00 0.0
 eSg 16 39.00
 CRE 0.61 128 P 16 33.00 -0.1
 eSg 16 43.50
 PII 0.63 243 P 16 33.00 -0.3
 eSg 16 42.00
 ASS 1.37 133 P 16 46.00 0.2
 MDI 2.10 328 P 16 57.00 0.7
 VOY 2.74 41 ePn 16 55.70 -9.9X
 eSn 17 41.40
 FVI 2.79 22 P 17 05.50 -0.7
 S.D. = 0.5 on 8 of 9 obs.

% AUG 09, 1990 15h 27m 39.09±1.42s
 26.339 S ±11.8km 27.358 E ±12.9km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 2.1 (PRE).

PRY 0.60 170 eP 27 50.00 -1.0
 S 27 56.50
 BPI 0.62 75 eP 27 51.40 -0.2
 BFS 0.76 223 eP 27 54.00 -0.4
 S 28 03.00
 SLR 1.03 54 eP 27 58.00 -0.2
 S 28 11.20
 EVA 1.55 97 eP 28 39.00 31.4X
 S 28 57.00
 SEK 1.99 173 eP 28 15.50 1.6
 S 28 41.00
 BFT 2.50 76 eP 28 21.60 0.3
 S.D. = 1.1 on 6 of 7 obs.

& AUG 09, 1990 15h 44m 18.92s
 60.178 N 153.192 W
 DEPTH = 142.9km
 SOUTHERN ALASKA (2)
 <AGS-P>.

RED 0.32 41 iP 44 38.15 0.7
 RDT 0.56 44 iP 44 39.29 -0.8
 PDB 0.64 233 iP 44 39.23 -1.3
 eS 44 55.41
 AUE 0.83 186 eP 44 40.88 -0.9
 AUI 0.85 188 eP 44 41.14 -0.9
 HOM 0.94 123 eP 44 42.40 -0.3
 >NNL 0.96 97 iP 44 43.20 0.3
 XLV 1.04 134 eP 44 42.80 -0.8
 CKL 1.11 22 iP 44 43.63 -0.8
 NKA 1.12 59 eP 44 45.04 0.7
 SPU 1.15 29 iP 44 43.75 -1.0
 eS 45 04.40
 BGL 1.16 20 iP 44 44.30 -0.6
 CNPM 1.18 123 iP 44 44.48 -0.6
 eS 45 03.71
 CRP 1.21 25 eP 44 44.77 -0.6
 CDD 1.27 191 iP 44 44.44 -1.5
 CGLM 1.27 27 iP 44 45.00 -1.0
 NCG 1.33 22 eP 44 45.84 -0.8
 SKLM 1.51 76 eP 44 47.29 -1.2
 SVW 1.52 309 eP 44 46.42 -2.1
 SHU 1.61 164 eP 44 48.02 -1.5
 eS 45 11.40
 SUA 1.76 42 eP 44 49.92 -1.4
 eS 45 15.08
 SEW 1.87 91 eP 44 51.44 -1.0
 SKT 1.98 23 eP 44 52.39 -1.4
 PMS 2.08 57 eP 44 53.33 -1.7
 PWA 2.19 46 eP 44 54.42 -1.9
 PLRM 2.44 53 eP 44 56.70 -2.7
 GHO 2.62 51 iP 44 59.19 -2.6
 CUT 2.64 31 eP 45 00.43 -1.5
 SML 2.88 53 iP 45 02.24 -2.8
 SCM 3.30 57 eP 45 07.99 -2.6
 VZW 3.39 72 eP 45 09.39 -2.3
 VLZ 3.51 71 eP 45 11.95 -1.2
 KLU 3.80 67 eP 45 14.22 -2.9
 TOA 3.91 57 eP 45 16.16 -2.5

34 obs. associated

% AUG 09, 1990 15h 57m 18.35±1.61s
 17.377 N ±16.0km 94.688 W ±10.1km
 DEPTH = 129.5 ± 24.0 km
 CHIAPAS, MEXICO (61)

PSM 0.75 207 iP 57 39.50 0.1
 iS 57 54.50
 EVV 1.24 330 eP 57 43.75 -0.2
 iS 58 01.50
 OXX 1.97 262 iP 57 52.50 -0.1
 SCX 2.06 108 eP 57 53.50 0.0
 iS 58 20.50
 PPM 4.10 295 eP 58 21.50 0.7
 III 4.66 283 eP 58 27.50 -0.5
 S.D. = 0.6 on 6 of 6 obs.

* AUG 09, 1990 17h 04m 09.13±1.23s
 16.188 N ± 7.8km 120.534 E ±26.8km
 DEPTH = 10.0km (geophysicist)
 LUZON, PHILIPPINE ISLANDS (249)

BAG 0.23 11 iPd 04 13.00 -1.1
 SZP 1.36 357 eP 04 34.00 -0.1
 eS 04 51.00
 QCP 1.63 161 eP 05 05.00 27.1X
 CVP 1.95 39 eP 04 43.00 0.5
 0.5s 50.00nm
 PIP 2.13 2 iP 04 46.00 0.8
 PGP 2.70 171 eP 04 53.20 -0.2
 S.D. = 1.0 on 5 of 6 obs.

? AUG 09, 1990 17h 16m 29.52±1.61s
 16.245 N ±10.1km 120.367 E ±20.8km
 DEPTH = 10.0km (geophysicist)
 LUZON, PHILIPPINE ISLANDS (249)

BAG 0.26 51 iPd 16 34.50 -0.6
 SZP 1.30 4 ePd 16 55.00 1.4
 eS 17 15.00
 QCP 1.74 157 eP 17 35.90 36.0X
 CVP 2.01 44 eP 17 05.00 1.1
 0.5s 43.00nm
 PIP 2.08 7 iPd 17 03.00 -1.9
 PGP 2.78 168 eP 17 15.00 0.0
 S.D. = 1.9 on 5 of 6 obs.

* AUG 09, 1990 17h 26m 33.00±1.30s
 16.323 N ± 8.5km 120.551 E ±26.1km
 DEPTH = 10.0km (geophysicist)
 LUZON, PHILIPPINE ISLANDS (249)

BAG 0.09 17 iPd 26 34.80 -1.0
 SZP 1.23 356 iPd 26 55.00 -0.8
 eS 27 15.00
 QCP 1.75 163 eP 27 35.50 31.9X
 CVP 1.83 41 eP 27 05.00 0.2
 eS 27 48.50
 PIP 1.99 2 iPd 27 08.50 1.4
 PGP 2.83 172 eP 27 19.00 -0.1
 S.D. = 1.3 on 5 of 6 obs.

% AUG 09, 1990 17h 50m 01.39±1.93s
 45.801 N ±10.9km 26.715 E ± 9.9km
 DEPTH = 98.1 ± 22.2 km
 ROMANIA (358)

VRI 0.07 6 iPd 50 14.50 -0.1
 BRD 0.37 140 iPd 50 17.00 0.7
 MLR 0.62 241 iPd 50 17.50 -0.9
 CFR 1.18 121 iPd 50 24.00 0.0
 CMP 1.29 246 ePd 50 26.00 0.6
 IAS 1.51 22 iPd 50 28.00 0.0
 TLB 1.53 142 iPd 50 28.00 -0.3
 S.D. = 0.7 on 7 of 7 obs.

AUG 09, 1990 17h 50m 45.50±0.87s
 37.003 N ± 9.1km 29.495 E ± 6.3km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

ELL 0.42 127 iPd 50 53.70 -0.4
 iSg 51 03.70
 KSL 0.89 175 ePn 51 03.00 0.5
 eSn 51 21.60
 YER 0.98 278 ePn 51 04.20 0.1
 BCK 0.99 62 iPd 51 04.40 0.2
 ARG 1.35 235 ePn 51 10.00 -0.4
 eSn 51 32.40
 S.D. = 0.5 on 5 of 5 obs.

? AUG 09, 1990 17h 53m 45.09±1.41s
 14.978 S ±26.6km 179.065 W ±21.0km

DEPTH = 434.3 ± 10.0 km
 4.3mb (3 obs.)
 FIJI ISLANDS REGION (181)

MBU 2.91 227 eP 54 50.60 -0.2
 VUN 3.83 218 ePd 54 58.40 0.0
 SGE 3.89 228 ePd 54 59.10 0.1
 SVA 3.92 217 eP 54 59.40 0.2
 NDF 4.34 230 eP 55 07.30 4.3X
 WRA 44.61 257 Pc 01 19.00 0.2
 0.7s 1.80nm 3.6mb

ASPA 45.05 251 iPd 01 22.00 -0.2
 0.7s 27.00nm 4.8mb
 SPA 75.12 180 eP 04 42.50 -0.1
 1.0s 10.00nm 4.4mb

PRU 143.37 345 ePKP 12 30.00 -0.2
 SRO 144.23 340 ePKP 12 32.00 0.3
 GRF 144.38 349 ePKP 12 34.20 2.2X
 KHC 144.40 346 ePKP 12 34.20 2.1X
 CDF 146.25 352 ePKP 12 39.00 3.8X
 0.8s 5.35nm

LOR 147.71 356 ePKP 12 42.70 5.2X
 1.0s 5.00nm
 SSF 147.94 357 ePKP 12 43.60 5.7X
 1.0s 6.00nm

LBF 147.99 356 ePKP 12 43.50 5.5X
 0.8s 3.35nm
 AVF 148.22 357 ePKP 12 43.80 5.5X
 0.8s 2.70nm

BGF 148.48 357 ePKP 12 44.00 5.3X
 0.6s 3.15nm
 TCF 148.77 358 ePKP 12 45.30 6.1X
 1.0s 4.00nm

LSF 148.82 359 ePKP 12 45.20 5.9X
 MAF 148.82 358 ePKP 12 45.80 6.5X
 0.8s 2.70nm
 LPL 149.17 352 ePKP 12 47.60 7.5X
 0.8s 2.70nm

LPG 149.18 352 ePKP 12 47.50 7.3X
 0.8s 2.70nm
 S.D. = 0.3 on 9 of 23 obs.

% AUG 09, 1990 18h 12m 47.16±0.65s
 31.689 S ± 6.3km 117.047 E ± 6.3km
 DEPTH = 10.0km (geophysicist)
 WESTERN AUSTRALIA (590)

KLB 0.62 81 iPd 12 59.70 0.1
 iS 13 08.00
 MUN 0.77 248 iPd 13 02.00 -0.2
 BAL 1.12 345 iPd 13 08.40 0.3
 iS 13 21.10

NWAO 1.24 173 eP 13 10.50 0.2
 eS 13 27.50
 RKG 2.37 181 eP 13 34.50 7.7X
 eS 14 14.00

MRWA 2.62 339 eP 13 30.20 -0.1
 iS 14 04.50
 COOL 3.60 78 eP 13 43.80 -0.4
 eS 14 23.00

WARB 10.03 59 eP 15 10.00 -4.4X
 eS 16 54.00
 S.D. = 0.3 on 6 of 8 obs.

? AUG 09, 1990 18h 23m 20.29±2.42s
 19.412 N ±25.8km 109.216 W ±16.1km
 DEPTH = 10.0km (geophysicist)
 4.0mb (5 obs.)

REVILLA GIGEDO ISLANDS REGION (53)

GLA 14.48 341 eP 26 47.00 -0.3
 BAR 14.81 335 eP 26 51.00 -0.5
 PLM 15.47 335 eP 27 03.00 2.6
 ALO 15.66 8 eP 27 03.80 0.9
 1.3s 14.42nm 4.1mb

ANMO 15.67 8 P 27 04.00 1.1
 1.2s 11.72nm 4.0mb
 TPC 15.85 339 eP 27 05.00 -0.1
 RVR 16.24 335 eP 27 15.00 4.9X

PAS 16.70 333 eP 27 14.00 -1.9
 MWC 16.72 334 eP 27 15.00 -1.3
 SBB 17.03 335 eP 27 20.00 -0.1
 CLC 17.94 337 eP 27 33.00 1.5

MSU 19.21 353 P 27 47.00 -0.3
 PRI 19.48 331 eP 27 50.20 -0.2
 FRI 19.78 334 eP 27 53.00 -0.5
 TNP 19.86 341 P 27 52.50 -2.2

09d 18h

1.0s 7.92nm 4 0mb
 PRS 19.96 330 eP 27 56.50 1 0
 GOL 20.49 8 P 28 00.00 -1.3
 GCC 20.82 330 eP 28 04.50 0.1
 MHC 20.91 331 eP 28 06.00 0.5
 DUG 20.94 352 P 28 06.00 0.1
 CMB 20.95 335 eP 28 05.50 -0.3
 DAU 21.00 356 P 28 06.50 -0.2
 KVN 21.03 340 P 28 07.00 0.2
 BRK 21.62 331 eP 28 12.30 -0.3
 ORV 22.70 335 eP 28 26.00 2.7
 IMW 24.46 357 P 28 40.00 -0.7
 LRM 26.47 355 eP 28 58.60 -1.1
 YKA 43.21 356 eP 31 23.20 0.3
 0.8s 2.20nm 4 0mb
 INK 51.21 349 ePd 32 25.40 -0.2
 MBC 57.10 357 ePc 33 09.50 0.7
 0.7s 10.00nm 5 0mb
 pP 33 15.50 20kmX

S.D. = 1.2 on 29 of 30 obs.

AUG 09, 1990 18h 26m 44.18 ± 1.58s
 36.679 N ± 14.8km 2.455 E ± 6.1km
 DEPTH = 10.0km (geophysicist)
 ALGERIA (396)
 mBLg 3.7 (MDD).

ACU 2.92 310 ePn 27 31.60 0.0
 ESEL 3.10 6 iPnc 27 34.00 -0.1
 ENIJ 3.76 276 ePn 27 45.20 1.7
 ECHE 3.97 318 ePn 27 46.00 0.4
 EVIA 4.39 298 ePn 27 52.00 -0.6
 EROO 4.44 339 iPnc 27 52.40 -0.6
 EBAN 5.18 288 ePn 28 02.20 -1.5
 ETOR 5.43 321 ePn 28 08.00 0.7
 ETER 5.62 3 ePn 28 10.00 0.2
 GUD 6.51 309 ePn 28 21.60 -0.9
 EPF 6.55 346 Pn 28 23.50 0.6
 LMR 7.34 24 Pn 28 33.70 -0.2
 LRG 7.40 23 Pn 28 35.00 0.2
 FRF 7.59 24 Pn 28 37.40 0.0
 PGF 7.74 39 Pn 28 39.20 -0.4
 SBF 8.12 26 Pn 28 44.80 -0.2
 CAF 8.24 358 Pn 28 46.90 0.3
 STV 8.42 25 P 28 48.85 -0.3
 ENR 8.43 25 P 28 48.83 -0.5
 PZZ 8.58 23 P 28 51.72 0.3
 RJF 8.65 356 Pn 28 52.20 0.0
 ROB 8.65 27 P 28 53.06 0.7
 FIN 8.70 28 P 28 52.75 -0.3
 PCP 9.11 29 P 28 56.95 -1.8
 LPG 9.39 19 Pn 29 04.20 1.5
 LPL 9.40 19 Pn 29 04.60 1.8
 LSD 9.46 21 P 29 04.44 0.8
 MAF 9.53 0 Pn 29 04.10 -0.4
 TCF 9.60 359 Pn 29 05.20 -0.2
 BSF 11.60 15 Pn 29 32.00 -0.8
 CDF 12.25 15 Pn 29 40.80 -0.8
 S.D. = 0.8 on 31 of 31 obs.

& AUG 09, 1990 19h 09m 41.01s
 57.649 N 155.046 W
 DEPTH = 28.7km
 ALASKA PENINSULA (12)
 <AGS-P>.

CDD 1.48 29 eP 10 04.78 -1.2
 MCNL 1.59 13 iP 10 06.19 -1.3
 SHU 1.74 54 eP 10 07.07 -2.5
 eS 10 28.05

AUI 1.89 26 eP 10 10 56 -1 3
 AUE 1.93 26 eP 10 11.52 -0.9
 PDB 2.19 11 iP 10 14.37 -1.8
 HOM 2.69 40 eP 10 21.56 -1.7
 CNPM 2.74 45 eP 10 22.65 -1.4
 RED 3.02 22 eP 10 26.23 -1.8
 NNL 3.09 37 eP 10 28.53 -0.5
 RDT 3.23 24 eP 10 29.30 -1.8
 SLKM 3.80 39 eP 10 36.80 -2.2
 CKL 3.82 20 eP 10 37.79 -1.6
 BGL 3.87 19 eP 10 39.11 -1.0
 CGLM 3.98 22 eP 10 40.05 -1.7
 NCG 4.04 20 eP 10 41.02 -1.6
 SUA 4.41 28 eP 10 45.67 -2.1
 PMS 4.56 36 eP 10 47.03 -2.9
 SKT 4.69 21 eP 10 48.78 -2.9
 PWA 4.79 31 eP 10 50.68 -2.4
 GHO 5.17 34 eP 10 55.10 -3.4

21 obs. associated

AUG 09, 1990 19h 16m 57.05 ± 0.22s
 43.996 N ± 2.0km 7.433 E ± 2.0km
 DEPTH = 10.0km (geophysicist)
 NEAR SOUTH COAST OF FRANCE (379)
 ML 3.4 (GEN), 3.2 (LDG), MD 3.1 (STR).

AUTN 0.00 264 Pg 16 58.15 -1.0
 SAOF 0.09 96 Pg 16 59.75 0.1
 AURF 0.13 215 Pg 17 00.18 -0.1
 SBF 0.13 179 Pg 17 00.40 0.1
 TOUF 0.13 278 Pg 16 59.53 -0.9
 MVIF 0.23 244 Pg 17 01.94 -0.1
 ENR 0.23 358 Pc 17 01.72 -0.3
 REVF 0.26 190 Pg 17 03.20 0.6
 STV 0.26 343 Pc 17 02.04 -0.6
 IMI 0.34 104 P 17 04.64 0.5
 ROB 0.43 46 Pc 17 06.16 0.2
 CALN 0.46 238 Pg 17 06.32 -0.2
 DOI 0.53 345 Pd 17 06.80 -0.9
 PZZ 0.56 335 Pc 17 07.47 -1.1
 FIN 0.60 69 Pc 17 09.01 -0.2
 FRF 0.72 233 Pg 17 10.90 -0.3
 LMR 0.94 226 Pg 17 15.00 0.0
 LRG 0.95 236 Pg 17 15.10 0.0
 PCP 0.97 55 Pc 17 15.53 0.0
 RRL 1.03 334 P 17 16.19 -0.6
 TAVF 1.06 250 Pn 17 17.41 0.3
 GANF 1.10 271 Pn 17 18.49 0.8
 BNI 1.19 333 P 17 18.90 -0.4
 CDR 1.25 256 iPg 17 20.50 0.3
 VILF 1.25 264 Pg 17 21.48 1.2
 PUYF 1.34 250 Pn 17 21.99 0.3
 BERF 1.44 242 Pn 17 23.43 0.2
 LSD 1.47 352 P 17 22.96 -0.9
 TREF 1.53 257 Pn 17 24.91 0.5
 GELF 1.58 248 Pn 17 25.47 0.3
 LPG 1.58 342 Pn 17 25.40 0.0

Pg 17 30.60
 Pn 17 25.00 -0.7
 Pg 17 30.10
 Pn 17 26.62 0.4
 Sg 17 51.40
 P 17 26.00 -0.6
 P 17 24.88 -1.9
 Pn 17 27.40 -1.7
 Sn 17 50.10
 ePc 17 33.30 0.6
 ePc 17 34.60 1.8
 P 17 35.50 0.1
 ePd 17 36.40 0.0
 eP 17 35.50 -1.2
 P 17 36.00 -1.1
 ePc 17 44.90 0.9
 ePd 17 48.70 1.9X
 ePd 17 51.80 1.8
 ePc 17 55.80 2.7X
 ePd 17 54.60 1.2
 Pn 17 56.20 1.2
 Sn 18 39.00
 eP 18 02.20 4.7X
 Pn 17 58.00 0.3
 Sn 18 43.40
 Pn 17 58.60 0.7
 Sn 18 44.00
 Pn 17 58.80 -0.3
 Sn 18 45.00
 Pn 17 59.80 0.0
 Sn 18 47.20
 Pn 18 01.50 0.7
 Sn 18 48.40
 Pn 18 02.00 0.9
 Pn 18 01.80 0.4
 Pg 18 15.80
 Sn 18 53.40
 Pn 18 01.60 0.2
 Pg 18 15.30
 Sn 18 49.40
 Pn 18 01.30 -0.2
 iPnc 18 05.00 2.7X
 iSn 18 55.90
 Pn 18 04.70 0.0
 Sn 18 55.70
 Pn 18 07.20 1.5
 Sn 18 56.20
 Pn 18 05.60 -0.1
 Pn 18 07.10 -0.2
 Pn 18 10.00 -0.4
 Sn 19 00.30
 eP 19 07.50 56.2X
 e(Pn) 18 10.20 -4.0X
 eSn 19 12.00
 eSg 19 35.50
 Pn 18 15.80 -1.7
 Sn 19 14.40
 Pn 18 41.10 -0.5
 Pn 18 44.20 0.1
 e(P) 19 23.00 37.7X
 e 20 10.00
 Pn 18 44.80 -0.8
 S.D. = 0.8 on 64 of 71 obs.

* AUG 09, 1990 19h 45m 59.82 ± 0.67s
 37.101 N ± 16.9km 33.042 W ± 6.3km
 DEPTH = 10.0km (geophysicist)
 4.4mb (13 obs.)

AZORES ISLANDS REGION (404)

IFR 23.02 91 iPd 51 07.00 0.8
 EPF 26.11 66 eP 51 35.20 -0.3
 0.9s 5.75nm 4.3mb
 LFF 26.52 62 eP 51 37.30 -1.8
 1.0s 6.00nm 4.2mb
 LPO 26.81 63 eP 51 41.10 -0.8
 LSF 27.21 59 eP 51 44.80 -0.7
 0.8s 4.05nm 4.2mb
 CAF 27.45 62 eP 51 46.80 -1.0
 1.0s 6.00nm 4.3mb
 TCF 27.68 59 eP 51 49.40 -0.4
 0.8s 5.35nm 4.4mb
 LPL 30.78 62 eP 52 20.90 3.1X
 0.8s 2.00nm 4.0mb
 LPG 30.79 62 eP 52 20.30 2.3
 1.2s 11.90nm 4.6mb
 NB2 36.54 35 P 53 08.20 1.0

GUN 17.46 130 P 20 11.40 -8.0X
 SUF 34.73 325 iP 23 05.00 -0.2
 0.5s 5.00nm 4.7mb
 NUR 34.78 321 iP 23 05.00 -0.6
 0.6s 14.30nm 5.1mb
 PRU 40.06 303 P 23 39.00
 HFS 40.11 319 eP 23 50.50 0.5
 0.5s 33.00nm 5.3mb
 Z 17s 0.07um 3.6MszX
 BRG 40.31 305 iP 39 12.00
 0.8s 11.00nm 4.7mb
 KHC 40.81 302 P 23 57.50 1.2
 CLL 40.84 306 iP 23 56.60 0.2
 0.7s 9.00nm 4.6mb
 NB2 41.37 321 P 24 00.20 -0.5
 0.7s 13.40nm 4.8mb
 GRF 42.22 303 eP 24 09.40 1.6
 0.9s 11.00nm 4.6mb
 CDF 45.04 302 eP 24 30.70 0.0
 0.6s 1.80nm 4.1mb
 BSF 45.50 302 eP 24 34.30 -0.1
 0.6s 2.70nm 4.3mb
 HAU 45.74 302 eP 24 36.20 0.0
 0.7s 4.40nm 4.5mb
 LPG 46.18 299 eP 24 40.60 0.6
 0.6s 3.15nm 4.4mb
 LPL 46.19 299 eP 24 40.50 0.5
 0.6s 3.60nm 4.5mb
 SBF 46.22 296 eP 24 40.60 0.5
 0.7s 11.00nm 4.9mb
 FRF 46.86 296 eP 24 45.30 0.2
 0.9s 9.85nm 4.8mb
 LOR 47.56 302 eP 24 49.90 -0.7
 0.7s 1.65nm 4.2mb
 LBF 47.57 301 eP 24 50.10 -0.6
 0.7s 2.75nm 4.4mb
 SMF 47.76 301 eP 24 51.80 -0.4
 0.6s 3.15nm 4.5mb
 SSF 47.85 302 eP 24 52.30 -0.6
 0.8s 2.70nm 4.3mb
 AVF 48.04 301 eP 24 53.70 -0.6
 0.7s 4.95nm 4.6mb
 BGF 48.44 301 eP 24 57.20 -0.2
 0.6s 3.15nm 4.5mb
 MAF 48.73 301 eP 25 00.00 0.3
 0.6s 5.40nm 4.8mb
 TCF 48.95 301 eP 25 01.40 0.1
 0.8s 4.05nm 4.5mb
 CAF 49.50 299 eP 25 06.20 0.6
 1.0s 6.00nm 4.6mb
 EKA 49.57 314 Pd 25 05.60 -0.4
 0.6s 6.20nm 4.8mb
 LDF 49.70 305 eP 25 06.60 -0.5
 0.8s 8.05nm 4.8mb
 GRR 50.23 305 eP 25 10.40 -0.7
 0.8s 5.35nm 4.6mb
 LFF 50.38 300 eP 25 12.80 0.5
 1.0s 10.00nm 4.8mb
 MBC 63.59 3 ePc 26 45.50 -0.1
 0.7s 13.00nm 5.1mb
 INK 70.21 9 eP 27 28.00 0.5
 YKA 77.50 3 eP 28 09.60 -0.2
 0.5s 2.50nm 4.5mb
 WB5 84.03 122 eP 28 49.90 4.0X
 WRA 84.06 122 Pc 28 50.40 5.2X
 0.4s 1.50nm 4.5mb
 FFC 85.19 356 eP 28 51.00 0.6
 0.8s 12.00nm 5.2mb

S.D. = 0.7 on 38 of 42 obs.

AUG 10, 1990 01h 51m 19.44 ± 0.18s
 0.076 S ± 2.7km 122.954 E ± 3.9km
 DEPTH = 172.1 ± 1.6 km
 5.4mb (47 obs.)

MINAHASSA PENINSULA (265)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 31C
 Centroid Location:
 Origin Time 01:51:20.7 0.5
 Lat 0.31N 0.04 Lon 122.91E 0.04
 Dep 135.9 1.3 Half-duration 2.2
 Moment Tensor: Scale 10¹⁷ Nm
 Mrr = 1.97 0.08 Mtt = -2.12 0.10
 Mff = 0.15 0.12 Mrt = -0.52 0.08

Mrr = 0.07 0.09 Mff = 0.01 0.10
 Principal Axes:
 T Val = 2.04 Plg = 83 Azm = 197
 N 0.15 2 91
 P -2.18 7 1
 Best Double Couple: Mo = 2.1 × 10¹⁷
 NP1: Strike = 88 Dip = 38 Slip = 87
 NP2: 272 52 93
 TSM 6.48 311 ePc 52 53.20 -0.4
 0.3s 1047.20nm 6.6mb X
 DAV 7.58 20 ePd- 53 08.00 -0.2
 1.7s *****nm 7.3mb X
 CGP 8.65 12 iPd 53 22.00 -0.3
 1.5s 1338.00nm 6.2mb
 KKM 9.07 312 ePd 53 27.00 -0.9
 1.2s 359.30nm 5.7mb
 KUG 10.04 176 ePc 53 57.00 16.4X
 1.0s 305.10nm
 PPR 10.65 337 ePd 53 47.00 -1.6
 1.0s 980.00nm 6.3mb
 PLP 11.35 10 ePc 53 59.00 1.3
 2.0s 110.00nm 5.0mb
 PGP 13.63 352 ePc 54 28.20 1.2
 QCP 14.74 353 eP+ 54 37.00 -3.8X
 BAG 16.55 352 eP 54 57.40 -6.0X
 KNA 16.60 160 eP 55 01.00 -2.0
 0.7s 209.00nm 5.6mb
 SZP 17.69 352 iPd 55 18.00 1.4
 CVP 17.70 356 eP 55 16.00 -0.8
 1.5s 2276.00nm 6.3mb
 PIP 18.43 353 ePc 55 22.50 -2.0
 KGM 19.74 276 eP 55 38.00 0.0
 MBL 21.18 188 iPd 55 51.00 -0.6
 0.4s 23.00nm 5.0mb
 IPM 22.39 282 ePc 56 06.40 2.1
 0.8s 192.30nm 5.6mb
 WB5 22.64 151 iPd 56 06.00 -0.6
 eS 00 00.30
 QIZ 22.94 327 P 56 12.00 2.5
 N 11s 1.40um
 SNG 23.42 288 eP 56 15.60 1.4
 0.7s 143.84nm 5.6mb
 NANU 23.49 197 eP 56 14.70 -0.2
 0.3s 27.00nm 5.3mb
 GZH 24.85 339 P 56 26.20 -1.4
 S 00 40.00
 QZH 25.23 351 eP 56 33.00 1.9
 Z 20s 1.20um 4.4Msz
 N 12s 0.50um
 GUMO 25.60 57 eP 56 34.00 -0.6
 Z 22s 0.75um 4.2Msz
 GUA 25.62 57 eP 56 34.00 -0.6
 0.4s 81.36nm 5.7mb
 ASPA 25.75 156 iPd 56 35.40 -0.6
 0.7s 60.00nm 5.4mb
 Z 21s 1.33um 4.4Msz
 IPP 57 04.70
 eS 00 48.50
 iScP 03 28.10
 LR 06 45.80
 iScS 07 13.00
 PMG 25.81 112 eP 56 36.00 -0.6
 OIS 26.07 142 iPc 56 38.50 -0.4
 0.6s 134.00nm 5.8mb
 NNT 26.25 299 iPd 56 41.00 0.5
 MEKA 26.73 189 eP 56 43.50 -1.3
 NST 27.43 306 iPc 56 52.00 0.7
 BDT 29.20 307 eP 57 07.00 0.0
 0.5s 143.40nm 6.0mb
 MRWA 29.73 192 iPd 57 10.90 -0.7
 0.4s 17.00nm 5.1mb
 CHG 30.13 310 iPc 57 16.00 0.7
 1.0s 180.00nm 5.8mb

CHTO 30.13 310 eS 02 08.00
 iPc 57 16.10 0.8
 PCP 00 13.60
 CTA 30.27 132 iPc 57 15.90 -0.6
 1.7s 307.69nm 5.8mb
 COOL 30.69 183 eP 57 20.00 0.0
 GYA 30.70 330 P 57 21.00 0.7
 N 13s 1.40um
 E 13s 1.60um
 PCP 00 14.40
 S 02 15.00
 ScP 03 42.40
 ScS 07 38.20
 BAL 30.94 191 eP 57 21.00 -1.2
 FORR 30.99 171 iPc 57 15.90 -6.7X
 SSE 31.05 357 P 57 24.00 0.9
 2.0s 120.00nm 5.3mb
 Z 20s 0.90um 4.4Msz
 N 14s 0.40um
 E 14s 0.60um
 WHN 31.53 346 eP 02 12.00
 S 57 29.00 1.7
 S 02 26.00
 KLB 31.73 188 eP 57 28.00 -1.1
 KMI 31.78 324 Pc 57 30.50 0.6
 2.0s 180.00nm 5.5mb
 S 02 31.00
 NJ2 32.19 353 Pd 57 34.50 1.5
 E 10s 0.50um
 MUN 32.37 191 eP 57 33.00 -1.6
 NWA0 33.12 189 eP 57 41.00 -0.1
 QLP 33.38 144 iPd 57 43.80 0.3
 TKSJ 35.44 16 eP 58 00.40 -0.5
 CD2 35.80 331 eP 58 04.60 0.6
 0.9s 100.00nm 5.5mb
 PP 59 30.20
 WKYJ 36.12 18 eP 58 05.50 -1.1
 RMO 36.15 139 eP 58 06.00 -1.0
 e 00 31.00
 STK 36.22 153 iPc 58 07.60 0.2
 1.4s 82.00nm 5.2mb
 XAN 36.40 340 P 58 09.00 0.0
 N 12s 1.03um
 E 12s 1.04um
 PP 59 31.50
 S 03 35.00
 YONJ 36.43 15 eP 58 08.40 -0.8
 TIA 36.51 352 eP 58 10.00 0.2
 ADE 37.70 159 iPd 58 20.50 0.5
 0.8s 59.70nm 5.3mb
 TIY 38.84 347 eP 58 30.00 0.6
 Z 20s 1.80um 4.9Msz
 N 11s 0.60um
 S 04 10.50
 MAT 39.09 20 iPd 58 30.00 -1.4
 0.7s 59.59nm 5.4mb
 (S) 04 22.00
 LZH 40.13 336 Pd 58 42.50 2.4
 2.0s 300.00nm 5.6mb
 PP 59 20.00
 SP 59 40.50
 COO 40.94 140 eP 58 48.00 1.3
 BFD 41.12 156 iPc 58 50.80 2.7
 YAMJ 41.19 21 P 58 48.80 0.2
 BWA 41.66 148 eP 58 54.80 2.2
 SNY 41.71 1 eP 58 50.00 -2.8
 Z 21s 0.70um 4.5Msz
 N 16s 0.60um
 E 16s 0.80um
 HHC 42.03 347 eP 58 55.50 -0.1
 Z 24s 2.70um 5.0Msz
 N 11s 0.70um
 E 10s 0.40um
 BTO 42.16 345 P 58 56.00 -0.6
 PP 59 30.50
 LSA 42.37 317 eP 59 01.30 2.4
 OFUJ 42.58 22 P 59 00.20 0.3
 CAN 42.65 148 iPc 59 01.70 1.1
 e 59 33.30
 TOO 42.72 153 iPd 59 02.80 1.7
 0.8s 100.00nm 5.5mb
 CNB 42.84 148 iPc 59 03.60 1.4
 e 59 43.00
 CN2 43.74 3 eP 59 09.00 -0.2
 1.0s 10.00nm 4.4mb
 PCP 00 51.50

MAW	77.23	202	iPd-	49	42.90	0.4	WDC	88.14	45	ePd	50	39.50	0.3	INK	97.72	19	eSP	04	04.58	
	0.9s	113.00nm	eS	57	53.00	5.9mb			ipP	50	54.00	49km			1.3s	65.00nm	eP	51	22.00	-0.7
BDT	77.54	294	eP	49	45.00	0.0			eSP	51	02.00					pP	51	35.00	43km	
	1.0s	102.10nm				5.8mb	LTCM	88.24	46	P	50	40.00	0.3	BW06	97.90	47	P	51	23.00	-1.4
TIY	77.96	318	Pd	49	47.00	-0.1	PMR	88.31	19	eP	50	40.20	0.7		1.2s	10.96nm				5.3mb
	Z 20s	1.80um				5.4Msz		1.1s	80.00nm	e	50	53.60	45km	EDM	99.20	37	eP	51	29.50	-0.2
	N 15s	1.20um					ORV	88.36	47	ePd	50	40.60	0.4	SES	99.55	40	eP	51	31.00	-0.4
KMI	78.06	302	iPd	49	49.01	0.9			e	50	54.90	49km	GOL	99.88	51	P	51	32.80	-0.7	
	1.5s	380.00nm	PP	50	01.00		MWC	88.43	53	eP	50	41.00	0.1		1.0s	8.13nm				5.2mb
	Z 20s	1.20um	ec	49	51.99	10kmX	CMB	88.43	48	ePd	50	41.00	0.3	GLD	Z 18s	1.39um				5.5Msz
			ec	50	02.25				ipP	50	55.20	48km		100.01	51	Pd	51	30.00	-4.1X	
			eS	59	40.47				eSP	51	03.20		Z 19s		1.91um					5.6Msz
XAN	78.13	313	P	49	48.00	-0.1			ePPS	03	07.00		YKA	101.91	28	ePd	51	41.20	-0.5	
	1.2s	100.00nm				5.7mb	FRI	88.44	50	ePd	50	41.00	0.3		1.1s	6.40nm				5.2mb
	N 14s	0.40um							eSS	07	20.00		MEO	103.68	58	ePd	51	50.30	0.0	
	E 14s	0.70um	PP	52	49.00				eLR	18	15.00		MBC	105.36	14	ePd	52	09.00	12.2X	
			eS	59	43.00		MIN	88.66	46	ePd	50	41.60	-0.3	QUE	109.40	296	ePKP	56	21.00	1.3
CHG	78.27	295	iPd	49	50.00	0.9			ipP	50	55.20	48km	CNCB	113.60	120	PKP	56	29.00	0.5	
	1.0s	206.50nm				6.1mb	ISA	88.75	51	eP	50	43.00	0.7	LPB	113.65	119	ePKP	56	29.00	0.6
CHTO	78.27	295	iPd	49	49.40	0.3	SBB	88.80	52	eP	50	43.00	0.4			LR	31	40.00		
			ec	49	52.55	10kmX	BAR	88.82	55	eP	50	42.00	-0.6	ZOBO	113.76	119	PKP	56	30.00	1.2
			ed	50	01.49		RVR	88.84	53	eP	50	43.00	0.3			SKS	07	08.00		
SDN	79.78	17	eP	49	55.30	-1.2	LBFM	88.94	45	P	50	43.30	0.1			LR	31	52.00		
				50	08.80	46km	PLM	88.96	54	eP	50	43.00	-0.5	CCH	114.79	121	ePKP	56	30.00	-0.4
CD2	80.14	308	eP	49	59.00	-0.1	LSA	89.30	302	iP	50	47.00	1.5	SEK	118.61	219	ePKP	56	37.50	0.3
	1.0s	100.00nm	PP	50	13.00	5.7mb			PP	51	00.00				1.0s	30.00nm				
MHC	80.39	320	P	50	01.00	0.7	CLC	89.46	51	eP	50	46.00	0.4	BLF	118.87	218	ePKP			

NB2	136.14	344 PKP	57 04.80	-4.8X			i	57 26.00		ECB	147.67	354 PKP	57 29.70	-0.2
	1.0s	44.10nm			KZN	145.14	312 ePKP	57 24.90	-1.4		1.2s	595.00nm		
HFS	136.21	342 ePKP	57 08.80	-0.8	WTS	145.14	340 ePKP	57 25.50	-0.3	LCI	147.72	315 PKP	57 33.50	3.1X
	1.0s	32.10nm				0.8s	169.00nm			ECP	147.81	354 PKP	57 29.70	-0.4
Z	19s	1.05um		5.6Msz			e	57 38.50			1.2s	935.00nm		
		LR	47 54.00		IVA	145.18	318 ePKP	57 26.20	-0.1	BRT	147.93	316 PKP	57 33.00	2.2X
DSI	136.47	295 ePKP	57 12.00	1.0	PLE	145.26	319 ePKP	57 27.00	0.5	WLS	147.95	336 PKP	57 31.45	0.8
MBH	136.98	292 ePKPd	57 13.00	1.0	KMR	145.27	329 iPKP-	57 25.80	-0.4	CDF	147.98	336 ePKP	57 30.60	-0.1
ANTO	137.31	307 ePKPd	57 10.82	-1.7			iPKP	57 40.20			1.1s	17.10nm		
		ePP	59 56.83				isPKP	57 50.40		SLE	148.01	334 ePKPc	57 30.40	-0.3
BBTK	137.34	307 ePKP	57 17.00	4.4X			e(PP)	00 54.00		SAX	148.06	332 ePKPc	57 31.00	-0.1
PDCR	137.72	138 ePKP	56 57.00	-16.9X	PVY	145.27	317 ePKP	57 26.50	0.0	FEL	148.12	335 ePKP	57 31.57	0.6
		e	57 14.40		GRF	145.38	334 iPKPd	57 25.80	-0.6	OSS	148.13	331 ePKPc	57 31.20	0.1
		e	57 28.20		Z	19s	0.90um		5.6Msz	ZLA	148.28	334 ePKPc	57 30.80	-0.4
		e	57 36.80				e	57 28.40		VAL	148.30	358 iPKP	57 34.10	3.2X
VR1	139.45	318 ePKP	57 18.50	2.4X			e	57 40.40		MOF	148.49	335 PKP	57 31.58	0.0
ALT	139.53	307 ePKP	57 15.00	-1.6	GRFO	145.38	334 iPKPd	57 24.50	-1.8	LLS	148.50	332 ePKPc	57 31.50	-0.3
HLW	140.05	293 ePKP	57 18.00	0.3	PHP	145.41	315 iPKPd	57 21.00	-5.6X	VDL	148.59	331 ePKPc	57 31.80	-0.1
BUC	140.49	316 ePKP	57 13.00	-5.0X	OHR	145.45	314 iPKP	57 25.60	-1.2	VITF	148.62	337 PKP	57 32.00	0.4
BUC1	140.56	316 ePKPc	57 12.00	-6.1X		1.0s	465.00nm			BSF	148.64	336 ePKP	57 31.70	-0.1
SPC	141.45	326 ePKP	57 14.60	-5.3X			i	57 30.00			1.1s	46.40nm		
PVL	141.49	315 ePKP	57 19.00	-0.8	DBN	145.55	342 ePKP-	57 27.00	0.5	BBS	148.66	335 PKP	57 32.33	0.6
KDZ	142.07	313 ePKP	57 18.00	-3.0X	PUK	145.60	316 iPKP	57 34.00	7.1X	HAU	148.66	336 ePKP	57 31.90	0.2
RDO	142.18	312 ePKP	57 22.00	0.9	VLI	145.64	306 ePKP	57 26.50	-0.7		1.1s	34.20nm		5.7Msz
PLD	142.38	314 ePKP	57 19.00	-2.5X	EVR	145.68	310 ePKP	57 27.50	0.2	Z	21s	1.23um		
PGB	142.55	315 iPKP	57 19.00	-2.8X	PTJ	145.77	325 ePKP	57 27.20	0.0	SAL	148.75	329 PKP	57 32.80	0.9
BZS	142.71	321 ePKP	57 16.00	-5.9X	NTK	145.78	318 ePKP	57 28.00	0.6	ORI	148.85	316 PKP	57 37.00	4.7X
TIM	142.88	321 iPKPc	57 20.80	-1.4	BLY	145.79	322 ePKP	57 29.20	2.0	LOMF	149.02	335 PKP	57 32.36	0.0
VTS	143.17	315 iPKPc	57 21.00	-2.0	ZAG	145.81	325 iPKPd	57 28.20	1.0	TDS	149.13	315 PKP	57 33.60	0.9
MMB	143.25	313 ePKPc	57 20.00	-3.0X	TTG	145.81	317 ePKP	57 28.00						

10d 08h

RAB 0.79 294 iPc+ 16 30.20 0.1
 PMG 7.49 229 eP 18 01.00 -0.2
 eS 19 23.00
 QIS 20.52 218 eP 20 45.70 -0.6
 DZM 21.83 144 iPd 20 59.00 -0.6
 BRS 22.74 180 iPd 21 09.50 1.1
 WB5 23.64 228 iPc 21 17.90 0.8
 ASPA 26.42 222 iPc 21 42.80 -0.5
 0.6s 15.00nm 4.7mb
 MBL 36.10 240 iPd 23 08.20 -0.1
 0.4s 10.00nm 5.1mb
 NWA0 43.65 225 eP 24 37.00 26.5X
 BAO 151.21 134 ePKP 36 01.00 8.5X
 S.D. = 0.8 on 8 of 10 obs.

% AUG 10, 1990 09h 21m 25.12±0.90s
 38.876 N ± 8.1km 27.508 E ± 10.1km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

Izm 0.51 202 iPg 21 35.50 -0.1
 iSg 21 44.50
 DST 1.13 50 ePn 21 45.60 -0.8
 EZN 1.32 316 iPn 21 49.50 0.0
 BNT 1.51 12 ePn 21 52.00 -0.2
 IZI 2.11 46 ePn 22 02.00 1.1
 S.D. = 1.0 on 5 of 5 obs.

% AUG 10, 1990 09h 30m 43.50±2.98s
 43.733 N ± 16.2km 7.187 E ± 15.7km
 DEPTH = 10.0km (geophysicist)
 NEAR SOUTH COAST OF FRANCE (379)
 MD 1.3 (STR).

REVF 0.13 87 Pg 30 46.57 -0.1
 MVIF 0.16 351 Pg 30 47.68 0.3
 AURF 0.18 33 Pg 30 47.91 0.2
 TOUF 0.28 9 Pg 30 48.87 -0.7
 AUTN 0.31 33 Pg 30 50.25 0.1
 Sg 30 55.48
 SAOF 0.37 46 Pg 30 51.10 0.0
 Sg 30 55.93
 S.D. = 0.5 on 6 of 6 obs.

% AUG 10, 1990 09h 43m 14.89±0.51s
 44.563 N ± 4.6km 7.265 E ± 5.1km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.0 (GEN).

PZZ 0.13 244 P 43 18.53 0.3
 S 43 20.89
 STV 0.32 172 P 43 21.58 0.0
 S 43 25.50
 ENR 0.35 162 P 43 22.22 0.0
 S 43 26.73
 RRL 0.49 316 P 43 24.68 -0.3
 S 43 31.24
 ROB 0.51 122 P 43 25.60 0.4
 S 43 31.96
 FIN 0.76 117 P 43 29.40 -0.4
 S 43 39.24
 IMI 0.79 145 P 43 30.01 -0.3
 S 43 39.65
 LSD 0.90 355 P 43 32.40 0.1
 PCP 0.92 91 P 43 32.68 0.2
 S.D. = 0.3 on 9 of 9 obs.

% AUG 10, 1990 10h 40m 10.82±0.99s
 31.202 S ± 10.8km 68.997 W ± 10.8km
 DEPTH = 33.0km (normal)
 SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.33 149 eP 40 20.50 1.4
 RTLL 0.47 106 iPd 40 21.90 0.9
 RTBS 0.60 220 ePd 40 23.00 0.2
 (S) 40 36.00
 CFA 0.76 122 ePd 40 24.20 -1.0
 eS 40 38.00
 RTCV 0.76 149 ePc 40 23.90 -1.3
 S 40 38.00
 RTRS 1.10 339 iPc 40 29.80 -0.2
 eS 40 48.80
 S.D. = 1.3 on 6 of 6 obs.

* AUG 10, 1990 10h 49m 55.59±1.34s
 5.952 S ± 9.2km 153.450 E ± 13.4km

DEPTH = 32.1 ± 8.8 km
 4.6mb (4 obs.)
 NEW IRELAND REGION (190)

RAB 2.16 324 eP 50 30.00 -0.1
 iS 51 24.00
 PMG 7.12 241 eP 51 41.00 0.7
 HNR 7.31 119 eP 51 52.00 9.1X
 eS 53 34.00
 CTA 15.70 206 iPc 53 41.50 5.4X
 1.0s 24.00nm 4.3mb
 QIS 19.78 221 eP 54 25.00 -1.2
 DZM 20.36 143 iPc 54 32.10 -0.3
 GUA 21.14 336 eP 54 48.80 8.5X
 GUMO 21.20 336 eP 54 49.50 8.6X
 eS 58 47.50
 BRS 21.33 182 iPd 54 43.00 0.8
 ASPA 25.77 225 eP 55 24.70 -0.7

1.0s 13.00nm 4.5mb
 Z 17s 0.59um 4.2mszX
 LR 05 43.00
 LZH 62.50 316 eP 08 17.00 -1.8
 2.5s 42.00nm 5.1mb
 pP 00 28.50 39kmX
 GUN 73.27 301 P 01 27.60 1.1
 PKI 73.57 301 P 01 28.60 0.3
 KKN 73.74 301 P 01 29.70 0.6
 DMN 73.84 301 P 01 29.00 0.1
 GKN 74.35 301 P 01 32.80 0.3
 SPA 84.09 180 iPd 02 24.80 0.3
 1.0s 5.50nm 4.7mb
 IFR 146.12 327 e(PKP) 09 26.00 -8.0X
 i 09 36.00
 BMA 146.73 149 ePKP 09 48.40 13.4X
 TIO 149.26 326 iPKP 09 44.00 5.0X
 S.D. = 1.0 on 13 of 20 obs.

& AUG 10, 1990 11h 07m 51.80s
 57.109 N 143.141 W
 DEPTH = 10.0km (geophysicist)
 GULF OF ALASKA (15)
 <AGS-P>. ML 4.1 (PMR).

MID 2.87 325 eP 08 32.46 -6.0
 YKU 3.04 35 eP 08 36.08 -4.7
 eS 09 08.83
 HQN 3.25 42 iP 08 38.03 -5.8
 eS 09 13.86
 YAH 3.34 12 iP 08 40.02 -5.4
 eS 09 16.30
 PCA 3.36 26 iP 08 39.84 -5.5
 eS 09 16.71
 BCPM 3.39 31 eP 08 40.19 -5.7
 eS 09 18.00
 TGL 3.66 2 iP 08 43.81 -6.0
 eS 09 24.46
 BALM 3.96 6 iP 08 48.14 -5.9
 eS 09 32.66
 SIT 4.27 87 iP 08 49.80 -8.4
 VZW 4.34 337 eP 08 52.46 -6.8
 VLZ 4.36 339 eP 08 52.72 -6.8
 GLB 4.36 356 iP 08 53.25 -6.4
 SEW 4.46 315 eP 08 54.59 -6.3
 KLU 4.62 343 iP 08 56.48 -6.9
 HYT 4.73 36 P 09 00.00 -5.0
 BRLK 4.86 306 eP 09 00.66 -6.1
 CNPM 4.91 303 eP 09 01.69 -5.7
 SLKM 5.02 316 eP 09 02.60 -6.3
 SHU 5.15 291 eP 09 05.30 -5.4
 HOM 5.15 303 eP 09 05.09 -5.7
 NNL 5.18 308 eP 09 06.60 -4.6
 SCM 5.20 338 eP 09 05.09 -6.4
 TOA 5.24 344 iPc 09 06.10 -6.0
 PMS 5.30 324 eP 09 06.05 -6.9
 SML 5.41 333 eP 09 07.88 -6.5
 PLRM 5.44 328 eP 09 09.98 -4.9
 PMR 5.44 328 iP 09 10.00 -4.8
 GHO 5.53 330 eP 09 11.19 -5.0
 PWA 5.71 326 eP 09 09.82 -8.8
 SUA 5.85 321 eP 09 13.87 -6.8
 AUE 5.86 297 eP 09 16.02 -4.6
 CDD 5.87 292 eP 09 15.51 -5.4
 RDT 5.93 310 eP 09 15.01 -6.8
 SPU 6.14 315 eP 09 18.23 -6.5
 CGLM 6.20 316 eP 09 19.68 -5.9
 CKL 6.26 315 eP 09 19.76 -6.7
 MCNL 6.28 294 eP 09 20.84 -5.9

NCG 6.32 317 eP 09 21.49 -5.8
 BGL 6.32 315 eP 09 21.55 -5.8
 PDB 6.39 299 eP 09 22.26 -6.0
 CUT 6.41 329 eP 09 23.30 -5.3
 DWY 7.20 13 P 09 33.00 -6.6
 SVW 7.57 307 eP 09 38.30 -6.5
 FBA 8.14 346 eP 09 45.40 -7.3
 TTA 8.68 318 e(P) 09 53.90 -6.5
 SDN 9.83 267 eP 10 11.60 -4.4
 IMA 10.28 335 eP 10 15.20 -7.2
 SES 19.99 96 eP 12 22.00 -5.0
 48 obs. associated

* AUG 10, 1990 11h 19m 12.86±1.22s
 36.628 N ± 10.1km 23.698 E ± 9.1km
 DEPTH = 125.3 ± 16.0 km
 SOUTHERN GREECE (368)

VLI 0.62 279 eP 19 31.00 -1.4
 VAM 1.28 161 eP 19 39.00 0.4
 ATH 1.34 1 eP 19 38.60 -0.6
 ITM 1.52 292 eP 19 42.70 1.4
 APE 1.53 73 eP 19 41.40 0.0
 NPS 2.07 131 eP 19 48.50 0.6X
 NEO 2.70 352 eP 19 56.20 0.2
 EVR 2.73 327 eP 19 57.80 1.3
 VLS 2.92 303 eP 19 59.20 0.3
 KAP 3.01 110 eP 20 01.90 1.7X
 KEK 4.35 316 eP 20 18.10 0.0
 LCI 5.83 311 P 20 43.00 4.8X
 SOI 6.26 286 P 21 01.00 16.9X
 TDS 6.54 300 P 20 48.00 0.0
 BRT 6.61 312 P 20 48.50 -0.4
 MGR 7.29 301 P 20 57.50 -0.6
 SGO 7.65 303 P 21 02.50 -0.5
 JVI 10.72 113 eP 21 42.00 -2.0X
 PRNI 11.32 120 eP 21 50.00 -2.0X
 S.D. = 0.9 on 13 of 19 obs.

AUG 10, 1990 11h 23m 32.68±0.29s
 15.936 N ± 4.8km 93.979 W ± 3.6km
 DEPTH = 78.9 ± 2.9 km
 5.1mb (51 obs.)
 NEAR COAST OF CHIAPAS, MEXICO (69)

PSM 1.27 307 iP 23 56.00 0.5
 iS 24 12.00
 SCX 1.52 58 iP 24 02.50 4.0X
 iS 24 22.50
 TPX 1.95 122 iP 24 05.00 0.6
 iS 24 29.00
 SBG 2.02 113 iPc 24 06.00 0.3
 SOG2 2.62 117 iPc 24 13.50 -0.3
 JAT 2.78 125 iPc 24 15.50 -0.3
 EVV 2.83 333 eP 24 17.00 0.5
 iS 24 52.65
 OXX 2.87 294 iP 24 16.50 -0.8
 iS 24 46.00
 BVA 3.46 111 iPd 24 26.00 0.4
 PCG 3.57 115 eP 24 27.50 0.4
 TER 3.57 117 iPd 24 27.00 0.1
 REC 3.65 114 ePc 24 28.50 0.3
 S 25 28.50
 SLP 3.76 108 iPd 24 29.20 -0.4
 IXG 3.83 117 iPc 24 31.50 0.9
 S 25 03.50
 YUP 4.39 113 iPc 24 38.40 -0.1
 LVVM 4.45 328 eP 24 36.50 -2.7
 (S) 25 26.00
 IIT 5.15 307 eP 24 49.50 0.3
 PPM 5.42 306 eP 24 53.50 0.3
 ACX 5.72 280 iP 24 52.50 -4.4X
 III 5.78 296 iP 24 57.00 -1.0
 UNM 6.00 305 eP 25 02.00 0.9
 CRX 6.44 303 eP 25 07.50 0.3
 IJJ 6.66 305 iP 25 11.50 1.2
 MRX 7.83 300 (P) 25 26.50 0.5
 GCM 12.46 73 eP 26 28.75 0.1
 pP 26 31.60
 UYO 18.16 359 iPd 27 40.50 -0.6
 eLg 30 47.30
 OLY 19.62 6 P 27 55.00 -2.4
 RRO 19.83 349 iP 27 59.90 0.2
 0.3s 21.60nm 4.9mb
 SIO 19.84 354 iP 27 59.10 -0.7
 TUL 19.96 356 iP 28 01.00 0.0
 0.7s 11.40nm 4.3mb

LPG	2.00	323	Pg	35	56.70	1.7
			Sg	35	56.40	
LPL	2.02	323	Pg	35	32.60	1.8
			Sg	35	56.80	
S.D. = 0.8 on 23 of 24 obs.						

AUG 10, 1990 15h 00m 00.24 ± 0.30s						
57.413 N ± 6.6km 33.094 W ± 4.5km						
DEPTH = 10.0km (geophysicist)						
4.8mb (46 obs.) 4.2Msz (5 obs.)						
(402)						
NORTH ATLANTIC OCEAN						
DLE	15.61	94	eP	03	47.80	6.2X
	1.4s	119.00	nm			5.0mb
SCH	18.85	276	eP	04	23.00	0.7
BER	19.88	65	eP	04	32.50	-1.6
FLN	21.23	100	eP	04	47.60	-0.6
	0.9s	54.05	nm			4.9mb
Z	21s	1.45	um			4.3Msz
LPF	21.38	102	eP	04	49.20	-0.4
	1.5s	125.35	nm			5.1mb
LDF	21.52	100	eP	04	50.60	-0.5
	1.4s	91.50	nm			5.0mb
NB2	22.62	62	P	05	01.40	-0.7
	1.4s	53.70	nm			4.8mb
MFF	22.75	104	eP	05	03.80	0.4
	1.1s	22.00	nm			4.6mb
SNF	22.81	92	P	05	08.80	4.9X
WIT	22.96	84	eP	05	08.00	2.7
WTS	23.42	86	eP	05	12.00	2.2
	0.9s	17.00	nm			4.6mb
ENN	23.57	90	eP	05	18.00	6.8X
	1.5s	117.00	nm			5.2mb
MEM	23.69	90	P	05	14.80	2.3
LSF	23.86	103	eP	05	14.00	-0.2
	0.9s	22.10	nm			4.7mb
HFS	24.01	64	eP	05	14.90	-0.6
	1.1s	16.10	nm			4.5mb
Z	17s	0.47	um			4.0Msz
		LR		11	05.00	
BNS	24.14	88	iPc	05	20.00	3.2X
Z	17s	1.40	um			4.5Msz
TCF	24.20	102	eP	05	17.70	0.2
	1.1s	32.95	nm			4.9mb
LFF	24.32	106	eP	05	18.50	-0.2
	1.2s	35.70	nm			4.9mb
BGF	24.36	101	eP	05	18.70	-0.4
	1.1s	40.30	nm			5.0mb
SSF	24.40	99	eP	05	18.60	-0.8
	1.0s	36.00	nm			5.0mb
MAF	24.43	102	eP	05	19.80	0.1
	1.2s	59.50	nm			5.1mb
LOR	24.46	99	eP	05	19.30	-0.7
	1.0s	31.00	nm			4.9mb
Z	21s	1.08	um			4.3Msz
RJF	24.48	105	eP	05	20.60	0.4
	1.3s	32.50	nm			4.8mb
Z	19s	0.40	um			3.9Msz
AVF	24.48	100	eP	05	21.00	0.8
	1.0s	14.00	nm			4.6mb
LBF	24.70	99	eP	05	22.00	-0.3
	1.0s	23.00	nm			4.8mb
LPO	24.73	106	eP	05	23.20	0.6
	1.0s	28.00	nm			4.9mb
SMF	24.84	100	eP	05	23.40	-0.2
	1.1s	46.40	nm			5.1mb
CAF	25.02	105	eP	05	25.70	0.2
	1.2s	16.35	nm			4.6mb
HAU	25.35	95	eP	05	28.40	-0.1
	1.2s	35.70	nm			4.9mb
Z	20s	0.32	um			3.8Msz
EPF	25.46	110	eP	05	29.90	0.3
	1.3s	18.05	nm			4.6mb
CDF	25.61	93	eP	05	30.00	-1.0
	1.0s	18.00	nm			4.7mb
BSF	25.69	95	eP	05	31.40	-0.4
	1.1s	34.20	nm			5.0mb
TOL	25.70	121	eP	05	33.00	1.1
	1.2s	125.00	nm			5.5mb
		i		05	36	

	E	15s	0.90um				
CLL		27.10	83 eP	05	44.00	-0.7	
		1.7s	24.00nm			4.6mb	
Z		17s	1.50um			4.6MszX	
LPL		27.10	99 eP	05	44.40	-0.6	
		0.9s	10.65nm			4.5mb	
LPG		27.13	99 eP	05	44.60	-0.7	
		0.9s	6.55nm			4.3mb	
BNI		27.38	100 P	05	51.00	3.6X	
BRG		27.84	83 eP	05	53.60	2.2	
		1.5s	15.00nm			4.5mb	
			e	06	47.40		
KEV		28.09	40 eP	05	56.00	2.6	
MDI		28.54	95 P	06	00.00	2.4	
KHC		28.60	87 P	06	01.00	2.7	
PRU		28.64	84 eP	05	58.00	-0.6	
			e	06	35.50		
SUF		29.09	55 iP	06	05.50	3.0X	
		0.8s	6.00nm			4.4mb	
NUR		29.11	59 iP	06	07.20	4.5X	
		0.9s	16.90nm			4.8mb	
KSP		29.11	82 eP	06	03.00	0.1	
FVI		29.68	91 P	06	11.00	3.1X	
PGD		30.86	96 P	06	20.00	1.4	
KRA		31.50	80 eP	06	24.00	0.1	
TIO		31.94	135 iP	06	27.50	-0.7	
MBC		34.42	335 eP	06	49.00	-0.1	
		1.3s	30.00nm			5.0mb	
BZS		35.07	86 eP	06	54.00	-1.0	
FFC		37.05	296 eP	07	13.00	1.4	
		0.8s	9.00nm			4.6mb	
CMP		37.14	83 ePc	07	13.00	0.5	
SKO		37.40	90 iP	07	15.00	0.3	
	Z	17s	0.89um			4.6MszX	
	N	18s	0.58um				
	E	18s	0.91um				
			iS	12	24.00		
			LR	23	12.00		
OHR		37.65	92 eP	07	18.50	1.6	
YKA		38.57	313 eP	07	25.30	1.1	
		0.9s	4.50nm			4.2mb	
INK		41.91	327 eP	07	55.00	3.3X	
UYO		46.76	268 e(P)	08	23.00	-8.1X	
LRM		47.86	292 eP	08	44.70	4.7X	
FBA		48.38	329 eP	08	43.90	0.4	
MEO		48.52	272 e(P)	08	45.00	0.0	
IMA		49.05	332 eP	08	48.10	-0.7	
TTA		52.18	331 eP	09	12.60	0.0	
LKO		52.27	145 P	09	11.84	-1.9	
		1.0s	13.50nm			4.8mb	
DSI		52.58	89 eP	09	16.00	0.1	
ALQ		52.65	278 eP	09	17.00	0.3	
		1.4s	10.47nm			4.6mb	
PRNI		53.33	90 eP	09	21.00	-0.5	
MBH		53.71	90 eP	09	25.00	0.8	
TIC		55.18	145 P	09	34.00	-1.2	
		1.0s	12.50nm			4.9mb	
KIC		55.54	145 P	09	36.40	-1.3	
		1.0s	11.50nm			4.9mb	
LIC		55.58	145 P	09	36.70	-1.3	
		1.0s	15.50nm			5.0mb	
Z		20s	0.39um			4.5Msz	
MAIO		61.58	67 eP	10	19.00	-0.9	
BCAO		66.45	121 iPc	10	50.30	-1.5	
		0.9s	14.00nm			5.2mb	
WMO		67.68	42 P	10	59.00	-0.4	
PDCR		69.07	186 eP	11	12.90	0.0	
QUE		70.18	65 eP	11	08.10	-7.0X	
BAO		73.82	195 eP	11	37.50	0.9	
GTA		75.74	36 eP	11	46.00		

10d 15h

WRA 141.45 19 PKP 19 33.00 0.1
0.9s 2.00nm
SPA 147.24 180 ePKP 19 40.00 -1.4
1.0s 20.50nm
S.D. = 1.1 on 84 of 96 obs.

% AUG 10, 1990 15h 03m 45.60 ± 0.65s
39.253 N ± 5.8km 28.263 E ± 6.2km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

DST 0.45 39 iPg 03 54.50 -0.3
iSg 04 00.50
BNT 1.13 347 ePn 04 07.40 0.6
EDC 1.13 344 iPn 04 08.00 1.2
IZM 1.16 223 iPg 04 06.60 -0.7
KHL 1.35 133 iPn 04 12.10 1.5
IZI 1.43 40 ePn 04 12.40 0.8
ALT 1.45 97 ePn 04 11.00 -1.0
EZN 1.60 292 iPn 04 13.90 -0.1
GPA 1.89 56 ePn 04 17.50 -0.7
CTT 1.90 4 ePn 04 17.40 -0.9
ISK 1.91 18 ePn 04 18.00 -0.5
S.D. = 1.0 on 11 of 11 obs.

? AUG 10, 1990 15h 10m 59.70 ± 5.25s
58.022 N ± 17.3km 30.715 W ± 64.8km
DEPTH = 10.0km (geophysicist)
4.3mb (19 obs.) 3.6msz (2 obs.)

NORTH ATLANTIC OCEAN (402)

FLN 20.11 104 eP 15 36.10 0.0
0.9s 14.75nm 4.3mb
Z 20s 0.25um 3.6msz
GRR 20.16 106 eP 15 36.20 -0.3
1.2s 20.85nm 4.3mb
LPF 20.29 107 eP 15 37.60 -0.4
1.1s 17.10nm 4.3mb
LDF 20.40 104 eP 15 39.20 0.1
1.1s 14.65nm 4.2mb
NB2 21.21 64 P 15 49.40 2.0
0.9s 1.60nm 3.4mb
HFS 22.60 66 eP 15 59.70 -1.5
1.1s 13.50nm 4.3mb
LSF 22.79 107 eP 16 03.20 0.0
0.7s 6.60nm 4.3mb
TCF 23.11 106 eP 16 06.40 0.0
1.0s 7.00nm 4.2mb
BGF 23.25 105 eP 16 07.40 -0.4
0.6s 3.60nm 4.1mb
SSF 23.26 103 eP 16 08.00 0.2
0.9s 9.85nm 4.4mb
LFF 23.30 110 eP 16 07.90 -0.3
0.8s 5.35nm 4.1mb
LOR 23.31 102 eP 16 08.40 0.1
0.8s 7.40nm 4.3mb
Z 20s 0.20um 3.6msz
MAF 23.34 106 eP 16 08.00 -0.6
1.0s 14.00nm 4.5mb
AVF 23.36 104 eP 16 09.60 0.8
1.1s 4.90nm 4.0mb
LBF 23.56 103 eP 16 10.90 0.2
0.9s 9.85nm 4.4mb
LPO 23.71 110 eP 16 12.70 0.5
1.0s 8.00nm 4.2mb
SMF 23.71 104 eP 16 11.70 -0.5
1.0s 12.00nm 4.4mb
CAF 23.98 109 eP 16 14.80 0.0
1.2s 8.95nm 4.2mb
BSF 24.49 98 eP 16 20.80 1.0
1.0s 8.00nm 4.3mb
KEV 26.80 41 eP 16 42.00 0.9
SUF 27.69 56 eP 16 48.00 -1.4
NUR 27.70 61 eP 16 49.00 -0.4
S.D. = 0.8 on 22 of 22 obs.

AUG 10, 1990 15h 44m 31.36 ± 0.31s
0.333 N ± 2.6km 126.175 E ± 3.5km
DEPTH = 53.2 ± 2.7 km
5.8mb (58 obs.)

MOLUCCA PASSAGE (266)

Mo=5.0*10**18 Nm (PPT).

FAULT PLANE SOLUTION: P-Waves

NP1: Strike=240 Dip=40 Slip= 120

NP2: 23 56 67

Principal Axes:

T P1g=69 Azm=242

P 9 129
Comment: The focal mechanism is
poorly controlled and
corresponds to reverse
faulting with a moderate
strike-slip component. The
preferred fault plane is not
determined.

RADIATED ENERGY

No. of sta: 6 Focal mech. C
Energy 1.6 ± 0.6 * 10 ** 13 Nm

MOMENT TENSOR SOLUTION

Dep 36 No. of sta: 10
Moment Tensor: Scale 10**18 Nm

Mrr= 1.49 Mtt= 0.32

Mff=-1.81 Mrt=-0.78

Mrf= 1.23 Mtf=-0.75

Principal axes:

T Val= 2.37 P1g=57 Azm=217

N -0.07 28 3

P -2.31 15 101

Best Double Couple: Mo=2.3*10**18

NP1: Strike=225 Dip=39 Slip= 140

NP2: 349 66 59

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 145, 36C

Centroid Location:

Origin Time 15:44:41.9 0.6

Lat 0.87N 0.04 Lon 126.15E 0.04

Dep 32.7 BDY Half-duration 4.8

Moment Tensor: Scale 10**18 Nm

Mrr= 1.91 0.06 Mtt= 0.06 0.06

Mff=-1.97 0.09 Mrt=-0.80 0.12

Mrf= 0.49 0.13 Mtf=-1.28 0.06

Principal Axes:

T Val= 2.41 P1g=62 Azm=208

N 0.18 28 25

P -2.59 1 115

Best Double Couple: Mo=2.5*10**18

NP1: Strike=231 Dip=50 Slip= 128

NP2: 1 53 53

DAV 6.74 355 eP- 46 09.20 -0.9
CGP 8.20 350 eP 46 31.00 0.6
2.0s 921.00nm 6.3mb
TSM 8.97 296 ePc 46 44.10 3.1x
PLP 10.83 354 eP 47 06.00 -0.4
KKM 11.45 300 ePd 47 16.00 1.1
0.9s 133.70nm 6.0mb
PPR 11.95 322 eP 47 21.50 -0.1
1.0s 83.00nm 5.7mb
MTN 13.99 160 eP 47 46.50 -2.0
PGP 14.07 339 ePd 47 50.20 0.7
e 48 24.00
KNA 16.18 171 eP 48 14.60 -2.2
BAG 16.90 341 eP 48 25.00 -1.1
e 51 24.00
CVP 17.78 346 ePc 48 35.60 -1.2
SZP 18.01 342 iPc 48 39.00 -0.6
WB5 21.63 159 iPc 49 16.30 -2.8
WRA 21.68 159 Pc 49 20.50 0.9
0.8s 297.80nm 5.7mb
LAT 21.91 109 eP 49 22.00 0.1
MBL 22.24 196 eP 49 23.70 -1.4
0.6s 57.00nm 5.2mb
GUMO 22.72 54 eP 49 29.60 -0.2
0.9s 613.81nm 6.0mb
PJG 22.72 54 eP 49 29.50 -0.3
GUA 22.73 54 eP 49 29.80 -0.1
0.9s 685.71nm 6.1mb
Z 21s 42.32um 5.9msz
eS 54 07.00
KGM 22.91 274 ePc 49 31.30 -0.4
PMG 23.02 115 eP 49 32.00 -0.8
QIZ 24.53 320 iPc 49 47.00 -0.5
1.9s 1100.00nm 6.1mb
N 15s 18.60um
PP 50 18.00
eS 53 56.50
QIS 24.57 148 iPc 49 46.60 -1.2
KLM 24.67 277 eP 49 49.00 0.2
HKC 24.77 333 iP 49 49.50 -0.1
MCO 24.90 331 eP 49 50.60 -0.3
NANU 25.01 204 eP 49 51.00 -0.9
0.5s 50.00nm 5.3mb

ASPA 25.01 163 eP 49 51.50 -0.5
0.8s 827.00nm 6.3mb
Z 21s 18.09um 5.5msz
eS 54 17.80
ePcS 00 47.60
LR 04 00.30
ANP 25.11 350 eP 49 52.00 -1.0
iS 54 12.00
IPM 25.47 280 ePc 49 56.10 -0.3
e 53 30.20
QZH 25.54 344 eP 49 56.00 -0.9
Z 22s 23.30um 5.7msz
N 22s 20.60um
SP 50 10.00
S 54 18.00
GZH 25.83 332 P 50 00.00 0.4
Z 24s 14.50um 5.4msz
N 14s 5.00um
E 16s 5.00um
PP 50 06.50
RAB 26.36 100 iPc 50 05.70 1.1
iS 54 40.00
WARB 26.37 179 eP 50 04.00 -0.5
0.7s 125.00nm 5.6mb
SNG 26.38 286 iPd 50 04.40 -0.3
1.4s 520.93nm 5.9mb
eS 54 45.70
MEKA 27.78 195 iPd 50 16.10 -1.4
0.5s 29.00nm 5.2mb
CTA 28.26 137 iPc 50 20.20 -1.6
1.2s 253.91nm 5.7mb
i 51 23.00
iS 55 06.00
PCT 28.33 301 eP 50 22.00 -0.5
NNT 28.91 296 eP 50 13.40 -14.3x
e 53 28.00
LOE 29.44 306 eP 50 30.00 -2.5
NST 29.88 302 eP 50 35.50 -0.9
MRWA 30.95 197 eP 50 27.00 -18.7x
SSE 30.96 352 Pc 50 44.00 -1.7
2.0s 250.00nm 5.6mb
Z 22s 19.80um 5.7msz
N 22s 17.70um
PP 50 56.00
S 55 44.00
SS 57 26.00
KAGJ 31.01 8 eP 50 45.80 -0.3
FORR 31.07 177 iPd 50 34.00 -12.6x
COOL 31.41 188 eP 50 48.00 -1.7
BDT 31.59 304 eP 50 49.50 -1.9
1.5s 330.30nm 5.9mb
QLP 31.92 148 eP 50 53.00 -1.2
GYA 32.06 326 P 50 55.00 -0.6
Z 20s 11.20um 5.5msz
N 15s 8.60um
E 15s 9.40um
PP 52 05.00
S 56 05.00
BAL 32.06 195 eP 50 54.00 -1.4
WHN 32.08 341 eP 50 55.80 0.3
Z 24s 8.80um 5.4msz
N 18s 9.10um
E 12s 1.30um
PP 51 01.50
S 56 04.00
NJ2 32.30 348 Pd 50 59.00 1.6
N 15s 2.00um
E 15s 2.00um
S 56 12.00
KUMJ 32.33 7 P 50 56.70 -1.0
CHG 32.43 306 iPc 50 57.50 -1.3
0.9s 104.62nm 5.7mb
eS 56 20.00
KLB 32.74 193 eP 51 00.00 -1.3
KMI 33.47 319 Pc 51 07.50 -0.5
2.0s 610.00nm 6.1mb
Z 20s 16.30um 5.7msz
S 56 22.00
MUN 33.49 195 eP 51 06.00 -1.8
SHNJ 33.93 7 P 51 10.30 -1.3
NWA0 34.14 193 eP 51 15.00 1.6
TKSJ 34.28 12 P 51 14.20 -0.4
RMO 34.42 142 eP 51 13.00 -2.9
e 52 45.00
SHK 34.56 9 eP 51 16.20 -0.8
WKYJ 34.85 14 P 51 19.00 -0.5
HNR 34.99 107 eP 51 20.00 -1.0

			eS	56	44.00			S	58	45.00	TAB	81.80	308	iP+	56	47.50	1.0			
STK	35.21	157	iPd	51	21.40	-1.2	CN2	43.28	359	iPc	52	28.00	-1.4	QASM	83.24	296	iPc	56	54.70	0.6
	0.9s		92.00nm			5.7mb		1.0s		80.00nm			5.4mb	SRAT	83.25	288	iPc	56	56.30	1.8
			eS	56	40.60		Z	19s		6.80um			5.6Msz	TDD	83.34	282	iP+	56	56.90	2.2
RKG	35.29	193	eP	51	28.00	4.8X	N	16s		1.60um				ARO	83.40	281	iP+	56	57.00	2.0
YONJ	35.34	10	P	51	23.50	-0.1	E	16s		0.70um				AFIF	83.47	294	iPc	56	57.30	2.0
TSRJ	36.20	14	P	51	30.50	-0.4				PP	52	38.00		KMTA	83.54	288	iPc	56	57.30	1.4
TIA	36.67	348	eP	51	34.10	-0.8	MDJ	44.20	4	iPc	52	42.00		SGH	83.60	281	iP+	56	58.21	2.1
N	15s		3.80um				N	18s		4.00um			0.0	DAF	83.71	282	iP+	56	58.90	2.4
			S	57	09.00					PP	52	47.00		KSU	83.79	281	iP+	56	59.35	2.4
CMS	36.72	151	eP	51	35.00	-0.4				iS	59	00.00		SVW	84.01	29	iPc	56	58.70	1.5
ADE	37.02	163	iPd	51	37.70	-0.2	LSA	44.33	314	eP	52	39.00	0.3	TTA	84.16	27	ePc	56	58.90	0.9
	1.0s		140.00nm			5.8mb		3.0s		300.00nm			5.5mb	UQSK	84.28	296	iPc	57	01.00	1.6
CD2	37.11	327	eP	51	36.80	-1.9				PP	52	48.00		TVO	84.93	108	eP	57	08.00	5.3X
Z	22s		9.30um			5.5Msz				S	59	10.00			1.4s		150.00nm			5.9mb
			PP	51	45.50		HOOJ	44.60	18	eP	52	40.90	0.8	BRW	85.55	18	eP	57	06.60	1.9
			S	57	20.10		SAP	44.65	16	eP	52	41.00	0.5	IMA	85.69	24	ePc	57	06.20	0.5
XAN	37.23	336	iPd	51	38.50	-1.1	DZM	45.12	122	iPc	52	43.10	-1.6		2.3s		550.20nm			6.3mb
	1.0s		100.00nm			5.7mb	PVC	45.17	116	iPc	52	46.00	0.9	PMO	86.15	105	iP	57	11.10	2.4
N	14s		4.80um				KUSJ	45.70	19	P	52	48.90	0.1		1.4s		100.00nm			5.8mb
E	14s		4.50um				GTA	45.75	331	iPd	52	48.40	-1.1	TPT	86.42	105	iP	57	12.40	2.4
			SP	51	55.00			0.8s		60.00nm			5.5mb		1.4s		120.00nm			5.9mb
			S	57	20.00		Z	20s		15.00um			5.9Msz	NPA	87.11	255	iP	57	14.00	0.6
CHJJ	37.48	17	P	51	40.40	-1.3	N	20s		4.60um				PMR	87.17	28	eP	57	12.10	-0.7
BRS	37.59	139	iPc	51	39.50	-3.3X				PP	52	58.00			2.2s		498.50nm			6.3mb
			i	51	41.50					SP	53	04.00		AAE	87.39	279	eP	57	17.50	2.3
			e(S)	57	34.00					PcP	54	27.80		FBA	88.01	25	eP	57	15.10	-1.7
MTMJ	37.65	15	P	51	42.00	-1.2														

	1.4 s	300.00nm	5	9mb	EDM	91.22	33	iPd	00	01.20	0	0				iSKP	09	44.00	
		S	09	08.00	LNV	91.61	127	iPd	00	04.70	1.1		SUF	134.16	345	ePKP	05	55.00	-16.4X
PGC	83.37	33 eP	59	24.00	0.2	MEO	92.33	54	iPd	00	07.20	0.4	WIN	135.58	199	iPKPd	06	11.50	-4.2X
	0.9s	174.00nm		5.8mb	PEL	92.51	126	iPd	00	10.40	2.6			0.7s		43.00nm			
IPM	83.65	277 ePd	59	28.00	1.9		0.7s	20.55nm			5.2mb		NUR	136.43	344	iPKP	06	02.00	-13.8X
MCW	83.70	33 P	59	26.30	0.7			i	01	37.50	372km			0.8s		54.30nm			
TTA	84.16	10 ePd	59	27.10	-0.6	FCH	92.73	127	eP	00	11.70	2.5				i	06	14.80	
MSU	84.21	46 P	59	30.40	1.8	LZH	92.81	307	ePd	00	09.69	0.6	TAB	138.07	305	ePKP	06	09.00	-10.8X
PMR	84.21	13 eP	59	25.90	-1.9		2.0s	574.00nm			6	2mb				e	06	19.00	
	1.2s	216.70nm		5.8mb		N	11s	0.60um					NB2	138.36	354	PKP	06	06.80	-12.7X
		epP	00	54.40	385kmX			PP	03	31.00				1.2s		25.30nm			
SIT	84.27	22 eP	59	27.90	-0.2			S	10	04.50			UPP	138.57	349	iPKP	06	06.70	-13.1X
DUG	84.65	44 P	59	31.20	0.5			sS	10	46.50			HFS	138.94	352	ePKP	06	08.20	-12.3X
	1.5s	43.65nm		5.0mb		INK	93.45	15	iPd	00	09.70	-1.4		0.9s		17.90nm			
SNG	84.94	279 iPd	59	34.40	2.0		1.2s	151.00nm			5.9mb		RYD	139.12	285	ePKP	06	14.00	-8.0X
	1.2s	928.13nm		6.5mb		SIO	94.42	54	eP	00	16.80	0.5	BER	139.42	358	ePKP	06	11.50	-9.8X
		eS	09	22.10				e	01	43.00	367km		NAI	140.46	242	iPKPd	06	21.00	-3.9X
III	85.32	69 (P)	59	36.50	2.1	TUL	94.87	54	eP	00	18.50	0.1	SRAT	141.67	274	ePKP	06	22.70	-4.3X
TOA	85.32	14 eP	59	33.10	-0.3		1.0s	14.30nm			5.1mb		AFIF	142.22	284	iPKPc	06	24.00	-3.6X
IIJ	85.60	67 (P)	59	38.00	1.8			e	01	45.00	369km		EDR	142.74	5	ePKPc	06	22.60	-4.7X
DPW	85.66	35 P	59	37.80	2.5	LNO	94.87	54	eP	00	18.50	0.2	UOSK	142.98	287	ePKP	06	26.70	-2.1X
PNT	85.76	34 iP	59	36.00	0.3			e	01	46.70	377km		ELO	143.08	6	iPKPc	06	23.90	-4.0X
	1.0s	288.00nm		6.1mb		UYO	95.29	56	e(P)	00	20.70	0.4	EAB	143.00	7	ePKPc	06	22.60	-5.7X
DAU	85.79	44 P	59	37.40	0.9	YKA	95.64	25	eP	00	19.60	-1.6		1.0s		239.00nm			
		pP	01	04.90	378km		1.0s	24.40nm			5.3mb		EBH	143.32	6	iPKPc	06	25.10	-3.2X
BJI	85.81	315 iPd	59	36.29	0.2	GTA	96.98	309	iPd	00	28.20	0.2		0.9s		195.00nm			
	1.5s	730.00nm		6.3mb			1.4s	100.00nm			5.9mb		AAE	143.47	258	ePKP	06	29.00	-1.2

		i	06 38.50		BST	151.06	9 PKP	06 40.99	0.1		1.2s	26.80nm		
		i	06 41.50		RDO	151.13	322 ePKP	06 40.00	-1.2	TMA	153.27	350 ePKPc	06 44.00	-0.4
		iPKP	08 09.60		LDF	151.19	4 ePKP	06 40.10	-1.0	BGF	153.32	360 ePKP	06 43.20	-1.0
		i	09 41.00			1.0s	36.00nm				1.0s	24.00nm		
ISR	147.89	327 ePKPc	06 40.00	3.7X	WLS	151.20	353 PKP	06 40.19	-1.0	SAL	153.45	348 PKP	06 45.00	0.6
MLR	147.95	328 ePKP	06 35.00	-1.5	CDF	151.21	354 ePKP	06 40.20	-1.1	MMK	153.45	352 ePKPc	06 45.10	0.4
MOX	148.41	349 ePKPd	06 36.00	-0.9		1.2s	14.90nm			DIX	153.50	353 ePKPc	06 45.40	0.6
	1.6s	56.00nm			KSL	151.30	310 ePKP	06 47.40	5.8X	EMS	153.56	353 ePKPc	06 53.50	8.7X
		ePKP	08 13.00		GRR	151.35	5 ePKP	06 40.40	-0.9	TCF	153.58	1 ePKP	06 43.80	-0.8
PRU	148.42	345 PKPd	06 36.10	-0.8		1.2s	41.65nm				1.0s	32.00nm		
		i	06 40.50		ECH	151.42	354 PKP	06 40.44	-1.1	LSF	153.61	2 ePKP	06 43.70	-0.9
FAM	148.45	305 ePKP	06 40.00	2.6X	AKSR	151.52	283 iPKPd	06 49.00	6.7X		1.1s	34.20nm		
ZNT	148.47	300 ePKP	06 37.00	-0.5	VITF	151.53	355 PKP	06 41.22	-0.3	MAF	153.65	0 ePKP	06 44.00	-0.7
CMP	148.55	329 ePKP	06 41.00	3.7X	FEL	151.66	352 ePKP	06 40.98	-1.0		1.4s	41.40nm		
BUC	148.63	327 ePKP	06 28.00	-9.3X	LPF	151.69	5 ePKP	06 41.00	-0.8	OHR	153.71	328 iPKP	06 43.80	-1.2
TNR	148.63	330 ePKPd	06 37.00	-0.4		1.1s	34.20nm				1.4s	192.00nm		
PSZ	148.65	337 iPKP	06 41.00	3.6X	SLE	151.70	352 ePKPc	06 41.50	-0.4			i	06 52.70	
HOF	148.68	349 iPKPc	06 37.20	-0.1	HAU	151.71	355 ePKP	06 41.00	-0.9			i	06 58.20	
		i	06 41.20			1.0s	12.00nm					i	07 07.30	
BNS	148.70	354 iPKP	06 36.60	-0.7	AGAL	151.71	283 iPKPd	06 49.00	6.4X	AGO	153.82	359 PKP	06 44.42	-0.5
		i	06 40.90		YER	151.72	313 iPKP	06 48.90	6.5X	ORX	153.86	351 PKP	06 43.95	-1.2
BUC1	148.71	327 ePKPd	06 40.00	2.5X	PTJ	151.75	340 ePKP	06 42.00	-0.1	ORO	153.87	351 PKP	06 48.80	3.7X
GPA	148.72	317 ePKP	06 36.50	-1.2	AAMD	151.77	283 iPKPd	06 50.00	7.3X	PYM	154.12	359 PKP	06 45.32	-0.1
CSS	148.98	306 ePKP	06 37.30	-1.0	SQTA	151.77	348 iPKPd	06 41.40	-0.8	LPL	154.13	353 ePKP	06 45.40	-0.2
ENN	148.99	356 ePKP	06 37.00	-0.7		0.9s	158.00nm				1.2s	13.40nm		
	1.0s	121.00nm					i	06 48.30		LSD	154.14	353 PKP	06 45.08	-0.6
		e	06 42.00				i	06 58.80		LPG	154.15	353 ePKP	06 45.40	-0.4
		e	08 15.00				i	08 06.20			1.2s	14.90nm		
UCC	149.04	358 iPKP-	06 42.00	4.2X			i	08 21.00		GRN	154.50	355 PKP	06 54.68	8.7X
		e	08 15.00				ePP	10 25.00		NPS	154.54	312 ePKP	06 55.50	9.3X
ISK	149.08	319 ePKP	06 36.00	-2.2X	MOF	151.78	354 PKP	06 41.22	-0.9	RJF	154.55	2 ePKP	06 45.40	-0.5
DEV	149.08													

10d 19h

LBFM 55.84 295 P 11 56.00 -1.4
 TNP 55.98 289 P 11 57.40 -1.0
 0.7s 9.07nm 4.9mb
 WDC 56.74 294 eP 12 08.00 4.3X
 FHC 57.28 296 e(P) 12 13.50 6.0X
 CMB 57.62 291 eP 12 11.60 1.6
 GSC 57.89 286 eP 12 15.00 3.1X
 FRI 58.08 290 eP 12 15.40 2.3
 TPC 58.43 285 eP 12 15.00 -0.6
 GLA 58.60 283 eP 12 17.00 0.1
 MHC 58.79 291 eP 12 21.50 3.3X
 SBB 58.90 287 eP 12 19.00 0.1
 RVR 59.20 286 eP 12 23.00 2.0
 PRI 59.22 290 eP 12 24.00 2.7
 BAR 59.86 284 eP 12 26.00 0.4
 MAIO 61.47 67 eP 12 37.00 0.4
 BCAA 66.43 122 iPc 13 07.90 -1.2
 0.9s 14.00nm 5.2mb
 ic 13 14.00

WMO 67.56 42 P 13 16.00 0.0
 PDCR 69.97 186 eP 13 29.90 -1.1
 QUE 70.07 65 eP 13 32.00 0.2
 BAO 73.94 195 eP 13 54.70 0.0
 GTA 75.61 36 Pd 14 03.80 -0.5
 1.0s 10.00nm 4.8mb
 SIV 76.86 208 P 14 11.00 -0.3
 MDJ 77.20 13 eP 14 15.00 2.1
 BTO 77.43 28 P 14 15.00 0.7
 CN2 77.45 16 eP 14 14.00 -0.3
 HHC 77.58 27 P 14 16.30 1.2
 SNY 79.09 18 eP 14 22.00 -1.2
 ZOBO 79.09 214 P 14 25.00 0.8
 LPB 79.33 214 (P) 14 27.00 1.7
 BJI 79.41 24 eP 14 25.00 0.0
 1.4s 13.00nm 4.7mb
 CNCB 79.55 214 eP 14 26.00 -0.7
 LZH 79.92 34 Pd 14 27.50 -0.6
 2.0s 36.00nm 5.0mb
 GKN 80.08 53 P 14 29.60 0.5
 0.7s 17.00nm 5.1mb
 KKN 80.54 52 P 14 32.20 0.6
 0.7s 28.00nm 5.4mb
 DMN 80.63 53 P 14 32.40 0.3
 0.8s 23.00nm 5.2mb
 GUN 80.69 52 P 14 33.70 1.1
 TIY 80.76 27 eP 14 33.00 0.6
 Z 18s 1.00um 5.2msz
 E 13s 0.20um
 PKI 80.79 52 P 14 33.40 0.3
 XAN 83.31 31 P 14 45.80 0.1
 SSE 89.08 22 eP 15 13.50 -0.6
 GYA 89.74 36 P 15 18.00 0.6
 WB5 141.27 19 ePKP 21 47.00 -3.0X
 WRA 141.33 19 PKP 21 53.00 2.8X
 0.3s 1.40nm
 ASPA 144.88 21 ePKPd 21 54.30 -1.9
 1.2s 19.00nm
 SPA 147.34 180 ePKP 21 59.90 0.9
 1.0s 19.50nm
 S.D. = 1.0 on 135 of 154 obs.

* AUG 10, 1990 20h 09m 37.79 ± 1.2Bs
 15.940 N ± 10.2km 119.603 E ± 17.2km
 DEPTH = 80.3 ± 18.1 km
 4.4mb (2 obs.)

LUZON, PHILIPPINE ISLANDS (249)
 BAG 1.05 63 eP 09 57.80 -0.1
 SZP 1.80 27 iPc 10 06.00 -1.5
 OCP 1.92 132 eP 10 51.50 42.3X
 PGP 2.75 152 eP 10 21.00 0.4
 CVP 2.76 50 eP 10 22.00 1.4
 eS 11 30.00
 PPR 6.19 188 eP 12 12.00 63.6X
 CHTO 19.92 281 eP 14 05.90 0.2
 LZH 24.49 328 Pd 14 51.50 0.5
 1.5s 17.00nm 4.3mb
 pP 14 57.50 21kmX
 GKN 34.45 296 P 16 00.00 -20.1X
 WB5 38.44 157 eP 16 52.60 -0.9
 e 17 58.80
 WRA 38.49 157 P 16 54.00 0.1
 0.4s 3.50nm 4.6mb
 S.D. = 1.2 on 8 of 11 obs.

AUG 10, 1990 21h 01m 22.75 ± 0.88s
 37.066 N ± 7.0km 29.614 E ± 10.0km

DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 ELL 0.40 143 iPg 01 31.70 0.8
 iSg 01 39.70
 BCK 0.87 63 ePn 01 43.30 3.7X
 KSL 0.95 181 ePn 01 40.50 -0.3
 eSn 02 01.10
 YER 1.07 274 iPn 01 44.00 1.1
 KHL 1.26 357 iPn 01 47.10 0.9
 ARG 1.47 235 ePn 01 48.00 -1.2
 eSn 02 11.70
 ALT 2.02 11 ePn 01 56.00 -1.4
 S.D. = 1.4 on 6 of 7 obs.

AUG 10, 1990 21h 11m 49.04 ± 0.22s
 6.572 N ± 4.4km 60.240 E ± 3.1km
 DEPTH = 10.0km (geophysicist)
 5.5mb (80 obs.) 5.0msz (19 obs.)
 CARLSBERG RIDGE (421)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 16S, 37C
 Centroid Location:
 Origin Time 21:11:48.4 0.9
 Lat 6.2BN 0.08 Lon 59.80E 0.05
 Dep 15.0 FIX Half-duration 2.4
 Moment Tensor: Scale 10**17 Nm
 Mrr=-1.86 0.07 Mtt= 0.98 0.09
 Mff= 0.87 0.10 Mrt= 0.00 0.00
 Mrf= 0.00 0.00 Mtf=-1.08 0.08
 Principal Axes:
 T Val= 2.01 Plg= 0 Azm=224
 N -0.16 0 134
 P -1.86 90 180
 Best Double Couple: Mo=1.9*10**17
 NP1: Strike=314 Dip=45 Slip= -90
 NP2: 134 45 -90

BOM 17.32 44 iPd 15 52.00 -0.6
 eS 19 20.00
 POO 17.81 47 iPc 16 01.40 2.6
 1.5s 172.22nm 5.0mb
 ARO 17.87 287 iP+ 16 01.80 2.3
 GBA 18.31 66 Pc 16 06.40 1.5
 1.2s 129.20nm 5.0mb
 HYB 20.88 57 ePc 16 35.50 1.4
 1.4s 250.00nm 5.4mb
 e 16 46.00
 iS 20 42.00
 AAE 21.41 278 iP 16 42.50 2.7
 BRP 21.47 336 eP 16 41.00 1.1
 1.2s 386.00nm 5.7mb
 BBU 21.65 336 eP 16 43.00 1.3
 1.0s 291.00nm 5.6mb
 DHR 21.86 335 eP 16 45.00 1.2
 RYD 22.28 326 eP 16 49.00 0.9
 MJMA 23.91 325 eP 17 07.30 3.3X
 AFIF 23.92 319 eP 17 06.70 2.5
 QUE 24.33 14 iPd 17 11.90 3.7X
 1.5s 2208.33nm 6.6mb X
 NAI 24.66 252 iPc 17 14.50 2.9X
 2.0s 247.06nm 5.5mb
 QASM 25.12 322 eP 17 18.00 2.3
 UQSK 25.63 320 eP 17 23.00 2.4
 MAIO 29.60 359 iPd 17 58.00 1.4
 eS 23 04.00
 NPA 29.93 224 eP 18 01.20 1.5
 KER 30.19 338 eP 18 03.00 1.0
 KKN 31.44 44 P 18 15.00 1.8
 DMN 31.53 46 P 18 16.20 2.1
 PKI 31.73 46 P 18 17.20 1.3
 KKN 31.77 45 P 18 17.90 1.8
 GUN 32.26 46 P 18 21.60 1.0
 PRNI 33.49 318 ePd 18 33.30 2.5
 TAB 33.80 340 eP 18 35.00 1.4
 DSI 34.04 320 eP 18 38.00 2.5
 MML 34.60 321 ePd 18 43.00 2.6
 BHL 35.46 323 P 18 50.00 2.2
 KSH 35.68 21 eP 18 51.50 1.9
 Z 16s 4.20um 5.3mszX
 N 12s 1.90um

1.4s 86.05nm 5.2mb
 CHTO 39.57 68 iP 19 23.20 0.8
 1.7s 118.90nm 5.3mb
 NST 40.11 74 eP 19 28.80 1.9
 BUL 40.89 229 iPd 19 29.20 -4.2X
 1.2s 62.50nm 5.2mb
 BBTk 41.31 327 iPd 19 38.00 1.4
 e 19 48.00
 BCAA 41.56 269 iPc 19 39.80 0.9
 0.5s 48.00nm 5.5mb
 id 20 23.00
 LOE 41.90 71 eP 19 41.50 0.0
 ALT 42.24 324 eP 19 44.00 -0.2
 BFT 43.46 221 iPd 19 54.00 -0.5
 1.3s 80.00nm 5.3mb
 WMO 44.23 29 P 20 01.00 0.7
 Z 16s 2.00um 5.1mszX
 N 16s 1.10um
 E 16s 2.00um
 S 26 38.00
 KMI 44.60 61 Pd 20 04.50 0.7
 2.0s 170.00nm 5.6mb
 Z 20s 2.70um 5.2msz
 S 26 33.00
 SS 26 44.00
 SLR 44.67 223 iPd 20 03.50 -0.7
 1.4s 136.00nm 5.7mb
 BPI 45.13 223 iPc 20 08.20 0.3
 KSR 45.70 224 iPc 20 12.00 -0.4
 1.0s 50.00nm 5.4mb
 PRY 46.00 222 iPd 20 17.00 2.2
 1.0s 50.00nm 5.5mb
 BFS 46.44 223 iPd 20 16.50 -1.7
 1.0s 40.00nm 5.4mb
 KDZ 46.65 324 iPd 20 22.00 2.5
 DIM 46.83 324 eP 20 22.00 1.1
 SEK 46.83 221 iPc 20 21.50 0.2
 1.3s 80.00nm 5.6mb
 TLB 47.14 329 eP 20 24.00 0.7
 CD2 47.36 54 eP 20 25.20 -0.2
 Z 18s 0.90um 4.8msz
 ePP 22 19.00
 eS 27 22.50
 PGB 47.93 324 eP 20 30.00 0.3
 VAY 48.15 322 iP 20 31.30 -0.1
 KKB 48.16 323 iPc 20 32.00 0.5
 BLF 48.29 221 iP 20 32.50 -0.3
 1.2s 100.00nm 5.8mb
 GTA 48.31 41 iPd 20 33.00 0.2
 1.4s 38.00nm 5.3mb
 PP 22 28.00
 GYA 48.37 60 iPd 20 33.00 -0.4
 1.6s 100.00nm 5.6mb
 N 18s 1.50um
 E 18s 1.00um
 PP 20 42.40
 VTS 48.52 324 iP 20 35.00 0.6
 VRI 48.69 329 ePc 20 37.50 2.0
 MLR 48.84 328 eP 20 38.00 1.2
 KIM 48.99 222 iPd 20 38.50 0.3
 1.3s 140.00nm 5.8mb
 OHR 49.14 321 iP 20 38.20 -0.8
 SKO 49.22 322 iP 20 39.00 -0.6
 1.5s 87.00nm 5.6mb
 Z 17s 475.00um 7.6mszX
 E 18s 0.61um
 i 20 46.00
 iPP 22 35.00
 iPPP 23 20.00
 iS 27 50.00
 iScS 30 10.00
 iSS 31 24.00
 iSSS 33 06.00
 i 36 30.00
 LR 45 28.00
 FRS 49.28 221 eP 20 41.50 1.3
 LZH 49.50 47 Pd 20 42.00 -0.1
 2.5s 110.00nm 5.4mb
 Z 20s 3.40um 5.3msz
 N 17s 1.60um
 E 17s 1.60um
 SP 20 54.00
 PP 22 37.00
 S 27 50.00
 QIZ 49.76 71 P 20 44.50 0.4
 N 17s 1.20um
 E 17s 1.30um

WIN	51.19	234	iPc	20	56.50	1.4	VDL	58.91	321	ePc	21	50.80	-0.2	MAF	63.21	319	eP	22	19.20	-0.6
	1.0s	80.00nm			5.6mb		TMA	59.12	321	ePc	21	51.80	-0.6		1.3s	37.90nm			5.4mb	
BZS	51.26	326	eP	20	54.50	-0.6	SBF	59.14	318	eP	21	51.60	-0.8	WIT	63.36	327	eP	22	21.50	0.9
BEO	51.45	324	eP	20	55.50	-1.0		1.4s	47.90nm			5.4mb		DOU	63.38	324	Pc	22	21.10	0.3
BMR	51.55	329	ePc	21	01.00	3.8X	CLL	59.21	328	iPd	21	52.00	-0.6			S		30	57.00	
TIM	51.55	326	ePc	20	58.70	1.4		2.5s	145.00nm			5.7mb		TCF	63.47	319	eP	22	20.70	-0.9
MGR	52.08	317	P	21	01.00	-0.4			e		22	35.00			1.4s	19.60nm			5.1mb	
XAN	52.55	52	Pd	21	04.00	-1.1	HOF	59.31	326	iPc	21	53.40	0.0	RJF	63.60	318	eP	22	22.20	-0.3
	N	16s	1.00um				SAX	59.33	322	ePd	21	53.10	-0.8		1.2s	41.65nm			5.5mb	
			S	28	34.00		GRF	59.36	325	iPd	21	52.40	-1.4	Z	21s	0.22um			4.3MsZ	
GZH	53.59	66	P	21	11.50	-1.3		1.4s	61.00nm			5.5mb		LPO	63.63	317	eP	22	22.40	-0.2
	Z	18s	1.40um			5.1MsZ								1.4s	69.70nm			5.7mb		
SPC	54.19	329	eP	21	16.30	-0.8	Z	22s	0.30um			4.4MsZ		EPF	63.73	315	eP	22	22.30	-1.1
AZI	54.36	318	P	21	19.00	0.8			e	21	59.40				1.2s	14.90nm			5.1mb	
SRO	54.39	326	iP	21	18.30	-0.1	LLS	59.37	322	ePd	21	53.20	-0.9	SNF	63.73	324	P	22	23.60	0.5
ZAG	54.63	323	eP	21	19.50	-0.6	DOI	59.52	318	P	21	53.00	-2.0	UCC	63.80	324	P	22	24.00	0.4
PTJ	54.68	323	eP	21	18.90	-1.8	FRF	59.55	317	eP	21	54.60	-0.6	HFS	63.87	336	eP	22	22.70	-1.2
KRA	54.88	329	eP	21	20.40	-1.5		1.2s	29.75nm			5.3mb			1.2s	47.70nm			5.6mb	
			e	22	11.00		LMR	59.56	317	eP	21	54.50	-0.7	Z	16s	0.47um			4.8MsZ	
	Z	22s	1.20um			4.9MsZ		1.3s	57.75nm			5.5mb				LR	46	02.00		
	E	22s	1.40um				MOX	59.62	326	eP	21	55.00	-0.5	LSF	63.90	319	eP	22	23.80	-0.6
			e	21	27.50			2.4s	96.00nm			5.5mb			1.6s	74.65nm			5.6mb	
VBY	54.90	323	ePd	21	22.40	0.2	Z	32s	0.90um			4.7MsZ		LFF	64.01	317	eP	22	25.20	0.1
ZST	55.28	326	eP	21	24.60	-0.3	MMK	59.67	320	ePc	21	56.20	-0.1		1.4s	95.85nm			5.8mb	
SOP	55.30	325	eP	21	26.00	1.0	LRG	59.71	317	eP	21	55.70	-0.5	KIC	64.52	274	P	22	30.14	1.1
CEY	55.52	322	eP	21	26.00	-0.7		1.0s	16.00nm			5.1mb			1.4s	181.00nm			6.1mb	
LJU	55.61	323	ePd	21	27.00	-0.3	Z	20s	0.20um											

GRG 0.38 287 eSg 30 14.00
ePgc 30 11.20 0.0
eSg 30 16.90
VAY 0.53 334 iPg 30 14.00 -0.1
iSg 30 21.40
SRS 0.60 63 ePg 30 15.10 -0.4
eSg 30 23.40
LIT 0.80 202 ePg 30 18.90 -0.1
eSg 30 30.40
OUR 0.98 121 ePg 30 22.40 0.4
eSg 30 36.60
S.D. = 0.3 on 7 of 7 obs.

* AUG 11, 1990 03h 34m 08.70 ± 0.60s
0.126 S ± 7.2km 78.519 W ± 10.8km
DEPTH = 14.3 ± 4.7 km
3.8mb (2 obs.)
ECUADOR (107)

OUR 0.05 192 iPd 34 11.80 -0.1
YANA 0.05 282 iP 34 12.00 -0.1
OTO 0.08 188 iPd 34 11.60 -0.6
GGP 0.09 238 iP 34 13.30 0.8
COTA 0.49 22 iPd 34 16.00 -2.9
VC1 0.52 167 iP+ 34 20.40 0.9
PURC 3.25 42 eP 35 05.63 4.9X
SILC 3.54 38 eP 35 07.76 3.0X
SALC 3.58 31 eP 35 06.52 1.5
ANCC 3.98 25 eP 35 10.92 0.4
DIAC 4.11 34 eP 35 14.80 2.2
CLMC 4.43 26 eP 35 17.57 0.4
ZOBO 19.04 148 P 38 40.00 6.5X
SIV 23.34 133 P 39 16.00 -1.6
ALO 43.57 326 eP 42 15.00 0.8
0.8s 1.49nm 3.8mb
e 42 21.00
ANMO 43.57 326 (P) 42 14.20 0.0
PNT 60.56 330 eP 44 21.00 0.1
YKA 68.08 343 eP 45 07.90 -1.9
0.6s 0.50nm 3.9mb
S.D. = 1.5 on 15 of 18 obs.

? AUG 11, 1990 04h 04m 55.13 ± 1.06s
0.017 S ± 7.6km 78.411 W ± 14.8km
DEPTH = 5.0km (geophysicist)
ECUADOR (107)

OUR 0.19 218 iPd 04 59.00 -0.2
iS 05 01.70
GGP 0.24 230 iP 05 00.40 0.2
COTA 0.36 12 P 05 02.40 0.0
VC1 0.62 179 P 05 07.60 0.1
iS 05 16.60
S.D. = 0.3 on 4 of 4 obs.

% AUG 11, 1990 04h 07m 47.47 ± 2.53s
43.984 N ± 14.0km 8.395 E ± 13.6km
DEPTH = 10.0km (geophysicist)
CORSICA (380)

ML 2.0 (GEN).
FIN 0.26 329 P 07 53.39 0.4
S 07 56.77
IMI 0.37 259 P 07 55.13 0.0
S 08 00.36
ROB 0.49 310 P 07 56.98 -0.4
S 08 03.44
PCP 0.57 11 P 07 58.93 -0.1
S 08 06.51
ENR 0.74 289 P 08 02.11 0.0
S 08 11.65
STV 0.81 289 P 08 03.47 0.2
S 08 13.88
PZZ 1.07 300 P 08 07.63 0.0
S.D. = 0.3 on 7 of 7 obs.

* AUG 11, 1990 04h 20m 36.59s
59.942 N 153.346 W
DEPTH = 134.4km
2.9mb (1 obs.)
SOUTHERN ALASKA (2)
<AGS-P>.

PDB 0.45 250 iP 20 54.93 -1.2
iS 21 08.71
RED 0.56 31 eP 20 55.97 -0.9
iS 21 10.93

AUE 0.59 181 iP 20 56.06 -0.8
iS 21 10.83
AUI 0.61 184 eP 20 56.22 -0.8
eS 21 11.56
RDT 0.79 36 eP 20 57.69 -0.8
eS 21 12.87
HOM 0.91 108 eP 20 58.76 -0.5
eS 21 15.80
XLV 0.96 120 eP 20 58.80 -1.0
eS 21 16.27
CDD 1.03 189 eP 20 59.52 -0.9
iS 21 16.27
NNL 1.04 84 iP 21 00.70 0.2
CNPM 1.15 110 iP 21 00.77 -0.8
iS 21 18.68
NKA 1.32 52 eP 21 04.66 1.3
CKL 1.35 21 iP 21 03.46 -0.4
eS 21 23.93
SPU 1.40 27 iP 21 03.65 -0.6
BGL 1.41 19 iP 21 04.20 -0.2
SHU 1.41 158 eP 21 03.58 -0.8
eS 21 23.93
CRP 1.45 23 eP 21 04.73 -0.3
CGLM 1.52 25 iP 21 05.27 -0.4
NCG 1.58 21 eP 21 06.05 -0.3
SVW 1.62 317 iP 21 05.57 -1.2
SLKM 1.66 69 eP 21 06.11 -1.1
SEW 1.96 84 eP 21 09.65 -1.1
SUA 1.99 39 eP 21 10.87 -0.4
SKT 2.23 23 iP 21 13.48 -0.6
PMS 2.28 53 eP 21 13.62 -1.1
PWA 2.41 43 eP 21 16.44 0.1
PLRM 2.65 50 eP 21 17.71 -1.6
GHO 2.84 48 eP 21 19.96 -2.0
CUT 2.89 30 eP 21 22.13 -0.3
SML 3.08 50 eP 21 23.12 -2.0
SCM 3.50 55 eP 21 28.92 -1.7
VZW 3.54 69 eP 21 28.94 -2.2
VLZ 3.67 68 eP 21 30.48 -2.2
KLU 3.97 64 eP 21 34.61 -2.2
TOA 4.11 55 eP 21 37.52 -1.2
MCK 4.34 27 eP 21 40.80 -1.0
GLB 4.92 68 eP 21 47.88 -1.8
WRH 5.17 26 eP 21 51.03 -1.9
CCB 5.38 26 eP 21 53.68 -2.1
HDA 5.39 31 eP 21 53.95 -1.9
BALM 5.55 74 eP 21 57.31 -0.9
FBA 5.60 25 eP 21 57.01 -1.8
GLM 5.77 26 eP 21 59.24 -1.9
YKA 18.63 65 eP 24 44.20 -1.8
0.7s 0.50nm 2.9mb
43 obs. associated

? AUG 11, 1990 04h 55m 13.51 ± 1.51s
1.372 N ± 11.5km 123.172 E ± 32.6km
DEPTH = 33.0km (normol)
4.4mb (2 obs.)
MINAHASSA PENINSULA (265)

DAV 6.16 23 eP 56 44.50 -0.2
W85 23.80 153 eP 00 23.80 -0.6
eS 04 22.00
WRA 23.85 153 Pd 00 24.80 -0.1
0.6s 8.10nm 4.4mb
NANU 24.93 197 eP 00 35.00 -0.3
ASPA 26.99 158 eP 00 54.10 -0.3
1.0s 8.00nm 4.3mb
Z 16s 0.47um 4.1mszX
LR 14 10.60
OIS 27.09 144 iPc 00 54.00 -1.4
BWA 42.77 149 eP 03 11.80 2.0
CAN 43.77 149 eP 03 18.60 0.8
S.D. = 1.2 on 8 of 8 obs.

AUG 11, 1990 04h 55m 38.75 ± 1.34s
28.403 N ± 9.2km 127.967 E ± 6.7km
DEPTH = 23.9 ± 10.0 km
4.7mb (12 obs.) 4.4msz (1 obs.)
EAST CHINA SEA (234)

KAGJ 3.76 42 eP 56 35.10 -1.5
KUMJ 4.80 30 eP 56 51.70 0.3
SHNJ 6.31 24 eP 57 10.90 -1.7
SSE 6.48 296 Pd 57 13.50 -1.5
0.5s 11.00nm 5.0mb
Z 16s 2.20um 4.3msz
N 11s 5.20um

SP 57 21.90
S 58 32.00
ANP 6.59 242 eP 57 18.00 1.2
SHK 7.31 32 eP 57 28.50 1.7
NJ2 8.68 297 eP 57 44.20 -1.6
Z 10s 1.70um
N 10s 4.80um
MAT 11.85 44 eP 58 30.00 0.7
1.0s 16.00nm 5.2mb X
WHN 12.06 283 eP 58 31.00 -1.0
Z 12s 2.40um
N 12s 4.62um
E 12s 3.04um
BAG 13.74 211 eP 58 50.00 -4.7X
SNY 13.86 346 eP 58 56.00 0.1
Z 14s 3.90um
E 10s 2.50um
PP 59 04.00
SP 59 10.30
BJI 15.14 323 eP 59 13.50 0.8
1.5s 24.00nm 4.3mb
Z 16s 2.04um 3.6msz
N 11s 1.38um
E 12s 1.01um
CN2 15.50 353 eP 59 18.50 1.2
1.0s 100.00nm 5.0mb
Z 12s 4.50um
N 11s 3.50um
E 11s 0.50um
SP 59 25.00
TIY 15.98 309 eP 59 28.40 4.8X
N 12s 4.10um
MDJ 16.23 4 iPc 59 31.50 4.7X
Z 12s 1.50um
N 10s 1.50um
E 10s 1.10um
PP 59 35.00
XAN 17.23 294 eP 59 39.10 -0.3
1.5s 100.00nm 4.7mb
N 11s 3.00um
HHC 18.30 317 eP 59 54.60 1.8
Z 14s 3.20um
N 13s 1.50um
E 12s 1.80um
SP 00 04.60
GYA 19.01 269 P 00 03.20 1.7
Z 14s 1.50um
N 10s 2.00um
E 10s 2.20um
OIZ 19.02 245 eP 00 03.00 1.5
N 11s 1.10um
E 11s 1.00um
BTO 19.11 314 eP 00 04.00 1.4
N 12s 1.70um
E 12s 1.10um
SP 00 11.00
CD2 21.18 283 eP 00 24.00 -0.8
Z 11s 2.20um 4.8mszX
GUMO 21.55 130 eP 00 36.00 7.5X
eS 04 36.00
LZH 21.76 297 eP 00 30.00 -0.7
2.0s 43.00nm 4.5mb
Z 15s 1.80um 4.6mszX
E 13s 0.30um
PP 00 36.00
SP 00 40.00
eS 04 30.00
KMI 22.75 268 Pc 00 42.00 1.3
2.5s 120.00nm 5.0mb
Z 13s 1.80um 4.7mszX
PP 00 47.50
GTA 25.72 303 Pd 01 08.20 -0.8
0.8s 20.00nm 4.8mb
Z 14s 1.80um 4.8mszX
E 10s 1.00um
SS 05 46.00
CHTD 28.19 257 P 01 29.00 -2.7
WMO 35.61 307 P 02 36.40 -0.2
Z 20s 0.70um 4.4msz
N 14s 1.10um
S 08 14.00
WRA 48.46 172 Pc 04 21.00 -0.4
1.0s 4.80nm 4.5mb
FBA 62.24 29 P 06 00.30 -0.3
INK 67.00 24 eP 06 31.00 -0.4
MBC 67.78 14 eP 06 37.00 0.8
1.1s 5.00nm 4.6mb

11d 05h

SUF 70.32 331 eP 06 56.00 4.0X
 YKA 76.66 25 eP 07 27.50 -1.5
 1.1s 4.30nm 4.4mb
 NB2 77.27 334 P 07 35.30 2.8X
 1.0s 1.80nm 4.1mb
 SES 85.80 33 eP 08 21.00 3.6X
 FFC 86.76 26 eP 08 21.00 -1.0
 1.2s 21.00nm 5.2mb
 CMB 88.07 47 eP 08 32.00 3.3X
 PRS 88.39 49 eP 08 33.50 3.3X
 KVN 88.93 45 P 08 36.40 3.4X
 S.D. = 1.3 on 29 of 39 obs.

? AUG 11, 1990 05h 15m 21.35 ± 3.07s
 34.261 N ± 24.7km 22.352 E ± 19.4km
 DEPTH = 33.0km (normol)
 3.6mb (1 obs.)
 MEDITERRANEAN SEA (400)
 ML 3.8 (ATH).

VAM 1.90 53 ePn 15 50.50 -1.6
 VLI 2.50 11 ePn 16 01.10 0.6
 NPS 2.86 69 ePn 16 06.50 0.8
 ITM 2.93 353 ePb 16 17.20 10.5X
 APE 3.81 42 ePb 16 20.60 1.4
 ATH 3.86 16 ePn 16 19.00 -0.9
 KAP 4.17 71 ePn 16 25.70 1.5
 EVR 4.67 355 ePn 16 34.40 3.0X
 ARG 5.11 66 ePn 16 35.60 -2.0
 OHR 6.95 350 ePn 17 03.70 0.2
 VAY 7.05 1 ePn 17 07.00 2.1
 SKO 7.73 355 ePn 17 12.00 -2.4
 DSI 11.27 100 e(P) 18 03.00 -0.1
 eS 19 54.00
 PRNI 11.39 107 e(P) 18 09.00 4.2X
 KHC 16.22 339 P 19 16.00 7.8X
 Z 14s 1.00um
 E 14s 0.90um
 e 33 05.00
 eSg 33 58.80
 PRU 16.73 342 eP 19 20.00 5.3X
 Z 16s 1.00um
 N 14s 0.50um
 E 14s 0.70um
 eSg 34 30.00
 HFS 26.50 350 eP 20 57.50 0.3
 0.4s 0.70nm 3.6mb
 S.D. = 1.6 on 12 of 17 obs.

% AUG 11, 1990 05h 22m 20.61 ± 0.62s
 60.901 N ± 5.3km 5.835 E ± 5.7km
 DEPTH = 5.0km (geophysicist)
 SOUTHERN NORWAY (535)
 MD 1.7 (BER).

HYA 0.32 33 iP 22 27.20 0.2
 ASK 0.52 217 eP 22 30.89 -0.2
 eS 22 37.74
 SUE 0.55 287 eP 22 31.52 0.0
 eS 22 39.33
 ODD1 1.07 158 eP 22 40.60 -0.6
 BLS1 1.59 161 eP 22 50.27 0.6
 eSg 23 12.32
 BLS2 1.70 161 eP 22 51.95 0.7
 eSg 23 14.12
 KMY 1.72 190 eP 22 51.20 -0.1
 eSg 23 14.84
 NRA0 2.80 91 Pn 23 06.30 -0.6
 Lg 23 48.30
 S.D. = 0.6 on 8 of 8 obs.

AUG 11, 1990 05h 28m 31.67 ± 0.78s
 26.440 S ± 6.7km 27.329 E ± 7.8km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 mbLg 3.1 (BUL). ML 2.9 (PRE).

PRY 0.50 165 eP 28 43.00 1.2
 S 28 48.00
 BPI 0.68 67 iPd 28 44.60 -0.8
 KSR 0.69 326 iPc 28 46.50 1.0
 EVA 1.57 93 eP 29 28.00 27.6X
 S 29 45.00
 SEK 1.89 172 eP 29 06.60 1.5
 S 29 30.00
 BFT 2.55 74 eP 29 14.50 -0.1
 S 29 43.50

BLF 2.84 201 eP 29 17.50 -1.2
 KIM 3.23 224 eP 29 23.90 -0.2
 S 30 01.50
 FRS 3.74 208 eP 29 30.00 -1.3
 BUL 6.38 11 ePn 30 01.40 -7.4X
 iSn 31 11.30
 iSg 31 42.70
 CIR 6.66 37 ePn 30 07.00 -5.7X
 iSn 31 18.00
 iSg 31 55.00
 KRI 9.80 13 ePn 30 48.00 -8.4X
 iSn 32 32.00
 iSg 33 29.00
 S.D. = 1.3 on 8 of 12 obs.

AUG 11, 1990 05h 31m 46.82 ± 0.29s
 47.298 N ± 2.8km 7.956 E ± 2.9km
 DEPTH = 10.0km (geophysicist)
 SWITZERLAND (544)
 ML 3.3 (VIE). 3.1 (LDG). MD 2.6 (STR).

BBS 0.35 299 Pg 31 55.05 1.1
 Sg 32 00.21
 ZLA 0.35 58 iPc 31 54.10 0.1
 FEL 0.58 4 ePg 31 56.98 0.3
 SLE 0.59 38 iPc 31 58.80 -0.1
 LOMF 0.77 274 Pg 32 02.56 0.7
 Sg 32 12.91
 MOF 0.79 315 Pg 32 02.99 0.8
 Sg 32 13.74
 LLS 0.83 121 ePd 32 02.50 -0.5
 SAX 0.95 92 ePc 32 05.10 0.0
 BSF 0.95 305 Pn 32 04.50 -0.5
 Pg 32 06.00
 Sg 32 18.50

ECH 1.06 330 Pn 32 06.79 -0.1
 Pg 32 07.81
 Sg 32 22.20

WLS 1.19 340 Pn 32 08.48 -0.5
 Sg 32 26.10

CDF 1.21 338 Pn 32 08.70 -0.6
 Pg 32 10.10
 Sg 32 26.30

MMK 1.25 180 ePc 32 10.30 0.1
 DIX 1.27 197 ePd 32 11.00 0.3
 HAU 1.30 304 Pn 32 10.00 -0.9
 Pg 32 12.20
 Sg 32 29.00

VDL 1.32 127 ePd 32 11.10 -0.2
 TMA 1.35 152 eP 32 11.10 -0.7
 VITF 1.62 305 Pn 32 15.73 0.3
 Pg 32 18.25
 Sg 32 39.11

ORO 1.67 179 P 32 18.10 1.7
 eSg 32 39.20

GWf 1.70 353 Pn 32 16.74 0.1
 Pg 32 20.21
 Sg 32 42.14

MDI 1.94 141 P 32 27.00 6.8X
 LPL 1.97 206 Pg 32 23.60 2.8X
 Sg 32 49.40

LPG 1.98 205 Pg 32 23.90 2.8X
 Sg 32 50.50

SQTA 2.22 91 iPnc 32 25.20 0.9
 iPg 32 28.00
 iSn 32 52.90
 iSg 32 56.60

BNI 2.42 202 P 32 32.20 5.1X
 eSn 33 02.00

LBF 2.73 265 Pn 32 31.00 -0.6
 Pg 32 38.80
 Sg 33 14.10

LOR 2.79 271 Pg 32 39.60 7.3X
 Sg 33 14.80

SMF 2.89 258 Pg 32 41.40 7.6X
 Sg 33 17.70
 SSF 3.04 267 Pg 32 44.80 8.9X
 Sg 33 23.40

AVF 3.19 263 Pg 32 47.40 9.5X
 Sg 33 28.00

GRF 3.23 41 e(Pg) 32 48.00 9.4X
 eSg 33 30.70
 SBF 3.45 186 Pn 32 40.60 -1.2
 Pg 32 54.40
 Sg 33 41.60

MAF 3.86 256 Pg 32 59.40 11.9X

Sg 33 49.80
 TCF 4.07 258 Pn 32 50.00 -0.5
 Sg 33 57.00
 CAF 4.73 242 Pg 33 15.20 15.2X
 S.D. = 0.7 on 24 of 35 obs.

AUG 11, 1990 05h 56m 56.63 ± 0.78s
 51.567 N ± 6.0km 6.828 E ± 8.7km
 DEPTH = 10.0km (geophysicist)

GERMANY (543)
 ML 2.2 (BNS).

WTS 0.43 358 iPg 57 05.00 -0.4
 BNS 0.64 160 iPd 57 09.20 -0.3
 0.5s 109.00nm
 iS 57 18.60

KLL 0.98 200 iPc 57 14.50 -0.7
 0.2s *****nm
 iS 57 29.40

ENN 0.98 216 iPg 57 15.30 0.0
 0.3s 25.00nm
 eSg 57 28.50

MEM 1.09 209 iPc 57 16.40 -0.7
 S 57 31.40

TNS 1.69 142 iPnd 57 27.80 1.4
 eSn 57 50.10

ABH 1.75 165 ePn 57 27.28 0.1
 RUP 1.87 175 ePn 57 28.36 -0.7
 DOU 2.04 225 P 57 33.10 1.7
 iS 57 55.80

TOD 2.33 147 ePn 57 35.30 -0.4
 S.D. = 1.0 on 10 of 10 obs.

AUG 11, 1990 06h 09m 38.58 ± 0.63s
 18.968 N ± 9.0km 103.478 W ± 6.9km
 DEPTH = 56.8km (3 depth phases)
 4.5mb (11 obs.)

NEAR COAST OF MICHIOACAN, MEXICO (56)
 Felt at Ciudad Guzman, Colima
 and Mexico City.

MRX 2.28 71 iP 10 17.25 2.8
 iS 10 52.50

CRX 3.62 82 eP 10 36.00 2.3
 IJ 3.62 77 iP 10 35.50 1.6
 iS 11 27.50

III 3.85 98 eP 10 38.50 1.6
 iS 11 33.00

ACX 4.03 121 eP 10 39.00 -0.2
 iS 11 32.00

UNM 4.08 84 eP 10 43.50 3.4X
 iS 11 40.00

PPM 4.59 88 eP 10 50.50 2.9
 IIT 4.89 89 (P) 10 39.50 -12.2X

LVVM 6.68 82 (P) 11 25.50 9.1X
 EVV 7.72 92 (P) 12 01.00 30.1X

ALO 16.13 351 ePc 13 25.70 2.4
 1.0s 22.00nm 4.2mb
 e 13 41.20

ANMO 16.13 351 P 13 26.40 3.1X
 1.6s 75.00nm 4.6mb
 MEO 16.34 14 e(P) 13 25.50 -0.2

UYO 17.14 26 iPc 13 36.00 0.3
 GLA 17.32 326 eP 13 39.00 1.0

SIO 17.87 19 eP 13 44.80 0.0
 e 13 58.70

BAR 18.07 322 eP 13 55.00 7.7X
 TUL 18.19 20 eP 13 48.00 -0.7
 0.7s 11.70nm 4.2mb
 i 14 02.40

LNO 18.19 20 eP 13 48.00 -0.6
 e 14 02.40

TPC 18.78 326 eP 14 10.00 14.0X
 RVR 19.43 323 eP 14 03.00 -0.1

OLY 19.60 30 P 14 03.40 -1.5
 MWC 19.98 322 eP 14 10.00 0.7
 GSC 20.10 327 eP 14 10.00 -0.3

SBB 20.19 324 eP 14 10.00 -1.2
 POW 20.26 30 P 14 09.40 -2.4
 GOL 20.73 356 P 14 16.50 -0.5
 0.9s 5.68nm 3.9mb
 MSU 20.89 341 P 14 18.50 -0.1
 CLC 20.91 326 eP 14 34.00 15.4X
 ABL 21.10 322 P 14 23.70 2.9
 BCH 21.85 321 P 14 30.50 2.4
 FVM 22.10 28 P 14 28.90 -1.6
 ELC 22.11 31 P 14 29.00 -1.5

DAU 22.39 344 P 14 34.10 0.4
 PRI 22.85 322 eP 14 40.20 2.3
 RSCP 22.91 40 P 14 39.60 1.1
 0.8s 48.08nm 5.0mb
 FRI 22.91 325 eP 14 39.70 1.3
 PRS 23.39 321 eP 14 44.50 1.4
 KVN 23.69 331 P 14 47.60 1.5
 pP 15 02.40 63km
 CMB 24.04 326 eP 14 50.40 0.9
 PRM 24.08 47 P 14 48.30 -1.5
 GCC 24.24 322 eP 14 52.20 1.0
 MHC 24.24 323 eP 14 53.00 1.5
 BW06 24.29 349 P 14 52.00 0.0
 JSC 24.96 48 P 14 56.40 -1.8
 BRK 24.97 323 eP 15 00.20 2.0
 FFC 35.71 1 eP 16 46.00 12.6X
 0.7s 6.00nm

YKA 44.17 353 eP 17 40.40 -2.8
 0.6s 0.60nm 3.5mb
 SCH 45.36 29 eP 17 51.00 -1.8
 ZOBO 49.35 133 P 18 25.00 -0.2
 LPB 49.55 133 P 18 26.00 -0.5
 CNCB 49.83 133 P 18 28.20 -0.6
 INK 52.81 346 eP 18 48.00 -2.0
 PMR 53.12 335 P 18 50.70 -1.7
 0.7s 10.90nm 5.0mb

FBA 54.48 339 P 19 00.60 -1.7
 1.0s 7.50nm 4.7mb
 TTA 56.59 334 P 19 16.10 -1.6
 0.8s 12.07nm 5.0mb

IMA 57.17 338 P 19 19.90 -2.0
 0.8s 1.72nm 4.2mb
 MBC 57.89 356 eP 19 24.50 -2.0
 0.7s 3.00nm 4.5mb

BAO 64.53 118 eP 19 39.50 56km
 PDCR 70.71 111 eP 20 11.00 -0.5
 21 11.90 82kmX
 LKO 94.30 78 P 23 06.66 13.0X
 0.9s 11.50nm

WB5 125.68 259 ePKP 28 35.00 -1.1
 WRA 125.71 259 PKPc 28 35.10 -1.1
 0.5s 1.50nm

S.D. = 1.6 on 53 of 63 obs.

% AUG 11, 1990 06h 34m 54.96±0.87s
 0.036 S ± 7.3km 78.451 W ± 13.0km
 DEPTH = 10.0km (geophysicist)

ECUADOR (107)

YANA 0.14 237 iPd 34 58.40 -0.3
 OUR 0.16 210 iPd 34 59.00 0.2
 QTO 0.18 206 iPd 34 58.60 -0.7
 GGP 0.20 226 iPd 35 00.20 0.5
 S 35 02.80

COTA 0.39 17 P 35 03.00 0.0
 S 35 09.20
 VC1 0.60 175 iP+ 35 07.60 0.1
 S.D. = 0.5 on 6 of 6 obs.

AUG 11, 1990 06h 43m 09.60±0.33s
 40.890 N ± 3.4km 22.668 E ± 3.1km
 DEPTH = 8.5 ± 2.8 km
 3.6mb (1 obs.)

GREECE (364)

ML 3.8 (SKO). 3.7 (THE). MD 3.5
 (ATH). Felt at Kilikis and
 Thessaloniki.

GRG 0.21 288 iPg 43 15.00 0.9
 iSg 43 19.60
 KNT 0.32 33 iPg 43 16.20 0.0
 eSg 43 20.60

THE 0.34 139 iPg 43 15.50 -1.1
 eSg 43 20.20
 VAY 0.44 350 iPg 43 19.00 0.6
 iSg 43 26.40

SRS 0.74 72 iPg 43 22.90 -1.3
 eSg 43 33.70
 PLG 0.78 131 ePg 43 23.10 -1.9
 LIT 0.80 190 iPg 43 24.80 -0.5
 eSg 43 36.30

KZN 0.90 230 ePg 43 26.70 -0.3
 FNA 0.99 264 ePb 43 28.60 0.1
 KKB 1.02 18 iPg 43 29.00 -0.1
 iSg 43 43.00

MMB 1.06 49 ePg 43 29.00 -0.8
 iSg 43 43.00
 OUR 1.14 119 ePb 43 30.00 -1.1
 PAIG 1.23 141 ePb 43 32.10 -0.6
 eSb 43 49.00

SKO 1.42 320 iPnc 43 35.80 0.1
 0.4s 890.00nm
 e 43 41.30
 e 43 46.40
 iSn 43 56.00
 i 43 56.80
 i 43 59.20
 i 44 01.10
 LR 44 09.00

OHR 1.43 279 iPnd 43 36.90 1.0
 iSn 43 57.50
 NEO 1.64 165 ePb 43 57.80 -1.0
 VTS 1.75 13 iPc 43 40.00 -0.5
 iS 44 01.00

AGG 1.88 188 ePn 43 42.90 0.6
 PLD 1.95 51 iPd 43 44.00 0.7
 iS 44 13.00
 PGB 2.00 34 iP 43 43.00 -1.1
 iSg 44 13.00

EVR 2.08 199 ePg 43 49.20 4.0X
 RDO 2.19 82 ePn 43 47.00 0.3
 KDZ 2.21 69 iPd 43 46.00 -1.0
 iS 44 12.00

IGT 2.24 234 ePn 43 48.40 0.9
 DIM 2.45 61 iP 43 53.00 2.6
 iSg 44 28.00
 KEK 2.49 243 ePb 43 55.70 4.7X
 ALN 2.56 89 ePnc 43 52.30 0.3
 eSn 44 24.00

PVY 2.64 311 ePn 43 54.00 0.7
 eSn 44 37.00
 TTG 2.98 302 ePn 43 58.50 0.6
 eSn 44 45.00

EZN 2.99 110 iPn 44 04.20 6.1X
 PVL 3.06 40 eP 43 58.00 -1.0
 VLS 3.15 211 ePg 44 11.50 11.1X
 PRK 3.22 120 ePb 44 03.40 2.1
 JMB 3.33 60 iPd 44 03.00 0.1
 iS 44 55.00

NKY 3.35 306 ePn 43 58.00 -5.3X
 eSn 44 45.00
 ITM 3.75 189 ePb 44 13.00 4.0X
 EDC 3.99 96 ePn 44 24.00 11.7X
 VLI 4.17 177 ePn 44 17.00 2.1
 BZS 4.79 351 ePc 44 21.00 -2.6
 ISK 4.84 86 ePn 44 38.00 13.6X
 PSN 4.95 54 eP 44 26.00 0.1
 TDS 5.00 258 P 44 22.00 -4.6X
 ISR 5.11 33 eP 44 30.00 1.8
 MLR 5.18 26 eP 44 30.00 0.6
 IZI 5.21 94 ePn 44 32.00 2.3
 MGR 5.47 264 P 44 33.00 -0.4
 eSn 45 42.00

CVO 5.55 26 eP 44 36.00 1.5
 SGO 5.60 269 P 44 35.50 0.4
 DUL 6.23 280 P 44 43.00 -1.1
 VOY 8.19 312 ePnd 45 10.70 -0.9
 eSn 46 43.50

FVI 9.15 312 P 45 24.00 -0.7
 KHC 10.45 325 eP 45 41.80 -0.8
 YKA 71.40 341 eP 54 30.30 -1.3
 0.4s 0.20nm 3.6mb

S.D. = 1.2 on 44 of 53 obs.

AUG 11, 1990 06h 45m 46.46±0.31s
 40.874 N ± 2.9km 22.709 E ± 3.0km
 DEPTH = 4.4 ± 3.2 km

GREECE (364)

ML 3.6 (SKO). MD 3.4 (THE). 3.3
 (ATH). Felt at Kilikis and
 Thessaloniki.

GRG 0.25 290 iPg 45 52.10 0.6
 eSg 45 56.30
 THE 0.31 141 iPg 45 52.50 -0.2
 iSg 45 57.50

KNT 0.32 26 iPg 45 53.20 0.3
 eSg 45 57.60
 VAY 0.46 347 iPg 45 55.60 0.0
 iSg 46 01.40

SRS 0.71 70 iPg 45 59.80 -0.9
 eSg 46 10.70

PLG 0.75 131 ePg 46 00.40 -1.1
 LIT 0.79 192 iPg 46 01.70 -0.6
 eSg 46 12.40
 KZN 0.91 232 ePg 46 03.80 -0.7
 FNA 1.02 265 ePb 46 06.20 0.0
 KKB 1.03 16 iPg 46 05.00 -1.5
 iSg 46 20.00

MMB 1.05 47 iPd 46 06.00 -0.8
 iSg 46 20.00
 OUR 1.11 119 ePb 46 07.70 -0.1
 PAIG 1.20 142 ePb 46 09.60 0.2
 SKO 1.45 319 iPnc 46 13.00 -0.5
 iSn 46 31.80
 i 46 35.20

OHR 1.46 280 iPnd 46 13.90 0.2
 iSn 46 34.50
 NEO 1.61 166 ePb 46 14.90 -0.9
 VTS 1.76 12 iPd 46 18.00 0.1
 iSg 46 48.00

AGG 1.87 189 ePn 46 20.10 0.6
 PLD 1.94 50 iP 46 21.00 0.6
 iS 46 51.00
 PGB 2.00 33 eP 46 20.00 -1.4
 iSg 46 51.00

EVR 2.07 200 ePg 46 27.50 5.0X
 RDO 2.16 82 ePn 46 25.50 1.9
 KDZ 2.18 68 iPd 46 25.00 1.0
 iS 46 54.00

IGT 2.26 234 ePn 46 25.60 0.5
 eSn 46 55.20
 DIM 2.43 60 eP 46 32.00 4.5X
 iSg 47 07.00

KEK 2.51 243 ePb 46 31.70 3.0X
 ALN 2.53 88 ePnc 46 29.70 0.8
 eSn 47 01.80
 JMB 3.31 60 eP 46 40.00 0.0
 iSg 47 35.00

S.D. = 0.8 on 25 of 28 obs.

% AUG 11, 1990 07h 11m 41.26±0.95s
 37.020 N ± 8.5km 29.505 E ± 7.6km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

ELL 0.42 130 iPg 11 49.70 -0.2
 iSg 11 58.20
 BCK 0.97 63 iPn 12 00.40 0.6
 YER 0.98 277 ePn 12 00.20 0.2
 KHL 1.30 1 iPn 12 05.60 0.2
 ALT 2.09 13 ePn 12 16.00 -0.8

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

% AUG 11, 1990 07h 19m 57.30±2.56s
 11.185 N ± 22.6km 61.438 W ± 17.7km
 DEPTH = 33.0km (normol)

WINDWARD ISLANDS (95)

MD 2.7 (TRN).

TRN 0.54 176 iP 20 07.46 -1.0
 eS 20 19.05
 TCE 0.58 213 iP 20 09.24 0.2
 eS 20 17.29

TPR 0.65 90 eP 20 09.96 -0.1
 eS 20 19.05
 BOT 0.71 91 eP 20 10.64 -0.2
 eS 20 19.98

TBH 0.79 152 eP 20 12.83 0.9
 eS 20 21.50

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

* AUG 11, 1990 07h 20m 08.41±0.79s
 31.927 S ± 12.5km 178.256 W ± 14.6km
 DEPTH = 33.0km (normol)

5.2mb (3 obs.)

KERMADEC ISLANDS REGION (177)

PUZ 6.77 204 P 21 46.70 -1.3
 eS 23 06.80
 NOZ 7.33 203 eP 21 55.60 -0.2
 eS 23 18.00

COO 25.52 265 eP 25 37.00 1.3
 BRS 25.54 273 iPd 25 37.00 1.2
 RMO 29.23 272 eP 26 10.00 0.6
 CTA 33.86 282 iPc 26 50.00 -0.1
 1.0s 55.00nm 5.4mb

ASPA 42.83 269 iPd 28 04.50 -0.7
 WRA 43.96 274 Pd 28 12.70 -1.6

11d 07h

0.7s 19.10nm 5.0mb
 WB5 43 96 274 eP 28 13.10 -1.2
 i 28 25.80
 SPA 58.25 180 iPd 30 03.20 1.3
 1.0s 26.00nm 5.3mb
 KVN 98.04 42 P 33 04.50 -1.7
 FBA 99.40 13 P 33 46.00 -2.1
 NUR 147.66 339 iPKP 39 47.00 -0.4
 0.9s 27.00nm
 BCAA 148.44 213 iPKPd 39 53.00 2.8X
 1.0s 25.00nm
 id 40 07.40
 UPP 150.12 344 iPKP 39 52.60 1.3
 NB2 150.22 351 PKP 39 53.50 2.0
 0.9s 11.30nm
 HFS 150.69 348 ePKP 39 53.80 1.6
 0.9s 12.00nm
 KHC 160.64 336 ePKP 40 10.40 5.0X
 S.D. = 1.4 on 16 of 18 obs.

AUG 11, 1990 07h 49m 05.94±1.42s
 4.913 S ± 5.3km 151.217 E ± 12.9km
 DEPTH = 194.8 ± 15.0 km
 4.8mb (5 obs.)

NEW BRITAIN REGION (192)

LAT 4.54 247 eP 50 15.00 0.1
 eS 51 06.00
 PMG 6.02 222 iPc 50 34.00 -0.1
 eS 51 45.00
 OIS 19.22 215 iPc 53 17.20 -0.2
 GUA 19.37 341 eP 53 19.30 0.3
 0.7s 153.42nm 5.6mb
 GUMO 19.43 341 eP 53 19.50 -0.1
 PJG 19.43 341 eP 53 19.50 -0.1
 RMO 21.58 186 iPd 53 41.60 0.6
 0.6s 35.00nm 5.1mb
 WB5 22.15 226 eP 53 46.80 0.3
 WRA 22.21 226 Pc 53 47.40 0.3
 0.6s 8.20nm 4.4mb
 BRS 22.40 176 iPd 53 48.50 -0.5
 DZM 22.55 141 iPd 53 51.00 0.5
 COO 25.54 179 iPc 54 17.00 -1.5
 0.7s 19.00nm 4.9mb
 BWA 29.48 185 eP 54 55.00 1.1
 CAN 30.33 184 eP 55 00.80 -0.5
 FBA 82.58 22 P 01 07.30 -0.7
 KVN 93.59 51 (P) 02 02.20 0.7
 YKA 96.26 28 eP 02 12.70 -0.2
 0.5s 0.40nm 4.0mb
 S.D. = 0.7 on 17 of 17 obs.

AUG 11, 1990 08h 00m 14.82±0.25s
 22.182 S ± 7.5km 171.138 E ± 4.4km
 DEPTH = 131.3km (2 depth phases)
 5.3mb (15 obs.)

LOYALTY ISLANDS REGION (189)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

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

Centroid Location:

Origin Time 08:00:21.1 0.7

Lat 21.76S 0.08 Lon 170.93E 0.05

Dep 111.5 2.9 Half-duration 2.0

Moment Tensor: Scale 10**17 Nm

Mrr=-0.14 0.06 Mtt= 0.66 0.13

Mff=-0.52 0.13 Mrt= 0.47 0.06

Mrf= 1.57 0.07 Mtf= 0.95 0.09

Principal Axes:

T Vol= 2.00 Plg=34 Azm=316

N -0.02 34 199

P -1.98 38 78

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

NP1: Strike=104 Dip=34 Slip= -4

NP2: 198 88 -124

DZM 4.35 271 iPd 01 18.30 -2.0
 iS 02 06.00
 PVC 5.16 328 iPd 01 31.20 0.2
 NDF 7.39 55 eP 02 04.50 3.1X
 SGE 7.85 56 ePc 02 08.10 0.4
 SVA 7.98 61 ePd 02 08.30 -1.0
 YUN 8.04 60 ePd 02 18.20 8.0X
 MBU 8.83 55 eP 02 20.10 -0.7
 WLZ 16.07 167 P 04 02.30 7.8X
 HNR 16.62 318 (P) 04 03.00 1.6
 BRS 17.46 249 iPd 04 12.50 0.8

COO 19.14 240 iPd 04 17.50
 RMO 20.83 254 iPc 04 49.20 1.5
 0.8s 199.00nm 5.6mb
 CNB 23.08 231 eP 05 12.70 3.0X
 e 05 37.00 116kmX
 CTA 23.30 271 iPc+ 05 12.80 1.0
 2.0s 641.18nm 5.7mb
 iS 09 17.40
 iScP 12 26.40
 CAN 23.35 231 eP 05 14.70 2.4
 BWA 23.37 234 iPc 05 12.30 -0.2
 CMS 24.37 242 iPd 05 23.40 1.4
 e 05 44.00 94kmX
 QLP 24.87 254 iPc 05 27.20 0.4
 e 05 52.00 117kmX
 STK 27.96 243 eP 05 54.90 0.0
 1.6s 50.00nm 5.0mb
 e 06 16.40 96kmX
 OIS 29.38 267 eP 06 06.00 -1.8
 ASPA 34.27 260 iPc 06 49.20 -1.2
 0.8s 107.00nm 5.7mb
 Z 22s 0.63um 4.3mszX
 eS 11 46.10
 LR 19 03.50

WB5 34.35 267 iPc 06 49.00 -2.0
 WRA 34.36 267 Pc 06 48.90 -2.3
 0.8s 19.10nm 4.9mb
 PMO 39.38 87 iP 07 32.40 -0.9
 1.2s 1780.00nm 6.7mb X
 VAH 39.56 87 iP 07 33.70 -1.1
 1.2s 125.00nm 5.6mb
 TPT 39.65 87 iP 07 34.60 -0.9
 1.2s 170.00nm 5.7mb
 RUV 39.81 87 iP 07 35.80 -1.0
 1.2s 215.00nm 5.8mb
 WARB 40.64 255 eP 07 43.00 -0.6
 0.5s 17.00nm 5.0mb
 GUA 43.83 322 eP 08 09.70 0.1
 GUMO 43.90 322 eP 08 10.00 -0.1
 PJG 43.90 322 eP 08 09.20 -0.9
 MBL 47.50 261 iPc 08 38.00 -0.7
 0.5s 15.00nm 5.0mb
 MRWA 49.81 250 eP 08 54.50 -1.8
 SBA 55.76 181 P 09 40.40 0.7
 KKM 60.63 291 ePc 10 13.50 -1.0
 MAT 66.17 331 eP 10 49.00 -1.3
 1.8s 63.64nm 5.2mb
 eS 19 28.00
 SPA 67.95 180 iPd 11 00.10 -1.3
 1.0s 45.00nm 5.3mb
 i 11 24.80 97kmX
 SNG 74.92 284 eP 11 43.90 0.5
 BJI 80.33 320 eP 12 12.00 -0.6
 2.0s 55.00nm 5.0mb
 eS 22 12.00
 CHG 81.48 294 ePc 12 20.00 0.9
 1.3s 37.98nm 5.0mb
 LZH 86.00 311 Pc 12 42.50 0.6
 2.0s 82.00nm 5.3mb
 Z 21s 0.30um 4.7mszX
 sP 13 09.00

GCC 86.20 48 eP 12 43.00 0.5
 PRS 86.27 48 eP 12 43.00 0.9
 BCH 86.59 50 P 12 45.00 0.3
 MHC 86.60 47 eP 12 46.00 1.3
 PRI 86.66 49 eP 12 46.00 1.0
 MWC 87.57 52 eP 12 50.00 0.5
 WDC 87.69 44 eP 12 50.50 0.8
 FRI 87.75 48 eP 12 50.60 0.6
 CMB 87.81 47 eP 12 50.50 0.1
 ORV 87.84 46 eP 12 50.80 0.4
 RVR 87.96 52 eP 12 50.00 -1.1
 SBB 87.96 51 eP 12 51.00 -0.2
 ISA 87.97 50 eP 12 51.00 -0.2
 PLM 88.03 53 eP 12 52.00 0.3
 MIN 88.18 45 eP 12 52.40 0.2
 LBFM 88.51 44 P 12 54.00 0.1
 CLC 88.67 50 eP 12 55.00 0.5
 TPC 88.98 52 eP 12 56.00 -0.1
 GSC 88.99 51 eP 12 56.00 -0.1
 GLA 89.41 54 P 12 58.00 -0.1
 KVN 89.87 47 P 13 00.00 -0.3
 pP 13 34.00 132km
 RMW 91.75 39 P 13 09.00 0.4
 ALO 96.51 55 eP 13 30.00 -0.9
 e 14 04.00 131km

ANMO 96.51 55 P 13 30.00 -0.8
 KRA 144.15 328 ePKP 19 34.00 -2.3
 SPC 144.55 327 ePKP 19 36.30 -1.0
 KSP 145.30 332 iPKPc 19 38.30 0.0
 1.1s 79.00nm
 e 20 06.00
 BZS 145.90 321 ePKP 19 39.50 0.1
 BRG 146.28 334 iPKP 19 40.80 0.9
 1.7s 44.00nm
 i 20 11.20
 CLL 146.32 335 iPKP 19 40.60 0.7
 1.1s 20.00nm
 e 20 13.00
 PRU 146.70 332 PKPc 19 42.20 1.6
 1.0s 21.70nm
 e 20 11.70
 ZST 146.78 328 ePKP 19 42.80 2.0
 e 20 12.30
 OUR 146.85 311 iPKP 19 47.80 6.7X
 MOX 147.38 336 ePKP 19 44.00 2.3
 e 20 14.00
 KHC 147.75 332 iPKPc 19 45.40 3.0X
 1.0s 14.00nm
 SKO 147.87 315 iPKPc 19 45.20 2.5
 i 19 48.80
 BCAA 148.14 240 iPKPc 19 47.50 3.5X
 0.8s 14.00nm
 id 20 17.00

GRF 148.30 335 iPKPc 19 46.70 3.5X
 e 19 50.70
 KMR 148.30 330 iPKP+ 19 46.70 3.5X
 epPKP 20 19.00
 PTJ 148.89 325 ePKP 19 48.40 4.1X
 MEM 149.33 341 PKP 19 49.60 4.9X
 VBY 149.52 325 iPKPd 19 50.50 5.3X
 LJU 149.53 327 ePKP 19 49.60 4.4X
 e 20 34.50
 CEY 149.79 327 ePKP 19 50.30 4.7X
 VOY 149.86 328 ePKPc 19 49.30 3.5X
 e 20 17.30
 FVI 149.99 329 PKP 19 51.00 5.2X
 DOU 150.19 342 PKP 19 51.00 5.0X
 e 20 22.10
 SOTA 150.24 332 iPKPc 19 51.30 4.9X
 0.9s 33.10nm
 CDF 150.82 338 ePKP 19 52.80 5.6X
 0.8s 5.35nm
 BSF 151.49 338 ePKP 19 54.00 5.8X
 0.8s 5.35nm
 HAU 151.49 338 ePKP 19 55.00 6.9X
 0.8s 5.35nm
 MDI 152.01 332 PKP 19 54.00 5.2X
 LBF 153.17 340 ePKP 20 09.60 19.1X
 0.9s 4.90nm
 SSF 153.24 341 ePKP 20 09.90 19.3X
 0.8s 4.05nm
 LPL 153.46 335 ePKP 19 59.00 7.8X
 LPG 153.47 335 ePKP 19 59.10 7.8X
 SMF 153.51 340 ePKP 20 11.10 20.1X
 1.0s 6.00nm
 AVF 153.53 341 ePKP 20 11.10 20.1X
 0.8s 4.05nm
 BNI 153.87 334 PKP 20 10.00 18.3X
 S.D. = 1.1 on 71 of 100 obs.

AUG 11, 1990 08h 03m 48.75±0.79s
 37.959 N ± 6.7km 29.280 E ± 8.6km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

KHL 0.41 28 iPg 03 56.10 -1.1
 iSg 04 04.10
 YER 1.14 224 ePn 04 08.60 -1.6
 BCK 1.15 115 iPn 04 11.00 0.7
 ALT 1.27 30 ePn 04 11.00 -1.5
 ELL 1.31 157 ePn 04 13.70 0.7
 IZM 1.65 286 ePn 04 18.10 0.2
 DST 1.72 343 ePn 04 21.00 2.0
 IZI 2.38 4 ePn 04 29.00 0.5
 YLV 2.61 2 ePn 04 37.00 5.3X
 S.D. = 1.5 on 8 of 9 obs.

AUG 11, 1990 09h 22m 42.72±1.00s
 39.124 N ± 8.5km 27.601 E ± 10.1km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

IZM 0.77 200 iPg 22 57.60 -0.2
 DST 0.93 59 iSg 23 08.60
 EZN 1.21 306 iPn 23 01.00 0.5
 EDC 1.24 9 ePn 23 05.70 0.5
 S.D. = 1.0 on 4 of 4 obs.

% AUG 11, 1990 09h 22m 56.54 ± 2.71s
 43.968 N ± 14.9km 8.418 E ± 14.2km
 DEPTH = 10.0km (geophysicist)
 CORSICA (380)
 ML 2.3 (GEN).

FIN 0.28 328 P 23 02.74 0.2
 IMI 0.39 262 P 23 06.21 0.0
 ROB 0.51 310 P 23 04.48 0.0
 PCP 0.58 9 P 23 09.81 0.0
 ENR 0.76 290 P 23 06.64 -0.3
 STV 0.83 290 P 23 12.64 -0.1
 PZZ 1.09 300 P 23 08.28 -0.1
 S.D. = 0.2 on 7 of 7 obs.

AUG 11, 1990 09h 51m 49.53 ± 0.74s
 38.365 N ± 5.3km 22.130 E ± 9.6km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 3.1 (ATH).

EVR 0.61 336 ePg 52 01.30 -0.5
 AGG 0.67 13 iPd 52 01.90 -1.0
 ITM 1.19 188 ePb 52 10.50 -1.3
 NEO 1.27 42 ePb 52 12.90 -0.2
 ATH 1.31 107 ePg 52 14.90 1.2
 LIT 1.76 9 ePc 52 20.80 0.6
 VLI 1.76 158 ePb 52 21.10 0.8
 KZN 1.96 352 ePn 52 24.20 1.0
 PLG 2.25 27 ePn 52 26.40 -1.0
 KEK 2.26 307 ePg 52 34.00 6.5X
 OUR 2.43 36 eP 52 28.10 -1.8
 FNA 2.48 347 ePd 52 31.70 1.0
 KNT 2.86 12 eP 52 36.20 0.2
 OHR 2.93 340 ePn 52 41.00 4.0X
 VAY 2.97 6 ePn 52 38.70 1.2
 SKO 3.64 352 ePn 52 52.00 4.9X
 S.D. = 1.1 on 13 of 16 obs.

? AUG 11, 1990 10h 52m 26.15 ± 3.50s
 0.039 N ± 20.2km 78.610 W ± 58.7km
 DEPTH = 33.0km (normal)
 COLOMBIA-ECUADOR BORDER REGION (106)

YANA 0.16 166 iP 52 32.30 -0.6
 GGP 0.21 176 iPd 52 33.50 -0.1
 QTO 0.25 162 iP 52 31.70 -2.1
 COTA 0.40 43 P 52 35.40 -0.4
 VC1 0.71 163 iS+ 52 40.50 0.5
 S.D. = 1.3 on 5 of 5 obs.

* AUG 11, 1990 11h 16m 41.13 ± 4.87s
 1.435 N ± 21.9km 123.527 E ± 39.4km
 DEPTH = 57.9 ± 50.8 km
 3.9mb (1 obs.) 4.1msz (1 obs.)
 MINAHASSA PENINSULA (265)

DAV 5.97 20 eP 18 10.00 0.9
 BAG 15.16 349 eP 20 12.00 -1.5
 WB5 23.70 154 eP 21 48.20 -0.5
 WRA 23.75 154 Pd 21 49.50 0.4
 GUMO 24.32 59 eP 22 05.50 10.7X
 OIS 26.94 145 eP 22 19.00 -0.1
 BJI 39.00 351 eP 24 03.50 -0.1
 Z 20s 0.30um 4.1msz
 PKI 44.79 309 P 24 52.80 1.2
 KKN 45.00 309 P 24 56.40 3.3X
 MAIO 68.39 309 eP 27 39.00 -0.2
 S.D. = 1.1 on 8 of 10 obs.

* AUG 11, 1990 11h 42m 16.43 ± 0.95s
 38.454 N ± 6.7km 21.954 E ± 21.6km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 MD 2.6 (ATH).

EVR 0.48 346 ePg 42 25.10 -1.0
 AGG 0.64 27 eP 42 34.10 -1.3
 ITM 1.27 181 ePg 42 28.00 -1.4
 NEO 1.31 49 ePb 42 39.10 -1.4
 LIT 1.70 14 eP 42 38.70 -1.4
 KZN 1.86 356 ePn 42 44.90 4.3X
 VLI 1.90 155 ePn 42 46.60 0.4
 FNA 2.37 349 eP 42 49.00 0.4
 S.D. = 1.5 on 7 of 8 obs.

% AUG 11, 1990 12h 49m 15.31 ± 2.00s
 39.997 N ± 11.8km 27.481 E ± 13.2km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

EDC 0.46 40 iPg 49 24.50 -0.1
 KGT 0.47 343 iPg 49 32.50 0.1
 KCT 0.72 69 iPg 49 25.00 0.1
 DST 0.97 114 iPn 49 30.00 0.6
 CTT 1.36 32 ePn 49 33.90 0.2
 YLV 1.55 68 iPn 49 40.30 0.1
 IZI 1.56 77 ePn 49 43.00 -0.1
 S.D. = 0.4 on 7 of 7 obs.

* AUG 11, 1990 12h 56m 28.27 ± 0.75s
 35.514 N ± 15.3km 24.866 E ± 9.8km
 DEPTH = 33.0km (normal)
 3.7mb (1 obs.)
 CRETE (370)
 MD 3.5 (ATH).

VAM 0.55 259 ePb 56 39.30 -0.4
 NPS 0.66 112 ePb 56 34.30 -6.8X
 VLI 1.97 308 ePn 57 01.20 1.2
 ITM 2.90 306 ePb 57 20.80 7.7X
 DSI 9.62 111 eP 58 48.00 0.6
 PRNI 9.95 118 eP 58 52.00 -0.1
 MBH 10.20 121 eP 58 55.00 -0.4
 KHC 15.94 332 eP 00 10.50 -1.1
 HFS 25.68 347 eP 01 51.60 -5.0X
 S.D. = 1.0 on 6 of 9 obs.

? AUG 11, 1990 15h 20m 24.71 ± 21.30s
 33.945 S ± 64.7km 72.428 W ± 158.0km
 DEPTH = 33.0km (normal)
 OFF COAST OF CENTRAL CHILE (134)

TACH 1.27 77 iPc 20 45.90 -0.4
 CHCH 1.48 90 iS 21 04.60 0.2
 ROCH 1.53 51 iPd 21 10.00 -0.3
 SAN 1.55 72 eP 21 12.50 -0.4
 PCH 1.63 79 iPc 21 15.80 -0.1
 PEL 1.66 62 iPc 21 21.50 0.6
 FCH 1.89 72 iPd 21 25.00 0.3
 JACH 1.99 51 ePc 21 25.00 -0.1
 MDZ 3.17 72 i(P) 21 22.10 10.2X
 S.D. = 0.4 on 8 of 9 obs.

% AUG 11, 1990 15h 46m 56.26 ± 2.26s
 41.223 N ± 18.0km 29.313 E ± 8.1km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

ISK 0.25 231 ePg 47 01.70 0.2
 HRT 0.48 146 iPg 47 05.70 -0.5

YLV 0.66 176 iPg 47 08.80 -0.6
 CTT 0.67 264 iPg 47 09.20 -0.4
 IZI 0.89 172 iPg 47 18.20 -0.3
 GPA 1.20 141 ePn 47 13.20 -0.3
 KCT 1.21 217 iPg 47 25.70 0.3
 ALT 2.25 164 ePn 47 19.00 0.4
 S.D. = 0.6 on 8 of 8 obs.

% AUG 11, 1990 16h 25m 46.09 ± 1.07s
 31.938 S ± 9.9km 117.235 E ± 10.2km
 DEPTH = 5.0km (geophysicist)
 WESTERN AUSTRALIA (590)

KLB 0.56 53 iPc 25 56.60 -0.8
 MUN 0.87 267 iPc 26 06.00 -1.1
 BAL 1.40 341 eP 26 02.20 1.7
 RKG 2.13 185 eP 26 16.00 0.6
 MRWA 2.91 338 eP 26 23.50 -0.4
 S.D. = 1.6 on 5 of 5 obs.

? AUG 11, 1990 16h 51m 31.93 ± 1.57s
 20.292 S ± 18.5km 168.276 E ± 25.9km
 DEPTH = 33.0km (normal)
 4.7mb (2 obs.)
 LOYALTY ISLANDS (188)

DZM 2.46 224 iPc 52 09.50 -1.2
 PVC 2.54 1 iPc 52 39.00 -1.2
 CTA 20.67 267 iPc 52 10.50 4.4mb
 ASPA 32.01 258 eP 57 56.90 -0.8
 CHG 0.8s 13.00nm 4.9mb
 CHG 78.27 295 eP 03 32.80 2.2X
 CHTO 78.27 295 P 03 31.50 0.9
 KVN 90.59 48 P 04 33.20 0.7
 BCAA 146.60 246 iPKPc 11 13.40 2.3X
 MEM 0.7s 9.00nm
 MEM 146.66 339 PKP 11 12.70 2.7X
 DOU 147.56 340 PKPc 11 15.20 3.7X
 FLN 150.19 345 ePKP 11 21.70 6.1X
 LOR 0.8s 5.35nm
 LOR 150.25 338 ePKP 11 22.20 6.4X
 LDF 0.8s 5.35nm
 LDF 150.26 344 ePKP 11 21.90 6.2X
 LBF 0.8s 4.05nm
 LBF 150.46 338 ePKP 11 22.90 6.8X
 SSF 0.8s 2.70nm
 SSF 150.55 339 ePKP 11 23.20 7.0X
 LPL 0.8s 5.35nm
 LPL 150.60 333 ePKP 11 23.80 7.2X
 LPG 0.8s 4.05nm
 LPG 150.61 333 ePKP 11 23.90 7.2X
 GRR 0.8s 4.70nm
 GRR 150.63 345 ePKP 11 22.80 6.5X
 LPF 0.8s 5.35nm
 LPF 151.01 345 ePKP 11 23.90 7.1X
 BGF 0.8s 8.05nm
 BGF 151.22 339 ePKP 11 24.30 7.1X
 TCF 0.8s 4.05nm
 TCF 151.66 339 ePKP 11 25.60 7.6X
 LSF 0.8s 2.70nm
 LSF 151.92 340 ePKP 11 25.80 7.5X
 S.D. = 1.6 on 6 of 22 obs.

% AUG 11, 1990 17h 54m 57.07 ± 0.59s
 23.102 S ± 9.3km 130.245 E ± 6.1km
 DEPTH = 10.0km (geophysicist)
 NORTHERN TERRITORY, AUSTRALIA (591)

ASPA 3.41 100 iPc 55 54.10 2.7
 WARB 4.49 226 eP 55 59.50 4.6X
 WRA 4.94 51 Pd 56 11.30 -0.6
 WB5 5.00 51 iPd 56 12.50 -0.9

11d 17h

KNA 7.44 349 eP 56 48.00 -0.4
 QIS 9.06 76 iPd 57 11.30 0.5
 MBL 9.84 279 eP 57 22.70 1.0
 0.3s 4.00nm 5.4mb X
 MEKA 11.19 249 eP 57 40.00 -0.2
 0.3s 2.00nm 5.0mb X
 COOL 11.22 224 eP 57 40.00 -0.5
 STK 13.33 133 eP 58 06.90 -2.0
 1.8s 102.00nm 5.6mb X
 NANU 13.58 269 eP 58 12.50 0.3
 MRWA 14.17 242 eP 58 19.30 -0.6
 MUN 15.26 232 eP 58 35.00 0.8
 S.D. = 1.3 on 12 of 13 obs.

? AUG 11, 1990 18h 07m 33.96±1.29s
 38.645 N ± 8.6km 15.303 E ± 12.6km
 DEPTH = 10.0km (geophysicist)

SICILY (398)

ATN 0.50 165 P 07 44.50 0.4
 SOI 0.82 134 P 07 49.50 -0.4
 MNO 0.86 214 P 07 50.50 -0.1
 TDS 1.29 38 P 07 58.00 0.1
 S.D. = 0.6 on 4 of 4 obs.

? AUG 11, 1990 18h 16m 41.01±1.65s
 16.334 S ± 47.0km 71.774 W ± 17.5km
 DEPTH = 131.6 ± 13.4 km
 3.9mb (1 obs.)

SOUTHERN PERU (117)
 Felt (11) at Arequipa.

ARE 0.30 115 iPc 17 00.00 -0.9
 ZOBO 3.51 89 iPc 17 36.00 0.4
 LPB 3.53 94 P 17 36.00 0.2
 CNCB 3.67 98 iPc 17 38.00 0.3
 PT03 4.53 300 eP 17 48.90 0.1
 PT06 5.06 299 iPd 17 57.70 1.8
 PT02 5.63 306 e(P) 18 03.30 -0.4
 PT08 6.35 313 iP 18 14.00 0.1
 NNA 6.54 311 iP 18 15.40 -0.8
 0.3s 16.88nm 4.9mb X
 PT10 6.58 309 e(P) 18 25.60 8.9X
 SIV 10.29 90 P 19 00.00 -6.5X
 YKA 85.45 342 eP 29 03.90 -0.7
 0.6s 1.00nm 3.9mb
 S.D. = 1.0 on 10 of 12 obs.

? AUG 11, 1990 19h 50m 04.42±1.07s
 0.033 S ± 7.5km 78.413 W ± 14.0km
 DEPTH = 5.0km (geophysicist)

ECUADOR (107)

OUR 0.18 220 iPd 50 08.00 -0.3
 GGP 0.23 232 iPd 50 09.50 0.2
 COTA 0.37 12 iP+ 50 12.00 0.0
 VC1 0.60 179 iP+ 50 16.60 0.1
 S.D. = 0.3 on 4 of 4 obs.

* AUG 11, 1990 21h 04m 37.78±0.90s
 29.324 N ± 22.9km 32.566 E ± 11.3km
 DEPTH = 10.0km (geophysicist)

ARAB REPUBLIC OF EGYPT (553)
 MD 3.8 (HLW).

HLW 1.19 297 eP 05 00.00 0.0
 HQI 2.17 91 eP 05 14.30 -0.1
 BADA 2.28 110 eP 05 16.30 0.3
 AYN 3.04 98 eP 05 26.70 0.0
 WAJH 4.73 131 eP 05 50.70 -0.1
 S.D. = 0.2 on 5 of 5 obs.

AUG 11, 1990 21h 09m 39.67±0.74s
 16.352 N ± 3.4km 120.414 E ± 3.7km
 DEPTH = 30.4 ± 5.1 km
 5.2mb (58 obs.) 4.6MsZ (8 obs.)

LUZON, PHILIPPINE ISLANDS (249)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 75, 17C

Centroid Location:

Origin Time 21:09:38.2 1.2

Lat 16.54N 0.10 Lon 121.11E 0.18

Dep 15.0 FLX Half-duration 1.5

Moment Tensor: Scale 10¹⁶ Nm

Mrr=-3.58 0.76 Mtt= 4.30 0.53

Mff=-0.73 1.07 Mrt= 0.00 0.00

Mrf= 0.00 0.00 Mtr=-0.24 0.65

Principal Axes:

T Val= 4.31 P1= 0 Azm=183

N -0.74 0 93

P -3.58 90 180

Best Double Couple: Mo=3.9×10¹⁶

NP1: Strike=273 Dip=45 Slip=-90

NP2: 93 45 -90

BAG 0.17 70 iPd 09 45.90 0.0
 OCP 1.82 159 eP 10 15.00 5.6X
 QZH 8.72 349 eP 11 44.50 -2.2

Z 15s 2.70um
 E 14s 2.80um
 GZH 9.44 316 P 11 55.50 -1.2
 Z 15s 1.30um
 N 13s 4.00um
 E 13s 4.10um

DAV 10.50 151 eP 12 16.00 4.7X
 TSM 12.27 191 ePc 12 37.50 2.2
 SSE 14.69 3 Pd 13 06.60 -0.6

1.0s 12.00nm 4.3mb
 Z 24s 1.60um 3.5MsZ
 E 14s 1.70um

WHN 15.18 340 eP 13 14.50 1.0
 Z 16s 1.20um
 N 15s 1.80um
 E 15s 4.00um

PP 13 19.50
 NJ2 15.69 355 Pc 13 23.50 3.3X
 Z 20s 0.70um
 N 15s 1.20um
 E 15s 2.20um

PP 13 28.60 0.9
 GYA 16.27 310 P 13 28.60 0.9
 Z 18s 2.10um
 N 13s 2.20um
 E 13s 2.20um

PP 14 05.00
 KAGJ 17.59 31 eP 13 47.70 3.5X
 PCT 18.39 267 eP 13 57.50 3.4X
 KUMJ 18.67 28 P 13 57.10 -0.4

KMI 18.68 301 Pc 14 00.00 2.1
 1.0s 70.00nm 4.8mb
 Z 16s 1.50um 4.3MsZ
 N 12s 0.50um

PP 14 17.00
 NST 19.51 271 eP 14 15.50 8.0X
 SHNJ 20.14 27 eP 14 13.80 -0.3
 NNT 20.37 262 eP 14 09.00 -7.6X

XAN 20.42 332 P 14 16.60 -0.6
 1.4s 100.00nm 5.0mb
 N 14s 2.40um
 E 14s 2.50um

BDT 20.52 276 eP 14 18.00 -0.1
 0.8s 31.10nm 4.7mb
 CHG 20.61 280 eP 14 20.30 1.1
 1.1s 15.82nm 4.3mb

e 18 29.30
 CD2 21.00 317 eP 14 23.60 0.4
 1.0s 100.00nm 5.2mb

Z 13s 1.20um 4.5MsZ
 N 12s 1.70um

SNG 21.40 247 eP 14 28.00 0.8
 TKSJ 21.42 32 eP 14 27.10 -0.2
 KGM 22.05 231 eP 14 34.00 0.3
 YONJ 22.09 29 P 14 34.50 0.5

TIY 22.41 343 Pd 14 39.00 1.7
 Z 16s 1.90um 4.6MsZ
 N 14s 1.20um

WKYJ 22.42 35 P 14 37.50 0.2
 DL2 22.49 2 eP 14 38.00 0.1
 Z 15s 0.70um 4.2MsZ
 E 14s 1.80um

eS 18 40.00
 TSRJ 23.63 33 P 14 49.40 0.4
 GUMO 23.78 93 eP 14 55.50 4.9X
 eS 19 20.00

GUA 23.83 93 eP 14 55.00 3.9X
 BJI 23.89 352 eP 14 53.00 1.5
 1.7s 140.00nm 5.2mb
 Z 18s 0.71um 4.2MsZ
 E 16s 1.02um

LZH 24.57 326 Pc 14 59.70 1.3
 1.3s 69.00nm 5.1mb
 Z 20s 1.00um 4.3MsZ
 N 13s 2.40um
 E 13s 2.40um

PP 15 05.00
 ePP 15 34.50
 IIDJ 24.64 36 eP 15 02.50 3.6X
 MTMJ 25.38 34 P 15 06.40 0.4

SNY 25.53 5 P 15 07.00 -0.2
 1.2s 100.00nm 5.3mb
 Z 16s 1.20um 4.5MsZ
 N 15s 0.80um
 E 13s 1.90um

PP 15 11.80
 SS 19 44.50
 MAT 25.57 35 eP 15 06.00 -1.7
 0.7s 17.12nm 4.8mb

eS 19 42.00
 HHC 25.59 344 P 15 09.00 1.1
 Z 18s 1.69um 4.6MsZ
 E 16s 1.10um

PP 15 16.00
 ePP 15 52.00
 SS 19 50.00
 CHJJ 25.66 37 P 15 07.80 -0.7
 BTO 25.79 342 eP 15 10.00 0.2

N 13s 0.90um
 E 13s 0.40um
 PP 15 17.50
 CN2 27.69 8 eP 15 23.00 -4.1X
 Z 15s 0.90um 4.5MsZ
 N 15s 0.90um
 E 15s 0.70um

PP 15 17.50
 GTA 29.17 326 Pd 15 41.00 0.3
 1.0s 20.00nm 4.8mb
 Z 14s 2.10um 4.9MsZ
 E 13s 0.70um

PcP 18 48.00
 S 20 36.00
 MDJ 29.22 13 eP 15 40.00 -0.9
 Z 24s 0.60um 4.1MsZ
 N 12s 0.30um

GUN 33.88 296 P 16 21.90 -0.5
 PKI 34.22 295 P 16 24.00 -1.3
 KKN 34.37 295 P 16 26.40 -0.1
 DMN 34.49 295 P 16 26.50 -1.0

0.9s 69.00nm 5.6mb
 GKN 34.97 296 P 16 30.40 -1.2
 MBL 37.28 181 eP 16 46.50 -4.3X
 WB5 38.53 159 eP 16 58.70 -2.6

i 19 14.80
 WRA 38.58 159 Pd 16 59.40 -2.4
 0.9s 27.40nm 5.0mb
 WMO 38.95 322 P 17 05.80 1.0

Z 18s 1.80um 4.9MsZ
 N 13s 1.10um
 E 12s 1.10um

eS 23 02.50
 HYB 40.01 278 eP 17 14.50 0.7
 QIS 41.24 152 eP 17 22.00 -1.7
 GBA 41.55 272 Pc 17 26.50 0.1

0.7s 12.80nm 4.8mb
 WARB 42.71 172 eP 17 34.10 -1.7
 MEKA 42.75 182 eP 17 35.00 -1.0

[illegible]

TCF	52.68	27 eP	44 20.00	0.0		0.9s	12.40nm	4.9mb		1.2s	50.00nm	5.6mb		
	1.5s	31.35nm		5.0mb	TRI	58.14	34 ePc	44 58.10	-1.3	Z	18s	0.90um	5.0MsZ	
LPF	52.68	23 iPc	44 20.10	0.1			ePP	48 36.00		E	18s	1.00um		
	1.3s	43.30nm		5.2mb			eS	53 08.00				e	45 42.90	
MAF	52.79	27 iPc	44 21.10	0.3			eLR	03 18.00				eS	54 25.00	
	1.3s	36.10nm		5.1mb	FVI	58.14	33 P	44 59.50	0.1	TNR	64.33	38 ePd	45 41.00 -0.4	
FRF	52.88	32 eP	44 21.20	-0.3	HBVT	58.31	324 P	44 59.50	-1.2	BUC	64.94	40 eP	45 44.00 -1.3	
LVN	52.95	225 iPd	44 21.00	-1.2	BNS	58.36	26 iPd	45 02.00	1.1	VR1	65.96	39 ePd	45 51.50 -0.4	
GRR	53.04	23 iPc	44 22.50	-0.1		Z	20s	1.60um	5.1MsZ	MBH	66.82	58 eP	45 58.00 0.4	
	1.3s	39.70nm		5.2mb			i	53 16.00		PRNI	67.05	57 eP	45 59.00 -0.2	
BGF	53.17	27 eP	44 23.70	0.1	DBN	58.36	24 eP	45 01.00	0.1	NB2	67.22	20 P	45 59.30 -0.4	
	1.3s	32.50nm		5.1mb		Z	20s	1.10um	5.0MsZ		1.0s	33.00nm	5.5mb	
FAI	53.25	42 P	44 27.00	2.6			eS	53 11.00		FVM	67.31	311 P	45 58.80 -1.8	
PGF	53.49	34 iPc	44 25.70	-0.4	TNS	58.40	27 ePc	45 01.10	-0.2	HFS	67.46	21 eP	45 59.70 -1.4	
	1.2s	35.70nm		5.2mb	VOY	58.41	34 ePc	45 01.60	0.2		1.0s	13.50nm	5.1mb	
FLN	53.49	23 iPc	44 25.80	-0.1	CEY	58.53	34 eP	45 02.50	0.3		Z	18s	1.08um	5.1MsZ
	1.2s	35.70nm		5.2mb	LJU	58.77	34 ePc	45 03.50	-0.4			LR	06 39.00	
Z	21s	3.00um		5.3MsZ	LHS	58.81	310 P	45 02.80	-1.5	UPP	68.77	23 iP	46 08.60 -0.6	
LDF	53.50	23 iPc	44 25.70	-0.3	VBY	58.86	35 ePc	45 04.60	0.1	FRB	69.09	342 ePd	46 13.10 1.9	
	1.2s	26.80nm		5.1mb	BHG	58.90	32 eP	45 03.90	-0.9	TUL	70.91	308 eP	46 20.80 -2.1	
SBF	53.50	32 iPc	44 26.00	-0.1	WTS	58.96	25 eP	45 05.00	0.0		1.5s	20.60nm	5.0mb	
	1.3s	46.95nm		5.3mb		1.2s	21.00nm	5.1mb		Z	23s	3.01um	5.5MsZ	
AVF	53.58	27 iPc	44 26.60	0.0	JSC	59.07	310 P	45 05.50	-0.7			e	46 29.50	
	1.4s	19.60nm		4.9mb	GRF	59.34	29 iPc	45 07.50	-0.3			e	46 42.80	
SMF	53.69	27 eP	44 27.60	0.2		1.6s	92.00nm	5.7mb				LR	08 00.00	
	1.6s	43.55nm		5.2mb		Z	22s	0.90um	4.9MsZ	NUR	72.00	25 eP	46 28.00 -0.9	
DOI	53.84	31 P	44 29.50	0.9	PTJ	59.49	35 eP	45 04.10	-4.9X		0.8s	19.10nm	5.2mb	
SSF	53.85	27 iPc	44 28.50	-0.1	WIT	59.50	24 eP	45 10.00	1.2		Z	18s	1.40um	5.3MsZ
	1.6s	24.90nm		5.0mb	BLA	59.62	313 P	45 09.00	-1.0			LR	15 18.00	
GIB	53.87	42 P	44 44.00	15.0X		1.0s	15.00nm	5.1mb		MEO	72.90	306 e(P)	46 33.20 -1.6	
BNI	53.92	31 P	44 31.00	1.7	WET	59.81	30 eP	45 10.30	-0.7	SUF	73.78	23 iP	46 40.20 0.9	
LBF	54.01	27 iPc	44 29.90	0.1	OHR	59.96	42 iP	45 12.00	-0.3		0.8s	15.00nm	5.1mb	
	1.4s	47.90nm		5.3mb	KHC	60.15	31 iPc	45 13.00	-0.4	SOD	76.41	19		

12d 05h

NNA 12.03 164 eP 38 09.80 -1.7
0.6s 16.67nm 5.4mb X
eS 40 22.00
PT10 12.08 164 e(P) 38 11.50 -0.6
e(S) 40 31.50
PT08 12.09 162 iP 38 13.60 1.0
iS 40 29.00
ZOBO 19.83 143 P 39 51.00 0.0
Z 24s 0.23um
LR 46 40.00
LPB 20.06 144 P 39 55.00 1.8
CNCB 20.34 144 P 39 56.00 -0.3
CCH 21.90 141 P 40 12.40 0.5
SIV 24.51 130 P 40 37.00 -0.1
ALO 42.81 328 eP 43 16.70 0.7
0.9s 3.99nm 4.1mb
e 43 24.00
KVN 52.33 323 P 44 37.40 6.9X
PNT 59.92 331 eP 45 32.00 7.6X
LIC 75.41 84 P 47 01.20 -1.0
KIC 75.70 83 P 47 03.10 -0.8
0.6s 5.00nm 4.7mb
INK 77.50 342 eP 47 13.00 0.1
MBC 79.67 351 eP 47 24.50 -0.1
S.D. = 0.8 on 19 of 21 obs.

* AUG 12, 1990 05h 47m 44.53 ± 0.77s
37.465 N ± 11.0km 71.637 E ± 15.4km
DEPTH = 33.0km (normol)
3.6mb (3 obs.)

AFGHANISTAN-USSR BORDER REGION (717)

QUE 8.24 210 eP 49 44.90 0.0
eS 51 03.60
CHTO 30.25 120 (P) 53 54.50 -0.1
HFS 42.63 321 ePKP 55 39.10 0.1
0.4s 0.70nm 3.7mb
NB2 43.92 322 P 55 49.30 -0.3
0.6s 0.60nm 3.6mb
YKA 80.26 3 eP 59 53.20 0.3
0.4s 0.30nm 3.6mb
S.D. = 0.3 on 5 of 5 obs.

* AUG 12, 1990 06h 31m 17.97 ± 3.00s
31.515 S ± 7.7km 68.085 W ± 20.1km
DEPTH = 5.0km (geophysicist)

SAN JUAN PROVINCE, ARGENTINA (137)

CFA 0.16 235 iPd 31 21.50 0.2
eS 31 26.50
RTLL 0.38 299 ePc 31 25.00 -0.6
ZON 0.51 266 eP 31 28.00 -0.2
eS 31 38.00
RTCV 0.52 228 ePd 31 28.00 -0.3
(S) 31 38.90
RTCB 0.61 272 eP 31 30.80 0.6
RTBS 1.18 263 ePd 31 40.50 0.1
RTRS 1.79 318 eP 31 49.90 0.2
S.D. = 0.5 on 7 of 7 obs.

? AUG 12, 1990 06h 52m 00.93 ± 3.31s
32.630 N ± 14.0km 47.578 E ± 66.7km
DEPTH = 69.6 ± 15.8 km
4.0mb (3 obs.)

IRAN-IRAQ BORDER REGION (346)

KER 1.76 347 eP 52 30.00 0.0
QASM 7.41 209 eP 53 48.70 0.0
HFS 35.39 331 eP 58 51.80 0.2
0.7s 4.00nm 4.5mb
NB2 36.92 331 P 59 04.20 -0.2
0.8s 1.30nm 3.9mb
YKA 84.13 352 eP 04 25.10 0.0
1.1s 1.10nm 3.8mb
S.D. = 0.3 on 5 of 5 obs.

* AUG 12, 1990 07h 25m 51.20 ± 1.51s
5.842 S ± 10.1km 151.560 E ± 16.6km
DEPTH = 46.7 ± 13.2 km
4.7mb (7 obs.)

NEW BRITAIN REGION (192)

RAB 1.75 20 iPd 26 19.00 -0.6
iS 26 36.00
PMG 5.62 231 eP 27 16.00 1.5
eS 28 20.00
GUA 20.35 341 eP 30 27.20 0.6

GUMO 1.0s 120 00nm 5 2mb
20.41 341 eP 30 26.50 -0.7
1.0s 84.00nm 5.0mb
PJG 20.41 341 eP 30 26.70 -0.5
WB5 21.77 229 eP 30 40.00 -1.0
e 30 43.00
WRA 21.83 228 Pc 30 40.60 -0.9
0.5s 4.80nm 4.2mb
ASPA 24.56 222 eP 31 08.30 0.2
0.8s 20.00nm 4.7mb
SVW 78.25 23 eP 37 49.00 1.5
IMA 81.84 20 eP 38 07.60 0.9
0.9s 4.90nm 4.5mb
FBA 83.31 22 eP 38 13.50 -0.6
SPA 84.20 180 eP 38 18.00 -0.8
1.0s 8.00nm 4.7mb
INK 89.86 21 eP 38 46.00 -0.1
YKA 96.92 28 eP 39 19.00 0.5
0.8s 0.60nm 4.2mb
S.D. = 1.0 on 14 of 14 obs.

AUG 12, 1990 07h 51m 55.13 ± 0.50s
13.277 N ± 2.7km 143.935 E ± 3.2km
DEPTH = 143.7 ± 4.6 km
5.5mb (64 obs.)

SOUTH OF MARIANA ISLANDS (210)

Felt (III) on Guom.

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P. 8.: 12S, 25C

Centroid Location:

Origin Time 07:51:57.7 0.5

Lat 13.14N 0.04 Lon 143.90E 0.05

Dep 134.7 2.1 Half-duration 2.1

Moment Tensor: Scale 10**17 Nm

Mrr=-0.30 0.06 Mtt=-0.11 0.09

Mff= 0.41 0.09 Mrt= 0.99 0.07

Mrf=-1.33 0.06 Mtf=-0.23 0.09

Principal Axes:

T Vol= 1.79 Plg=38 Azm= 59

N -0.15 6 324

P -1.63 51 226

Best Double Couple: Mb=1.7*10**17

NP1: Strike=188 Dip= 9 Slip= -46

NP2: 323 84 -96

GUMO 0.96 71 iPd 52 19.30 0.1
PJG 0.96 71 eP 52 19.50 0.3
GUA 0.99 75 iPd 52 19.60 0.1
eS 52 37.00
DAV 19.08 253 ePd- 56 09.50 0.3
LAT 20.03 171 eP 56 21.00 2.0
KAGJ 21.49 328 P 56 35.00 1.5
WKYJ 22.18 341 P 56 41.30 1.0
TKSJ 22.49 338 P 56 44.00 0.9
KUMJ 22.61 330 iP+ 56 46.10 1.8
IIDJ 22.76 347 P 56 46.70 0.8
BAG 22.79 281 ePd- 56 47.00 0.6
1.2s 653.13nm 5.9mb

KAKJ 23.08 352 P 56 48.30 -0.5
eS 00 49.00
CHJJ 23.11 350 P 56 48.60 -0.5
eS 00 47.70

TSRJ 23.30 343 eP 56 50.20 -0.8
MAT 23.73 348 iPc 56 54.50 -0.7
0.9s 422.69nm 5.9mb

YONJ 23.78 338 P 56 55.80 0.1
SHNJ 23.80 333 iP+ 56 55.90 0.1
MTMJ 23.85 348 P 56 56.00 -0.5
NIJ 24.27 350 P 56 59.70 -0.6
eS 01 14.10

YAMJ 25.04 353 P 57 07.10 -0.3
QZH 26.56 300 Pc 57 20.50 -1.0
0.8s 100.00nm 5.5mb
PP 57 48.00
SP 58 06.00
eS 01 42.00
SS 02 37.00

SSE 27.44 314 Pd 57 29.00 -0.4
Z 20s 0.70um 4.2MsZ
S 01 54.00

KKM 28.24 258 eP 57 37.80 0.9
HOQJ 29.01 359 P 57 42.60 -0.7
MRRJ 29.15 356 eP 57 44.00 -0.6
NJ2 29.62 313 Pc 57 49.00 0.1
N 11s 0.40um

S 02 30.00

KUSJ 29.72 1 P 57 48.40 -1.3
ASAJ 30.75 358 P 57 58.60 -0.2
WHN 32.24 307 eP 58 12.00 0.2
N 12s 0.60um
SP 58 55.50
S 03 15.00
DL2 32.27 326 eP 58 12.00 0.0
0.8s 200.00nm 6.0mb
KNA 32.51 208 iPd 58 13.50 -0.8
0.9s 161.00nm 5.8mb
OIZ 33.20 284 Pd 58 21.00 0.6
N 11s 1.00um
CTA 33.23 176 iPd 58 20.40 -0.2
1.0s 163.00nm 5.7mb
iS 03 30.00
SNY 33.51 332 Pc 58 22.20 -0.5
0.8s 100.00nm 5.6mb
S 03 32.00
MDJ 33.55 341 iPc 58 22.90 -0.2
1.5s 300.00nm 5.8mb
PP 59 38.00
iS 03 34.00
ScS 08 31.00
QIS 33.89 187 iPd 58 25.40 -0.8
WB5 34.27 196 iPd 58 28.90 -0.6
iScP 04 33.40
CN2 34.31 336 iPc 58 29.00 -0.6
Z 14s 0.40um 4.3MsZ
N 12s 0.30um
E 12s 0.30um
S 03 42.00
WRA 34.34 196 Pd 58 29.10 -0.9
0.6s 201.10nm 6.0mb
BJI 36.13 323 eP 58 45.00 0.0
1.5s 200.00nm 5.6mb
Z 20s 0.60um 4.4MsZ
eS 04 12.00
eSS 06 42.00
TIY 37.12 317 Pd 58 54.60 1.1
1.0s 100.00nm 5.5mb
Z 14s 0.70um 4.6MsZ
N 10s 0.40um
SP 59 36.00
S 04 30.00
GYA 37.28 296 iPd 58 56.80 1.8
1.2s 200.00nm 5.7mb
SP 59 44.00
PcP 01 13.40
S 04 35.00
ScP 04 45.00
SS 05 28.00
ScS 08 52.80
XAN 37.88 309 P 59 00.00 0.1
S 04 41.00
ASPA 38.01 195 iPd 59 00.50 -0.4
0.7s 115.00nm 5.7mb
Z 20s 0.47um 4.3MsZ
eS 04 39.80
eScS 08 58.10
LR 13 42.90
HHC 39.42 320 Pd 59 14.40 1.8
N 14s 0.30um
E 14s 0.40um
PP 59 39.00
S 05 07.00
QLP 39.62 180 iPd 59 13.80 -0.4
RMO 39.80 173 iPd 59 15.00 -0.7
BTO 40.26 319 P 59 20.50 1.0
N 14s 0.40um
E 14s 0.30um
S 05 17.50
KMI 40.49 293 Pd 59 23.00 1.2
1.2s 200.00nm 5.7mb
PP 59 51.50
SP 00 08.00
S 05 22.00
LOE 40.85 281 iPd 59 24.00 -0.5
CD2 40.89 302 iPd 59 25.00 0.3
1.0s 300.00nm 5.9mb
SP 00 09.00
S 05 23.50
SS 06 18.30
PCT 41.25 277 eP 59 43.40 15.7X
1.1s 115.60nm
e 00 12.80
BRS 41.33 168 iPc 59 28.00 -0.3
i 59 43.00 58kmX

12d 07h

ISK 1.35 321 ePn 55 02.00 1.3
KCT 1.42 280 iPn 55 02.40 0.6
S.D. = 0.9 on 7 of 7 obs.

% AUG 12, 1990 08h 08m 22.49 ± 0.94s
43.861 N ± 23.7km 3.987 E ± 8.6km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 2.7 (LDG).

CDR 1.30 98 ePnd 08 47.20 0.6
eSn 09 05.10
CAF 1.74 308 Pn 08 53.00 0.0
Pg 08 58.50
Sg 09 24.50

LRG 1.77 102 Pn 08 51.60 -1.7
Pg 08 54.50
Sg 09 17.60

LMR 1.91 105 Pg 08 56.40 1.1
Sg 09 21.00

FRF 1.95 98 Pg 08 58.40 2.4X
Sg 09 24.10

RJF 2.28 310 Pg 09 10.00 9.2X
Sg 09 41.00

SBF 2.49 89 Pg 09 10.80 7.0X
Sg 09 45.60

MAF 2.57 337 Pg 09 18.20 13.4X
Sg 09 57.20

TCF 2.73 333 Pg 09 20.00 12.8X
Sg 10 00.40

EPF 2.78 254 Pg 09 08.00 0.0
Sg 09 41.40

LSF 2.96 325 Pg 09 23.40 13.1X
Sg 10 06.30
S.D. = 1.5 on 5 of 11 obs.

% AUG 12, 1990 08h 30m 18.00s
36.932 N 121.670 W
DEPTH = 5.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.7 (BRK).

SAO 0.25 133 iP 30 22.90 -0.1
iS 30 26.95

GCC 0.28 291 iPc 30 23.30 -0.3
MHC 0.41 3 iPd 30 26.50 0.3
iS 30 32.65

ARN 0.43 15 iPc 30 27.00 0.3
PRS 0.65 158 eP 30 30.40 -0.5
LLA 0.66 118 iPc 30 30.90 -0.4
PCC 0.80 315 iPc 30 32.50 -1.5
iS 30 44.20

BKS 1.04 335 iPd 30 37.20 -1.0
eS 30 51.80

BRK 1.05 334 eP 30 37.40 -0.9
ZSP 1.11 335 eP 30 39.00 -0.3
iS 30 55.30

PRI 1.13 134 eP 30 38.80 -0.9
PHAM 1.50 136 e(P) 30 40.00 -5.6
CMB 1.50 42 eP 30 46.50 0.8
eS 31 02.50

FRI 1.57 87 eP 30 45.20 -1.4
eS 31 05.80

KVN 3.53 52 eP 31 17.50 2.8
15 obs. associated

% AUG 12, 1990 08h 37m 56.50s
36.927 N 121.683 W
DEPTH = 11.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 3.3 (BRK).
Mo=2.2*10**14 Nm (BRK).

SAO 0.25 130 iP 38 01.55 -0.3
iS 38 05.60

GCC 0.27 292 iPc 38 01.70 -0.6
MHC 0.42 5 iPd 38 05.00 -0.1
iS 38 11.05

ARN 0.44 16 iPc 38 05.40 -0.1
PRS 0.65 157 iPd 38 08.50 -0.8
LLA 0.67 117 iPc 38 09.10 -0.6
PCC 0.80 316 iPc 38 10.90 -1.0
iS 38 22.50

BKS 1.04 335 ePd 38 15.13 -1.0
eS 38 30.00

BRK 1.05 334 eP 38 15.10 -1.1
iS 38 30.40

ZSP 1.11 336 eP 38 16.00 -1.3
iS 38 33.80

PRI 1.13 133 ePc 38 16.80 -0.9
PHAM 1.50 136 eP 38 21.70 -1.7
CMB 1.51 43 eP 38 22.20 -1.4
iS 38 41.00

FRI 1.58 87 eP 38 22.50 -2.0
iS 38 24.40

NWRM 1.80 328 eP 38 24.80 -2.9
BCH 2.17 143 eP 38 30.50 -2.6
KVN 3.54 52 eP 38 51.50 -1.1
17 obs. associated

? AUG 12, 1990 09h 30m 26.16 ± 1.09s
39.072 N ± 9.1km 27.510 E ± 11.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM 0.70 196 ePg 30 39.70 -0.3
iSg 30 51.20

DST 1.02 58 iPn 30 46.30 0.9
EZN 1.19 310 iPn 30 49.00 0.7
EDC 1.30 12 ePn 30 49.00 -1.3
S.D. = 1.7 on 4 of 4 obs.

% AUG 12, 1990 09h 56m 46.50 ± 2.34s
37.411 N ± 15.2km 72.145 E ± 8.5km
DEPTH = 105.6 ± 27.7 km
4.0mb (4 obs.)
TAJIK SSR (715)
Felt (11) at Khorog and Kulyob.

QUE 8.40 212 eP 58 47.00 -0.3
NDI 9.69 153 eP 59 05.50 1.0
0.5s 24.65nm 5.3mb X

GKN 14.08 128 P 00 02.60 0.1
KKN 14.63 127 P 00 09.20 -0.5
DMN 14.65 128 P 00 10.40 0.5
PKI 14.87 127 P 00 12.00 -0.8

GUN 14.94 125 P 00 13.40 -0.2
GBA 24.17 167 Pd 01 54.00 -0.1
0.6s 4.60nm 4.1mb

KEV 40.30 338 eP 04 23.00 8.7X
HFS 42.92 321 eP 04 35.70 -0.2
0.4s 2.10nm 4.3mb

NB2 44.21 322 P 04 46.40 0.0
0.5s 0.90nm 3.8mb

YKA 80.29 3 eP 08 46.90 0.4
0.9s 1.00nm 3.6mb
S.D. = 0.6 on 11 of 12 obs.

% AUG 12, 1990 10h 21m 02.30s
38.792 N 122.970 W
DEPTH = 5.0km
NORTHERN CALIFORNIA (36)
<BRK>. ML 2.9 (BRK).

NWRM 0.34 169 eP 21 09.50 0.3
ZSP 1.01 146 eP 21 21.30 -0.6
eS 21 37.30

BRK 1.07 148 eP 21 22.00 -1.0
eS 21 37.80

BKS 1.08 147 eP 21 22.15 -1.0
iS 21 38.45

PCC 1.37 160 eP 21 26.80 -1.2
ORV 1.37 56 eP 21 25.90 -2.2

MHC 1.79 144 eP 21 32.70 -1.5
WDC 1.82 10 eP 21 36.80 2.4
ARN 1.83 141 eP 21 33.30 -1.4

FHC 2.15 339 eP 21 47.50 8.1
CMB 2.17 110 eP 21 37.30 -2.3
LBFM 2.68 18 eP 21 49.50 2.4

FRI 3.14 124 eP 21 52.80 -0.6
KVN 3.81 85 eP 22 00.00 -3.1
14 obs. associated

? AUG 12, 1990 10h 24m 44.09 ± 1.13s
39.642 N ± 10.3km 29.420 E ± 14.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZI 0.69 3 ePg 24 57.40 -0.5
iSg 25 08.20

ALT 0.79 137 ePg 24 59.60 0.0
YLV 0.92 358 iPn 25 02.30 0.5
KCT 1.02 307 iPn 25 03.30 -0.1

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

% AUG 12, 1990 11h 21m 03.71 ± 0.88s
37.884 N ± 10.3km 15.068 E ± 6.3km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO 0.30 279 Pc 21 09.50 -0.5
eSg 21 17.00

ATN 0.42 48 P 21 12.00 -0.2
iSg 21 21.50

SOI 0.80 76 P 21 19.00 -0.3
GIB 0.83 278 P 21 23.50 3.7X
FAI 1.26 242 P 21 27.50 0.4
eSg 21 44.50

TDS 2.03 29 P 21 38.80 0.5
MGR 2.28 9 P 21 41.80 -0.2
SGO 2.68 4 P 21 48.00 0.4
S.D. = 0.5 on 7 of 8 obs.

? AUG 12, 1990 11h 23m 51.13 ± 2.20s
37.791 N ± 26.7km 15.045 E ± 6.8km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO 0.31 297 P 23 57.40 -0.3
eSg 24 04.00

ATN 0.49 42 P 24 01.30 0.1
eSg 24 09.00

GIB 0.83 284 P 24 07.50 0.3
eSg 24 19.00

SOI 0.85 70 P 24 07.30 -0.1
eSg 24 20.50
S.D. = 0.4 on 4 of 4 obs.

% AUG 12, 1990 11h 41m 50.31 ± 1.02s
43.108 N ± 17.8km 3.796 E ± 6.1km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 2.8 (LDG).

CDR 1.54 68 eP 42 19.40 1.5
eSg 42 37.80

LRG 1.90 79 Pn 42 23.70 0.6
Pg 42 26.80
Sg 42 49.40

LMR 2.00 83 Pn 42 24.90 0.5
Pg 42 28.70
Sg 42 53.20

FRF 2.13 77 Pn 42 26.20 -0.2
Pg 42 30.50
Sg 42 56.40

CAF 2.21 326 Pn 42 26.80 -0.7
Pg 42 31.30
Sg 42 56.70

LPO 2.46 311 Pn 42 31.20 0.1
Pg 42 37.30
Sg 43 07.40

EPF 2.53 269 Pn 42 32.60 0.4
Pg 42 39.80
Sg 43 13.80

RJF 2.74 324 Pg 42 41.00 5.9X
Sg 43 14.20

SBF 2.75 73 Pn 42 34.30 -1.1
Pg 42 42.90
Sg 42 50.00

MAF 3.23 345 Pg 42 50.00 7.9X
Sg 43 27.40

TCF 3.38 341 Pg 42 52.80 8.7X
Sg 43 33.40

BGF 3.52 349 Pg 42 55.00 8.9X
Sg 43 37.50

LSF 3.53 334 Pg 42 55.70 9.4X
Sg 43 38.30

SMF 3.54 1 Pg 42 55.40 9.0X
Sg 43 38.40

PGF 3.87 97 Pn 42 50.10 -1.1
LBF 3.88 2 Pg 43 01.30 10.0X

SSF 3.96 357 Pg 43 02.10 9.7X
S.D. = 1.0 on 9 of 17 obs.

% AUG 12, 1990 11h 43m 50.59 ± 2.16s
40.654 N ± 19.1km 30.122 E ± 20.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

HRT 0.38 296 iPg 43 58.60 0.1
iSg 44 04.60

GPA 0.39 159 iPg 43 58.60 0.0
 YLV 0.58 262 iPg 44 02.30 0.0
 ISK 0.90 297 ePg 44 07.30 -0.6
 CTT 1.37 292 iPn 44 16.30 0.5
 S.D. = 0.6 on 5 of 5 obs.

? AUG 12, 1990 11h 44m 13.96 ± 3.11s
 40.946 N ± 17.2km 20.817 E ± 28.7km
 DEPTH = 10.0km (geophysicist)
 GREECE-ALBANIA BORDER REGION (392)
 ML 2.1 (SKO).

OHR 0.17 355 iPg 44 17.40 -0.4
 FNA 0.45 111 ePc 44 22.70 -0.5
 SKO 1.13 24 iPn 44 35.50 0.4
 LIT 1.53 123 eP 44 41.80 0.4
 S.D. = 0.9 on 4 of 4 obs.

AUG 12, 1990 11h 55m 55.08 ± 0.40s
 44.513 N ± 8.4km 148.721 E ± 7.9km
 DEPTH = 33.0km (normal)
 4.6mb (12 obs.)
 KURIL ISLANDS (221)

MAT 11.28 229 eP 58 36.00 -1.0
 FBA 39.81 37 P 03 27.30 1.0
 GUN 52.10 274 P 05 04.60 0.1
 KKN 52.60 274 P 05 08.80 0.7
 PKI 52.63 274 P 05 08.40 -0.1
 DMN 52.83 274 P 05 10.20 0.3
 0.6s 17.00nm 5.2mb
 GKN 52.93 275 P 05 10.60 0.1
 YKA 54.54 34 eP 05 21.00 -0.6
 0.6s 2.10nm 4.3mb
 PNT 59.02 50 eP 05 53.00 -0.8
 0.6s 4.00nm 4.7mb
 LRM 65.00 50 eP 06 34.30 0.2
 WB5 65.41 195 eP 06 36.20 -0.3
 WRA 65.48 195 P 06 38.00 1.0
 0.7s 2.00nm 4.3mb
 KVN 65.95 58 P 06 40.10 -0.2
 NB2 69.29 339 P 06 59.60 -1.1
 0.4s 0.60nm 4.0mb
 HFS 69.42 338 eP 06 59.70 -1.6
 0.4s 1.30nm 4.3mb
 CLL 77.15 333 iP 07 46.20 -0.5
 0.7s 11.00nm 5.0mb
 GRF 79.12 333 iPc 07 58.10 0.5
 0.7s 9.00nm 4.9mb
 CDF 81.48 335 eP 08 10.00 -0.2
 FLN 83.27 340 eP 08 19.20 -0.1
 LOR 83.50 337 eP 08 20.50 -0.1
 0.6s 1.80nm 4.4mb
 GRR 83.71 340 eP 08 21.80 0.2
 SMF 84.08 337 eP 08 23.70 0.2
 0.9s 4.90nm 4.7mb
 LPL 84.23 334 eP 08 25.10 0.5
 LPG 84.24 334 eP 08 25.30 0.6
 0.7s 2.75nm 4.5mb
 MAF 84.82 337 eP 08 28.00 0.7
 1.0s 6.00nm 4.7mb
 MFF 85.19 339 eP 08 29.70 0.6
 S.D. = 0.7 on 26 of 26 obs.

? AUG 12, 1990 13h 01m 20.00 ± 22.26s
 0.200 S ± 74.6km 78.500 W ± 164.km
 DEPTH = 10.0km (geophysicist)
 ECUADOR (107)

OTO 0.03 267 iP 01 23.20 0.8
 S 01 26.60
 OUR 0.04 314 iPd 01 23.10 0.6
 IS 01 25.80
 GGP 0.10 285 iPd 01 24.30 1.1
 S 01 28.00
 YANA 0.11 320 iPd 01 23.00 -0.3
 IS 01 25.60
 S.D. = 1.0 on 4 of 4 obs.

? AUG 12, 1990 13h 23m 38.86 ± 1.03s
 35.406 N ± 25.1km 26.268 E ± 7.5km
 DEPTH = 33.0km (normal)
 CRETE (370)
 MD 3.6 (ATH).

NPS 0.55 255 ePn 23 50.00 -0.3
 KAP 0.75 79 ePn 23 53.70 0.7
 VAM 1.69 271 ePn 24 06.50 0.0
 ARG 1.71 61 ePn 24 06.10 -0.7
 VLI 3.00 297 ePn 24 25.50 0.3
 S.D. = 0.8 on 5 of 5 obs.

% AUG 12, 1990 15h 19m 53.51 ± 1.35s
 44.818 N ± 8.2km 6.820 E ± 20.1km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 1.9 (GEN).

RRL 0.11 346 P 19 56.37 -0.1
 S 19 58.83
 PZZ 0.37 147 P 20 01.70 0.5
 S 20 07.42
 STV 0.68 148 P 20 06.72 -0.3
 S 20 16.36
 LSD 0.68 20 P 20 07.44 0.2
 S 20 17.28
 ENR 0.73 144 P 20 08.01 0.1
 S 20 18.46
 ROB 0.92 124 P 20 10.67 -0.4
 S.D. = 0.4 on 6 of 6 obs.

& AUG 12, 1990 15h 26m 09.16s
 60.070 N 152.505 W
 DEPTH = 99.9km
 SOUTHERN ALASKA (2)
 <AGS-P>.

RED 0.37 339 iP 26 23.54 -0.9
 IS 26 34.55
 RDT 0.51 6 eP 26 24.37 -0.9
 IS 26 35.73
 HOM 0.60 133 iP 26 25.34 -0.6
 IS 26 38.14
 NNL 0.61 92 iP 26 26.00 0.0
 XLV 0.73 147 eP 26 25.95 -1.2
 AUE 0.84 212 iP 26 27.40 -0.7
 eS 26 41.64
 CNPM 0.84 130 iP 26 27.34 -0.9
 eS 26 41.36
 BRK 0.87 110 eP 26 27.52 -1.0
 eS 26 41.84
 AUI 0.87 213 eP 26 27.76 -0.7
 eS 26 40.15
 PDB 0.90 252 iP 26 27.93 -0.8
 IS 26 42.02
 NKA 0.92 42 iP 26 30.31 1.3
 CKL 1.13 4 iP 26 31.27 -0.2
 SPU 1.14 11 iP 26 31.22 -0.2
 IS 26 47.70
 BGL 1.20 3 iP 26 32.17 -0.1
 IS 26 49.42
 CRP 1.21 8 iP 26 32.44 0.0
 eS 26 49.78
 SLKM 1.22 68 eP 26 31.52 -0.9
 eS 26 48.66
 CGLM 1.27 11 iP 26 32.97 -0.1
 IS 26 50.48
 CDD 1.28 207 eP 26 32.17 -1.0
 eS 26 49.01
 MCNL 1.29 227 eP 26 32.27 -0.9
 IS 26 49.16
 NCG 1.35 7 iP 26 33.98 -0.1
 SEW 1.53 87 eP 26 35.06 -1.1
 SUA 1.64 31 eP 26 37.87 0.1
 IS 27 00.12
 SVW 1.86 305 iP 26 39.58 -0.8
 eS 27 01.78
 PMS 1.87 50 eP 26 40.34 -0.2
 IS 27 02.66
 SKT 1.98 13 eP 26 41.56 -0.4
 PWA 2.04 38 iP 26 42.92 0.2
 PLRM 2.25 46 eP 26 44.46 -1.1
 eS 27 11.47
 GH0 2.44 44 eP 26 47.60 -0.6
 CUT 2.58 24 eP 26 49.28 -0.7
 SML 2.68 48 eP 26 50.42 -1.0
 SCM 3.08 53 eP 26 56.23 -0.7
 VZW 3.10 69 eP 26 55.13 -2.0
 VLZ 3.23 68 eP 26 57.12 -1.6
 KLU 3.53 63 eP 27 01.15 -1.8
 TOA 3.69 54 eP 27 03.91 -1.3
 35 obs. associated

? AUG 12, 1990 16h 40m 52.90 ± 17.42s
 33.099 S ± 33.6km 72.800 W ± 137.km
 DEPTH = 33.0km (normal)
 OFF COAST OF CENTRAL CHILE (134)

LNV 1.50 125 iPd 41 17.10 -0.6
 IS 41 31.00
 TACH 1.72 109 iPc 41 19.30 -1.6
 IS 41 35.00
 PEL 1.84 92 iPc 41 22.30 -0.5
 IS 41 39.60
 SAN 1.89 101 eP 41 23.50 0.0
 IS 41 41.00
 JACH 1.97 78 iPc 41 23.90 -0.8
 IS 41 43.20
 CHCH 2.04 115 eP 41 25.30 -0.3
 IS 41 45.90
 PCH 2.05 105 iPc 41 25.20 -0.6
 i 41 48.00
 S.D. = 0.6 on 7 of 7 obs.

AUG 12, 1990 18h 22m 31.36 ± 0.43s
 43.689 N ± 5.2km 16.558 E ± 5.1km
 DEPTH = 5.0km (geophysicist)
 YUGOSLAVIA (383)
 ML 3.2 (TTG). Felt in the Sinj
 area.

HVAR 0.52 189 iPg 22 39.20 -2.5
 IS 22 47.80
 BRY 1.65 118 ePn 23 00.00 -1.2
 eSn 23 24.50
 HCY 1.89 130 iPnd 23 03.50 -1.0
 ISn 23 30.00
 NKY 1.99 115 ePn 23 06.40 0.3
 eSn 23 34.20
 VBY 2.04 333 ePn 23 12.50 5.8X
 ISn 23 29.70
 PLE 2.09 99 ePn 23 08.50 0.9
 eSn 23 39.00
 ZAG 2.17 349 e(Pn) 23 07.40 -1.2
 e(Sn) 23 35.20
 BDV 2.18 129 ePn 23 08.00 -0.8
 eSn 23 39.20
 PTJ 2.25 349 ePn 23 07.40 -2.5
 eSn 23 37.00
 TTG 2.35 121 ePn 23 11.80 0.6
 eSn 23 43.00
 DUI 2.55 218 P 23 17.00 2.9X
 CEY 2.55 324 ePn 23 15.50 1.4
 eSn 23 51.00
 PVY 2.73 112 ePn 23 19.00 2.3
 eSn 23 55.00
 LJU 2.76 329 ePn 23 17.20 0.1
 eSn 23 56.80
 TRI 2.84 316 eP 23 19.80 1.7
 i 24 05.00
 AZI 2.86 235 P 23 20.00 1.6
 ASS 2.91 259 P 23 19.50 0.3
 eSn 23 49.00
 VOY 3.01 322 ePn 23 19.80 -0.9
 eSn 24 00.30
 MNS 3.13 247 Pc 23 21.50 -0.8
 SGO 3.26 197 P 23 30.00 5.8X
 CRE 3.34 271 P 23 25.50 0.0
 PGD 3.51 275 P 23 27.00 -0.8
 eSn 24 03.00
 FVI 3.95 319 P 23 35.00 1.2
 SKO 3.98 114 ePn 23 39.00 4.6X
 OHR 4.06 128 ePn 23 36.00 0.5
 SRO 4.30 16 iP 23 37.90 -1.0
 ZST 4.52 5 eP 23 40.30 -1.7
 e 25 05.10
 FNA 4.61 127 eP 23 44.70 1.4
 SOTA 5.16 315 e(Pn) 23 52.50 1.3
 ISn 25 10.70
 i 25 20.80
 KHC 5.82 340 eP 24 01.50 1.1
 S.D. = 1.4 on 26 of 30 obs.

AUG 12, 1990 21h 25m 21.95 ± 0.08s
 19.435 S ± 2.6km 169.132 E ± 2.5km
 DEPTH = 140.4km (geophysicist)
 6.3mb (64 obs.)
 VANUATU ISLANDS (186)

TPC	88.83	53	eP	38	01.00	-0.5			1.0s	70.00nm	6.2mb			e	44	10.00				
SIT	89.16	27	eP	38	02.10	-0.2	POO	100.77	286	iPdiff38	58.50	2.1	POF	123.09	212	iPKPd	44	04.50	0.8	
GLA	89.33	55	eP	38	04.00	0.1	YKA	100.89	27	ePdiff38	55.20	-0.6		0.5s	33.00nm					
KVN	89.42	48	P	38	04.00	-0.3		0.8s	76.80nm		6.4mb		FISA	123.26	89	iPKPd	44	04.00	-0.5	
BMW	89.48	40	P	38	04.50	0.2	LNV	101.65	132	iPdiff39	00.00	0.1	TEH	123.35	300	ePKP	44	04.00	-0.2	
LSA	89.55	302	P	38	08.50	3.0X	TACH	102.14	132	ePdiff39	03.00	0.8	BRF	123.38	289	ePKP	44	04.70	0.4	
			SKS	48	22.00		CHCH	102.19	133	ePdiff39	03.00	0.6		0.6s	159.00nm					
			S	48	45.00		SAN	102.44	132	ePdiff39	04.50	1.0	BBU	123.51	289	ePKP	44	05.00	0.4	
IMA	89.73	14	eP	38	03.90	-1.2	PCH	102.45	132	ePdiff39	04.00	0.3		0.7s	248.00nm					
	1.7s	587.60nm				6.4mb	PEL	102.60	132	iPdiff39	04.60	0.3	GDH	123.80	17	ePdiff40	40	00.00	2.6	
			i	38	06.20	7kMx		1.7s	134.62nm		6.5mb				e	41	35.00			
GMW	90.27	39	P	38	08.00	0.2	MEO	102.64	57	iPdiff39	04.80	0.4	GDH	123.80	17	iPKPc	44	04.00	0.1	
COL	90.29	17	ePc	38	05.61	-1.9	MBC	104.45	14	ePdiff39	12.00	0.6		0.6s	42.67nm					
			ec	38	10.07		FFC	105.00	37	ePdiff39	14.00	-0.3			e	44	50.00			
			ePP	41	37.55			1.2s	28.00nm		6.2mb				i	45	51.00			
FBA	90.29	17	eP	42	34.91		RTRS	105.10	130	e(Pdiff39	16.20	0.9			i	58	12.00			
PGC	90.41	38	eP	38	08.00	-0.3	TUL	105.12	57	ePdiff39	15.60	0.3	DHR	123.81	289	ePKP	44	05.50	0.3	
	1.1s	1529.00nm				7.0mb		1.0s	4.30nm		5.4mb		MORO	124.11	90	ePKP	44	05.50	-0.8	
LON	90.47	40	ePc	38	08.46	-0.3	RTLL	105.16	132	ePdiff39	16.30	0.6	HRV	124.35	51	iPdiff40	45	15.17	4.6X	
			ec	38	12.10		CFA	105.17	132	ePdiff39	15.90	0.2			eSKS	50	51.80			
HYT	90.71	23	P	38	08.90	-0.8	UYO	105.80	59	ePdiff39	19.40	1.0			eSP	52	08.78			
MCW	90.79	38	P	38	10.50	0.3	FRU	106.18	310	e(Pdiff39	22.80	2.9			eS	53	40.53			
RMW	90.81	39	P	38	10.50	0.1				e(SKS)49	46.00				e	54	54.47			
PNT	92.96	38	ePc	38	19.00	-1.1	POW	108.83	57	PKP	43	35.20	-1.1	PLAV	124.60	91	iPKP	44	06.50	-0.8
	1.1s	441.00nm				6.6mb	CCM	109.12	55	ePdiff39	32.42	-0.6	KEV	124.71	345	ePKPc	44	05.27	-0.3	
DPW	93.17	40	P	38	22.40	1.2				ec	39	36.06				ec	44	07.92		
GUN	93.20	298	PKP	38	24.20	2.0	QUE	109.75	296	ePdiff39	39.50	3.2X			e	44	50.00			
MSU	93.44	50	P	38	23.50	0.6	LPA	109.87	140	ePdiff39										

			i	54	17.00		BUC	140.45	317	ePKP	44	29.00	-7.1X			i	45	24.10		
TCE	130.25	92	ePKP	44	16.37	-1.5	UZH	140.49	325	PKPd	44	33.00	-3.1X			i	46	06.60		
AAE	130.94	265	ePKP	44	21.00	1.4	BUC1	140.52	317	ePKPd	44	28.00	-8.2X			i	47	10.10		
MGH	131.25	85	ePKP	44	17.00	-2.7	DST	140.59	309	ePKP	44	31.00	-5.6X			i	48	04.50		
BBL	131.70	86	ePKP	44	16.00	-4.6X	MTUR	140.72	319	ePKP	44	32.00	-4.7X			i	54	33.30		
NUR	131.87	337	ePKP	44	06.00	-13.6X	KRA	140.84	328	ePKP	44	31.30	-5.3X			i	56	13.20		
	0.9s	37.20nm						1.0s	372.00nm					PLG	143.99	313	ePKP	44	39.00	-2.7
			i	44	10.20					i	44	35.30		WIT	144.00	342	ePKP	44	40.50	-1.5
			i	44	19.40					i	44	38.80				epP	45	28.00		
			e	45	04.00				e	48	37.00				ePP	48	03.00			
			e	46	44.00		KSL	140.86	304	ePKP	44	31.90	-5.2X	PAIG	144.01	312	ePKP	44	42.40	-0.1
			e	47	22.00		EDC	140.89	311	iPKP	44	32.70	-4.4X	KNT	144.02	314	iPKPc	44	40.30	-2.2
			e	48	30.00		CEI	140.95	324	ePKP	44	33.00	-3.9X	SOP	144.08	328	iPKPc	44	42.20	-0.1
			e	56	00.00		JMB	140.97	314	iPKP	44	33.00	-4.1X	MOX	144.12	335	PKPc+	44	40.00	-2.3
			e	57	28.00		TNR	140.99	320	ePKPd	44	32.00	-5.1X		2.0s	5539.00nm				
			e	04	06.00		DHLJ	141.15	295	PKPd	44	30.80	-7.0X				ipPKP	45	20.00	
MGG	131.94	86	ePKP	44	19.00	-2.0	SPC	141.23	327	iPKP	44	33.70	-4.0X	VAY	144.17	315	iPKPd	44	40.60	-2.1
RGS	134.06	347	ePKP	44	14.30	-9.3X	KGT	141.25	311	iPKP	44	34.00	-3.7X		1.0s	2105.00nm				
REY	134.71	7	iPKPc	44	26.40	1.6	PVL	141.48	316	iPKPd	44	34.00	-4.0X	NPS	144.20	304	ePKP	44	41.90	-1.1
			e	47	40.40		DRA	141.48	319	ePKP	44	36.00	-2.0	THE	144.21	314	iPKPc	44	40.70	-2.1
KVT	134.74	309	ePKP	44	13.50	-12.2X	YER	141.60	306	ePKP	44	36.00	-2.5	HOF	144.27	335	iPKPc	44	40.50	-2.1
UPP	134.76	340	iPKP	44	23.90	-1.2	DEV	141.69	321	ePKPc	44	35.00	-3.3X	GRG	144.45	314	ePKPd	44	41.20	-2.0
			i	47	06.10		DIM	141.85	314	iPKP	44	35.00	-3.7X	KHC	144.46	332	iPKPc	44	41.50	-1.5
			i	47	39.80		ALN	141.97	312	ePKPd	44	34.50	-4.5X		1.0s	585.00nm				
MOL	135.06	348	ePKP	44	14.31	-11.2X	ARG	141.97	304	ePKP	44	35.60	-3.5X				e	45	29.70	
LWI	135.48	245	iPKPd	44	15.50	-12.7X	IZM	141.99	308	iPKP	44	35.30	-3.9X	NEO	144.59	311	ePKP	44	41.80	-1.7
NB2	135.61	345	PKP	44	13.90	-12.9X	KSP	142.01	332	ePKP	44	34.00								

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13d 01h

TIO 4.81 213 i 47 08.00
 46 53.80 -5.3X
 47 41.00
 47 56.50
 S.D. = 1.6 on 5 of 6 obs.

AUG 13, 1990 02h 10m 06.11 ± 0.51s
 42.212 N ± 4.6km 24.011 E ± 4.8km
 DEPTH = 10.0km (geophysicist)

BULGARIA (359)
 MD 3.0 (THE), 2.9 (ATH).

PGB 0.36 19 iPg 10 13.00 -0.5
 iSg 10 20.00
 PLD 0.53 102 iPg 10 16.00 -0.7
 iSg 10 23.00
 MMB 0.66 199 iPg 10 18.00 -1.2
 iPg 10 20.00
 VTS 0.71 303 iPg 10 20.00 -0.1
 KKB 0.77 244 iPg 10 20.00 -1.2
 SRS 1.14 196 ePg 10 26.40 -1.0
 eSg 10 42.00
 KNT 1.34 219 iPbd 10 30.20 -0.6
 eSb 10 47.70
 VAY 1.40 231 iPn 10 32.20 0.6
 RDO 1.56 132 ePb 10 33.50 -0.4
 GRG 1.74 224 ePbd 10 37.70 1.1
 eSb 11 00.40
 THE 1.76 207 ePbc 10 37.70 0.8
 eSb 10 59.40
 OUR 1.88 181 ePb 10 38.60 0.1
 PLG 1.89 193 ePb 10 38.80 0.1
 SKO 1.93 264 ePn 10 43.00 3.7X
 ALN 2.01 130 ePnc 10 42.30 1.8
 eSn 11 08.00
 FNA 2.44 235 ePnc 10 47.60 0.9
 KZN 2.54 222 ePn 10 52.90 4.7X
 BZS 3.82 334 ePc 11 06.50 0.3
 S.D. = 1.0 on 16 of 18 obs.

% AUG 13, 1990 02h 29m 36.52 ± 1.08s
 39.249 N ± 9.3km 29.155 E ± 11.6km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

DST 0.54 311 iPg 29 45.80 -1.7
 eSg 29 52.80
 ALT 0.77 104 ePg 29 50.00 -1.6
 KHL 0.97 163 iPg 29 56.10 1.1
 iSg 30 08.60
 IZI 1.11 13 ePn 29 58.30 0.8
 KCT 1.17 329 iPn 29 59.40 1.0
 YLV 1.33 7 iPn 30 01.40 0.3
 S.D. = 1.7 on 6 of 6 obs.

AUG 13, 1990 02h 34m 44.51 ± 0.59s
 40.647 N ± 6.0km 19.944 E ± 5.4km
 DEPTH = 10.0km (geophysicist)

ALBANIA (391)
 MD 3.3 (ATH), ML 3.2 (SKO).

TPE 0.36 172 iPg 34 49.50 -2.3
 VLO 0.39 243 iPg 34 52.90 0.5
 TIR 0.70 355 iPg 34 57.50 -0.8
 LSK 0.71 135 iPg 34 57.00 -1.5
 SRN 0.77 177 iPg 35 00.20 0.7
 OHR 0.80 54 iPg 34 58.70 -1.3
 iSg 35 10.50
 KEK 0.94 187 ePb 35 04.50 2.1
 SDA 1.41 346 iPnd 35 12.00 1.9
 KZN 1.43 103 ePb 35 11.00 0.4
 LCI 1.55 259 Pd 35 11.50 -0.6
 iSg 35 32.20
 LIT 2.02 105 ePc 35 20.70 1.7
 BRT 2.09 277 P 35 24.00 3.9X
 eSg 35 55.00
 EVR 2.25 140 ePb 35 28.80 6.4X
 BAI 2.38 282 P 35 23.00 -1.2
 PLG 2.68 95 ePn 35 29.10 0.5
 NEO 2.85 117 ePn 35 34.90 4.0X
 MGR 3.39 263 P 35 38.00 -0.5
 SGO 3.53 270 P 35 41.00 0.5
 S.D. = 1.4 on 15 of 18 obs.

AUG 13, 1990 02h 47m 04.50 ± 0.72s
 5.335 N ± 11.1km 31.882 E ± 12.3km
 DEPTH = 10.0km (geophysicist)
 4.7mb (11 obs.) 4.1msz (1 obs.)

SUDAN

AAE 7.75 61 eP 48 58.50 -2.0
 NAI 8.20 143 iPc 49 08.50 1.9
 S 50 33.00
 BCAO 13.33 267 iPc 50 14.40 -2.0
 0.7s 24.00nm 5.4mb
 iS 52 53.50
 Lg 53 49.90
 KRI 22.14 186 iPd 52 01.20 -1.1
 iSn 56 03.00
 iLg 58 26.00
 BUL 25.52 187 eP 52 29.30 -5.8X
 iPn 52 34.00
 iLg 00 09.00
 BNI 45.27 335 P 55 27.00 2.8
 LPG 45.60 335 eP 55 26.80 -0.2
 0.9s 4.90nm 4.5mb
 LPL 45.62 335 eP 55 26.90 -0.2
 1.0s 5.00nm 4.4mb
 KHC 46.32 343 eP 55 33.00 0.7
 TOL 47.20 322 eP 55 42.00 2.6
 CAF 47.26 331 ePKP 55 40.00 0.2
 1.3s 12.65nm 4.8mb
 SMF 47.75 334 iPc 55 43.80 0.2
 1.0s 7.00nm 4.7mb
 MAF 47.99 333 eP 55 43.65 -1.9
 1.0s 6.00nm 4.6mb
 AVF 48.07 334 eP 55 46.40 0.3
 1.1s 7.35nm 4.7mb
 TCF 48.20 333 iPc 55 48.20 1.0
 1.0s 9.00nm 4.8mb
 LOR 48.22 335 eP 55 47.40 0.1
 0.9s 4.10nm 4.5mb
 Z 20s 0.22um 4.1msz
 NUR 55.32 356 iP 56 40.00 -0.4
 SUF 57.42 357 iP 56 54.80 -0.6
 0.6s 3.80nm 4.6mb
 N82 57.72 348 P 56 56.20 -1.4
 1.1s 8.80nm 4.7mb
 SOD 62.04 358 eP 57 24.00 -3.1X
 S.D. = 1.5 on 18 of 20 obs.

AUG 13, 1990 02h 47m 35.62 ± 0.69s
 43.144 N ± 7.5km 17.713 E ± 6.8km
 DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)

HVAR 0.93 273 iPg 47 53.00 -0.3
 iSg 48 08.80
 BRT 2.30 190 P 48 18.50 4.4X
 LCI 2.81 176 P 48 30.00 8.6X
 SKO 2.99 112 ePn 48 26.00 2.0
 PTJ 3.03 336 ePn 48 23.70 -0.8
 eSn 49 00.40
 OHR 3.06 130 ePn 48 26.00 1.0
 SGO 3.15 216 P 48 25.00 -1.1
 MGR 3.41 209 P 48 29.00 -0.9
 CEY 3.50 319 eP 48 42.00 10.8X
 e(Sn) 49 20.00
 LJU 3.68 323 eP 48 49.00 15.2X
 e(Sn) 49 21.00
 ASS 3.70 271 P 48 35.00 0.9
 BZS 3.73 47 eP 48 32.00 -2.5
 MNS 3.78 260 P 48 34.50 -0.8
 TRI 3.82 314 P 48 49.00 13.3X
 VOY 3.97 318 ePn 48 39.40 1.4
 eSn 49 27.50
 CRE 4.23 279 P 48 43.00 1.4
 SOI 5.22 195 P 48 55.00 -0.6
 SOTA 6.14 314 e(Pn) 49 09.00 0.3
 e(Sn) 50 12.00
 S.D. = 1.4 on 13 of 18 obs.

AUG 13, 1990 03h 51m 12.63 ± 0.37s
 43.422 N ± 4.0km 18.832 E ± 3.5km
 DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)
 MD 2.9 (TTG).

PLE 0.42 103 iPg 51 21.40 0.2
 iSg 51 28.50
 BRY 0.56 202 iPg 51 22.40 -1.7
 iSg 51 31.00
 NKY 0.62 169 ePg 51 24.00 -1.2
 iSg 51 33.60
 IVA 0.95 125 iPg 51 30.60 -0.3

(557)

HCY 1.00 194 iSg 51 47.00
 ePg 51 30.80 -0.9
 eSg 51 47.50
 TTG 1.04 162 ePg 51 31.00 -1.3
 eSg 51 47.50
 BDV 1.14 180 ePg 51 34.50 0.5
 eSg 51 53.00
 PVY 1.18 134 ePg 51 34.50 -0.2
 eSg 51 54.50
 ULC 1.49 168 ePg 51 40.50 1.0
 eSg 52 04.20
 HVAR 1.76 263 iPn 51 44.30 1.0
 iSn 52 07.20
 BEO 1.82 39 ePn 51 46.50 2.3
 SKO 2.41 126 iPn 51 53.00 0.3
 OHR 2.73 147 ePn 52 01.20 3.8X
 BRT 2.82 206 P 52 03.40 4.9X
 BZS 2.96 41 ePc 51 59.00 -1.5
 LCI 3.16 192 P 52 12.00 8.7X
 PTJ 3.22 321 ePn 52 02.20 -2.0
 eSn 52 39.70
 VBY 3.30 310 eP 52 05.60 0.2
 e(Sn) 52 12.30
 VTS 3.32 103 eP 52 06.00 0.3
 VAY 3.40 126 ePn 52 15.00 7.2X
 KKB 3.50 115 eP 52 09.00 0.8
 DUI 3.68 243 P 52 14.50 3.6X
 SGO 3.88 224 P 52 15.00 1.4
 CEY 3.91 308 eP 52 22.50 8.5X
 e(Sn) 53 23.50
 LJU 4.03 312 ePn 52 15.30 -0.4
 e(Sn) 53 20.00
 MGR 4.10 218 P 52 17.00 0.4
 AZI 4.23 252 P 52 20.00 1.5
 VOY 4.38 308 ePn 52 19.90 -0.9
 e(Sn) 53 32.00
 ASS 4.52 268 P 52 22.50 -0.2
 MNS 4.64 259 P 52 25.00 0.6
 CRE 5.01 275 P 52 30.00 0.3
 PGD 5.18 277 P 52 32.50 0.3
 FVI 5.33 309 P 52 34.00 -0.2
 SOTA 6.58 308 iPnd 52 51.60 -0.3
 e 54 07.00

S.D. = 1.1 on 28 of 34 obs.

? AUG 13, 1990 04h 40m 57.04 ± 7.48s
 44.786 N ± 13.7km 6.688 E ± 80.4km
 DEPTH = 10.0km (geophysicist)

FRANCE (538)
 ML 1.8 (GEN).

RRL 0.15 27 P 41 00.33 -0.4
 S 41 03.00
 PZZ 0.41 134 P 41 05.46 0.0
 S 41 11.10
 STV 0.71 140 P 41 11.40 0.3
 S 41 20.32
 LSD 0.75 26 P 41 12.22 0.3
 ENR 0.77 137 P 41 11.71 -0.4
 S.D. = 0.5 on 5 of 5 obs.

AUG 13, 1990 05h 03m 09.09 ± 0.68s
 40.648 N ± 5.9km 19.936 E ± 6.7km
 DEPTH = 10.0km (geophysicist)

ALBANIA (391)
 MD 3.1 (ATH), ML 2.8 (SKO).

TPE 0.36 171 iPg 03 14.10 -2.3
 VLO 0.38 242 iPg 03 17.40 0.5
 TIR 0.70 356 iPg 03 22.00 -0.9
 LSK 0.71 134 iPg 03 23.00 -0.2
 SRN 0.77 176 ePg 03 23.20 -0.9
 OHR 0.80 54 iPg 03 23.20 -1.5
 eSg 03 35.50
 KEK 0.94 186 ePb 03 29.00 2.0
 PUK 1.39 359 iPnc 03 36.30 1.8
 SDA 1.41 347 ePn 03 23.80 -10.9X
 KZN 1.44 103 ePb 03 37.00 1.7
 LCI 1.54 259 P 03 35.90 -0.7
 eSn 03 55.20
 SKO 1.74 40 ePn 03 39.30 -0.2
 iSn 04 03.80
 LIT 2.03 105 ePd 03 45.10 1.4
 BRT 2.09 277 P 03 49.80 5.2X
 eSn 04 16.60
 VAY 2.10 71 ePn 03 43.40 -1.4
 PLG 2.69 95 ePn 03 54.00 0.8

13d 05h

S.D. = 1.5 on 14 of 16 obs.
 ? AUG 13, 1990 05h 26m 43.56± 0.97s
 14.360 S ± 32.8km 73.353 W ± 18.0km
 DEPTH = 33.0km (normal)

PERU (116)

PT06 2.94 280 iPd 27 28.90 -0.1
 e(S) 28 02.80
 PT02 3.31 295 eP 27 34.40 0.0
 eS 28 14.40
 PT08 3.92 307 iP 27 43.30 0.0
 eS 28 29.50
 NNA 4.14 304 iP 27 45.00 -1.1
 0.6s 26.00nm
 i 27 47.50
 iS 28 35.00
 PT10 4.19 302 eP 27 48.00 1.2
 iS 28 39.00
 CNCB 5.72 116 P 28 09.00 0.0

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

AUG 13, 1990 06h 18m 25.18± 1.02s
 36.663 N ± 9.8km 49.884 E ± 4.3km
 DEPTH = 34.8 ± 10.6 km
 4.6mb (26 obs.) 3.7Msz (4 obs.)
 WESTERN IRAN (347)
 Felt at Rasht and Rudbar.

TEH 1.53 127 iP 18 50.50 -0.2
 TAB 3.16 297 eP 19 15.00 1.1
 i 19 20.00
 KER 3.23 225 eP 19 20.00 5.1X
 MAIO 7.75 90 iPc 20 17.00 -1.6
 0.9s 29.41nm 5.3mb
 eS 21 45.00
 BBTk 13.83 288 eP 21 32.00 -9.1X
 QUE 15.63 109 eP 22 09.00 4.2X
 VRI 19.63 305 ePc 22 54.00 0.3
 MLR 20.03 304 eP 22 58.00 0.0
 KSH 20.71 74 P 23 06.30 1.2
 VAY 21.69 291 eP 23 17.40 2.5
 SKO 22.58 292 eP 23 25.50 1.8
 8.0s 857.00nm 5.3mb X
 Z 17s 0.71um 4.2MszX
 E 19s 0.79um

iS 27 37.00
 LR 32 59.60
 OHR 23.02 290 eP 23 26.20 -1.9
 KRA 25.36 311 eP 23 51.80 1.4
 SOI 26.84 283 P 24 03.00 -1.2
 DUI 27.79 291 P 24 13.50 0.6
 KSP 27.82 311 eP 24 11.50 -1.5
 AZI 28.55 292 P 24 21.00 1.4
 NUR 28.77 334 iP 24 21.00 -0.5
 0.6s 11.70nm 4.8mb

KHC 29.08 307 P 24 26.00 1.5
 WMO 29.54 64 P 24 29.00 0.3
 CRE 29.62 295 P 24 30.00 0.5
 PGD 29.79 296 P 24 32.50 1.4
 SUF 29.91 338 iP 24 31.60 -0.1
 0.6s 4.70nm 4.4mb

CLL 29.94 311 e(P) 24 44.00 11.9X
 SOTA 30.36 303 iPd 24 35.20 -0.7
 0.9s 23.10nm 5.0mb

GKN 30.48 96 P 24 36.50 -0.7
 0.8s 28.00nm 5.1mb

DMN 31.02 97 P 24 41.80 -0.3
 0.8s 38.00nm 5.2mb

KKN 31.08 96 P 24 41.20 -1.4
 PKI 31.28 97 P 24 44.60 0.1
 MDI 31.28 300 P 24 43.50 -0.4
 GUN 31.51 96 P 24 46.60 0.1
 HFS 32.91 327 eP 24 57.10 -0.9
 0.7s 13.70nm 5.0mb

Z 19s 0.12um 3.6Msz
 LR 34 40.00
 LPG 33.35 299 eP 25 00.30 -2.1
 0.7s 6.60nm 4.6mb

LPL 33.36 299 eP 25 00.50 -1.9
 0.8s 5.35nm 4.5mb

BN1 33.41 298 P 25 03.00 0.3
 SOD 33.48 344 iP 25 02.30 -0.6
 GBA 33.68 126 P 25 04.50 -0.6
 0.8s 6.30nm 4.6mb

NB2 34.42 327 P 25 10.10 -1.0
 0.7s 4.20nm 4.5mb

LOR 35 36 302 eP 25 18.00 -1.3
 0.8s 4.05nm 4.4mb
 Z 21s 0.13um 3.6Msz

SMF 35.37 301 eP 25 18.20 -1.2
 1.1s 7.35nm 4.5mb

KEV 35.39 346 eP 25 19.00 -0.2
 AVF 35.70 301 eP 25 21.20 -1.0
 0.8s 3.35nm 4.3mb

MAF 36.26 300 eP 25 26.80 -0.1
 0.8s 5.35nm 4.5mb

TCF 36.51 300 eP 25 29.20 0.2
 0.6s 2.70nm 4.3mb

CAF 36.68 298 eP 25 31.40 0.9
 0.7s 3.30nm 4.3mb

LDF 38.03 304 eP 25 42.30 0.6
 0.6s 4.50nm 4.5mb

MFF 38.12 301 eP 25 41.80 -0.7
 0.8s 8.05nm 4.6mb

FLN 38.27 305 eP 25 43.80 0.1
 0.6s 4.50nm 4.5mb

Z 21s 0.13um 3.7Msz
 GRR 38.52 304 eP 25 45.20 -0.6
 0.7s 12.15nm 4.8mb

LPF 38.66 303 eP 25 47.10 0.1
 0.8s 6.70nm 4.5mb

GTA 39.02 70 eP 25 51.40 1.1
 1.2s 10.00nm 4.5mb

EKA 40.17 315 Pd 25 58.80 -0.6
 0.7s 2.30nm 4.0mb

LZH 42.96 74 eP 26 24.00 1.3
 1.8s 35.00nm 4.8mb
 BCAA 43.09 229 ePc 26 24.30 0.6
 0.7s 9.00nm 4.6mb

CD2 44.66 81 eP 26 36.40 0.0
 CHG 46.40 99 eP 26 51.00 0.8
 XAN 47.56 75 P 26 59.50 0.1
 GYA 48.82 85 P 27 10.00 0.7
 TIY 49.00 69 eP 27 11.20 0.8

Z 18s 0.20um 4.2Msz
 SSE 58.22 73 eP 28 13.00 -5.3X
 IMA 75.99 10 eP 30 10.40 0.2
 FBA 77.82 8 eP 30 21.20 1.1

S.D. = 1.0 on 57 of 62 obs.

& AUG 13, 1990 06h 21m 31.92s
 59.569 N 152.506 W
 DEPTH = 74.5km
 SOUTHERN ALASKA (2)
 <AGS-P>

XLV 0.42 106 eP 21 44.01 -0.6
 eS 21 53.59

HOM 0.45 78 iP 21 44.69 -0.1
 iS 21 54.72

AUE 0.49 245 iP 21 44.64 -0.6
 iS 21 55.29

AUI 0.53 244 eP 21 44.92 -0.6
 eS 21 54.18

CNPM 0.65 93 iP 21 46.14 -0.7
 eS 21 57.34

NNL 0.77 52 iP 21 48.45 0.3
 eS 22 00.77

BRLK 0.85 76 iP 21 48.20 -0.9
 eS 22 01.19

RED 0.86 351 iP 21 48.77 -0.6
 eS 22 02.28

CDD 0.87 223 eP 21 48.30 -1.0
 eS 22 01.07

PDB 0.88 285 iP 21 48.38 -1.1
 iS 22 01.55

SHU 0.95 175 eP 21 49.44 -0.8
 eS 22 03.45

RDT 1.01 3 iP 21 50.39 -0.7
 iS 22 04.81

MCNL 1.01 248 eP 21 49.73 -1.4
 eS 22 03.76

NKA 1.34 28 eP 21 56.44 1.2
 1.48 50 eP 21 56.27 -1.0

SEW 1.63 70 eP 21 57.79 -1.4
 1.63 8 iP 21 58.96 -0.3

CKL 1.64 3 iP 21 58.93 -0.4
 BGL 1.70 2 eP 21 59.95 -0.3

CRP 1.71 6 eP 22 00.33 -0.1
 CGLM 1.76 8 eP 22 00.71 -0.4

NCG 1.85 5 eP 22 01.76 -0.5
 SUA 2.09 24 eP 22 05.58 0.0

PMS 2.23 40 iP 22 06.75 -0.7
 PWA 2.46 31 iP 22 10.39 -0.1

SKT 2.47 11 eP 22 09.84 -0.9
 PLRM 2.63 38 eP 22 11.34 -1.5

GHO 2.83 37 iP 22 14.61 -1.2
 SML 3.04 41 iP 22 17.25 -1.5

VZW 3.32 61 eP 22 19.83 -2.7
 VLZ 3.45 60 eP 22 21.77 -2.5

31 obs. associated
 AUG 13, 1990 06h 44m 09.54± 0.71s
 42.996 N ± 10.4km 17.847 E ± 6.3km
 DEPTH = 10.0km (geophysicist)
 ADRIATIC SEA (382)
 ML 2.9 (TTG).

BRY 0.52 100 ePg 44 19.00 -1.1
 eSg 44 28.00

HCY 0.73 139 ePg 44 23.20 -0.7
 eSg 44 35.50

NKY 0.87 102 ePg 44 25.50 -0.8
 eSg 44 40.00

BDV 1.02 134 ePg 44 28.60 -0.2
 eSg 44 45.00

HVAR 1.04 281 iPg 44 29.10 -0.1
 iSg 44 43.90

PLE 1.18 73 ePg 44 31.20 -0.4
 eSg 44 48.60

TTG 1.19 118 ePg 44 32.30 0.7
 eSg 44 50.00

IVA 1.51 94 ePg 44 37.70 1.0
 eSg 44 59.40

PVY 1.62 104 ePn 44 40.00 1.7
 eSn 45 04.00

SKO 2.85 110 e(Pn) 45 13.00 17.1X
 e 45 15.60
 e 45 30.60
 e 45 39.30

OHR 2.89 130 e(Pn) 45 10.50 13.9X
 VOY 4.15 318 (Pn) 45 14.20 -0.2
 eSn 46 06.80
 eSg 46 21.80

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

* AUG 13, 1990 08h 00m 47.40± 0.95s
 5.623 S ± 12.4km 150.249 E ± 12.1km
 DEPTH = 33.0km (normal)
 4.6mb (2 obs.)
 NEW BRITAIN REGION (192)

MTN 20.18 248 iPc 05 21.30 -0.8
 RMO 20.80 184 eP 05 28.00 -0.5
 eS 05 39.00

WB5 20.96 226 iPd 05 30.20 0.0
 i 05 47.50

WRA 21.02 226 Pc 05 31.00 0.2
 0.4s 3.70nm 4.1mb

BRS 21.78 174 iPc 05 39.00 0.5
 DZM 22.64 138 iPc 05 47.00 -0.1

KNA 23.36 243 eP 05 55.60 1.6
 MBL 33.28 239 iPc 07 23.30 -0.9
 0.4s 9.00nm 5.0mb

MAT 43.43 346 eP 08 49.00 0.1
 S.D. = 0.9 on 9 of 9 obs.

* AUG 13, 1990 08h 46m 45.94± 1.41s
 12.225 N ± 16.3km 93.701 E ± 12.2km
 DEPTH = 33.0km (normal)
 4.5mb (2 obs.)
 ANDAMAN ISLANDS REGION (703)

NNT 5.90 86 eP 48 06.00 -7.5X
 PCT 7.89 71 eP 48 40.00 -1.3

CHG 8.27 37 eP 48 47.50 0.9
 PKI 17.13 334 P 50 45.60 0.7
 DMN 17.29 334 P 50 46.40 -0.4
 KKN 17.38 334 P 50 46.40 -1.4
 GKN 17.84 333 P 50 53.80 0.3
 LZH 25.46 19 eP 52 13.60 0.8
 3.0s 84.00nm 4.8mb
 WRA 51.20 128 P 55 49.00 0.4
 1.0s 2.40nm 4.1mb
 S.D. = 1.1 on 8 of 9 obs.

% AUG 13, 1990 08h 56m 02.09± 0.95s

13d 08h

39.132 N \pm 7.8km 27.669 E \pm 9.7km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

IZM 0.80 204 ePg 56 17.40 -0.2
 iSg 56 28.40
 DST 0.88 57 iPn 56 19.60 0.6
 EDC 1.22 7 ePn 56 24.90 0.1
 BNT 1.24 9 iPn 56 24.20 -0.9
 EZN 1.25 304 iPn 56 25.80 0.5
 S.D. = 0.8 on 5 of 5 obs.

? AUG 13, 1990 10h 37m 00.80 \pm 17.19s
 32.140 S \pm 120.0km 71.552 W \pm 71.8km
 DEPTH = 33.0km (normal)
 NEAR COAST OF CENTRAL CHILE (135)

ROCH 0.95 151 iPd 37 17.50 -0.5
 i 37 37.00
 JACH 0.97 124 iPc 37 17.70 -0.6
 iS 37 38.50
 PEL 1.24 144 eP 37 22.00 0.1
 i 37 23.60
 iS 37 49.00
 FCH 1.59 138 eP 37 28.00 0.7
 i 37 57.00
 TACH 1.59 161 eP 37 25.50 -1.6
 PCH 1.72 150 eP 37 31.00 2.1
 i 38 03.20
 LNV 1.81 176 iPc 37 31.00 0.8
 iS 38 02.50
 CHCH 1.94 157 iP 37 31.10 -1.0
 i 38 00.50
 i 38 07.70
 S.D. = 1.4 on 8 of 8 obs.

AUG 13, 1990 10h 52m 47.67 \pm 0.52s
 46.265 N \pm 4.2km 7.503 E \pm 6.9km
 DEPTH = 10.0km (geophysicist)
 SWITZERLAND (544)
 ML 2.4 (LDG).

DIX 0.20 199 iPc 52 51.90 -0.2
 MMK 0.39 123 ePc 52 56.10 0.4
 ORX 0.72 152 P 53 02.10 0.3
 S 53 12.15
 LSD 0.84 197 P 53 03.23 -0.9
 S 53 15.33
 LPL 0.92 216 Pg 53 04.60 -0.8
 Sg 53 17.00
 LPG 0.93 215 Pg 53 04.80 -0.8
 Sg 53 17.10
 RSP 1.13 189 P 53 09.59 0.7
 S 53 23.84
 LLS 1.19 59 ePc 53 09.70 -0.4
 RRL 1.44 201 P 53 15.23 1.3
 BSF 1.64 343 Pg 53 16.50 -0.3
 Sg 53 36.30
 SLE 1.65 24 ePd 53 14.70 -2.1
 PZZ 1.78 189 P 53 19.23 0.4
 HAU 1.91 336 Pg 53 21.30 0.7
 Sg 53 44.80
 CDF 2.15 356 Pg 53 26.00 1.8
 Sg 53 52.70
 SMF 2.56 280 Pg 53 33.40 3.5X
 Sg 54 04.50
 S.D. = 1.1 on 14 of 15 obs.

AUG 13, 1990 11h 05m 36.59 \pm 0.33s
 40.672 N \pm 2.9km 23.542 E \pm 3.6km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 MD 3.4 (ATH), 3.3 (THE), ML 3.0 (SKO).

PLG 0.31 194 iPg 05 43.00 0.0
 THE 0.44 265 ePg 05 44.60 -1.0
 eSg 05 50.80
 SRS 0.45 5 iPg 05 45.00 -0.7
 eSg 05 52.10
 OUR 0.48 135 ePg 05 46.60 0.4
 KNT 0.69 315 iPg 05 49.00 -1.3
 iSg 05 58.50
 PAIG 0.75 172 iPg 05 50.70 -0.6
 eSg 06 01.60
 GRG 0.91 289 iPg 05 53.10 -0.9
 iSg 06 05.70

MMB 0.93 9 iPg 05 54.00 -0.3
 VAY 0.98 312 iPg 05 54.70 -0.5
 iSg 06 05.60
 LIT 0.99 235 iPg 05 54.90 -0.4
 eSg 06 08.00
 KKB 1.24 344 iPg 06 00.00 0.3
 RZN 1.35 41 iP 06 03.00 1.5
 NEO 1.39 190 ePb 06 02.00 0.0
 KZN 1.40 255 ePn 06 02.50 0.3
 RDO 1.59 72 ePb 06 04.00 -0.7
 FNA 1.65 275 iPbd 06 05.60 -0.2
 KDZ 1.72 55 iPd 06 06.00 -0.7
 AGG 1.89 210 ePn 06 08.90 -0.4
 ALN 1.91 82 ePn 06 08.40 -1.1
 eSn 06 33.50
 PGB 1.93 14 iP 06 10.00 0.1
 VTS 1.93 353 iP 06 11.00 1.0
 SKO 2.05 310 ePn 06 13.70 2.2
 eSn 06 41.50
 EVR 2.20 218 ePn 06 14.00 0.2
 EZN 2.29 111 ePn 06 18.00 3.0X
 PRK 2.54 123 ePg 06 27.70 9.3X
 MFT 2.84 86 ePn 06 18.00 -4.9X
 VLS 3.38 223 ePn 06 32.50 2.0
 VLI 3.98 187 ePn 06 39.10 0.2
 MLR 5.13 19 eP 06 56.00 0.6
 BZS 5.14 345 ePc 06 50.00 -5.4X
 S.D. = 0.9 on 26 of 30 obs.

% AUG 13, 1990 11h 09m 11.47 \pm 0.73s
 26.361 S \pm 6.4km 27.403 E \pm 7.1km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 3.0 (PRE).

PRY 0.57 174 eP 09 23.00 0.1
 S 09 28.50
 BPI 0.59 72 eP 09 23.20 -0.2
 S 09 29.50
 KSR 0.67 317 iPc 09 25.50 0.6
 S 09 34.00
 SLR 1.01 52 iPd 09 30.10 -1.0
 S 09 42.50
 EVA 1.51 96 eP 10 07.50 28.2X
 S 10 23.50
 SEK 1.97 174 iP 09 47.50 1.6
 S 10 11.00
 BFT 2.47 75 eP 09 54.00 0.8
 S 10 22.50
 BLF 2.94 201 eP 09 58.20 -1.7
 S 10 36.00
 KIM 3.33 224 eP 10 05.20 -0.2
 S 10 45.00
 S.D. = 1.2 on 8 of 9 obs.

? AUG 13, 1990 11h 56m 11.21 \pm 8.72s
 43.330 N \pm 41.0km 6.394 E \pm 52.0km
 DEPTH = 10.0km (geophysicist)
 NEAR SOUTH COAST OF FRANCE (379)

STV 1.14 36 P 56 32.06 -0.5
 S 56 41.18
 ENR 1.16 39 P 56 32.47 -0.6
 S 56 41.29
 IMI 1.23 61 P 56 34.93 0.8
 S 56 46.21
 PZZ 1.28 23 P 56 35.65 0.6
 S 56 46.92
 ROB 1.44 47 P 56 38.11 0.7
 FIN 1.58 56 P 56 38.62 -0.7
 PCP 1.97 51 P 56 44.67 -0.4
 S.D. = 0.8 on 7 of 7 obs.

AUG 13, 1990 12h 43m 16.89 \pm 0.73s
 44.804 N \pm 3.0km 6.747 E \pm 8.4km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.4 (GEN), MD 2.2 (STR).

RRL 0.12 13 P 43 20.37 0.3
 S 43 23.12
 BNI 0.25 348 P 43 22.30 0.0
 eSg 43 26.10
 PZZ 0.39 140 P 43 24.96 0.0
 S 43 32.19
 DOI 0.47 130 P 43 26.30 -0.1
 eSg 43 33.90

RSP 0.50 46 P 43 28.13 1.0
 S 43 35.63
 STV 0.70 143 P 43 30.19 -0.5
 S 43 40.34
 LSD 0.71 24 P 43 30.71 -0.4
 S 43 41.37
 ENR 0.75 140 P 43 31.32 -0.3
 S 43 42.29
 TOUF 0.87 155 Pg 43 33.53 -0.2
 ROB 0.95 122 Pn 43 35.12 0.1
 Pg 43 39.62
 e 43 39.73
 e 43 41.82
 Sn 43 48.87
 Sg 43 56.91
 e 43 57.35
 MVIF 0.95 162 Pg 43 35.43 0.3
 SAOF 1.00 144 Pg 43 36.26 0.4
 Sg 43 51.01
 AURF 1.01 155 Pg 43 36.43 0.4
 ORX 1.20 46 P 43 38.60 -0.8
 S 43 56.25
 S.D. = 0.5 on 14 of 14 obs.

* AUG 13, 1990 13h 30m 13.22 \pm 0.61s
 15.110 S \pm 27.5km 175.769 W \pm 16.5km
 DEPTH = 33.0km (normal)
 4.9mb (11 obs.) 5.2Msz (5 obs.)
 TONGA ISLANDS (173)

MBU 5.61 250 P 31 38.20 1.6
 SVA 6.29 241 eP 31 47.20 1.1
 SGE 6.54 247 eP 31 50.40 0.7
 DZM 18.22 245 iPc 34 24.00 -1.4
 WB5 47.66 257 eP 38 47.30 -1.4
 WRA 47.68 257 Pc 38 47.60 -1.3
 1.1s 13.10nm 4.9mb
 ASPA 48.03 252 eP 38 47.30 -4.3X
 1.0s 33.00nm 5.3mb
 Z 26s 2.02um 5.0MszX
 LR 55 58.20
 GCC 72.45 43 eP 41 39.50 1.0
 SAO 72.66 43 eP 41 40.80 1.0
 BRK 72.77 42 eP 41 40.60 0.3
 PRI 72.83 44 eP 41 41.30 0.4
 MHC 72.86 43 eP 41 44.20 3.1X
 ABL 73.11 46 P 41 42.70 0.0
 PAS 73.47 47 eP 41 47.00 2.5X
 FRI 73.94 44 eP 41 47.50 0.3
 RVR 73.95 47 eP 41 48.00 0.7
 PLM 73.99 48 eP 41 48.00 0.2
 SBB 74.00 47 eP 41 46.00 -1.6
 ISA 74.06 45 eP 41 49.00 1.0
 CMB 74.08 43 eP 41 48.20 0.2
 WDC 74.19 39 eP 41 49.20 0.7
 ORV 74.23 41 eP 41 49.20 0.4
 CLC 74.75 46 eP 41 53.00 1.0
 TPC 74.96 48 eP 41 53.00 -0.2
 GSC 75.03 47 eP 41 53.00 -0.7
 LBFM 75.04 39 P 41 53.60 -0.1
 GLA 75.32 49 P 41 53.50 -1.8
 KVN 76.13 43 P 41 59.10 -0.9
 BMW 77.36 34 P 42 06.80 0.3
 LON 78.31 35 P 42 11.50 -0.2
 RMW 78.74 34 P 42 14.40 0.4
 TTA 79.31 9 P 42 14.20 -2.6
 1.1s 26.56nm 5.2mb
 PMR 79.32 13 e(P) 42 16.70 -0.1
 MSU 79.84 46 P 42 21.00 0.5
 PNT 81.01 33 eP 42 26.00 -0.1
 0.8s 18.00nm 5.1mb
 NEW 81.77 35 P 42 29.30 -0.8
 ALO 82.38 51 eP 42 30.30 -3.5X
 1.0s 7.50nm 4.7mb
 Z 20s 0.35um 4.7Msz
 ANMO 82.38 51 P 42 34.20 0.4
 1.1s 11.87nm 4.9mb
 FBA 82.56 12 P 42 30.10 -3.7X
 0.8s 15.95nm 5.1mb
 IMA 82.61 9 eP 42 35.00 0.8
 1.7s 28.40nm 5.1mb
 LRM 83.22 39 eP 42 37.70 -0.2
 IMW 83.22 41 P 42 38.20 0.1
 BW06 83.60 43 P 42 39.30 -0.6
 0.9s 6.36nm 4.8mb
 BJI 83.62 314 eP 42 41.00 1.3
 GOL 85.11 47 P 42 47.60 0.0

	1.0s	6.25nm	4.8mb	LZH	26.09	324 eP	54 50 00	0.1	N 12s	1.70um		
SES	86.28	35 eP	42 53.00		2.0s	54.00nm		4.8mb	E 12s	0.70um		
INK	88.55	14 eP	43 03.00		Z 18s	1.20um		4.5Msz		eS	50 04.50	
YKA	90.75	24 eP	43 15.80		N 12s	0.90um			OZH	8.75	248 eP	48 35.00 6.6X
	0.8s	3.00nm	4.7mb		E 12s	0.70um			N 10s	0.70um		
PRU	144.22	349 ePKP	49 43.50 -3.8X	HHC	26.56	341 eP	54 58.00	3.9X	MAT	12.04	46 (P)	49 05.00 -8.4X
	Z 21s	0.50um	5.3Msz		Z 19s	1.20um		4.5Msz		eS	52 14.00	
	N 21s	0.40um			N 16s	0.80um			BJI	14.84	324 eP	49 56.00 5.8X
		e	49 52.00		E 14s	0.60um				1.0s	15.00nm	4.3mb
MLR	144.62	333 ePKP	49 45.00 -3.4X	BTO	26.85	338 eP	55 02.00	5.2X	XAN	16.84	294 eP	50 17.00 1.0
ABH	145.22	356 ePKP	49 45.85 -3.2X						N 11s	1.10um		
KHC	145.22	349 PKP	49 46.50 -2.6		N 13s	0.60um			HHC	17.98	317 eP	50 33.50 3.3X
	Z 20s	0.40um	5.2Msz		E 13s	1.20um				Z 15s	1.00um	
ZST	145.34	345 e(PKP)	49 47.30 -2.0			SP	55 11.00			N 12s	0.40um	
SRO	145.37	343 ePKP	49 49.90 0.6			eS	59 36.00			E 13s	0.60um	
FLN	146.22	6 ePKP	49 51.10 0.3	CN2	27.82	4 eP	55 10.50	5.1X	Gya	18.64	269 P	50 47.00 8.6X
	Z 21s	0.32um	5.1Msz	GTA	30.69	324 eP	55 32.60	1.3		N 10s	0.60um	
LPF	146.88	6 ePKP	49 53.40 1.6		Z 22s	0.90um		4.4Msz		E 10s	0.70um	
	1.1s	24.40nm		WB5	37.47	162 eP	56 29.00	-0.6	BTO	18.77	315 eP	50 42.00 2.0X
LOR	147.94	0 ePKP	49 56.60 3.0X	WRA	37.52	162 P	56 31.00	0.9		N 13s	0.60um	
	Z 21s	0.45um	5.2Msz			0.3s	0.40nm	3.8mb		E 13s	1.20um	
SSF	148.14	1 ePKP	49 57.30 3.4X	WMO	40.57	320 eP	56 56.00	0.7	CD2	20.79	282 eP	51 06.20 4.1X
	1.1s	15.85nm			Z 20s	0.70um		4.5Msz		Z 13s	0.60um	4.2MszX
LBF	148.22	0 ePKP	49 57.40 3.3X		N 12s	0.50um				N 11s	1.20um	
AVF	148.41	1 ePKP	49 57.40 3.1X	GBA	43.70	273 P	57 27.00	5.8X	LZH	21.38	297 Pc	51 12.50 4.4X
SMF	148.56	1 ePKP	49 58.00 3.4X	SOD	77.67	337 eP	01 22.00	10.3X		2.0s	25.00nm	4.3mb
	1.0s	5.00nm		HFS	85.36	332 eP	02 02.50	10.3X		Z 14s	0.60um	4.1MszX
BGF	148.63	2 ePKP	49 58.30 3.6X			0.7s	3.60nm			E 12s	0.60um	
TCF	148.87	3 ePKP	49 58.80 3.7X	NB2	86.08	333 P	02 02.50	6.6X	GTA	25.35	303 eP	51 47.20 0.4
LSF	148.87	4 ePKP	49 58.60 3.5X			0.9s	1.90nm	4.3mb		0.8s	15.00nm	4.6mb
MAF	148.95	2 ePKP	49 59.30 4.0X	SKO	87.52	313 eP	02 10.60	7.4X		Z 14s	0.60um	4.3MszX
	1.1s	9.75nm			S.D. = 1.2	on 14 of 27 obs.				N 14s	0.70um	
SKO	149.38	334 ePKP	49 47.00 -9.0X						CHTO	27.86	256 (P)	52 10.50 0.7
	N 19s	0.47um		? AUG 13, 1990 14h 37m 40.69±0.70s					WMO	35.25	307 eP	53 15.00 0.3
	E 20s	0.61um		30.538 S ±20.9km 70.269 W ±23.8km						Z 18s	0.50um	4.3Msz
		LR	5									

13d 15h

RSP 0.71 56 P S 34 31.61
 34 27.41 -0.6
 34 34.69
 STV 0.83 128 P S 34 30.07 0.1
 34 39.92
 LSD 0.87 37 P S 34 31.20 0.4
 34 41.45
 ENR 0.89 126 P S 34 30.69 -0.4
 S.D. = 0.5 on 6 of 6 obs.

* AUG 13, 1990 16h 07m 43.81 ± 0.88s
 28.720 N ± 0.8km 128.072 E ± 0.8km
 DEPTH = 33.0km (normal)
 4.4mb (4 obs.)

RYUKYU ISLANDS (238)

SSE 6.43 293 ePn 09 18.80 0.2
 N 15s 2.20um
 E 15s 0.90um
 PP 09 23.60
 Sn 10 38.00
 NJ2 8.63 295 eP 09 48.00 -1.3
 N 12s 1.70um
 E 12s 0.70um

MAT 11.56 45 eP 10 30.00 0.4
 BJI 14.95 322 eP 11 20.00 5.7X
 1.2s 16.00nm
 Z 18s 0.47um 4.2mb
 N 10s 0.38um 4.3msz
 E 12s 0.39um

OCP 15.44 206 eP 11 21.00 0.1
 XAN 17.18 293 eP 11 44.80 1.8
 N 12s 0.80um
 BTO 18.96 313 P 12 08.50 3.6X
 N 12s 0.50um
 E 12s 0.40um

GYA 19.11 268 P 12 07.80 1.0
 N 10s 1.00um
 E 10s 0.40um
 CD2 21.20 282 eP 12 29.00 0.1
 E 10s 0.70um

LZH 21.70 296 eP 12 32.60 -1.4
 2.5s 53.00nm 4.5mb
 Z 14s 0.50um 4.1mszX

GTA 25.63 302 eP 13 10.60 -1.5
 1.0s 10.00nm 4.4mb
 Z 10s 0.50um 4.3mszX
 N 14s 0.70um

WMO 35.50 306 eP 14 40.50 1.0
 WRA 48.76 172 P 16 27.00 -0.5
 1.0s 3.70nm 4.4mb
 S.D. = 1.2 on 11 of 13 obs.

* AUG 13, 1990 16h 07m 49.62 ± 1.71s
 1.599 N ± 7.5km 123.795 E ± 13.9km
 DEPTH = 45.9 ± 18.6 km
 4.5mb (4 obs.)

MINAHASSA PENINSULA (265)

DAV 5.73 18 eP 09 15.00 0.5
 MKS 8.03 213 iPc 09 45.60 -1.0
 BAG 15.06 348 eP 11 22.00 0.7
 IPM 22.93 278 ePc 12 54.10 3.3X
 MBL 22.95 190 eP 12 46.00 -5.0X
 WB5 23.73 155 eP 12 57.80 -0.8
 SNG 23.76 284 eP 13 04.00 5.1X
 WRA 23.78 155 Pd 12 59.00 -0.1
 0.7s 5.10nm 4.1mb

NANU 25.33 198 iPd 13 09.30 -4.6X
 0.4s 9.00nm 4.7mb
 OIS 26.92 146 iPc 13 28.60 -0.1
 CHG 29.76 307 eP 14 10.00 15.6X
 CHTO 29.76 307 (P) 14 00.80 6.4X

MAT 37.24 19 (P) 14 57.00 -1.7
 BJI 38.88 351 eP 15 12.00 -0.4
 BRS 40.11 138 iPc 15 23.50 0.7
 BWA 42.64 149 eP 15 46.00 2.5X
 GTA 43.52 333 P 15 50.80 0.1
 0.8s 10.00nm 4.6mb

CAN 43.64 150 eP 15 53.00 1.4
 GBA 47.37 287 Pd 16 23.60 2.1
 0.5s 2.50nm 4.4mb
 WMO 52.86 328 eP 17 01.40 -1.7
 S.D. = 1.3 on 13 of 20 obs.

AUG 13, 1990 16h 12m 33 38 ± 1.19s
 1.371 N ± 4.3km 123.377 E ± 7.0km
 DEPTH = 37.4 ± 11.7 km
 4.9mb (13 obs.) 4.2msz (3 obs.)
 MINAHASSA PENINSULA (265)

DAV 6.09 21 eP 14 03.90 0.5
 MKS 7.62 211 iPc 14 26.00 1.2
 MTN 16.08 152 eP 16 18.00 -0.5
 KNA 17.83 163 eP 16 40.30 -0.1
 KGM 20.06 272 eP 17 12.00 5.5X
 QIZ 22.00 324 eP 17 25.30 -0.9

N 12s 0.80um
 E 11s 0.70um
 IPM 22.54 279 ePd 17 32.10 0.4
 MBL 22.66 189 eP 17 31.00 -1.7
 0.7s 22.00nm 4.7mb
 SNG 23.41 285 eP 17 40.30 0.2
 eS 22 12.00

WB5 23.71 154 eP 17 42.80 -0.2
 WRA 23.76 154 Pd 17 44.40 1.0
 0.7s 19.40nm 4.7mb
 QZH 23.89 349 eP 17 44.50 -0.1
 NANU 24.99 197 iPd 17 54.20 -1.1
 0.5s 34.00nm 5.2mb

NNT 25.95 297 eP 18 11.20 6.9X
 PMG 25.99 115 eP 18 03.00 -1.7
 ASPA 26.91 158 eP 18 12.10 -1.0
 1.9s 58.00nm 4.9mb
 OIS 26.97 145 iPc 18 14.00 0.3
 1.0s 82.00nm 5.3mb

MEKA 28.21 189 iPd 18 23.10 -1.8
 CHG 29.57 307 eP 18 42.80 5.6X
 CHTO 29.57 307 P 18 37.50 0.3
 SSE 29.64 356 eP 18 38.00 0.4
 1.5s 25.00nm 4.7mb
 Z 20s 0.60um 4.2msz
 N 16s 0.50um

PP 18 47.30
 WHN 30.25 344 eP 18 43.50 0.4
 KMI 30.89 322 eP 18 49.50 0.4
 MRWA 31.22 193 eP 18 50.00 -1.7
 CD2 34.76 330 eP 19 21.40 -1.1
 RMO 36.97 140 eP 19 41.00 -0.2
 STK 37.31 154 iPd 19 44.60 0.7
 1.2s 13.00nm 4.7mb

TIY 37.54 346 Pd 19 45.00 -0.9
 Z 16s 1.00um 4.7mszX
 MAT 37.59 20 eP 19 43.00 -3.3X
 LZH 39.00 335 Pd 19 58.00 -0.3
 2.0s 54.00nm 5.0mb
 Z 20s 0.70um 4.5msz
 E 14s 0.40um

PP 20 09.00
 BJI 39.04 351 eP 19 57.50 -0.9
 1.5s 29.00nm 4.8mb
 Z 20s 0.30um 4.1msz
 ePP 20 07.50
 eS 26 00.00

HHC 40.73 346 eP 20 12.00 -0.4
 BWA 42.66 149 iPc 20 31.00 2.7
 GTA 43.54 333 iPd 20 35.60 0.2
 1.2s 70.00nm 5.3mb
 SP 20 46.00

CAN 43.66 149 iPc 20 37.90 1.5
 GUN 44.52 310 P 20 44.70 0.8
 PKI 44.72 309 P 20 45.40 0.0
 KKN 44.92 309 P 20 47.40 0.4
 DMN 44.97 309 P 20 48.00 0.6
 GKN 45.53 309 P 20 52.00 0.4
 HYB 46.84 293 eP 21 07.00 5.0X
 GBA 47.04 287 P 21 07.00 3.5X
 0.8s 5.40nm 4.6mb

WMO 52.83 328 P 21 47.80 0.2
 Z 15s 0.40um 4.6mszX
 MAIO 68.31 309 iPd 23 33.00 -0.3
 eS 32 44.00
 MAW 80.41 200 eP 24 43.00 0.7
 SBA 82.49 172 e(P) 24 54.40 1.4
 SOD 91.35 337 eP 25 48.00 11.7X
 SPA 91.36 180 iPd 25 37.30 0.7
 1.0s 11.00nm 5.2mb

SUF 92.11 333 eP 25 39.00 -0.9
 BUL 94.94 250 iPc 25 46.70 -7.2X
 1.0s 23.00nm 5.6mb
 LNV 144.75 158 ePKP 32 08.00 -0.4

CHCH 145.04 159 ePKP 32 09.00 -0.1
 PEL 145.75 159 ePKP 32 11.30 1.0
 1.4s 46.51nm

CNCB 161.02 145 ePKP 32 38.00 5.7X
 i 33 19.00
 ZOBO 161.36 143 PKP 32 36.00 3.4X
 i 33 21.00
 S.D. = 1.0 on 45 of 55 obs.

? AUG 13, 1990 17h 08m 18.35 ± 1.39s
 18.540 S ± 33.2km 178.236 W ± 23.0km
 DEPTH = 677.7 ± 14.3 km
 4.7mb (6 obs.)

FIJI ISLANDS REGION (181)

DZM 14.79 254 iPc 11 24.50 1.0
 CAN 33.46 233 eP 14 08.30 1.3
 CTA 33.51 261 iPd 14 06.80 -0.7
 0.7s 17.12nm 4.8mb

BWA 33.59 235 eP 14 08.20 0.1
 PMG 34.73 280 eP 14 17.00 -0.6
 1.0s 66.00nm 5.1mb
 STK 38.48 242 iPc 14 48.60 0.6
 0.5s 9.00nm 4.6mb

WB5 44.66 260 iPd 15 35.10 -1.4
 WRA 44.68 260 P 15 35.50 -1.1
 0.5s 10.60nm 4.5mb
 ASPA 44.78 255 iPc 15 36.80 -0.6
 0.8s 67.00nm 5.1mb
 iS 21 30.10

FORR 49.86 245 iPc 16 14.90 -0.2
 WARB 51.23 251 iPd 16 25.00 -0.1
 0.4s 12.00nm 4.6mb

MBL 57.99 256 eP 17 11.00 -0.9
 NANU 61.71 254 iPd 17 36.50 0.4
 KVN 80.24 43 P 19 22.10 -0.6
 SVW 81.43 11 eP 19 32.10 4.0X
 TTA 83.06 10 ePd 19 50.20 14.0X

TOA 84.30 15 eP 19 52.60 10.3X
 ANMO 86.36 51 P 19 50.30 -2.6
 BW06 87.70 43 P 19 58.80 -0.2
 CHG 89.37 290 eP 20 08.00 1.1
 CLL 146.11 347 iPd 21 21.70 2.5
 CLL 146.11 347 i(PKP) 26 46.00 2.2
 S.D. = 1.4 on 19 of 22 obs.

% AUG 13, 1990 17h 11m 57.85 ± 1.82s
 45.779 N ± 22.4km 27.196 E ± 14.0km
 DEPTH = 33.0km (normal)

ROMANIA (358)

BRD 0.28 201 iPc 12 04.00 -1.4
 VRI 0.34 286 iPd 12 05.00 -1.2
 CVO 0.72 274 iPd 12 12.50 0.9
 CFR 0.90 131 iPd 12 14.00 -0.1
 MLR 0.92 252 iP 12 15.50 0.9
 TLB 1.33 153 ePc 12 21.00 0.8
 CMP 1.60 252 ePc 12 28.00 3.8X
 S.D. = 1.4 on 6 of 7 obs.

* AUG 13, 1990 17h 19m 03.31s
 60.350 N 152.065 W
 DEPTH = 71.5km

SOUTHERN ALASKA (2)

<AGS-P>.
 RDT 0.28 323 iP 19 14.17 -0.6
 eS 19 23.49
 RED 0.36 281 iP 19 14.76 -0.6
 eS 19 25.00
 >NNL 0.49 128 iP 19 16.89 0.5
 NKA 0.57 46 iP 19 18.42 1.3
 HOM 0.73 163 iP 19 18.67 -0.1
 eS 19 31.07

BRLK 0.83 134 eP 19 19.26 -0.9
 SPU 0.83 0 iP 19 19.50 -0.7
 eS 19 32.73
 CKL 0.86 351 iP 19 19.77 -0.8
 XLV 0.91 169 eP 19 20.13 -0.9
 eS 19 33.65

CRP 0.92 357 iP 19 20.83 -0.5
 CNPM 0.93 153 iP 19 20.50 -0.7
 eS 19 34.35
 SLKM 0.93 79 eP 19 20.27 -1.0
 eS 19 34.63

BGL 0.93 350 iP 19 20.71 -0.7
 CGLM 0.96 2 iP 19 21.17 -0.6

14d 00h									
	1.0s	56.00nm		5.6mb		0.7s	16.00nm		5.1mb
Z	19s	2.00um		5.1MsZ			ic	01 06.90	455kmX
N	14s	1.70um			MEM	50.74	315 iPc	59 40.75	1.3
E	16s	0.70um			CDR	50.75	306 ePc	59 43.70	4.0X
BDI	47.26	306 Pc	59 12.40	-0.5	LOF	51.48	338 eP	59 44.27	-0.5
PII	47.31	306 P	59 16.00	2.9X	DOU	51.61	314 Pc	59 47.00	0.9
GRF	47.31	314 iPd	59 14.20	1.1			S	07 11.00	
	1.2s	42.00nm		5.4mb	UCC	51.80	315 P	59 48.00	0.5
Z	21s	0.70um		4.6MsZ	SNF	51.83	314 iPc	59 48.61	0.9
SAL	47.39	308 P	59 14.50	0.8	MOL	51.91	330 eP	59 47.26	-0.9
DL2	47.52	61 eP	59 19.00	4.2X	LBF	51.96	310 eP	59 48.00	-0.9
OSS	47.72	310 ePd	59 16.60	0.0		0.9s	37.65nm		5.3mb
MDI	47.96	308 P	59 18.50	0.3	LOR	52.04	310 eP	59 48.40	-1.0
SSE	48.03	71 Pd	59 20.00	1.1		1.0s	34.00nm		5.2mb
	1.2s	19.00nm		5.0mb	Z	22s	0.93um		4.8MsZ
Z	20s	1.40um		4.9MsZ	SMF	52.06	309 eP	59 48.90	-0.6
N	18s	5.10um			SSF	52.28	310 eP	59 50.50	-0.7
		S	06 16.00		AVF	52.39	310 eP	59 51.30	-0.7
		eSS	09 38.00			0.8s	18.80nm		5.1mb
VDL	48.17	309 ePd	59 20.00	-0.1	LBL	52.51	308 P	59 52.82	0.0
SAX	48.31	310 ePd	59 20.80	-0.4	AGO	52.56	309 P	59 53.21	-0.1
KEV	48.31	343 eP	59 21.00	0.4	GRC	52.57	310 P	59 53.33	0.0
	0.8s	19.10nm		5.2mb	PYM	52.66	308 P	59 53.95	-0.2
		i	59 27.00	20km	BGF	52.74	309 eP	59 53.90	-0.8
		e	21 36.00			0.9s	36.85nm		5.3mb
HFS	48.36	328 eP	59 20.20	-0.9	MAF	52.95	309 eP	59 55.80	-0.4
	0.6s	30.60nm		5.5mb		1.0s	20.00nm		5.0mb
Z	16s	1.00um		4.9MsZ	MDJ	53.17	53 eP	00 03.50	5.6X
		LR	20 54.00		TCF	53.19	309 eP	59 57.50	-0.5
LLS	48.52	310 ePd	59 22.00	-0.6		0.8s	14.80nm		5.0mb
TMA	48.57	309 ePd	59 22.20	-0.9	CAF	53.36	307 eP	59 59.10	-0.2
PCP	48.75	307 P	59 22.97	-1.4		0.8s	24.20nm		5.2mb
TKT1	48.88	341 ePc	59 23.49	-1.5	LSF	53.67	309 eP	00 00.80	-0.6
SNY	48.90	57 eP	59 24.80	-0.7		1.1s	30.50nm		5.2mb
	Z 16s	2.30um		5.3MsZ	RJF	53.72	308 eP	00 01.80	-0.1
	N 14s	1.40um				1.0s	38.00nm		5.4mb
	E 13s	1.10um			Z	22s	1.10um		4.9MsZ
		PP	01 21.00		LPO	54.00	307 eP	00 03.60	-0.3
		S	06 27.00			1.0s	28.00nm		5.2mb
		SS	09 53.00		LFF	54.30	307 eP	00 05.90	-0.2
SLE	48.92	311 ePd	59 24.60	-1.0		0.9s	49.15nm		5.5mb
CKI	48.94	307 P	59 31.00	5.2X	LDF	54.69	312 eP	00 07.90	-1.0
ZLA	48.97	311 ePd	59 25.20	-0.8		0.8s	16.10nm		5.1mb
FIN	48.99	306 P	59 24.40	-1.8	EPF	54.75	305 eP	00 08.40	-1.1
TNS	49.15	314 ePd	59 28.						

ALQ 51.72 328 eP 42 23.30 -1.1
0.9s 2.10nm 4.1mb
ANMO 51.72 328 P 42 53.00 -0.4
SPA 81.49 180 iPc 42 44.00 -0.5
0.8s 5.00nm 4.6mb
INK 86.40 342 eP 46 28.00 10.3X
DZM 111.22 242 iPKPc 52 11.00 0.2
S.D. = 0.9 on 21 of 22 obs.

* AUG 14, 1990 04h 13m 20.57 ± 2.25s
35.198 S ± 22.0km 70.963 W ± 11.0km
DEPTH = 95.3 ± 8.6 km
4.1mb (2 obs.)

CHILE-ARGENTINA BORDER REGION (127)

CHCH 1.29 12 iPc 13 44.40 0.0
iS 14 02.30
LNV 1.29 343 iPd 13 44.20 -0.2
iS 14 01.00
TACH 1.54 1 iPc 13 47.50 0.0
iS 14 05.50
PCH 1.62 13 iPc 13 49.00 0.4
iS 14 09.50
SAN 1.76 8 eP 13 50.50 0.2
iS 14 12.40
LCCH 1.79 344 iPd 13 50.30 -0.4
iS 14 10.80
FCH 1.95 17 iPc 13 53.50 0.4
iS 14 13.00
PEL 2.06 6 iPd 13 54.80 0.4
iS 14 17.70
ROCH 2.22 359 iP 13 56.70 0.0
iS 14 23.00
IHA 2.24 345 eP 13 56.50 -0.2
iS 14 22.70
JACH 2.53 7 iPc 14 00.50 -0.2
iS 14 28.60
MDZ 2.90 38 iP 14 06.30 0.6
iS 14 33.70
RTLL 4.39 29 ePc 14 25.10 -1.1
eS 15 15.00
RTRS 5.17 15 ePc 14 36.10 -0.9
eS 15 33.80
CCH 18.26 15 P 17 31.10 1.6
CNCB 18.51 9 P 17 33.00 0.2
ARE 18.67 358 eP 17 34.00 -0.3
ZOBO 19.02 8 P 17 39.00 0.7
SIV 21.08 27 P 17 57.60 -1.3
TUL 74.43 339 eP 24 48.40 -1.4
0.9s 4.00nm 4.3mb
ALO 77.25 331 eP 25 06.00 0.1
1.0s 2.50nm 4.0mb
ANMO 77.26 331 P 25 06.40 0.5
KVN 85.77 325 P 25 51.00 0.7
S.D. = 0.7 on 23 of 23 obs.

% AUG 14, 1990 04h 50m 28.27 ± 1.91s
44.625 N ± 14.4km 8.453 E ± 8.3km
DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)

ML 1.9 (GEN).

PCP 0.11 141 P 50 31.22 0.1
S 50 32.97
FIN 0.45 203 P 50 37.28 -0.2
S 50 42.81
ROB 0.53 232 P 50 39.11 0.1
S 50 45.84
IMI 0.82 210 P 50 43.98 -0.2
S 50 54.64
ENR 0.84 242 P 50 44.77 0.2
S 50 55.52
STV 0.89 245 P 50 46.09 0.6
S 50 57.05
PZZ 0.97 263 P 50 46.30 -0.6
S 50 59.06
S.D. = 0.5 on 7 of 7 obs.

AUG 14, 1990 05h 15m 04.21 ± 1.23s
31.761 S ± 4.6km 72.431 W ± 14.4km
DEPTH = 33.0km (normol)

OFF COAST OF CENTRAL CHILE (134)

IHA 1.43 152 eP 15 28.50 0.5
i(S) 15 50.80
ROCH 1.70 136 eP 15 32.20 -0.1
i 15 52.50
JACH 1.81 121 iPd 15 32.60 -1.1
i 15 53.00
PEL 2.02 134 iP 15 36.00 -0.7
iS 16 03.20
SAN 2.25 139 eP 15 39.70 -0.2
iS 16 10.50
TACH 2.27 147 eP 15 40.90 0.8
i 16 15.50
LNV 2.35 159 iPc 15 41.00 -0.3
i 16 08.60
FCH 2.39 131 iPd 15 42.20 0.0
iS 16 13.50
PCH 2.46 139 eP 15 43.20 0.2
i 16 19.00
CHCH 2.63 146 eP 15 45.50 0.1
i 16 17.00
RTRS 3.00 59 iPc 15 50.60 0.0
MDZ 3.23 111 iP 15 59.80 5.9X
iS 16 34.60
RTLL 3.41 84 ePd 15 57.40 1.0
(S) 16 35.00
ZOBO 15.91 15 P 18 48.00 0.1
SIV 18.80 36 P 19 23.00 -0.5
S.D. = 0.6 on 14 of 15 obs.

? AUG 14, 1990 05h 40m 49.95 ± 1.93s
31.824 S ± 10.4km 71.592 W ± 19.3km
DEPTH = 10.0km (geophysicist)

NEAR COAST OF CENTRAL CHILE (135)

IHA 1.20 182 eP 41 14.00 1.7
e(S) 41 36.00
JACH 1.20 136 iPc 41 13.60 1.1
iS 41 34.00
ROCH 1.25 157 iP 41 13.00 -0.3
i 41 34.20
PEL 1.52 150 eP 41 16.80 -0.5
iS 41 43.00
LCCH 1.65 179 eP 41 19.00 0.0
SAN 1.80 154 eP 41 21.00 -0.3
eS 41 50.50
FCH 1.86 144 eP 41 22.90 0.5
iS 41 52.00
TACH 1.91 163 eP 41 21.40 -1.4
eS 41 53.00
PCH 2.01 153 eP 41 24.50 0.1
i 41 59.00
LNV 2.13 176 eP 41 22.00 -4.0X
iS 41 59.10
CHCH 2.25 160 eP 41 26.60 -1.2
i 41 57.00
RTRS 2.46 49 ePc 41 30.90 0.1
MDZ 2.55 115 eP 41 40.40 8.3X
iS 42 15.70
RTLL 2.71 80 ePd 41 39.30 4.9X
S.D. = 1.0 on 11 of 14 obs.

AUG 14, 1990 06h 10m 55.50 ± 0.23s
20.143 S ± 7.4km 168.282 E ± 5.5km
DEPTH = 40.2km (24 depth phases)
5.1mb (12 obs.)

LOYALTY ISLANDS (188)

PVC 2.39 1 iPd 11 31.00 -2.1
iS 12 01.00
DZM 2.57 221 iPd 11 32.90 -2.9
NDF 8.99 76 eP 13 22.30 16.4X
SGE 9.47 76 ePc 13 17.80 5.1X
SVA 9.83 80 eP 13 15.60 -1.8
VUN 9.86 79 eP 13 17.80 0.0
MBU 10.39 74 eP 13 27.30 2.1
COO 18.07 232 eP 15 07.00 1.7
RMO 19.00 247 eP 15 17.00 0.3
CTA 20.69 266 iPc 15 35.90 1.1
1.6s 200.00nm 5.2mb
i 15 49.00 57kmX
iS 15 58.00
CNB 22.50 224 eP 15 55.80 2.8X
i 16 07.80 48km
BWA 22.61 227 eP 15 54.80 0.7
i 16 06.80 48km

CAN 22.74 224 eP 15 57.20 1.9
i 16 09.50 50km
CMS 23.11 236 eP 16 00.00 1.1
e 16 13.00 54kmX
WB5 31.84 265 eP 17 17.10 -1.9
i 17 29.00 45km
WRA 31.86 264 Pc 17 17.20 -2.0
1.5s 19.40nm 4.7mb
ASPA 32.05 257 iPd 17 19.40 -1.4
1.0s 31.00nm 5.1mb
i 17 41.40 96kmX
SBA 57.76 180 e(P) 20 43.20 -1.2
MAT 63.14 333 iPd 21 20.40 -1.1
TSRJ 63.28 331 eP 21 22.30 -0.1
MTMJ 63.34 333 P 21 22.50 -0.5
NIIJ 63.40 334 P 21 23.60 0.4
SPA 69.98 180 iPd 22 02.90 -1.9
1.0s 14.50nm 4.9mb
i 22 18.90 58kmX
WHN 72.29 313 eP 22 19.50 0.5
SMY 72.74 4 P 22 31.50 10.4X
ADK 72.91 10 P 22 20.70 -1.5
1.0s 120.00nm 5.8mb
pP 22 32.70 40km
MDJ 73.49 332 eP 22 26.00 0.3
CN2 74.76 329 Pd 22 33.40 0.3
ePP 22 46.00
GYA 75.60 305 P 22 39.00 0.5
PP 22 51.80
BJI 77.07 322 eP 22 46.00 -0.3
2.0s 44.00nm 5.1mb
TIY 77.89 318 eP 22 51.20 0.3
Z 15s 0.20um 4.6mszX
KMI 77.99 302 Pc 22 53.50 1.5
1.5s 60.00nm 5.4mb
PP 23 06.00
XAN 78.06 313 P 22 52.50 0.6
CHG 78.21 295 eP 22 54.50 1.5
1.1s 25.32nm 5.1mb
CD2 80.07 308 eP 23 07.20 4.2X
HHC 80.32 320 P 23 05.00 0.9
LZH 82.67 313 Pd 23 17.50 0.9
1.8s 32.00nm 5.1mb
Z 17s 0.30um 4.7mszX
PRS 86.95 50 eP 23 38.30 0.5
eP 23 49.50 36km
BRK 87.04 48 eP 23 38.50 0.4
eP 23 51.20 42km
BKS 87.06 48 eP 23 38.50 0.2
1.8s 232.00nm 6.1mb X
epP 23 50.50 39km
SAO 87.10 49 eP 23 39.20 0.7
eP 23 51.30 40km
SYF 87.14 52 eP 23 51.00 12.1X
MHC 87.22 49 eP 23 40.10 0.9
eP 23 52.20 40km
BCH 87.36 51 P 23 40.30 0.4
pP 23 51.60 36km
PRI 87.37 50 eP 23 39.20 -0.7
eP 23 51.70 41km
TTA 87.44 16 P 23 40.00 0.3
1.2s 13.26nm 5.1mb
ABL 87.84 52 P 23 42.30 -0.1
pP 23 54.50 40km
WDC 88.13 45 eP 23 43.70 0.4
eP 23 55.00 36km
PAS 88.31 53 eP 23 57.00 12.6X
ORV 88.35 47 eP 23 44.50 0.1
eP 23 56.00 37km
CMB 88.43 48 eP 23 44.80 -0.1
eP 23 56.60 38km
FRI 88.44 50 eP 23 44.80 -0.1
eP 23 56.60 38km
ISA 88.75 51 eP 23 47.00 0.5
SBB 88.80 52 eP 23 46.00 -0.8
RVR 88.84 53 eP 23 46.00 -0.9
LBFM 88.93 45 P 23 47.60 0.2
pP 23 59.20 37km
PLM 88.96 54 eP 23 48.00 0.3
CLC 89.46 51 eP 23 50.00 0.2
GSC 89.82 52 eP 23 51.00 -0.6
TPC 89.89 54 eP 23 52.00 0.1
GLA 90.39 55 eP 23 55.00 0.8
KVN 90.48 48 P 23 54.20 -0.5
pP 24 06.20 39km
BMW 90.53 40 P 23 54.50 -0.1
pP 24 06.50 39km

IMA	90.61	15	P	23	53.80	-0.8
GMW	91.32	39	P	23	58.00	-0.1
			pP	24	09.80	38km
PGC	91.46	38	eP	24	11.00	12.4X
LON	91.52	40	P	23	58.00	-1.1
			pP	24	10.30	40km
RMW	91.86	40	P	24	00.50	-0.2
			pP	24	12.30	38km
PNT	94.01	39	eP	24	20.00	9.6X
MSU	94.50	51	P	24	13.20	-0.1
GBA	95.36	282	P	24	20.00	2.7X
	0.8s		3.10nm			4.8mb
DAU	95.86	49	P	24	21.20	1.6
ALQ	97.55	56	e(P)	24	37.00	9.8X
	1.0s		2.50nm			4.7mb
INK	97.68	19	eP	24	25.00	-1.7
			pP	24	37.00	39km
YKA	101.88	28	ePd	24	58.80	13.0X
	1.2s		3.10nm			
KEV	125.17	345	ePKP	29	52.00	-0.6
SOD	126.93	343	ePKP	29	56.00	-0.1
NUR	132.21	337	ePKP	30	06.00	-0.3
NB2	136.07	344	PKP	30	14.40	0.7
	0.9s		2.80nm			
KSP	142.25	331	ePKP	30	21.00	-4.3X
BRG	143.27	333	ePKP	30	23.80	-3.2X
	1.7s		22.00nm			
			e	30	39.30	
CLL	143.34	334	ePKP	30	24.00	-3.1X
	1.9s		18.00nm			
			e	30	42.00	
ZST	143.63	327	ePKP	30	25.70	-2.0
PRU	143.64	331	PKP	30	22.50	-5.1X
			e	30	45.00	
KNT	143.93	313	ePKPd	30	25.00	-3.4X
VAY	144.09	314	iPKP	30	26.60	-2.1
EKA	144.28	352	PKP	30	40.00	11.5X
	1.2s		13.90nm			
MOX	144.41	334	ePKPc	30	28.00	-1.0
			e	30	40.00	
WIT	144.42	341	ePKP	30	27.00	-1.8
SKO	144.55	315	iPKPd	30	28.20	-1.3
			i	31	09.00	
			i	31	29.00	
HOF	144.56	334	ePKP	30	28.50	-0.7
LIT	144.65	312	ePKPc	30	27.90	-1.8
KHC	144.70	331	ePKP	30	29.40	-0.1
WTS	145.07	340	ePKP	30	30.00	0.0
	1.0s		20.00nm			
FNA	145.13	314	ePKPc	30	29.60	-1.0
AGG	145.19	310	ePKPd	30	28.70	-2.0
KMR	145.20	329	iPKP-	30	31.00	0.6
			ipPKP	30	45.00	
GRF	145.31	334	ePKP	30	31.00	0.5
			e	30	44.00	
			e	30	50.70	
OHR	145.38	314	iPKP	30	28.10	-2.9
	1.1s		700.00nm			
PTJ	145.70	325	ePKP	30	32.10	0.7
ZAG	145.74	325	ePKP	30	34.50	3.2X
TNS	145.99	337	ePKPd	30	32.70	1.0
BHG	146.03	330	iPKPc	30	33.50	1.7
VBY	146.33	325	ePKP	30	33.00	0.7
ENN	146.41	340	ePKP	30	34.00	1.8
	2.0s		250.00nm			
			e	30	48.00	
MEM	146.52	339	ePKPc	30	34.40	2.0
ABH	146.60	337	ePKP	30	34.54	1.9
CEY	146.62	326	e(PKP)	30	33.00	0.2
BCAO	146.67	246	iPKPd	30	34.10	0.3
	0.8s		39.00nm			
			ic	30	48.10	
			ic	31	15.30	
VOY	146.70					

ECP	147.75	354	ePKP	30	37.10	2.8X
	1.3s	103.00nm				
CDF	147.91	336	ePKP	30	37.80	2.9X
	1.0s	24.00nm				
BSF	148.57	336	ePKP	30	39.50	3.5X
	1.2s	26.80nm				
HAU	148.60	336	ePKP	30	39.70	3.8X
	1.0s	30.00nm				
SAL	148.68	329	PKP	30	36.00	0.0
ORI	148.78	316	PKP	30	41.50	5.1X
MDI	148.94	330	PKP	30	39.00	2.6X
TDS	149.06	315	PKP	30	42.00	5.1X
SGO	149.25	317	PKP	30	42.50	5.4X
PGD	149.30	326	PKP	30	42.50	5.2X
MGR	149.32	316	PKP	30	41.00	3.7X
ASS	149.32	324	PKP	30	42.00	4.7X
AZI	149.56	321	PKP	30	42.00	4.5X
MME	149.61	327	PKP	30	43.60	5.7X
BDI	149.75	327	PKP	30	38.00	0.1
ORO	149.84	332	PKP	30	42.00	4.0X
PII	150.03	327	PKP	30	42.00	3.9X
SOI	150.04	313	PKP	30	44.00	5.7X
FLN	150.05	345	ePKP	30	42.90	4.9X
	1.0s	34.00nm				
RMP	150.10	322	PKP	30	44.00	5.6X
LDF	150.12	344	ePKP	30	42.90	4.7X
	1.0s	20.00nm				
LOR	150.12	338	ePKP	30	43.40	5.2X
	1.0s	29.00nm				
RDP	150.13	322	PKP	30	44.00	5.5X
LBF	150.32	338	ePKP	30	43.80	5.2X
	1.2s	23.80nm				
SSF	150.42	339	ePKP	30	44.20	5.5X
	1.1s	39.05nm				
LPL	150.47	333	ePKP	30	44.90	5.8X
	1.0s	19.00nm				
LPG	150.48	333	ePKP	30	45.00	5.8X
	1.0s	26.00nm				
GRR	150.49	345	ePKP	30	44.00	5.3X
	1.0s	24.00nm				
SMF	150.66	338	ePKP	30	44.50	5.4X
	1.2s	23.80nm				
AVF	150.71	339	ePKP	30	44.50	5.4X
	1.0s	13.00nm				
BNI	150.86	333	PKP	30	40.00	0.4
LPF	150.87	345	ePKP	30	45.00	5.7X
	1.1s	58.60nm				
SBF	151.45	330	ePKP	30	46.10	5.7X
	1.0s	22.00nm				
MAF	151.47	339	ePKP	30	46.30	6.0X
	1.0s	12.00nm				
TCF	151.53	340	ePKP	30	46.60	6.2X
	1.0s	21.00nm				
PGF	151.65	327	ePKP	30	47.10	6.3X
	1.0s	38.00nm				
LSF	151.78	340	ePKP	30	46.80	6.0X
	1.0s	18.00nm				
MFF	151.96	343	ePKP	30	47.40	6.4X
	0.8s	13.45nm				
FRF	152.05	331	ePKP	30	47.40	6.2X
	1.0s	18.00nm				
LMR	152.28	331	ePKP	30	48.20	6.6X
	1.0s	18.00nm				
RJF	152.62	339	ePKP	30	49.40	7.4X
	1.0s	8.00nm				
LFF	153.20	340	ePKP	30	50.70	7.9X
	0.8s	9.40nm				
S.D. = 1.2 on 99 of 160 obs.						
AUG 14, 1990 06h 47m 18.31±0.36s						
1.902 N ± 4.9km 127.365 E ±13.2km						

ASPA	26.20	166	eP	52	50.60	-1.4						
	0.4s		25.00nm			5.2mb						
NANU	26.92	205	eP	52	58.10	-0.4						
	0.5s		22.00nm			5.0mb						
WARB	27.93	181	eP	53	07.50	-0.2						
MRWA	32.80	199	iPc	53	50.00	-0.9						
	0.4s		8.00nm			5.0mb						
COOL	33.14	190	eP	53	52.00	-1.8						
TSRJ	34.41	12	P	54	04.80	0.1						
KLB	34.54	195	eP	54	04.50	-1.4						
MUN	35.32	197	eP	54	11.00	-1.5						
CHJJ	35.64	16	P	54	14.10	-1.2						
MTMJ	35.84	14	P	54	16.60	-0.4						
MAT	35.90	15	iPd	54	16.30	-1.1						
STK	36.21	159	iPc	54	19.70	-0.4						
	0.5s		14.00nm			5.1mb						
XAN	36.32	334	eP	54	21.00	-0.1						
NIJJ	36.76	16	eP	54	22.50	-2.2						
TIY	38.19	341	Pc	54	37.60	0.8						
	Z	16s	0.40um			4.3mszX						
BJI	39.30	346	eP	54	46.50	0.6						
	1.0s		27.00nm			5.0mb						
LZH	40.39	330	P	54	55.00	-0.2						
	1.5s		20.00nm			4.6mb						
BWA	41.19	153	eP	55	03.30	1.7						
CAN	42.20	153	eP	55	10.80	0.9						
GTA	44.98	330	Pd	55	33.60	1.1						
	0.6s		6.00nm			4.7mb						
WMO	54.58	325	eP	56	46.60	0.7						
	S.D. = 1.1 on 29 of 29 obs.											
AUG 14, 1990 06h 59m 23.85±0.66s												
65.506 N ± 9.1km 134.401 W ± 7.6km												
DEPTH = 10.0km (geophysicist)												
3.9mb (3 obs.)												
NORTHERN YUKON TERRITORY, CANADA(677)												
DWY	2.60	238	P	00	07.70	1.1						
INK	2.84	7	P	00	11.00	1.1						
FBA	5.67	270	eP	00	48.80	-1.3						
	0.8s		30.00nm			5.0mb X						
YKA	9.19	100	eP	01	39.60	0.3						
	0.3s		6.10nm			5.4mb X						
MBC	11.79	18	eP	02	13.70	-1.1						
	0.8s		23.00nm			5.5mb X						
FFC	19.17	109	eP	03	49.00	-0.7						
	0.6s		5.00nm			3.9mb						
SOD	46.72	10	iP	07	54.90	0.9						
NB2	51.20	21	P	08	28.70	0.0						
	0.7s		1.00nm			3.9mb						
HFS	52.43	19	eP	08	37.30	-0.7						
	0.4s		0.60nm			3.9mb						
NUR	53.33	13	eP	08	45.00	0.4						
	S.D. = 1.0 on 10 of 10 obs.											
AUG 14, 1990 07h 08m 45.30±0.51s												
28.057 S ± 5.9km 26.811 E ± 7.5km												
DEPTH = 5.0km (geophysicist)												
REPUBLIC OF SOUTH AFRICA (584)												
ML 2.9 (PRE).												
SEK	0.77	110	eP	09	01.00	0.2						
BLF	1.18	207	eP	09	08.00	0.1						
			S	09	26.00							
PRY	1.27	28	eP	09	09.50	0.1						
			S	09	27.00							
KIM	1.92	248	eP	09	19.00	-0.1						
FRS	2.13	217	eP	09	22.50	0.5						
			S	09	48.50							
BPI	2.											

			eSS	37	34.00		PET	91.04	351	eP	26	42.00	7.8X	11 obs. associated		
			eLO	40	05.00					eS	37	08.00				
			eLO	40	52.00		GTA	94.93	33	eP	26	56.00	3.4X	? AUG 14, 1990 15h 17m 43.54± 3.97s		
			eLR	44	37.00		Z	34s		12.00um			6.1MszX	31.400 S ±16.0km 68.486 W ±20.7km		
BRK	66.98	301	eP	24	25.60	2.0	N	24s		11.20um				DEPTH = 84.1 ± 35.8 km		
FBA	67.00	335	eP	24	25.70	2.3				SKS	37	30.00		SAN JUAN PROVINCE, ARGENTINA (137)		
			i	24	34.50					S	38	08.00				
QASM	67.03	74	eP	24	30.30	6.1X				SS	44	34.00		RTLL 0.07 11 iPc 17 56.10 0.1		
PRS	67.07	299	eP	24	26.00	1.7	GKN	95.43	50	P	27	00.60	5.5X	ZON 0.22 229 eP 17 56.20 -0.2		
GCC	67.19	300	eP	24	27.10	2.1	KKN	95.98	50	P	27	03.90	6.2X	RTCB 0.28 252 iPd 17 56.30 -0.2		
TOA	68.00	332	eP	24	29.40	-0.4	DMN	96.00	50	P	27	03.40	5.6X	CFA 0.29 134 e(P) 17 57.00 0.5		
			i	24	33.00		PKI	96.22	50	P	27	04.20	5.3X	RTCv 0.46 185 ePc 17 57.00 -0.6		
IMA	68.26	337	eP	24	31.10	-0.3	GUN	96.27	49	P	27	05.00	5.9X	RTBS 0.87 252 ePd 18 02.00 0.5		
			1.3s	268.10nm		6.3mb	BTO	98.01	26	eP	27	10.00	3.5X	RTRS 1.49 325 iPd 18 09.00 -0.2		
			ic	24	34.90					N 16s		5.20um		S.D. = 0.6 on 7 of 7 obs.		
PMR	69.44	332	eP	24	38.40	-0.1				E 16s		4.30um				
			1.3s	459.50nm		6.5mb				SP	27	15.00				
			i	24	41.90		CN2	99.29	14	eP	27	15.00	3.0X			
			e	25	33.70		LZH	99.47	32	eP	27	18.50	5.3X			
RYD	70.12	73	eP	24	43.00	-0.4				2.5s		64.00nm		5.8mb		
LWI	70.76	107	iPc	24	50.80	3.3X				Z 32s		7.90um		6.0MszX		
TTA	71.08	335	eP	24	50.70	2.1				N 21s		4.80um				
AAE	72.14	92	eP	25	02.20	6.2X				E 21s		6.00um				
SVW	72.16	334	eP	24	54.70	-0.4				PP	27	26.00				
MAIO	73.68	57	eP	25	09.00	4.5X				PP	31	18.00				
			1.5s	67.57nm		5.5mb				S	38	44.00				
			eS	34	44.00					SS	45	40.00				
ARO	74.08	87	ePd	25	15.50	8.4X	SNY	100.79	16	ePd	27	20.30	1.7			
MDZ	74.74	209	e(P)	25	12.60	2.2				Z 27s		4.80um		5.9MszX		
JACH	75.26	210	eP	25	18.00	4.5X				N 14s		0.60um				
PEL	75.70	210	iPd	25	19.50	3.6X				E 18s		3.90um				
FCH	75.71	209	eP	25	20.50	4.2X				S	38	57.00				
SAN	75.96	210	eP	25	21											

PLAT 2 41 267 eP 55 31.00 2.6
 EHOR 2.50 309 ePn 55 28.60 -1.0
 IFR 3.37 216 iP 55 40.50 -1.6
 TOL 3.73 345 ePn 55 54.50 7.4X
 ePb 56 02.50
 ePg 56 10.00
 iSn 56 35.50
 iSb 56 45.00
 iSg 56 50.00
 GUD 4.48 347 ePn 55 57.00 -0.9
 MTE 5.56 319 e(P) 56 13.00 -0.1
 i 57 43.50
 MVO 5.89 327 e(P) 56 16.70 -1.1
 S.D. = 1.1 on 15 of 17 obs.

AUG 14, 1990 15h 57m 33.07± 0.81s
 43.238 N ± 6.0km 20.160 E ± 6.5km
 DEPTH = 5.0km (geophysicist)
 YUGOSLAVIA (383)
 ML 2.5 (TTG).

IVA 0.41 208 iPg 57 40.90 -0.5
 iSg 57 46.50
 PLE 0.57 280 iPg 57 44.50 0.1
 iSg 57 52.50
 PVY 0.66 192 ePg 57 45.20 -1.0
 eSg 57 52.20
 NKY 0.95 244 ePg 57 51.00 -0.7
 eSg 58 04.50
 TTG 1.04 220 ePg 57 52.00 -1.2
 eSg 58 07.20
 KKS 1.18 171 ePg 57 55.00 -0.5
 PUK 1.21 189 ePg 57 56.10 0.0
 SDA 1.32 202 ePn 57 58.40 0.6
 BDV 1.37 226 ePg 57 59.20 0.4
 eSg 58 20.50
 HCY 1.46 238 ePg 58 01.20 1.2
 eSg 58 22.80
 SKO 1.58 143 ePg 58 01.50 -0.3
 eSg 58 20.00
 TIR 1.90 187 ePn 58 08.80 2.3
 OHR 2.18 167 ePn 58 10.50 0.0
 BZS 2.60 23 ePc 58 16.00 -0.4
 HVAR 2.71 270 ePn 58 22.70 4.6X
 EYL 7.92 106 ePn 59 24.20 -7.5X
 S.D. = 1.0 on 14 of 16 obs.

AUG 14, 1990 15h 59m 07.86± 0.42s
 53.113 N ± 7.3km 158.714 E ± 7.3km
 DEPTH = 33.0km (normal)
 5.1mb (49 obs.)
 NEAR EAST COAST OF KAMCHATKA (218)

MAT 21.92 229 eP 04 05.00 5.1X
 INK 34.36 38 iPc 05 52.90 -0.2
 MBC 37.35 23 eP 06 18.50 0.2
 0.6s 11.00nm 4.9mb
 pP 07 07.00 229kmX
 YKA 43.71 42 eP 07 10.20 -0.7
 0.6s 2.90nm 4.2mb
 WMO 46.18 288 P 07 33.10 2.1
 KEV 52.53 341 eP 08 18.00 -1.4
 SOD 54.59 339 iP 08 33.80 -0.9
 KVN 56.20 69 P 08 46.80 -0.1
 eP 09 16.40 124kmX
 CHG 57.09 257 eP 08 51.30 -2.0
 CHTO 57.09 257 P 08 53.00 -0.3
 GUN 58.06 275 P 09 00.80 0.4
 0.4s 22.00nm 5.6mb
 KKN 58.51 275 P 09 03.50 0.1
 PKI 58.60 275 P 09 04.00 -0.1
 SUF 58.65 337 iP 09 03.30 -0.4
 0.6s 43.20nm 5.7mb
 GKN 58.74 276 P 09 04.40 -0.5
 DMN 58.75 275 P 09 04.80 -0.3
 0.6s 33.00nm 5.6mb
 NUR 60.93 336 iP 09 18.60 -0.7
 0.7s 14.70nm 5.2mb
 AKU 61.51 359 iP 09 24.50 1.4
 0.8s 17.91nm 5.3mb
 UPP 63.12 339 iP 09 33.00 -0.9
 NB2 63.29 343 P 09 34.10 -1.0
 0.7s 16.90nm 5.3mb
 HFS 63.67 341 eP 09 36.00 -1.6
 0.6s 14.80nm 5.3mb
 EKA 70.89 349 Pc 10 22.30 -0.7

0 5s 10.10nm 5.1mb
 KRA 71.47 333 eP 10 26.20 -0.4
 KSP 71.69 336 iPc 10 27.20 -0.7
 WIT 71.89 343 eP 10 30.00 1.0
 CLL 72.03 338 iPc 10 29.50 -0.4
 1.1s 34.00nm 5.3mb
 SPC 72.18 333 eP 10 31.60 0.6
 BRG 72.22 337 iP 10 30.20 -0.8
 1.0s 20.00nm 5.1mb
 WTS 72.65 342 iPc 10 33.90 0.4
 0.7s 39.00nm 5.5mb
 PRU 72.91 337 Pc 10 35.00 -0.1
 1.0s 17.40nm 5.0mb
 MOX 72.96 339 ePc 10 35.00 -0.4
 1.0s 26.00nm 5.2mb
 ZST 73.93 334 iP 10 41.30 0.3
 KHC 73.94 337 iPc 10 42.00 0.9
 1.0s 17.00nm 5.0mb
 GRF 73.94 339 iPc 10 41.70 0.6
 0.9s 43.00nm 5.4mb
 SRO 73.96 333 iP 10 41.80 0.6
 ENN 73.98 342 iPc 10 41.40 0.1
 1.0s 76.00nm 5.6mb
 GBA 74.02 271 P 10 41.90 -0.1
 WET 74.09 337 iPc 10 42.50 0.5
 0.8s 32.00nm 5.4mb
 MEM 74.12 342 iPc 10 42.34 0.3
 UCC 74.23 343 P 10 44.20 1.5
 SNF 74.52 343 iP 10 44.29 -0.1
 DOU 74.87 343 Pc 10 46.40 0.0
 BHG 75.42 337 eP 10 50.10 0.4
 WBS 75.69 204 eP 10 52.00 0.6
 WRA 75.76 204 Pd 10 51.70 -0.1
 0.4s 1.30nm 4.3mb
 CDF 75.98 341 eP 10 52.70 -0.3
 0.8s 26.85nm 5.3mb
 SQT 76.28 338 iPc 10 55.10 0.4
 0.8s 35.60nm 5.4mb
 i 10 59.40 14kmX
 i 11 03.40
 FEL 76.35 340 eP 10 54.78 -0.3
 PTJ 76.35 334 eP 10 54.30 -0.7
 SLE 76.35 340 ePc 10 54.60 -0.4
 FVI 76.50 337 P 10 55.50 -0.2
 HAU 76.55 341 eP 10 55.70 -0.4
 0.6s 18.95nm 5.3mb
 BSF 76.63 341 eP 10 56.00 -0.6
 0.8s 14.80nm 5.1mb
 ZLA 76.64 340 ePc 10 56.50 -0.1
 OGA 76.65 338 iPc 10 57.40 0.5
 0.8s 25.00nm 5.3mb
 FLN 76.98 346 eP 10 57.60 -0.8
 0.7s 8.80nm 4.9mb
 OSS 77.02 338 ePc 10 59.40 0.5
 LDF 77.09 346 eP 10 58.10 -0.9
 0.8s 6.70nm 4.7mb
 LLS 77.10 339 ePc 10 59.60 0.3
 VDL 77.36 339 ePc 11 01.50 0.7
 GRR 77.40 346 eP 10 59.80 -0.9
 1.0s 26.00nm 5.2mb
 LOR 77.72 343 eP 11 02.00 -0.5
 0.8s 22.15nm 5.2mb
 LPF 77.77 346 eP 11 02.30 -0.4
 1.0s 16.00nm 5.0mb
 GRC 77.84 343 P 11 03.34 0.2
 TMA 77.85 339 ePc 11 03.60 0.1
 LBF 77.98 343 eP 11 03.40 -0.6
 0.8s 8.05nm 4.8mb
 MDI 77.98 338 P 11 03.00 -0.9
 SSF 77.99 343 eP 11 03.60 -0.4
 0.8s 14.10nm 5.0mb
 MMK 78.10 340 ePc 11 05.60 0.7
 DIX 78.18 340 ePc 11 06.20 0.8
 AVF 78.28 343 eP 11 05.40 -0.1
 0.8s 21.50nm 5.2mb
 SMF 78.33 343 eP 11 05.70 -0.2
 1.0s 21.00nm 5.1mb
 SKO 78.38 329 eP 11 05.70 -0.5
 BGF 78.59 343 eP 11 07.00 -0.3
 0.9s 11.45nm 4.9mb
 VAY 78.62 328 eP 11 07.70 0.2
 HVAR 78.74 333 iPc 11 06.70 -1.4
 LPL 78.86 340 eP 11 09.80 0.7
 0 9s 37.65nm 5.4mb
 LPG 78.88 340 eP 11 09.90 0.7
 0.9s 45.05nm 5.5mb
 TCF 78.96 344 eP 11 09.20 -0.2

0.9s 10.65nm 4.8mb
 MAF 78.96 343 eP 11 09.60 0.2
 0.9s 17.20nm 5.1mb
 AGO 79.03 343 P 11 10.40 0.7
 MFF 79.04 345 eP 11 09.40 -0.3
 0.8s 9.40nm 4.8mb
 LSF 79.11 344 eP 11 10.00 -0.2
 0.9s 13.90nm 5.0mb
 MME 79.25 337 P 11 12.40 1.2
 PGD 79.31 336 P 11 13.00 1.5
 BNI 79.32 340 P 11 13.00 1.6
 PYM 79.34 343 P 11 12.03 0.5
 OHR 79.36 329 eP 11 11.20 -0.4
 BDI 79.40 337 Pd 11 13.00 1.2
 LBL 79.80 343 P 11 14.47 0.7
 RJF 80.03 344 eP 11 15.40 0.3
 1.0s 12.00nm 4.8mb
 SBF 80.30 339 eP 11 16.90 0.3
 0.7s 17.65nm 5.2mb
 CAF 80.31 343 eP 11 17.30 0.7
 1.0s 24.00nm 5.1mb
 LFF 80.52 344 eP 11 18.10 0.4
 1.1s 24.40nm 5.1mb
 AZI 80.65 335 P 11 19.00 0.6
 LPO 80.69 344 eP 11 19.00 0.4
 0.9s 19.65nm 5.1mb
 HRI 80.75 315 eP 11 19.20 0.0
 LRG 80.91 340 eP 11 19.60 -0.2
 0.9s 18.00nm 5.1mb
 RDP 81.06 335 P 11 20.00 -0.6
 PGF 81.21 338 eP 11 21.60 0.1
 0.6s 5.40nm 4.7mb
 ZNT 81.94 315 iPd 11 25.30 0.0
 DSI 82.36 314 iPd 11 27.50 0.0
 EPF 82.44 344 eP 11 27.60 -0.2
 0.7s 7.70nm 4.9mb
 PRNI 83.58 314 eP 11 33.80 -0.1
 S.D. = 0.7 on 103 of 104 obs.

AUG 14, 1990 16h 09m 57.42± 0.50s
 10.456 S ± 7.3km 123.956 E ± 8.0km
 DEPTH = 33.0km (normal)
 4.7mb (8 obs.)
 TIMOR (289)

KNA 7.05 139 eP 11 42.30 1.4
 eS 13 00.00
 MTN 7.42 109 eP 11 48.00 1.8
 eS 12 11.00
 MBL 11.36 200 eP 12 40.00 -0.5
 WBS 13.73 134 eP 13 10.20 -2.0
 eS 16 34.00
 WRA 13.76 135 Pd 13 11.20 -1.3
 0.8s 5.30nm 4.4mb
 NANU 14.49 213 eP 13 22.00 -0.1
 0.4s 17.00nm 4.9mb
 WARB 15.85 171 eP 13 40.20 0.4
 0.5s 7.00nm 4.1mb
 eS 16 28.00
 ASPA 16.20 145 iPd 13 44.20 -0.2
 0.6s 35.00nm 4.7mb
 eS 16 37.60
 MEKA 16.87 197 eP 13 59.00 6.3X
 QIS 18.10 126 eP 14 08.00 -0.1
 eS 17 20.00
 MRWA 20.10 201 eP 14 32.00 0.8
 MAT 48.63 15 eP 18 40.00 -0.2
 GBA 51.98 296 P 19 08.00 2.0
 0.6s 2.10nm 4.3mb
 GUN 53.04 317 P 19 13.60 -0.6
 PKI 53.14 316 P 19 14.20 -0.7
 0.5s 11.00nm 5.1mb
 KKN 53.37 316 P 19 16.40 0.0
 0.6s 11.00nm 5.0mb
 DMN 53.37 316 P 19 16.60 0.1
 GKN 53.94 316 P 19 19.80 -0.7
 0.4s 6.00nm 5.0mb
 S.D. = 1.1 on 17 of 18 obs.

AUG 14, 1990 16h 10m 54.88± 0.36s
 36.111 N ± 6.1km 100.078 E ± 4.7km
 DEPTH = 33.0km (normal)
 4.6mb (17 obs.)
 QINGHAI PROVINCE, CHINA (325)
 ML 4.7 (BJI).

LZH 3.05 89 Pnd 11 44.00 1.9

ALO	13.64	101 ePd	08 31.00	1.1	KVN	43.38	82 eP	53 29.00	-0.1	JSC	68.46	62 eP	56 27.80	-1.0
	1.4s	9.88nm		4.6mb	PTI	44.65	74 eP	53 39.50	0.2	HFS	68.46	353 eP	56 26.20	-2.2
MEO	19.78	94 eP	09 46.50	-0.7	IMW	44.92	72 eP	53 42.80	1.2		0.5s	9.30nm		5.1mb
FFC	21.22	35 eP	10 00.00	-2.0	BJI	45.33	282 eP	53 45.00	0.5	Z	20s	0.66um		4.9MsZ
	0.8s	18.00nm		4.5mb		1.1s	28.00nm		5.1mb			LR	20 22.00	
UYO	23.20	93 eP	10 21.70	-0.2		Z 22s	1.23um		4.8MsZ	LHS	68.56	61 eP	56 28.20	-1.2
PMR	27.97	333 eP	11 07.00	0.6		E 18s	1.02um			LOE	70.00	273 eP	56 36.80	-1.7
	0.9s	6.25nm		4.4mb			eS	00 20.00		CHG	70.69	276 eP	56 43.00	0.3
TTA	31.33	331 eP	11 36.00	-0.4			eSS	00 40.00		GUN	71.83	292 P	56 49.80	0.0
	0.8s	3 10nm		4.3mb	CLC	45.70	85 eP	53 58.00	10.4X	KKN	72.27	292 P	56 52.60	0.3
	31 obs. associated				SBB	46.28	86 eP	53 51.00	-1.2	PKI	72.36	292 P	56 53.30	0.3
					MWC	46.43	87 eP	54 01.00	7.4X	GKN	72.48	293 P	56 53.80	0.3
					GSC	46.52	85 eP	53 51.00	-3.1X	DMN	72.51	292 P	56 54.40	0.7
					HHC	47.65	286 P	54 05.00	2.0	EKA	73.68	3 P	57 01.00	1.2
AUG 14, 1990 19h 45m 28.14±0.24s						N 20s	1.10um				0.7s	7.50nm		4.8mb
51.294 N ± 5.9km 178.901 W ± 3.1km						E 20s	1.50um			DZM	74.17	194 iPc	57 04.80	1.7
DEPTH = 33.0km (normal)							SP	54 19.00		NNT	74.90	271 eP	57 01.40	-6.0X
5.2mb (59 obs.) 4.9MsZ (14 obs.)							PcP	55 34.00		NDI	76.16	299 eP	57 13.80	-0.6
ANDREANOF ISLANDS, ALEUTIAN IS. (7)							S	01 00.00		WTS	76.97	356 eP	57 20.00	1.4
ML 5.3 (PMR). Feit (III) on							SS	01 16.00			0.7s	11.00nm		5.0mb
Adak.					PLM	47.75	87 eP	54 04.00	0.0	CLL	77.28	352 eP	57 20.00	-0.3
CENTROID, MOMENT TENSOR (HRV)					TPC	47.77	86 eP	54 10.00	6.0X	KSP	77.43	350 eP	57 20.50	-0.6
Data Used: GDSN					SSE	47.93	269 Pc	54 06.00	0.8	BRG	77.63	352 eP	57 22.60	0.4
L.P.B.: 155, 30C						1.8s	62.00nm		5.3mb		i		57 24.50	
Centroid Location:						Z 20s	0.90um		4.7MsZ	KRA	77.76	348 eP	57 22.40	-0.6
Origin Time 19:45:30.0 0.8							S	01 02.00		MOX	78.05	353 e(P)	57 25.00	0.5
Lat 51.50N 0.06 Lan 178.40W 0.08					BAR	48.32	88 eP	54 20.00	11.8X	ENN	78.23	357 eP	57 26.00	0.5
Dep 30.9 3.2 Half-duration 2.2					BJO	48.74	287 P	54 12.50	1.1		0.9s	33.00nm		5.4mb
Moment Tensor; Scale 10**17 Nm						N 15s	1.00um			MEM	78.39	357 P	57 27.60	1.2
Mrr=-1.08 0.05 Mtt=-1.01 0.06						E 18s	1.50um			PRU	78.45	351 eP	57 26.50	-0.3
Mff=-0.06 0.05 Mrt=1.38 0.18							PP	54 23.00			Z 18s	0.90um		5.1MsZ
Mrf=1.13 0.13 Mtf=-0.44 0.06							SS	01 22.50			N 18s	0.50um		
Principal Axes:					TIY	49.06	282 eP	54 14.70	0.8		E 17s	0.50um		
T Val= 2.10 Plg=60 Azm=310						Z 24s	1.10um		4.8MsZ	SNF	78.54	358 P	57 26.70	-0.5
N 0.02 9 56						N 20s	0.50um			SPC	78.57	347 eP	57 28.90	1.2
P -2.13 29 151							S	01 10.00		DOU	78.95	358 P	57 31.10	1.7

14d 19h

BGF 82.52 359 eP 57 48.20 -0.2
0.9s 8.25nm 4.8mb
TCF 82.79 359 eP 57 49.20 -0.7
0.8s 13.45nm 5.1mb
VBY 82.81 350 eP 57 56.10 6.1X
LSF 82.84 360 eP 57 49.80 -0.3
0.6s 27.95nm 5.5mb
MAF 82.86 359 eP 57 50.20 0.0
0.7s 18.20nm 5.3mb
MDI 83.02 354 P 57 51.00 0.0
SAL 83.14 353 P 57 51.50 -0.1
ORX 83.27 355 P 57 53.88 1.4
LPL 83.45 356 eP 57 53.70 0.2
0.5s 4.00nm 4.8mb
LPG 83.47 356 eP 57 53.50 -0.2
0.5s 4.75nm 4.9mb
LSD 83.49 356 P 57 54.70 0.9
RJF 83.78 360 eP 57 54.90 0.0
0.9s 11.45nm 5.0mb
Z 20s 0.80um 5.1MsZ
BNI 83.91 356 P 57 56.70 0.9
RRL 84.04 356 P 57 57.47 0.9
LFF 84.15 0 eP 57 56.80 0.0
0.6s 37.90nm 5.7mb
CAF 84.16 359 eP 57 57.00 0.1
0.7s 13.80nm 5.2mb
HYB 84.19 290 eP 57 58.50 1.1
PCP 84.33 355 P 57 57.16 -0.6
LPO 84.40 360 eP 57 57.90 -0.2
0.6s 33.35nm 5.7mb
DOI 84.44 356 P 57 58.00 -0.4
MME 84.53 353 P 58 00.10 1.1
BDI 84.67 353 P 57 59.20 -0.3
FIN 84.68 355 P 57 59.01 -0.5
PGD 84.76 352 P 58 01.00 0.9
HVAR 84.97 349 iPd 57 59.80 -1.1
IMI 84.99 355 P 57 59.62 -1.5
PII 85.01 353 P 58 01.00 -0.1
SBF 85.07 355 eP 58 00.90 -0.6
0.8s 43.00nm 5.7mb
BBTK 85.11 336 eP 58 03.00 1.1
ASPA 85.38 222 eP 58 01.20 -1.9
0.9s 9.00nm 5.0mb
FRF 85.40 356 eP 58 02.80 -0.3
0.5s 13.85nm 5.4mb
SKO 85.44 345 iP 58 04.80 1.5
Z 17s 1.01um 5.3MsZ
N 18s 0.70um
E 18s 0.91um
iPcP 58 06.80
iS 08 28.00
LR 41 23.00
ASS 85.48 352 P 58 05.00 1.4
LRG 85.52 356 eP 58 03.60 -0.1
0.7s 17.65nm 5.4mb
Z 20s 0.57um 5.0MsZ
LMR 85.64 356 eP 58 04.00 -0.3
0.5s 16.05nm 5.5mb
VAY 85.88 344 eP 58 05.40 -0.1
EPF 86.05 1 eP 58 06.50 0.1
0.5s 5.10nm 5.0mb
PGF 86.29 354 eP 58 07.20 -0.5
0.5s 31.35nm 5.8mb
AZI 86.48 351 P 58 08.50 0.1
GBA 87.84 289 Pc 58 13.10 -2.3
0.9s 10.00nm 5.1mb
MGR 88.07 349 P 58 16.00 -0.2
TDS 88.45 348 P 58 18.70 0.7
TOL 89.09 4 eP 58 23.00 1.9
STK 89.82 213 eP 58 23.90 -0.4
1.6s 95.00nm 5.8mb
KIC 122.36 7 PKP 04 20.00 -1.4
BFT 146.23 308 iPKPd 05 08.00 2.3X
1.0s 130.00nm
SLR 147.13 311 iPKPc 05 09.50 2.5X
1.0s 60.00nm
BPI 147.62 311 ePKP 05 00.80 -7.0X
KSR 147.89 312 ePKP 05 12.00 3.7X
PRY 148.52 311 ePKP 05 17.50 8.3X
WIN 148.75 331 ePKP 05 13.50 3.7X
1.0s 40.00nm
SEK 149.61 309 ePKP 05 16.00 5.1X
0.3s 160.00nm
BLF 150.96 310 iPKPd 05 08.00 -4.9X
1.0s 260.00nm
FRS 151.91 311 ePKP 05 22.50 8.5X
S.D. = 1.0 on 152 of 175 obs.

? AUG 14, 1990 20h 28m 49.17±7.28s
30.078 S ±44.8km 72.272 W ±45.2km
DEPTH = 33.0km (normol)
OFF COAST OF CENTRAL CHILE (134)

RTRS 2.44 93 iPd 29 28.30 0.8
RTBS 2.89 124 e(P) 29 33.00 -0.9
JACH 2.97 151 eP 29 35.00 -0.1
IS 30 05.00
ROCH 3.08 160 iPd 29 38.50 1.7
IS 30 11.50
PEL 3.34 157 eP 29 39.40 -1.0
i 29 43.00
IS 30 21.50
ZON 3.42 116 eP 29 41.20 -0.3
LCC 3.44 170 eP 29 43.00 1.3
i 30 26.50
RTLL 3.50 112 ePd 29 41.50 -1.2
eS 30 17.30
FCH 3.65 153 eP 29 46.00 0.9
i 29 47.00
IS 30 23.50
TACH 3.74 163 eP 29 45.00 -1.0
i 29 45.50
i 30 24.00
PCH 3.84 157 eP 29 48.00 0.6
i 29 48.70
i 30 26.50
LNV 3.93 170 eP 29 47.50 -1.2
i 29 51.60
i 30 29.00
MDZ 4.05 135 eP 29 52.40 2.0
IS 30 40.70
CHCH 4.08 161 iPd 29 49.50 -1.4
IS 30 36.00
S.D. = 1.3 on 14 of 14 obs.

AUG 14, 1990 20h 58m 31.67±0.42s
38.823 S ±4.8km 175.688 E ±7.2km
DEPTH = 139.3 ±5.7 km
4.5mb (2 obs.)
NORTH ISLAND, NEW ZEALAND (159)
Felt at Dannevirke, Napier and
Wellington.

HITZ 0.13 28 Pc 58 50.90 0.4
S 59 04.90
HATZ 0.32 103 eP 58 51.10 0.1
NGZ 0.36 191 P 58 52.10 0.8
HUTZ 0.37 60 P 58 51.40 0.2
CNZ 0.39 196 P 58 52.20 0.8
DRZ 0.46 192 eP 58 52.60 0.4
WHH 0.63 96 Pc 58 52.60 -0.3
UTU 0.76 32 P 58 52.70 -1.0
TAZ 0.87 48 Pd 58 54.20 -0.4
WLZ 0.98 355 Pd 58 55.30 -0.2
TTH 1.14 129 P 58 58.20 1.2
MOH 1.18 106 P 58 58.40 1.0
MNG 1.80 185 Pc 59 05.20 1.0
NOZ 1.85 84 Pd 59 04.70 0.0
PGZ 1.85 166 P 59 05.50 0.8
KIW 2.12 196 Pc 59 08.50 0.4
PUZ 2.15 70 P 59 07.40 -1.0
S 59 32.60
CAW 2.33 192 Pc 59 10.90 0.2
MTW 2.34 183 Pc 59 10.80 0.1
HBZ 2.39 60 Pd 59 10.30 -1.1
WDW 2.50 192 Pd 59 12.60 -0.1
MRW 2.52 197 Pc 59 12.90 -0.1
BLW 2.55 184 Pc 59 13.30 -0.1
WEL 2.56 196 P 59 13.00 -0.5
S 59 42.00
MOW 2.62 187 P 59 14.00 -0.3
TCW 2.62 204 Pc 59 14.20 -0.1
THZ 3.63 215 P 59 26.50 -1.0
KHZ 3.95 204 P 59 30.70 -0.9
LTZ 4.73 212 P 59 39.80 -2.4
S 00 31.90
MOZ 5.39 204 P 59 47.50 -3.5X
ASPA 38.44 281 eP 05 41.00 -0.4
0.8s 20.00nm 4.9mb
WRA 40.24 286 P 05 58.00 1.8
0.5s 1.60nm 4.0mb
WB5 40.25 286 eP 05 57.10 0.8
SUF 149.81 332 iPKP 18 03.70 3.3X
0.4s 2.90nm

NUR 151.73 330 ePKP 18 09.00 5.6X
S.D. = 0.9 on 32 of 35 obs.

AUG 14, 1990 21h 03m 18.29±0.46s
43.928 N ±5.8km 7.673 E ±3.5km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 2.5 (LDG), 2.1 (GEN).

SAOF 0.10 305 Pg 03 21.74 0.7
IMI 0.16 97 P 03 22.45 0.5
S 03 25.32
SBF 0.18 249 Pg 03 22.50 0.1
Sg 03 25.50
AUTN 0.19 291 Pg 03 22.72 0.1
Sg 03 25.71
AURF 0.25 261 Pg 03 23.65 0.0
REVF 0.29 230 Pg 03 24.82 0.4
TOUF 0.32 286 Pg 03 25.01 0.0
MVIF 0.38 265 Pg 03 25.94 -0.1
Sg 03 31.75
FIN 0.48 54 P 03 28.29 0.3
S 03 34.65
FRF 0.83 244 Pg 03 33.60 -0.7
Sg 03 45.00
PCP 0.88 45 P 03 34.21 -1.0
S 03 46.22
LMR 1.03 235 Pg 03 37.40 -0.4
Sg 03 51.20
LRG 1.06 244 Pg 03 38.50 0.2
Sg 03 52.80
S.D. = 0.5 on 13 of 13 obs.

? AUG 14, 1990 21h 11m 48.61±0.76s
17.493 S ±37.6km 176.615 W ±22.9km
DEPTH = 260.0km (geophysicist)
4.7mb (5 obs.)

FIJI ISLANDS REGION (181)

DZM 16.58 251 iPc 15 31.00 3.0
BRS 29.89 245 iPd 17 34.00 -0.5
STK 40.33 241 eP 19 01.70 -0.9
1.8s 52.00nm 4.6mb
WB5 46.37 259 eP 19 51.00 -0.2
WRA 46.39 259 Pd 19 51.80 0.5
0.4s 13.80nm 4.6mb
ASPA 46.55 254 iPd 19 52.50 -0.1
0.7s 143.00nm 5.4mb
WARB 53.03 250 eP 20 40.00 -1.5
0.3s 3.00nm 4.2mb
NANU 63.48 253 iPc 21 52.30 -1.3
0.3s 6.00nm 4.8mb
MAT 68.61 322 eP 22 25.00 -0.6
KSP 145.16 346 iPKP 30 53.00 -3.4X
CLL 145.40 349 iPKPd 30 53.10 -3.7X
0.8s 15.00nm
BRG 145.64 348 e(PKP) 30 54.00 -3.2X
PRU 146.36 347 ePKP 30 56.00 -2.4
FLN 148.65 5 ePKP 31 00.60 -1.5
0.7s 6.60nm
CDF 149.00 355 ePKP 31 02.60 -0.2
0.6s 2.70nm
LPF 149.33 6 ePKP 31 02.30 -0.9
0.5s 4.35nm
HAU 149.47 356 ePKP 31 03.40 -0.1
0.6s 3.60nm
BSF 149.61 355 ePKP 31 03.80 0.0
0.6s 2.70nm
LOR 150.30 359 ePKP 31 05.00 0.3
0.5s 3.30nm
SSF 150.51 360 ePKP 31 05.60 0.6
0.8s 4.70nm
LBF 150.59 359 ePKP 31 05.90 0.7
0.6s 5.40nm
AVF 150.78 0 ePKP 31 05.80 0.4
0.6s 1.80nm
MFF 150.83 5 ePKP 31 06.00 0.5
BGF 151.01 1 ePKP 31 06.70 0.9
0.5s 5.10nm
TCF 151.27 2 ePKP 31 07.20 1.0
0.6s 2.70nm
LSF 151.28 3 ePKP 31 07.00 0.8
0.7s 6.60nm
MAF 151.35 1 ePKP 31 07.80 1.5
0.4s 2.60nm
LPL 151.92 355 ePKP 31 11.10 3.6X
LPG 151.94 355 ePKP 31 11.40 3.8X

S.D. = 1.2 on 24 of 29 obs.

AUG 14, 1990 21h 35m 38.89±0.99s
 37.008 N ± 9.9km 29.490 E ± 7.2km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

ELL 0.42 128 iPg 35 47.40 -0.2
 iSg 35 54.90
 YER 0.97 278 ePn 35 58.50 1.1
 BCK 0.99 62 iPn 35 57.40 -0.3
 CIN 1.27 298 ePg 36 01.00 -1.4
 iSg 36 17.00
 KHL 1.31 1 iPn 36 02.00 -0.6
 ALT 2.10 13 ePn 36 16.00 1.4
 S.D. = 1.3 on 6 of 6 obs.

? AUG 14, 1990 21h 57m 29.69±1.51s
 6.851 S ± 13.2km 76.890 W ± 20.6km
 DEPTH = 80.0km (geophysicist)
 3.6mb (1 obs.)
 NORTHERN PERU (111)

PT08 5.09 176 iP 58 46.20 0.8
 iS 59 37.70
 NNA 5.10 179 iP 58 45.70 0.3
 0.4s 6.78nm 4.2mb X
 eS 59 34.00
 PT10 5.19 181 i(P) 58 45.00 -1.6
 eS 59 38.00
 PT02 6.07 176 eP 58 57.30 -1.5
 e(S) 59 53.90
 PT06 6.96 176 iP 59 11.20 0.2
 iS 00 11.00
 PT03 7.18 171 i(P) 59 15.50 1.4
 ZOBO 12.70 138 eP 00 31.00 1.8
 CNCB 13.18 139 P 00 42.00 6.4X
 SIV 17.96 122 P 01 34.00 -1.7
 YKA 74.94 343 eP 09 03.80 0.3
 0.6s 0.50nm 3.6mb
 S.D. = 1.5 on 9 of 10 obs.

AUG 14, 1990 22h 44m 54.22±0.71s
 35.629 N ± 7.0km 11.460 E ± 3.8km
 DEPTH = 10.0km (geophysicist)
 3.8mb (2 obs.)
 TUNISIA (397)

CVT 2.31 27 Pc 45 32.20 -0.6
 FAI 2.43 47 P 45 35.00 0.5
 ERC 2.57 20 P 45 35.70 -0.9
 GIB 3.13 40 P 45 44.00 -0.6
 MNO 3.47 48 P 45 49.50 0.0
 ATN 4.08 51 P 45 58.00 0.0
 SOI 4.42 55 P 46 02.00 -0.8
 MGR 5.54 35 P 46 18.00 -0.8
 TDS 5.58 42 P 46 20.00 0.7
 SGO 5.78 31 P 46 21.30 -0.7
 BSS 5.79 26 P 46 23.20 1.1
 RDP 6.20 9 P 46 29.00 1.0
 RMP 6.25 9 P 46 29.50 0.8
 AZI 6.53 13 P 46 34.00 1.3
 MAO 6.78 358 P 46 37.00 0.8
 PGF 7.17 345 Pn 46 41.80 0.1
 Sn 47 59.90
 LMR 8.59 335 Pn 47 00.20 -1.3
 Sn 48 30.00
 FRF 8.75 336 Pn 47 02.40 -1.2
 LRG 8.75 335 Pn 47 03.10 -0.6
 Sn 48 36.60
 SBF 8.79 341 Pn 47 03.80 -0.4
 LPG 10.49 342 Pn 47 28.80 0.9
 LPL 10.51 341 Pn 47 28.30 0.2
 EPF 11.34 314 Pn 47 40.70 1.4
 CAF 11.73 325 Pn 47 44.20 -0.3
 LPO 11.97 322 Pn 47 47.70 -0.1
 RJF 12.27 325 Pn 47 50.80 -1.0
 LFF 12.38 322 Pn 47 53.80 0.6
 BGF 12.69 332 Pn 47 56.80 -0.7
 ZST 13.24 17 eP 48 14.60 9.9X
 KHC 13.58 6 eP 48 16.00 6.7X
 IFR 13.83 266 eP 48 13.00 0.2
 i 48 18.00
 SPC 15.01 23 eP 48 32.80 4.7X
 CLL 15.71 4 e(P) 48 45.00 7.9X
 RMN 20.06 98 e(P) 49 31.20 0.7
 PRNI 20.42 98 e(P) 49 33.50 -0.7

HFS 24.56 3 eP 50 15.70 0.7
 0.6s 1.60nm 3.8mb
 Z 20s 0.05um 3.0msz
 LR 58 21.00
 NB2 25.43 360 P 50 18.50 -4.9X
 0.8s 1.30nm 3.7mb
 S.D. = 0.8 on 32 of 37 obs.

AUG 14, 1990 23h 39m 19.12±0.53s
 46.800 N ± 4.8km 7.028 E ± 5.8km
 DEPTH = 10.0km (geophysicist)
 SWITZERLAND (544)

DIX 0.77 160 ePc 39 34.60 0.3
 MMK 0.99 139 ePc 39 38.40 0.3
 BSF 1.04 351 Pg 39 37.70 -1.2
 Sg 39 51.30
 ZLA 1.15 53 ePd 39 40.80 0.1
 HAU 1.29 339 Pg 39 41.40 -1.7
 Sg 39 58.00
 LPL 1.30 189 Pg 39 42.50 -0.9
 Sg 40 00.00
 LPG 1.32 189 Pg 39 42.40 -1.3
 Sg 40 00.10
 LLS 1.35 86 ePd 39 44.90 0.7
 SLE 1.39 45 iPd 39 44.40 -0.1
 CDF 1.62 6 Pg 39 49.10 1.2
 Sg 40 09.50
 LBF 2.10 276 Pg 39 55.70 0.9
 Sg 40 20.20
 LOR 2.22 283 Pg 39 56.20 -0.3
 Sg 40 23.40
 SSF 2.43 277 Pg 40 01.40 1.9
 Sg 40 30.10
 S.D. = 1.2 on 13 of 13 obs.

? AUG 14, 1990 23h 50m 10.86±13.94s
 61.515 N ± 77.3km 137.314 W ± 88.7km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN YUKON TERRITORY, CANADA(18)

HYT 0.70 188 Pd 50 23.30 -1.5
 BCPM 1.94 217 eP 50 45.04 0.9
 eS 51 06.50
 PCA 2.03 227 eP 50 45.14 -0.4
 eS 51 08.78
 HQN 2.21 201 eP 50 49.68 1.6
 eS 51 12.95
 YAH 2.45 244 eP 50 50.98 -0.8
 BALM 2.48 261 eP 50 52.00 0.0
 eS 51 20.00
 S.D. = 1.4 on 6 of 6 obs.

? AUG 15, 1990 01h 54m 10.29±4.82s
 12.915 S ± 9.3km 77.810 W ± 40.6km
 DEPTH = 10.0km (geophysicist)
 NEAR COAST OF PERU (115)

PT10 1.17 45 iPd 54 33.00 0.8
 iS 54 50.50
 NNA 1.32 46 iPc 54 33.90 -0.8
 iS 54 51.00
 PT02 1.34 91 iPc 54 35.00 0.0
 iS 54 53.20
 PT08 1.55 53 iP 54 38.30 -0.1
 iS 54 59.50
 PT06 1.70 122 eP 54 40.10 -0.1
 e(S) 55 08.90
 PT03 2.23 119 iPd 54 48.00 0.1
 i 54 55.20
 iS 55 28.40
 S.D. = 0.7 on 6 of 6 obs.

% AUG 15, 1990 02h 16m 28.07±1.11s
 42.562 N ± 8.0km 13.176 E ± 8.6km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)

AQU 0.27 141 P 16 33.10 -0.6
 eSg 16 38.20
 MNS 0.41 244 Pc 16 35.50 -0.9
 eSg 16 41.50
 AZI 0.60 161 P 16 40.50 0.3
 eSg 16 49.00
 ASS 0.63 324 P 16 41.10 0.3
 eSg 16 50.20
 RMP 0.83 205 P 16 44.50 0.4

eSg 16 58.00
 RDP 0.87 203 P 16 45.50 0.6
 S.D. = 0.8 on 6 of 6 obs.

* AUG 15, 1990 02h 55m 18.27±1.18s
 3.173 S ± 14.7km 130.307 E ± 17.1km
 DEPTH = 33.0km (normal)
 4.4mb (2 obs.)
 CERAM (272)

MTN 9.65 175 eP 57 39.00 1.1
 eS 59 23.00
 WB5 17.07 167 eP 59 14.60 -1.6
 i 59 19.10
 eS 02 16.80
 WRA 17.13 167 Pc 59 19.80 2.9X
 0.8s 7.10nm 3.8mb
 PMG 17.85 111 eP 59 26.00 0.2
 QIS 19.51 153 iPc 59 46.10 0.2
 ASPA 20.67 171 iPc 59 58.30 0.2
 1.0s 56.00nm 4.9mb
 eS 03 45.30
 CHG 37.82 306 eP 02 33.70 0.0
 S.D. = 1.1 on 6 of 7 obs.

? AUG 15, 1990 03h 11m 21.25±1.67s
 15.854 S ± 43.7km 72.997 W ± 23.4km
 DEPTH = 33.0km (normal)
 SOUTHERN PERU (117)

ARE 1.57 113 iPd 11 47.00 -0.4
 iS 12 05.50
 PT03 3.28 304 iPd 12 12.60 1.0
 iS 12 46.60
 PT06 3.80 302 iPd 12 39.20 20.3X
 iS 13 03.90
 PT02 4.41 311 iP 12 26.80 -0.9
 e(S) 13 15.20
 ZOBO 4.70 96 P 12 33.00 0.7
 CNCB 4.91 102 P 12 35.00 -0.2
 PT08 5.18 318 iP 12 38.40 -0.6
 iS 13 38.00
 NNA 5.36 315 eP 12 41.50 0.4
 eS 13 38.30
 PT10 5.38 314 e(P) 12 50.00 8.6X
 CCH 6.74 104 eP 13 21.00 20.1X
 S.D. = 0.9 on 7 of 10 obs.

? AUG 15, 1990 04h 12m 52.11±7.00s
 42.221 N ± 21.9km 139.266 E ± 61.8km
 DEPTH = 223.5 ± 47.6 km
 HOKKAIDO, JAPAN REGION (224)

MRRJ 1.35 81 eP 13 26.80 -0.2
 HOOJ 2.99 86 P 13 43.70 0.5
 S 14 20.30
 ASAJ 3.11 51 eP 13 44.90 0.2
 OFUJ 3.63 149 eP 13 50.80 0.0
 eS 14 33.30
 KUSJ 4.11 76 eP 13 56.10 -0.5
 eS 14 41.40
 S.D. = 0.7 on 5 of 5 obs.

* AUG 15, 1990 04h 24m 33.18±0.75s
 14.477 S ± 19.9km 75.002 W ± 12.9km
 DEPTH = 92.0 ± 7.6 km
 4.4mb (2 obs.)
 NEAR COAST OF PERU (115)

PT03 0.91 302 iPd 24 51.50 -0.8
 PT06 1.44 296 iPc 24 58.90 0.2
 iS 25 24.00
 PT02 2.07 317 iPc 25 02.20 -4.7X
 PT08 2.92 329 iPd 25 19.60 0.7
 NNA 3.06 324 iP 25 28.30 7.9X
 iS 25 44.00
 PT10 3.06 321 i(P) 25 21.00 0.6
 i 25 24.00
 e(S) 25 59.50
 ARE 3.92 121 eP 25 31.00 -1.6
 iS 26 24.00
 ZOBO 6.87 106 P 26 15.00 1.3
 CNCB 7.15 110 P 26 18.00 0.5
 CCH 9.00 110 P 26 43.00 0.4
 SIV 13.53 98 P 27 41.80 -0.8
 TUL 53.84 339 eP 33 48.20 -0.6
 0.8s 5.20nm 4.6mb

15d 04h

ALO 57.51 329 eP 34 14.00 -1.4
 1.0s 2.50nm 4.2mb
 ANMO 57.51 329 P 34 15.60 0.2
 SES 71.91 337 eP 35 48.00 -0.3
 WRA 135.24 221 PKP 43 46.00 1.4
 0.9s 1.90nm
 S.D. = 1.1 on 14 of 16 obs.

? AUG 15, 1990 04h 29m 15.34 ± 9.86s
 33.138 S ± 21.5km 72.408 W ± 78.7km
 DEPTH = 33.0km (normal)
 OFF COAST OF CENTRAL CHILE (134)

IHA 0.65 80 iPc 29 27.50 -0.6
 iS 29 35.00
 LCCH 0.78 116 iPd 29 29.10 -0.8
 iS 29 38.50
 LNV 1.17 135 iPc 29 35.30 0.0
 iS 29 49.50
 ROCH 1.18 82 iPd 29 35.50 -0.4
 iS 29 49.50
 TACH 1.33 113 iPc 29 37.80 0.0
 iS 29 53.60
 PEL 1.45 91 iPc 29 40.30 0.8
 iS 29 58.00
 SAN 1.50 103 eP 29 38.50 -1.7
 iS 29 58.20
 JACH 1.59 74 iPd 29 42.00 0.3
 iS 30 00.50
 i 30 04.70
 PCH 1.66 107 eP 29 43.30 0.7
 iS 30 03.70
 CHCH 1.67 119 iPd 29 43.40 0.7
 iS 30 03.70
 FCH 1.78 97 ePd 29 45.50 0.8
 iS 30 07.50
 MDZ 3.00 86 eP 30 08.40 6.7X
 iS 30 49.10
 S.D. = 0.9 on 11 of 12 obs.

AUG 15, 1990 05h 01m 42.58 ± 1.17s
 32.126 S ± 6.7km 71.526 W ± 11.3km
 DEPTH = 33.0km (normal)
 NEAR COAST OF CENTRAL CHILE (135)

IHA 0.90 186 eP 01 59.00 0.1
 iS 02 15.50
 ROCH 0.95 153 iPc 01 59.00 -0.8
 iS 02 14.50
 JACH 0.96 125 iPd 01 59.10 -0.8
 iS 02 13.50
 PEL 1.24 145 iPc 02 03.50 -0.2
 iS 02 21.60
 LCCH 1.35 182 iPd 02 05.50 0.3
 iS 02 26.00
 SAN 1.51 151 ePc 02 07.80 0.2
 iS 02 29.50
 FCH 1.59 139 ePc 02 09.20 0.2
 iS 02 30.70
 TACH 1.60 162 ePd 02 09.30 0.4
 i 02 34.50
 PCH 1.72 151 ePc 02 11.20 0.5
 i 02 37.00
 RTBS 1.82 76 ePc 02 12.30 0.2
 LNV 1.83 177 iPd 02 11.50 -0.7
 i 02 13.60
 iS 02 39.50
 CHCH 1.95 158 iPc 02 14.50 0.5
 iS 02 42.50
 MDZ 2.38 109 iP 02 24.80 4.6X
 i 02 56.80
 ZON 2.49 77 eP 02 22.20 0.4
 eS 02 35.20
 RTRS 2.63 43 ePc 02 23.30 -0.4
 RTLL 2.72 74 ePc 02 25.10 0.1
 S.D. = 0.5 on 15 of 16 obs.

? AUG 15, 1990 06h 04m 03.41 ± 11.08s
 33.131 S ± 23.6km 72.460 W ± 88.6km
 DEPTH = 33.0km (normal)
 OFF COAST OF CENTRAL CHILE (134)

IHA 0.70 82 iPc 04 15.50 -1.2
 iS 04 27.80
 LCCH 0.82 115 iPd 04 17.20 -1.3
 iS 04 26.50
 LNV 1.20 133 iPd 04 24.00 0.1

ROCH 1.23 83 iPd 04 23.90 -0.6
 iS 04 38.50
 TACH 1.38 113 iPc 04 26.20 -0.3
 iS 04 42.00
 PEL 1.49 91 iPc 04 28.50 0.3
 iS 04 46.50
 JACH 1.63 75 iPc 04 31.00 0.7
 i 04 48.50
 i 04 53.00
 PCH 1.70 107 iPc 04 31.70 0.4
 i 04 52.50
 CHCH 1.71 118 iPd 04 32.10 0.7
 iS 04 52.00
 FCH 1.83 97 iPd 04 34.00 0.6
 iS 04 55.50
 S.D. = 0.9 on 10 of 10 obs.

? AUG 15, 1990 06h 05m 58.42 ± 4.59s
 33.160 S ± 11.6km 72.204 W ± 33.7km
 DEPTH = 10.0km (geophysicist)
 OFF COAST OF CENTRAL CHILE (134)

LCCH 0.62 121 iPd 06 11.10 0.3
 iS 06 20.10
 ROCH 1.02 80 iPc 06 17.70 -0.2
 iS 06 32.50
 LNV 1.03 140 iPc 06 17.70 -0.2
 iS 06 31.20
 i 06 35.50
 TACH 1.17 115 iPc 06 19.60 -0.6
 iS 06 35.50
 PEL 1.27 90 iPd 06 22.50 0.4
 iS 06 40.00
 JACH 1.44 71 iPd 06 24.40 -0.2
 iS 06 42.60
 i 06 47.00
 PCH 1.49 108 iPc 06 25.50 0.2
 i 06 46.30
 CHCH 1.51 121 iPd 06 25.90 0.4
 i 06 47.40
 FCH 1.61 96 iPd 06 27.20 -0.1
 iS 06 49.00
 S.D. = 0.4 on 9 of 9 obs.

* AUG 15, 1990 06h 21m 13.68 ± 1.47s
 31.621 S ± 14.6km 179.737 E ± 15.0km
 DEPTH = 400.2 ± 16.7 km
 4.3mb (2 obs.)
 KERMADEC ISLANDS REGION (177)

HBZ 6.08 191 eP 22 49.60 1.9
 eS 24 01.30
 PUZ 6.55 190 eP 22 52.30 -0.7
 eS 24 11.70
 WLZ 7.08 208 eP 23 04.90 6.0X
 NOZ 7.12 191 eP 22 59.40 0.1
 WHH 7.72 199 eP 23 08.40 2.2
 TTH 8.25 196 eP 23 13.90 1.6
 PGZ 9.40 196 eP 23 25.90 0.3
 MNG 9.61 200 eP 23 28.20 0.1
 eS 25 14.40
 MTW 10.11 199 eP 23 32.30 -1.6
 CAW 10.19 200 P 23 32.70 -2.1
 WDW 10.36 200 eP 23 36.30 -0.4
 MRW 10.41 201 eP 23 36.60 -0.8
 eS 25 31.00
 MOW 10.42 199 eP 23 36.00 -1.6
 WEL 10.44 201 eP 23 39.00 1.3
 S 25 35.00
 THZ 11.51 206 eP 23 50.00 -0.3
 eS 25 54.60
 KHZ 11.85 203 P 23 53.10 -1.3
 LTZ 12.62 206 eP 24 02.80 -0.1
 MOZ 13.30 203 eP 24 09.70 -0.3
 eS 26 30.60
 DZM 15.19 306 iPd 24 30.10 -0.3
 WRA 42.23 275 Pc 28 31.60 0.5
 0.6s 2.70nm 3.8mb
 WB5 42.23 275 eP 28 31.90 0.7
 SPA 58.55 180 iPd 30 33.80 1.9
 0.9s 36.36nm 4.8mb
 i 31 27.50
 PLM 88.04 48 eP 33 21.00 0.0
 SBB 88.30 47 eP 33 21.00 -1.1
 GLA 89.16 50 eP 33 27.00 0.9
 KVN 90.98 44 P 33 33.30 -1.2

SUF 144.60 339 iPKP 40 02.50 -1.3
 0.5s 52.30nm
 NUR 146.74 338 iPKP 40 09.20 1.8
 0.8s 45.50nm
 BCAO 147.70 217 iPKPd 40 14.40 4.0X
 0.5s 29.00nm
 MKT 149.80 278 e(PKP) 40 20.00 6.8X
 PRNI 149.82 277 e(PKP) 40 20.00 6.8X
 MML 149.83 281 e(PKP) 40 20.50 7.3X
 NAO 149.88 349 PKP 40 17.00 4.7X
 0.6s 9.90nm
 HFS 150.00 346 ePKP 40 12.10 -0.4
 0.4s 3.30nm
 S.D. = 1.3 on 28 of 34 obs.

* AUG 15, 1990 07h 28m 46.33 ± 1.41s
 66.479 N ± 16.6km 144.456 W ± 12.3km
 DEPTH = 10.0km (geophysicist)
 ALASKA (676)

FBA 2.10 223 iPc 29 22.70 0.7
 DWY 3.22 137 P 29 36.80 -1.1
 IMA 3.75 268 eP 29 52.80 7.2X
 TOA 4.46 190 eP 29 55.60 0.1
 INK 4.60 62 P 29 58.00 0.5
 PMR 5.32 205 eP 30 09.10 1.5
 TTA 6.10 240 e(P) 30 17.00 -1.7
 S.D. = 1.5 on 6 of 7 obs.

AUG 15, 1990 07h 36m 45.01 ± 0.40s
 6.861 N ± 5.9km 73.011 W ± 5.3km
 DEPTH = 158.3 ± 5.6 km
 4.3mb (3 obs.)
 NORTHERN COLOMBIA (99)

BMG 0.22 343 eP 37 07.00 -0.9
 BOG 2.46 205 iPc 37 27.50 0.7
 iS 37 58.00
 SDV 3.10 49 ePn 37 37.00 2.3
 iSn 38 14.00
 TOV 4.31 47 iPnd 37 51.30 1.0
 iSn 38 40.70
 FISA 5.69 39 iPc 38 08.50 -0.1
 PLAV 6.22 61 eP 38 15.50 -0.4
 GUAC 6.57 59 iPd 38 20.50 -0.1
 UPA 6.80 288 (P) 38 23.00 -0.4
 OLLA 6.90 63 iPd 38 24.20 -0.7
 CAR 7.02 59 eP 38 26.00 -0.6
 PSO 7.09 218 eP 38 27.50 -0.2
 LLAV 7.11 59 iPc 38 27.50 -0.2
 GUAN 7.91 67 iPc 38 37.50 -0.9
 ZOBO 23.48 168 P 41 43.00 0.8
 i 42 15.00
 CNCB 24.04 168 P 41 47.00 -0.5
 i 42 22.00
 TUL 35.66 327 iP 43 29.40 -0.2
 0.8s 5.50nm 4.3mb
 i 43 35.30
 ALO 41.56 317 eP 44 19.00 0.2
 1.0s 2.50nm 3.8mb
 LRM 51.61 325 eP 45 37.60 0.1
 KVN 51.66 315 P 45 38.00 0.0
 SES 53.72 331 eP 45 53.00 0.3
 PNT 57.58 326 eP 46 21.00 0.7
 YKA 63.26 340 eP 46 57.80 -0.8
 0.6s 5.70nm 4.7mb
 WRA 150.45 241 PKPd 56 19.30 4.9X
 0.6s 1.80nm
 WB5 150.45 241 ePKP 56 19.00 4.6X
 S.D. = 0.8 on 22 of 24 obs.

? AUG 15, 1990 08h 00m 22.59 ± 3.02s
 33.699 S ± 18.2km 66.583 W ± 22.5km
 DEPTH = 10.0km (geophysicist)
 SAN LUIS PROVINCE, ARGENTINA (140)

CFA 2.51 326 e(P) 01 04.00 -0.1
 S 01 43.80
 ZON 2.78 320 eP 01 06.20 -1.8
 RTLL 2.85 325 ePc 01 08.80 -0.2
 FCH 3.12 276 iPd 01 14.00 1.0
 i 01 18.50
 RTBS 3.16 309 e(P) 01 14.20 0.9
 PCH 3.28 270 iPc 01 15.50 0.4
 i 01 22.50
 CHCH 3.40 265 eP 01 16.50 -0.2
 i 02 09.50

SAN 3.41 273 eP 01 17.00 0.0
 PEL 3.47 278 eP 01 18.00 0.2
 JACH 3.51 286 eP 01 25.00 6.6X
 LNV 4.03 265 iPc 01 24.50 -1.1
 RTRS 4.28 324 ePc 01 30.00 0.7
 IHA 4.29 278 eP 01 40.50 11.2X
 CNCB 16.86 355 eP 02 41.00 -0.9
 ZOBO 17.41 355 P 04 29.00 1.2
 S.D. = 1.0 on 13 of 15 obs.

& AUG 15, 1990 08h 15m 07.45s
 59.784 N 153.350 W
 DEPTH = 115.1km
 SOUTHERN ALASKA (2)
 <AGS-P>.

PDB 0.43 271 eP 15 23.72 -0.9
 AUE 0.43 182 iP 15 24.06 -0.6
 AUI 0.45 185 eP 15 24.18 -0.6
 RED 0.70 24 iP 15 25.84 -0.8
 MCNL 0.78 220 iP 15 26.35 -1.0
 CDD 0.87 190 iP 15 27.31 -0.8
 HOM 0.87 98 iP 15 27.47 -0.6
 XLV 0.89 111 eP 15 27.25 -1.0
 RDT 0.92 30 iP 15 27.77 -0.9
 >NNL 1.07 75 iP 15 30.08 0.0
 CNPM 1.10 103 iP 15 29.27 -1.2
 BRK 1.25 90 iP 15 30.74 -1.3
 SHU 1.27 156 eP 15 31.13 -1.1
 NKA 1.43 47 iP 15 34.88 0.8
 CKL 1.50 19 iP 15 34.33 -0.8
 SPU 1.54 24 eP 15 34.40 -1.1
 BGL 1.56 17 iP 15 35.16 -0.6
 CRP 1.60 21 eP 15 35.64 -0.7
 CGLM 1.67 23 iP 15 36.17 -0.9
 SLKM 1.73 64 eP 15 36.44 -1.3
 NCG 1.73 19 eP 15 37.08 -0.8
 SVW 1.74 321 iPc 15 36.30 -1.6
 SEW 1.99 79 eP 15 39.31 -1.7
 SUA 2.12 36 iP 15 41.81 -1.0
 SKT 2.38 21 iP 15 44.75 -1.3
 PMS 2.38 50 eP 15 44.46 -1.6
 PWA 2.53 41 eP 15 46.35 -1.7
 PLRM 2.76 47 eP 15 48.22 -2.8
 PMR 2.76 47 ePd 15 48.30 -2.7
 GHO 2.95 46 eP 15 51.06 -2.6
 CUT 3.03 28 eP 15 52.85 -1.7
 SML 3.19 48 iP 15 54.15 -2.7
 TTA 3.41 339 iPd 15 57.80 -2.0
 SCM 3.60 53 eP 15 59.78 -2.6
 VZW 3.60 66 eP 15 59.55 -2.9
 VLZ 3.73 66 eP 16 01.09 -3.0
 KTH 3.96 16 eP 16 05.04 -2.2
 KLU 4.04 62 iP 16 05.45 -3.0
 TOA 4.20 53 iPc 16 08.40 -2.2
 GLB 4.99 66 eP 16 18.33 -3.0
 WRH 5.31 25 eP 16 22.35 -3.3
 TGL 5.33 75 iP 16 23.81 -2.2
 CCB 5.52 26 eP 16 25.21 -3.4
 BALM 5.60 72 eP 16 27.51 -2.2
 FBA 5.75 24 iPc 16 28.50 -3.2
 GLM 5.91 25 eP 16 30.72 -3.3
 IMA 6.31 359 eP 16 37.40 -2.2
 BCPM 6.91 83 eP 16 45.74 -1.8
 HQN 7.35 86 eP 16 51.03 -2.5

49 obs. associated

? AUG 15, 1990 08h 58m 13.60 ± 1.54s
 31.003 S ± 9.9km 179.706 W ± 38.2km
 DEPTH = 358.3 ± 21.8 km
 5.5mb (2 obs.)

KERMADEC ISLANDS REGION (177)

HBZ 6.78 194 eP 59 56.50 2.3
 PUZ 7.25 193 eP 00 00.80 1.0
 NOZ 7.82 193 P 00 07.20 0.8
 WLZ 7.85 208 P 00 12.00 5.2X
 UTU 7.91 204 eP 00 12.20 4.6X
 WHH 8.46 201 eP 00 16.90 2.8
 MOH 8.51 197 eP 00 17.20 2.6
 TTH 8.98 197 P 00 20.10 -0.1
 NGZ 9.01 204 eP 00 22.70 1.9
 PGZ 10.13 198 P 00 32.80 -1.2
 MNG 10.36 201 eP 00 35.20 -1.5
 CAW 10.93 201 eP 00 41.80 -1.8
 BLW 11.05 199 eP 00 44.60 -0.4
 WDW 11.10 201 eP 00 44.30 -1.3
 MRW 11.16 202 eP 00 44.90 -1.4
 MOW 11.16 200 eP 00 44.80 -1.6
 WEL 11.19 202 eP 00 47.00 0.3
 TCW 11.29 204 eP 00 46.10 -1.7
 THZ 12.27 207 P 00 59.30 -0.4
 KHZ 12.61 204 P 01 02.50 -1.1
 VUN 13.05 352 eP 01 07.30 -1.6
 LTZ 13.39 206 P 01 11.80 -1.0
 NDF 13.44 348 eP 01 17.30 3.9X
 SGE 13.53 350 eP 01 13.60 -1.0
 MOZ 14.05 203 eP 01 20.40 0.4
 DZM 15.24 302 iPc 01 35.10 2.1
 WRA 42.66 274 P 05 42.00 4.0X
 WB5 42.66 274 eP 05 41.20 3.2X
 KVN 90.21 43 P 10 38.70 3.5X
 SUF 144.19 340 iPKP 17 09.50 1.8
 NUR 146.35 338 iPKP 17 16.40 5.0X
 HFS 149.52 347 ePKP 17 23.30 6.9X
 S.D. = 1.7 on 24 of 32 obs.

* AUG 15, 1990 09h 02m 24.51 ± 2.11s
 31.867 S ± 11.0km 71.685 W ± 19.4km
 DEPTH = 29.6 ± 5.6 km
 NEAR COAST OF CENTRAL CHILE (135)

IHA 1.16 178 eP 02 46.00 1.3
 JACH 1.23 132 iPd 02 45.00 -0.9
 ROCH 1.24 153 iPd 02 45.50 -0.6
 PEL 1.53 147 iPc 02 49.70 -0.4
 LCCH 1.61 177 iPd 02 51.70 0.5
 SAN 1.80 152 eP 02 54.50 0.4
 FCH 1.87 141 iPd 02 55.50 0.1
 TACH 1.89 161 ePd 02 54.70 -0.6
 RTBS 1.91 84 e(P) 02 56.70 1.1
 PCH 2.01 151 ePd 02 57.00 -0.1
 CHCH 2.24 157 eP 02 59.60 -0.7
 RTRS 2.55 49 ePc 03 03.40 -1.3
 ZON 2.58 84 eP 03 06.20 0.9
 RTLL 2.80 80 ePd 03 08.60 0.4
 CFA 2.95 86 e(P) 03 13.90 3.5X
 S.D. = 0.9 on 14 of 15 obs.

? AUG 15, 1990 09h 04m 11.86 ± 1.25s
 36.895 N ± 14.3km 29.590 E ± 11.0km
 DEPTH = 33.0km (normol)
 TURKEY (366)

ELL 0.29 120 iPg 04 19.80 0.1
 BCK 0.98 54 ePn 04 29.10 -0.2
 CIN 1.39 301 ePn 04 35.00 -0.1
 KHL 1.43 358 ePn 04 36.00 0.3
 S.D. = 0.4 on 4 of 4 obs.

% AUG 15, 1990 10h 28m 28.61 ± 0.94s
 26.193 S ± 10.6km 27.567 E ± 6.9km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)

BPI 0.42 88 eP 28 37.00 0.0
 KSR 0.69 298 eP 28 42.50 0.1
 PRY 0.74 187 eP 28 49.00 5.6X
 SLR 0.79 55 eP 28 43.50 -1.0
 EVA 1.39 103 eP 29 21.00 26.2X
 SEK 2.12 179 eP 29 05.00 -0.4
 BFT 2.29 78 eP 29 09.00 1.2
 BLF 3.15 203 eP 29 25.00 5.0X
 S.D. = 1.1 on 5 of 8 obs.

% AUG 15, 1990 10h 43m 53.59 ± 0.63s
 39.092 N ± 5.4km 27.684 E ± 5.8km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

IZM 0.77 206 ePg 44 08.50 -0.1
 DST 0.89 55 iPn 44 11.30 0.5
 EDC 1.26 6 ePn 44 16.40 -0.6
 KCT 1.27 24 iPn 44 17.20 0.1
 BNT 1.28 8 iPn 44 17.20 -0.1
 EZN 1.28 305 iPn 44 17.80 0.5
 KGT 1.39 348 iPn 44 18.70 -0.3
 IZI 1.86 47 ePn 44 26.00 0.2
 ALT 1.89 90 ePn 44 26.00 -0.3
 S.D. = 0.4 on 9 of 9 obs.

% AUG 15, 1990 12h 11m 02.18 ± 0.98s
 39.155 N ± 7.7km 27.664 E ± 13.3km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

IZM 0.82 203 ePg 11 18.00 -0.1
 DST 0.87 59 ePn 11 19.20 0.2
 EDC 1.20 7 ePn 11 23.40 -1.1
 BNT 1.22 9 iPn 11 25.20 0.4
 KGT 1.32 348 iPn 11 27.20 0.6
 S.D. = 1.0 on 5 of 5 obs.

% AUG 15, 1990 12h 27m 05.69 ± 0.97s
 26.386 S ± 6.9km 27.313 E ± 8.8km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 2.3 (PRE).

PRY 0.56 165 eP 27 16.50 -0.4
 KSR 0.64 324 eP 27 18.50 0.0
 BPI 0.68 72 eP 27 18.70 -0.6
 SLR 1.09 54 eP 27 25.70 -1.0
 EVA 1.59 95 eP 28 03.50 28.8X
 SEK 1.95 172 eP 27 40.00 0.1
 BFT 2.55 75 eP 27 50.50 1.9
 KIM 3.26 223 eP 28 06.50 7.9X
 S.D. = 1.3 on 6 of 8 obs.

AUG 15, 1990 12h 40m 19.26 ± 0.56s
26.364 S ± 5.2km 27.515 E ± 5.6km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.8 (PRE).

BPI 0.50 68 eP 40 29.50 0.2
S 40 35.00
PRY 0.56 184 eP 40 30.50 0.0
S 40 37.00
KSR 0.75 312 eP 40 34.50 0.3
SLR 0.93 48 eP 40 37.00 -0.6
S 40 49.40
EVA 1.41 96 eP 41 14.00 28.2X
S 41 31.50
SEK 1.95 177 iP 40 54.30 0.7
S 41 18.00
BFT 2.37 74 eP 40 59.90 0.2
BLF 2.98 203 eP 41 07.50 -0.7
KIM 3.40 225 eP 41 14.00 -0.2
S.D. = 0.6 on 8 of 9 obs.

AUG 15, 1990 12h 46m 20.34 ± 2.44s
23.955 N ± 10.9km 122.421 E ± 19.9km
DEPTH = 10.0km (geophysicist)
TAIWAN REGION (243)

TWD 0.76 280 iPc 46 35.10 -0.2
eS 46 46.60
TWC 0.83 321 iPd 46 36.00 -0.4
eS 46 48.90
TWF1 1.19 240 iPc 46 41.80 -0.8
TWZ 1.37 326 ePd 46 45.70 0.2
ANP 1.47 326 eP 46 47.00 0.0
TWO 1.48 283 ePd 46 47.70 0.6
TWK 1.90 249 ePc 46 53.80 0.6
SSE 7.20 352 eP 48 08.00 -0.1
S.D. = 0.6 on 8 of 8 obs.

AUG 15, 1990 12h 49m 47.37 ± 0.48s
13.714 N ± 6.6km 144.848 E ± 12.5km
DEPTH = 141.2 ± 4.4 km
4.4mb (7 obs.)
MARIANA ISLANDS (216)
Felt (IV) on Guam.

GUMO 0.13 172 eP 50 07.60 -0.1
PJG 0.13 172 eP 50 07.60 -0.1
GUA 0.19 160 iPc 50 07.70 -0.1
eS 50 20.70
MAT 23.50 346 iPd 54 44.70 -0.7
OIS 34.44 189 eP 56 23.00 -0.4
WB5 34.94 197 eP 56 27.00 -0.7
WRA 35.01 197 Pd 56 28.10 -0.1
0.6s 8.30nm 4.7mb
BJI 36.33 322 eP 56 39.50 0.3
1.2s 8.00nm 4.4mb
TIY 37.42 316 eP 56 49.40 0.9
ASPA 38.66 196 iPd 56 59.10 0.2
0.5s 8.00nm 4.7mb
BTO 40.52 318 eP 57 15.20 1.0
DZM 41.39 149 iPd 57 22.90 1.5
WARB 43.43 204 iPd 57 39.10 1.2
STK 45.44 184 eP 57 53.60 -0.2
0.6s 5.00nm 4.4mb
GTA 47.08 312 P 58 07.60 0.7
0.8s 6.00nm 4.3mb
INK 74.26 22 eP 01 10.00 -0.2
YKA 82.76 27 eP 01 55.50 -0.9
0.5s 1.70nm 4.1mb
PNT 83.29 41 eP 02 00.00 0.5
0.5s 2.00nm 4.2mb
KVN 86.85 51 P 02 18.00 1.2
LRM 88.91 43 eP 02 27.80 0.4
KIC 143.82 302 PKPd 09 06.60 -1.7
TIC 143.89 302 PKPd 09 07.00 -1.5
LIC 144.13 302 PKPd 09 07.70 -1.1
S.D. = 0.9 on 23 of 23 obs.

AUG 15, 1990 13h 23m 36.37 ± 0.20s
18.834 S ± 3.7km 69.096 W ± 5.5km
DEPTH = 120.2km (22 depth phases)
5.2mb (38 obs.)
NORTHERN CHILE (123)
Felt (IV) at Tacna and (III) at
Moqueguo, Peru. Also felt at

Arica, Chile.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 23C
Centroid Location:
Origin Time 13:23:46.1 0.6
Lat 18.43S 0.08 Lon 69.33W 0.07
Dep 136.5 3.6 Half-duration 1.7
Moment Tensor: Scale 10**17 Nm
Mrr=-0.55 0.05 Mlt=-0.50 0.09
Mff= 1.05 0.08 Mrt= 0.14 0.05
Mrf=-0.69 0.05 Mtf= 0.10 0.08
Principal Axes:
T Val= 1.31 Plg=20 Azm= 92
N -0.43 23 353
P -0.88 59 219
Best Double Couple: Mo=1.1*10**17
NP1: Strike=215 Dip=32 Slip=-43
NP2: 343 69 -114

CNCB 2.28 28 iPd 24 18.10 3.7X
ZOBO 2.71 20 iPd 24 23.80 3.7X
CCH 3.16 63 iPc 24 29.50 3.7X
ARE 3.28 316 iPc 24 26.20 -1.3
ANT 5.00 194 iP 24 48.00 -2.4
i 25 26.50
iS 25 39.50
PT03 8.03 306 iPd 25 27.00 -4.8X
eS 26 43.70
SIV 8.16 71 iPc 25 32.00 -1.6
PT06 8.54 305 iPc 25 34.50 -4.2X
iS 26 48.50
PT08 9.92 313 iPd 25 53.80 -3.7
iS 26 31.40
NNA 10.10 311 iPd 25 54.50 -5.2X
0.7s 45.89nm 5.4mb
iS 27 46.00
RTRS 11.29 182 ePc 26 12.60 -2.6
RTLL 12.45 178 ePd 26 26.90 -3.7X
RTCB 12.60 179 e(P) 26 29.00 -3.5
ZON 12.66 178 eP 26 31.20 -2.1
CFA 12.74 177 e(P) 26 30.50 -3.8X
JACH 13.86 185 eP 26 49.00 0.2
ROCH 14.18 187 ePd 26 53.50 0.3
IHA 14.32 189 eP 26 53.50 -1.1
e 29 56.00
PEL 14.32 185 iPc 26 55.00 0.3
1.0s 190.00nm 5.3mb
FCH 14.47 184 iPd 26 57.60 0.6
SAN 14.63 185 iPc 26 58.50 -0.1
LCCH 14.75 188 eP 27 00.30 0.2
i 27 04.50
PCH 14.78 185 iPc 27 00.60 0.0
TACH 14.85 186 ePc 27 00.80 -0.6
LNV 15.20 187 eP 27 03.00 -2.8
PPD 16.97 104 eP 27 30.00 2.1
e 27 30.50
e 27 34.10
VAO 21.08 105 eP 28 11.60 -1.1
e 28 12.30 3kmX
e 28 13.50
e 28 15.70
PSO 21.48 337 eP 28 18.00 0.9
BMA 23.63 104 ePd 28 38.60 1.0
e 28 40.80 8kmX
e 28 47.10
e 28 53.40
JFO 24.34 101 eP 28 44.30 -0.1
eTT 28 45.60 15kmX
e 28 48.40
SDV 27.59 357 iPd 29 12.40 -2.1
TOV 28.45 359 eP 29 20.60 -1.5
OLLA 28.76 5 iPc 29 23.00 -1.9
GUAN 28.81 7 eP 29 23.50 -1.9
LLAV 29.21 5 iPc 29 27.20 -1.8
PDCR 29.50 82 eP 29 29.30 -2.2
i 29 31.10 6kmX
e 30 20.20
AIA 46.50 177 eP 31 55.50 2.7X
JSC 54.07 348 P 32 48.60 -2.1
PRM 54.12 346 P 32 50.50 -0.5
LHS 54.18 348 P 32 49.10 -2.3
TKL 55.95 346 P 33 04.80 0.5
GBTN 56.06 345 P 33 03.60 -1.5
BLA 56.76 349 P 33 09.20 -0.8
OLY 58.06 339 P 33 16.50 -2.6
POW 58.55 339 P 33 20.50 -2.0

pP 33 50.00 122km
P 33 30.70 -1.5
pP 33 59.90 120km
TUL 60.03 335 iPd 33 31.90 -0.8
1.0s 31.00nm 5.3mb
MEO 60.24 332 iPd 33 32.30 -1.8
OCO 60.39 334 eP 33 33.90 -1.2
0.7s 52.10nm 5.7mb
ALQ 64.18 326 eP 33 59.80 -0.8
0.8s 9.51nm 4.8mb
epP 34 30.00 124km
ANMO 64.19 326 P 33 59.80 -0.8
1.0s 18.75nm 5.0mb
CBM 65.46 1 P 34 08.60 0.3
pP 34 37.50 117km
GLD 67.33 330 P 34 20.00 -0.6
1.0s 57.50nm 5.4mb
GOL 67.36 330 P 34 20.00 -0.9
1.0s 30.00nm 5.1mb
pP 34 50.00 121km
LIC 67.84 75 Pc 34 23.10 -0.9
0.7s 63.50nm 5.6mb
TIC 68.01 74 Pc 34 24.14 -1.0
1.0s 96.00nm 5.6mb
KIC 68.15 75 Pc 34 25.24 -0.8
0.7s 133.50nm 5.9mb
BAR 68.51 318 eP 34 29.00 1.1
e 35 10.00 172kmX
LKO 68.66 71 Pc 34 27.40 -1.8
0.6s 110.50nm 5.9mb
TPC 69.06 320 eP 34 32.00 0.7
e 35 14.00 176kmX
RVR 69.81 319 eP 34 36.00 0.2
e 35 19.00 180kmX
MSU 69.90 325 P 34 37.20 0.7
pP 35 06.80 119km
GSC 70.32 320 eP 34 39.00 0.0
e 35 09.00 120km
MWC 70.39 318 eP 34 40.00 0.4
e 35 22.00 175kmX
SBB 70.55 319 eP 34 40.00 -0.3
e 35 22.00 175kmX
CLC 71.15 320 eP 34 44.00 0.1
e 35 26.00 175kmX
SPA 71.28 180 iPd 34 44.80 0.4
1.0s 83.00nm 5.5mb
i 35 01.20 60kmX
ISA 71.59 319 eP 34 48.00 1.4
e 35 30.00 174kmX
SYP 71.80 318 eP 34 45.00 -2.9
e 35 31.00 193kmX
FRI 73.20 320 eP 34 58.20 2.3
IMW 73.24 330 P 34 56.70 0.3
PRI 73.26 319 eP 34 57.50 1.1
epP 35 27.00 117km
eS 35 40.50
SCH 73.38 1 eP 34 56.00 -0.5
KVN 73.59 322 P 34 58.60 0.2
LLA 73.73 319 eP 35 00.20 1.2
epP 35 29.80 117km
eS 35 42.50
PRS 73.82 318 eP 35 00.50 1.0
epP 35 30.20 117km
eS 35 43.30
CMB 74.29 320 eP 35 02.50 0.2
epP 35 32.60 119km
eS 35 45.30
ARN 74.56 319 P 35 05.00 1.2
MHC 74.62 319 eP 35 05.40 1.1
epP 35 35.30 118km
eS 35 48.20
GCC 74.65 319 eP 35 05.20 0.9
epP 35 35.20 119km
eS 35 48.00
PCC 75.18 319 eP 35 08.80 1.5
BRK 75.33 319 eP 35 09.00 0.8
LRM 75.39 330 eP 35 09.00 0.3
ORV 75.92 321 eP 35 12.40 0.9
epP 35 42.00 116km
eS 35 55.60
MIN 76.49 321 eP 35 14.50 -0.3
WDC 77.19 321 eP 35 17.30 -1.2
epP 35 47.40 118km
eS 36 00.50
TIO 77.29 51 iPc 35 21.00 1.6
i 35 34.00 44kmX
LBFM 77.29 322 P 35 19.80 0.5

EBAN	1.96	340	ePn	57	18.90	0.5		0.6s	23.00nm	5.5mb		38.634 N ± 7.4km	31.411 E ± 9.5km			
			eSn	57	43.00		NUR	61.78	338	eP	14	17.00	-1.2			
EPRU	1.97	290	ePn	57	20.50	2.1	ALO	62.91	67	eP	14	31.00	4.6x			
			eSn	57	45.00			1.0s	2.50nm	4.3mb		TURKEY	(366)			
EJIF	2.06	274	iPnc	57	20.60	0.8	NAO	64.06	345	P	14	32.30	-1.0			
			eSn	57	47.00			0.7s	3.50nm	4.6mb		ALT	1.10 293 iPn 33 19.20 -0.1			
OJEN	2.13	265	eP	57	26.00	5.2X	HFS	64.26	344	eP	14	33.00	-1.6			
NKM	2.20	247	iPc	57	28.00	6.2X		0.5s	3.80nm	4.8mb		BCK	1.34 209 ePn 33 23.30 0.0			
			i	58	06.00		Z	20s	0.05um	3.7msz		BBTK	1.60 41 ePg 33 27.00 0.0			
MOMI	2.26	271	eP	57	27.00	4.3X			LR	40	48.00		GPA	1.86 333 ePn 33 31.00 0.3		
PLAT	2.30	266	eP	57	28.00	4.7X	QUE	69.99	294	eP	15	11.09	-0.3			
EVIA	2.33	8	eP	57	25.60	1.8	KSP	72.53	339	eP	15	30.70	4.6X			
			eS	57	53.50		CLL	72.76	341	eP	15	27.00	-0.4			
EHOR	2.38	309	ePn	57	24.20	-0.2			i	15	32.50	18km	EYL	2.16 334 ePn 33 34.90 -0.3		
			eSn	57	54.00		MOX	73.66	342	eP	15	44.00	11.3X	IZI	2.27 319 ePn 33 36.80 0.1	
CNIL	2.53	272	eP	57	32.00	5.6X	KHC	74.72	340	P	15	40.00	1.1		S.D. = 0.2 on 6 of 6 obs.	
ACU	2.96	42	ePn	57	31.90	-0.7	WB5	77.16	208	eP	15	52.90	0.0		AUG 15, 1990 21h 24m 42.49± 0.42s	
EVAL	3.31	293	ePn	57	38.90	1.3	WRA	77.23	208	Pc	15	53.10	-0.2		4.294 S ± 5.1km 80.758 W ± 8.5km	
			eSn	58	15.80			0.7s	3.00nm	4.5mb					DEPTH = 32.8km (3 depth phases)	
IFR	3.34	214	iPc	57	37.00	-1.1	PGD	80.12	340	P	16	11.00	1.9		5.0mb (33 obs.) 4.2msz (2 obs.)	
			i	58	15.00										PERU-ECUADOR BORDER REGION (110)	
ECHE	3.61	25	ePn	57	41.20	-0.6									VC1	4.33 33 P 25 49.80 1.6
TOL	3.66	346	iPnc	57	43.50	0.9									GGP	4.63 28 P+ 25 54.00 1.5
			iPg	57	58.50		? AUG 15, 1990 19h 10m 01.55± 3.01s								OTO	4.63 29 iPd 25 54.20 1.8
			iSn	58	35.50		31.515 S ± 15.2km 68.102 W ± 34.5km								OUR	4.66 29 Pd 25 54.00 1.2
			iSb	58	44.50		DEPTH = 33.0km (normol)								YANA	4.69 28 P+ 25 51.80 -1.5
			iSg	58	53.50		SAN JUAN PROVINCE, ARGENTINA (137)								ANGL	5.03 40 eP 26 08.10 10.0X
FIG	4.02	283	eP	57	47.50	-0.1	CFA	0.15	232	Pd	10	06.20	-1.5		COTA	5.20 28 eP 26 02.00 1.5
			iS	58	36.50				eS	10	14.00			PSO	6.44 32 eP 26 18.50 0.6	
GUD	4.42	348	ePn	57	53.20	-0.3	RTLL	0.36	300	iPc	10	09.00	-1.2		PT10	8.59 154 iP 26 49.50 1.9
			eSn	58	42.70		RTCV	0.51	227	e(P)	10	09.40	-2.9X			eS 28 32.50
EPLA	4.49	327	ePn	57	53.70	-0.6	RTCB	0.60	273	eP	10	14.00	0.4		PT08	8.68 152 iPc 26 51.50 2.3

15d 23h

MME 82.76 328 P 21 03.90 0.8
 GRC 82.77 334 P 21 02.90 0.1
 BRT 82.79 322 P 21 03.00 0.0
 SSF 82.84 334 iPc 21 03.10 0.0
 0.9s 32.75nm 5.1mb
 LCI 82.88 321 P 21 03.00 -0.4
 BDI 82.92 328 P 21 02.90 -0.8
 GRR 82.98 337 iPc 21 03.70 -0.1
 0.9s 42.60nm 5.3mb
 NPS 83.07 313 eP 21 04.00 -0.5
 SMF 83.10 333 eP 21 04.50 0.0
 LPL 83.10 331 iPc 21 05.10 0.3
 0.9s 37.65nm 5.2mb
 LPG 83.11 331 iPc 21 05.20 0.3
 0.8s 36.25nm 5.2mb
 AVF 83.13 334 iPc 21 04.70 0.1
 AQU 83.22 325 P 21 05.50 0.3
 PII 83.23 328 P 21 04.00 -1.1
 VLI 83.34 316 eP 21 04.30 -1.5
 LPF 83.36 337 iPc 21 05.90 0.2
 0.7s 28.65nm 5.2mb
 VLS 83.36 318 eP 21 05.50 -0.4
 CKI 83.48 329 Pc 21 06.00 -0.4
 ITM 83.49 317 iPc 21 06.00 -0.6
 MNS 83.49 326 Pc 21 06.00 -0.6
 BGF 83.50 334 eP 21 06.40 -0.1
 0.9s 13.90nm 4.8mb
 AZI 83.51 325 P 21 07.00 0.5
 BNI 83.52 331 Pc 21 07.30 0.5
 MEO 83.67 47 iPc 21 08.00 0.4
 OCO 83.68 46 ePd 21 08.30 0.7
 0.8s 127.60nm 5.8mb
 GRN 83.69 331 P 21 07.34 -0.2
 VAM 83.71 314 eP 21 08.20 0.5
 DHLJ 83.75 307 Pd 20 53.40 -14.6X
 ORI 83.78 322 P 21 08.90 0.9
 DOI 83.79 330 P 21 06.00 -2.1
 AGO 83.85 333 P 21 08.91 0.6
 SGO 83.88 323 Pc 21 08.30 -0.2
 MAF 83.89 334 iPc 21 09.00 0.5
 BSS 83.91 323 Pc 21 08.30 -0.3
 TCF 83.94 334 iPc 21 09.00 0.2
 0.9s 24.55nm 5.6mb
 RMP 83.96 325 P 21 08.00 -0.9
 SIO 84.11 45 iP 21 10.50 0.7
 MGR 84.12 322 Pc 21 08.50 -1.2
 TDS 84.16 322 P 21 10.40 0.5
 PYM 84.16 333 P 21 10.42 0.5
 LSF 84.19 334 iPc 21 10.30 0.3
 TUL 84.25 44 iPc 21 11.00 0.6
 0.7s 107.80nm 5.8mb
 SBF 84.28 330 eP 21 09.90 -0.6
 0.8s 49.70nm 5.4mb
 MFF 84.39 336 iPc 21 11.30 0.4
 0.7s 22.05nm 5.1mb
 LBL 84.54 333 P 21 12.53 0.9
 FRF 84.83 330 eP 21 12.90 -0.3
 1.1s 46.40nm 5.2mb
 LRG 85.02 330 eP 21 14.20 0.1
 0.8s 73.90nm 5.5mb
 RJF 85.04 334 iPc 21 14.60 0.4
 1.1s 26.85nm 5.0mb
 Z 20s 0.10um 4.2msz
 LMR 85.07 330 eP 21 14.30 -0.1
 0.8s 65.80nm 5.5mb
 CAF 85.20 333 iPc 21 16.20 1.1
 1.1s 63.50nm 5.3mb
 FVM 85.21 40 P 21 15.30 0.1
 CBM 85.52 21 P 21 16.50 -0.1
 SOI 85.58 321 Pc 21 17.00 0.0
 LFF 85.61 334 iPc 21 18.00 1.0
 1.0s 98.00nm 5.6mb
 LPO 85.70 334 iPc 21 18.50 1.0
 1.0s 56.00nm 5.3mb
 RSNY 85.84 26 P 21 17.60 -0.6
 0.7s 16.15nm 5.0mb
 UYO 86.29 45 iPd 21 20.50 -0.1
 ELC 86.33 39 P 21 20.20 -0.5
 HBVT 86.47 25 P 21 21.50 0.2
 OLY 86.71 42 P 21 22.50 -0.1
 BNH 86.80 24 P 21 23.60 0.7
 GRT 87.07 40 P 21 25.00 0.7
 EPF 87.45 334 iPc 21 26.40 0.3
 0.8s 21.50nm 5.1mb
 TBR 88.99 27 P 21 33.60 0.2
 RSCP 89.37 38 P 21 35.10 -0.3
 0.7s 53.63nm 5.7mb

GBTN 89.92 37 P 21 37.70 -0.1
 TKL 90.11 37 P 21 38.80 0.1
 BLA 90.18 33 P 21 38.80 -0.3
 0.9s 37.19nm 5.4mb
 ETOR 90.21 334 eP 21 39.70 0.5
 CBN 90.49 31 eP 21 40.00 -0.4
 GUD 91.01 336 eP 21 43.00 0.0
 TOL 91.68 335 iPc 21 45.50 -0.4
 1.2s 93.75nm 5.8mb
 EPLA 92.10 337 eP 21 48.00 0.1
 EVIA 92.34 334 eP 21 49.70 0.6
 LMS 92.38 35 P 21 48.80 -0.3
 ASMO 93.90 334 iPc 21 52.50 -3.8X
 AAPN 94.07 335 iPc 21 53.20 -3.9X
 ALOJ 94.24 334 eP 21 54.30 -3.6X
 APHE 94.26 334 iPc 21 54.00 -4.0X
 ATEJ 94.39 334 iPc 21 54.70 -3.9X
 LKO 119.89 324 PKPc 27 26.64 -2.2
 0.6s 16.50nm
 TIC 122.23 322 PKP 27 32.50 -0.8
 KIC 122.36 321 PKP 27 32.72 -0.8
 LIC 122.61 322 PKP 27 33.22 -0.8
 SLR 125.03 266 iPKPc 27 38.50 -0.1
 SEK 127.01 264 ePKP 27 42.00 -0.4
 28 26.30
 ZOBO 141.79 54 PKP 28 07.00 -3.9X
 LPB 142.01 54 PKP 28 06.00 -5.1X
 CNCB 142.30 54 ePKP 28 07.00 -4.8X
 28 09.00
 CAI 142.92 1 ePKP 28 08.00 -4.2X
 CCH 143.82 53 PKP 28 12.50 -1.5
 SIV 145.44 44 PKPc 28 14.00 -2.4
 PDCR 148.82 5 ePKP 28 19.60 -2.2
 28 21.60
 28 25.50
 28 37.00
 29 09.50
 S.D. = 0.7 on 320 of 335 obs.

* AUG 15, 1990 23h 19m 18.56±19.82s
 37.250 N ±105.km 20.415 E ±130.km
 DEPTH = 5.0km (geophysicist)
 IONIAN SEA (399)
 MD 2.8 (ATH).

VLS 0.94 8 ePg 19 36.50 -0.4
 ITM 1.21 93 ePg 19 41.50 0.0
 EVR 1.99 33 ePn 19 54.60 1.2
 VLI 2.09 104 ePg 20 00.00 5.4X
 KEK 2.51 349 ePg 20 14.00 13.4X
 NEO 3.02 46 ePn 20 07.00 -0.9
 S.D. = 1.6 on 4 of 6 obs.

* AUG 16, 1990 00h 27m 48.16±1.20s
 31.702 S ±6.3km 72.622 W ±12.3km
 DEPTH = 33.0km (normal)
 4.8mb (2 obs.)
 OFF COAST OF CENTRAL CHILE (134)

IHA 1.56 148 eP 28 14.50 0.6
 28 40.00
 ROCH 1.86 133 ePd 28 17.80 -0.7
 28 40.50
 JACH 1.98 120 iPc 28 18.60 -1.5
 LCCH 1.98 154 iPc 28 20.90 0.9
 28 43.50
 28 53.00
 PEL 2.18 132 iPc 28 22.00 -0.9
 28 49.50
 SAN 2.41 137 iPc 28 28.00 1.9
 28 56.50
 TACH 2.41 144 iPc 28 26.50 0.4
 28 52.90
 29 00.50
 LNV 2.47 156 iPd 28 27.20 0.3
 28 34.00
 28 58.00
 FCH 2.55 130 iPc 28 27.90 -0.5
 28 59.50
 PCH 2.61 138 ePc 28 28.60 -0.5
 29 01.20
 29 05.00
 RTBS 2.70 90 ePd 28 31.00 0.8
 CHCH 2.78 144 iPd 28 32.00 0.7
 29 01.00
 RTRS 3.12 61 ePc 28 36.20 0.1

RTCB 3.27 87 ePc 28 38.10 -0.3
 ZON 3.37 88 eP 28 40.20 0.4
 MDZ 3.40 111 iP 28 41.90 1.6
 28 45.10
 29 20.20
 RTCV 3.48 94 e(P) 28 39.90 -1.5
 RTLL 3.57 85 eP 28 42.20 -0.4
 CNCB 15.41 17 eP 31 30.00 4.6X
 LPB 15.65 16 eP 31 46.00 17.6X
 ZOBO 15.90 16 P 31 34.00 2.3
 Z 16s 0.22um
 LR 38 04.00
 SIV 18.85 37 P 32 06.20 -1.8
 SPA 58.47 180 eP 37 41.00 -2.2
 0.8s 5.00nm 4.7mb
 LKO 76.00 69 P 39 34.24 0.1
 1.0s 16.50nm 5.0mb
 GBA 147.18 116 PKPd 47 32.30 4.5X
 0.6s 3.60nm
 S.D. = 1.2 on 22 of 25 obs.

* AUG 16, 1990 00h 33m 35.47±2.16s
 31.946 S ±10.4km 71.712 W ±19.6km
 DEPTH = 10.0km (geophysicist)
 NEAR COAST OF CENTRAL CHILE (135)

ROCH 1.18 150 iPd 33 57.00 -0.7
 34 18.00
 JACH 1.20 128 iPd 33 57.20 -0.7
 34 17.60
 PEL 1.48 144 iPd 34 02.80 0.7
 34 28.50
 LCCH 1.53 176 iPd 34 04.10 1.3
 TACH 1.82 159 eP 34 05.00 -2.1
 34 30.60
 FCH 1.83 139 iPc 34 08.00 0.5
 34 36.50
 RTBS 1.94 82 eP 34 10.00 1.2
 (S) 34 39.70
 PCH 1.95 149 eP 34 10.20 1.1
 34 43.40
 LNV 2.02 173 iPc 34 10.50 0.6
 34 43.40
 CHCH 2.17 156 iPd 34 11.00 -1.2
 34 49.30
 RTCB 2.52 80 eP 34 17.00 -0.3
 34 18.60
 MDZ 2.59 112 eP 34 24.70 6.4X
 35 02.80
 RTRS 2.62 48 ePc 34 17.30 -1.2
 eS 34 53.00
 RTLL 2.83 78 ePd 34 22.50 0.8
 S.D. = 1.2 on 13 of 14 obs.

* AUG 16, 1990 00h 38m 22.98±13.23s
 31.525 S ±21.0km 72.137 W ±108.km
 DEPTH = 33.0km (normal)
 OFF COAST OF CENTRAL CHILE (134)

RTBS 2.29 94 eP 38 59.80 0.6
 RTRS 2.67 60 iPc 39 04.60 0.1
 RTCB 2.85 90 e(P) 39 06.20 -1.0
 MDZ 3.10 117 eP 39 10.70 -0.1
 39 49.70
 RTLL 3.14 87 ePd 39 11.90 0.6
 S.D. = 0.9 on 5 of 5 obs.

* AUG 16, 1990 01h 04m 52.34±8.08s
 16.983 S ±103.km 74.215 W ±57.7km
 DEPTH = 33.0km (normal)
 NEAR COAST OF PERU (115)

PT03 3.34 333 iP 05 44.10 0.5
 06 29.80
 PT06 3.74 327 iPc 05 49.20 0.0
 PT08 5.48 335 i(P) 06 13.60 -0.6
 07 14.60
 PT10 5.56 331 e(P) 06 25.50 10.5X
 e(S) 07 25.00
 NNA 5.58 333 iP 06 19.70 4.4X
 0.4s 6.78nm 4.5mb X
 07 20.00
 LPB 5.88 87 P 06 20.00 0.1
 ZOBO 5.88 84 P 06 20.20 0.1
 CNCB 5.97 89 P 06 21.00 -0.3
 S.D. = 0.5 on 6 of 8 obs.

% AUG 16, 1990 02h 05m 02.31±3.04s
33.435 S ± 7.7km 70.801 W ± 10.0km
DEPTH = 69.6 ± 32.1 km
CHILE-ARGENTINA BORDER REGION (127)

TACH	0.25	208	iPc	05 13.00	-0.3
			iS	05 21.50	
PCH	0.30	128	iPd	05 13.80	0.1
			iS	05 23.00	
PEL	0.31	19	iPd	05 13.90	0.2
			iS	05 23.00	
FCH	0.44	76	iPd	05 15.20	0.1
			iS	05 25.10	
ROCH	0.49	339	iPd	05 15.30	-0.2
			iS	05 25.50	
CHCH	0.51	166	iPc	05 15.50	0.1
			iS	05 26.50	
LCCH	0.64	266	iP	05 17.10	0.4
			iS	05 28.60	
LNv	0.73	224	iPc	05 17.50	-0.2
			iS	05 28.50	
JACH	0.77	13	iPc	05 18.20	-0.1
			iS	05 30.50	

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

* AUG 16, 1990 02h 11m 01.35±3.75s
31.753 S ± 13.7km 72.610 W ± 31.0km
DEPTH = 33.0km (normal)
OFF COAST OF CENTRAL CHILE (134)

ROCH	1.82	132	iPd	11 29.90	-1.2
			iS	11 52.20	
LCCH	1.93	153	iPc	11 33.00	0.6
			iS	11 58.20	
			i	12 05.40	
JACH	1.94	119	iPc	11 31.00	-1.8
			i	11 51.50	
PEL	2.14	131	iPc	11 34.40	-1.1
			i	11 37.10	
			iS	12 02.50	
SAN	2.36	136	eP	11 39.50	0.8
			i	12 11.00	
TACH	2.36	144	iPd	11 39.00	0.4
			iS	12 06.50	
LNv	2.42	156	iPc	11 39.00	-0.4
			i	12 16.50	
			i	12 40.50	
FCH	2.51	129	iPc	11 40.70	-0.3
			iS	12 08.20	
PCH	2.57	137	eP	11 42.50	0.9
			iS	12 10.00	
RTBS	2.69	89	ePd	11 43.00	-0.2
			(S)	12 12.00	
CHCH	2.73	143	iPc	11 43.90	0.1
			iS	12 17.50	
RTRS	3.13	61	ePc	11 49.00	-0.5
RTCB	3.26	86	eP	11 52.00	0.5
ZON	3.36	87	eP	11 53.20	0.4
MDZ	3.38	110	eP	11 54.80	1.7
			i	11 57.10	
			iS	12 34.60	
RTLL	3.56	84	ePd	11 55.80	0.1
			eS	12 56.00	

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

* AUG 16, 1990 02h 13m 32.24±1.96s
31.319 S ± 8.7km 73.384 W ± 22.3km
DEPTH = 33.0km (normal)
OFF COAST OF CENTRAL CHILE (134)

IHA	2.25	139	eP	14 08.50	0.6
			iS	14 31.00	
ROCH	2.60	130	ePc	14 11.50	-1.6
			iS	14 34.00	
LCCH	2.64	145	iP	14 14.20	0.8
			iS	14 41.00	
JACH	2.73	121	iPd	14 12.20	-2.6
			i	14 33.00	
PEL	2.92	129	iPd	14 16.70	-0.8
LNv	3.11	148	iPc	14 21.00	0.9
			i	14 47.70	
			i	14 58.50	
TACH	3.11	139	iPc	14 20.70	0.5
			i	14 57.00	
SAN	3.14	133	iPc	14 22.00	1.5
			i	14 52.50	
FCH	3.30	128	iPd	14 22.00	-1.1

PCH	3.34	134	ePc	14 52.20	
RTBS	3.38	97	eP	14 23.20	-0.3
CHCH	3.48	139	eP	14 25.00	1.1
			i	14 57.50	
RTRS	3.57	72	ePd	14 30.00	3.4X
ZON	4.03	94	eP	14 35.20	2.0
MDZ	4.15	113	iP	14 38.60	3.6X
			iS	15 15.90	
RTCV	4.17	99	e(P)	14 33.30	-1.9
RTLL	4.21	91	ePd	14 37.00	1.3
CNCB	15.26	20	eP	17 10.00	2.5
LPB	15.49	19	(P)	17 10.00	-0.3
ZOBO	15.73	19	P	17 11.00	-2.6
SIV	18.95	39	P	18 00.80	7.5X

S.D. = 1.6 on 18 of 21 obs.

* AUG 16, 1990 03h 14m 02.23±0.63s
54.258 N ± 12.7km 161.053 E ± 16.6km
DEPTH = 33.0km (normal)
4.5mb (11 obs.)
NEAR EAST COAST OF KAMCHATKA (218)

MAT	23.72	231	(P)	19 13.00	1.1
KVN	54.50	71	P	23 30.00	1.1
SUF	58.14	337	iP	23 54.40	0.0
			0.4s	4.60nm	4.9mb
NAO	62.85	344	P	24 25.00	-1.5
			0.7s	2.30nm	4.4mb
HFS	63.01	342	eP	24 25.40	-2.2
			0.4s	1.50nm	4.5mb
ALO	63.85	66	eP	24 33.00	-0.7
WB5	77.31	206	eP	25 53.70	-1.1
WRA	77.38	206	Pd	25 54.60	-0.6
			0.5s	1.50nm	4.3mb
AVF	77.56	345	eP	25 55.80	-0.2
			1.0s	4.00nm	4.4mb
LPL	78.23	342	eP	26 01.00	1.1
			0.9s	3.30nm	4.4mb
MAF	78.24	345	eP	26 00.10	0.4
			0.9s	3.30nm	4.4mb
LPG	78.24	342	eP	26 01.10	1.0
			0.9s	4.90nm	4.5mb
RJF	79.29	345	eP	26 06.50	1.0
			0.8s	5.35nm	4.6mb
CAF	79.58	345	eP	26 07.50	0.4
			0.8s	8.05nm	4.8mb
LPO	79.95	346	eP	26 09.40	0.4
			0.5s	2.90nm	4.5mb

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

* AUG 16, 1990 03h 30m 28.46±1.04s
38.785 N ± 12.7km 24.851 E ± 9.1km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 3.0 (ATH).

PRK	1.20	67	ePn	30 51.50	0.7
NEO	1.37	293	ePb	30 55.00	1.4
EZN	1.55	47	iPn	30 55.50	-0.5
PLG	1.92	326	ePn	31 00.50	-1.1
RDO	2.42	12	ePb	31 16.20	7.6X
VLI	2.56	217	ePn	31 10.20	-0.5
DST	3.05	73	ePn	31 20.00	2.4X

S.D. = 1.4 on 5 of 7 obs.

AUG 16, 1990 03h 43m 01.59±0.26s
44.615 N ± 2.2km 7.318 E ± 3.1km
DEPTH = 7.6 ± 2.5 km
NORTHERN ITALY (545)
ML 2.8 (GEN), 2.8 (LDG), MD 2.4 (STR).

DOI	0.12	205	P	43 05.10	0.6
			eSg	43 09.10	
PZZ	0.19	235	P	43 05.10	-0.6
ENR	0.40	169	P	43 10.10	0.5
RRL	0.49	309	P	43 10.75	-0.7
			S	43 16.57	
ROB	0.51	129	P	43 12.90	1.0
TOUF	0.60	185	Pg	43 13.70	-0.1
AUTN	0.62	173	Pg	43 14.00	-0.2
BNI	0.63	314	Pc	43 13.30	-1.0
			eSg	43 22.50	
SAOF	0.65	165	Pg	43 14.35	-0.4
			Sg	43 23.71	
CKI	0.71	105	P	43 16.50	0.6

			eSg	43 27.50	
AURF	0.73	179	Pg	43 15.89	-0.3
			Sg	43 26.38	
MVIF	0.73	189	Pg	43 15.82	-0.4
			Sg	43 25.73	
FIN	0.76	122	P	43 17.10	0.5
			S	43 26.40	
SBF	0.76	174	Pg	43 16.40	-0.3
			Sg	43 26.50	
IMI	0.82	150	P	43 17.64	0.0
			S	43 28.62	
LSD	0.85	352	P	43 18.10	-0.3
			S	43 28.50	
REVF	0.88	178	Pg	43 18.90	0.2
PCP	0.88	94	P	43 19.70	0.9
			S	43 32.10	
CALN	0.92	200	Pg	43 19.25	-0.2
			Sg	43 31.94	
LPG	0.97	336	Pg	43 20.00	-0.4
			Sg	43 31.80	
LPL	0.99	335	Pg	43 20.30	-0.5
			Sg	43 32.20	
ORO	1.11	25	P	43 21.60	-1.2
			eSg	43 35.50	
ORX	1.12	25	P	43 21.50	-1.4
			S	43 35.30	
FRF	1.16	205	Pg	43 23.30	-0.2
			Sg	43 38.60	
LRG	1.35	211	Pn	43 25.90	-0.8
			Pg	43 26.30	
			Sg	43 44.50	
LMR	1.41	205	Pg	43 27.20	-0.4
			Sg	43 46.00	
CDR	1.46	230	ePgc	43 28.30	0.0
			i	43 29.10	
			eSg	43 46.80	
MDI	2.05	55	P	43 34.00	-2.8
PGF	2.40	149	Pn	43 38.70	-3.3X
			Sn	44 08.20	
SMF	3.17	311	Pn	43 54.00	1.2
			Sn	44 29.80	
BSF	3.24	354	Pn	43 54.20	0.4
			Sn	44 30.20	
LBF	3.33	317	Pn	43 55.30	0.2
			Sn	44 35.40	
HAU	3.46	349	Pn	43 59.30	2.4
			Sn	44 38.60	
AVF	3.53	309	Pn	43 58.70	0.9
			Sn	44 40.20	
LOR	3.59	319	Pn	43 59.00	0.3
			Sn	44 40.60	
SSF	3.62	314	Pn	43 59.30	0.2
BGF	3.69	303	Pn	44 00.40	0.2
MAF	3.71	297	Pn	44 01.70	1.2
CAF	3.75	277	Pn	44 00.30	-0.8
CDF	3.80	360	Pn	44 03.00	1.2
			Sn	44 47.30	
TCF	3.96	297	Pn	44 04.40	0.3

S.D. = 0.9 on 40 of 41 obs.

* AUG 16, 1990 04h 03m 30.99±7.43s
31.583 S ± 23.2km 73.169 W ± 60.3km
DEPTH = 33.0km (normal)
OFF COAST OF CENTRAL CHILE (134)

16d 04h

ZON 3.83 91 eP 04 30.20 1.0
 MDZ 3.88 111 eP 04 34.10 4.2X
 RTLL 4.02 88 ePc 04 32.30 0.4
 S.D. = 1.3 on 14 of 15 obs.

* AUG 16, 1990 04h 04m 55.31 ± 2.36s
 3.156 N ± 9.0km 128.508 E ± 14.5km
 DEPTH = 92.8 ± 22.1 km
 4.8mb (6 obs.)

NORTH OF HALMAHERA (264)

MNI 4.04 245 eP 05 56.00 -0.1
 WB5 23.60 166 iPd 09 58.70 -0.1
 WRA 23.66 166 Pd 09 59.90 0.6
 0.5s 22.00nm 4.8mb
 QIS 25.96 156 eP 10 21.00 0.0
 ASPA 27.17 169 iPd 10 31.50 -0.6
 0.5s 17.00nm 4.8mb
 Z 25s 0.11um 3.3MsZx

WARB 29.22 183 eP 10 50.50 0.0
 CHG 32.84 300 iPd 11 21.70 -0.7
 0.9s 12.40nm 4.7mb
 KMI 33.05 314 P 11 26.50 2.1
 MAT 34.41 14 (P) 11 35.00 -0.7
 STK 37.00 161 iPd 11 57.00 -0.6
 0.4s 25.00nm 5.5mb

BJI 38.38 345 eP 12 09.00 -0.1
 1.0s 10.00nm 4.7mb
 ADE 39.11 167 eP 12 16.30 1.0
 LZH 39.91 328 P 12 22.50 0.5
 1.3s 27.00nm 4.9mb
 sP 12 38.50

KKN 47.94 305 P 13 26.20 -0.6
 GKN 48.55 305 P 13 31.20 -0.2
 GBA 51.48 285 P 13 53.00 -0.7
 S.D. = 0.8 on 16 of 16 obs.

AUG 16, 1990 04h 32m 18.59 ± 0.34s
 44.709 N ± 3.6km 34.948 E ± 3.6km
 DEPTH = 25.6km (5 depth phases)
 4.6mb (35 obs.)

CRIMEA REGION (361)

Felt (IV) at Feodosiya and
 Sudak; (III) at Alushta,
 Simferopol and Yalta, USSR.

KAS 3.45 195 ePn 33 13.50 1.6
 KVT 3.71 167 iPn 33 15.80 0.1
 CFR 4.85 278 ePd 33 32.00 0.3
 TLB 4.94 271 iPc 33 33.50 0.6
 PSN 4.97 260 iPc 33 35.00 1.5
 BBTK 5.13 199 iPnd 33 36.00 0.2
 i 33 46.00
 iS 34 48.00

PPE 5.37 289 ePc 33 38.50 -0.7
 EYL 5.44 222 iPn 33 41.70 1.4
 HRT 5.49 227 ePn 33 41.50 0.6
 GPA 5.59 219 iPn 33 43.00 0.7
 BRD 5.65 281 ePd 33 46.00 2.9X
 ISK 5.65 232 ePn 33 43.20 0.1
 IAS 5.72 298 eP 33 37.00 -7.0X
 VRI 5.92 284 ePd 33 47.50 0.7
 IZI 5.95 225 ePn 33 47.70 0.3
 CTT 5.96 236 iPn 33 47.20 -0.3
 ISR 5.98 277 ePc 33 49.00 1.2
 BUC 6.33 270 eP 33 54.00 1.3
 BUC1 6.39 270 ePc 33 52.00 -1.4
 MLR 6.42 280 iPc 33 54.00 -0.1
 JMB 6.47 253 iPc 33 54.00 -0.7
 ALT 6.70 214 ePn 33 58.30 0.3
 BNT 6.77 232 iPn 33 56.20 -2.7
 EDC 6.81 233 ePn 33 58.80 -0.6
 DST 6.93 225 iPn 34 00.60 -0.5
 CMP 7.05 278 ePc 34 03.00 0.2
 KGT 7.06 236 iPn 34 02.70 -0.2
 PVL 7.10 261 iPd 34 04.00 0.6
 DIM 7.36 252 iP 34 06.00 -1.0
 KHL 7.57 214 ePn 34 10.00 -0.1
 TNR 7.60 281 ePd 34 10.00 -0.5
 KDZ 7.61 250 iPc 34 10.00 -0.6
 GAZ 7.72 166 iPn 34 10.80 -1.3
 PLD 7.90 254 eP 34 14.00 -0.7
 BCK 7.95 206 ePn 34 15.10 -0.4

EZN 8.04 236 iPn 34 15.00 -1.6
 RZN 8.06 252 eP 34 15.00 -2.1
 PGB 8.11 258 eP 34 17.00 -0.7
 BMR 8.48 295 ePc 34 32.00 9.3X
 VTS 8.77 260 iPc 34 27.00 0.1
 MMB 8.77 253 eP 34 29.00 2.2
 ELL 8.82 207 eP 34 29.30 1.7
 KKB 9.11 256 eP 34 30.00 -1.4
 OUR 9.20 245 eP 34 46.40 13.8X
 KNT 9.52 252 eP 34 36.20 -0.9
 VAY 9.68 254 ePn 34 39.00 -0.2
 SKO 10.21 259 ePn 34 50.00 3.4X

N 11s 0.89um
 E 11s 0.67um
 i 36 25.00
 i 36 33.50
 i 36 37.00
 i 36 55.00
 i 37 10.00
 LR 41 14.00

BHL 10.80 177 P 34 56.00 1.2
 PSZ 10.90 292 e(P) 34 57.00 1.0
 SPC 11.00 299 eP 34 53.90 -3.7X
 i 37 05.50
 BUD 11.40 290 eP 35 04.00 1.2
 KRA 11.49 303 eP 35 00.30 -3.7X

Z 13s 2.30um
 E 13s 3.20um
 i 35 02.90
 i 35 19.80
 e 37 44.00
 e 35 11.70 1.8
 ZST 12.79 292 eP 35 24.00 2.6
 2.8s 0.28nm 2.9mb X
 SOP 13.08 290 eP 35 33.00 7.7X
 PTJ 13.42 282 eP 35 30.00 0.1
 BRT 13.58 260 P 35 33.00 1.1
 VBY 13.93 280 e(P) 35 46.40 9.9X
 KSP 13.95 303 eP 35 32.50 -4.2X
 i 35 35.60
 e 38 25.50

LJU 14.41 283 e(P) 35 42.50 -0.3
 TDS 14.68 256 P 35 48.50 2.1
 PRU 14.79 298 eP 35 47.50 -0.2
 Z 14s 1.30um
 N 13s 0.70um
 E 12s 1.10um

TRI 14.97 281 P 35 58.50 8.5X
 MGR 15.03 259 P 35 52.00 1.2
 SGO 15.03 261 P 35 51.00 0.1
 KHC 15.24 294 eP 35 50.40 -3.3X
 Z 14s 1.30um
 E 14s 1.00um

BRG 15.38 301 eP 35 59.40
 1.2s 19.00nm 4.2mb
 e 39 27.60
 e 36 01.00 2.6
 FVI 15.61 285 P 36 04.40 3.5X
 AQU 15.80 269 P 36 06.00 4.2X
 AZI 15.88 268 P 36 06.00 4.2X
 CLL 16.07 302 iPd 36 03.90 -0.3
 1.6s 110.00nm 4.7mb
 i 36 08.70
 eS 40 58.00

MNS 16.31 270 P 36 12.50 5.1X
 RDP 16.46 267 P 36 14.50 5.2X
 PGD 16.64 275 P 36 15.00 3.2X
 SOTA 16.68 287 iPc 36 14.60 2.4
 1.0s 33.80nm 4.4mb
 i 36 20.20
 i 36 24.00
 MOX 16.76 299 eP 36 11.00 -2.1
 Z 10s 1.60um
 N 11s 0.70um
 E 11s 1.10um

GRF 16.85 296 eP 36 13.40 -0.7
 Z 15s 1.40um
 e 36 19.40
 e 36 09.00 -6.6X
 0.7s 17.40nm 4.3mb
 i 36 12.30

SAL 17.24 282 P 36 22.50 3.5X
 MME 17.31 277 P 36 24.10 3.9X
 BDI 17.41 276 P 36 24.00 2.8
 OSS 17.42 285 ePd 36 22.60 1.1
 PII 17.53 275 P 36 33.50 10.9X

MDI 17.79 282 P 36 28.50 2.7
 VDL 17.90 285 ePd 36 29.10 1.6
 SAX 17.95 287 ePd 36 28.30 0.1
 LLS 18.20 286 ePd 36 30.90 -0.3
 TMA 18.34 284 ePd 36 33.60 0.7
 UPP 18.41 332 iP 36 27.70 -5.7X
 iS 39 46.00
 SLE 18.52 289 ePd 36 32.50 -2.4
 ZLA 18.60 288 ePd 36 35.50 -0.4
 SUF 18.75 347 eP 36 33.00 -4.5X
 MMK 18.97 284 ePd 36 40.50 -0.2
 CKI 18.98 279 P 36 43.00 2.5
 ORO 19.01 282 P 36 47.00 6.0X
 CDF 19.34 291 eP 36 44.40 -0.5
 1.1s 12.20nm 4.1mb
 DIX 19.36 284 ePd 36 44.70 -0.6
 DOI 19.69 279 P 36 47.50 -1.4
 LPL 19.89 282 eP 36 50.40 -0.7
 0.8s 33.60nm 4.7mb
 HAU 19.96 290 eP 36 50.40 -1.2
 0.7s 6.60nm 4.1mb
 Z 20s 0.15um 4.1MsZx
 WTS 19.98 301 eP 36 51.50 -0.1
 1.0s 57.00nm 4.9mb
 e 36 57.50 23km
 BNI 20.00 281 P 36 51.70 -0.4
 HFS 20.02 328 eP 36 48.30 -3.7X
 0.4s 15.10nm 4.7mb
 Z 15s 0.95um 4.3MsZx

LR 43 30.00
 WIT 20.23 304 eP 36 55.00 0.8
 ENN 20.36 298 eP 36 55.50 -0.1
 1.3s 50.00nm 4.7mb
 MAIO 20.41 106 eP 36 56.00 -0.4
 eS 40 45.00
 DOU 21.15 296 P 37 05.20 1.4
 e 37 14.00 32km
 S 41 02.00

NAO 21.55 327 P 37 05.70 -2.0
 0.6s 14.10nm 4.6mb
 LBF 21.63 287 eP 37 07.80 -0.9
 1.0s 24.00nm 4.6mb
 LOR 21.68 288 eP 37 07.50 -1.7
 0.9s 22.10nm 4.6mb
 Z 19s 0.22um 3.6MsZ

SMF 21.75 286 eP 37 10.20 0.3
 0.8s 19.50nm 4.6mb
 SSF 21.94 287 eP 37 10.00 -1.7
 0.6s 11.70nm 4.5mb
 AVF 22.07 287 eP 37 12.40 -0.6
 0.8s 14.10nm 4.5mb
 BGF 22.45 286 eP 37 15.90 -0.9
 0.8s 22.15nm 4.7mb
 MAF 22.68 285 eP 37 19.00 -0.1
 0.8s 11.40nm 4.4mb
 TCF 22.92 286 eP 37 21.40 0.0
 0.8s 22.15nm 4.7mb
 SOD 23.15 352 eP 37 23.00 -0.4
 i 37 30.10 25km
 CAF 23.24 282 eP 37 25.70 1.1
 1.3s 39.70nm 4.8mb
 LSF 23.39 286 eP 37 25.80 -0.2
 0.6s 18.95nm 4.8mb
 RJF 23.55 283 eP 37 27.50 -0.1
 0.8s 18.80nm 4.7mb
 Z 20s 0.40um 3.9MsZ

LPO 23.91 282 eP 37 30.80 -0.2
 0.6s 5.40nm 4.3mb
 LFF 24.16 283 eP 37 33.10 -0.4
 0.9s 32.75nm 4.9mb
 MFF 24.48 287 eP 37 35.90 -0.7
 0.7s 8.80nm 4.4mb
 LPF 24.91 291 eP 37 38.20 -2.5
 0.9s 34.40nm 5.0mb
 KEV 25.43 354 iP 37 46.00 0.6
 0.7s 13.30nm 4.7mb
 i 37 52.10 22km

DLE 28.19 303 eP 38 15.20 4.4X
 DMU 28.43 304 eP 38 16.50 3.6X
 BCAA 42.62 205 ePd 40 14.20 -0.2
 0.8s 7.00nm 4.4mb
 id 40 21.90 26km
 GKN 42.66 96 P 40 18.80 3.9X
 KKN 43.25 96 P 40 20.60 0.9
 0.8s 18.00nm 4.9mb

PKI 43.47 96 P 40 23.00 1.3
 GUN 43.60 95 P 40 26.60 3.9X

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_s). Each is a 25% trimmed mean of individual station values. Station magnitudes not used in the trimmed mean are marked with an X. This includes station magnitudes of either type which deviate significantly from the mean and surface-wave magnitudes determined from horizontal amplitudes. Body-wave magnitudes are computed according to the formula $\log(A/T) + Q$, derived by Gutenberg and Richter (1956), where A is the P-wave amplitude in micrometers, T is the period in seconds, and Q is the depth-distance factor. Surface-wave magnitudes are computed from the formula $\log(A/T) + 1.66 \log(\Delta) + 3.3$, where A is the maximum vertical surface-wave amplitude in micrometers, T is the period in seconds, and Δ is the epicentral distance in degrees. Surface-wave magnitudes are determined only for earthquakes whose focal depths (taking into account the computed standard deviations) are potentially less than 50 km, for stations having $20^\circ \leq \Delta \leq 160^\circ$, and for reported periods of $18 \leq T \leq 22$ s. No correction for focal depth is used in the M_s calculation. Body-wave magnitudes are not determined from PKP arrivals or for stations having $\Delta \leq 5^\circ$. Amplitude values stated in this report are in nanometers (nm) for body-waves and micrometers (μm) for surface-waves.

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

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

Hypocenter Symbols

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

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

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

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

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

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

References

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

16d 04h

LKO 49.46 238 P 41 06.40 -2.3
0.8s 7.00nm 4.8mb
TIC 51.43 235 P 41 22.90 -0.8
KIC 51.50 234 P 41 22.30 -1.9
LZH 51.75 74 eP 41 26.50 0.4
1.5s 36.00nm 5.1mb
LIC 51.77 234 P 41 25.20 -1.1
0.5s 5.50nm 4.7mb
TIY 56.66 68 eP 42 02.40 0.4
MBC 58.20 353 eP 42 11.50 -0.7
0.6s 2.00nm 4.3mb
CHTO 58.61 94 P 42 15.50 -0.3
GYA 59.25 82 P 42 23.00 2.6
BUL 64.79 187 iPd 42 56.00 -1.3
0.8s 3.73nm 4.6mb
YKA 70.40 346 eP 43 31.00 -0.8
0.6s 4.30nm 4.8mb
FBA 70.71 1 P 43 34.00 0.3
SES 80.77 339 eP 44 31.00 0.0
KVN 93.15 339 (P) 45 32.00 0.1

S.D. = 1.2 on 117 of 146 obs.

AUG 16, 1990 04h 41m 53.38 ± 1.42s
5.167 S ± 4.1km 130.423 E ± 6.6km
DEPTH = 63.6 ± 14.7 km
5.2mb (22 obs.)

BANDA SEA (280)

MTN 7.66 175 iPd 43 46.00 1.2
JAY 10.59 76 ePc 44 24.00 -1.0
KNA 10.64 189 eP 44 25.00 -0.6
0.2s 75.00nm 6.4mb X
WB5 15.12 166 eP 45 20.80 -4.0X
eS 46 16.00
WRA 15.17 166 Pd 45 23.00 -2.5
0.5s 17.30nm 4.5mb
PMG 17.12 185 iPc 45 51.20 1.2
1.2s 515.63nm 5.6mb
QIS 17.71 151 eP 45 57.00 -0.3
e 46 19.00
iS 48 59.20
ASPA 18.70 170 iPc 46 08.70 -0.7
0.6s 544.00nm 5.9mb
Z 27s 0.11um 4.0msz
eS 49 21.60
LR 52 31.20
iPcS 57 36.90
MBL 18.93 212 iPd 46 11.80 -0.3
0.4s 102.00nm 5.4mb
WARB 21.21 189 iPd 46 37.10 1.2
0.3s 23.00nm 5.0mb
eS 50 21.00
CTA 21.38 135 iPc 46 38.70 1.0
0.8s 36.57nm 4.8mb
i 47 43.70
iS 50 33.00
NANU 22.50 218 iPc 46 49.50 0.8
0.6s 74.00nm 5.3mb
BAG 23.55 336 eP 47 01.00 1.9
MEKA 24.16 207 eP 47 05.00 0.1
0.5s 30.00nm 5.0mb
OLP 25.05 150 eP 47 13.00 -0.3
e 51 50.00
FORR 25.64 185 iPc 47 18.60 -0.2
COOL 27.03 198 iPd 47 31.00 -0.6
0.5s 20.00nm 4.9mb
MRWA 27.54 208 eP 47 35.60 -0.7
0.4s 9.00nm 4.7mb
BAL 28.41 205 eP 47 43.50 -0.6
STK 28.56 160 iPd 47 45.30 -0.1
0.5s 31.00nm 5.2mb
ePcS 52 23.40
eS 53 17.40
KLB 28.85 203 iPd 47 47.70 -0.3
0.5s 38.00nm 5.3mb
NWA0 30.24 202 eP 48 00.10 -0.2
ADE 30.63 167 iPd 48 04.60 0.8
0.8s 59.70nm 5.4mb
BRS 30.69 139 iPc 48 01.00 -3.4X
i 48 31.00
RKG 31.34 202 eP 48 14.50 4.5X
BWA 33.55 152 eP 48 30.80 1.4
CAN 34.56 153 eP 48 38.80 0.8
TOO 35.06 159 iPc 48 44.00 1.7
0.6s 24.00nm 5.3mb
DZM 38.68 119 iPc 49 12.70 -0.3

GYA 38.96 325 iPd 49 16.40 1.1
CHG 39.11 308 iPd 49 17.90 1.4
0.9s 29.41nm 5.2mb
KMI 40.38 319 Pd 49 29.50 2.3
CHJJ 41.78 10 P 49 37.00 -1.2
MTMJ 42.10 9 P 49 40.70 -0.3
MAT 42.13 9 iPc 49 39.90 -1.2
KAKJ 42.16 12 P 49 40.50 -0.8
NIIJ 42.94 10 P 49 47.20 -0.5
XAN 43.97 334 Pc 49 56.50 0.3
CD2 44.01 326 eP 49 56.30 -0.2
TIY 45.83 340 eP 50 11.80 0.8
8JI 46.86 345 eP 50 18.50 -0.4
LZH 48.01 331 eP 50 28.50 0.3
1.4s 27.00nm 5.0mb
CN2 48.95 355 eP 50 34.80 -0.3
GTA 52.59 330 Pd 51 03.40 0.3
0.8s 9.00nm 4.9mb
GUN 54.09 310 P 51 14.00 -0.5
PKI 54.28 309 P 51 14.80 -1.1
0.8s 27.00nm 5.3mb
KKN 54.49 310 P 51 16.70 -0.6
DMN 54.53 309 P 51 17.20 -0.5
0.8s 47.00nm 5.6mb
GKN 55.09 309 P 51 21.00 -0.6
GBA 55.80 290 Pc 51 25.30 -1.4
0.9s 30.90nm 5.3mb
MAW 76.80 201 iPd 53 39.90 0.4
1.0s 30.00nm 5.2mb
SPA 84.87 180 iPd 54 20.10 -2.2
1.0s 15.50nm 5.0mb
CNCB 151.58 141 PKP 01 45.00 7.9X
LPB 151.71 140 PKP 01 44.00 6.9X
ZOB0 151.89 140 PKP 01 46.00 8.4X
CCH 152.26 144 PKP 01 44.80 7.1X

S.D. = 1.0 on 49 of 56 obs.

AUG 16, 1990 04h 59m 57.69 ± 0.08s
41.564 N ± 2.1km 88.770 E ± 1.6km
DEPTH = 0.0km (geophysicist)
6.2mb (134 obs.)

SOUTHERN XINJIANG, CHINA (321)

WMO 2.39 341 Pn 00 42.60 3.7X
GTA 8.69 101 iPc 02 07.00 -0.7
Z 15s 4.67um
PP 02 18.00
S 03 42.00
SS 03 59.00
KSH 9.97 262 iPd 02 25.00 -0.4
LSA 11.99 170 iPc 02 55.00 1.6
LZH 12.96 110 Pc 03 04.00 -2.0
1.0s 640.00nm 6.8mb
Z 14s 3.30um 3.3msz X
N 10s 4.70um
E 10s 3.40um
GUN 13.83 191 Pc 03 15.90 -1.8
GKN 13.95 195 Pc 03 16.60 -2.5
KKN 14.04 193 Pc 03 17.90 -2.4
PKI 14.23 192 Pc 03 20.90 -2.1
DMN 14.24 193 Pc 03 20.80 -2.3
NDI 15.93 220 iPc 03 40.00 -4.9X
0.6s 193.33nm 5.4mb
BTO 16.05 86 P 03 43.00 -3.5X
N 10s 1.50um
E 10s 4.00um
PP 03 50.00
CD2 16.08 127 eP 03 47.00 0.2
Z 12s 1.40um
HHC 17.16 85 eP 03 59.00 -1.6
Z 12s 2.50um
eS 07 07.00
XAN 17.58 109 iPc 04 04.50 -1.3
1.1s 500.00nm 5.6mb
N 13s 3.50um
E 14s 2.80um
TIY 18.61 94 Pc 04 16.40 -2.1
0.8s 400.00nm 5.7mb
Z 10s 3.80um 4.1msz
KMI 20.08 140 Pc 04 35.00 -0.9
0.5s 200.00nm 5.7mb
Z 16s 1.20um 4.3msz X
8JI 20.77 85 eP 04 43.50 0.8
1.0s 490.00nm 5.8mb
Z 16s 2.62um 4.7msz X
QUE 20.95 244 iPc 04 44.20 -0.6

GYA 21.08 130 iPc 08 29.40
1.4s 600.00nm 5.7mb
N 12s 0.80um
E 12s 0.90um
PcP 08 53.00
S 09 40.00
TIA 22.65 94 Pc 05 02.80 1.1
1.2s 200.00nm 5.5mb
Z 14s 1.70um 4.6msz X
N 10s 1.10um
eS 09 03.00
MAIO 23.31 267 iPc 05 09.50 1.2
1.0s 150.00nm 5.5mb
eS 09 22.00
WHN 23.34 110 iPc 05 10.00 1.6
1.0s 900.00nm 6.3mb
Z 12s 0.60um 4.3msz X
N 12s 2.00um
E 12s 1.30um
SP 05 17.00
CHG 24.28 156 ePc 05 18.60 0.9
1.0s 105.00nm 5.4mb
DL2 25.14 85 iPc 05 27.00 1.2
0.7s 500.00nm 6.4mb
Z 20s 0.90um 4.3msz
E 13s 1.20um
HYB 25.62 203 iPc 05 29.40 -1.1
0.6s 200.00nm 6.0mb
i 05 40.00
i 05 47.00
NJ2 25.78 102 Pc 05 32.50 0.6
1.0s 100.00nm 5.5mb
N 12s 1.30um
E 13s 1.00um
SNY 25.89 78 iPc 05 33.00 0.2
0.8s 500.00nm 6.3mb
Z 19s 2.90um 4.8msz
E 10s 2.40um
PP 05 37.40
PcP 09 01.80
S 10 06.00
POO 26.26 214 iPd 05 35.80 -0.7
0.7s 54.79nm 5.4mb
LOE 26.52 151 eP 05 38.00 -0.9
CN2 26.92 73 Pc 05 42.40 0.1
1.0s 200.00nm 5.8mb
Z 12s 2.00um 4.9msz X
N 10s 1.20um
E 10s 0.20um
PP 05 48.40
PcP 09 03.00
eS 10 18.00
GZH 27.61 124 Pd 05 49.40 0.7
NST 27.61 156 eP 05 50.00 1.3
SSE 27.98 101 iPc 05 52.00 0.0
1.0s 340.00nm 6.1mb
Z 20s 0.90um 4.4msz
N 11s 0.80um
E 11s 0.40um
QIZ 28.76 135 P 05 59.00 -0.1
0.6s 50.00nm 5.5mb
E 14s 1.40um
PcP 09 09.40
eS 10 48.00
PCT 28.94 154 eP 06 01.50 0.7
GBA 29.55 203 Pd 06 04.40 -1.9
0.8s 27.60nm 5.1mb X
MDJ 29.75 70 iPc 06 08.00 0.2
1.2s 100.00nm 5.5mb
Z 16s 1.30um 4.7msz X
E 10s 1.40um
PP 06 10.00
iPcP 09 10.50
eS 11 04.00
SS 11 11.00
NNT 30.41 158 eP 06 13.40 -0.6
TAB 32.55 278 eP+ 06 34.00 1.3
KER 33.38 271 iPc 06 41.70 1.7
SHNJ 33.98 89 eP 06 45.00 0.0
KUMJ 34.47 91 P 06 49.20 -0.1
BBU 34.98 256 eP 06 53.20 -0.5
0.4s 517.00nm 6.7mb
KAGJ 35.15 93 eP 06 54.50 -0.6
DHR 35.16 257 iPc 06 55.50 0.3
YONJ 35.30 85 P 06 55.20 -1.2
SNG 35.83 160 eP 07 01.50 0.6

[illegible]

ECH	55.63	307 P	09 36.97	-0.5	ANM	59.50	29 ePc	10 04.50	0.0	ECOG	68.02	301 eP	11 00.50	-0.6
MAO	55.71	299 P	09 37.50	-0.7	TCF	59.51	307 iPc	10 04.70	-0.2	ASMO	68.09	301 iPc	10 56.80	-4.7X
BBS	55.74	306 P	09 37.76	-0.6	LDF	59.74	310 iPc	10 05.60	-0.9	CRT	68.10	301 eP	10 57.20	-4.3X
MOF	55.80	306 P	09 38.22	-0.6		0.8s	220.35nm		6.3mb	APHE	68.29	301 iPc	10 58.50	-4.3X
SMY	55.82	47 eP	09 37.50	-1.2	FLN	59.86	310 iPc	10 06.30	-1.0	ACHM	68.30	301 iPc	10 58.20	-4.6X
GIB	55.86	293 P	09 37.60	-1.8		0.6s	225.45nm		6.5mb	EZAM	68.32	307 iPc	11 03.00	0.2
BSF	56.02	306 iPc	09 39.90	-0.5	LSF	59.94	307 iPc	10 06.90	-0.9	AAPN	68.36	301 iPc	10 58.30	-4.9X
	0.8s	136.40nm		6.0mb		0.8s	167.90nm		6.2mb	NANU	68.45	153 iPc	11 04.50	0.9
MMK	56.09	304 iPc	09 40.30	-0.9	GRR	60.27	310 iPc	10 09.10	-0.9		0.5s	26.00nm		5.7mb
UCC	56.14	310 P+	09 41.40	0.3		0.8s	482.75nm		6.7mb	ALOJ	68.47	301 iPc	10 58.90	-5.0X
HAU	56.21	307 iPc	09 41.20	-0.5	CAF	60.28	305 iPc	10 10.20	0.0	ATEJ	68.53	301 iPc	10 59.30	-5.0X
	0.9s	153.55nm		6.0mb		0.8s	167.90nm		6.2mb	MTE	68.67	305 iPc	11 04.50	-0.5
Z	20s	0.13um		4.0Msz	RJF	60.42	306 iPc	10 11.20	0.0	TAF	68.72	298 iPd	11 05.00	-0.4
LOMF	56.21	306 P	09 41.25	-0.5		0.8s	409.25nm		6.6mb	MBL	68.73	149 iPc	11 05.20	-0.1
ORO	56.28	304 P	09 40.30	-2.0	LPF	60.55	310 iPc	10 11.10	-0.9		0.5s	40.00nm		5.9mb
SNF	56.31	310 iPc	09 41.05	-1.2		0.6s	140.90nm		6.3mb	EHOR	68.78	302 iPc	11 05.50	-0.1
DOU	56.31	310 iPc	09 42.10	-0.3	DMU	60.74	318 iPc	10 12.70	-0.5	EMEL	68.79	299 eP	11 05.50	-0.2
	0.7s	132.20nm		6.1mb		0.6s	165.00nm		6.3mb	PTO	68.87	307 iPc	11 06.00	-0.1
		PcP	10 40.10		MFF	60.76	308 iPc	10 12.60	-0.8	MAL	68.89	301 iPc	11 05.00	-1.3
VITF	56.33	307 P	09 42.29	-0.2		0.8s	209.90nm		6.3mb	EPRU	69.28	301 iPc	11 08.20	-0.6
DIX	56.43	304 iPc	09 43.40	-0.2	DLE	60.87	317 iPc	10 13.30	-0.7	LWI	69.54	247 iPc	11 11.10	0.3
FAI	56.46	292 P	09 43.00	-0.6		0.8s	234.00nm		6.4mb	EJIF	69.74	301 iPc	11 10.60	-0.9
CKI	56.64	302 P	09 43.00	-1.8	LPO	60.94	305 iPc	10 14.80	0.1	EVAL	69.87	303 iPc	11 12.20	-0.1
EMS	56.73	304 ePc	09 45.30	-0.4		0.6s	310.00nm		6.6mb	MOMI	69.98	301 eP	11 13.00	0.0
CVT	56.87	293 P	09 44.70	-1.8	ETA	61.00	316 eP	10 14.30	-0.7	OJEN	70.00	301 eP	11 12.50	-0.7
PGF	57.06	300 iPc	09 47.80	-0.2		1.1s	435.00nm		6.5mb	PLAT	70.13	301 eP	11 13.00	-0.9
	0.6s	295.90nm		6.5mb	LFF	61.08	306 iPc	10 15.80	0.2	CNIL	70.17	301 eP	11 14.50	0.4
LPG	57.10	304 iPc	09 48.70	0.2		0.8s	661.10nm		6.8mb	NKM	70.31	300 iPc	11 13.50	-1.5
LPL	57.11	304 iPc	09 48.70	0.3	MBC	61.10	7 iPc	10 15.00	-0.3	LIS	70.68	305 iPc	11 17.50	0.3
DOI	57.26	303 P	09 46.90	-2.4		0.8s	329.00nm		6.5mb	HYT	71.22	22 Pc	11 20.20	-0.1
SAOF	57.31	302 P	09 49.61	0.0	ETER	61.13	302 iPc	10 15.10	-0.9	IFR	71.30	298 iPc	11 21.00	-0.3
BNI	57.36	304 P	09 49.70	-0.4	ECP	61.35	316 iPc	10 16.70	-0.6	BCAO	72.32	260 iPc	11 26.00	-1.4
AUTM	57.38	302 P	09 50.23	-0.2		0.7s	273.00nm		6.5mb		0.6s	288.00nm		6.6mb
SBF	57.44	302 iPc	09 50.40	-0.2	ECB	61.47	316 iPc	10 17.80	-0.4			id	12 52.20	
TOUF	57.49	302 P	09 50.80	-0.3		0.7s	279.00nm		6.5mb	AVE	72.94	299 iPc	11 30.50	-0.3
EDU	57.49	319 iPc	09 49.90	-0.8	EPF	62.32	304 iPc	10 23.20	-0.9	MEKA	73.22	152 eP	11 32.00	-0.3
AURF	57.50	302 P	09 50.80	-0.2		0.6s	239.55nm		6.6mb		0.4s	28.00nm		5.7mb
SURF	57.54	303 P	09 50.96	-0.5	ESEL	62.44	300 iPc	10 25.20	0.3	PMG	73.69	119 iPc	11 35.60	0.3
REVF	57.54	302 P	09 50.88	-0.4	IMA	62.49	24 iPc	10 24.60	-0.4		0.9s	210.00nm		6.2mb
ESY	57.58	318 iPc	09 50.20	-1.1		0.5s	161.20nm		6.5mb	WB5	74.29	136 iPc	11 38.80	0.1
	0.7s	140.00nm		6.1mb	BTH	62.61	304 iPc	10 26.20	0.2	TIO	74.32	297 iPc	11 39.50	0.5
MVIF	57.61	302 P	09 51.51	-0.3		e		10 51.50			i		11 41.00	
CALM	57.84	302 P	09 53.16	-0.3		e		10 53.00			i		12 09.50	
GRN	57.85	304 P	09 53.51	0.1		ePcP		11 04.50		WRA	74.33	136 Pc	11 38.80	-0.1
EBL	57.87	318 iPc	09 52.60	-0.7		e		11 33.00			0.7s	174.70nm		6.2mb
	0.6s	126.00nm		6.1mb		ePP		12 35.30		YKA	74.60	11 eP	11 39.40	-0.5
EDI	57.87	318 iPc	09 52.40	-0.9	OGE	62.75	305 P	10 26.03	-0.9		1.1s	152.70nm		5.9mb
LOR	58.04	307 iPc	09 53.50	-1.2	JAU	62.76	304 P	10 26.03	-1.1	MRWA	74.79	156 eP	11 47.40	6.0X
	0.6s	211.35nm		6.4mb	ESCF	62.86	305 P	10 26.53	-1.1	SIT	74.98	23 ePc	11 43.20	1.0
Z	20s	0.10um		3.9Msz	ATE	62.94	305 P	10 27.11	-1.0	WARB	75.98	145 iPc	11 48.80	0.5
FRF	58.09	302 iPc	09 54.50	-0.5	MADF	62.98	305 P	10 27.48	-0.9	BAL	76.30	155 iPc	11 49.50	-0.5
	0.6s	169.10nm		6.3mb	LHE	62.98	304 P	10 28.67	0.1	ASPA	77.20	138 iPc	11 55.30	0.2
LBF	58.10	307 iPc	09 54.10	-1.1	ISSF	63.03	305 P	10 28.52	-0.3		0.8s	130.00nm		6.1mb
	0.6s	98.65nm		6.0mb	ELYF	63.07	305 P	10 28.11	-1.0	Z	21s	0.11um		4.1MszX
EKA	58.13	318 Pc	09 54.00	-1.1	BOH	63.12	305 P	10 28.72	-0.7		LR	46 22.80		
	0.7s	139.40nm		6.1mb	NAI	63.41	242 iPc	10 33.00	1.2	MUN	77.43	156 iPc	11 56.30	0.1
ESK	58.16	318 iPc	09 54.50	-0.9	EROQ	63.47	302 iPc	10 31.20	-0.4		1.0s	180.00nm		6.2mb
	1.0s	240.00nm		6.2mb	TTA	63.80	27 iPc	10 33.70	0.1	KLB	77.55	155 iPc	11 56.80	-0.1
LMR	58.29	302 iPc	09 55.90	-0.5		0.9s	92.00nm		6.0mb	QIS	77.68	132 iPc	11 57.70	-0.1
	0.6s	176.15nm		6.3mb	ECRI	64.31	305 iPc	10 37.60	0.3	COOL	78.04	152 iPc	11 59.30	-0.3
LRG	58.32	302 iPc	09 56.30	-0.3	ETOR	65.03	303 eP	10 41.10	-0.9	NWAO	78.62	156 iPc	12 00.50	-2.2
	0.6s	183.20nm		6.3mb	ECHE	65.03	302 iPc	10 42.00	0.1	RKG	79.62	156 eP	12 10.30	2.2
Z	22s	0.13um		4.0Msz	FBA	65.07	23 iPc	10 41.50	-0.3	FORR	80.68	146 eP	12 14.00	0.2
GANF	58.34	303 P	09 56.49	-0.4	SVW	65.15	29 ePc	10 43.10	0.7	CTA	81.17	127 iPc	12 17.30	0.6
SMF	58.35	306 iPc	09 56.10	-0.7	ACU	65.28	300 iPc	10 43.30	-0.2		0.9s	163.87nm		6.1mb
	0.8s	650.65nm		6.7mb	INK	65.97	16 iPc	10 46.70	-0.7	SCH	81.74	346 ePc	12 18.30	-1.0
SSF	58.35	307 iPc	09 55.90	-0.9		0.6s	242.00nm		6.6mb		1.0s	228.00nm		6.2mb
	0.6s	126.80nm		6.2mb	GDH	66.05	346 iPd	10 46.80	-1.1	BUL	82.84	235 iPd	12 24.50	-1.1
TAVF	58.43	302 P	09 57.21	-0.3		0.7s	219.10nm		6.5mb		1.0s	105.00nm		6.0mb
VILF	58.54	303 P	09 57.97	-0.3		e		11 17.00		FFC	83.64	6 iPc	12 28.90	-0.2
AVF	58.57	307 iPc	09 57.60	-0.8		e		11 52.00			0.6s	295.00nm		6.7mb
	0.8s	230.85nm		6.3mb	GUD	66.44	304 iPc	10 50.90	-0.2	EDM	83.68	13 iPc	12 29.40	0.0
CDR	58.59	302 iPc	09 57.90	-0.7	EVIA	66.55	301 iPc	10 52.00	0.2		0.8s	274.00nm		6.5mb
	i		09 59.10		EMON	66.75	308 iPc	10 52.80	-0.1	QLP	85.02	132 iPc	12 37.90	1.6
	i		10 13.10		TOL	66.81	303 iPc	10 53.50	0.2	PGC	85.77	21 ePc	12 40.90	1.1
PUYF	58.70	302 P	09 59.22	-0.1		1.0s	660.00nm		6.8mb		0.7s	140.00nm		6.2mb
BERF	58.82	302 P	10 00.38	0.1	SDN	67.00	35 eP	10 52.60	-1.6	MCW	85.91	20 iPc	12 41.50	0.9
TREF	58.86	303 P	10 00.60	0.2	PMR	67.06	26 iPc	10 53.40	-1.0		iPKKP	30 40.50		
PRAF	58.91	303 P	10 00.64	-0.2		0.5s	100.40nm		6.3mb	PNT	86.12	18 iPc	12 42.50	0.9
GELF	58.95	302 P	10 01.03	-0.1	ERUA	67.25	307 iPc	10 56.20	0.2		0.6s	65.00nm		5.9mb
AGO	59.07	306 P	10 01.49	-0.4	ENIJ	67.33	300 iPc	10 55.80	-0.8	BFT	86.18	231 eP	12 44.00	1.6
AKU	59.24	333 iP	10 03.30	0.6	TOA	67.63	25 ePc	10 58.30	0.1		1.0s	560.00nm		6.7mb
	0.7s	52.05nm		5.8mb	EBAN	67.65	302 iPc	10 58.50	-0.1	JOZ	86.38	228 iPc	12 40.00	-3.0X
PYM	59.29	306 P	10 03.24	-0.2	STS	67.80	308 eP	10 59.40	0.0		1.0s	140.00nm		6.1mb
MAF	59.32	306 iPc	10 03.50	-0.1	KNA	67.96	138 eP	11 00.40	-0.2	SES	86.79	13 ePc	12 44.40	-0.5
	0.8s	293.85nm		6.5mb	EPLA	67.97	304 iPc	11 00.90	0.3		0.9s	175.00nm		6.3mb
LBL	59.40	305 P	10 03.88	-0.2	AFC	68.02	301 iPc	11 00.10	-1.1	LKO	86.98	280 Pc	12 44.78	-1.6

16d 05h

SLR	0.8s	148.50nm	6.3mb	CBN	99.61	349	eP	13	43.00	-1.3	RTLL	3.50	85	ePd	40	07.90	0.8
	07.25	232	iPc	12	47.20	-0.3						S.D. = 0.9	on	16	of	17	obs.
RMW	1.0s	230.00nm	6.4mb	GSC	99.99	21	eP	13	46.00	-0.3							
RMO	07.30	20	iP	12	48.30	0.8	SBB	100.28	22	ePdiff13	48.00						
	07.52	129	iPc	12	49.40	0.8	MWC	100.65	22	ePdiff13	50.00						
NEW	1.0s	324.00nm	6.6mb	FVM	100.83	359	ePdiff13	50.00	0.4								
	07.67	17	iPc	12	50.00	0.8		0.7s	40.82nm	6.1mb							
	1.0s	112.50nm	6.1mb	BLA	100.98	351	ePdiff13	50.00	-0.4								
DPW		iPKKP	30	35.30				1.0s	150.00nm	6.6mb							
STK	07.80	18	iP	12	50.30	0.4	TPC	101.32	21	ePdiff13	50.00						
	07.80	137	iPc	12	50.00	0.2	PLM	101.81	22	ePdiff13	57.00						
BMW	1.0s	52.00nm	5.8mb	ANMO	102.59	13	ePdiff13	59.00	1.2								
	07.83	21	iP	12	51.00	1.0			iPKKP	29	57.00						
LON	07.96	20	iPc	12	51.20	0.6	ALO	102.59	13	ePdiff13	58.00						
		iPKKP	30	34.80			TUL	102.79	4	ePdiff13	58.70						
KSR	08.17	233	iPc	12	51.00	-0.9		1.0s	15.00nm	5.7mb							
	1.2s	240.00nm	6.4mb	SIO	102.92	4	ePdiff13	59.30	0.3								
KIC	08.45	277	P	12	53.02	-0.4	RSCP	103.03	355	Pdiff	13	59.00					
	0.7s	168.00nm	6.4mb		0.6s	30.19nm	6.2mb										
TIC	08.47	277	P	12	53.02	-0.5	OCO	103.07	5	ePdiff14	60.00						
	0.9s	117.00nm	6.2mb	UYO	104.58	3	ePdiff14	60.00	0.6								
PRY	08.62	232	iPc	12	57.50	3.5X	MAW	110.60	190	iPKP	18	32.70					
	0.5s	33.00nm	5.9mb				LLAV	123.55	331	ePKP	18	58.00					
LIC	08.75	277	Pc	12	54.38	-0.4	CAR	123.56	331	iPKP	18	57.00					
	0.8s	118.00nm	6.2mb	GUAN	123.59	329	iPKP	18	58.00	-1.3							
Z	20s	0.06um	4.0msz				FISA	123.70	334	iPKP	18	58.50					
ADE	08.88	141	iPd	12	55.80	0.9	OLLA	123.97	331	iPKP	18	59.60					
	0.7s	119.18nm	6.2mb	PDCR	126.34	287	ePKP	19	63.30	-1.1							
VGB	09.37	20	iPc	12	58.50	1.1			e	19	13.10						
CBM	09.52	344	iPc	12	57.50	-0.5	SDV	126.35	334	ePKP	19	63.70					
SEK	09.58	231	eP	12	58.50	-0.1	SBA	127.80	165	e(PKP)	19	63.80					
	0.4s	7.00nm	5.2mb				SPA	131.37	180	ePKP	19	62.80					
BRS	09.57	127	iPd	13	04.00	1.0		1.0s	62.50nm								
		i	13	07.00			JFO	135.32	281	(PKP)	19	22.00					
LRM	09.96	15	iPc	13	05.00	-0.1	PPD	141.31	288	ePKP	19	26.80					
WIM	09.33	345	ePc	13	06.80	0.4			e	19	33.10						
EMM	09.49	343	ePc	13	07.40	0.3	SIV	143.61	305	PKPc	19	33.20					
WIN	09.95	241	iPc	13	11.00	1.3	CCH	147.70	311	PKP	19	43.80					
	0.6s	62.00nm	6.1mb					i	19	46.90							
FRS	09.98	231	iPd	13	10.00	0.6	PT08	147.83	332	iPKPc	19	44.80					
	0.8s	66.00nm	6.0mb	ZOBO	147.88	315	PKPc	19	45.00	0.7							
BNH	09.38	346	iPc	13	11.80	0.5	NNA	147.96	333	iPKP	19	43.50					
FHC	09.80	24	eP	13	15.00	1.7	LPB	148.09	315	PKPc	19	45.30					
HBVT	09.92	347	iPc	13	14.00	0.2		1.0s	90.00nm								
RSNY	09.97	348	iP	13	14.50	0.5	CNCB	148.25	314	iPKPc	19	46.00					
	1.0s	108.46nm	6.2mb	PT03	149.43	329	iPKP	19	46.90	0.8							
WNY	09.02	348	ePc	13	14.00	-0.3	ARE	149.76	320	iPKPc	19	48.00					
BWA	09.35	134	iPc	13	16.90	1.2	AIA	151.78	204	ePKP	19	55.70					
WDC	09.44	23	ePc	13	16.70	0.5		S.D. = 0.9	on	513	of	534	obs.				
MIN	09.93	23	eP	13	19.00	0.3											
TOD	09.45	138	iPd	13	21.20	1.5											
	1.0s	88.00nm	6.1mb														
CAN	09.34	135	iPc	13	20.80	0.6											
CNB	09.53	134	iPc	13	21.80	0.7											
ORV	09.69	23	eP	13	22.20	0.2											
DZM	09.64	114	iPc	13	25.20	-1.3											
BRK	09.02	24	eP	13	29.30	1.2											
BKS	09.02	24	eP	13	28.50	0.4											
	1.1s	56.00nm	6.0mb														
KVN	09.12	21	iPc	13	29.00	0.2	IHA	1.51	150	eP	39	43.00					
TBR	09.25	347	ePc	13	28.50	-0.6			i(S)	40	62.30						
DUG	09.29	16	ePc	13	29.60	0.0	ROCH	1.80	134	iPd	39	42.50					
		iPKKP	30	14.00					iS	40	62.90						
PCC	09.32	24	eP	13	30.20	0.7	JACH	1.91	121	iPd	39	43.10					
DAU	09.40	15	P	13	30.50	0.2			iS	40	63.60						
CMB	09.43	23	eP	13	30.70	0.6	LCCH	1.94	155	iPc	39	45.00					
PNJ	09.46	347	iP	13	30.10	0.0			i	40	16.90						
GMTN	09.49	347	iP	13	29.90	-0.3	PEL	2.12	133	iPd	39	47.00					
LVNJ	09.66	347	ePc	13	30.70	-0.3			i	40	69.60						
MHC	09.70	24	eP	13	32.40	1.0			iS	40	15.00						
GCC	09.87	24	eP	13	35.20	1.2	TACH	2.36	145	eP	39	51.00					
SAD	09.79	24	eP	13	34.80	0.9			iS	40	19.50						
LLA	09.58	24	eP	13	36.60	1.4	LNJ	2.43	157	iPc	39	51.50					
FRI	09.59	23	eP	13	36.00	0.8			i	40	18.00						
PRS	09.71	24	eP	13	36.70	0.9	FCH	2.49	131	iPd	39	52.70					
MSU	09.04	16	eP	13	38.30	0.7			iS	40	19.50						
		iPKKP	30	10.00			PCH	2.55	139	eP	39	54.60					
GLD	09.07	11	P	13	38.90	1.3			iS	40	23.00						
GOL	09.10	11	iPc	13	37.90	0.1	RTBS	2.63	90	ePd	39	55.30					
	0.8s	14.14nm	5.7mb				CHCH	2.72	145	iPd	39	56.00					
		iPKKP	30	09.70					iS	40	28.00						
PRI	09.10	24	eP	13	39.30	1.6	RTCS	3.06	61	ePc	40	60.50					
PV09	09.66	14	P	13	41.00	0.6			e(P)	40	62.50						
CLC	09.20	21	eP	13	44.00	1.0	ZON	3.30	88	eP	40	64.20					
							MDZ	3.34	111	eP	40	66.50					
									i	40	69.40						
									iS	40	46.30						
							RTCV	3.41	93	e(P)	40	64.60					

PMG 9.55 136 iS 54 46.70
 MTN 13.80 221 eP 56 57.00 -1.3
 QIS 17.95 183 iPc 57 54.50 -1.3
 eS 02 11.00
 WB5 18.25 199 iPd 58 53.00 3.9X
 eS 02 11.00
 WRA 18.32 199 Pd 58 54.50 1.6
 eS 02 09.50
 0.7s 37.50nm 4.7mb
 HNR 20.55 110 (P) 59 20.00 0.7
 ASPA 21.96 196 iPd 59 34.10 0.5
 0.8s 74.00nm 5.2mb
 Z 21s 0.46um 3.8msz

iS 03 36.30
 LR 08 04.80
 WARB 27.01 208 eP 00 20.00 -1.9
 BRS 27.40 156 iPc 00 30.00 4.5X
 STK 29.22 178 iPc 00 41.00 -0.9
 0.7s 5.00nm 4.4mb
 ADE 32.32 183 eP 01 10.00 0.7
 BWA 32.60 168 eP 01 13.00 2.1
 CAN 33.58 167 eP 01 21.50 1.2
 SSE 38.14 333 P 02 03.00 4.1X
 PSI 41.84 277 ePd 02 31.50 1.7
 CHG 46.00 299 eP 03 03.50 0.1
 LZH 51.40 322 eP 03 46.00 0.8
 1.6s 15.00nm 4.7mb
 PP 03 54.20
 GTA 55.97 322 eP 04 19.20 0.4
 0.8s 5.00nm 4.6mb
 GUN 60.52 304 P 04 51.20 0.0
 PKI 60.79 304 P 04 52.40 -0.6
 KKN 60.98 304 P 04 54.00 -0.1
 0.8s 35.00nm 5.5mb
 DMN 61.06 303 P 04 54.60 -0.1
 GKN 61.58 304 P 04 58.00 -0.2
 1.0s 48.00nm 5.6mb
 GBA 64.50 286 Pd 05 16.20 -1.2
 0.7s 6.40nm 4.9mb
 WMO 65.96 321 P 05 26.80 0.3
 KIC 145.10 277 PKPc 14 17.38 -0.8
 0.9s 62.00nm
 TIC 145.35 278 PKP 14 18.32 -0.3
 0.9s 42.50nm
 LIC 145.40 277 PKPc 14 18.42 -0.3
 1.0s 46.00nm
 LKO 145.54 283 PKPc 14 17.72 -1.3
 0.8s 13.50nm

CNCB 145.98 125 PKP 14 23.20 2.9X
 LPB 146.03 125 PKP 14 22.00 1.8
 ZOBO 146.15 124 PKP 14 24.00 3.4X
 1.1s 24.94nm
 CCH 147.15 128 PKP 14 25.80 4.0X
 SIV 151.87 132 PKP 14 35.40 6.6X
 S.D. = 1.1 on 28 of 35 obs.

* AUG 16, 1990 08h 13m 53.91 ± 0.56s
 24.668 N ± 6.4km 143.661 E ± 13.9km
 DEPTH = 33.0km (normal)
 4.4mb (6 obs.)
 VOLCANO ISLANDS REGION (213)

KAKJ 11.88 346 eP 16 45.20 1.2
 CHJJ 12.03 342 eP 16 44.30 -1.7
 TSRJ 12.70 330 eP 16 56.10 1.2
 MAT 12.73 340 (P) 16 55.00 -0.3
 eS 17 00.00
 MTMJ 12.90 338 P 16 57.20 -0.5
 NIJJ 13.15 343 P 17 00.00 0.0
 SSE 20.85 293 P 18 35.50 0.1
 WB5 45.19 192 eP 22 09.90 0.2
 e 22 27.60
 WRA 45.26 192 Pd 22 10.30 0.1
 0.6s 2.00nm 4.2mb
 ASPA 48.97 192 eP 22 38.80 -0.5
 0.6s 4.00nm 4.6mb
 MBC 67.88 15 eP 24 50.50 -0.3
 0.7s 2.00nm 4.3mb
 YKA 73.64 28 eP 25 30.50 4.9X
 0.7s 3.20nm 4.4mb

SUF 79.94 335 eP 26 07.00 6.2X
 KVN 80.86 51 P 26 06.50 0.0
 NAO 86.63 339 P 26 39.90 4.8X
 0.8s 2.10nm 4.4mb
 ALO 91.01 51 eP 26 57.00 0.4
 0.9s 2.10nm 4.5mb
 ZOBO 149.13 80 PKP 33 43.80 6.2X

CNCB 149.45 81 PKP 33 53.00 15.0X
 S.D. = 0.8 on 13 of 18 obs.

% AUG 16, 1990 08h 35m 31.25 ± 0.83s
 39.136 N ± 7.7km 27.622 E ± 8.2km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

IZM 0.79 201 ePg 35 46.60 0.0
 DST 0.91 59 iPn 35 48.40 -0.3
 EZN 1.22 305 ePn 35 53.90 0.0
 EDC 1.22 9 iPn 35 53.90 -0.1
 IZI 1.86 49 ePn 36 04.00 0.4
 S.D. = 0.4 on 5 of 5 obs.

% AUG 16, 1990 08h 45m 57.87 ± 0.68s
 26.869 S ± 6.5km 26.774 E ± 7.4km
 DEPTH = 5.0km (geophysicist)

REPUBLIC OF SOUTH AFRICA (584)
 ML 2.7 (PRE).

PRY 0.63 96 eP 46 11.00 0.5
 S 46 18.50

KSR 1.01 6 iPc 46 17.00 -0.5
 S 46 31.00

BPI 1.32 59 eP 46 22.50 -0.4
 S 46 38.60

SEK 1.63 153 eP 46 27.00 -0.5
 S 46 47.00

SLR 1.76 51 iPd 46 30.00 0.6
 EVA 2.09 81 eP 47 02.50 28.3X
 S 47 28.50

BLF 2.29 193 eP 46 36.70 -0.4
 S 47 06.00

KIM 2.58 223 eP 46 42.50 1.4
 FRS 3.14 204 eP 46 48.10 -0.8
 BFT 3.16 69 eP 46 49.50 0.0
 S 47 22.30

S.D. = 0.8 on 9 of 10 obs.

? AUG 16, 1990 08h 25m 02.23 ± 12.17s
 40.497 N ± 22.7km 31.018 E ± 75.6km
 DEPTH = 5.0km (geophysicist)

TURKEY (366)

GPA 0.58 249 iPg 25 13.40 -0.4
 eSg 25 21.00

EYL 0.66 276 iPg 25 15.60 0.2
 HRT 1.08 288 ePg 25 22.60 -0.4
 IZI 1.19 263 ePn 25 25.60 0.6

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

? AUG 16, 1990 10h 15m 03.22 ± 12.81s
 31.743 S ± 38.1km 67.779 W ± 99.2km
 DEPTH = 33.0km (normal)

SAN JUAN PROVINCE, ARGENTINA (137)

CFA 0.41 289 ePc 15 12.50 -0.1
 eS 15 20.20

RTCV 0.66 259 e(P) 15 15.80 -0.3
 RTLL 0.72 305 iPc 15 15.40 -1.6
 ZON 0.79 284 iPd 15 18.20 0.2
 eS 15 30.20

RTCB 0.91 286 iPd 15 20.50 0.8
 RTBS 1.43 273 eP 15 30.20 3.2X
 S 15 50.00

RTRS 2.13 317 iPc 15 37.90 0.7
 S.D. = 1.1 on 6 of 7 obs.

% AUG 16, 1990 10h 45m 57.56 ± 0.91s
 39.643 N ± 8.1km 29.413 E ± 8.2km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

DST 0.61 267 ePg 46 08.80 -1.1
 IZI 0.69 4 iPg 46 10.50 -0.9
 ALT 0.80 137 ePg 46 13.30 0.2
 eSg 46 24.80

KCT 1.01 307 iPn 46 17.10 0.4
 HRT 1.19 9 ePn 46 20.00 0.2
 BNT 1.35 302 iPn 46 23.60 1.2

S.D. = 1.1 on 6 of 6 obs.

AUG 16, 1990 10h 53m 58.41 ± 0.29s
 46.124 N ± 3.0km 12.342 E ± 2.7km
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)

MD 3.9 (LJU), 3.4 (TRI), ML 3.8
 (VIE), 3.7 (FUR), 3.7 (GRF), 3.5
 (LDG).

FVI 0.56 33 P 54 08.00 -1.7
 eSg 54 16.00

TRI 1.08 112 iPg 54 19.20 0.6
 iSg 54 34.50

VOY 1.08 94 iPg 54 19.00 0.1
 eSg 54 35.40

OGA 1.18 310 iPg 54 20.10 -0.4
 KBA 1.18 36 iPg 54 21.20 0.7
 ic 54 22.20

iSg 54 37.40
 WATA 1.32 337 iPg 54 23.20 0.3
 ic 54 24.10

i(Sg) 54 42.20
 SOTA 1.35 325 iPg 54 23.20 -0.1
 ic 54 24.00

iSg 54 41.30
 SAL 1.37 249 P 54 25.50 2.0
 eSn 54 45.50

CEY 1.50 104 iPnd 54 26.00 0.5
 iSg 54 47.50

LJU 1.53 92 iPnd 54 26.50 0.7
 eSn 54 47.00

OSS 1.62 291 ePd 54 27.80 0.5
 BHG 1.64 13 iPd 54 29.50 2.1
 MDI 1.87 260 P 54 31.50 0.8
 eSn 54 57.00

VDL 2.02 281 ePc 54 35.00 1.8
 VBY 2.13 106 ePnd 54 35.10 0.6
 iSn 55 06.80

FUR 2.17 341 ePn 54 36.80 1.7
 MME 2.25 212 P 54 38.00 1.5
 PGD 2.29 191 P 54 36.50 -0.5

SAX 2.35 300 ePc 54 39.90 2.0
 BDI 2.40 212 P 54 41.00 2.5
 TMA 2.41 271 ePd 54 40.10 1.4

LLS 2.43 289 ePd 54 41.10 2.1
 PTJ 2.53 94 ePn 54 40.00 -0.3
 eSn 55 11.20

ZAG 2.56 96 iPn 54 40.80 0.2
 iSn 55 11.00
 iSg 55 20.00

PII 2.73 209 P 54 43.00 0.0
 GRC1 2.93 349 iPnc 54 45.80 0.0
 ePg 54 52.80

e(Sn) 55 20.00
 eSg 55 30.70

ZLA 3.04 298 ePd 54 48.30 0.9
 WET 3.05 7 iPnd 54 47.50 0.0

MMK 3.05 270 ePc 54 48.50 0.8
 ORX 3.09 262 P 54 46.66 -1.5
 S 55 23.96

ORO 3.09 262 P 54 50.00 1.8
 SLE 3.11 303 ePc 54 48.80 0.4
 PCP 3.11 241 P 54 59.00 10.5X
 S 55 26.51

KHC 3.12 15 iPn 54 48.50 -0.1
 Pg 54 56.50
 Sn 55 27.50

Sg 55 38.10
 FEL 3.44 302 ePn 54 53.16 -0.1
 FIN 3.49 238 P 54 53.00 -0.9

ROB 3.65 242 P 54 55.66 -0.5
 LSD 3.69 261 P 54 55.66 -1.3
 MNS 3.75 176 P 54 57.00 -0.6

ZST 3.85 56 e(Pn) 55 11.30 12.3X
 i 55 25.80
 e 56 01.40

IMI 3.86 237 P 54 58.57 -0.5
 S 55 41.20

DOI 3.94 248 P 55 01.00 0.7
 LPG 3.96 263 Pn 55 01.60 0.8
 Sn 55 45.80

MOF 3.96 298 Pn 55 00.41 -0.2
 ENR 3.96 243 P 54 59.00 -1.6
 LPL 3.97 263 Pn 55 01.50 0.7
 Sn 55 46.00

LOMF 3.99 290 Pn 55 00.95 0.0
 STV 4.01 244 P 55 00.19 -1.1
 S 55 42.69

PZZ 4.04 248 P 55 00.51 -1.2
 S 55 45.67

RRL 4.09 255 P 55 01.32 -1.2
 ECH 4.11 302 Pn 55 02.31 -0.3

16d 10h

BNI 4.12 257 P 55 04.00 1.1
 PRU 4.14 20 eP 55 07.50 4.5X
 Pg 55 14.00
 Sn 55 50.00
 Sg 56 08.50
 CDF 4.14 305 Pn 55 02.99 -0.1
 SBF 4.15 239 Pn 55 02.00 -1.2
 Sn 55 50.00
 HVAR 4.15 134 iPnd 55 02.10 -1.1
 iSn 55 51.70
 BSF 4.17 296 Pn 55 03.40 -0.1
 Sn 55 50.00
 HOF 4.20 356 ePn 55 03.80 -0.2
 GWF 4.29 313 Pn 55 05.63 0.5
 HAU 4.51 297 Pn 55 08.00 -0.3
 Sn 55 58.70
 Sg 56 22.60

MOX 4.55 354 ePn 55 07.50 -1.4
 ePg 55 26.50
 eSn 55 56.00
 eSg 56 22.00
 FRF 4.79 240 Pn 55 11.20 -1.1
 Sn 56 05.90
 TNS 4.86 329 ePn 55 13.30 0.0
 eSn 56 08.40
 BRG 4.87 12 ePn 55 11.00 -2.4
 ePg 55 34.00
 eSn 56 04.00
 eSg 56 30.00

LMR 5.01 238 Pn 55 15.50 0.2
 Sn 56 11.00
 LRG 5.02 240 Pn 55 15.70 0.1
 Sn 56 12.00
 CLL 5.21 5 ePn 55 16.00 -2.2
 eSg 56 43.00

LBF 5.83 281 Pn 55 25.50 -1.5
 Sn 56 29.90
 SMF 5.91 278 Pn 55 26.60 -1.4
 Sn 56 34.00
 LOR 5.95 284 Pn 55 27.10 -1.5
 Sn 56 34.10
 SSF 6.16 282 Pn 55 29.60 -2.0
 Sn 56 38.40

AVF 6.25 279 Pn 55 31.90 -0.9
 DOU 6.53 310 iPc 55 38.20 1.3
 0.3s 11.20nm 5.3mb X
 iS 56 46.90

SNF 6.94 312 P 55 44.60 2.1
 TCF 7.03 275 Pn 55 43.00 -0.9
 Sn 56 59.00
 LSF 7.51 275 Pn 55 49.30 -1.2
 Sn 57 10.30
 S.D. = 1.2 on 73 of 76 obs.

? AUG 16, 1990 11h 06m 13.39±13.90s
 38.750 N ±10.7km 27.696 E ±35.4km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

DST 1.12 40 iPg 06 34.30 -0.1
 eSg 06 46.30
 KCT 1.58 19 iPn 06 42.10 0.6
 BNT 1.61 6 iPn 06 41.60 -0.4
 IZI 2.10 40 ePn 06 49.00 -0.1
 S.D. = 0.7 on 4 of 4 obs.

% AUG 16, 1990 11h 23m 29.38±2.80s
 39.163 N ±21.9km 27.653 E ±8.9km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

DST 0.88 59 ePn 23 46.30 0.1
 EDC 1.19 8 ePn 23 51.00 -0.6
 BNT 1.21 10 iPn 23 52.10 0.2
 EZN 1.22 303 ePn 23 52.00 -0.1
 KGT 1.31 348 iPn 23 54.10 0.4
 S.D. = 0.6 on 5 of 5 obs.

AUG 16, 1990 11h 57m 07.80±0.37s
 45.727 N ±7.7km 149.861 E ±6.0km
 DEPTH = 94.7km (3 depth phases)
 4.9mb (26 obs.)
 KURIL ISLANDS (221)

MAT 12.69 228 eP 00 02.00 -4.0X
 eS 02 18.00
 BJI 25.21 269 eP 02 26.00 0.0

1.2s 65.00nm 5.0mb
 HMC 28.11 274 Pd 02 52.80 0.2
 TIY 28.85 267 eP 02 59.60 0.3
 WHN 31.48 254 eP 03 22.50 0.1
 XAN 33.17 264 iPc 03 37.00 -0.2
 LZH 35.66 271 iPd 03 59.10 0.5
 1.0s 93.00nm 5.7mb
 GTA 36.89 278 Pd 04 09.20 0.3
 1.0s 20.00nm 5.0mb
 FBA 38.36 38 eP 04 21.80 1.1
 CD2 38.53 264 iPd 04 23.00 0.4
 GYA 39.28 256 iPd 04 29.00 0.0
 KMI 42.83 258 Pd 04 58.00 -0.2
 INK 43.72 32 eP 05 05.00 0.5
 MBC 46.32 19 eP 05 25.00 -0.2
 0.5s 2.00nm 4.2mb

GUN 52.83 274 P 06 16.00 -0.1
 KKN 53.32 274 P 06 19.60 0.1
 PKI 53.36 274 P 06 20.00 0.1
 DMN 53.55 274 P 06 21.60 0.4
 GKN 53.64 274 P 06 22.00 0.3
 NDI 58.37 280 iPd 06 55.00 -0.5
 0.6s 73.33nm 5.9mb X

LRM 63.60 51 eP 07 31.10 0.2
 e 07 55.00 95km
 KVN 64.64 59 P 07 37.40 -0.2
 pP 08 01.90 97km
 WB5 66.79 196 eP 07 49.90 -1.3
 WRA 66.86 196 P 07 52.00 0.4
 0.9s 2.40nm 4.1mb

GBA 68.13 267 Pc 07 58.80 -1.0
 0.5s 2.80nm 4.4mb
 HFS 68.60 338 eP 07 59.60 -2.4
 0.4s 1.80nm 4.3mb
 NAO 68.72 340 P 08 00.60 -2.2
 0.7s 1.60nm 4.0mb

ALQ 74.29 56 eP 08 36.80 0.2
 e 09 01.00 93km
 PRU 77.08 332 eP 08 50.50 -1.3
 e 08 52.00 5kmX
 KHC 78.14 332 eP 08 58.20 0.5
 CDF 80.71 336 eP 09 11.20 -0.4
 0.8s 10.75nm 4.7mb

SKO 81.32 324 iP 09 15.50 0.7
 HRI 81.38 309 eP 09 16.20 0.8
 OHR 82.30 324 eP 09 19.70 -0.3
 FLN 82.40 341 eP 09 20.00 -0.3
 1.0s 20.00nm 5.0mb

LDF 82.47 340 eP 09 20.40 -0.3
 0.8s 8.05nm 4.7mb
 LOR 82.70 337 eP 09 21.40 -0.5
 0.6s 8.55nm 4.8mb
 GRR 82.84 341 eP 09 22.40 -0.2
 0.9s 32.75nm 5.2mb

DSI 82.87 308 eP 09 23.90 0.9
 LBF 82.93 337 eP 09 22.70 -0.4
 0.6s 5.40nm 4.6mb
 SSF 82.98 338 eP 09 23.40 0.0
 0.7s 9.35nm 4.8mb

LPF 83.21 341 eP 09 24.60 0.1
 0.8s 21.50nm 5.1mb
 AVF 83.27 338 eP 09 24.80 0.0
 0.8s 13.45nm 4.9mb
 SMF 83.28 337 eP 09 24.90 0.0
 0.7s 18.20nm 5.1mb

PGD 83.36 331 P 09 26.50 0.9
 MME 83.42 332 P 09 26.90 0.9
 LPL 83.48 335 eP 09 26.60 0.4
 0.6s 9.45nm 4.9mb
 LPG 83.50 335 eP 09 26.90 0.5
 0.6s 5.40nm 4.7mb

BDI 83.57 332 P 09 26.50 0.0
 BGF 83.62 338 eP 09 27.20 0.6
 0.6s 8.55nm 4.9mb
 BNI 83.92 335 P 09 29.00 0.7
 MAF 84.01 338 eP 09 29.20 0.6
 0.6s 16.25nm 5.2mb

PRNI 84.02 308 eP 09 30.00 1.0
 TCF 84.04 338 eP 09 29.00 0.2
 0.8s 6.70nm 4.6mb
 LSF 84.25 339 eP 09 30.10 0.3
 1.0s 32.00nm 5.2mb

MNS 84.34 330 P 09 30.00 -0.3
 MFF 84.34 340 eP 09 30.40 0.2
 0.7s 17.65nm 5.1mb
 SBF 84.77 334 eP 09 32.20 -0.3
 0.6s 10.80nm 5.0mb

ORI 84.95 326 P 09 34.00 0.6
 SGO 84.96 327 P 09 33.00 -0.4
 MGR 85.23 327 P 09 33.50 -1.3
 TDS 85.34 326 P 09 35.00 -0.3
 SOI 86.82 325 P 09 42.50 -0.1
 S.D. = 0.7 on 62 of 63 obs.

AUG 16, 1990 11h 57m 45.65±1.00s
 36.250 N ±6.6km 2.734 W ±10.0km
 DEPTH = 10.0km (geophysicist)
 STRAIT OF GIBRALTAR (385)
 mbLg 3.2 (MDD).

ENIJ 0.83 30 iPg 58 02.40 0.7
 eSg 58 14.40
 EMEL 0.97 191 ePg 58 04.40 0.4
 eSg 58 18.40
 ECOG 1.22 327 ePg 58 07.00 -1.5
 eSg 58 22.40

MAL 1.43 290 iPnc 58 11.00 -0.6
 iSg 58 21.50
 TAF 1.46 170 eP 58 16.00 3.9X
 i 58 20.00
 EBAN 2.09 337 ePn 58 21.20 0.1
 eSn 58 45.00

EPRU 2.13 290 ePn 58 21.80 0.0
 OJEN 2.27 267 eP 58 25.00 1.1
 NKM 2.32 251 eP 58 24.00 -0.4
 i 58 26.00
 EVIA 2.39 4 ePg 58 30.40 4.8X
 eSg 58 59.80

MOMI 2.41 273 eP 58 30.00 4.2X
 PLAT 2.45 268 eP 58 29.00 2.7
 EHOR 2.55 309 ePn 58 26.80 -0.9
 eSn 58 57.00

IFR 3.36 216 eP 58 37.50 -1.9
 i 59 16.20
 i 59 20.00
 TOL 3.77 344 ePn 58 48.50 3.4X
 ePg 59 03.00
 iSg 59 45.00

GUD 4.53 346 ePg 58 57.30 1.4
 eSg 59 48.00
 ETOR 4.59 6 ePn 58 56.00 -0.8
 MTE 5.61 319 e(P) 59 11.00 -0.2
 i 00 39.50
 S.D. = 1.3 on 14 of 18 obs.

& AUG 16, 1990 12h 24m 58.83s
 65.727 N 148.030 W
 DEPTH = 26.8km
 ALASKA (676)
 <AGS-P>.

GLM 0.79 160 eP 25 13.24 -0.7
 eS 25 23.91
 FBA 0.84 173 eP 25 14.22 -0.4
 eS 25 24.15
 CCB 1.09 175 eP 25 18.13 -0.2
 eS 25 31.84

WRH 1.26 181 eP 25 20.77 0.0
 eS 25 36.52
 HDA 1.40 161 eP 25 22.93 0.1
 FYU 1.41 52 eP 25 22.42 -0.5
 eS 25 42.92

DMW 1.94 149 eP 25 33.77 3.1
 DDM 2.16 154 eP 25 38.65 4.9
 8 obs. associated

% AUG 16, 1990 12h 31m 06.83±1.33s
 40.309 N ±11.7km 15.268 E ±14.7km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN ITALY (390)

SGO 0.25 7 Pc 31 12.00 -0.2
 eSg 31 17.50
 MGR 0.28 128 P 31 13.00 0.3
 eSg 31 18.50
 BSS 0.60 324 P 31 19.00 0.1
 ORI 0.94 105 P 31 25.00 0.3
 eSg 31 38.00
 TDS 1.05 128 P 31 26.00 -0.6
 S.D. = 0.5 on 5 of 5 obs.

% AUG 16, 1990 12h 52m 24.74±0.85s
 0.029 S ±7.0km 78.441 W ±11.6km
 DEPTH = 10.0km (geophysicist)

ECUADOR (107)				
YANA	0.16	237	iPd	52 28.80 0.2
			iS	52 30.80
OUR	0.17	212	iPd	52 28.60 -0.2
			iS	52 31.50
OTO	0.19	208	iPd	52 29.10 -0.1
			eS	52 32.60
GGP	0.21	227	iPd	52 29.70 0.0
			S	52 32.80
COTA	0.38	16	P	52 32.60 0.0
			S	52 37.80
VC1	0.61	176	eP	52 37.50 0.2

S.D. = 0.2 on 6 of 6 obs.

% AUG 16, 1990 13h 00m 24.14 ± 0.75s
 26.769 S ± 7.7km 26.632 E ± 8.4km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 3.3 (PRE).

PRY	0.77	102	iPd	00 39.00 -0.7
KSR	0.93	15	iPc	00 42.00 -0.5
BPI	1.39	65	eP	00 51.00 0.7
			S	01 06.60
SEK	1.78	151	iP	00 54.50 -1.5
			S	01 13.00
SLR	1.80	56	iPd	00 58.60 2.3
			S	01 21.90
EVA	2.20	84	iPc	01 31.50 29.4X
			S	01 57.00
BLF	2.36	189	eP	01 04.30 -0.1
KIM	2.57	219	iPc	01 09.60 2.4
			S	01 39.80
FRS	3.19	201	iPd	01 15.50 -0.3
			S	01 50.00
BFT	3.25	71	iPc	01 16.00 -1.0
HVD	3.95	194	eP	01 27.00 0.1
WIN	9.62	294	eP	02 45.00 -1.6

S.D. = 1.5 on 11 of 12 obs.

AUG 16, 1990 13h 37m 51.19 ± 1.02s
 43.393 N ± 5.6km 5.418 E ± 7.3km
 DEPTH = 10.0km (geophysicist)
 NEAR SOUTH COAST OF FRANCE (379)
 MD 3.0 (STR).

GELF	0.01	144	Pg	37 52.68 -0.4
BERF	0.21	112	Pg	37 56.18 0.3
TREF	0.23	354	Pg	37 55.74 -0.4
PUYF	0.25	56	Pg	37 55.60 -0.9
CDR	0.38	42	ePg	37 57.70 -1.3
			iSg	38 30.00
PRAF	0.45	336	Pg	38 00.84 0.5
VILF	0.51	25	Pg	38 00.85 -0.6
TAVF	0.52	64	Pg	38 01.24 -0.4
GANF	0.70	30	Pg	38 05.57 0.5
CALN	1.13	71	Pg	38 13.01 0.6
			Sg	38 28.06
MVIF	1.36	68	Pn	38 16.65 0.4
			Sg	38 35.78
REVF	1.46	76	Pn	38 17.50 -0.1
TOUF	1.47	64	Pn	38 18.23 0.4
AURF	1.47	70	Pn	38 17.90 0.1
AUTN	1.58	67	Pn	38 19.77 0.3
			Sg	38 41.72
SAOF	1.66	68	Pn	38 20.63 0.1
DOI	1.72	49	P	38 23.50 2.0
			eSn	38 45.00
BNI	1.89	28	P	38 28.00 4.1X
			eSn	38 51.00
PGF	2.76	107	Pn	38 35.41 -1.0

S.D. = 0.8 on 18 of 19 obs.

AUG 16, 1990 14h 26m 11.62 ± 1.37s
 4.289 N ± 6.8km 95.448 E ± 8.5km
 DEPTH = 86.6 ± 12.4 km
 4.9mb (26 obs.)
 NORTHERN SUMATERA (706)

PSI	3.81	114	ePc	27 10.60 1.4
IPM	5.57	87	ePc	27 32.10 -1.6
	0.7s	56.10nm		4.9mb
			e	28 31.10
SNG	5.89	61	eP	27 38.20 0.1
	0.8s	122.39nm		5.2mb
KLM	6.30	101	eP	27 48.00 4.3X

KGM	8.18	106	eP	28 10.00 0.4
CHG	14.84	13	eP	29 42.00 3.8X
QIZ	20.30	43	eP	30 48.30 5.3X
GYA	24.52	25	P	31 26.20 1.6
PKI	25.05	339	P	31 29.90 0.1
	0.6s	14.00nm		4.6mb
GUN	25.20	340	P	31 31.00 0.6
	0.6s	47.00nm		5.1mb
DMN	25.20	338	P	31 31.60 0.5
KKN	25.30	339	P	31 31.60 -0.4
	0.8s	36.00nm		4.9mb
GKN	25.73	338	P	31 35.70 -0.2
CD2	27.61	16	eP	31 51.60 -1.3
XAN	32.15	21	iPc	32 32.10 -1.0
GTA	35.18	6	eP	32 58.00 -1.3
TIY	36.71	23	eP	33 13.40 1.2
	2 14s	0.50um		4.5MsZ
QUE	37.25	317	eP	33 17.70 0.8
HMC	39.18	19	eP	33 34.00 1.2
WMO	39.96	351	eP	33 36.00 -2.4
BJI	40.21	25	eP	33 43.00 1.8
	0.8s	15.00nm		4.9mb
WB5	45.16	124	iPd	34 21.30 -0.4
WRA	45.17	124	Pd	34 21.40 -0.4
	0.8s	31.50nm		5.2mb
ASPA	46.65	128	iPd	34 32.70 -0.8
	0.8s	22.00nm		5.1mb
	2 18s	0.15um		4.0MsZ
FORR	46.83	140	eP	34 34.10 -0.5
	0.5s	14.00nm		5.1mb
CN2	47.42	29	eP	34 38.80 -0.4
OIS	49.87	121	iPd	34 58.10 -0.3
MAT	50.68	45	eP	35 08.00 3.6X
VR1	72.18	317	ePd	37 29.00 -0.1
MLR	72.64	316	ePd	37 31.50 -0.4
BCAO	76.65	274	iPd	37 54.60 -0.8
	0.6s	9.00nm		4.8mb
SUF	76.80	334	eP	37 55.00 -0.2
NUR	76.89	331	eP	37 54.00 -1.7
SOD	78.00	338	iP	38 02.00 0.3
SRO	78.20	318	iP	38 03.30 0.1
KEV	78.63	341	eP	38 03.00 -2.1
TDS	78.89	309	P	38 08.00 0.8
ZST	79.05	318	e(P)	38 08.50 0.7
			e	00 42.90
PTJ	79.62	316	eP	38 10.80 -0.3
PRU	80.88	320	P	38 18.00 0.4
BRG	81.32	321	iP	38 20.20 0.4
	0.8s	12.00nm		4.8mb
KHC	81.45	319	eP	38 21.20 0.6
MNS	81.78	312	P	38 21.50 -1.0
FVI	81.86	316	P	38 23.00 0.3
CLL	81.94	321	eP	38 23.00 -0.1
HFS	82.19	330	eP	38 23.40 -0.7
	0.4s	1.10nm		4.1mb
PGD	82.52	314	P	38 26.50 0.0
BDI	83.34	314	P	38 29.50 -1.0
NAO	83.65	331	P	38 31.40 -0.2
	0.8s	2.90nm		4.3mb
SBF	85.62	314	eP	38 42.10 0.1
	0.8s	17.45nm		5.1mb
LPG	86.06	315	eP	38 44.60 0.2
	0.8s	7.40nm		4.8mb
LPL	86.07	315	eP	38 44.50 0.1
	0.8s	9.40nm		4.9mb
HAU	86.24	318	eP	38 44.80 -0.1
	0.8s	10.75nm		4.9mb
LBF	87.90	317	eP	38 53.00 0.0
	0.8s	6.70nm		4.8mb
LOR	87.96	317	eP	38 53.30 0.1
	0.8s	7.40nm		4.8mb
SMF	88.02	316	eP	38 53.50 0.0
	0.8s	10.05nm		5.0mb
SSF	88.22	317	eP	38 55.00 0.6
	0.8s	4.05nm		4.6mb
AVF	88.34	317	eP	38 55.10 0.1
	1.0s	8.00nm		4.8mb
LDF	90.50	319	eP	39 05.50 0.4
	0.8s	9.40nm		5.1mb
FLN	90.71	319	eP	39 06.60 0.6
	0.8s	14.80nm		5.3mb
GRR	91.01	318	eP	39 07.90 0.5
	1.0s	12.00nm		5.1mb
LPF	91.18	318	eP	39 09.10 0.9
	0.6s	5.40nm		5.0mb
KVN	126.91	33	PKP	45 09.40 1.7

ALO 135.87 26 ePKP 45 26.00 1.2
 S.D. = 0.9 on 60 of 64 obs.

% AUG 16, 1990 15h 25m 44.62 ± 0.56s
 40.565 N ± 5.8km 28.239 E ± 4.6km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

BNT	0.32	229	iPg	25 50.90 -0.4
KCT	0.33	164	iPg	25 50.90 -0.5
EDC	0.36	233	iPg	25 51.10 -0.9
			iSg	25 56.10
CTT	0.60	14	iPg	25 56.40 -0.3
			eSg	26 03.90
KGT	0.72	261	iPg	25 58.90 0.1
ISK	0.80	51	iPg	25 59.90 -0.2
			iSg	26 11.90
IZI	0.97	103	ePn	26 02.40 -0.7
DST	1.00	163	iPn	26 03.20 -0.5
HRT	1.12	76	ePn	26 04.90 -0.7
EYL	1.46	89	iPn	26 11.40 0.3
GPA	1.60	99	ePn	26 13.00 -0.1
ALN	1.70	282	ePd	26 15.60 1.2
ALT	2.09	136	ePn	26 23.00 2.8

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

* AUG 16, 1990 15h 38m 08.36 ± 1.03s
 38.598 N ± 7.3km 20.539 E ± 10.6km
 DEPTH = 10.0km (geophysicist)

GREECE (364)

MD 3.1 (ATH).

VLS	0.42	175	ePg	38 17.20 0.2
EVR	1.04	72	ePb	38 20.00 -0.1
KEK	1.25	333	ePg	38 31.00 -0.6
AGG	1.46	73	eP	38 34.10 -0.7
ITM	1.79	142	ePg	38 43.00 3.4X
KZN	1.95	29	ePn	38 44.00 2.0
LIT	2.13	45	eP	38 43.60 -0.9
QHR	2.52	4	ePn	38 50.00 0.0
VLI	2.67	134	ePg	38 59.50 7.3X

S.D. = 1.2 on 7 of 9 obs.

AUG 16, 1990 16h 07m 42.31 ± 0.63s
 24.186 N ± 4.8km 121.706 E ± 8.8km
 DEPTH = 10.0km (geophysicist)
 4.5mb (1 obs.)

TAIWAN (244)

TWD	0.15	224	iPd	07 45.00 -0.7
			eS	07 47.40
TWC	0.44	17	iPd	07 50.30 -1.0
			eS	07 56.40
TWO	0.80	277	ePc	07 58.10 0.2
			eS	08 09.50
TWF1	0.91	204	ePc	07 59.10 -0.6
TW2	0.91	353	iPd	08 00.00 0.2
ANP	1.01	350	eP	08 02.00 0.5
TWK	1.44	231	ePd	08 08.00 0.3
SSE	6.90	356	eP	09 20.50 -5.4X
WB5	45.50	163	eP	16 04.50 0.7
WRA	45.56	163	Pc	16 04.70 0.5
	0.3s	1.70nm		4.5mb
WARB	50.30	174	eP	16 53.70 12.6X

S.D. = 0.7 on 9 of 11 obs.

AUG 16, 1990 16h 15m 37.43 ± 0.46s
 37.026 N ± 5.5km 29.567 E ± 7.1km
 DEPTH = 14.2 ± 4.6 km

TURKEY (366)

MD 3.9 (ATH).

ELL	0.39	135	iPg	15 45.80 0.1
			iSg	15 54.30
KSL	0.91	179	ePg	15 55.00 0.6
KHL	1.29	358	iPn	16 01.40 0.4
CIN	1.31	296	eP	16 00.50 -0.7
ALT	2.07	12	ePn	16 13.70 1.5
SMG	2.28	288	ePn	16 15.70 0.6
IZM	2.28	308	iPn	16 15.60 0.3
KAP	2.43	233	ePn	16 19.50 2.2
DST	2.68	344	ePn	16 21.20 0.3
PPCY	3.11	133	e(P)	16 30.50 3.7X
IZI	3.31	359	ePn	16 29.00 -0.8
GPA	3.31	10	ePn	16 32.00 2.2
EYL	3.56	7	ePn	16 34.00 0.5
BNT	3.57	339	ePn	16 33.00 -0.4

16d 16h

NPS 3.65 242 ePn 16 35.50 0.8
 CSS 3.68 123 e(P) 16 37.00 1.9
 BBTk 3.77 41 eP 16 40.00 3.6X
 EZN 3.78 319 ePn 16 36.30 -0.1
 HRI 6.29 125 e(P) 17 08.00 -4.1X
 JVI 6.97 135 e(P) 17 21.00 -0.5
 DSI 7.26 137 e(P) 17 25.10 -0.5
 GKN 46.75 84 P 24 07.20 -0.9
 DMN 47.29 85 P 24 11.40 -1.2
 KKN 47.35 84 P 24 11.60 -1.4
 S.D. = 1.2 on 21 of 24 obs.

AUG 16, 1990 16h 45m 33.24 ± 0.9Bs
 47.673 N ± 7.2km 7.473 E ± 5.7km
 DEPTH = 5.0km (geophysicist)
 SWITZERLAND (544)
 ML 1.8 (LDG).

MOF 0.29 308 Pg 45 39.41 0.3
 Sg 45 43.53
 FEL 0.42 61 Pg 45 41.78 0.1
 Sg 45 47.65
 BSF 0.49 289 Pg 45 43.40 0.4
 Sg 45 49.40
 LOMF 0.54 234 Pg 45 44.02 -0.1
 Sg 45 51.64
 ECH 0.58 339 Pg 45 44.74 -0.2
 CDF 0.75 350 Pg 45 48.21 -0.2
 HAU 0.83 294 Pg 45 49.40 -0.4
 Sg 46 00.50
 S.D. = 0.3 on 7 of 7 obs.

? AUG 16, 1990 17h 02m 49.31 ± 12.8Bs
 31.347 S ± 21.6km 71.904 W ± 110.0km
 DEPTH = 80.0km (geophysicist)
 NEAR COAST OF CENTRAL CHILE (135)

RTBS 2.12 99 e(P) 03 22.50 -0.8
 S 03 51.10
 RTRS 2.41 61 ePc 03 27.40 0.1
 RTLL 2.94 91 ePd 03 34.00 -0.7
 MDZ 3.01 121 eP 03 35.80 0.0
 IS 04 15.60
 CFA 3.14 96 ePd 03 39.00 1.4
 S.D. = 1.3 on 5 of 5 obs.

% AUG 16, 1990 17h 20m 15.76 ± 0.73s
 26.359 S ± 6.6km 27.493 E ± 7.2km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 2.4 (PRE).

BPI 0.52 69 eP 20 26.00 -0.1
 S 20 34.00
 PRY 0.57 182 eP 20 26.00 -1.1
 S 20 32.00
 KSR 0.73 312 eP 20 29.50 -0.8
 SLR 0.94 49 eP 20 34.00 -0.3
 S 20 51.50
 EVA 1.43 96 eP 21 11.50 29.0X
 S 21 29.50
 SEK 1.96 177 eP 20 49.00 -1.1
 S 21 11.00
 BFT 2.39 74 eP 20 57.50 1.1
 S 21 29.00
 BLF 2.97 203 eP 21 05.50 0.9
 KIM 3.39 225 eP 21 12.10 1.6
 S.D. = 1.2 on 8 of 9 obs.

? AUG 16, 1990 17h 38m 17.85 ± 11.71s
 7.474 S ± 104.0km 128.600 E ± 24.0km
 DEPTH = 162.6 ± 45.3 km
 4.3mb (1 obs.)
 BANDA SEA (280)

MTN 5.89 155 iPd 39 45.10 1.0
 KNA 8.23 179 eP 40 14.50 -0.8
 eS 41 39.00
 WBS 13.54 156 eP 41 23.80 -0.8
 eS 43 47.50
 WRA 13.59 156 Pd 41 23.70 -1.5
 0.2s 0.80nm 3.8mb X
 MBL 16.03 211 eP 41 56.00 0.4
 eS 44 39.00
 ASPA 16.89 163 iPc 42 07.80 1.6
 0.6s 9.00nm 4.3mb
 Z 23s 0.08um 3.5MsZx

eS 45 06.20
 LR 52 18.00
 WARB 18.70 185 eP 42 27.00 0.6
 NANU 19.58 219 eP 42 35.00 -0.5
 S.D. = 1.4 on 8 of 8 obs.

AUG 16, 1990 17h 57m 58.21 ± 0.60s
 5.627 S ± 4.1km 147.505 E ± 5.1km
 DEPTH = 175.9 ± 6.5 km
 5.1mb (18 obs.)

EAST PAPUA NEW GUINEA REGION (207)

PMG 3.77 185 iPd 58 55.00 -1.9
 eS 59 38.00
 MNDI 3.86 262 eP 59 00.00 1.7
 eS 00 46.00
 RAB 4.86 73 iPd 59 11.00 0.0
 0.9s 873.95nm
 JAY 7.45 294 ePc 59 44.80 -0.5
 HNR 12.90 108 ePd 00 56.00 -0.3
 eS 03 30.00
 CTA 14.43 185 iPd 01 16.20 0.6
 1.3s 76.92nm 4.9mb
 QIS 16.71 207 iPd 01 43.00 -0.7
 0.9s 118.00nm 5.3mb
 MTN 17.67 245 iPc 01 54.00 -1.0
 WBS 19.08 221 iPd 02 09.30 -0.4
 eS 05 35.00
 WRA 19.14 221 Pd 02 09.80 -0.6
 0.9s 278.40nm 5.7mb
 RMO 20.78 177 eP 02 27.80 0.9
 KNA 20.96 240 eP 02 28.30 -0.4
 0.3s 58.00nm 5.5mb
 QLP 21.07 188 iPd 02 31.10 1.3
 ASPA 22.21 215 iPd 02 42.60 1.6
 0.4s 268.00nm 6.1mb X
 Z 22s 0.48um 3.9MsZx

IS 06 30.40
 i 08 55.00
 iScS 13 39.50
 LR 30 08.20
 DZM 24.55 134 iPd 03 04.60 1.1
 STK 26.70 191 eP 03 22.30 -0.6
 1.5s 12.00nm 4.4mb

WARB 28.55 222 eP 03 40.20 0.5
 0.3s 6.00nm 4.8mb
 BWA 28.67 178 eP 03 40.80 0.1
 CAN 29.58 178 eP 03 48.80 0.1
 MEKA 34.62 230 iPd 04 32.60 0.0
 0.5s 30.00nm 5.2mb
 NANU 35.16 238 eP 04 37.00 -0.1
 MRWA 37.90 228 eP 05 00.40 0.3
 0.3s 5.00nm 4.7mb

QZH 41.41 318 iPc 05 29.70 0.8
 0.7s 100.00nm 5.5mb
 MAT 42.84 349 iPd 05 40.70 0.2
 SSE 44.34 327 Pc 05 52.60 0.1
 1.5s 79.00nm 5.1mb
 NJ2 46.35 326 Pd 06 09.00 0.6
 WHN 47.96 321 Pc 06 22.50 1.5
 0.1s 30.00nm 5.8mb

GYA 50.82 311 P 06 44.00 0.9
 XAN 53.72 320 Pd 07 03.70 -0.7
 BJI 53.83 330 eP 07 04.50 -0.4
 1.0s 11.00nm 4.5mb
 TIY 54.08 326 Pc 07 06.80 -0.2
 CD2 55.38 314 eP 07 16.20 -0.3
 BTO 57.44 327 eP 07 30.70 -0.2
 LZH 58.26 319 P 07 37.00 0.2
 1.3s 29.00nm 4.9mb

GTA 62.78 320 P 08 07.60 0.4
 0.8s 10.00nm 4.7mb
 GUN 68.09 303 P 08 41.20 -0.5
 0.6s 23.00nm 5.1mb
 PKI 68.37 302 P 08 42.60 -0.8
 KKN 68.55 303 P 08 43.80 -0.5
 0.7s 21.00nm 5.0mb
 DMN 68.64 302 P 08 44.40 -0.5
 0.7s 23.00nm 5.1mb

GKN 69.15 303 P 08 47.40 -0.6
 0.7s 23.00nm 5.1mb
 WMO 72.84 319 eP 09 09.00 -0.6
 FBA 84.65 23 (P) 10 13.50 0.7
 SIV 144.48 128 PKPc 17 14.20 -1.9
 S.D. = 0.8 on 43 of 43 obs.

AUG 16, 1990 18h 39m 18.75 ± 0.79s
 47.625 N ± 5.7km 7.531 E ± 6.9km
 DEPTH = 10.0km (geophysicist)
 SWITZERLAND (544)
 ML 2.5 (LDG).

MOF 0.35 310 Pg 39 26.18 0.1
 Sg 39 32.65
 FEL 0.41 52 ePg 39 26.14 -1.0
 BSF 0.54 293 Pg 39 29.60 -0.1
 Sg 39 37.60
 Sn 39 39.20
 LOMF 0.55 240 Pg 39 28.04 -1.9
 ECH 0.64 337 Pg 39 31.96 0.3
 Sg 39 41.93
 CDF 0.81 348 Pg 39 34.87 0.4
 Sg 39 47.37
 HAU 0.88 296 Pg 39 36.00 0.3
 Sg 39 48.30
 LPL 2.18 195 Pn 39 56.60 0.8
 Pg 40 00.60
 LPG 2.19 194 Pn 39 57.00 0.9
 Pg 40 00.70
 Sg 40 26.40
 LBF 2.50 256 Pg 40 07.00 6.8X
 Sg 40 34.40
 LOR 2.52 263 Pg 40 04.80 4.4X
 Sg 40 36.30
 SMF 2.70 250 Pg 40 07.50 4.5X
 Sg 40 41.00
 SSF 2.79 260 Pg 40 10.40 6.1X
 Sg 40 44.50
 AVF 2.97 255 Pg 40 14.00 7.3X
 Sg 40 50.50
 BGF 3.37 253 Pn 40 20.40 7.9X
 MAF 3.68 249 Pg 40 25.50 8.6X
 S.D. = 1.1 on 9 of 16 obs.

* AUG 16, 1990 19h 05m 02.83 ± 0.47s
 0.739 N ± 8.7km 126.753 E ± 17.2km
 DEPTH = 10.0km (geophysicist)
 4.4mb (4 obs.)
 MOLUCCA PASSAGE (266)

WRA 21.86 161 Pc 09 56.80 -0.9
 0.7s 50.50nm 5.0mb
 MBL 22.79 197 iPd 10 06.60 -0.3
 0.4s 8.00nm 4.6mb
 QIZ 24.61 319 eP 10 24.10 -0.5
 QIS 24.62 150 iPc 10 25.00 0.2
 ASPA 25.23 164 iPc 10 30.30 -0.3
 0.5s 129.00nm 5.9mb X

eS 14 53.00
 WARB 26.76 180 eP 10 45.00 0.2
 FORR 31.44 178 eP 11 25.20 -1.4
 CHTO 32.66 305 P 11 36.70 -0.8
 XAN 37.10 335 eP 12 16.20 0.8
 ADE 37.24 164 iPc 12 16.50 0.0
 TIY 39.09 342 eP 12 33.30 1.3
 Z 12s 0.70um 4.7MsZx

BJI 40.29 347 eP 12 41.50 -0.3
 0.7s 5.00nm 4.3mb
 BWA 40.45 152 eP 12 45.00 1.7
 SNY 41.00 356 eP 12 46.40 -1.2
 CAN 41.46 152 eP 12 52.10 0.6
 GTA 45.68 331 eP 13 25.80 0.0
 GBA 50.45 287 P 14 05.00 1.8
 0.6s 1.90nm 4.2mb

WMO 55.19 326 eP 14 36.60 -1.6
 MAIO 71.35 308 eP 16 26.00 0.7
 S.D. = 1.1 on 19 of 19 obs.

AUG 16, 1990 19h 12m 18.75 ± 1.25s
 11.167 S ± 6.3km 161.963 E ± 5.9km
 DEPTH = 31.8 ± 8.9 km
 5.1mb (10 obs.) 5.3MsZ (17 obs.)
 SOLOMON ISLANDS (193)

Ms 5.1 (BRK).
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 14S, 31C
 Centroid Location:
 Origin Time 19:12:23.5 0.8
 Lat 10.59S 0.11 Lon 162.02E 0.04
 Dep 15.0 FIX Half-duration 2.6
 Moment Tensor: Scale 10¹⁷ Nm

Mrr= 1.30 0.05 Mtt=-0.64 0.09 Mff=-0.65 0.09 Mrt= 1.82 0.14 Mrf=-2.97 0.14 Mtf= 1.00 0.05 Principal Axes: T Val= 3.66 Plg=56 Azm= 66 N 0.26 6 327 P -3.92 34 232 Best Double Couple: Mo=3.8+10+17 NP1: Strike=298 Dip=13 Slip= 60 NP2: 148 79 96					CD2 69.75 309 eP 23 28.00 -0.2 Z 20s 1.00um 5.1Msz eS 32 30.20 BTO 70.37 320 eP 23 29.50 -2.3 N 15s 0.60um E 15s 0.80um LZH 72.12 314 eP 23 44.00 1.5 Z 20s 39.00nm 5.1mb E 15s 1.60um 5.3Msz GTA 76.50 315 eP 24 06.80 -0.9 Z 22s 20.00nm 4.9mb N 16s 0.96um 5.3Msz S 33 50.00 SPA 78.91 180 eP 24 19.20 -1.3 Z 20s 66.67nm 5.5mb 1.3s 1.80um 5.4Msz TTA 80.65 18 P 24 27.00 -2.8 1.0s 7.50nm 4.6mb PMR 81.98 21 P 24 35.00 -1.6 Z 20s 10.00nm 4.8mb E 20s 2.00um 5.5Msz MAW 83.21 202 eP 24 44.00 1.1 PKI 83.46 300 P 24 46.00 0.6 DMN 83.72 300 P 24 45.20 -1.5 GKN 84.23 300 P 24 47.40 -1.7 BRK 85.00 50 eP 25 06.00 9.5X BKS 85.82 50 ePd 25 07.50 10.9X 1.2s 50.00nm Z 20s 1.10um 5.3Msz E 20s 0.70um eS 35 26.00 eSS 41 26.00 eLQ 48 00.00 eLR 50 50.00 e 52 20.00 MHC 86.12 51 eP 25 07.70 9.4X WDC 86.42 48 eP 25 04.50 5.0X PRI 86.52 52 eP 25 09.20 8.9X WMO 86.57 316 P 25 02.00 1.7 Z 20s 1.40um 5.4Msz SKS 35 22.00 S 35 36.00 CMB 87.27 51 eP 25 03.40 -0.4 FRI 87.50 52 eP 25 11.20 6.4X MWC 88.07 55 eP 25 10.00 2.1 SBB 88.37 54 eP 25 08.00 -1.2 RVR 88.56 55 eP 25 10.00 0.0 LON 88.80 42 P 25 10.00 -0.9 PLM 88.81 56 eP 25 16.00 4.5X CLC 88.83 53 eP 25 11.00 -0.3 KVN 89.27 50 P 25 12.50 -1.0 e 25 21.80 GSC 89.33 54 eP 25 12.00 -1.8 GLA 90.40 57 eP 25 18.00 -0.7 INK 91.24 20 eP 25 20.00 -1.7 NEW 92.27 41 P 25 28.00 1.0 ALO 97.58 56 e(P) 25 47.00 -4.8X Z 18s 0.81um 5.3Msz GOL 99.07 51 P 26 06.00 7.6X Z 18s 2.95um 5.8Msz NAO 126.07 343 PKP 31 14.80 -4.4X 1.4s 12.20nm KRA 130.22 329 ePKP 31 30.20 2.8X e 35 44.00 SPC 130.59 328 ePKP 31 31.00 2.6 SRO 132.44 327 e(PKP) 31 32.90 1.3 BRG 132.55 333 ePKP 31 34.30 2.5 1.6s 20.00nm ZST 132.84 328 e(PKP) 31 35.60 3.2X SKO 133.87 319 ePKP 31 36.50 1.9 Z 19s 0.55um 5.3Msz N 18s 0.41um E 19s 0.49um LR 34 29.00 KHC 133.95 331 ePKP 31 34.20 -0.4 Z 18s 0.60um 5.4Msz N 16s 0.40um E 16s 0.30um BCAO 143.18 262 iPKPd 31 50.70 -1.8 0.8s 19.00nm id 32 17.10 PDCR 148.50 138 ePKP 31 57.30 -3.9X e 32 02.50 TOL 148.83 339 ePKP 32 05.00 4.0X ASMO 150.93 336 ePKP 32 04.50 0.1					AAPN 151.12 337 ePKP 32 05.00 0.3 ACHM 151.18 336 ePKP 32 07.00 2.3 APHE 151.25 336 ePKP 32 04.00 -1.0 ALQJ 151.28 336 ePKP 32 10.00 5.0X ATEJ 151.42 336 ePKP 32 05.00 -0.2 MAL 151.74 336 ePKP 32 02.00 -3.5X CAI 154.11 132 ePKP 32 10.50 1.0 S.D. = 1.4 on 68 of 92 obs. % AUG 16, 1990 19h 21m 53.35± 1.01s 40.364 N ±10.2km 28.938 E ± 5.5km DEPTH = 10.0km (geophysicist) TURKEY (366) IZI 0.41 94 iPg 22 02.10 0.4 eSg 22 07.80 ISK 0.71 7 iPg 22 07.80 0.5 HRT 0.72 50 ePg 22 07.00 -0.5 EDC 0.82 269 ePg 22 09.20 -0.1 CTT 0.87 334 ePg 22 10.00 -0.1 eSg 22 20.30 EYL 0.95 77 iPg 22 11.40 -0.2 S.D. = 0.5 on 6 of 6 obs. AUG 16, 1990 19h 22m 50.51± 1.25s 26.948 S ± 4.8km 71.036 W ±14.5km DEPTH = 30.0 ± 9.9 km 4.9mb (1 obs.) OFF COAST OF NORTHERN CHILE (121) ANT 3.28 10 iP 23 41.50 0.5 iS 34 31.00 RTRS 3.50 157 ePc 23 45.00 0.9 RTBS 4.90 164 e(P) 24 06.00 2.1 RTLL 4.91 153 ePc 24 03.30 -0.9 ZON 5.02 156 eP 24 06.20 0.3 CFA 5.25 153 ePc 24 09.20 0.2 RTCV 5.36 157 e(P) 24 10.00 -0.6 JACH 5.73 176 eP 24 14.50 -1.3 iS 25 29.90 ROCH 6.00 180 ePc 24 25.50 5.6X i 25 45.50 IHA 6.08 185 eP 24 28.50 7.8X e(S) 25 43.50 MDZ 6.21 163 eP 24 20.80 -1.8 i 24 24.80 iS 25 07.70 FCH 6.39 174 eP 24 26.50 1.1 i 25 48.50 LCCH 6.52 184 eP 24 22.00 -4.9X i 25 50.00 PCH 6.67 176 ePc 24 29.50 0.5 i 25 52.00 TACH 6.68 179 eP 24 25.00 -4.2X i 25 53.00 LNV 6.99 183 ePd 24 27.70 -5.8X i 24 43.00 iS 25 53.20 ARE 10.44 358 eP 25 21.00 -0.6 CCH 10.54 26 P 25 33.60 10.6X LPB 10.72 15 P 25 25.00 -0.5 ZOBO 10.97 15 PKP 25 29.00 0.0 Z 20s 0.47um LR 11 16.00 SIV 14.30 42 P 26 07.40 -5.7X BAO 24.20 67 eP 28 04.00 -1.7 BMA 24.74 86 (P) 28 13.00 2.1 CAI 38.09 64 eP 30 08.50 0.0 SPA 63.21 180 iPc 33 16.90 -1.2 1.0s 10.00nm 4.9mb ALQ 70.09 330 eP 34 03.60 1.5 EDM 87.89 336 eP 35 38.50 0.3 WRA 127.29 210 PKPd 41 53.70 -0.7 0.7s 2.50nm S.D. = 1.2 on 21 of 28 obs. ? AUG 16, 1990 19h 29m 37.22± 1.43s 40.563 N ±12.6km 29.096 E ±10.3km DEPTH = 10.0km (geophysicist) TURKEY (366) IZI 0.37 128 iPg 29 44.40 -0.4 iSg 29 50.30 HRT 0.51 59 ePg 29 47.00 -0.5 CTT 0.77 319 ePg 29 52.30 0.0 eSg 30 02.80 EYL 0.81 89 ePg 29 53.80 0.8				
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16d 19h

S.D. = 1.0 on 4 of 4 obs.

* AUG 16, 1990 20h 04m 00.42 ± 0.46s
 16.960 S ± 11.1km 168.072 E ± 13.5km
 DEPTH = 33.0km (normal)
 4.6mb (3 obs.) 4.7Msz (3 obs.)

VANUATU ISLANDS (186)

PVC 0.81 164 iP 04 14.00 -1.4
 iS 04 26.50
 DZM 5.31 197 iPc 05 20.00 0.4
 iS 06 24.00
 HNR 10.89 312 P 06 36.00 -1.1
 STK 28.22 233 iPc 09 53.00 0.6
 1.2s 5.00nm 4.1mb
 e 10 08.10

WB5 32.08 260 eP 10 26.00 -0.8
 WRA 32.10 259 Pd 10 26.40 -0.6
 1.3s 9.80nm 4.5mb

ASPA 32.68 253 iPd 10 30.90 -1.1
 0.8s 20.00nm 5.1mb
 Z 21s 1.81um 4.7Msz

PCC 84.82 48 eP 16 38.20 5.2X
 PRI 85.49 50 eP 16 39.90 3.3X

WDC 86.06 46 eP 16 38.00 -1.1
 CMB 86.48 49 eP 16 38.50 -2.9
 FRI 86.54 50 eP 16 41.50 -0.1

KVN 88.53 48 P 16 40.00 -11.4X
 SKO 142.11 318 ePKP 23 29.00 -2.2
 CDF 144.92 338 ePKP 23 33.50 -2.4
 0.9s 9.85nm

BSF 145.58 338 ePKP 23 35.40 -1.7
 0.8s 5.35nm

HAU 145.60 338 ePKP 23 35.60 -1.4
 0.8s 10.75nm
 Z 20s 0.13um 4.7Msz

SAL 145.83 331 PKP 23 36.00 -1.4
 MDI 146.07 332 PKP 23 40.00 2.3

PGD 146.54 328 PKP 23 40.00 1.2
 TDS 146.62 318 PKP 23 40.00 1.1

MME 146.81 330 PKP 23 40.00 0.6
 BDI 146.95 330 PKP 23 37.00 -2.4

MNS 147.08 325 PKP 23 39.00 -0.6
 LOR 147.09 340 ePKP 23 39.90 0.5
 0.6s 2.70nm

Z 20s 0.08um 4.5Msz
 LBF 147.30 340 ePKP 23 40.60 0.8
 1.0s 9.00nm

SSF 147.38 340 ePKP 23 40.90 1.0
 0.8s 8.05nm

RMP 147.45 325 PKP 23 41.00 0.9
 RDP 147.48 325 PKP 23 43.50 3.2X

LPL 147.53 335 ePKP 23 41.90 1.4
 0.8s 4.70nm

LPG 147.54 335 ePKP 23 42.10 1.5
 0.8s 5.35nm

BCAO 147.65 251 iPKPc 23 43.00 1.7
 0.8s 7.00nm

SOI 147.68 316 PKP 23 41.00 0.4
 BNI 147.93 335 PKP 23 42.00 1.0

BGF 148.04 341 ePKP 23 42.40 1.5
 0.8s 6.05nm

MAF 148.43 341 ePKP 23 43.50 1.9
 0.7s 2.20nm

TCF 148.48 341 ePKP 23 43.70 2.0
 0.8s 3.35nm

PGF 148.86 329 ePKP 23 44.90 2.4X
 0.8s 8.05nm

S.D. = 1.5 on 33 of 38 obs.

* AUG 16, 1990 20h 13m 47.04 ± 0.64s
 16.826 S ± 10.7km 168.015 E ± 13.7km
 DEPTH = 33.0km (normal)
 4.4mb (2 obs.)

VANUATU ISLANDS (186)

PVC 0.95 163 iP 14 04.00 -0.1
 iS 14 15.00

DZM 5.42 196 iPd 15 07.70 -0.1
 iS 16 08.10

WRA 32.07 259 P 20 12.00 -1.4
 1.2s 1.40nm 3.7mb

ASPA 32.66 252 iPc 20 20.00 1.5
 0.7s 14.00nm 5.0mb

PRI 85.45 50 eP 26 24.00 1.0
 WDC 86.00 46 eP 26 24.20 -1.3

CMB 86.43 49 eP 26 28.00 0.3
 FRI 86.50 50 eP 26 28.00 0.0
 MIN 86.54 46 eP 26 33.80 5.4X
 CAI 145.98 131 ePKP 33 25.30 0.1

S.D. = 1.1 on 9 of 10 obs.

* AUG 16, 1990 20h 38m 25.52 ± 0.57s
 40.078 S ± 9.7km 77.527 E ± 12.8km
 DEPTH = 10.0km (geophysicist)
 4.9mb (6 obs.)

MID-INDIAN RISE (429)

MAW 28.74 192 iPc 44 24.80 0.0
 BLF 43.13 268 eP 46 45.00 17.1X

SLR 43.22 274 eP 46 40.00 11.3X
 ASPA 49.79 89 iPd 47 20.20 -0.3
 1.0s 13.00nm 4.9mb

SPA 50.11 180 iPc 47 27.30 4.7X
 1.0s 15.00nm 4.9mb

STK 51.50 102 iPc 47 32.80 -0.5
 1.1s 6.00nm 4.4mb

WRA 52.23 85 Pc 47 39.30 0.3
 0.7s 4.50nm 4.5mb

WB5 52.28 85 eP 47 39.90 0.5
 PKI 67.70 8 P 49 25.20 -0.2

DMN 67.71 7 P 49 25.80 0.5
 KKN 67.90 7 P 49 26.40 -0.1

0.8s 30.00nm 5.5mb
 GKN 68.05 7 P 49 27.40 0.0
 1.0s 46.00nm 5.6mb

GUN 68.08 8 P 49 27.40 -0.4
 INK 147.11 21 ePKP 58 20.00 13.2X

KVN 167.89 90 (PKP) 58 33.00 0.1
 S.D. = 0.4 on 11 of 15 obs.

* AUG 16, 1990 23h 36m 55.10 ± 0.74s
 28.107 S ± 8.2km 26.634 E ± 8.7km
 DEPTH = 5.0km (geophysicist)

REPUBLIC OF SOUTH AFRICA (584)
 ML 2.6 (PRE).

SEK 0.73 107 eP 37 10.00 0.3
 S 37 20.00

BLF 1.15 209 iPd 37 17.00 -0.1
 S 37 33.60

PRY 1.30 26 eP 37 20.50 0.7
 S 37 35.00

KIM 1.92 250 eP 37 29.50 0.6
 FRS 2.11 219 eP 37 31.00 -0.4

S 37 56.00
 BPI 2.20 29 eP 37 34.00 1.0
 S 37 59.90

EVA 2.56 52 eP 38 04.50 26.5X
 S 38 34.00

SLR 2.69 29 eP 37 38.00 -2.0
 S 38 09.30

BFT 3.75 51 eP 38 32.00 37.0X
 S 38 40.50

S.D. = 1.2 on 7 of 9 obs.

* AUG 16, 1990 23h 52m 17.50 ± 0.73s
 27.794 N ± 9.1km 56.858 E ± 4.4km

DEPTH = 62.2 ± 8.3 km
 4.7mb (21 obs.)

SOUTHERN IRAN (353)

BRF 5.86 254 ePn 53 43.80 0.1
 eSn 54 49.60

BBU 5.92 256 iPn 53 44.20 -0.4
 eSn 54 49.20

MAIO 8.77 14 eP 54 25.00 0.8
 eS 55 56.00

QUE 9.15 72 eP 54 28.60 -1.0
 RYD 9.69 254 eP 54 33.00 -3.8X

eS 56 18.00
 MJMA 10.51 262 eP 54 43.70 -4.3X

QASM 12.01 265 eP 55 03.30 -4.8X
 AFIF 12.84 256 eP 55 19.30 0.2

MKT 19.17 285 eP 56 38.80 -0.1
 NOH 19.32 284 eP 56 40.60 0.1

ZNT 19.40 288 eP 56 41.70 0.4
 KKN 25.12 83 P 57 38.20 -0.2

PKI 25.26 84 P 57 41.20 1.3
 KRA 35.79 319 iPd 59 12.60 0.2

e 59 19.20
 MGR 36.10 301 P 59 15.50 0.4
 SGO 36.33 301 P 59 18.00 0.9

DUI 37.12 303 P 59 26.00 2.2
 TRI 38.35 310 P 59 33.00 -1.0
 MNS 38.53 304 P 59 36.00 0.4

FVI 39.21 311 P 59 41.00 -0.1
 NUR 39.29 335 eP 59 42.00 0.5
 e 59 51.00

BNG 39.41 312 iPd 59 43.10 0.3
 PGD 39.44 306 P 59 45.00 1.7

BRG 39.65 317 e(P) 59 55.40 10.7X
 BDI 40.27 306 P 59 50.50 0.5

CLL 40.35 318 eP 59 51.00 0.5
 1.3s 13.00nm 4.6mb

e 59 58.00
 SOTA 40.40 311 iPc 59 50.50 -0.6
 0.6s 13.90nm 5.0mb

id 59 50.80
 i 59 55.60

OGA 40.45 311 eP 59 51.60 0.0
 SAL 40.56 309 P 59 53.00 0.8

OSS 41.01 310 ePc 59 56.60 0.4
 MDI 41.15 309 P 59 58.00 1.0

VDL 41.43 310 ePc 59 59.90 0.2
 SAX 41.65 311 ePc 00 01.10 -0.5

TMA 41.78 309 ePc 00 02.20 -0.3
 LLS 41.82 310 ePc 00 02.30 -0.5

SLE 42.31 311 ePc 00 06.10 -0.6
 MMK 42.40 309 ePc 00 06.60 -1.0

DIX 42.78 309 ePc 00 10.60 -0.2
 LPG 43.17 308 eP 00 13.40 -0.6

0.8s 2.70nm 4.1mb
 BNI 43.17 307 P 00 10.00 -3.8X

LPL 43.18 308 eP 00 13.50 -0.5
 0.8s 5.35nm 4.4mb

BSF 43.46 311 eP 00 15.30 -0.7
 0.7s 4.40nm 4.3mb

HFS 43.53 330 eP 00 15.50 -0.8
 0.4s 1.40nm 4.1mb

Z 20s 0.04um 3.3Msz
 LR 19 45.00

SOD 43.62 344 eP 00 17.00 0.0
 MEM 44.45 315 P 00 24.70 0.8

NAO 45.11 330 P 00 27.90 -1.1
 0.8s 2.30nm 4.1mb

LBF 45.24 310 iPc 00 30.40 0.0
 0.7s 7.70nm 4.7mb

DOU 45.25 314 Pc 00 31.20 0.9
 SMF 45.30 309 eP 00 30.40 -0.4

0.8s 18.80nm 5.0mb
 LOR 45.35 310 iPc 00 30.40 -0.8

0.6s 7.20nm 4.7mb
 KEV 45.39 346 eP 00 37.00 5.9X

SSF 45.57 310 iPc 00 32.60 -0.3
 0.6s 14.45nm 5.0mb

AVF 45.65 309 eP 00 32.80 -0.7
 0.6s 4.95nm 4.6mb

BGF 45.98 309 iPc 00 35.70 -0.4
 0.6s 10.80nm 5.0mb

MAF 46.15 309 iPc 00 37.50 0.0
 0.8s 8.05nm 4.7mb

TCF 46.40 309 iPc 00 39.40 -0.1
 0.8s 8.05nm 4.7mb

CAF 46.43 307 eP 00 39.70 0.0
 0.8s 4.05nm 4.4mb

RJF 46.83 307 eP 00 43.10 0.2
 1.0s 12.00nm 4.8mb

LSF 46.87 309 eP 00 42.80 -0.3
 0.8s 6.70nm 4.6mb

LFF 47.37 307 eP 00 47.20 0.1
 0.8s 10.75nm 4.8mb

LDF 48.14 312 eP 00 52.10 -0.9
 0.6s 9.00nm 4.9mb

FLN 48.39 312 eP 00 54.10 -0.8
 0.6s 6.30nm 4.8mb

S.D. = 0.7 on 56 of 62 obs.

* AUG 17, 1990 00h 51m 05.26 ± 1.02s
 12.193 S ± 12.3km 76.529 W ± 21.8km

DEPTH = 33.0km (normal)
 NEAR COAST OF PERU (115)

PT08 0.23 355 iPd 51 12.50 -0.1
 NNA 0.37 304 iPc 51 14.10 0.1

iS 51 19.50
 PT06 1.64 173 iP 51 31.80 -0.3

iS 51 50.90
 PT03 1.93 158 iPd 51 36.70 0.4

iS 51 54.70

17d 01h

LRM 34.99 336 eP 44 11.00 45 50.60 0.0
 PNT 40.72 333 eP 46 40.00 1.9
 YKA 50.07 347 eP 47 53.70 1.6
 INK 59.42 344 eP 48 58.00 -2.1
 PDCR 59.99 114 eP 49 03.70 -0.9
 MBC 63.06 353 eP 49 23.00 -1.4
 GBA 150.36 19 PKPd 58 47.60 4.7X
 0.7s 2.90nm

S.D. = 1.3 on 18 of 21 obs.

AUG 17, 1990 01h 40m 22.24 ± 1.00s
 39.382 N ± 8.3km 20.449 E ± 9.6km
 DEPTH = 10.0km (geophysicist)
 GREECE-ALBANIA BORDER REGION (392)
 MD 2.9 (ATH).

KEK 0.60 304 ePb 40 35.00 0.6
 EVR 1.15 113 ePn 40 45.20 1.3
 VLS 1.21 175 ePb 40 44.10 -0.6
 KZN 1.37 47 ePb 40 45.00 -2.5
 AGG 1.51 103 eP 40 48.90 -0.4
 FNA 1.57 27 eP 40 50.40 0.1
 LIT 1.73 65 eP 40 52.80 0.3
 OHR 1.75 9 eP 40 52.00 -0.8
 VAY 2.53 39 eP 41 06.00 2.1
 KNT 2.58 46 eP 41 07.80 3.0X
 SKO 2.70 16 eP 41 12.50 6.1X

S.D. = 1.5 on 9 of 11 obs.

AUG 17, 1990 01h 55m 34.66 ± 0.39s
 52.346 N ± 9.4km 167.452 W ± 4.8km
 DEPTH = 33.0km (normal)
 4.9mb (33 obs.) 4.7msz (11 obs.)
 FOX ISLANDS, ALEUTIAN ISLANDS (9)
 ML 4.6 (PMR).

SDM 5.09 51 eP 56 48.30 -2.3
 ADK 5.71 269 eP 56 58.90 -0.4
 TTA 12.23 25 eP 58 31.20 1.9
 TOA 15.03 41 eP 59 02.10 -4.1X
 IMA 15.40 21 P 59 12.40 1.4
 FBA 16.12 31 eP 59 17.70 -2.3
 SIT 19.04 63 eP 59 56.70 0.4
 INK 22.73 32 eP 00 31.00 -3.4X
 YKA 29.37 49 eP 01 38.70 2.3
 PNT 29.93 76 eP 01 53.00 11.5X
 NEW 31.88 77 eP 01 59.00 0.3
 EDM 32.08 67 eP 01 58.50 -1.9
 LBFM 32.53 91 eP 02 04.80 0.1
 WDC 32.58 93 eP 02 05.90 1.1
 ORV 33.83 94 eP 02 16.00 0.2
 BKS 34.43 97 eP 02 28.10 45kmX
 SES 34.51 70 eP 02 20.00 -1.5
 MHC 35.14 97 eP 02 28.70 1.6
 CMB 35.46 95 eP 02 28.50 -1.3
 PRS 35.96 98 eP 02 34.80 0.9
 LLA 36.03 97 eP 02 35.00 0.4
 KVN 36.23 92 eP 02 36.00 -0.4
 PRI 36.51 97 eP 02 39.80 1.1
 FRI 36.54 96 eP 02 39.70 0.9

BCH 37.50 98 eP 02 47.50 0.5
 ISA 38.16 96 eP 03 05.00 12.5X
 ABL 38.25 98 eP 02 52.00 -1.4
 CLC 38.60 95 eP 03 03.00 6.8X
 DUG 38.77 86 eP 02 58.00 0.3

BW06 39.25 80 eP 03 00.80 -0.9
 MWC 39.38 97 eP 03 06.00 3.1X
 GSC 39.42 95 eP 03 03.00 -0.1
 RVR 39.95 97 eP 03 20.00 12.7X
 TPC 40.68 96 eP 03 20.00 6.6X
 PLM 40.70 97 eP 03 11.70 -2.0
 MAT 40.87 269 (P) 03 14.00 -0.9
 BAR 41.28 98 eP 03 26.00 7.7X
 GLA 42.15 96 eP 03 33.00 7.6X
 GOL 43.61 81 eP 03 37.00 -0.6
 GLD 43.67 81 eP 03 38.50 0.6
 CN2 44.15 287 eP 03 40.00 -1.5
 ANMO 46.00 87 eP 03 56.40 -0.2
 ALD 46.00 87 eP 03 56.00 -0.7

SNY 46.43 286 eP 03 57.40 -2.3
 SIO 51.64 79 e(P) 04 44.30 4.3X
 TUL 51.84 79 eP 04 43.50 2.0
 BJI 51.90 289 eP 04 41.00 -0.9
 HMC 54.02 292 eP 04 57.00 -0.8
 SSE 54.97 277 eP 05 06.00 1.3
 BTO 55.07 293 eP 05 04.00 -1.4
 TIY 55.63 289 eP 05 10.50 1.0
 KEV 57.76 354 eP 05 22.00 -2.1
 WNY 58.47 57 eP 05 26.50 -3.0
 HBVT 58.90 57 eP 05 30.00 -2.4
 SOD 60.14 354 iP 05 37.90 -2.7
 XAN 60.23 288 P 05 41.00 -0.8
 GTA 61.53 298 eP 05 48.60 -2.1

LMS 61.66 70 eP 05 48.00 -3.4X
 LZH 61.68 293 P 05 52.00 0.2
 WMO 64.47 309 eP 06 09.00 -0.9
 SUF 64.78 353 eP 06 09.00 -2.5
 CD2 65.49 289 eP 06 17.80 1.1
 NUR 67.08 354 iP 06 24.00 -2.2
 GYA 67.08 284 P 06 28.00 1.1
 NAO 67.17 1 P 06 24.20 -2.7
 HFS 67.87 359 eP 06 28.40 -2.8
 CLL 76.72 360 eP 07 23.00 -0.7
 KSP 77.14 358 eP 07 26.30 0.3
 BRG 77.15 359 eP 07 16.50 -9.6X

MOX 77.38 1 eP 07 28.00 0.6
 GUN 77.76 300 P 07 31.40 1.1
 KRA 77.78 355 eP 07 30.60 1.0
 PRU 78.03 359 eP 07 32.00 1.1
 KKN 78.18 300 P 07 32.80 0.4
 PKI 78.28 300 P 07 33.10 -0.1
 GRF 78.33 1 eP 07 34.60 2.0

CLL 76.72 360 eP 07 23.00 -0.7
 KSP 77.14 358 eP 07 26.30 0.3
 BRG 77.15 359 eP 07 16.50 -9.6X
 MOX 77.38 1 eP 07 28.00 0.6
 GUN 77.76 300 P 07 31.40 1.1
 KRA 77.78 355 eP 07 30.60 1.0
 PRU 78.03 359 eP 07 32.00 1.1
 KKN 78.18 300 P 07 32.80 0.4
 PKI 78.28 300 P 07 33.10 -0.1
 GRF 78.33 1 eP 07 34.60 2.0

CLL 76.72 360 eP 07 23.00 -0.7
 KSP 77.14 358 eP 07 26.30 0.3
 BRG 77.15 359 eP 07 16.50 -9.6X
 MOX 77.38 1 eP 07 28.00 0.6
 GUN 77.76 300 P 07 31.40 1.1
 KRA 77.78 355 eP 07 30.60 1.0
 PRU 78.03 359 eP 07 32.00 1.1
 KKN 78.18 300 P 07 32.80 0.4
 PKI 78.28 300 P 07 33.10 -0.1
 GRF 78.33 1 eP 07 34.60 2.0

CLL 76.72 360 eP 07 23.00 -0.7
 KSP 77.14 358 eP 07 26.30 0.3
 BRG 77.15 359 eP 07 16.50 -9.6X
 MOX 77.38 1 eP 07 28.00 0.6
 GUN 77.76 300 P 07 31.40 1.1
 KRA 77.78 355 eP 07 30.60 1.0
 PRU 78.03 359 eP 07 32.00 1.1
 KKN 78.18 300 P 07 32.80 0.4
 PKI 78.28 300 P 07 33.10 -0.1
 GRF 78.33 1 eP 07 34.60 2.0

GKN 78.35 301 P 07 32.80 -0.5
 DMN 78.41 300 P 07 34.20 0.4
 SPC 78.63 355 eP 07 36.10 1.6
 KHC 78.90 359 P 07 37.50 1.7
 Z 1.2s 7.00nm 4.5mb
 N 15s 0.50um 4.9mszX
 E 15s 0.30um

ZST 79.76 357 eP 07 42.00 1.6
 SRO 80.10 356 iP 07 44.30 2.1
 LOR 80.49 6 eP 07 44.00 -0.3
 SSF 80.67 6 eP 07 45.40 0.1
 LBF 80.78 6 eP 07 46.70 0.8
 SOTA 80.81 1 eP 07 46.00 -0.1
 SMF 81.11 6 eP 07 47.70 0.1
 LSF 81.33 8 eP 07 48.60 -0.2
 FVI 81.44 360 P 07 50.00 0.8
 MDI 82.23 2 P 07 58.50 5.1X
 RJF 82.27 8 eP 07 53.40 -0.3

SAL 82.41 1 P 07 56.00 1.7
 LFF 82.56 8 eP 07 55.10 -0.1
 MAIO 82.70 323 iPd 07 58.00 1.9
 BNI 82.85 4 P 07 58.00 1.1
 SBF 84.07 4 eP 08 03.70 0.7
 PGD 84.16 1 P 08 06.00 2.4
 PII 84.30 1 P 08 05.00 1.0
 QUE 85.07 315 eP 08 09.00 0.6
 PGF 85.44 3 eP 08 10.30 0.4
 MNS 85.65 360 P 08 10.00 -0.9
 SKO 85.75 353 iP 08 13.00 1.7

AZI 86.04 359 P 08 14.00 1.3
 RDP 86.28 360 P 08 13.00 -1.0
 VAY 86.31 352 eP 08 16.40 2.3
 DUI 86.36 359 P 08 16.00 1.5
 BBTK 86.52 345 eP 08 18.00 2.6X
 OHR 86.65 354 iP 08 11.00 -4.9X
 MGR 87.86 358 P 08 21.00 -0.6
 TDS 88.31 357 P 08 25.00 1.2
 BUL 145.51 333 iPKPd 15 09.80 -1.2

WIN 150.07 352 ePKP 15 23.50 5.3X
 BFT 150.27 327 iPKP 15 24.50 6.0X
 SLR 150.88 330 iPKPc 15 24.50 5.2X
 BPI 151.37 330 ePKP 15 26.00 5.9X
 KSR 151.42 332 ePKP 15 27.00 6.8X
 PRY 152.25 330 ePKP 15 32.50 11.2X
 BLF 154.68 331 ePKP 15 30.00 5.4X

S.D. = 1.4 on 94 of 118 obs.
 AUG 17, 1990 01h 55m 42.83 ± 1.60s
 11.113 S ± 14.4km 162.255 E ± 16.0km
 DEPTH = 101.4 ± 14.2 km
 4.3mb (4 obs.)
 SOLOMON ISLANDS (193)

HNR 2.82 306 iP 56 27.00 0.1
 DZM 11.61 160 iP 58 26.50 -0.2
 CTA 17.79 238 iPd 59 45.70 0.1
 RMO 19.90 218 iPd 00 09.00 0.2
 OIS 23.70 244 iPd 00 47.40 0.9
 STK 28.12 220 eP 01 28.10 0.8
 WB5 28.21 249 eP 01 28.00 -0.2
 WRA 28.25 248 Pc 01 28.10 -0.5
 ASPA 29.73 241 iPd 01 40.20 -1.6

2 29s 0.30um 3.7mszx
BCAO 143.47 262 iPKPc 15 08.50 0.3
0.5s 5.00nm
PDCR 148.34 137 ePKP 15 23.00 6.9X
e 15 27.70
e 15 32.10
e 15 42.40
S.D. = 0.9 on 10 of 11 obs.

% AUG 17, 1990 02h 15m 33.73± 0.61s
42.853 N ± 6.5km 12.710 E ± 9.9km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

MNS 0.47 183 P 15 42.50 -0.8
eSg 15 50.50
AQU 0.71 134 P 15 48.00 0.2
eSg 15 58.00
AZI 1.02 148 P 15 53.00 0.1
eSg 16 09.00
RMP 1.04 180 P 15 54.00 0.6
eSg 16 10.00
RDP 1.09 180 P 15 55.00 0.7
eSg 16 10.50
SFI 1.24 330 P 15 57.00 0.3
PGD 1.25 325 P 15 58.00 0.9
SDI 1.41 144 P 16 00.00 0.5
DUI 1.76 132 P 16 03.50 -1.1
BDI 1.96 309 P 16 06.00 -1.4
S.D. = 0.9 on 10 of 10 obs.

AUG 17, 1990 02h 18m 37.35± 0.51s
38.621 N ± 4.1km 27.215 E ± 5.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.5 (ATH).

IZM 0.23 171 iPg 18 42.10 -0.1
iSg 18 51.60
SMG 0.96 198 ePb 18 55.50 -0.1
PRK 0.96 311 ePb 18 57.00 1.3
CIN 1.23 146 ePg 18 59.00 -1.2
iSg 19 16.00
EZN 1.39 330 iPn 19 02.60 -0.1
DST 1.47 48 iPn 19 02.80 -1.2
EDC 1.79 16 iPn 19 08.30 -0.3
BNT 1.82 17 iPn 19 07.60 -1.3
KGT 1.83 2 iPn 19 09.60 0.6
KHL 1.84 99 iPn 19 10.80 1.5
KCT 1.85 28 iPn 19 08.60 -0.8
APE 2.04 221 ePb 19 17.00 4.8X
eSn 19 45.10
MFT 2.16 1 ePn 19 13.60 -0.4
ALT 2.30 78 ePn 19 17.00 1.0
IZI 2.45 45 ePn 19 19.00 1.0
CTT 2.69 20 ePn 19 20.60 -0.8
ISK 2.82 30 ePn 19 23.00 -0.3
RDO 2.83 333 ePn 19 23.40 0.0
HRT 2.90 40 ePn 19 31.00 6.6X
GPA 2.92 54 ePn 19 31.00 6.3X
EYL 2.99 49 ePn 19 27.00 1.2
S.D. = 1.0 on 18 of 21 obs.

% AUG 17, 1990 02h 24m 00.76s
66.410 N 144.802 W
DEPTH = 20.7km
ALASKA
<AGS-P> (676)

FYU 0.23 312 iP 24 06.39 0.0
GLM 1.79 218 eP 24 30.64 -0.2
eS 24 52.41
FBA 1.96 221 eP 24 33.00 -0.3
CCB 2.17 217 eP 24 35.50 -0.8
eS 25 04.89
HDA 2.20 205 eP 24 36.09 -0.8
eS 25 05.01
WRH 2.38 217 eP 24 38.40 -0.9
DDM 2.67 190 eP 24 42.06 -1.5
DOT 2.79 173 eP 24 42.73 -2.4
MCK 3.21 215 iP 24 50.41 -0.7
IMA 3.61 269 e(P) 25 00.30 3.4
INK 4.76 61 P 25 08.00 -5.0
PMR 5.20 203 eP 25 19.20 0.0
TTA 5.94 239 e(P) 25 31.00 1.2

HYT 6.48 147 P 25 33.00 -4.4
14 obs. associated
& AUG 17, 1990 02h 26m 17.20s
37.288 N 121.697 W
DEPTH = 5.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 4.0 (BRK).
Mo=8.6+10+14 Nm (BRK). Felt at
Morgan Hill.

MHC 0.07 39 iPd 26 18.72 -0.3
iS 26 20.25
ARN 0.14 65 iPd 26 19.50 -0.7
GCC 0.35 223 iPd 26 24.60 0.3
SAO 0.56 159 iPd 26 28.40 0.0
iS 26 37.90
PCC 0.58 291 iPc 26 28.30 -0.6
BKS 0.73 324 iPc 26 31.25 -0.5
iS 26 42.20
BRK 0.74 323 iPc 26 31.20 -0.7
ZSP 0.79 326 iP 26 32.60 -0.4
iS 26 45.50
LLA 0.90 138 iPc 26 33.60 -1.4
PRS 0.99 165 iPd 26 35.40 -1.0
CMB 1.28 54 iPd 26 39.80 -1.6
PRI 1.41 144 eP 26 41.70 -2.0
NWRM 1.50 321 eP 26 42.30 -2.5
FRI 1.62 100 eP 26 44.60 -1.8
ORV 2.27 4 eP 26 51.00 -4.9
BCH 2.47 148 eP 26 55.50 -3.4
BLP 2.92 158 eP 27 01.80 -3.3
MIN 3.05 1 eP 27 07.30 0.1
ABL 3.15 140 eP 27 05.00 -3.6
19 obs. associated

AUG 17, 1990 02h 56m 06.07± 0.38s
3.386 N ± 4.9km 122.537 E ± 6.1km
DEPTH = 560.0 ± 5.3 km
5.2mb (26 obs.)
CELEBES SEA (262)

MNI 3.00 130 ePc 57 21.50 -1.0
TSM 4.53 281 iPd 57 34.90 1.6
1.0s 1945.20nm
KKM 6.83 293 ePc 57 53.00 -0.7
0.8s 143.80nm 5.1mb X
TRT 14.80 222 iPd 59 07.80 -5.2X
0.6s 89.60nm 5.4mb
MTN 18.25 152 iPd 59 46.50 0.0
OIZ 19.89 322 eP 00 00.80 -1.1
KNA 19.99 162 iPc 00 02.50 -0.3
0.4s 82.00nm 5.7mb
IPM 21.49 274 ePd 00 17.10 0.5
1.0s 76.90nm 5.3mb
SNG 22.15 281 eP 00 21.90 -0.6
PPI 22.46 261 eP 00 25.00 -0.3
0.6s 28.70nm 5.1mb
PSI 23.59 269 ePd 00 37.20 1.7
1.0s 169.10nm 5.6mb
MBL 24.54 186 iPc 00 42.70 -1.2
0.4s 23.00nm 5.2mb
NST 25.20 300 eP 00 51.00 1.1
WB5 25.88 154 eP 00 53.90 -1.9
eS 04 42.10
i 06 52.10
WRA 25.92 154 Pd 00 54.80 -1.4
0.6s 63.10nm 5.4mb
BDT 26.89 302 eP 01 03.50 -1.1
0.6s 60.09nm 5.4mb
GYA 27.53 328 iPd 01 10.60 0.3
PMG 27.63 118 eP 01 10.00 -1.1
CHG 27.70 305 iPd 01 11.90 0.1
0.9s 29.41nm 4.9mb
WHN 28.10 345 eP 01 17.00 2.0
KMI 28.81 320 Pd 01 22.50 0.9
1.5s 100.00nm 5.2mb
ASPA 29.08 158 iPc 01 22.60 -1.1
0.5s 106.00nm 5.7mb
Z 22s 0.38um 4.0mszx
iS 05 32.90
iScP 07 02.10
eScS 10 54.40
LR 12 29.40
OIS 29.10 146 eP 01 10.00 -13.8X
e 01 23.00
WARB 29.66 173 iPd 01 28.40 -0.2

MEKA 30.07 187 eP 01 31.50 -0.6
0.3s 23.00nm 5.3mb
CD2 32.61 329 eP 01 53.30 -0.3
CTA 32.96 136 iPc 01 57.00 0.4
1.0s 50.00nm 5.1mb
MRWA 33.02 191 iPc 01 56.70 -0.2
0.4s 28.00nm 5.2mb
XAN 33.03 339 P 01 56.50 -0.5
ScP 07 15.80
FORR 34.45 172 eP 02 08.50 -0.4
KLB 35.08 187 iPc 02 17.80 3.7X
0.4s 35.00nm 5.3mb
TIY 35.40 346 eP 02 16.50 -0.2
MUN 35.68 189 iPd 02 19.00 0.0
NWA0 36.46 188 iPc 02 25.90 0.5
LZH 36.84 334 Pd 02 29.50 0.8
1.5s 51.00nm 4.9mb
BJI 36.94 352 eP 02 29.00 -0.2
RKG 37.62 188 eP 02 39.60 4.7X
RMO 39.05 141 eP 02 46.00 -0.7
e 04 43.00
STK 39.47 154 iPc 02 50.70 0.7
0.7s 63.00nm 5.3mb
e 04 35.70
iS 08 22.20
ADE 41.06 160 iPc 03 03.70 0.9
0.7s 246.58nm 5.8mb
GTA 41.37 333 P 03 06.00 0.7
0.8s 30.00nm 4.9mb
ScP 07 48.00
BRS 42.27 138 iPc 03 13.00 0.6
GUN 42.61 309 P 03 15.60 0.1
PKI 42.81 308 P 03 17.00 -0.1
KKN 43.02 308 P 03 18.60 0.0
DMN 43.07 308 P 03 19.20 0.1
GKN 43.62 308 P 03 23.00 -0.3
COO 43.89 142 iPd 03 26.60 1.5
BFD 44.44 157 eP 03 31.00 1.8
BWA 44.81 149 iPc 03 34.10 1.9
i 04 56.30
GBA 45.67 286 Pd 03 37.70 -1.3
0.8s 59.10nm 5.2mb
CAN 45.81 149 iPc 03 40.70 0.9
i 05 05.80
CNB 45.99 149 iPd 03 42.10 0.8
0.8s 94.00nm 5.4mb
TOO 45.99 154 iPc 03 42.50 1.3
0.9s 37.00nm 4.9mb
DZM 49.82 123 iPc 04 10.20 -0.1
WMO 50.69 328 P 04 16.40 0.0
S 10 52.00
THZ 64.06 140 P 05 47.10 -0.1
LTZ 64.19 141 P 05 48.40 0.3
KHZ 64.80 141 P 05 51.00 -0.8
PGZ 65.70 138 P 05 56.90 -0.6
HBZ 65.77 134 P 05 57.70 -0.2
0.6s 95.00nm 5.5mb
NOZ 66.02 135 P 05 59.10 -0.3
ADI 85.92 303 eP 07 49.10 0.6
PRNI 86.19 300 iPd 07 50.50 0.7
RMN 86.50 300 eP 07 51.30 0.0
SOD 89.18 337 iP 08 02.80 -0.2
SUF 89.95 333 iP 08 05.50 -1.1
INK 92.00 21 eP 08 16.00 0.0
MBC 93.19 12 eP 08 21.50 0.2
BUL 94.83 250 iPd 08 28.60 -1.4
0.9s 4.20nm 4.7mb
HFS 96.35 332 eP 08 33.50 -2.4
0.5s 1.30nm 4.4mb
NAO 97.46 333 P 08 39.00 -1.9
0.9s 2.40nm 4.5mb
KVN 110.14 46 PKP 13 37.00 0.5
ALO 120.31 46 ePKP 13 56.00 0.0
CHCH 147.21 159 ePKP 14 49.00 3.7X
TACH 147.36 159 ePKPd 14 49.50 3.9X
PCH 147.54 159 iPKPc 14 50.00 4.0X
SAN 147.64 159 ePKP 14 50.20 4.2X
JACH 148.36 159 ePKP 14 52.30 5.0X
CNCB 163.13 143 PKP 15 09.00 2.2
i 16 04.00
LPB 163.27 142 PKP 15 07.00 0.2
ZOB0 163.45 141 PKP 15 07.00 -0.1
CCH 163.69 149 (PKP) 15 07.00 0.0
SIV 166.98 164 PKP 15 09.80 0.4
i 16 17.60
S.D. = 0.9 on 75 of 84 obs.

DEPTH = 33.0km (normal) 5.0mb (6 obs.) 4.6Msz (3 obs.) FIJI ISLANDS REGION (181)					0.8s 12.10nm LPL 150.22 355 ePKP 42 14.90 6.1X 0.9s 6.55nm LPG 150.24 355 ePKP 42 14.80 5.9X 1.0s 8.00nm OHR 150.44 332 ePKP 42 14.50 5.5X HLW 150.45 303 ePKP 42 15.00 5.7X BNI 150.68 355 PKP 42 16.00 6.6X BDI 151.11 349 PKP 42 15.50 5.5X DUI 152.40 341 PKP 42 21.00 9.1X BCAO 160.98 235 iPKPd 42 23.30 0.0 1.1s 15.00nm S.D. = 1.1 on 38 of 67 obs.					LZH 19.99 312 eP 10 11.00 2.6 Z 15s 0.30um PP 10 27.00 CN2 20.01 7 eP 10 08.00 -0.4 LOE 20.25 255 eP 10 11.50 0.5 CHTO 22.27 261 P 10 33.00 1.5 epP 10 38.50 20kmX WRA 45.16 164 Pd 13 51.00 0.1 0.6s 4.80nm 4.5mb ASPA 48.63 166 iPd 14 17.10 -1.1 0.6s 5.00nm 4.7mb STK 58.48 161 eP 15 30.60 0.0 0.7s 6.00nm 4.8mb FBA 68.60 27 P 16 38.60 1.8 INK 73.11 22 eP 17 04.00 0.2 pP 17 18.00 49kmX MBC 73.31 13 eP 17 04.00 -0.9 HFS 78.27 331 eP 17 32.60 -0.5 0.7s 7.00nm 4.8mb Z 17s 0.13um 4.3MszX LR 53 46.00 NAO 79.18 332 P 17 37.20 -0.9 0.8s 6.10nm 4.6mb S.D. = 1.4 on 27 of 29 obs.				
VUN 4.83 243 eP 23 37.10 0.2 SVA 4.89 241 ePc 23 37.60 -0.1 RMO 33.53 246 eP 29 03.00 -0.6 CAN 36.03 231 eP 29 24.00 -0.9 BWA 36.12 233 eP 29 19.30 -6.3X CMS 37.22 239 iPd 29 35.40 0.6 STK 40.81 239 iPd 30 04.80 0.1 1.0s 10.00nm 4.5mb WRA 46.34 257 Pd 30 48.00 -1.6 0.8s 3.40nm 4.4mb ASPA 46.66 252 iPd 30 50.70 -1.4 0.6s 28.00nm 5.4mb Z 26s 0.60um 4.4MszX ePP 32 16.80 LR 47 31.60					? AUG 17, 1990 09h 53m 28.43± 4.58s 34.282 S ± 40.0km 71.101 W ± 8.0km DEPTH = 33.0km (normal) NEAR COAST OF CENTRAL CHILE (135)					AUG 17, 1990 11h 34m 30.06± 0.30s 40.650 N ± 3.2km 21.770 E ± 2.7km DEPTH = 4.1 ± 2.6 km 3.7mb (1 obs.) GREECE (364) ML 3.9 (ATH), 3.5 (SKO), 3.5 (TTG), MD 3.4 (THE). Felt in the Plateaus area.				
BRK 74.10 42 eP 34 12.80 13.4X MHC 74.20 43 eP 34 11.80 11.6X MWC 74.96 47 eP 33 54.00 -10.7X FRI 75.29 44 eP 34 05.80 -0.5 RVR 75.32 48 eP 33 57.00 -9.6X SBB 75.36 47 eP 34 06.00 -0.9 CMB 75.42 43 eP 34 06.50 -0.6 WDC 75.50 40 eP 34 07.10 -0.3 CLC 76.11 46 eP 33 57.00 -14.0X GSC 76.40 47 eP 34 13.00 0.3 TTA 80.19 10 eP 34 33.30 0.4 PMR 80.27 13 eP 34 32.40 -0.8 PNT 82.27 34 eP 34 43.00 -1.0 0.9s 16.00nm 5.1mb BJI 83.24 315 eP 34 50.00 0.9 1.0s 12.00nm 5.0mb FBA 83.49 12 eP 34 48.60 -1.3 0.9s 21.80nm 5.3mb ALO 83.76 51 eP 34 51.80 -0.4 LRM 84.53 39 eP 34 55.70 -0.2 SES 87.56 36 ePc 35 09.50 -0.9 CHTO 89.54 290 P 35 21.50 1.1 SPC 143.85 341 ePKP 41 53.90 -4.4X PRU 144.64 347 PKP 41 57.70 -1.7 1.5s 22.30nm					LNV 0.41 322 iPd 53 38.30 0.6 iS 53 47.70 CHCH 0.51 47 iPd 53 39.70 0.5 iS 53 50.80 TACH 0.64 12 iPd 53 41.50 0.4 iS 53 53.50 PCH 0.82 37 iPd 53 43.90 0.3 iS 53 57.70 LCCH 0.89 334 iPd 53 44.80 0.2 iS 53 58.80 SAN 0.90 24 eP 53 45.20 0.4 iS 53 59.90 FCH 1.17 36 iPd 53 49.20 0.4 iS 54 57.50 ROCH 1.31 3 iPd 53 51.20 0.5 iS 54 11.20 JACH 1.65 15 iPd 53 56.10 0.5 iS 54 19.40 S.D. = 0.1 on 9 of 9 obs.					FNA 0.33 294 iPg 34 36.10 -0.6 KZN 0.34 180 iPg 34 36.00 -1.0 GRG 0.57 57 ePg 34 41.80 0.4 KBN 0.73 268 iPg 34 42.00 -2.6 LIT 0.78 135 iPg 34 44.20 -1.4 eSg 34 55.80 OHR 0.87 302 iPg 34 45.00 -2.3 iSg 34 57.90 VAY 0.90 42 iPg 34 47.60 -0.3 iS 34 59.70 iSg 35 03.00 THE 0.91 91 ePg 34 47.50 -0.5 eSg 35 01.20 KNT 1.00 59 ePg 34 49.80 0.3 LSK 1.02 241 iPg 34 47.30 -2.7 PLG 1.31 102 ePg 34 54.50 -0.3 SKO 1.34 349 iPg 34 54.30 -1.1 0.3s 520.00nm				
MLR 144.68 332 ePKP 41 58.00 -1.8 BHL 145.51 308 PKP 42 01.00 -0.5 GRF 145.55 351 ePKP 42 01.00 0.0 Z 20s 0.10um 4.6Msz KHC 145.66 348 iPKP 42 01.50 0.3 1.3s 18.00nm SRO 145.66 342 iPKP 42 01.50 0.3 ZST 145.67 343 ePKP 42 01.60 0.4 EYL 145.87 322 ePKP 42 01.00 -0.9 SOP 146.29 343 ePKP 42 03.80 1.6 DSI 146.59 304 ePKP 42 04.70 1.5 MKT 146.99 303 ePKP 42 06.30 2.4X CDF 147.30 355 ePKP 42 06.20 2.2 1.0s 16.00nm PRNI 147.31 302 iPKPc 42 07.00 2.5X RMN 147.56 302 iPKPc 42 07.50 2.6X HAU 147.78 356 ePKP 42 07.40 2.8X 1.0s 12.00nm Z 22s 0.13um 4.7Msz SOTA 147.94 349 ePKP 42 07.00 1.9 1.6s 37.00nm i 42 21.00					% AUG 17, 1990 11h 03m 18.25± 0.76s 39.084 N ± 6.2km 27.612 E ± 7.9km DEPTH = 10.0km (geophysicist) TURKEY (366)					SRS 1.46 71 ePb 34 56.90 -0.3 eSb 35 17.60 SRN 1.56 241 iPn 35 00.00 1.5 KKB 1.57 39 iPd 34 59.00 0.3 IGT 1.57 225 ePb 34 58.20 -0.5 eSb 35 19.10 TIR 1.60 296 ePn 34 59.20 0.0 AGG 1.68 165 ePbc 34 59.80 -0.6 EVR 1.73 179 ePn 35 01.50 0.3 NEO 1.75 140 ePb 35 00.50 -0.8 MMB 1.75 57 iPd 35 02.00 0.6 KEK 1.78 239 ePb 35 02.00 0.2 LACI 1.84 303 ePn 35 02.40 -0.3 SDA 2.19 309 ePn 35 08.90 1.2 VTS 2.22 29 iP 35 09.00 0.7 ULC 2.31 305 ePn 35 10.00 0.5 eSn 35 39.00 PVY 2.36 326 ePn 35 11.00 0.6 eSn 35 40.00 RZN 2.45 64 iP 35 12.00 0.3 TTG 2.59 314 ePn 35 15.20 1.8 eSn 35 47.50 PGB 2.61 43 iP 35 14.00 0.2 IVA 2.62 328 ePn 35 14.80 0.8 eSn 35 48.00 VLS 2.63 201 ePn 35 14.60 0.5 PLD 2.64 56 eP 35 18.00 3.8X BDV 2.75 307 ePn 35 16.00 0.3 eSn 35 51.00 RDO 2.90 79 ePn 35 17.00 -0.8 LCI 2.93 265 P 35 19.50 1.3 KDZ 2.93 69 iP 35 19.00 0.7				
FVI 148.24 347 PKP 42 09.00 3.7X LJU 148.34 345 e(PKP) 42 06.00 0.4 VOY 148.51 345 ePKP 42 08.20 2.2 LOR 148.63 359 ePKP 42 09.60 3.6X 1.2s 8.95nm Z 20s 0.08um 4.5Msz VBY 148.65 343 e(PKP) 42 10.40 4.3X CEY 148.65 344 e(PKP) 42 10.50 4.4X SSF 148.84 359 ePKP 42 10.40 4.1X 1.2s 29.75nm LBF 148.91 359 ePKP 42 10.50 4.0X 1.2s 20.85nm SKO 149.46 332 ePKP 42 11.50 4.0X 1.5s 43.00nm MDI 149.60 351 PKP 42 11.00 3.5X TCF 149.61 1 ePKP 42 12.20 4.6X 1.0s 8.00nm SAL 149.63 349 PKP 42 09.50 2.0 LSF 149.63 2 ePKP 42 12.20 4.6X 1.0s 14.00nm MAF 149.68 1 ePKP 42 12.50 4.8X					S.D. = 0.3 on 7 of 7 obs. AUG 17, 1990 11h 05m 36.75± 1.37s 23.914 N ± 7.6km 122.243 E ± 11.6km DEPTH = 45.6 ± 11.8 km 4.7mb (5 obs.) TAIWAN REGION (243)					TWD 0.62 286 iPd 05 48.40 -0.9 eS 05 57.00 TWC 0.78 333 iPd 05 52.30 0.8 eS 06 03.70 TWF1 1.03 237 iPd 05 54.40 -0.6 TWZ 1.32 333 iPd 06 00.60 1.5 TWQ 1.34 286 iPd 06 00.40 1.1 ANP 1.43 333 eP 06 02.00 1.3 eS 06 20.00 TWK 1.73 249 ePc 06 05.80 0.8 eS 06 27.90 QZH 3.48 288 iPd 06 28.20 -1.6 Pg 06 40.00 iSn 07 05.00 SSE 7.21 353 P 07 26.00 3.7X PP 07 31.50 eS 08 40.50 GZH 8.21 266 eP 07 34.20 -1.9 NJ2 8.64 340 Pd 07 40.00 -2.0 WHN 9.64 315 eP 07 53.50 -2.3 QIZ 12.52 250 eP 08 35.60 0.7 eS 10 48.80 GYA 14.33 283 P 09 00.40 1.6 S 11 32.20 XAN 15.40 314 eP 09 11.70 -0.9 BJI 16.87 344 eP 09 39.00 7.8X CD2 17.82 297 eP 09 41.80 -1.3				

[illegible]

	0.9s	75.00nm				KSP	131.51	332	ePKP	26	30.20	1.3		1.0s	35.00nm					
AFIF	120.69	291	ePKP	26	09.50	0.4			e	28	43.00				e	26	47.00			
UME	120.95	341	ePKP	26	18.00	9.8X			i	29	52.70				ePP	29	18.00			
UQSK	121.38	293	ePKP	26	11.50	1.2	LWI	131.59	257	iPKPc	26	32.20	1.8	GRF	134.62	334	ePKP	26	36.20	
BLF	121.51	226	ePKP	26	02.00	-0.6X	PLD	131.69	317	ePKP	26	30.00	0.5			e	26	36.20	1.3	
	0.9s	66.00nm					PGB	131.84	318	ePKP	26	30.00	0.1	Z	22s	10.50um	e(PP)	29	18.60	
NUR	121.62	337	ePKP	26	08.00	-1.5	RZN	131.87	317	iPKP	26	29.00	-1.1			e	29	45.90	6.5Msz	
	0.8s	36.70nm				BZS	131.88	323	ePKP	26	29.00	-0.7			e	30	06.10			
Z	20s	21.00um			6.0Msz	WIN	131.97	226	iPKPc	26	34.00	3.1X	OHR	134.74	318	iPKP	26	26.00	-9.4X	
		e												1.0s	73.00nm	i	26	35.50		
		e														i	26	35.40		
		e														e	30	06.30		
		e														e	26	36.00		
		LR														e	26	37.50		
FRS	121.73	225	ePKP	26	12.50	1.8	TIM	132.05	323	ePKP	26	32.00	2.0	ZAG	134.96	326	ePKPd	26	36.00	
	0.6s	9.00nm				OLLA	132.06	87	ePKP	26	31.00	-0.1	BHG	135.28	330	iPKPc	26	37.50		
PRY	121.85	229	ePKP	26	14.00	2.7	LLAV	132.10	86	ePKP	26	33.00	1.8	BNS	135.28	338	iPKPd	26	38.00	
BPI	121.86	230	ePKP	26	13.00	1.6	BUD	132.28	326	ePKP	26	31.50	1.1		Z	17s	18.00um	iPP	29	20.00
SLR	121.91	230	iPKPd	26	12.60	1.2	VTs	132.44	319	ePKPc	26	32.00	0.9				ePP	26	38.50	
	0.9s	41.00nm				SRO	132.46	327	iPKP	26	31.80	1.0	VBY	135.55	327	ePKPd	26	38.50		
		i							e	30	01.30					ePP	30	08.50		
SCH	122.08	31	ePKP	26	11.50	0.3			e	39	18.50		LJU	135.58	328	ePKP	26	37.00		
TXNY	122.57	48	iPKP	26	13.00	1.0	8RG	132.56	333	e(PKP)	26	19.50	-11.4X				ePP	30	08.50	
GMTN	122.65	48	iPKP	26	13.00	0.9		Z	20s	18.50um		6.8Msz	CEY	135.84	327	ePKP	26	38.50		
PNJ	122.67	48	PKP	26	16.00	3.9X		N	20s	8.50um			ENN	135.91	338	ePKP	26	39.00		
KIM	122.71	225	iPKP	26	15.00	2.2		E	20s	6.00um				1.0s	30.00nm	e	26	50.50		
KSR	122.88	229	iPKPc	26	14.00	0.7				e	26	32.80				ePP	29	12.00		
CNCB	123.31	119	PKP	26	14.00	-0.8				i	27	29.50				eSKP	30	10.00		
		i								iSKP	29	58.80		VOY	135.93	328	ePKP	26	37.00	
LPB	123.33	118	PKP	26	20.00	5.3X				e	30	58.00		MEM</						

Z	0.8s	21.50nm				ACHM	151.19	336	ePKP	27	04.00	0.2	WB5	28.67	249	eP	32	25.00	-1.0	
LPL	139.77	333	ePKP	26	39.20	-5.7X	APHE	151.26	336	ePKP	27	04.00	0.0	WRA	28.71	248	Pd	32	24.80	-1.6
	1.1s	17.10nm					MTH	151.29	346	ePKP	27	11.00	7.2X		1.5s	16.70nm			4.5mb	
LPG	139.78	333	ePKP	26	39.40	-5.6X	ALOJ	151.29	336	ePKP	27	03.60	-0.5	ASPA	30.18	241	eP	32	37.00	-2.5
ATN	0.8s	21.50nm					MOE	151.42	344	iPKPd	27	11.00	7.0X		1.0s	6.00nm			4.3mb	
LDF	139.79	318	PKP	26	42.50	-2.4								BCAO	143.93	262	iPKPc	46	04.80	0.2
	139.81	342	ePKP	26	38.10	-6.4X	ATEJ	151.43	336	ePKP	27	04.30	0.0		0.5s	7.00nm				
SSF	1.0s	16.00nm					LIS	151.45	345	iPKPd	27	12.20	8.2X	S.D. = 1.5 on 10 of 10 obs.						
	139.87	337	ePKP	26	40.50	-4.2X	MAL	151.75	336	iPKPd	27	11.20	6.6X	? AUG 17, 1990	14h	45m	08.80±	4.50s		
SMF	0.9s	21.30nm												44.213 N	±41.2km	11.478 E	±15.3km			
	140.08	336	ePKP	26	40.90	-4.2X	EVAL	151.82	341	e(PKP)	27	06.60	1.9	DEPTH =	10.0km	(geophysicist)				
BAO	1.0s	16.00nm					EPRU	151.85	338	e(PKP)	27	10.90	6.1X	NORTHERN ITALY (545)						
AVF	140.12	131	ePKP	26	37.50	-8.7X	EJIF	152.39	338	e(PKP)	27	11.30	5.8X	PGD	0.38	152	P	45	15.80	-0.9
	140.15	337	ePKP	26	40.60	-4.6X	TAF	152.51	331	iPKP	27	15.00	9.2X				iSg	45	21.50	
BNI	0.9s	6.55nm					FIG	152.60	342	iPKPc	27	15.00	9.2X	SFI	0.40	137	P	45	17.00	0.1
GRR	140.15	332	PKP	26	39.50	-6.0X											eSg	45	22.50	
	140.22	342	ePKP	26	38.90	-6.4X	NKM	153.26	337	ePKP	27	13.00	6.3X	BDI	0.65	257	P	45	21.50	-0.4
DOI	1.0s	24.00nm															eSg	45	32.50	
MNO	140.31	331	PKP	26	42.50	-3.2X	CAI	154.09	132	ePKP	27	08.40	-0.1	CRE	0.68	149	P	45	23.00	0.7
LPF	140.42	318	PKP	26	47.00	0.7	IFR	154.81	334	iPKP	27	16.00	6.8X				eSg	45	33.00	
	140.59	342	ePKP	26	39.90	-6.0X	AVE	155.92	338	ePKP	27	13.00	2.5	PII	0.85	235	P	45	25.50	0.4
TCF	0.7s	23.15nm															eSg	45	37.00	
LSF	141.00	338	ePKP	26	42.30	-4.5X	TIO	157.96	335	iPKP	27	14.50	1.2	S.D. = 0.9 on 5 of 5 obs.						
	0.8s	22.15nm																		
MFF	141.29	338	ePKP	26	42.40	-4.9X														
	0.6s	5.85nm					KIC	166.05	251	PKP	27	23.04	1.5	AUG 17, 1990	14h	57m	25.51±	0.64s		
RJF	141.57	340	ePKP	26	43.70	-4.1X														

BNT 0.18 199 iPg 03 58.80 -0.3
 EDC 0.21 209 iPg 03 59.50 0.0
 KGT 0.53 262 iPg 04 02.50 0.0
 CST 0.70 28 ePn 04 05.80 0.2
 DST 1.04 152 ePn 04 09.00 0.6
 IZI 1.14 99 ePn 04 15.30 0.6
 S.D. = 0.5 on 6 of 6 obs.

* AUG 17, 1990 15h 39m 14.59 \pm 3.44s
 31.840 S \pm 13.5km 72.378 W \pm 28.8km
 DEPTH = 33.0km (normal)
 OFF COAST OF CENTRAL CHILE (134)

ROCH 1.62 135 iPd 39 40.60 -0.8
 JACH 1.73 120 iP 39 41.50 -1.4
 LCCH 1.77 158 eP 39 45.00 1.7
 PEL 1.93 133 iPc 39 45.00 -0.8
 TACH 2.18 147 iPd 39 49.50 0.3
 LNV 2.26 159 eP 39 50.00 -0.4
 FCH 2.30 131 iPd 39 50.30 -1.0
 PCH 2.37 139 ePc 39 52.00 -0.1
 RTBS 2.50 87 ePc 39 53.50 -0.3
 CHCH 2.54 146 eP 39 54.50 0.0
 RTRS 3.01 57 iPc 40 00.00 -1.0
 MDZ 3.16 110 eP 40 04.80 1.5
 ZON 3.17 86 eP 40 03.20 -0.1
 RTCV 3.27 91 e(P) 40 06.30 1.5
 RTLL 3.37 82 ePd 40 07.00 0.7
 CFA 3.53 87 e(P) 40 05.00 -3.6X
 S.D. = 1.1 on 15 of 16 obs.

* AUG 17, 1990 15h 39m 50.76 \pm 0.75s
 11.358 S \pm 10.1km 162.002 E \pm 12.8km
 DEPTH = 33.0km (normal)
 4.8mb (7 obs.)
 SOLOMON ISLANDS (193)

HNR 2.78 313 eP 40 34.00 0.0
 CTA 17.46 238 iPc 43 55.00 1.5
 RMO 19.56 218 iP 44 19.30 0.4
 OIS 23.37 244 iPc 44 58.00 0.5
 CMS 25.00 214 iPc 45 13.60 0.5
 STK 27.78 220 iPc 45 38.60 -0.2
 WB5 27.90 249 eP 45 38.30 -1.7
 WRA 27.94 249 eP 45 39.10 -1.2
 ASPA 29.39 242 eP 45 49.40 -4.1X
 FORR 36.88 233 eP 46 58.00 -0.2
 SPA 78.72 180 eP 51 50.30 -1.0
 BAO 143.20 262 iPKPc 59 19.90 -4.4X
 ASMO 151.11 336 ePKP 59 37.00 0.5
 AAPN 151.31 337 ePKP 59 37.20 0.4
 APHE 151.44 336 ePKP 59 37.30 0.2
 ATEJ 151.61 336 ePKP 59 37.50 0.2
 S.D. = 0.9 on 14 of 16 obs.

* AUG 17, 1990 16h 00m 31.87 \pm 3.69s
 37.346 N \pm 22.9km 20.747 E \pm 28.8km
 DEPTH = 10.0km (geophysicist)
 IONIAN SEA (399)
 MD 3.1 (ATH).

VLS 0.84 351 ePg 00 48.50 0.4
 ITM 0.96 100 ePg 00 49.00 -1.1
 EVR 1.78 28 ePg 01 05.50 2.6
 VLI 1.86 109 ePb 01 05.00 0.9
 AGG 2.09 36 ePc 01 08.10 0.7
 KEK 2.48 343 ePg 01 22.50 9.6X
 NEO 2.76 44 ePn 01 16.30 -0.7
 KZN 3.06 15 ePn 01 20.00 -1.2
 OHR 3.76 1 e(Pn) 01 30.50 -0.7
 KNT 4.16 23 ePc 01 35.80 -1.0
 SKO 4.65 6 e(Pn) 01 58.00 14.2X
 S.D. = 1.5 on 9 of 11 obs.

* AUG 17, 1990 17h 19m 53.71 \pm 0.68s
 40.402 N \pm 8.6km 28.973 E \pm 5.1km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

IZI 0.39 100 iPg 20 02.00 0.3
 KCT 0.50 252 iPg 20 02.70 -1.1
 ISK 0.67 6 ePg 20 07.00 0.1
 HRT 0.68 51 iPg 20 06.70 -0.4
 BNT 0.81 267 iPg 20 16.20 0.6
 DST 0.84 199 iPg 20 20.20 0.4
 EDC 0.85 267 iPg 20 23.30 -1.1
 GPA 1.03 96 ePn 20 21.00 -0.2
 KGT 1.28 273 ePn 20 20.00 2.6
 S.D. = 1.3 on 9 of 9 obs.

* AUG 17, 1990 17h 26m 18.88 \pm 1.08s
 20.851 S \pm 14.0km 68.900 W \pm 22.5km
 DEPTH = 101.2 \pm 17.6 km
 4.5mb (2 obs.)
 CHILE-BOLIVIA BORDER REGION (124)

ANT 3.17 206 iPd 27 07.70 0.0
 CNCB 4.11 12 P 27 34.50 9.8X
 CCH 4.32 38 P 27 32.20 8.3X
 LPB 4.36 10 P 27 38.90 14.4X
 ZOBO 4.62 9 eP 27 28.00 -0.2
 SIV 8.86 58 iPc 28 26.40 0.4
 BAO 20.52 79 eP 30 50.50 -0.8
 KIC 68.51 74 P 37 13.80 1.0
 LKO 69.14 71 P 37 16.24 -0.5
 S.D. = 1.0 on 6 of 9 obs.

* AUG 17, 1990 18h 16m 23.43 \pm 0.71s
 37.765 N \pm 6.7km 20.811 E \pm 4.6km
 DEPTH = 5.0km (geophysicist)
 4.1mb (3 obs.)
 IONIAN SEA (399)
 MD 3.9 (THE). ML 3.5 (ATH).

VLS 0.45 337 ePg 16 32.80 0.4
 ITM 1.06 123 ePg 16 43.00 -0.9
 EVR 1.39 34 ePb 16 48.90 -0.7
 AGG 1.73 43 ePnd 16 55.90 1.5
 IGT 1.80 348 ePn 16 55.90 0.5
 VLI 1.99 121 ePg 17 00.50 2.4
 KEK 2.10 338 ePg 17 04.10 4.4X
 SRN 2.20 344 ePn 17 03.60 2.4
 ATH 2.31 84 ePn 17 03.00 0.3
 LSK 2.39 356 iPnd 17 04.20 0.3
 NEO 2.44 50 ePn 17 04.60 0.0
 KZN 2.65 16 ePn 17 08.50 0.9
 LIT 2.68 29 ePnc 17 08.60 0.7
 FNA 3.05 8 ePnc 17 13.20 0.0
 PLG 3.32 37 ePn 17 16.50 -0.5
 THE 3.32 30 ePnc 17 17.00 0.0
 OHR 3.34 360 ePn 17 17.20 -0.2
 LCI 3.40 320 P 17 18.00 -0.1
 GRG 3.42 21 ePn 17 18.60 0.1
 TIR 3.65 349 ePn 17 22.70 1.0
 KNT 3.76 25 ePnc 17 23.20 -0.1

SOI 3.77 276 P 17 22.00 -1.5
 VAY 3.80 20 ePn 17 24.60 0.7
 LACI 3.96 348 ePn 17 25.00 -1.1
 SRS 3.98 32 ePn 17 27.10 0.7
 ORI 4.10 305 P 17 30.50 2.3
 BRT 4.18 319 P 17 27.50 -1.8
 SKO 4.23 6 ePn 17 28.50 -1.5
 ATN 4.24 277 P 17 29.00 -1.2
 SDA 4.36 347 ePn 17 31.00 -0.9
 MMB 4.43 30 eP 17 32.00 -0.9
 KKB 4.45 22 eP 17 41.00 7.8X
 MGR 4.73 302 P 17 38.50 1.3
 RZN 4.94 36 iPc 17 39.00 -1.3
 SGO 5.11 305 P 17 43.50 1.1
 ALN 5.12 51 ePn 17 40.90 -1.7
 VTS 5.16 20 eP 17 44.00 0.7
 HFS 22.84 351 eP 21 25.20 -3.1X
 EKA 23.90 325 P 21 45.00 6.4X
 NB2 24.07 349 P 21 37.40 -2.9
 S.D. = 1.3 on 36 of 40 obs.

* AUG 17, 1990 18h 46m 09.19 \pm 0.89s
 39.961 N \pm 7.2km 23.073 E \pm 7.2km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)
 MD 2.9 (ATH). 2.6 (THE).

PLG 0.53 322 ePb 46 19.00 -0.9
 NEO 0.82 218 ePb 46 24.50 -0.6
 THE 0.97 314 ePg 46 27.90 0.4
 LIT 1.07 278 ePbc 46 30.10 0.7
 SRS 1.18 350 ePbd 46 31.80 0.7
 KNT 1.41 329 ePbc 46 35.30 0.4
 GRG 1.50 312 ePn 46 37.10 0.9
 AGG 1.52 232 ePb 46 35.40 -1.0
 MMB 1.63 356 eP 46 36.00 -2.1
 VAY 1.68 324 ePn 46 40.60 1.8
 RDO 1.74 46 ePn 46 40.00 0.5
 RZN 1.84 20 iPc 46 40.00 -1.2
 ALN 1.90 60 ePn 46 43.80 1.8
 KKB 2.00 343 iP 46 42.00 -1.3
 FNA 2.08 294 ePnc 46 45.60 1.0
 VTS 2.68 349 eP 46 52.00 -1.2
 S.D. = 1.3 on 16 of 16 obs.

* AUG 17, 1990 18h 50m 57.01 \pm 1.29s
 8.357 S \pm 17.8km 118.266 E \pm 10.9km
 DEPTH = 33.0km (normal)
 4.6mb (3 obs.)
 SUMBAWA ISLAND REGION (285)

TRT 5.61 276 ePd 52 20.20 -0.2
 MBL 12.82 173 eP 53 59.00 -0.7
 NANU 14.37 190 eP 54 20.00 -0.1
 WB5 19.34 128 eP 55 22.10 -0.7
 WRA 19.36 128 P 55 22.20 -0.8
 ASPA 21.36 137 eP 55 43.90 0.1
 FORR 24.19 159 eP 56 13.00 1.5
 STK 31.91 140 eP 57 22.70 0.9
 S.D. = 1.0 on 8 of 8 obs.

* AUG 17, 1990 19h 20m 18.04 \pm 3.73s
 2.748 N \pm 18.1km 126.957 E \pm 25.6km
 DEPTH = 67.0 \pm 32.6 km
 4.5mb (5 obs.)
 MOLUCCA PASSAGE (266)

MNI 2.48 239 ePd 20 56.00 -0.9
 TSM 8.99 280 ePd 22 29.00 1.4

17d 19h

WB5 23.63 162 eP 25 24.00 -0.1
 WRA 23.69 162 Pc 25 24.70 0.1
 0.6s 8.30nm 4.4mb
 OIS 26.27 152 iPd 25 50.00 0.9
 ASPA 27.11 166 iPd 25 55.60 -1.1
 0.7s 14.00nm 4.6mb
 CHTO 31.73 302 P 26 38.50 0.5
 FORR 33.43 178 iPc 26 52.00 -0.5
 STK 37.14 159 iPc 27 25.50 1.4
 1.1s 7.00nm 4.5mb
 BJI 38.39 347 eP 27 33.50 -1.0
 1.3s 19.00nm 4.9mb
 GBA 50.09 285 Pc 29 08.00 -0.6
 0.8s 3.50nm 4.4mb
 S.D. = 1.1 on 11 of 11 obs.

AUG 17, 1990 19h 42m 38.03± 0.99s
 39.950 N ± 7.9km 23.960 E ± 8.0km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)
 MD 2.9 (ATH), 2.6 (THE).

PLG 0.58 317 ePg 42 48.50 -1.3
 NEO 0.86 222 ePg 42 54.00 -0.6
 THE 1.02 312 ePg 42 57.30 0.0
 0.6s 4.3 11.40
 LIT 1.14 278 ePbc 42 59.60 0.2
 eSb 43 14.70
 KNT 1.46 327 ePbc 43 04.10 -0.3
 AGG 1.56 234 ePb 43 05.40 -0.5
 MMB 1.65 354 eP 43 06.00 -1.1
 RDO 1.69 45 ePb 43 09.80 2.0
 KZN 1.72 283 ePb 43 08.50 0.3
 VAY 1.73 323 eP 43 10.40 2.1
 RZN 1.83 18 iPc 43 10.00 0.1
 KDZ 2.03 33 iP 43 11.00 -1.6
 KKB 2.03 341 iPc 43 12.00 -0.6
 FNA 2.14 294 ePnc 43 15.90 1.5
 VTS 2.70 348 eP 43 22.00 -0.4
 S.D. = 1.2 on 15 of 15 obs.

AUG 17, 1990 21h 01m 17.90± 0.34s
 36.794 N ± 4.2km 83.340 W ± 2.6km
 DEPTH = 10.0km (geophysicist)
 TENNESSEE (506)
 mbLg 4.0 (BLA), 3.5 (NEIS), 3.5 (TUL). Felt (V) at Bledsoe, Ditzney and Jeff, Kentucky; (IV) at Ages-Brookside, Cranks, Doyhoit, Everts, Harlan, Hoskinson, Loyall, Mozelle, Pothfork, Putney and Wollins Creek, Kentucky; (III) at Asher, Baxter, Beverly, Choppel, Combs, Essie, Groys Knab, Gulston, Kenvir, Lejunior, Plank, Vicco and Wollins, Kentucky.

BRTN 0.58 139 P 01 29.88 0.2
 LMTN 0.91 184 P 01 35.54 0.3
 ONTN 0.94 251 P 01 34.72 -1.1
 SLTN 1.04 109 P 01 37.10 -0.6
 ORT 1.18 222 P 01 39.64 -0.2
 TKL 1.19 197 eP 01 39.80 -0.2
 GBTN 1.33 212 eP 01 42.30 -0.1
 ANTN 1.65 248 P 01 46.40 -0.6
 PWV 1.91 73 P 01 50.60 -0.3
 S 02 16.10
 WMV 1.92 80 P 01 51.00 -0.1
 S 02 16.00
 WMTN 2.03 221 P 01 53.26 0.7
 NAV 2.10 75 eP 01 53.00 -0.6
 S 02 20.20
 HWV 2.15 68 P 01 54.60 0.3
 S 02 21.50
 RSCP 2.16 237 eP 01 55.00 0.5
 BLA 2.37 79 eP 01 57.30 -0.2
 S 02 27.60
 ABTN 2.41 249 P 01 58.40 0.4
 VWV 2.45 73 P 01 59.70 1.1
 S 02 30.30
 HAKY 2.62 278 P 02 01.04 0.1
 PRM 2.82 163 eP 02 04.50 0.7
 JSC 3.03 145 eP 02 06.30 -0.4
 LHS 3.10 137 eP 02 06.20 -1.5X
 ELC 4.74 278 eP 02 33.50 2.5X
 CBN 4.95 72 eP 02 40.00 6.0X

FVM 5.77 284 eP 02 46.00 0.4
 LDN 6.46 14 P 03 10.35 15.1X
 ELF 6.58 13 P 03 11.00 14.0X
 UYO 9.44 257 e(P) 03 48.00 11.1X
 S.D. = 0.6 on 21 of 27 obs.

AUG 17, 1990 21h 40m 28.91± 0.94s
 24.466 S ± 11.8km 179.692 W ± 14.5km
 DEPTH = 500.0km (geophysicist)
 4.6mb (6 obs.)

SOUTH OF FIJI ISLANDS (171)

DZM 12.96 278 iPd 43 20.00 1.3
 HBZ 13.20 187 eP 43 22.60 1.6
 eS 45 44.40
 PUZ 13.68 187 eP 43 25.10 -0.8
 NOZ 14.24 187 eP 43 31.60 0.0
 THZ 18.32 198 eP 44 12.20 0.1
 LTZ 19.44 198 eP 44 22.50 -0.4
 CTA 31.76 271 iPd 46 13.40 0.6
 0.5s 56.34nm 5.4mb
 STK 34.78 249 iPd 46 38.90 0.9
 0.4s 7.00nm 4.5mb
 ASPA 42.23 261 iPc 47 38.90 0.1
 0.6s 12.00nm 4.6mb
 WB5 42.64 267 iPd 47 42.00 -0.1
 WRA 42.65 267 Pc 47 41.90 -0.3
 0.4s 5.50nm 4.4mb
 WARB 48.25 256 iPd 48 24.60 -0.8
 0.4s 10.00nm 4.6mb
 MBL 55.46 260 iPd 49 17.20 -0.6
 0.4s 10.00nm 4.5mb
 MRWA 56.96 250 eP 49 27.30 -0.7
 KVN 85.46 43 P 52 16.00 1.7
 HFS 143.15 349 ePKP 59 03.90 -2.3
 0.4s 2.30nm
 S.D. = 1.1 on 16 of 16 obs.

AUG 17, 1990 21h 46m 08.81± 0.14s
 11.199 S ± 3.2km 162.107 E ± 3.4km
 DEPTH = 15.3km (2 depth phases)
 5.6mb (35 obs.) 5.1msz (20 obs.)
 SOLOMON ISLANDS (193)

Ms 5.1 (BRK). Felt at Kirokoro.
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 24C
 Centroid Location:
 Origin Time 21:46:10.4 2.2
 Lat 11.615 0.21 Lon 162.08E 0.15
 Dep 15.0 FLX Half-duration 1.7
 Moment Tensor: Scale 10¹⁷ Nm
 Mrr= 0.22 0.05 Mtt=-0.48 0.07
 Mff= 0.25 0.06 Mrt= 1.07 0.14
 Mrf= 0.25 0.10 Mtf=-0.02 0.05
 Principal Axes:
 T Vol= 1.05 Plg=53 Azm=337
 N 0.22 7 77
 P -1.27 36 172
 Best Double Couple: Mo=1.2*10¹⁷
 NP1: Strike=298 Dip=11 Slip= 131
 NP2: 76 82 83

HNR 2.76 309 iP 46 56.00 2.8
 iS 47 34.00
 PVC 8.85 138 iPc 48 16.50 -2.6
 DZM 11.58 160 iPc 48 54.30 -2.3
 RAB 12.06 305 e(P) 49 04.00 1.0
 eS 51 44.00
 PMG 14.82 276 eP 49 44.00 4.4X
 1.0s 220.00nm 5.6mb
 VUN 17.21 115 eP 50 12.10 1.8
 SVA 17.24 115 eP 50 11.60 0.9
 CTA 17.63 238 iPc 50 17.00 1.5
 1.2s 693.75nm 5.7mb
 iS 53 46.00
 MNDI 18.91 284 eP 50 36.00 4.4X
 RMQ 19.75 218 iPd 50 41.60 0.5
 e 51 49.00
 COO 21.49 205 iPc 51 00.10 1.0
 QLP 22.76 225 iPd 51 12.70 1.0
 JAY 22.91 291 ePd 51 13.00 -0.4
 OIS 23.53 244 iPd 51 20.40 1.1
 BWA 26.28 206 eP 51 44.70 -0.7
 CNB 26.65 204 iPd 51 49.70 0.8
 e 52 39.00 256kmX
 CAN 26.81 204 eP 51 50.20 -0.1

STK 27.97 219 iPd 52 00.90 0.1
 0.9s 66.00nm 5.4mb
 e 58 56.20
 WB5 28.05 249 iPd 52 01.00 -0.7
 WRA 28.09 249 Pd 52 01.30 -0.8
 1.3s 102.60nm 5.4mb
 ASPA 29.56 241 iPd 52 13.00 -2.3
 0.9s 69.00nm 5.5mb
 Z 20s 3.08um 4.9msz
 eS 57 18.70
 iPcS 59 01.10
 iScS 02 52.90
 LR 03 05.40
 GUA 29.92 325 eP 52 19.60 1.1
 0.7s 158.90nm 6.0mb
 GUMO 29.98 325 eP 52 20.00 0.9
 Z 22s 2.53um 4.8msz
 TOO 30.20 207 ePd 52 20.50 -0.4
 0.8s 106.00nm 5.7mb
 BFD 31.29 211 iPd 52 33.50 3.1X
 ADE 31.82 218 iPd 52 35.00 -0.2
 0.8s 149.25nm 6.0mb
 THZ 31.89 165 P 52 35.50 -0.2
 LTZ 32.69 166 P 52 42.10 -0.5
 KNA 32.71 258 iPd 52 42.60 -0.5
 MSZ 33.73 173 P 52 51.90 0.4
 MMCZ 34.22 171 P 52 55.30 -0.7
 MHZ 34.30 171 P 52 56.20 -0.5
 TLC 34.40 171 P 52 56.90 -0.6
 WARB 36.60 241 iPd 53 16.60 0.2
 0.6s 32.00nm 5.3mb
 MNI 39.12 286 eP 53 41.00 3.4X
 MBL 41.68 251 eP 53 59.00 0.4
 MEKA 43.75 243 iPd 54 16.00 0.5
 0.6s 95.00nm 5.8mb
 KLB 45.62 237 iPd 54 30.10 -0.4
 NANU 45.81 249 eP 54 33.00 1.0
 0.7s 139.00nm 6.0mb
 TSM 46.42 287 eP 54 38.00 1.1
 NWA0 46.43 235 iPc 54 37.00 0.2
 i 56 26.00 614kmX
 MRWA 46.50 240 iPc 54 37.80 0.4
 0.4s 13.00nm 5.3mb
 RKG 46.96 234 eP 54 42.30 1.3
 MUN 47.00 237 iPc 54 41.30 0.0
 TRT 48.88 270 iPd 54 56.60 0.3
 HON 50.78 51 P 55 20.00 9.4X
 Z 20s 2.39um 5.2msz
 KAKJ 51.49 337 P 55 18.30 2.5
 WKYJ 51.72 332 eP 55 16.40 -1.2
 CHJJ 51.81 336 P 55 20.00 1.8
 TKSJ 52.25 330 eP 55 20.60 -1.0
 MAT 52.55 336 eP 55 22.00 -1.8
 1.0s 38.00nm 5.3mb
 Z 20s 1.42um 5.0msz
 eS 02 47.00
 TSRJ 52.64 333 P 55 25.90 1.4
 MTMJ 52.75 335 P 55 24.20 -1.2
 NIJJ 52.84 337 P 55 25.50 -0.5
 YAMJ 53.28 338 P 55 28.80 -0.4
 YONJ 53.51 331 eP 55 32.50 1.6
 OFUJ 53.52 340 eP 55 29.40 -1.5
 KUSJ 56.33 345 eP 55 49.80 -1.5
 SSE 57.53 318 P 55 58.00 -2.0
 1.0s 29.00nm 5.3mb
 Z 20s 0.90um 4.9msz
 ASAJ 57.83 344 eP 56 01.60 -0.3
 OIZ 59.63 300 eP 56 14.60 -0.3
 WHN 61.87 314 eP 56 29.00 -0.9
 PPI 62.19 275 eP 56 32.50 0.1
 IPM 62.76 281 ePd 56 36.80 0.6
 MDJ 62.88 334 eP 56 35.00 -1.4
 SNY 63.55 329 eP 56 40.00 -0.8
 Z 22s 1.30um 5.1msz
 S 05 12.00
 CN2 64.10 331 Pd 56 43.20 -1.2
 1.0s 100.00nm 5.9mb
 Z 20s 1.80um 5.3msz
 N 15s 0.90um
 eS 05 14.00
 eSS 09 20.00
 PSI 64.33 278 ePd 56 48.50 2.0
 SMY 64.50 8 eP 56 49.40 2.5
 TSI 64.87 279 eP 56 50.00 0.0
 ADK 65.44 14 eP 56 51.50 -1.5
 GYA 65.58 306 P 56 53.60 -0.9
 LOE 66.06 295 eP 56 56.50 -1.1

17d 22h

STK 28.20 220 iPd 10 26.60 10.4X
1.8s 305.00nm
WB5 28.29 249 eP 10 18.00 0.8
WRA 28.33 248 Pc 10 19.00 1.4
0.6s 2.40nm 4.1mb
ASPA 29.81 241 eP 10 33.70 2.8X
0.7s 4.00nm 4.3mb
MAT 52.53 336 eP 13 38.00 1.1
0.8s 5.97nm 4.6mb
PKI 83.72 300 P 16 50.60 -1.7
KKN 83.89 300 P 16 51.20 -1.8
DMN 83.99 300 P 16 52.60 -1.0
GKN 84.50 300 P 16 53.60 -2.4
KVN 88.94 50 P 17 19.60 2.2
pP 17 23.90 13kmX
BCAO 143.55 262 ePKPd 23 55.10 -3.5X
0.7s 9.00nm
ic 24 03.80
S.D. = 1.6 on 13 of 16 obs.

AUG 17, 1990 23h 49m 31.78±0.90s
37.093 N ±6.7km 29.635 E ±10.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 4.0 (ATH).

ELL 0.41 147 iPg 49 39.30 -0.9
iSg 49 47.30
KSL 0.97 182 ePg 49 49.90 -0.4
KHL 1.23 356 iPn 49 55.10 0.4
CIN 1.33 293 ePn 49 54.00 -2.4
iSg 50 13.00
IZM 2.29 305 iPn 50 09.70 -0.5
SMG 2.31 286 ePn 50 10.00 -0.5
KAP 2.51 233 ePb 50 16.00 2.7
DST 2.63 343 ePn 50 14.00 -1.1
IZI 3.24 358 ePn 50 25.00 1.3
PRK 3.41 310 ePn 50 27.50 1.4
NPS 3.73 242 ePn 50 30.50 -0.2
S.D. = 1.5 on 11 of 11 obs.

? AUG 17, 1990 23h 52m 42.76±5.98s
31.630 S ±14.1km 68.162 W ±45.3km
DEPTH = 10.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

CFA 0.07 289 ePd 52 45.20 0.0
eS 52 50.00
RTCV 0.39 234 eP 52 50.20 -0.7
RTLL 0.40 319 ePd 52 50.00 -0.9
RTBS 1.10 268 e(P) 53 04.40 1.0
RTRS 1.83 322 iPc 53 15.10 0.6
S.D. = 1.1 on 5 of 5 obs.

? AUG 18, 1990 00h 33m 28.52±0.85s
26.420 S ±6.5km 27.469 E ±8.7km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.4 (PRE).

PRY 0.51 180 eP 33 39.00 0.3
BPI 0.56 64 eP 33 40.50 0.7
S 33 48.00
KSR 0.75 317 eP 33 44.00 0.2
S 33 54.50
SLR 1.00 47 eP 33 47.20 -0.8
S 33 59.60
EVA 1.44 94 eP 34 25.50 30.0X
S 34 43.00
SEK 1.90 176 eP 34 01.60 -0.5
S 34 25.30
S.D. = 0.9 on 5 of 6 obs.

* AUG 18, 1990 01h 04m 59.41±0.80s
32.370 S ±11.5km 178.936 W ±17.5km
DEPTH = 33.0km (normal)
4.9mb (3 obs.)
SOUTH OF KERMADEC ISLANDS (179)

PUZ 6.14 201 eP 06 28.90 -1.3
eS 07 36.90
NOZ 6.70 201 eP 06 38.80 0.7
ASPA 42.25 270 eP 12 51.30 -0.1
0.6s 15.00nm 4.9mb
WRA 43.41 275 Pc 13 00.80 -0.1
0.6s 15.20nm 4.9mb
WB5 43.42 275 iPc 13 01.10 0.2

SPA 57.80 180 iPc 14 50.20 0.4
0.8s 5.00nm 4.6mb
KVN 90.76 43 P 17 59.90 -0.6
SUF 145.69 340 iPKP 24 33.40 -1.8
0.6s 8.80nm
BCAO 147.75 214 iPKPc 24 41.10 1.0
0.6s 8.00nm
NUR 147.86 338 iPKP 24 40.20 1.4
0.7s 14.70nm
NAO 150.82 350 PKP 24 47.60 4.2X
0.7s 4.20nm
HFS 150.99 347 ePKP 24 47.20 3.6X
0.7s 8.10nm
S.D. = 1.1 on 10 of 12 obs.

? AUG 18, 1990 01h 56m 28.22±10.52s
44.104 N ±69.9km 6.516 E ±46.4km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.0 (LDG).

FRF 0.55 170 Pg 56 39.50 0.1
Sg 56 50.20
LRG 0.66 190 Pg 56 41.50 0.2
Sg 56 51.20
SBF 0.71 110 Pg 56 42.20 0.0
Sg 56 55.20
LMR 0.77 180 Pg 56 43.00 -0.2
S.D. = 0.3 on 4 of 4 obs.

% AUG 18, 1990 01h 56m 39.24±1.23s
48.120 N ±18.8km 5.784 E ±6.5km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.1 (LDG).

HAU 0.40 107 Pg 56 46.90 -0.4
Sg 56 52.60
BSF 0.74 113 Pg 56 54.00 0.2
Sg 57 03.70
CDF 1.04 73 Pg 57 09.10 0.2
Sg 57 13.60
LOR 1.55 237 Pg 57 06.10 -0.9
Sg 57 25.30
LBF 1.67 228 Pg 57 08.40 -0.3
Sg 57 29.10
SSF 1.87 236 Pg 57 12.00 0.4
Sg 57 35.40
SMF 1.98 223 Pg 57 13.90 0.7
Sg 57 39.10
S.D. = 0.7 on 7 of 7 obs.

AUG 18, 1990 02h 56m 10.45±0.97s
15.126 N ±3.2km 60.467 W ±11.1km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 3.8 (FDF). MD 3.6 (TRN). Felt
(11) on Martinique.

CRM 0.57 230 iPd 56 22.10 0.0
MVM 0.70 216 iPd 56 24.23 0.3
FDF 0.77 240 Pd 56 24.56 -0.3
S 56 34.10
DBCT 0.87 280 eP 56 26.35 0.0
DPMT 0.90 279 eP 56 26.10 -0.6
eS 56 36.80
BBL 1.05 292 iPd 56 29.05 0.1
S 56 37.00
SLW 1.19 203 iP 56 30.76 -0.1
SFG 1.32 328 ePc 56 33.03 0.3
SLB 1.41 203 iP 56 33.98 -0.1
DOG 1.43 309 eP 56 34.75 0.4
S 56 50.10
PAG 1.47 308 eP 56 35.19 0.2
S 56 51.70
SOA 1.86 201 eP 56 40.90 0.3
eS 57 02.84
SVB 1.99 203 eP 56 42.34 -0.2
MGH 2.31 314 eP 56 47.04 0.0
S 57 15.00
8PA 2.33 325 iP 56 47.16 -0.1
CPB 2.02 333 eP 56 53.36 -0.8
NEV 2.84 315 iPc 56 54.96 0.4
S 57 26.50
S.D. = 0.4 on 17 of 17 obs.

* AUG 18, 1990 03h 33m 05.22±1.16s
31.680 S ±18.8km 68.889 W ±10.1km
DEPTH = 33.0km (normal)
SAN JUAN PROVINCE, ARGENTINA (137)

ZON 0.22 53 iPc 33 11.50 -0.7
RTCV 0.35 121 ePd 33 12.70 -1.0
RTBS 0.48 272 ePd 33 15.80 0.3
RTLL 0.50 46 ePc 33 15.20 -0.7
CFA 0.56 83 ePd 33 18.80 2.1
S 33 25.00
MDZ 1.20 178 eP 33 34.60 8.8X
RTRS 1.58 342 ePd 33 36.00 4.7X
S.D. = 1.8 on 5 of 7 obs.

* AUG 18, 1990 03h 35m 02.66±0.86s
8.398 S ±14.3km 118.115 E ±16.7km
DEPTH = 33.0km (normal)
4.8mb (4 obs.)
SUNBAWA ISLAND REGION (285)

MBL 12.80 173 eP 38 04.50 -0.6
eS 40 25.00
WB5 19.44 128 eP 39 28.00 -1.5
e 39 34.20
WRA 19.45 128 Pc 39 30.20 0.5
1.0s 9.40nm 4.0mb
ASPA 21.43 137 iPc 39 50.40 0.2
0.6s 24.00nm 4.8mb
eS 43 48.80
QIS 24.02 123 iPc 40 16.00 0.3
STK 31.97 140 eP 41 29.10 1.1
1.8s 25.00nm 4.8mb
LZH 46.24 344 eP 43 26.50 -0.4
BUL 86.69 250 iPc 47 45.50 0.3
0.9s 5.46nm 4.8mb
CNCB 154.24 166 PKP 55 04.00 10.0X
LPB 154.48 166 (PKP) 55 00.00 5.9X
ZOB0 154.73 166 ePKP 55 10.00 15.4X
S.D. = 0.9 on 8 of 11 obs.

? AUG 18, 1990 04h 16m 24.80±1.05s
31.643 S ±10.3km 117.049 E ±8.3km
DEPTH = 10.0km (geophysicist)
WESTERN AUSTRALIA (590)

KLB 0.61 85 iPd 16 37.10 0.0
iS 16 44.80
MUN 0.79 245 iPd 16 40.20 0.0
iS 16 50.20
BAL 1.07 344 iPd 16 45.30 0.3
iS 16 58.60
MRWA 2.58 339 eP 17 07.00 -0.3
eS 17 38.30
S.D. = 0.4 on 4 of 4 obs.

& AUG 18, 1990 04h 18m 09.98s
60.040 N 140.778 W
DEPTH = 2.8km
SOUTHEASTERN ALASKA (19)
<AGS-P>.

PCA 0.27 78 eP 18 16.07 0.7
eS 18 21.11
BCPM 0.58 98 iP 18 21.49 -0.1
eS 18 32.11
YAH 0.58 304 iP 18 21.85 0.2
eS 18 31.70
YKU 0.72 132 eP 18 24.96 0.6
eS 18 36.16
PNL 0.79 118 iP 18 24.95 -0.8
eS 18 36.60
HQN 1.13 121 eP 18 30.08 -1.7
iS 18 46.61
TGL 1.25 306 eP 18 32.40 -1.5
eS 18 51.82
BALM 1.26 323 iP 18 32.11 -2.1
eS 18 50.98
HYT 1.80 63 P 18 41.40 -1.0
GLB 2.05 315 iP 18 44.54 -1.3
eS 19 12.31
KLU 2.91 302 eP 18 56.35 -1.9
VLZ 2.95 294 eP 18 56.55 -2.1
VZW 3.03 292 iP 18 57.80 -2.0
TOA 3.34 311 eP 19 03.51 -0.7
DOT 3.94 338 eP 19 11.62 -1.1
DWY 4.08 8 P 19 13.10 -1.5

SML 4.09 299 eP 19 13.14 -1.7
 SEW 4.35 275 eP 19 16.09 -2.3
 PLRM 4.38 294 eP 19 18.51 -0.3
 PMS 4.49 289 eP 19 18.92 -1.6
 SLKM 4.73 280 eP 19 20.70 -3.2
 CNPM 5.31 269 iP 19 30.36 -1.8

22 obs. associated

& AUG 18, 1990 04h 29m 43.83s
 64.047 N 150.188 W

DEPTH = 16.9km

CENTRAL ALASKA

<AGS-P>

KTH 0.59 214 eP 29 55.34 -0.1
 MCK 0.64 119 iP 29 55.99 -0.3
 WRH 1.01 64 eP 30 02.01 -0.5
 HUR 1.10 167 eP 30 05.52 1.5
 CCB 1.20 59 eP 30 04.80 -0.9
 FBA 1.35 49 eP 30 07.05 -0.0
 HDA 1.46 74 eP 30 00.75 -0.7
 GLM 1.54 51 eP 30 11.11 0.5
 CUT 1.65 181 eP 30 13.95 1.8
 SKT 2.16 197 eP 30 20.72 1.1
 GH0 2.36 165 eP 30 22.73 0.3
 SML 2.40 158 eP 30 24.25 1.2
 PWA 2.41 176 eP 30 24.53 1.5
 IMA 2.51 325 eP 30 24.26 -0.4
 PLRM 2.51 168 eP 30 26.87 2.3
 SUA 2.61 186 eP 30 29.95 3.9
 TOA 2.67 135 eP 30 30.10 3.2
 NCG 2.80 200 eP 30 31.07 2.2
 PMS 2.83 174 iP 30 32.08 3.0
 KLU 3.23 141 eP 30 37.01 2.2

20 obs. associated

AUG 18, 1990 05h 30m 48.94 ± 0.44s

6.851 N ± 5.6km 73.078 W ± 6.0km

DEPTH = 157.9 ± 5.1 km

4.7mb (5 obs.)

NORTHERN COLOMBIA

BMG 0.22 1 eP 31 11.00 -0.8
 FUO 1.52 206 eP 31 19.00 -1.0
 BOG 2.42 204 iPc 31 32.00 1.7
 SDV 3.15 50 iPnd 31 41.20 1.9
 TOV 4.37 48 iPnd 31 56.20 1.2
 FISA 5.74 40 iP 32 13.00 -0.2
 MORO 6.17 49 iP 32 19.20 0.2
 UPA 6.74 289 (P) 32 24.00 -2.5
 OLLA 6.96 63 iP 32 29.10 -0.6
 PSO 7.04 217 eP 32 32.00 1.0
 CAR 7.08 59 eP 32 31.70 0.4
 LLAV 7.17 59 iP 32 32.00 -0.5
 GUAN 7.97 67 iP 32 42.10 -1.1
 ZOBO 23.49 168 P 35 47.00 0.7
 LPB 23.75 168 P 35 49.00 0.4
 CNCB 24.04 168 P 35 52.00 0.5
 CCH 25.03 164 P 36 00.80 0.3
 SIV 25.62 152 P 36 04.00 -1.6
 ALO 41.52 317 e(P) 38 23.00 0.5
 SCH 48.10 5 eP 39 15.00 0.7
 KVN 51.62 315 P 39 41.60 0.0
 SES 53.69 331 eP 39 57.00 0.5
 PNT 57.55 326 eP 40 24.00 -0.1
 YKA 63.25 340 eP 41 02.00 -0.4
 TIC 67.53 86 P 41 29.30 -1.4
 LIC 67.56 86 P 41 29.50 -1.4
 KIC 67.83 86 P 41 31.40 -1.2

INK 0.6s 7.50nm 4.7mb
 MBC 73.01 340 iPc 42 03.20 0.5
 NAO 73.78 350 eP 42 08.50 1.4
 0.6s 13.00nm 4.8mb
 81.09 30 P 42 48.40 0.9
 0.7s 2.40nm 4.0mb

WRA 150.39 241 PKPc 50 24.10 5.8X

0.4s 1.10nm

WB5 150.39 241 ePKP 50 23.80 5.5X

S.D. = 1.1 on 30 of 32 obs.

? AUG 18, 1990 06h 44m 12.97 ± 5.15s

47.159 N ± 10.4km 2.557 W ± 45.9km

DEPTH = 10.0km (geophysicist)

FRANCE (538)

ML 2.6 (LDG).

LPF 1.35 49 Pg 44 38.60 0.9
 GRR 1.68 42 Pn 44 42.00 -0.5
 MFF 1.75 108 Pg 44 45.30 1.8
 FLN 2.13 40 Pn 44 49.50 0.5
 LDF 2.18 48 Pn 44 49.00 -0.8
 RJF 3.38 122 Pn 45 07.20 0.3
 TCF 3.39 103 Pn 45 06.40 -0.6
 MAF 3.65 103 Pn 45 10.00 -0.7
 BGF 3.76 97 Pn 45 11.60 -0.6
 CAF 3.92 123 Pn 45 14.00 -0.5
 SSF 4.14 89 Pg 45 29.60 12.0X
 S.D. = 1.0 on 10 of 11 obs.

? AUG 18, 1990 07h 00m 22.53 ± 10.42s

37.426 N ± 50.6km 20.446 E ± 74.3km

DEPTH = 10.0km (geophysicist)

IONIAN SEA (399)

MD 3.1 (ATH).

VLS 0.76 9 ePg 00 36.80 -0.6
 ITM 1.21 101 ePg 00 45.00 0.0
 EVR 1.84 35 ePn 00 55.50 1.1
 AGG 2.18 42 ePc 00 59.40 0.1
 NEO 2.88 48 ePn 01 08.00 -1.3
 LIT 3.11 30 ePc 01 13.10 0.5
 OHR 3.69 4 eP 01 27.20 6.3X
 S.D. = 1.1 on 6 of 7 obs.

? AUG 18, 1990 07h 00m 39.21 ± 1.92s

31.765 S ± 25.2km 69.423 W ± 22.7km

DEPTH = 120.0km (geophysicist)

SAN JUAN PROVINCE, ARGENTINA (137)

RTBS 0.11 346 ePc 00 56.00 0.0
 RTLL 0.92 62 ePd 01 00.60 -0.2
 CFA 1.02 81 ePd 01 02.00 0.2
 RTRS 1.59 359 iPd 01 08.10 0.1
 S.D. = 0.3 on 4 of 4 obs.

* AUG 18, 1990 07h 51m 08.36 ± 0.63s

11.204 S ± 7.8km 161.845 E ± 10.6km

DEPTH = 33.0km (normal)

4.7mb (6 obs.)

SOLOMON ISLANDS (193)

HNR 2.57 313 iP 51 49.00 0.5
 DZM 11.67 158 iPc 53 55.80 0.1
 CTA 17.41 238 iPd 55 12.00 1.5
 BRS 18.22 207 eP 55 20.00 -0.5
 RMO 19.58 217 iPc 55 37.40 0.6

DIS 0.9s 246.00nm 5.5mb
 CMS 23.30 244 iPc 56 15.00 0.6
 BWA 25.03 214 eP 56 32.00 0.9
 CAN 26.16 206 eP 56 36.10 -5.5X
 STK 26.70 204 eP 56 46.70 0.2
 27.80 219 iPd 56 56.80 0.3
 0.9s 5.00nm 4.2mb

WB5 27.81 249 eP 56 55.80 -1.0

WRA 27.85 248 Pd 56 56.60 -0.5

1.0s 12.60nm 4.6mb

ASPA 29.33 241 iPc 57 08.90 -1.6

0.9s 11.00nm 4.6mb

Z 25s 0.29um 3.8mszX

LR 07 00.30

WARB 36.38 241 iPd 58 01.70 -10.0X

CHTO 68.81 295 P 02 11.80 -0.2

PKI 83.37 300 P 03 34.20 -0.2

KKN 83.54 300 P 03 35.60 0.4

DMN 83.64 300 P 03 36.60 0.9

GKN 84.15 300 P 03 37.90 -0.2

0.8s 26.00nm 5.5mb

KVN 89.38 50 P 04 05.00 1.5

BUL 124.43 236 iPKPc 10 06.10 -0.7

0.9s 4.20nm

BCAO 143.06 262 iPKPd 10 39.00 -2.7

0.4s 13.00nm

PDCR 148.55 138 ePKP 10 50.80 0.1

S.D. = 1.0 on 21 of 23 obs.

& AUG 18, 1990 08h 03m 28.11s

58.224 N 142.728 W

DEPTH = 10.0km (geophysicist)

4.5mb (1 obs.)

GULF OF ALASKA (15)

<AGS-P>

YKU 2.05 48 iP 03 58.50 -4.5
 YAH 2.20 13 iP 04 00.47 -5.0
 MID 2.23 304 eP 04 01.29 -4.4
 PNL 2.25 49 iP 04 00.63 -5.4
 PCA 2.27 33 eP 04 01.08 -5.2
 HQN 2.35 57 iP 04 01.90 -5.5
 BCPM 2.36 41 iP 04 02.10 -5.4
 TGL 2.54 359 eP 04 04.70 -5.4
 BALM 2.83 4 iP 04 08.96 -5.3
 GLB 3.27 351 eP 04 14.86 -5.7
 VLZ 3.44 329 eP 04 16.94 -5.8
 VZW 3.44 327 eP 04 17.04 -5.9
 KLU 3.65 335 eP 04 20.27 -5.7
 HYT 3.73 43 P 04 21.80 -5.2
 SEW 3.94 301 eP 04 24.06 -5.8
 SIT 4.15 103 eP 04 25.82 -7.0
 TOA 4.26 338 eP 04 29.14 -5.3
 SCM 4.29 329 eP 04 29.53 -5.5
 SLKM 4.47 304 eP 04 31.09 -6.3
 SML 4.56 324 iP 04 32.92 -5.9
 PMS 4.60 314 eP 04 34.02 -5.2
 CNPM 4.60 290 eP 04 34.84 -4.5
 PLRM 4.67 319 iP 04 34.86 -5.4
 GH0 4.73 321 eP 04 36.03 -5.1
 >NNL 4.78 296 eP 04 38.38 -3.4
 HOM 4.84 291 eP 04 37.46 -5.2
 PWA 4.97 317 iP 04 40.28 -4.2
 RDT 5.48 300 eP 04 46.36 -5.4
 SPU 5.58 306 eP 04 46.80 -6.3
 CUT 5.62 321 eP 04 49.47 -4.2
 DWY 6.06 14 P 04 54.20 -5.7
 SES 19.92 99 eP 07 59.00 -3.6
 FFC 22.53 81 eP 08 26.00 -3.0
 0.8s 13.00nm 4.5mb
 33 obs. associated

& AUG 18, 1990 09h 35m 52.46s

56.981 N 142.800 W

DEPTH = 10.0km (geophysicist)

GULF OF ALASKA (15)

<AGS-P>

HQN 3.23 38 eP 36 38.45 -5.8

PNL 3.24 32 eP 36 38.75 -5.6

18d 09h

PCA 3.40 22 eP 36 41.22 -5.4
 BCPM 3.41 28 eP 36 41.10 -5.7
 YAH 3.44 9 eP 36 41.49 -5.8
 eS 37 19.61
 5 obs. associated

AUG 18, 1990 09h 51m 40.78 ± 0.22s
 37.004 N ± 5.2km 56.131 E ± 3.0km
 DEPTH = 13.0km (4 depth phases)
 4.8mb (34 obs.) 4.6Msz (3 obs.)

IRAN (348)
 Felt at Bajnurd and in the
 Gorgan area.

MHI 2.79 104 iPnc 52 27.50 1.4
 0.5s 2380.28nm
 eSn 53 05.00
 KER 7.81 253 eP 53 39.00 2.1
 TAB 7.86 281 eP 53 37.00 -0.7
 QUE 11.29 124 eP 54 25.30 0.3
 eS 58 00.40
 MJMA 14.45 223 eP 55 05.30 -1.7
 RYD 14.71 216 eP 55 09.00 -1.4
 OASM 15.27 228 eP 55 16.50 -1.2
 KSH 15.79 75 P 55 20.50 -3.9X
 UQSK 16.20 230 eP 55 28.50 -1.3
 BHL 16.97 266 P 55 42.00 2.6
 S 02 34.00

AFIF 17.00 224 eP 55 42.50 2.6
 ATZ 17.61 262 eP 55 54.60 7.3X
 KAS 17.86 291 eP 55 54.50 3.9X
 BBTk 18.52 286 eP 56 00.00 1.3
 NOH 18.66 256 eP 56 01.40 1.0
 PRNI 18.78 255 eP 56 02.60 0.7
 NDI 19.54 109 iPc 56 09.50 -1.4
 1.0s 60.00nm 4.8mb
 GPA 20.41 287 eP 56 19.60 -0.5
 ALT 20.58 284 eP 56 21.30 -0.7
 ELL 20.96 277 eP 56 26.20 0.2
 IZI 21.05 287 eP 56 26.00 -0.8
 HLW 21.85 258 eP 56 40.00 5.2X
 CTT 21.86 289 eP 56 35.70 0.8
 ISR 23.64 299 eP 56 59.50 7.1X
 VRI 23.65 301 eP 56 54.00 1.6
 ALN 23.66 289 iPc 56 57.60 5.1X
 BUC1 23.89 297 ePc 57 00.00 5.3X
 MLR 24.12 300 ePc 57 00.00 2.9
 WMO 24.88 64 P 57 05.00 0.6

Z 12s 1.40um 4.7MszX
 E 10s 0.90um
 OUR 25.25 287 ePc 57 08.10 0.3
 GKN 25.59 102 P 57 11.80 0.4
 KNT 26.04 289 ePc 57 19.40 4.1X
 DMN 26.14 103 P 57 17.10 0.5
 KKN 26.19 102 P 57 17.20 0.2
 VAY 26.28 290 eP 57 18.00 0.5
 e 57 21.00 11km
 PKI 26.39 102 P 57 19.20 0.2
 LIT 26.40 287 ePc 57 18.90 0.3
 GUN 26.60 101 P 57 21.20 0.2
 AGG 26.62 285 ePc 57 24.30 3.6X
 SKO 27.11 291 eP 57 27.70 2.6
 1.0s 25.00nm 4.9mb
 Z 16s 0.59um 4.2MszX
 N 14s 0.57um
 E 16s 0.70um
 i 57 28.80 4kmX
 e 57 42.80
 e 01 26.00
 eS 02 19.00
 LR 09 53.00

HYB 27.77 129 eP 57 31.00 -0.4
 SPC 28.62 307 eP 57 37.60 -1.3
 KRA 29.00 308 eP 57 41.50 -0.6
 e 57 45.70 15km
 GBA 30.09 135 Pd 57 51.70 -0.4
 0.8s 12.50nm 4.8mb
 ZST 30.52 304 eP 57 53.40 -2.2
 NUR 30.84 309 eP 57 58.00 -0.3
 KSP 31.44 309 eP 58 07.80 4.0X
 SUF 31.64 334 eP 58 06.00 0.7
 SGO 31.82 289 P 58 12.50 5.4X
 DUI 32.34 291 P 58 15.50 3.7X
 PRU 32.41 307 eP 58 14.80 2.5
 TRI 32.65 299 P 58 18.00 3.7X

BRG 32.91 308 eP 58 17.50 0.9
 1.4s 36.00nm 5.1mb
 KHC 32.94 305 P 58 21.00 4.1X
 1.4s 10.00nm 4.6mb
 AZI 33.06 292 P 58 22.50 4.5X
 BHG 33.31 303 eP 58 20.00 -0.1
 FVI 33.34 301 P 58 22.00 1.7
 UPP 33.54 325 iP 58 21.10 -0.8
 i 58 25.00 13km
 CLL 33.57 309 iP 58 25.70 3.4X
 1.5s 17.00nm 4.8mb
 e 59 33.00 349kmX
 SFI 34.06 296 P 58 32.00 5.4X
 PGD 34.16 296 P 58 31.00 3.3X
 GTA 34.16 72 Pc 58 28.00 0.2
 1.0s 20.00nm 5.0mb
 MOX 34.35 308 eP 58 33.50 4.4X
 SOTA 34.43 302 eP 58 29.00 -0.9
 1.5s 77.50nm 5.4mb
 i 58 33.00 14km
 GRF 34.52 306 eP 58 32.00 1.4
 SOD 34.69 340 iP 58 31.60 -0.2
 SAL 34.92 299 P 58 40.00 6.0X
 BDI 34.96 296 P 58 38.00 3.5X
 OSS 35.16 301 ePc 58 35.30 -0.9
 HFS 35.46 324 eP 58 36.80 -1.6
 0.8s 20.50nm 5.1mb
 Z 17s 0.37um 4.2MszX
 LR 13 44.00

MDI 35.48 299 P 58 42.00 3.2X
 VDL 35.63 300 ePc 58 39.50 -0.8
 LLS 35.94 301 ePc 58 41.30 -1.6
 TMA 36.05 300 ePc 58 42.60 -1.3
 KEV 36.37 343 iP 58 46.00 0.0
 0.7s 12.00nm 4.8mb
 NAO 37.03 325 P 58 50.00 -1.6
 1.1s 22.80nm 4.9mb
 DIX 37.07 300 ePc 58 51.50 -1.0
 CDF 37.08 304 eP 58 51.20 -1.1
 0.8s 8.05nm 4.6mb
 DOI 37.32 297 P 58 58.50 4.1X
 LPG 37.57 299 eP 58 56.10 -0.7
 1.2s 14.90nm 4.6mb
 LPL 37.59 299 eP 58 56.20 -0.6
 1.1s 14.65nm 4.7mb
 BNI 37.67 298 P 59 00.00 2.6
 LZH 38.03 77 iPc 59 01.50 1.0
 1.5s 42.00nm 5.0mb
 Z 25s 0.80um 4.4MszX
 LBF 39.37 302 eP 59 10.90 -0.6
 0.9s 11.45nm 4.6mb
 LOR 39.43 302 eP 59 11.10 -0.9
 0.8s 6.70nm 4.4mb
 Z 20s 0.13um 3.7Msz
 SMF 39.49 301 eP 59 12.30 -0.2
 1.2s 29.75nm 4.8mb
 CD2 39.64 84 iPd 59 15.00 1.0
 1.0s 70.00nm 5.3mb
 SSF 39.68 302 eP 59 12.90 -1.2
 1.0s 13.00nm 4.6mb
 AVF 39.81 301 eP 59 14.80 -0.3
 1.0s 21.00nm 4.8mb
 BGF 40.18 301 eP 59 17.80 -0.4
 1.0s 14.00nm 4.6mb
 MAF 40.41 300 eP 59 20.30 0.2
 1.0s 24.00nm 4.9mb
 TCF 40.65 301 eP 59 22.00 -0.1
 1.2s 28.25nm 4.9mb
 LSF 41.12 301 eP 59 25.70 -0.2
 0.9s 10.65nm 4.6mb
 KMI 41.27 93 Pc 59 28.00 0.4
 1.0s 200.00nm 5.8mb
 CHG 41.55 104 iPc 59 29.90 0.2
 0.9s 37.82nm 5.1mb

BTO 41.61 68 eP 59 30.00 0.0
 N 15s 0.90um
 E 15s 1.70um
 BDT 42.51 106 eP 59 37.00 -0.5
 1.0s 103.50nm 5.5mb
 XAN 42.62 78 iPd 59 39.00 0.7
 HHC 42.69 67 eP 59 40.00 1.0
 EKA 43.50 314 P 59 45.00 -0.2
 1.9s 40.60nm 4.9mb
 GYA 43.80 89 P 59 48.80 0.6
 TIY 44.17 71 eP 59 51.00 0.1
 Z 16s 0.60um 4.6MszX

N 14s 0.60um
 BJI 46.30 67 P 00 08.00 0.2
 1.2s 16.00nm 4.9mb
 Z 20s 0.90um 4.7Msz
 E 13s 0.45um
 TOL 46.44 293 eP 00 12.00 3.0X
 BCAO 47.28 236 iPc 00 16.00 0.2
 0.7s 14.00nm 5.1mb
 IFR 49.39 285 iPc 00 36.50 4.3X
 QIZ 50.03 96 eP 00 36.80 -0.3
 CN2 51.82 60 P 00 49.60 -0.8
 PP 00 54.00
 SSE 53.30 76 P 01 01.00 -0.6
 1.0s 19.00nm 5.0mb
 Z 20s 1.40um 5.0Msz
 BUL 62.49 209 eP 02 03.00 -2.6
 KIC 63.05 257 P 02 11.40 1.3
 MAT 63.63 63 (P) 02 10.00 -3.7X
 1.1s 8.86nm 4.9mb
 INK 74.76 4 eP 03 28.00 6.4X
 FBA 76.71 10 P 03 32.40 -0.4
 EDM 89.68 354 eP 04 38.50 -1.1
 WRA 92.83 113 Pc 04 53.20 -1.2
 0.7s 2.00nm 4.6mb
 SPA 126.82 180 ePKP 10 44.00 -0.9
 0.9s 7.73nm
 S.D. = 1.2 on 90 of 117 obs.

& AUG 18, 1990 10h 26m 58.43s
 59.799 N 152.626 W
 DEPTH = 94.5km
 SOUTHERN ALASKA (2)
 <AGS-P>.

HOM 0.52 105 eP 27 13.48 -0.5
 eS 27 24.98
 XLV 0.57 127 eP 27 13.07 -1.4
 AUE 0.58 221 iP 27 13.78 -0.7
 AUI 0.62 222 iP 27 14.02 -0.8
 RED 0.63 353 iP 27 14.21 -0.8
 eS 27 26.35
 >NNL 0.71 69 iP 27 15.97 0.3
 CNPM 0.76 111 iP 27 15.39 -0.8
 eS 27 27.68
 RDT 0.79 8 iP 27 15.63 -0.9
 eS 27 28.89
 PDB 0.79 270 iP 27 15.60 -0.9
 iS 27 28.55
 BRLK 0.88 92 eP 27 16.57 -0.9
 eS 27 31.29
 CDD 1.02 211 eP 27 17.81 -1.1
 eS 27 32.45
 MCNL 1.07 236 iP 27 18.39 -1.1
 eS 27 33.21
 NKA 1.17 36 eP 27 21.85 1.1
 SHU 1.18 173 iP 27 20.06 -0.8
 eS 27 36.31
 SLKM 1.40 58 eP 27 22.52 -1.0
 CKL 1.41 6 iP 27 23.43 -0.3
 eS 27 41.47
 SPU 1.42 11 iP 27 23.39 -0.4
 BGL 1.47 4 eP 27 24.36 -0.2
 CRP 1.49 9 eP 27 24.64 -0.2
 CGLM 1.54 11 iP 27 25.25 -0.2
 NCG 1.63 8 iP 27 26.30 -0.2
 SEW 1.63 78 eP 27 25.41 -1.0
 SUA 1.91 28 eP 27 30.19 -0.1
 PMS 2.10 45 eP 27 32.23 -0.4
 SKT 2.25 13 eP 27 34.20 -0.5
 PWA 2.30 35 eP 27 34.62 -0.6
 PLRM 2.49 42 eP 27 36.50 -1.3
 GHO 2.69 41 eP 27 39.53 -1.1
 SML 2.91 44 eP 27 42.27 -1.4
 VZW 3.26 65 eP 27 46.33 -2.2
 SCM 3.30 50 eP 27 46.55 -2.5
 VLZ 3.39 64 eP 27 48.51 -1.7

32 obs. associated

? AUG 18, 1990 10h 38m 34.57 ± 3.33s
 11.960 S ± 34.5km 124.783 E ± 13.2km
 DEPTH = 33.0km (normal)
 4.6mb (2 obs.)
 SOUTH OF TIMOR (293)
 KNA 5.40 135 eP 39 57.60 2.7
 0.2s 61.00nm 5.8mb X
 iS 40 59.60

MTN 6.26 99 iPd 40 08.50 1.4
 MBL 10.30 207 eP 41 02.50 -0.7
 0.2s 5.00nm 5.4mb X
 eS 42 51.00
 WB5 12.12 132 eP 41 26.60 -1.4
 eS 43 37.80
 WRA 12.14 132 Pc 41 27.40 -0.8
 0.7s 38.00nm 5.7mb X
 NANU 13.75 219 eP 41 50.00 0.5
 eS 44 14.00
 WARB 14.26 173 eP 41 56.00 -0.2
 eS 44 34.00
 ASPA 14.51 145 iPc 41 59.00 0.3
 0.5s 93.00nm 5.5mb X
 eS 44 32.00
 MEKA 15.72 201 eP 42 15.00 -0.3
 eS 45 01.00
 OIS 16.59 123 ePd 42 26.20 -0.2
 MRWA 19.02 204 eP 42 58.00 1.5
 0.3s 3.00nm 4.0mb
 eS 46 14.00
 COOL 19.13 190 eP 42 58.00 0.2
 CMS 27.47 138 eP 44 17.00 -2.8
 1.0s 49.00nm 5.1mb
 e 44 30.00

S.D. = 1.5 on 13 of 13 obs.

* AUG 18, 1990 10h 38m 51.63±1.34s
 11.225 S ± 7.9km 162.340 E ± 12.8km
 DEPTH = 24.0 ± 9.8 km
 4.9mb (4 obs.) 4.7Msz (1 obs.)
 SOLOMON ISLANDS (193)

HNR 2.95 307 iP 39 38.00 0.0
 iS 40 13.00
 DZM 11.48 161 iPd 41 37.20 -0.1
 iS 43 39.00
 PMG 15.05 275 eP 42 14.00 -10.6X
 CTA 17.81 238 iPc 42 59.80 0.1
 1.2s 137.50nm 5.0mb
 iS 46 33.00
 RMO 19.87 218 iPd 43 23.30 -0.8
 1.0s 225.00nm 5.4mb
 COO 21.56 205 iPc 43 41.10 -0.5
 BWA 26.36 207 eP 44 27.70 -0.2
 CAN 26.88 205 eP 44 33.00 0.4
 MAT 52.67 336 eP 48 07.00 0.7
 0.7s 3.42nm 4.4mb
 SPA 78.85 180 eP 50 55.80 1.6
 1.0s 10.00nm 4.8mb
 FBA 84.56 19 P 51 22.50 -1.3
 KVN 89.02 50 P 51 46.40 0.0
 ZOBO 123.09 118 PKP 57 50.00 0.6
 Z 20s 0.16um 4.7Msz
 LR 03 52.00
 SIV 129.24 121 PKP 58 00.00 -0.6
 BCAA 143.54 262 iPKPd 58 22.50 -4.7X
 0.4s 3.00nm
 S.D. = 0.8 on 13 of 15 obs.

* AUG 18, 1990 10h 47m 21.57±0.65s
 40.186 S ± 12.6km 77.773 E ± 16.0km
 DEPTH = 10.0km (geophysicist)
 4.7mb (3 obs.) 5.2Msz (1 obs.)
 MID-INDIAN RISE (429)

MAW 28.67 192 iP 53 19.60 -0.6
 BUL 46.31 281 iPc 55 51.10 1.6
 1.0s 10.00nm 4.8mb
 SPA 50.00 180 iPd 56 17.20 -0.6
 1.0s 25.00nm 5.1mb
 Z 20s 2.61um 5.2Msz
 WRA 52.05 85 Pd 56 34.40 0.7
 0.9s 2.60nm 4.2mb
 WB5 52.11 85 eP 56 35.20 1.1
 DMN 67.79 7 P 58 21.40 -0.5
 KKN 67.99 7 P 58 21.40 -1.7
 GUN 68.17 8 P 58 24.00 -0.3
 QUE 70.73 350 eP 58 40.20 0.3
 INK 147.15 21 ePKP 07 08.00 5.0X
 S.D. = 1.2 on 9 of 10 obs.

AUG 18, 1990 11h 07m 30.80±0.53s
 2.703 S ± 6.6km 76.658 W ± 8.2km
 DEPTH = 135.7km (2 depth phases)
 5.0mb (1 obs.)
 PERU-EQUADOR BORDER REGION (110)

ANGL 2.46 339 Pd 08 25.70 14.0X
 VC1 2.69 320 iPd 08 15.00 0.3
 OTO 3.11 323 iPd 08 20.60 0.5
 (S) 09 18.50
 OUR 3.13 323 eP 08 20.80 0.4
 GGP 3.17 322 Pd 08 20.60 -0.5
 YANA 3.20 323 eP 08 21.80 0.4
 COTA 3.45 331 P 08 25.00 0.3
 PT08 9.20 179 iPd 09 48.10 6.1X
 iS 11 23.00
 NNA 9.23 181 iPc 09 42.00 -0.1
 0.2s 208.33nm 6.5mb X
 iS 11 20.50
 PT10 9.32 182 iP 09 42.00 -1.2
 eS 11 23.50
 SDV 12.98 27 iPc 10 32.20 0.6
 FISA 15.67 28 eP 11 04.00 -1.6
 ZOBO 15.88 149 P 11 12.00 3.3X
 Z 20s 0.12um 4.7Msz
 LR 39 00.00
 OLLA 16.00 38 eP 11 11.00 1.3
 LPB 16.12 149 P 11 18.00 6.5X
 LLAV 16.36 37 iP 11 13.40 -0.7
 CNCB 16.41 149 P 11 20.00 4.8X
 GUAN 16.69 41 eP 11 16.00 -2.2
 CCH 17.87 145 P 11 37.20 4.4X
 SIV 20.24 132 iPd 12 00.00 2.5
 i 13 09.80
 ALO 46.73 326 eP 15 48.50 0.2
 ANMO 46.73 326 P 15 48.80 0.5
 iP 16 20.20 138km
 KVN 56.38 322 P 17 00.40 -0.1
 pP 17 32.00 134km
 LIC 72.07 83 P 18 43.20 0.6
 KIC 72.36 83 P 18 45.20 0.9
 INK 80.82 342 eP 19 31.00 0.7
 SPA 87.31 180 iPd 20 07.40 4.1X
 1.1s 20.24nm 5.0mb
 WRA 142.15 232 PKPc 26 46.00 -3.6X
 1.0s 4.10nm
 WB5 142.16 232 ePKP 26 46.80 -2.8
 GKN 149.15 34 PKP 27 07.00 5.9X
 KKN 149.67 33 PKP 27 08.00 6.1X
 PKI 149.91 33 PKP 27 08.40 5.9X
 S.D. = 1.3 on 21 of 32 obs.

? AUG 18, 1990 11h 18m 32.53±9.15s
 51.454 N ± 55.3km 16.292 E ± 60.8km
 DEPTH = 10.0km (geophysicist)
 POLAND (548)

KSP 0.61 180 iP 18 44.70 -0.2
 0.3s 48.00nm
 iS 18 53.50
 BRG 1.59 249 iPg 19 00.00 -0.7
 iSg 19 19.70
 PRU 1.84 218 Pg 19 05.00 0.6
 e 19 07.80
 Sn 19 21.00
 Sg 19 29.00
 CLL 2.07 267 ePg 19 08.00 0.3
 eSg 19 35.00
 KHC 2.90 218 ePg 19 06.50 -13.2X
 Sn 19 53.50
 Sg 20 02.00
 S.D. = 1.0 on 4 of 5 obs.

? AUG 18, 1990 12h 01m 41.46±7.41s
 39.338 N ± 49.8km 27.697 E ± 31.3km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

DST 0.77 69 iPn 01 56.50 0.0
 EDC 1.02 7 iPn 02 00.60 -0.1
 BNT 1.03 10 iPn 02 01.00 0.1
 KGT 1.15 345 iPn 02 03.00 0.0
 S.D. = 0.1 on 4 of 4 obs.

AUG 18, 1990 12h 54m 48.62±0.38s
 40.276 S ± 8.6km 78.301 E ± 8.0km
 DEPTH = 10.0km (geophysicist)
 5.0mb (10 obs.)
 MID-INDIAN RISE (429)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 11S, 24C
 Centroid Location:

Origin Time 12:54:56.9 0.6
 Lat 40.03S 0.06 Lon 78.05E 0.08
 Dep 15.0 FIX Half-duration 1.5
 Moment Tensor; Scale 10**16 Nm
 Mrr=-0.47 0.33 Mtt=-6.92 0.37
 Mff= 7.39 0.44 Mrt= 0.00 0.00
 Mrf= 0.00 0.00 Mtf=-0.25 0.38
 Principal Axes:
 T Vol= 7.39 Ptg= 0 Azm=269
 N -0.47 90 180
 P -6.92 0 179
 Best Double Couple: Mo=7.2*10**16
 NP1: Strike=314 Dip=90 Slip=-180
 NP2: 44 90 0

MAW 28.67 192 iPc 00 47.00 -0.2
 BFT 42.51 275 eP 02 50.50 4.5X
 SLR 43.82 274 iPc 03 05.00 8.3X
 1.0s 30.00nm 5.1mb
 KSR 44.81 272 eP 03 06.00 1.3
 BUL 46.72 280 iPd 03 18.00 -1.8
 1.0s 6.00nm 4.6mb
 ASPA 49.21 88 iPc 03 39.00 -0.1
 1.4s 25.00nm 5.0mb
 SPA 49.91 180 iPd 03 45.00 0.8
 1.1s 35.12nm 5.2mb
 STK 50.88 102 eP 03 50.40 -1.3
 1.3s 11.00nm 4.6mb
 WRA 51.65 84 Pd 03 58.00 0.3
 1.8s 54.50nm 5.2mb
 WB5 51.71 84 eP 03 58.00 -0.2
 OIS 55.32 88 ePd 04 24.70 -0.2
 LWI 58.57 297 e(P)d 04 48.40 0.2
 CHTO 61.85 22 (P) 05 10.20 -0.1
 PKI 67.82 7 P 05 48.00 -1.2
 DMN 67.83 7 P 05 48.60 -0.6
 KKN 68.03 7 P 05 50.20 -0.2
 GKN 68.18 6 P 05 50.20 -1.1
 1.0s 42.00nm 5.6mb
 GUN 68.20 7 P 05 51.40 -0.2
 BCAA 70.45 294 iPc 06 05.20 -0.1
 0.5s 7.00nm 5.0mb
 QUE 70.89 350 eP 06 08.00 0.1
 GYA 71.45 27 P 06 13.60 2.4
 CD2 74.66 23 eP 06 29.50 -0.4
 WHN 77.99 31 eP 06 49.00 0.5
 MAIO 78.14 345 eP 06 50.00 0.6
 XAN 79.17 26 P 06 55.00 0.0
 LZM 79.54 21 eP 06 59.00 1.9
 1.5s 28.00nm 5.0mb
 GTA 81.71 17 eP 07 08.00 -0.4
 1.2s 10.00nm 4.8mb
 WMO 84.14 7 P 07 21.00 0.2
 Z 24s 0.90um 5.1MszX
 PP 10 41.00
 eS 17 46.00
 PMR 144.39 37 e(PKP)14 24.80 -0.8
 0.9s 12.50nm
 INK 147.08 21 ePKP 14 33.00 3.1X
 KVN 167.30 90 (PKP) 14 56.00 0.4
 ALD 173.47 143 e(PKP)15 04.00 5.1X
 ANMO 173.48 143 e(PKP)15 05.50 6.6X
 1.2s 5.47nm
 S.D. = 0.9 on 28 of 33 obs.

AUG 18, 1990 13h 38m 17.39±1.00s
 26.979 N ± 5.2km 101.154 E ± 4.0km
 DEPTH = 12.3 ± 6.4 km
 5.0mb (44 obs.) 5.7Msz (3 obs.)
 YUNNAN PROVINCE, CHINA (318)

KMI 2.33 142 Pnd 38 59.00 2.6
 Sn 39 29.00
 CD2 4.53 30 iPnc 39 30.20 2.8
 Sn 40 23.00
 GYA 4.96 95 Pg 39 50.00 16.6X
 Z 10s 7.10um
 CHG 8.38 195 eP 40 27.00 5.5X
 LSA 9.22 289 P 40 32.80 -0.8
 LZM 9.36 14 P 40 38.50 3.3X
 2.5s 53.00nm 5.5mb
 Z 20s 1.70um 3.5MszX
 eS 42 20.00
 XAN 9.71 42 P 40 36.80 -3.1X
 S 42 22.20
 BDT 9.89 192 eP 40 46.30 4.0X
 OIZ 11.25 133 eP 41 01.00 0.0

18d 13h

GZH 11.71 107 eP 41 05.30 -1.9
 WHN 12.11 70 eP 41 11.20 -1.4
 GTA 12.45 355 eP 41 19.80 2.5
 0.9s 10.00nm 5.1mb
 Z 10s 1.72um 4.3MszX
 GUN 13.60 277 P 41 33.60 0.8
 PKI 14.02 276 P 41 36.20 -2.1
 0.6s 23.00nm 5.1mb
 KKN 14.13 277 P 41 38.60 -1.0
 DMN 14.28 276 P 41 40.20 -1.5
 TIY 14.32 39 eP 41 41.00 -0.9
 Z 13s 2.80um
 E 11s 2.10um
 S 44 13.50
 GKN 14.70 278 P 41 45.40 -1.6
 BTO 15.44 26 eP 41 58.30 1.7
 N 16s 4.00um
 E 16s 1.50um
 HHC 16.29 29 eP 42 06.40 -1.2
 N 10s 1.20um
 E 10s 0.50um
 SSE 17.99 72 eP 42 27.50 -1.3
 Z 12s 1.80um
 BJI 18.04 40 eP 42 28.50 -0.8
 2.0s 140.00nm 4.7mb
 Z 12s 1.81um 4.0MszX
 E 10s 0.65um
 SNG 19.70 182 eP 42 51.50 1.9
 WMO 20.02 331 P 42 53.00 0.1
 DL2 20.85 50 eP 43 02.50 1.1
 1.5s 200.00nm 5.3mb
 NDI 21.23 280 iP 43 05.50 0.1
 HYB 22.95 250 eP 43 26.50 3.8X
 SNY 23.60 45 Pd 43 28.30 -0.5
 KSH 24.37 307 P 43 41.50 5.1X
 CN2 25.82 43 eP 43 47.20 -2.8
 Z 14s 1.00um 4.5MszX
 GBA 25.86 244 Pd 43 51.90 1.3
 0.9s 16.10nm 4.7mb
 QUE 30.14 284 eP 44 30.20 0.6
 MAIO 36.43 295 iPd 45 26.00 2.1
 1.0s 10.00nm 4.6mb
 WB5 56.62 142 eP 48 01.60 -1.1
 WRA 56.66 142 Pd 48 02.20 -0.8
 0.8s 6.60nm 4.7mb
 PRNI 57.41 290 e(P) 48 07.00 -1.2
 SOD 59.45 334 iP 48 20.80 -1.2
 ASPA 59.46 145 iPc 48 21.80 -0.8
 1.5s 21.00nm 5.0mb
 KEV 59.48 337 iP 48 21.70 -0.4
 0.7s 13.30nm 5.2mb
 SUF 59.54 329 iP 48 22.00 -0.6
 0.6s 8.10nm 5.0mb
 OIS 60.17 138 eP 48 26.30 -1.2
 NUR 60.32 326 eP 48 28.00 0.0
 0.7s 10.70nm 5.1mb
 VRI 60.65 309 ePd 48 31.50 1.1
 0.8s 44.50 0.8
 UPP 63.88 326 iP 48 51.10 -0.7
 SPC 64.34 314 iP 48 55.10 -0.1
 VAY 64.54 305 eP 48 52.00 -4.4X
 48 55.80 0.8
 SKO 65.20 306 eP 49 00.30 -0.4
 BUD 65.51 312 eP 49 03.20 0.6
 HFS 65.77 327 eP 49 02.50 -1.5
 0.8s 19.20nm 5.3mb
 OHR 65.89 305 eP 49 02.00 -3.2X
 SRO 65.90 313 eP 49 06.00 0.9
 KSP 66.44 316 ePd 49 08.50 0.0
 1.0s 25.00nm 5.3mb
 ZST 66.59 314 eP 49 09.60 0.1
 NAO 66.99 328 P 49 10.30 -1.5
 0.8s 12.30nm 5.1mb
 PRU 67.75 316 Pd 49 17.50 0.7
 1.0s 14.50nm 5.1mb
 BRG 67.87 317 iP 49 18.40 0.8
 1.0s 20.00nm 5.3mb
 PTJ 67.96 311 eP 49 17.00 -1.4
 CLL 68.32 318 iPd 49 20.80 0.4
 1.1s 20.00nm 5.2mb
 KHC 68.59 315 P 49 23.40 1.3
 WET 69.02 315 eP 49 25.30 0.5
 1.0s 13.00nm 5.1mb
 MOX 69.36 317 eP 49 27.00 0.2
 BHG 69.45 314 iPd 49 28.30 0.9
 1.0s 36.00nm 5.5mb

TRI 69.49 312 P 49 27.50 -0.1
 FVI 69.86 313 P 49 29.00 -0.9
 GRF 69.89 316 ePd 49 31.40 1.3
 STK 70.08 144 iPd 49 31.10 -0.2
 RMO 70.18 135 eP 49 32.00 -0.1
 SOI 70.29 303 P 49 32.50 -0.1
 SOTA 70.69 314 eP 49 33.00 -2.1
 1.0s 29.50nm 5.4mb
 OGA 70.92 313 iPc 49 35.00
 0.8s 17.00nm 5.2mb
 MNS 71.30 309 P 49 37.50 -1.3
 PGD 71.46 310 P 49 38.50 -1.4
 OSS 71.55 313 ePc 49 40.20 -0.2
 WIT 71.56 320 eP 49 42.00 1.9
 WTS 71.77 320 eP 49 42.50 1.2
 0.9s 19.00nm 5.2mb
 VDL 72.06 313 ePc 49 43.50 0.0
 MDI 72.15 313 P 49 42.00 -1.7
 SLE 72.23 315 ePc 49 44.70 0.4
 ZLA 72.40 315 eP+ 49 45.80 0.5
 FEL 72.50 315 eP 49 44.62 -1.3
 TMA 72.58 313 ePc 49 46.90 0.4
 ENN 72.73 319 e(P) 49 48.00 1.0
 1.0s 9.00nm 4.8mb
 CDF 72.77 316 eP 49 47.20 -0.3
 1.1s 9.75nm 4.8mb
 MMK 73.19 313 ePc 49 51.10 0.9
 BSF 73.28 315 eP 49 49.80 -0.7
 1.0s 10.00nm 4.8mb
 HAU 73.49 316 eP 49 51.10 -0.5
 1.0s 8.00nm 4.7mb
 Z 21s 3.75um 5.6Msz
 DIX 73.54 314 ePc 49 53.60 1.4
 MBC 73.99 9 eP 49 54.00 0.0
 0.8s 14.00nm 5.0mb
 LPG 74.18 313 eP 49 56.10 0.1
 0.9s 16.40nm 5.1mb
 LPL 74.19 313 eP 49 56.00 0.0
 0.8s 14.80nm 5.1mb
 BNI 74.40 313 P 49 57.50 0.4
 LOR 75.33 316 eP 50 01.30 -1.0
 0.8s 5.35nm 4.6mb
 Z 20s 3.75um 5.7Msz
 L8F 75.37 315 eP 50 01.70 -0.8
 1.2s 14.90nm 4.9mb
 SMF 75.59 315 eP 50 03.20 -0.6
 1.2s 17.85nm 5.0mb
 SSF 75.63 316 eP 50 02.30 -1.7
 0.8s 6.70nm 4.8mb
 AVF 75.84 315 eP 50 04.60 -0.5
 1.2s 19.35nm 5.1mb
 EKA 75.86 325 P 50 05.70 0.6
 1.0s 11.20nm 4.9mb
 BGF 76.25 315 eP 50 06.60 -0.9
 1.1s 9.75nm 4.8mb
 MAF 76.57 315 eP 50 09.40 0.1
 1.2s 11.90nm 4.8mb
 TCF 76.77 315 eP 50 10.30 -0.1
 1.0s 8.00nm 4.8mb
 INK 76.88 18 eP 50 10.00 -0.5
 CAF 77.44 314 eP 50 13.30 -0.9
 1.0s 8.00nm 4.8mb
 RJF 77.63 315 eP 50 15.30 0.2
 0.8s 8.05nm 4.9mb
 Z 20s 4.25um 5.8Msz
 GRR 77.73 318 eP 50 15.20 -0.4
 0.8s 14.80nm 5.1mb
 BCAA 81.43 271 iPd 50 36.00 -0.2
 0.6s 9.00nm 5.0mb
 BUL 84.43 244 eP 50 50.80 -0.7
 0.9s 7.56nm 4.9mb
 SIV 160.20 300 PKP 58 18.20 0.0
 ZOBO 165.42 315 PKP 58 26.00 2.0
 LPB 165.60 314 (PKP) 58 26.00 2.1
 CNCB 165.72 313 PKP 58 25.00 0.8
 S.D. = 1.2 on 101 of 110 obs.

? AUG 18, 1990 13h 46m 27.56 ± 2.24s
 27.861 N ± 27.2km 16.418 W ± 10.1km
 DEPTH = 33.0km (normal)
 CANARY ISLANDS REGION (394)
 MD 3.0 (MDD).

CTFE 0.63 13 eP 46 40.00 0.0
 iS 46 47.10
 GGC 0.74 69 iP 46 41.90 0.3

TBT 1.55 302 eP 46 51.00
 eS 46 53.20 0.0
 47 08.20
 CFTV 2.13 74 eP 47 01.30 -0.3
 iS 47 24.90
 S.D. = 0.5 on 4 of 4 obs.

AUG 18, 1990 13h 55m 07.51 ± 0.26s
 40.229 S ± 7.7km 78.308 E ± 5.1km
 DEPTH = 10.0km (geophysicist)
 5.6mb (32 obs.) 6.0Msz (12 obs.)

MID-INDIAN RISE (429)
 Ms 6.0 (PAS)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 23S, 61C M.W.: 8S, 18C
 Centroid Location:
 Origin Time 13:55:16.3 0.2
 Lat 40.265 0.03 Lon 77.79E 0.03
 Dep 15.0 FIX Half-duration 4.7
 Moment Tensor: Scale 10**18 Nm
 Mrrr=-0.17 0.04 Mtt=-1.96 0.05
 Mff= 2.13 0.04 Mrt=-0.17 0.11
 Mrfr=-0.63 0.13 Mtr= 0.05 0.04
 Principal Axes:
 T Vol= 2.30 Plg=14 Azm= 91
 N -0.32 74 250
 P -1.97 5 0
 Best Double Couple: Mo=2.1*10**18
 NP1: Strike=135 Dip=76 Slip= 173
 NP2: 226 84 14

CRZF 20.16 243 iPc 59 46.00 1.4
 eS 03 30.00
 MAW 28.72 192 iPc- 01 05.00 -1.5
 0.9s 65.00nm 5.4mb
 MUN 31.52 87 eP 01 29.00 -2.8
 Z 20s 61.80um 6.3Msz
 N 20s 14.70um
 E 20s 47.10um
 NANU 36.01 72 eP 02 10.00 -0.6
 GRM 41.52 263 iP 03 00.20 3.6X
 1.3s 120.00nm 5.5mb
 Z 22s 31.70um 6.1Msz
 WARB 42.30 86 eP 03 03.00 0.0
 BFT 42.51 275 iP 03 03.50 -1.4
 1.5s 110.00nm 5.4mb
 DRV 42.72 149 eP 03 12.20 6.3X
 HVD 43.54 266 eP 03 30.00 16.8X
 1.5s 83.33nm
 BLF 43.72 268 eP 03 14.50 -0.2
 BPI 43.79 273 iP 03 14.00 -1.3
 PRY 43.82 271 iPc 03 16.00 0.4
 SLR 43.83 273 iPc 03 13.50 -2.1
 1.0s 70.00nm 5.4mb
 FRS 44.08 267 eP 03 17.00 -0.3
 BFS 44.37 271 iPc 03 18.50 -1.4
 1.0s 180.00nm 5.9mb
 PPI 44.40 33 ePd 03 24.10 4.1X
 KSR 44.82 272 iPc 03 21.00 -2.7
 1.0s 70.00nm 5.5mb
 KIM 44.97 268 iPd 03 24.50 -0.3
 1.7s 140.00nm 5.6mb
 BUL 46.72 280 iPd+ 03 36.20 -2.5
 1.0s 41.50nm 5.5mb
 CER 47.00 259 iP 03 37.20 -3.5X
 1.0s 140.00nm 6.0mb
 ADE 47.34 104 eP 03 45.00 1.6
 1.1s 78.48nm 5.7mb
 POF 48.35 264 iPc 03 50.00 -1.2
 0.6s 38.00nm 5.6mb
 ASPA 49.20 88 eP 03 57.40 -0.5
 1.8s 131.00nm 5.7mb
 BFD 49.24 108 eP 04 02.00 4.0X
 SPA 49.96 180 iPd 04 03.90 0.5
 1.1s 208.33nm 6.0mb
 KNA 49.99 76 eP 04 02.60 -1.4
 SBA 50.72 164 e(P) 04 09.00 0.2
 S 11 16.00
 STK 50.88 102 eP 04 09.40 -1.2
 1.1s 25.00nm 5.1mb
 Z 22s 430.00um 7.4MszX
 iS 11 31.10
 TOO 51.21 110 eP 04 14.70 1.6
 WRA 51.64 84 P 04 14.80 -1.8
 1.3s 39.70nm 5.2mb
 WB5 51.70 84 eP 04 15.30 -1.7

GBA	53.56	359 Pd	04 29.90	-0.8		Z	20s	9.30um	6.1MsZ		LR	49 34.00			
	1.2s	115.80nm		5.7mb		N	15s	2.40um				14 30.00	12.8X		
CMS	54.24	103 eP	04 36.00	0.3				S	17 40.00				6.4MsZ		
BWA	54.74	108 eP	04 41.10	1.7	HLW	82.23	320 eP-	07 30.00	-0.1		TTA	140.93	36 PKP	14 41.00	2.4
CAN	54.74	109 eP	04 40.00	0.6				eS	17 30.00			1.0s	7.50nm		
OIS	55.31	88 ePd	04 42.90	-0.8	TAB	83.25	335 eP-	07 36.00	0.6		IMA	141.23	31 PKP	14 35.00	-4.2X
HYB	57.35	0 iPc	04 58.00	-0.1	BHL	83.62	325 P	07 38.00	0.7		GDH	141.54	335 ePKP	14 50.00	10.6X
	1.2s	166.70nm		5.9mb				S	18 05.00				e	17 24.00	
		iS	13 00.00		TIY	83.64	27 eP	07 36.50	-0.8		FBA	143.93	31 iPKPc	14 41.30	-2.4
LWI	58.55	297 iPc	05 08.40	1.4		Z	24s	5.60um	5.9MsZ			0.9s	6.90nm		
POO	58.60	355 iPc	05 06.70	-0.2		E	27s	16.50um			PMR	144.35	37 ePKP	14 43.00	-1.4
	1.2s	175.00nm		6.0mb				S	18 00.00			1.5s	38.10nm		
RMO	59.00	100 eP	05 10.00	0.2				SS	23 30.00		TOA	145.55	36 ePKP	14 47.00	0.4
CTA	60.67	92 iPc+	05 21.20	-0.1	TIA	84.03	31 P	07 38.20	-1.0			1.0s	124.10nm		
	1.7s	153.85nm		5.9mb	WMO	84.09	7 P	07 40.00	0.6		INK	147.04	21 ePKP	14 49.00	0.3
		iS	13 40.00			Z	24s	18.20um	6.4MsZ			1.2s	132.00nm		
ARO	61.09	319 iPd	05 24.50	0.4		N	18s	8.20um					pP	15 10.00	
CHG	61.81	22 ePd	05 28.00	-0.9		E	20s	7.00um			FRB	149.46	331 ePKP	14 57.00	4.3X
	1.3s	33.65nm		5.4mb				PP	10 56.00		SCH	152.62	314 ePKP	15 05.00	7.3X
DAV	64.10	54 eP	05 47.00	2.8X				S	18 06.00		FHC	163.04	81 ePKP	15 11.20	0.7
OIZ	65.87	33 P	05 56.00	0.6				SS	23 32.00		WDC	164.11	82 ePKP	15 17.30	5.7X
	N 15s	4.30um			BTO	85.47	24 P	07 47.00	0.5		PNT	164.39	48 ePKP	15 17.00	5.4X
	E 15s	3.00um				N 19s	5.60um				PR1	164.54	99 ePKP	15 16.00	3.7X
PMG	67.85	84 eP	06 09.00	0.8		E 19s	2.40um			EDM	164.77	28 ePKP	15 14.00	2.2	
NDI	68.57	359 iPc	06 11.00	-1.3				SP	07 56.00				pP	16 08.00	
	1.2s	39.06nm		5.5mb				PP	11 08.30		CMB	165.32	93 ePKP	15 16.50	3.7X
KMI	68.88	24 Pc	06 15.50	0.8				S	18 16.00		PAS	165.54	110 ePKP	15 17.00	4.0X
	1.5s	100.00nm		5.8mb	HHC	86.18	25 P	07 50.20	0.2				eSKSP	30 10.00	
BCAO	Z 25s	9.70um		5.9MsZ		Z 26s	5.60um		5.8MsZ				eSS	40 36.00	
	70.43	294 iPd	06 24.30	0.2		N 15s	1.01um						eSSS	47 11.00	
	1.0s	95.00nm		5.9mb		E 20s	9.30um						eLR	12 09.00	
		id	06 30.00					SKS	18 12.00		FR1	165.55	97 ePKP	15 17.20	4.3X
LSA	7														

KEY 29.93 5 eP 53 58.00 -2.0
Z 20s 5.70um 5.2msz
BCAO 35.56 182 iPd 54 50.00 0.5
0.4s 3.00nm 4.5mb
S.D. = 1.4 on 101 of 111 obs.

* AUG 18, 1990 17h 23m 52.41 ± 0.58s
13.778 N ± 6.5km 144.607 E ± 14.4km
DEPTH = 115.3 ± 6.3 km
4.9mb (9 obs.)

MARIANA ISLANDS (216)

GUMO 0.31 127 iPd 24 09.60 -0.5
PJG 0.31 127 eP 24 09.80 -0.3
GUA 0.38 129 iPd 24 09.60 0.2
eS 24 21.90
KAKJ 22.68 351 eP 28 47.10 2.4
CHJJ 22.74 348 eP 28 43.90 -1.4
MAT 23.38 347 (P) 28 51.00 -0.6
0.6s 6.67nm 4.2mb
MTMJ 23.51 346 eP 28 53.50 0.5
NIJJ 23.89 349 eP 28 56.10 -0.4
SSE 27.57 313 iPc 29 32.00 1.5
0.8s 26.00nm 4.9mb
MTN 29.63 207 iPc 29 49.00 -0.1
QIS 34.47 188 eP 30 31.00 -0.2
WB5 34.93 197 eP 30 35.10 0.0
e 33 05.80
e 39 41.50
WRA 35.00 197 Pc 30 35.90 0.2
0.8s 19.00nm 5.0mb
BJI 36.14 322 eP 30 46.00 0.9
1.5s 42.00nm 5.1mb
ASPA 38.66 196 iPd 31 06.60 0.1
0.6s 13.00nm 4.9mb
eS 36 52.00
DZM 41.57 149 iPc 31 31.10 0.6
MBL 42.40 215 iPd 31 37.70 0.5
0.3s 5.00nm 4.8mb
LZH 42.70 309 iPc 31 42.00 2.2
1.5s 71.00nm 5.2mb
WARB 43.40 204 iPd 31 46.70 1.5
STK 45.49 184 iPd 32 01.60 -0.2
1.8s 11.00nm 4.3mb
MEKA 47.48 212 eP 32 17.30 -0.4
COOL 49.81 207 eP 32 35.00 -0.5
TOO 51.08 179 eP 32 46.00 0.9
GUN 56.18 294 P 33 23.20 0.0
PKI 56.59 294 P 33 25.20 -0.9
KKN 56.71 294 P 33 26.40 -0.4
DMN 56.86 294 P 33 27.40 -0.5
GKN 57.28 295 P 33 30.20 -0.5
0.4s 13.00nm 5.3mb
MBC 78.15 14 eP 35 26.00 -13.9X
KIC 143.58 301 PKP 43 13.52 -2.7
TIC 143.66 302 PKP 43 13.50 -2.8
LIC 143.90 301 PKP 43 14.50 -2.2
ZOBO 148.31 99 PKP 43 26.00 1.4
LPB 148.33 99 ePKP 43 25.00 0.6
CNCB 148.44 100 PKP 43 26.00 1.2
i 43 29.80

S.D. = 1.2 on 34 of 35 obs.

? AUG 18, 1990 17h 24m 00.72 ± 1.39s
44.487 N ± 14.2km 7.233 E ± 10.1km
DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)
ML 1.4 (GEN).

PZZ 0.10 281 P 24 03.52 0.0
S 24 05.19
STV 0.25 165 P 24 06.13 0.0
S 24 09.79
ENR 0.29 153 P 24 06.86 0.0
S 24 11.22
ROB 0.50 113 P 24 10.81 0.0
S.D. = 0.0 on 4 of 4 obs.

? AUG 18, 1990 18h 12m 47.23 ± 7.90s
31.519 S ± 16.8km 71.459 W ± 65.0km
DEPTH = 10.0km (geophysicist)

NEAR COAST OF CENTRAL CHILE (135)

RTBS 1.72 95 eP 13 16.30 -1.0
RTRS 2.18 52 ePd 13 24.20 0.1
eS 13 59.80

RTCB 2.27 90 ePd 13 25.00 -0.5
RTCV 2.51 99 e(P) 13 30.00 1.2
RTLL 2.56 87 ePc 13 29.90 0.4
MDZ 2.60 122 eP 13 30.10 0.1
iS 14 09.20
CFA 2.75 93 e(P) 13 33.00 0.8
S.D. = 0.9 on 7 of 7 obs.

* AUG 18, 1990 18h 17m 03.08 ± 1.83s
32.403 N ± 13.3km 16.990 W ± 18.1km
DEPTH = 33.0km (normal)

MADEIRA ISLANDS REGION (393)
MD 4.4 (RBA). Felt (IV) at Funchal.

TBT 3.80 192 iPd 18 01.60 1.0
iS 18 38.50
CTFE 3.96 171 iPc 18 02.40 -0.6
iS 18 40.40
GGC 4.43 164 iPc 18 08.40 -1.3
iS 18 51.50
CFTV 4.70 147 iPc 18 12.90 -0.7
iS 18 54.90
CHIE 4.74 190 ePd 18 14.80 0.8
iS 19 02.00
AVE 8.11 81 iPnd 19 02.50 1.1
iSn 20 20.00
i 20 22.00
TIO 8.42 97 iPnd 19 07.00 1.1
iSn 20 32.00
i 20 35.00
MOE 9.32 47 eP 19 17.00 -1.2
eS 20 52.00
IFR 10.03 80 iPn 19 28.00 -0.1
iSn 21 07.00
i 21 08.00
S.D. = 1.1 on 9 of 9 obs.

? AUG 18, 1990 18h 24m 44.58 ± 9.47s
8.626 S ± 86.6km 128.724 E ± 17.8km
DEPTH = 183.9 ± 38.1 km
4.6mb (3 obs.)

TIMOR SEA (290)

MTN 4.81 151 iPd 25 56.90 0.0
eS 26 58.00
KNA 7.08 180 iPd 26 27.40 0.0
0.2s 10.00nm 4.8mb
eS 27 53.00
WB5 12.45 155 eP 27 35.90 -0.8
eS 30 00.00
WRA 12.50 155 Pc 27 36.00 -1.3
0.4s 4.90nm 4.3mb
MBL 15.13 214 eP 28 10.00 -0.3
eS 30 52.00
ASPA 15.76 162 eP 28 19.00 0.9
0.3s 10.00nm 4.7mb
eS 31 19.30
QIS 15.85 140 eP 28 20.00 0.8
eS 31 08.00
S.D. = 1.2 on 7 of 7 obs.

* AUG 18, 1990 18h 37m 53.79 ± 0.62s
46.266 N ± 6.3km 1.537 E ± 5.7km
DEPTH = 10.0km (geophysicist)

FRANCE (538)
ML 2.5 (LDG).

LSF 0.02 197 Pg 37 55.00 -0.7
Sg 37 57.30
TCF 0.47 87 Pg 38 02.40 -0.9
Sg 38 08.70
MAF 0.72 93 Pg 38 06.90 -1.0
Sg 38 16.20
BGF 0.95 72 Pg 38 11.40 -0.5
Sg 38 22.70
RJF 0.96 181 Pg 38 11.50 -0.6
Sg 38 23.90
MFF 1.21 287 Pg 38 15.70 -0.6
Sg 38 30.90
AVF 1.36 67 Pg 38 17.90 -0.8
Sg 38 35.10
CAF 1.39 164 Pg 38 19.60 0.3
Sg 38 37.40
LFF 1.44 203 Pg 38 20.30 0.4
Sg 38 38.40
SSF 1.57 59 Pg 38 22.00 0.2

Sg 38 44.20
LPD 1.60 189 Pg 38 23.50 1.3
Sg 38 44.20
SMF 1.64 76 Pg 38 23.00 0.3
Sg 38 44.30
LBF 1.83 66 Pg 38 27.30 1.7
Sg 38 49.90
LOR 1.88 57 Pg 38 27.30 1.0
Sg 38 51.70
S.D. = 1.0 on 14 of 14 obs.

? AUG 18, 1990 18h 47m 28.03 ± 5.65s
37.205 N ± 35.3km 20.657 E ± 43.7km
DEPTH = 5.0km (geophysicist)

IONIAN SEA (399)
MD 3.0 (ATH).

VLS 0.97 357 ePg 47 46.30 -0.7
ITM 1.01 91 ePg 47 46.90 -0.8
VLI 1.89 104 ePb 48 01.70 0.5
EVR 1.94 28 ePb 48 03.00 1.0
KEK 2.59 345 ePg 48 21.70 10.4X
S.D. = 1.5 on 4 of 5 obs.

AUG 18, 1990 18h 52m 36.84 ± 0.18s
7.507 N ± 4.3km 93.975 E ± 3.8km
DEPTH = 21.4km (21 depth phases)
5.5mb (88 obs.) 6.0msz (24 obs.)

NICOBAR ISLANDS REGION (704)
CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
L.P.B.: 14S, 29C
Centroid Location:
Origin Time : 8:52:43.3 0.5
Lat 7.75N 0.05 Lon 93.86E 0.03
Dep 15.0 FIX Half-duration 3.8
Moment Tensor; Scale 10¹⁸ Nm
Mrr= 0.14 0.02 Mtt= 0.10 0.03
Mff=-0.24 0.03 Mrt=-0.33 0.08
Mrr= 0.09 0.09 Mtf= 1.13 0.02
Principal Axes:
T Vol= 1.11 Plg=12 Azm=141
N 0.15 73 275
P -1.27 11 48
Best Double Couple: Mo=1.2*10¹⁸
NP1: Strike=185 Dip=73 Slip= 180
NP2: 275 90 17

TSI 6.06 131 eP 54 09.00 1.5
SNG 6.60 92 eP 54 15.30 0.2
1.0s 508.00nm 6.4mb
e 55 25.10
eS 59 26.09
IPM 7.59 112 ePc 54 27.10 -1.9
0.8s 128.20nm 6.1mb
e 55 52.20
NNT 7.59 48 iPc 54 28.80 -0.2
KLM 8.80 119 eP 54 43.80 -2.1
NST 10.11 36 iPd 55 05.80 1.9
PPI 10.18 141 eP 55 03.00 -1.9
KGM 10.79 120 ePc 55 15.30 2.1
e 55 27.00
BDT 10.85 26 iPc 55 13.70 -0.4
0.8s 223.60nm 6.5mb
CHG 12.23 23 ePd 55 34.20 1.3
1.1s 180.38nm 6.2mb
eS 58 04.00
LOE 12.41 37 eP 55 36.50 1.3
GBA 17.35 292 Pc 56 43.00 3.6X
1.0s 57.30nm 4.7mb
HYB 17.98 305 ePc 56 49.00 1.7
1.2s 454.60nm 5.5mb
QIZ 19.21 52 P 57 04.20 1.9
1.4s 1300.00nm 6.0mb
E 12s 80.50um
SP 57 14.00
S 00 34.50
SS 00 43.00
KMI 19.42 25 Pd 57 06.00 1.0
7.0s 4300.00nm 5.8mb X
Z 14s 36.60um 3.5msz X
N 13s 13.70um
E 13s 11.70um
PKI 21.54 339 P 57 26.00 -1.3
DMN 21.69 338 P 57 27.80 -0.9
GUN 21.69 340 P 57 27.60 -1.2
KKK 21.79 339 P 57 28.20 -1.4

KKM	22.13	92 ePc	57 40.50	7.5X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														</
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18d 19h

RJF	1.2s	26.80nm	5.3mb	PORP	148.20	323	PKP	12	22.00	1.7	SML	0.33	320	iP	53	23.00	0.0	
	06.45	315 eP	05 19.20	-0.1	MGP	148.50	324	PKP	12	24.50	3.7X			eS	53	28.17		
Z	0.8s	17.45nm	5.3mb		MRX	149.11	29	(PKP)	12	26.50	4.8X	SCM	0.38	44	iP	53	23.70	-0.4
LPO	20s	7.25um	6.1Msz		IIJ	149.75	26	(PKP)	12	29.50	6.2X	GHO	0.54	294	iP	53	26.80	-0.3
	06.76	314 eP	05 20.70	-0.1	CRX	150.06	27	(PKP)	12	32.50	8.9X			eS	53	34.35		
LFF	0.8s	29.55nm	5.6mb		CHCH	150.11	206	ePKP	12	14.50	-8.4X	PLRM	0.60	274	iP	53	27.36	-0.9
	07.04	315 eP	05 22.30	0.2	MDZ	150.14	210	ePKP	12	27.90	4.9X			iS	53	35.48		
	1.0s	26.00nm	5.4mb						12	32.20		VZW	0.82	127	eP	53	31.44	-0.6
LDF	07.13	318 eP	05 22.10	-0.4	CFA	150.84	212	ePKPc	12	28.10	4.0X			eS	53	42.35		
	0.8s	26.85nm	5.5mb		LIIT	150.99	25	(PKP)	12	30.00	5.1X	VLZ	0.86	119	eP	53	31.70	-1.1
FLN	07.34	319 eP	05 23.30	-0.2	LVVM	151.05	21	(PKP)	12	30.00	5.4X			eS	53	43.23		
Z	1.0s	32.00nm	5.5mb		RTLL	151.18	212	e(PKP)	12	28.00	3.4X	PMS	0.87	249	iP	53	32.19	-0.7
	20s	10.00um	6.2Msz						12	32.00				eS	53	42.73		
MFF	07.43	316 eP	05 23.60	-0.4	IHA	151.32	206	ePKP	12	32.00	7.3X	KLU	0.94	93	iP	53	33.21	-1.0
	0.9s	22.95nm	5.4mb		RTBS	151.43	211	e(PKP)	12	30.00	5.2X			iS	53	45.67		
LPF	07.82	318 eP	05 25.90	0.1	EVV	152.61	20	(PKP)	12	38.00	11.1X	PWA	0.96	276	eP	53	34.12	-0.3
	1.0s	28.00nm	5.5mb		RTRS	152.62	212	ePKPd	12	31.80	5.2X			eS	53	47.09		
EKA	07.93	325 Pc	05 26.10	-0.1	GUAN	153.30	310	ePKP	12	38.50	10.3X	TOA	0.98	55	iP	53	34.70	-0.2
	1.0s	11.40nm	5.1mb		LLAV	153.82	313	iPKP	12	39.00	10.1X			eS	53	50.30		
ECHE	09.06	310 e(P)	05 34.00	2.0	OLLA	154.12	312	iPKP	12	40.70	11.4X	SUA	1.37	267	eP	53	41.08	-0.4
ETOR	09.69	311 e(P)	05 37.00	2.0	SIV	154.18	249	PKP	12	30.00	0.8			eS	53	59.79		
DLE	09.28	324 eP	05 46.00	8.7X	FISA	155.03	318	ePKP	12	44.00	13.6X	CUT	1.41	308	eP	53	41.75	-0.1
DMU	09.36	324 eP	05 48.00	10.3X	CCH	158.27	241	PKP	12	39.60	4.8X			eS	54	00.00		
GUD	09.29	311 e(P)	05 43.30	0.8	CNCB	160.10	241	PKP	12	40.00	2.8X	SLKM	1.55	228	eP	53	43.67	-0.2
TOL	09.35	310 eP	05 52.00	9.4X	LPB	160.32	241	ePKP	12	43.00	5.8X			eS	54	03.61		
		eS	16 40.00		ZOBO	160.45	242	PKP	12	40.60	3.1X							
EBAN	09.47	309 e(P)	05 45.50	2.3								HUR	1.64	331	eP	53	45.33	0.1
ASMO	09.59	308 eP	05 48.00	4.1X														

KNA 9.55 188 eP 36 02.20 -0.7
0.3s 33.00nm 5.7mb x
WB5 14.20 163 eP 37 01.70 -2.5
i 37 04.10
eS 39 29.50
WRA 14.26 163 Pd 37 05.60 0.7
0.4s 9.50nm 4.4mb
QIS 16.99 148 eP 37 40.00 0.7
eS 40 32.00
ASPA 17.73 168 iPd 37 48.40 0.0
0.5s 32.00nm 4.8mb
eS 40 50.00
MBL 17.86 213 iPd 37 49.70 -0.2
eS 40 55.00
NANU 21.47 219 eP 38 28.00 -0.2
eS 42 25.00
MEKA 23.07 207 eP 38 44.20 0.3
MRWA 26.46 209 eP 39 16.50 0.7
eS 44 15.00
MAT 43.22 10 eP 41 39.00 -0.1
0.7s 5.48nm 4.5mb
INK 98.12 22 eP 47 23.00 10.5X
S.D. = 1.2 on 11 of 12 obs.

& AUG 18, 1990 23h 41m 17.84s
62.668 N 150.354 W
DEPTH = 78.9km
CENTRAL ALASKA (1)
<AGS-P>.

CUT 0.27 172 iP 41 29.93 0.0
eS 41 38.58
HUR 0.45 46 iP 41 31.02 -0.3
eS 41 40.53
SKT 0.88 219 iP 41 35.62 -0.1
iS 41 49.03
KTH 0.93 344 eP 41 36.56 0.3
eS 41 49.73
PWA 1.05 167 iP 41 37.69 0.1
GHO 1 12 143 iP 41 38.61 -0.1
eS 41 55.84
PLRM 1 22 151 iP 41 39.81 0.0
eS 41 57.50
SUA 1.22 189 eP 41 40.26 0.3
eS 41 59.25
MCK 1.25 30 eP 41 39.73 -0.5
SML 1.28 131 eP 41 40.43 -0.3
eS 41 59.28
PMS 1.48 165 eP 41 43.12 -0.1
NCG 1.53 215 iP 41 44.05 0.1
CGLM 1.57 210 eP 41 44.59 0.0
eS 42 05.30
CRP 1.64 212 eP 41 46.40 0.8
SCM 1.65 119 eP 41 45.20 -0.3
SPU 1.69 209 eP 41 46.25 0.1
BGL 1.71 215 eP 41 47.34 1.0
CKL 1.75 213 iP 41 47.61 0.6
NKA 1.98 193 eP 41 52.68 2.8
TOA 2.03 104 eP 41 50.76 0.0
WRH 2.07 28 eP 41 50.32 -0.9
SLKM 2.17 178 eP 41 53.70 1.1
CCB 2.29 29 iP 41 53.09 -1.1
HDA 2.32 40 eP 41 53.63 -1.0
RDT 2.32 206 iP 41 54.85 0.1
DDM 2.32 59 eP 41 54.91 0.2
KLU 2.40 118 eP 41 54.39 -1.4
VZW 2.42 130 eP 41 54.74 -1.3
VLZ 2.45 127 eP 41 54.74 -1.6
RED 2.54 208 eP 41 58.67 0.9
SEW 2.61 170 eP 41 58.64 0.0
TTA 2.61 278 iP 41 58.30 -0.5
GLM 2.67 28 eP 41 58.56 -1.0
DOT 3.02 68 eP 42 03.73 -0.6
CNPM 3.18 188 eP 42 06.86 0.3
GLB 3.32 109 eP 42 06.57 -1.9
PDB 3.43 214 eP 42 09.61 -0.5
TGL 4.06 115 iP 42 16.79 -2.2
BALM 4.13 110 eP 42 17.66 -2.3
39 obs. associated

* AUG 19, 1990 00h 39m 50.99±0.86s
47.122 N ± 7.6km 11.330 E ± 8.1km
DEPTH = 5.0km (geophysicist)
AUSTRIA (546)
ML 2.4 (FUR).

SQTA 0.13 320 iPg 39 53.70 -0.1
iSg 39 55.00
WATA 0.27 38 iPg 39 56.40 -0.1
iSg 40 02.00
OGA 0.33 219 iPg 39 56.50 -1.2
FUR 1.05 358 iPg 40 14.00 2.8X
FVI 1.13 117 P 40 12.50 0.0
eSg 40 26.50
MDI 1.75 220 P 40 23.50 1.4
eSn 40 49.00
KHC 2.51 36 ePg 40 37.60 4.4X
Sg 41 11.00
S.D. = 1.3 on 5 of 7 obs.
% AUG 19, 1990 00h 48m 47.95±0.97s
31.708 S ± 14.7km 68.866 W ± 8.0km
DEPTH = 33.0km (normal)
SAN JUAN PROVINCE, ARGENTINA (137)

ZON 0.23 45 eP 48 54.20 -0.7
RTCV 0.32 119 ePc 48 55.70 -0.3
RTBS 0.50 275 ePd 48 58.80 0.2
RTLL 0.51 42 ePc 48 58.80 0.1
CFA 0.54 79 e(P) 49 00.00 0.8
S 49 08.00
RTRS 1.62 341 ePd 49 18.70 4.2X
S.D. = 0.8 on 5 of 6 obs.

? AUG 19, 1990 00h 53m 55.19±1.00s
35.791 N ± 11.6km 24.008 E ± 12.2km
DEPTH = 10.0km (geophysicist)
CRETE (370)
MD 3.2 (ATH).

VAM 0.41 158 ePg 54 03.70 0.0
VLI 1.27 317 ePb 54 18.70 0.0
NPS 1.41 111 ePb 54 20.70 -0.2
ITM 2.18 310 ePg 54 39.00 7.0X
KAP 2.59 94 ePn 54 38.00 0.2
S.D. = 0.3 on 4 of 5 obs.

AUG 19, 1990 01h 04m 35.70±0.53s
43.913 N ± 4.7km 7.824 E ± 3.8km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 2.0 (LDG), 1.9 (GEN).

IMI 0.05 93 P 04 37.54 -0.4
S 04 38.43
SBF 0.29 260 Pg 04 41.60 -0.1
Sg 04 46.10
ROB 0.38 5 P 04 43.82 0.2
S 04 49.29
FIN 0.41 43 P 04 44.33 0.3
S 04 49.84
ENR 0.43 317 P 04 44.28 -0.2
S 04 50.15
STV 0.49 313 P 04 45.53 -0.1
S 04 51.29
PZZ 0.79 319 P 04 50.97 -0.2
S 05 01.73
PCP 0.82 39 P 04 51.44 -0.1
S 05 02.40
FRF 0.92 248 Pg 04 53.40 0.1
Sg 05 06.00
LMR 1.12 239 Pg 04 56.40 -0.2
Sg 05 11.10
LRG 1.16 247 Pg 04 57.90 0.6
Sg 05 13.00
S.D. = 0.3 on 11 of 11 obs.

? AUG 19, 1990 01h 08m 01.60±0.91s
40.049 N ± 13.2km 15.896 E ± 8.5km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

MGR 0.28 289 P 08 07.00 -0.4
eSg 08 12.00
ORI 0.42 88 P 08 10.00 -0.3
eSg 08 18.50
TDS 0.52 139 P 08 12.30 0.2
eSg 08 21.50
SGO 0.68 319 P 08 15.50 0.5
eSg 08 25.00
S.D. = 0.7 on 4 of 4 obs.

% AUG 19, 1990 01h 28m 58.65±0.63s

26.921 S ± 6.0km 26.687 E ± 6.6km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.8 (PRE).

BFS 0.09 75 eP 29 00.30 -0.5
S 29 01.50
PRY 0.70 91 iPd 29 12.50 -0.2
S 29 23.00
KSR 1.07 10 eP 29 19.50 0.1
S 29 31.40
BPI 1.41 59 eP 29 25.00 -0.2
S 29 41.00
SEK 1.63 149 eP 29 29.00 0.8
S 29 48.00
SLR 1.86 51 iPd 29 32.00 0.5
S 29 55.20
EVA 2.18 80 eP 30 04.50 28.3X
S 30 30.50
BLF 2.22 191 iPc 29 37.00 0.1
S 30 07.50
KIM 2.49 222 eP 29 40.50 -0.1
FRS 3.06 203 eP 29 48.00 -0.6
S 30 24.00
HVD 3.82 196 eP 30 14.00 14.5X
S.D. = 0.5 on 9 of 11 obs.

? AUG 19, 1990 01h 32m 15.20±8.25s
31.338 S ± 15.8km 71.337 W ± 70.2km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)

RTBS 1.64 102 ePd 32 41.20 -0.9
RTRS 1.99 55 ePc 32 47.10 -0.1
RTCV 2.44 103 e(P) 32 54.00 0.3
RTLL 2.45 91 ePc 32 54.40 0.6
MDZ 2.61 127 eP 32 56.20 0.1
iS 33 34.70
S.D. = 0.8 on 5 of 5 obs.

* AUG 19, 1990 01h 36m 30.62±1.15s
40.440 N ± 13.5km 21.447 E ± 20.2km
DEPTH = 33.0km (normal)
GREECE (364)
ML 2.5 (SKO).

FNA 0.35 351 ePd 36 38.90 -0.2
OHR 0.83 324 iPg 36 46.90 0.9
iSg 37 00.20
LIT 0.87 113 ePd 36 47.40 0.9
SKO 1.53 360 ePn 36 55.00 -0.9
i 37 21.30
i 37 28.00
AGG 1.57 154 eP 36 55.80 -0.8
S.D. = 1.3 on 5 of 5 obs.

* AUG 19, 1990 01h 39m 18.87±1.79s
14.625 N ± 5.0km 60.437 W ± 17.5km
DEPTH = 33.0km (normal)
WINDWARD ISLANDS (95)
ML 3.6 (FDF).

MVM 0.45 261 iPd 39 28.67 -0.1
CRM 0.48 285 iPd 39 29.01 -0.2
FDF 0.70 279 iPd 39 32.33 0.0
S 39 42.70
SLW 0.77 219 eP 39 33.39 0.1
SLB 0.99 216 eP 39 36.46 0.0
DPMT 1.11 305 eP 39 38.27 0.1
eS 39 52.71
MDN 1.16 307 eP 39 38.34 -0.4
eS 39 54.19
BBL 1.34 312 iPc 39 42.39 0.9
S 39 59.40
SFG 1.78 336 eP 39 47.45 -0.3
PAG 1.84 320 eP 39 48.70 -0.1
S 40 14.20
MGH 2.70 321 eP 40 11.70 10.8X
S.D. = 0.4 on 10 of 11 obs.

* AUG 19, 1990 02h 43m 53.76±1.39s
45.672 N ± 15.9km 15.704 E ± 8.7km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.8 (LJU).

ZAG 0.24 53 iPg 43 59.00 0.1

DEPTH = 33.0km (normal) 4.7mb (3 obs.)				BRT				PGD			
LUZON, PHILIPPINE ISLANDS (249)				LIT				TRI			
GYA	16.74	311 P	16 13.40 5.9X	GRG				VOY			
TIA	20.38	352 eP	16 56.20 5.9X	SKO				VRI			
Z	16s	0.90um	4.2MszX	2.21 34 iPnc				SRO			
CHTO	21.00	281 P	20 27.00	iPb				e			
TIY	22.84	343 eP	16 57.80 1.0	iSn				e			
Z	13s	2.20um	4.8MszX	i				P II			
N	12s	1.40um		iSb				BDI			
BJI	24.28	351 eP	17 20.00 -8.9X	iSg				FVI			
Z	12s	0.90um	4.5MszX	ePn				SAL			
N	12s	0.64um		eSn				SPC			
LZH	25.04	326 P	17 39.00 2.5	ePnc				MDI			
Z	2.6s	87.00nm	4.9mb	ePn				SOTA			
N	13s	2.60um	4.9MszX	eSn				ic			
E	12s	3.30um		iPnc				iPP			
SNY	25.85	5 eP	17 43.10 -0.7	i				iS			
Z	16s	1.20um	4.5MszX	iSn				KHC			
E	13s	1.80um		ePn				LPG			
HMC	26.01	344 eP	17 49.80 4.3X	eSn				LPL			
Z	16s	0.80um	4.3MszX	ePnc				GRF			
SHL	28.57	294 eP	18 07.00 -2.0	eSn				BSF			
WB5	38.09	159 eP	19 31.50 0.3	ePnd				CDF			
WRA	38.14	159 Pc	19 40.30 8.6X	eSn				HAU			
Z	0.9s	4.80nm	4.3mb	ePn				SMF			
MAIO	57.66	303 eP	22 03.00 -0.4	eSn				LBF			
PMR	76.13	30 (P)	24 00.00 0.3	ePn				LOR			
SOD	76.95	337 eP	24 20.00 15.8X	eSn				AVF			
SUF	78.02	332 eP	24 09.00 -1.1	ePn				SSF			
KRA	84.66	321 eP	24 48.70 3.4X	ePn				UPP			
NAO	85.51	332 P	24 45.60 -3.8X	eSn				HFS			
Z	1.0s	5.10nm	4.7mb	ePnc				NUR			
KSP	86.58	322 eP	24 55.20 0.3	eSn				NAO			
S.D. = 1.4 on 10 of 18 obs.				ePnc				EKA			
? AUG 19, 1990 10h 31m 11.79±20.94s				ePn				SUF			
58.492 N ±120.km 2.556 E ±122.km				ePc				BCAO			
DEPTH = 10.0km (geophysicist)				ePn				S.D. = 1.4 on 96 of 104 obs.			
NORTH SEA (534)				ePn				? AUG 19, 1990 11h 17m 10.00±11.45s			
MD 2.5 (BER).				eSn				16.096 N ±82.8km 99.750 W ±62.3km			
KMY	1.57	62 eP	31 39.70 -0.1	ePn				DEPTH = 10.0km (geophysicist)			
BLS2	2.41	69 eP	31 51.93 0.0	ePn				NEAR COAST OF GUERRERO, MEXICO (58)			
ASK	2.41	33 eP	31 51.93 0.1	ePn				Felt at Mexico City.			
ODD1	2.53	54 eP	31 53.75 0.1	ePn				ACX			
SUE	2.80	22 eP	31 57.45 0.0	ePn				OXX			
HYA	3.25	33 eP	32 03.47 -0.3	ePn				IIT			
MOL	4.78	29 eP	32 25.54 0.1	ePn				IJJ			
S.D. = 0.2 on 7 of 7 obs.				ePn				MRX			
AUG 19, 1990 11h 07m 00.75±0.28s				ePn				S.D. = 0.7 on 4 of 5 obs.			
40.156 N ± 3.3km 19.766 E ± 2.5km				ePn				* AUG 19, 1990 11h 25m 05.71±0.44s			
DEPTH = 10.0km (geophysicist)				ePn				17.064 S ±10.8km 168.310 E ±14.7km			
4.2mb (4 obs.)				ePn				DEPTH = 33.0km (normal)			
ALBANIA (391)				ePn				3.8mb (1 obs.)			
ML 4.1 (ATH), 3.9 (TIG), MD 4.0				ePn				VANUATU ISLANDS (186)			
(THE). Felt (V) at Borsh,				ePn				PVC			
Dhermi, Flere, Himore and Kudhes				ePn				DZM			
and (IV) at Sarande, Tepelene				ePn				WB5			
and Vloro.				ePn				WRA			
TPE	0.23	53 iPg	07 05.00 -0.7	ePn				0.6s 0.90nm 3.8mb			
SRN	0.33	147 iPg	07 06.30 -1.3	ePn				PRI			
VLO	0.37	327 iPg	07 11.00 2.6	ePn				WDC			
KEK	0.44	177 ePg	07 09.50 -0.3	ePn				ORV			
BERA	0.56	14 iPg	07 12.80 0.6	ePn				CMB			
IGT	0.76	145 iPg	07 10.00 -5.6X	ePn							
TIR	1.19	4 ePn	07 24.70 1.7	ePn							
FNA	1.38	62 iPbc	07 25.10 -1.0	ePn							
LCI	1.40	278 P	07 26.80 0.5	ePn							
LACI	1.48	358 iPbc	07 29.20 1.8	ePn							
KZN	1.54	84 ePb	07 28.20 -0.2	ePn							
ULC	1.85	348 iPnc	07 33.70 1.0	ePn							
SDA	1.87	354 iPnd	07 35.00 2.0	ePn							
EVR	2.01	127 ePb	07 36.70 1.6	ePn							
VLS	2.08	162 ePn	07 36.00 -0.1	ePn							

PGD 68.26 309 P 43 49.50 1.8
 LPG 70.94 312 eP 44 04.70 0.5
 0.6s 6.75nm 4.9mb
 LPL 70.94 312 eP 44 04.60 0.4
 0.8s 10.75nm 5.0mb
 BNI 71.16 312 P 44 08.50 3.1X
 LOR 72.05 315 eP 44 11.10 0.6
 0.8s 3.35nm 4.4mb
 Z 20s 0.08um 4.0Msz
 LBF 72.09 314 eP 44 10.60 -0.2
 0.8s 4.05nm 4.5mb
 SMF 72.32 314 eP 44 12.00 -0.1
 0.8s 4.70nm 4.6mb
 FBA 72.34 24 P 44 11.00 -0.9
 SSF 72.35 314 eP 44 12.20 -0.1
 0.8s 5.35nm 4.6mb
 EKA 72.49 324 P 44 14.00 1.1
 0.8s 5.00nm 4.6mb
 AVF 72.56 314 eP 44 13.30 -0.2
 0.8s 5.35nm 4.6mb
 INK 74.67 18 eP 44 24.00 -1.3
 BUL 84.14 243 eP 45 16.00 -1.4
 ZOBO 162.12 316 PKP 52 51.00 3.0X
 S.D. = 1.3 on 56 of 62 obs.

* AUG 19, 1990 16h 04m 41.93±0.70s
 17.030 S ±13.6km 168.013 E ±15.9km
 DEPTH = 33.0km (normal)
 4.6mb (4 obs.)

VANUATU ISLANDS (186)

PVC 0.76 158 iPd 04 54.50 -1.7
 0.8s 10.00nm 4.3mb
 DZM 5.23 196 iPd 06 01.90 1.9
 0.8s 10.00nm 4.3mb
 CTA 20.85 258 iPc 09 25.00 1.5
 2.0s 117.65nm 4.9mb
 0.8s 13.42nm 4.3mb
 STK 28.13 233 eP 10 33.80 0.7
 0.8s 5.00nm 4.3mb
 WB5 32.01 260 eP 11 07.30 -0.4
 WRA 32.04 260 P 11 05.00 -2.9
 1.0s 2.90nm 4.1mb
 ASPA 32.60 253 eP 11 11.90 -1.0
 1.1s 29.00nm 5.1mb
 CDF 144.96 337 ePKP 24 15.20 -2.3
 1.0s 8.00nm 4.1mb
 BSF 145.63 337 ePKP 24 17.00 -1.7
 1.0s 8.00nm 4.1mb
 HAU 145.64 338 ePKP 24 17.10 -1.5
 0.8s 8.05nm 4.1mb
 LOR 147.13 340 ePKP 24 21.40 0.4
 0.7s 3.30nm 4.1mb
 LBF 147.34 340 ePKP 24 22.10 0.7
 1.2s 13.40nm 4.1mb
 SSF 147.43 340 ePKP 24 22.40 1.0
 0.8s 6.70nm 4.1mb
 LPL 147.57 335 ePKP 24 23.30 1.3
 0.7s 3.30nm 4.1mb
 LPG 147.58 335 ePKP 24 23.40 1.3
 0.7s 3.85nm 4.1mb
 BGF 148.09 340 ePKP 24 23.80 1.3
 0.8s 7.40nm 4.1mb
 TCF 148.53 341 ePKP 24 25.00 1.7
 1.0s 9.00nm 4.1mb
 LSF 148.77 342 ePKP 24 23.40 -0.2
 1.0s 10.00nm 4.1mb
 PGF 148.89 329 ePKP 24 26.30 2.2X
 0.8s 8.05nm 4.1mb
 MFF 148.92 344 ePKP 24 26.00 2.2X
 0.9s 6.55nm 4.1mb
 S.D. = 1.6 on 18 of 20 obs.

* AUG 19, 1990 16h 06m 26.89±0.90s
 16.812 S ±10.3km 168.271 E ±15.9km
 DEPTH = 33.0km (normal)
 4.7mb (3 obs.) 4.9Msz (1 obs.)

VANUATU ISLANDS (186)

PVC 0.92 178 iPd 06 43.00 -0.5
 0.8s 10.00nm 4.3mb
 DZM 5.51 198 iPd 07 49.00 0.2
 0.8s 10.00nm 4.3mb
 STK 28.46 233 iPc 12 22.50 1.5
 0.6s 7.00nm 4.5mb
 WB5 32.29 259 eP 12 54.70 -0.4
 WRA 32.32 259 P 12 54.90 -0.5

ASPA 0.6s 2.20nm 4.2mb
 32.90 252 iPd 12 59.90 -0.5
 0.6s 50.00nm 5.6mb
 Z 18s 2.17um 4.9Msz
 LR 24 56.50
 CDF 144.86 338 ePKP 26 01.80 -0.5
 0.8s 5.35nm 4.1mb
 BSF 145.52 338 ePKP 26 03.70 0.3
 0.6s 2.70nm 4.1mb
 HAU 145.53 338 ePKP 26 03.80 0.5
 0.8s 6.70nm 4.1mb
 LOR 147.01 340 ePKP 26 08.20 2.4X
 0.6s 3.15nm 4.1mb
 LBF 147.22 340 ePKP 26 08.90 2.8X
 0.8s 2.70nm 4.1mb
 SSF 147.31 341 ePKP 26 09.20 3.0X
 0.8s 7.40nm 4.1mb
 LPL 147.48 336 ePKP 26 10.20 3.4X
 0.6s 2.25nm 4.1mb
 LPG 147.48 335 ePKP 26 10.20 3.3X
 0.6s 2.70nm 4.1mb
 SMF 147.57 340 ePKP 26 09.50 2.8X
 0.7s 1.65nm 4.1mb
 AVF 147.60 341 ePKP 26 09.70 3.0X
 1.0s 4.00nm 4.1mb
 BGF 147.96 341 ePKP 26 10.70 3.4X
 0.7s 6.05nm 4.1mb
 TCF 148.40 341 ePKP 26 12.10 4.1X
 1.0s 4.00nm 4.1mb
 LSF 148.64 342 ePKP 26 12.40 4.0X
 0.7s 5.50nm 4.1mb
 PGF 148.83 338 ePKP 26 13.20 4.3X
 0.8s 9.40nm 4.1mb
 S.D. = 0.8 on 9 of 20 obs.

* AUG 19, 1990 17h 13m 26.54±0.65s
 17.074 S ±9.6km 168.099 E ±18.3km
 DEPTH = 33.0km (normal)
 4.8mb (1 obs.)

VANUATU ISLANDS (186)

PVC 0.69 163 iPc 13 39.50 -0.3
 0.8s 13.53nm 4.1mb
 DZM 5.21 197 iPc 14 44.80 0.5
 0.8s 15.48nm 4.1mb
 ASPA 32.67 253 iPd 19 57.60 -0.4
 0.8s 11.00nm 4.8mb
 Z 18s 0.21um 3.9MszX
 LR 31 52.70
 CDF 145.04 338 ePKP 33 02.50 0.3
 0.8s 4.05nm 4.1mb
 BSF 145.70 337 ePKP 33 03.80 0.4
 HAU 145.71 338 ePKP 33 03.20 -0.1
 1.0s 8.00nm 4.1mb
 Z 21s 3.38um 6.1Msz
 LOR 147.20 340 ePKP 33 04.80 -0.9
 0.6s 1.80nm 4.1mb
 Z 21s 0.40um 5.2Msz
 SSF 147.50 340 ePKP 33 06.80 0.6
 0.8s 4.05nm 4.1mb
 LPL 147.65 335 ePKP 33 10.90 4.1X
 0.8s 2.00nm 4.1mb
 LPG 147.65 335 ePKP 33 10.80 3.9X
 0.7s 2.00nm 4.1mb
 S.D. = 0.6 on 8 of 10 obs.

* AUG 19, 1990 17h 36m 10.12±1.49s
 44.072 N ±20.9km 11.029 E ±5.8km
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)

BDI 0.31 268 P 36 16.50 -0.1
 0.8s 36.22nm 4.1mb
 PII 0.51 226 P 36 20.50 0.1
 0.8s 36.29nm 4.1mb
 PGD 0.54 111 P 36 20.50 -0.5
 0.8s 36.30nm 4.1mb
 SFI 0.61 104 P 36 23.00 0.5
 0.8s 36.32nm 4.1mb
 S.D. = 0.8 on 4 of 4 obs.

* AUG 19, 1990 17h 44m 58.79±0.61s
 34.597 S ±12.8km 107.776 W ±11.8km
 DEPTH = 10.0km (geophysicist)
 5.2mb (5 obs.) 4.8Msz (3 obs.)
 EASTER ISLAND CORDILLERA (684)
 CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
 L.P.B.: 14S, 29C
 Centroid Location:
 Origin Time 17:45: 3.6 0.2
 Lat 35.155 0.02 Lon 107.52W 0.02
 Dep 22.9 3.2 Half-duration 3.0
 Moment Tensor; Scale 10**17 Nm
 Mrr= 0.15 0.08 Mtt=-0.64 0.10
 Mff= 0.49 0.12 Mrt= 0.00 0.00
 Mrf= 0.00 0.00 Mtf=-4.01 0.10
 Principal Axes:
 T Val= 3.97 Plg= 0 Azm=229
 N 0.15 90 180
 P -4.12 0 139
 Best Double Couple: Mo=4.1*10**17
 NP1:Strike=274 Dip=90 Slip=-180
 NP2: 4 90 0

MDZ 32.28 98 eP 51 29.00 -0.9
 PT10 35.85 59 e(P) 52 11.00 10.2X
 ARE 37.13 70 eP 52 12.00 0.1
 CNCB 39.69 74 P 52 35.00 1.4
 LPB 39.75 73 P 52 32.00 -1.9
 1.5s 250.00nm 5.7mb
 SS 52 37.00
 LR 01 47.00
 LR 04 09.00
 ZOBO 39.88 73 P 52 36.60 1.4
 1.2s 71.62nm 5.2mb
 Z 20s 2.89um 5.1Msz
 S 58 16.00
 LR 04 08.00
 CCH 40.84 76 P 52 45.50 2.8
 SIV 45.67 78 P 53 20.00 -1.6
 BOG 50.30 46 eP 54 04.00 5.9X
 eS 00 20.00
 PPD 50.68 91 (P) 54 00.00 -0.6
 VAO 53.82 95 (P) 54 24.00 -0.1
 SBA 55.51 195 e(P) 54 36.80 1.0
 SPA 55.58 180 eP 54 36.80 0.1
 0.9s 16.82nm 5.1mb
 BMA 56.27 96 eP 54 40.70 -1.3
 e 54 44.00
 e 54 48.80
 e 55 05.90
 BAO 56.54 86 eP 54 44.50 0.4
 PDCR 65.48 89 eP 55 39.20 -5.3X
 e 55 43.10
 e 55 44.70
 e 55 46.20
 e 55 50.80
 BAR 67.44 352 eP 56 02.00 5.4X
 ALQ 69.19 1 eP 56 08.00 0.3
 1.3s 7.69nm 4.7mb
 Z 18s 0.34um 4.6Msz
 ABL 69.91 350 P 56 18.30 6.2X
 GSC 70.05 352 eP 56 19.00 6.2X
 CLC 70.65 352 eP 56 20.00 3.6X
 SIO 70.80 10 eP 56 14.60 -2.6
 TUL 71.03 10 eP 56 19.20 0.6
 0.9s 17.30nm 5.2mb
 Z 20s 0.55um 4.8Msz
 LR 14 00.00
 FRI 72.08 350 eP 56 24.50 -0.4
 ARN 72.72 349 P 56 30.00 1.3
 JSC 72.88 23 P 56 30.00 0.3
 CMB 73.21 350 e(P) 56 30.90 -0.7
 KVN 73.90 352 P 56 35.90 0.1
 GOL 73.96 2 P 56 38.60 2.4
 FVM 73.99 14 P 56 36.50 0.4
 DAU 74.71 357 P 56 49.50 8.9X
 WDC 76.03 348 e(P) 56 46.00 -1.8
 LRM 80.16 357 eP 57 10.90 0.3
 GMW 82.87 350 P 57 24.50 0.0
 PNT 84.20 352 eP 57 43.00 11.8X
 1.0s 17.00nm 4.1mb
 SES 84.67 358 eP 57 37.00 3.5X
 YKA 96.91 357 eP 58 45.90 15.2X
 1.0s 2.50nm 4.1mb
 KHC 135.08 53 ePKP 04 12.10 -7.6X
 BJI 144.90 292 ePKP 04 36.00 -1.5
 2.0s 66.00nm 4.1mb
 ELL 145.76 74 ePKP 04 39.20 -0.1
 IZI 145.84 68 ePKP 04 38.00 -1.3
 ALT 146.22 70 ePKP 04 42.00 2.0
 RMN 148.17 87 ePKP 04 48.10 4.8X
 BBTk 148.32 69 iPKPd 04 48.00 4.7X

19d 21h

CNCB 172.23 88 PKP 06 57.00 1.7
 SIV 178.33 44 PKP 06 56.60 0.4
 S.D. = 1.0 on 114 of 123 abs.

7 AUG 19, 1990 21h 29m 46.45±1.43s
 26.449 S ±19.3km 27.428 E ±14.9km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 2.6 (PRE).

BPI 0.61 63 eP 29 58.00 -0.6
 BFS 0.73 232 eP 30 01.00 0.0
 EVA 1.48 93 eP 30 43.00 29.1X
 SEK 1.88 175 eP 30 19.50 -0.1
 BFT 2.47 73 eP 30 29.00 0.7
 S.D. = 1.0 on 4 of 5 abs.

AUG 19, 1990 21h 38m 17.89±0.32s
 15.539 N ±6.4km 147.688 E ±6.2km
 DEPTH = 34.1km (17 depth phases)
 4.6mb (4 abs.)
 MARIANA ISLANDS REGION (215)

GUA 3.34 234 eP 39 09.10 0.0
 GUMD 3.35 235 eP 39 09.30 0.1
 PJG 3.35 235 eP 39 09.20 0.0
 KAKJ 21.65 343 eP 43 04.40 -2.9
 KAJJ 21.85 341 eP 43 09.50 0.1
 TSRJ 22.50 334 eP 43 17.70 1.8
 MAT 22.56 340 eP 43 16.00 -0.4
 MTMJ 22.73 339 P 43 18.90 0.7
 NIJJ 22.95 342 eP 43 20.10 -0.1
 BJI 36.73 318 eP 45 23.50 -0.3
 WB5 37.55 201 eP 45 30.00 -0.9
 WRA 37.62 201 Pc 45 30.70 -0.8
 0.7s 7.60nm 4.7mb
 XAN 39.43 305 P 45 46.60 0.0
 GYA 39.66 293 P 45 49.80 1.1
 LZH 44.01 306 P 46 25.50 1.3
 1.5s 31.00nm 4.9mb
 CHTO 46.57 281 P 46 45.70 1.0
 GTA 47.99 309 P 46 56.00 0.2
 WMO 57.82 312 P 48 09.00 0.5
 PKI 58.63 293 P 48 00.00 -14.8X
 INK 71.53 23 eP 49 36.00 -1.0
 49 47.00 36km
 GMW 78.39 44 P 50 17.30 0.6
 50 27.90 34km
 RMW 79.06 44 P 50 20.50 0.0
 50 31.00 34km
 YKA 79.88 28 eP 50 24.10 -0.3
 0.9s 2.00nm 4.1mb
 WDC 79.90 51 eP 50 37.50 12.5X
 50 47.00 30km
 LBFM 80.22 50 P 50 27.00 0.0
 50 37.90 35km
 BRK 80.67 53 eP 50 36.80 7.6X
 50 47.30 33km
 ORV 80.89 52 e(P) 50 38.50 8.2X
 50 48.80 33km
 ARN 81.35 54 P 50 33.10 0.3
 50 43.80 34km
 PRS 81.71 55 eP 50 35.50 0.9
 50 46.00 33km
 NEW 81.97 42 P 50 35.30 -0.5
 CMB 82.08 53 eP 50 37.20 0.6
 50 47.80 34km
 PRI 82.31 55 eP 50 39.30 1.4
 50 49.70 33km
 FRI 82.05 54 eP 50 41.20 0.7
 50 51.70 33km
 KVN 83.57 51 P 50 44.50 0.0
 50 54.90 33km
 SES 85.18 39 eP 50 52.00 -0.1
 51 03.00 35km
 KEV 85.51 343 eP 50 53.00 -0.3
 51 04.00 35km
 SOD 86.96 341 iP 50 58.50 -2.0
 51 11.30 42km
 DUG 87.17 49 P 51 02.50 0.2
 51 13.00 33km
 MSU 88.17 51 P 50 58.00 -9.2X

DAU 88.24 49 P 51 06.80 -0.8
 SUF 89.77 337 eP 51 13.00 -1.0
 ALO 93.70 52 e(P) 51 33.00 0.1
 NAO 96.46 340 P 51 44.10 -0.8
 0.7s 1.10nm 4.5mb
 KIC 145.08 307 PKP 57 53.84 -0.6
 0.9s 13.00nm
 TIC 145.12 307 PKP 57 53.86 -0.6
 LIC 145.39 307 PKP 57 54.78 -0.1
 ZOBO 145.58 96 PKP 57 58.00 2.1
 LPB 145.62 97 ePKP 57 54.00 -1.8
 CNCB 145.75 97 PKP 57 57.80 1.6
 S.D. = 1.0 on 44 of 49 abs.

& AUG 19, 1990 21h 51m 34.14s
 62.336 N 149.647 W
 DEPTH = 66.6km
 CENTRAL ALASKA (1)
 <AGS-P>.

CUT 0.30 284 iP 51 44.66 -0.4
 51 52.09
 HUR 0.64 0 eP 51 48.47 0.1
 51 59.09
 GH0 0.66 149 iP 51 47.84 -0.8
 51 58.43
 PWA 0.70 189 iP 51 48.12 -0.8
 PLRM 0.79 162 iP 51 48.99 -1.0
 52 00.93
 SML 0.81 130 iP 51 49.53 -0.9
 52 02.28
 SKT 0.95 249 eP 51 51.68 -0.5
 52 05.69
 SUA 1.02 211 eP 51 52.78 -0.3
 52 08.02
 PMS 1.10 178 eP 51 53.39 -0.6
 52 08.44
 SCM 1.20 114 eP 51 55.13 -0.3
 KTH 1.35 335 eP 51 58.09 0.6
 52 16.14
 MCK 1.44 13 eP 51 59.28 0.7
 NCG 1.51 233 eP 51 59.65 -0.1
 CGLM 1.52 228 eP 51 59.73 -0.1
 CRP 1.60 229 eP 52 01.16 0.2
 SPU 1.63 226 iP 52 01.57 0.3
 TOA 1.64 97 eP 52 02.32 0.9
 BGL 1.69 232 eP 52 02.67 0.6
 CKL 1.72 229 eP 52 02.57 0.1
 SLKM 1.86 189 eP 52 04.61 0.3
 VZW 1.95 130 iP 52 05.31 -0.4
 KLU 1.96 114 iP 52 05.31 -0.5
 VLT 1.99 126 eP 52 05.40 -0.7
 RDZ 2.21 218 iP 52 09.43 0.1
 WRH 2.26 17 eP 52 10.00 0.2
 DDM 2.26 48 eP 52 12.08 2.1
 HDA 2.41 29 eP 52 11.87 -0.1
 RED 2.44 219 eP 52 10.48 -2.1
 CCB 2.46 19 eP 52 12.62 -0.1
 GLB 2.91 105 eP 52 17.65 -1.4
 CNPM 2.92 196 P 52 19.07 -0.2
 31 abs. associated

% AUG 19, 1990 23h 29m 31.57±0.92s
 37.524 N ±10.8km 4.309 W ±7.7km
 DEPTH = 10.0km (geophysicist)
 SPAIN (377)
 mbLg 2.9 (MDD).

AFC 0.67 114 iPgC 29 45.30 0.4
 eSg 29 54.60
 EBAN 0.76 33 iPgC 29 47.70 1.2
 eSg 29 58.40
 MAL 0.80 186 iPgC 29 55.50 8.4X
 EH0R 0.80 292 iPgC 29 47.00 -0.1
 eSg 29 57.80
 EPRU 0.92 233 iPgD 29 49.30 0.1
 eSg 30 01.00
 EVIA 1.81 51 iPn 30 01.50 -1.6
 iSn 30 24.00
 S.D. = 1.4 on 5 of 6 obs.

AUG 20, 1990 00h 03m 52.78±0.08s
 46.189 N ±1.7km 142.289 E ±1.8km
 DEPTH = 309.4km (4 depth phases)
 5.9mb (86 obs.)
 SAKHALIN ISLAND (662)
 mb 6.2 (BRK).

FAULT PLANE SOLUTION: P-Waves
 NP1:Strike=165 Dip=65 Slip= 25
 NP2: 64 67 153
 Principal Axes:
 T P1g=35 Azm= 24
 P 2 115
 Comment: The focal mechanism is
 well controlled and
 corresponds to strike-slip
 faulting with a moderate
 reverse component. The
 preferred fault plane is not
 determined.

RADIATED ENERGY
 No. of sta: 11 Focal mech. F
 Energy 1.6±0.4*10¹³ Nm
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 30C
 Centroid Location:
 Origin Time 00:03:59.4 0.3
 Lat 46.21N FIX;Lon 142.26E FIX
 Dep 348.0 1.6 Half-duration 2.8
 Moment Tensor: Scale 10¹⁷ Nm
 Mrr=1.95 0.09 Mtt=1.12 0.14
 Mff=-3.07 0.15 Mrt=1.82 0.15
 Mrf=-0.65 0.13 Mtr=-2.94 0.12
 Principal Axes:
 T Vol= 4.24 P1g=40 Azm= 26
 N 0.36 50 211
 P -4.60 2 118
 Best Double Couple:Mo=4.4*10¹⁷
 NP1:Strike=170 Dip=61 Slip= 29
 NP2: 65 65 148

AOMJ 5.80 195 P 05 21.50 1.0
 S 06 27.00
 OFUJ 7.12 184 P 05 36.10 -0.3
 S 06 54.00
 YAMJ 8.18 193 P 05 49.20 -0.1
 MDJ 9.07 265 iPd 06 04.00 3.8X
 3.0s *****nm 6.7mb
 S 07 44.00
 ScS 18 23.50
 NIJJ 9.27 197 iP+ 06 02.70 0.0
 KAKJ 10.10 190 iP+ 06 10.90 -2.0
 MAJO 10.11 199 iPc 06 13.11 0.0
 eS 08 03.71
 MAT 10.11 199 iPc 06 12.90 -0.2
 eS 08 02.00
 MTMJ 10.17 201 iP+ 06 14.40 0.5
 CHJJ 10.43 195 iP+ 06 16.10 -0.9
 S 08 09.30
 IIDJ 11.20 199 iP+ 06 26.10 -0.3
 TSRJ 11.66 206 iP+ 06 32.50 0.5
 CN2 12.16 265 iPd 06 39.20 1.1
 3.5s 6700.00nm 6.3mb X
 eSP 07 51.00
 S 08 51.00
 ScS 18 28.00
 YONJ 12.86 214 P 06 47.20 0.6
 WKYJ 13.00 205 iP+ 06 47.70 -0.6
 TKSJ 13.72 210 iP+ 06 57.10 0.2
 SHK 13.74 215 ePc 06 58.50 1.3
 SNY 14.15 259 iPd 07 03.00 1.0
 8.0s 3000.00nm 5.7mb X
 SP 08 19.00
 iS 09 35.00
 PcS 15 29.00
 ScS 18 33.00
 SHNJ 14.75 219 P 07 08.40 -0.8
 HIA 15.47 290 iPd 07 17.11 0.1
 iS 10 00.73
 KUMJ 16.24 217 P 07 25.00 -0.2
 DL2 16.85 252 iPd 07 31.00 -0.6
 1.0s 1050.00nm 6.2mb
 SP 08 50.00
 S 10 26.00
 KAGJ 17.40 215 P 07 37.60 0.3
 BJI 19.98 261 iPd 08 03.51 0.4
 8.0s 1420.00nm 5.3mb X
 SP 09 36.00
 iS 11 34.67
 ScS 18 51.00
 TIA 21.32 251 Pd 08 17.40 1.2
 3.5s 2000.00nm 5.9mb X
 S 11 50.50

EDR	73.14	341	iPc	14	50.70	-0.3	DIM	75.70	317	iP	15	02.00	-3.7X			e	25	16.00		
	0.7s	164.00nm			5.9mb		BNS	75.76	333	iPc	15	05.00	-0.1	CDF	77.94	331	P	15	17.93	-0.1
PSN	73.19	316	iPc	14	52.00	0.5		0.8s	180.00nm			5.9mb		OGA	77.94	328	iPc	15	18.00	0.6
WARB	73.42	195	iPc	14	53.20	0.3	KMR	75.79	327	iP+	15	06.50	0.4		1.0s	288.00nm			6.0mb	
TPC	73.44	58	iP	14	53.00	-0.2			eP	16	21.00	325km	PLG	77.99	317	eP	15	18.20	-0.2	
		e		17	41.00				eS	16	56.00		THE	78.02	317	iPc	15	17.90	-0.5	
PLM	73.49	59	iP+	14	53.00	-0.6	MFT	75.81	315	iP	15	06.70	0.2	GRG	78.03	318	iPc	15	18.40	-0.2
		eS		17	44.00		BNT	75.82	314	iP	15	06.70	0.2	SLE	78.08	330	ePc	15	18.50	-0.2
CLL	73.51	330	iPc	14	52.90	-0.3	BEO	75.85	321	i(P)	15	04.50	-2.0	JVI	78.08	304	eP	15	19.80	0.8
	0.8s	470.00nm			6.3mb		PGB	75.96	318	eP	15	08.00	0.8	FEL	78.15	330	P	15	19.02	-0.2
		iPcP		15	07.40		TNS	75.98	331	iPc	15	07.40	0.2	KSL	78.17	310	eP	15	18.40	-1.0
		iS		23	51.50		DST	76.04	313	iP	15	07.20	-0.5	SAX	78.22	329	ePc	15	19.90	0.1
TNR	73.51	320	ePc	14	53.00	-0.3	PLD	76.05	317	eP	15	08.00	0.4	ANMO	78.27	51	iPc	15	21.09	0.9
BRG	73.53	329	iPc	14	53.00	-0.3	KGT	76.06	315	iP	15	08.70	1.0		1.1s	348.10nm			6.0mb	
	1.4s	85.00nm			5.3mb	KDZ	76.06	316	iPc	15	09.00	1.2	ALO	78.27	51	iPc	15	21.00	0.8	
		iP		15	07.40	51kmX	RYD	76.31	291	iPc	15	04.00	-5.4X		1.0s	235.00nm			5.9mb	
		iPcP		15	25.20		ENN	76.33	333	iPc	15	09.00	0.0	ECB	78.30	341	iPc	15	20.40	0.6
		iS		23	52.00			0.8s	170.00nm			5.8mb		0.9s	922.00nm				6.6mb	
		i		24	20.60				e	17	51.50		ZLA	78.36	330	eP+	15	20.20	-0.1	
BUC	73.63	318	eP	14	53.00	-0.9	ALN	76.34	316	iPc	15	09.30	0.1	ECP	78.38	341	iPc	15	20.80	0.6
PSZ	73.63	324	iP	14	53.90	-0.1	RZN	76.37	317	iPc	15	10.00	0.3		0.7s	762.00nm			6.6mb	
ANTO	73.69	311	ePc	14	55.05	0.5	MJMA	76.37	293	iPc	15	09.30	-0.4	SMG	78.39	313	eP	15	20.00	-0.5
BBTK	73.73	311	iPc	14	55.00	0.2	RDO	76.39	316	eP	15	09.90	0.4	OSS	78.42	329	ePc	15	21.10	0.3
ELO	73.81	341	iPc	14	54.60	-0.3	SCH	76.40	17	ePc	15	09.30	-0.1	MOF	78.47	331	P	15	20.66	-0.2
BRS	73.85	170	iPd	14	56.00	0.7		0.7s	411.00nm			6.3mb	SDA	78.50	320	eP	15	19.50	-1.5	
		ePP		16	10.00		MEM	76.44	333	iPc	15	09.53	-0.1	VITF	78.53	332	P	15	21.08	0.0</

20d 01h

MRWA 2.60 352 eS 01 16.30
eP 01 16.60 0.2
eS 01 49.20
S.D. = 0.3 on 5 of 5 obs.

% AUG 20, 1990 01h 26m 38.59± 2.62s
48.896 N ±22.5km 0.401 W ± 8.8km
DEPTH = 22.2 ± 5.8 km

FRANCE (538)
ML 2.8 (LDG).

FLN 0.14 202 Pg 26 42.40 -0.9
Sg 26 46.30
LDF 0.35 149 Pg 26 46.40 0.1
Sg 26 52.90
GRR 0.59 211 Pg 26 50.30 0.1
Sg 26 59.50
LPF 0.96 206 Pg 26 57.40 0.9
Sg 27 11.30
MFF 2.30 176 Pn 27 16.40 0.5
Pg 27 20.80
Sg 27 52.80
LSF 2.95 153 Pg 27 34.20 9.1X
Sn 27 59.20
Sg 28 12.30
TCF 3.15 145 Pn 27 28.20 0.2
Pg 27 38.30
Sn 28 04.80
Sg 28 17.40
SSF 3.20 124 Pn 27 29.20 0.5
Pg 27 37.80
Sg 28 17.90
BGF 3.21 136 Pn 27 28.50 -0.2
Pg 27 38.60
Sg 28 21.30
LOR 3.29 118 Pn 27 30.50 0.6
Pg 27 39.80
Sg 28 22.00
AVF 3.29 128 Pn 27 29.60 -0.3
Pg 27 39.00
Sg 28 22.60
LBF 3.51 121 Pg 27 43.00 9.9X
Sg 28 29.20
SMF 3.64 127 Pn 27 34.90 0.0
Pg 27 47.00
Sg 28 33.60
RJF 3.82 159 Pn 27 36.40 -1.1
Pg 27 52.20
Sg 28 40.20
LFF 4.04 168 Pg 27 56.00 15.5X
Sg 28 46.60
CAF 4.32 156 Pn 27 44.00 -0.5
Pg 27 59.00
Sg 28 56.80
S.D. = 0.7 on 13 of 16 obs.

* AUG 20, 1990 02h 40m 45.27± 1.64s
33.602 S ±15.0km 67.700 W ±18.1km
DEPTH = 190.4 ± 6.4 km
4.5mb (7 obs.)

MENDOZA PROVINCE, ARGENTINA (139)

MDZ 1.20 306 iP 41 17.00 1.1
iS 41 39.90
RTCV 1.87 338 iPc 41 21.80 -0.4
CFA 2.04 347 iPc 41 23.40 -0.5
eS 41 50.00
FCH 2.18 276 eP 41 26.20 0.4
iS 41 59.60
PCH 2.35 269 iPd 41 27.90 0.5
iS 42 00.00
RTLL 2.36 344 iPc 41 26.80 -0.6
RTBS 2.44 322 ePd 41 28.20 0.0
SAN 2.48 273 iPd 41 29.00 0.2
iS 42 00.50
CHCH 2.48 262 iPd 41 29.40 0.6
iS 42 02.00
PEL 2.54 280 iPc 41 29.50 0.0
iS 42 02.00
JACH 2.59 290 iPc 41 30.20 0.0
iS 42 03.00
TACH 2.70 268 iPd 41 30.50 -0.8
iS 42 04.10
ROCH 2.84 282 iPd 41 32.20 -1.0
iS 42 06.60
LCCH 3.23 271 iPd 41 37.20 -0.5
iS 42 14.50

IHA 3.35 279 iPc 41 38.90 -0.2
i(S) 42 15.50
RTRS 3.73 336 iP 41 44.00 0.1
CCH 16.21 5 P 44 25.00 0.8
CNCB 16.72 359 P 44 32.00 1.3
LPB 17.00 359 P 44 35.00 1.1
ZOBO 17.26 359 P 44 37.20 0.2
SIV 18.53 20 P 44 49.00 -0.9
NNA 23.08 337 iP 45 35.10 -0.1
SPA 56.58 180 iPd 50 22.40 12.3X
1.1s 19.05nm
TKL 70.52 346 P 51 39.20 -1.8
RSCP 70.84 345 P 51 41.60 -1.3
0.7s 29.41nm
BLA 71.44 349 P 51 45.80 -0.7
0.8s 14.26nm
UYO 71.94 337 iPd 51 48.60 -0.8
ELC 73.32 342 P 51 55.20 -2.2
TUL 73.97 337 e(P) 52 00.00 -1.2
0.8s 2.20nm
FVM 74.29 342 P 52 01.80 -1.2
ALQ 77.25 328 ePc 52 20.20 0.3
1.0s 7.00nm
ANMO 77.26 328 P 52 20.30 0.4
0.9s 5.25nm
WNY 77.82 355 P 52 22.80 0.2
RSNY 78.03 355 P 52 24.00 0.3
0.7s 9.80nm
GLA 79.75 321 P 52 34.30 1.0
CBM 80.16 360 P 52 35.90 0.8
GOL 80.84 331 P 52 39.40 0.2
0.8s 8.18nm
PLM 81.06 320 P 52 41.20 0.8
PEC 81.63 320 P 52 44.10 1.0
MSU 82.78 326 P 52 50.00 0.8
ABL 83.47 320 P 52 53.50 0.7
DAU 83.91 328 P 52 55.90 0.9
KVN 86.06 323 P 53 05.80 0.2
LBFM 89.70 322 P 53 23.20 0.3
S.D. = 0.9 on 43 of 44 obs.

* AUG 20, 1990 02h 42m 12.23± 4.64s
51.296 N ±32.9km 16.043 E ±28.1km
DEPTH = 10.0km (geophysicist)

POLAND (548)

KSP 0.48 161 iP 42 21.70 -0.3
iS 42 30.00
BRG 1.39 253 iPg 42 36.50 -1.1
iSg 42 56.60
PRU 1.62 217 ePg 42 42.00 1.1
e 42 44.00
Sn 42 58.30
Sg 43 04.90
CLL 1.91 272 ePg 42 46.00 0.9
eSg 43 12.00
KHC 2.68 217 ePn 42 56.50 0.2
Pg 43 02.20
Sn 43 30.00
Sg 43 43.00
MOX 2.87 259 ePg 43 05.00 6.1X
eSg 43 45.00
GRF 3.47 244 e(Pn) 43 06.50 -0.9
ePg 43 19.20
eSg 44 04.80
S.D. = 1.2 on 6 of 7 obs.

* AUG 20, 1990 03h 12m 58.87± 1.98s
32.368 S ± 7.8km 71.878 W ±17.8km
DEPTH = 33.0km (normal)

NEAR COAST OF CENTRAL CHILE (135)

IHA 0.69 163 eP 13 12.00 -0.1
iS 13 24.20
ROCH 0.95 130 iPd 13 15.00 -1.1
iS 13 30.00
JACH 1.13 186 iPd 13 16.90 -1.6
i 13 38.00
LCCH 1.13 167 iPc 13 18.40 -0.1
iS 13 36.50
PEL 1.27 128 iPd 13 20.10 -0.3
iS 13 39.50
SAN 1.49 137 iPc 13 23.40 -0.2
iS 13 46.40
TACH 1.51 149 iPc 13 24.50 0.7
i 13 48.50
FCH 1.64 126 iPc 13 25.70 -0.4

PCH 1.70 138 iS 13 48.80
CHCH 1.87 147 iPc 13 27.00 0.3
iP 13 29.70 0.5
i 13 58.00
RTBS 2.18 72 ePc 13 33.60 0.2
MDZ 2.61 102 eP 13 41.70 2.0
i 14 09.70
i 14 18.10
ZON 2.84 74 eP 13 43.50 0.6
RTCV 2.88 81 ePd 13 44.00 0.5
RTRS 3.01 44 e(P) 13 45.00 -0.4
eS 14 20.80
RTLL 3.08 71 ePc 13 46.00 -0.4
(S) 14 29.00
CFA 3.18 77 e(P) 13 47.50 -0.3
(S) 14 30.90

S.D. = 0.8 on 17 of 17 obs.

? AUG 20, 1990 03h 27m 04.99± 9.04s
40.027 N ±80.4km 24.006 E ±13.7km
DEPTH = 10.0km (geophysicist)

AEGEAN SEA (365)

THE 1.00 308 eP 27 23.20 -0.7
eS 27 37.20
KNT 1.41 324 ePc 27 30.40 -0.3
eS 27 48.70
VAY 1.69 320 ePn 27 36.00 1.3
RZN 1.74 18 iPc 27 36.00 0.4
Sg 28 04.00
KDZ 1.94 33 eP 27 38.00 -0.4
Sg 28 08.00
PGB 2.52 3 eP 27 54.00 7.3X
Sg 28 29.00
VTS 2.63 347 iP 27 48.00 -0.4
iSg 28 31.00

S.D. = 0.9 on 6 of 7 obs.

* AUG 20, 1990 03h 31m 00.25± 1.05s
31.719 S ±16.3km 68.866 W ± 8.3km
DEPTH = 33.0km (normal)

SAN JUAN PROVINCE, ARGENTINA (137)

RTCV 0.31 117 ePc 31 07.90 -0.4
RTBS 0.50 276 ePd 31 11.00 0.1
RTLL 0.52 41 eP 31 10.80 -0.4
CFA 0.55 78 ePd 31 12.20 0.6
S 31 20.20
RTRS 1.63 342 ePd 31 31.00 4.1X
eS 31 53.40
S.D. = 0.8 on 4 of 5 obs.

AUG 20, 1990 03h 41m 53.01± 0.54s
11.366 S ± 6.7km 118.157 E ±10.6km
DEPTH = 33.0km (normal)
4.7mb (7 obs.)

SOUTH OF SUMBAWA ISLAND (291)

MKS 6.25 12 e(P)d 43 26.50 1.2
TRT 6.55 303 iPc 43 29.30 -0.3
eS 44 38.00
MBL 9.87 171 iPd 44 14.30 -1.5
eS 45 55.00
NANU 11.41 192 eP 44 36.00 -0.8
eS 46 30.00
MEKA 15.17 179 iPc 45 25.60 -1.0
0.3s 32.00nm 5.1mb
eS 48 02.00
WB5 17.75 120 eP 45 57.90 -1.5
eS 49 03.20
WRA 17.75 121 Pd 45 58.10 -1.3
0.4s 0.90nm 3.3mb X
MRWA 17.88 186 eP 46 01.00 0.1
0.3s 19.00nm 4.7mb
eS 50 04.00
BAL 19.19 184 eP 46 18.00 1.1
0.3s 13.00nm 4.7mb
eS 49 36.00
ASPA 19.34 131 eP 46 20.90 2.1
0.5s 6.00nm 4.1mb
eS 49 42.40
COOL 19.62 172 eP 46 22.40 0.6
0.3s 9.00nm 4.5mb
eS 49 43.00
KL8 20.13 181 iPd 46 30.00 2.8
0.3s 8.00nm 4.6mb
MUN 20.59 185 eP 46 36.50 4.6X

NWAO 21.48 182 eP 50 07.00 46 46.50 5.6X
0.4s 15.00nm 4.8mb
GUN 50.02 322 P 50 46.80 -0.1
PKI 50.06 321 P 50 46.80 -0.4
DMN 50.27 321 P 50 48.60 -0.2
KKK 50.29 321 P 50 48.40 -0.5
GKN 50.84 321 P 50 52.60 -0.4
S.D. = 1.3 on 17 of 19 obs.

AUG 20, 1990 04h 08m 14.12 ± 0.66s
42.977 N ± 9.1km 17.798 E ± 6.2km
DEPTH = 5.0km (geophysicist)
ADRIATIC SEA (382)
ML 2.5 (TTG).

BRY 0.55 98 ePg 08 24.50 -0.7
eSg 08 32.50
HCY 0.74 135 ePg 08 28.00 -0.9
eSg 08 39.50
NKY 0.90 100 ePg 08 32.50 0.6
eSg 08 45.00
HVAR 1.01 282 iPg 08 34.20 0.5
iSg 08 48.70
BDV 1.03 132 ePg 08 33.10 -0.9
eSg 08 48.00
TTG 1.21 116 ePg 08 38.00 0.9
eSg 08 55.50
PLE 1.22 73 ePg 08 36.50 -0.9
eSg 08 53.50
IVA 1.55 93 ePg 08 43.50 1.1
eSg 09 05.00
PVY 1.65 103 ePn 08 45.00 1.1
eSn 09 09.00
OHR 2.91 129 e(Pn) 09 11.00 9.0X
PTJ 3.21 336 eP 09 05.80 -0.4
VOY 4.14 319 e(Pn) 09 19.00 -0.4
eSn 10 12.00
S.D. = 0.9 on 11 of 12 obs.

? AUG 20, 1990 04h 56m 37.80 ± 0.96s
43.980 N ± 11.2km 7.456 E ± 6.5km
DEPTH = 5.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
MD 1.0 (STR).

AUTN 0.03 306 Pg 56 39.17 0.0
Sg 56 40.31
SAOF 0.07 85 Pg 56 39.60 0.0
Sg 56 41.07
AURF 0.13 225 Pg 56 40.62 0.0
TOUF 0.15 283 Pg 56 40.99 -0.1
Sg 56 43.41
S.D. = 0.1 on 4 of 4 obs.

AUG 20, 1990 05h 13m 03.28 ± 0.82s
32.983 S ± 9.1km 69.107 W ± 8.2km
DEPTH = 10.0km (geophysicist)
MENDOZA PROVINCE, ARGENTINA (139)
Felt (III) at Mendoza.

MDZ 0.24 65 iP 13 08.10 -0.3
iS 13 11.50
FCH 1.05 251 iPd 13 22.50 -0.8
iS 13 37.50
RTCV 1.22 23 ePc 13 24.90 -1.1
JACH 1.29 283 iPd 13 22.50 -4.7X
iS 13 37.50
PEL 1.33 263 iPd 13 27.10 -0.8
iS 13 45.10
PCH 1.34 241 iPd 13 28.00 0.0
RTBS 1.35 347 ePd 13 28.00 -0.1
SAN 1.38 250 iP 13 28.30 -0.4
iS 13 47.20
ZON 1.48 14 eP 13 28.50 -1.5
eS 13 48.50
CFA 1.56 28 ePc 13 33.20 2.1
eS 13 51.50
ROCH 1.60 270 iPd 13 31.60 -0.3
iS 13 53.10
CHCH 1.60 233 iPd 13 32.50 0.7
iS 13 54.50
TACH 1.67 246 iPc 13 33.00 0.3
iS 13 48.20
RTLL 1.73 18 iPc 13 33.10 -0.6
INA 2.13 268 eP 13 40.50 1.2
iS 14 09.00

RTRS 2.82 354 iPd 13 50.80 1.6
eS 14 27.00
S.D. = 1.1 on 15 of 16 obs.

AUG 20, 1990 07h 09m 31.21 ± 0.35s
45.856 N ± 3.9km 14.157 E ± 3.1km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 3.4 (LJU). ML 3.0 (VIE). Felt
(V) at Logotec.

CEY 0.22 122 iPg 09 35.90 -0.1
iSg 09 41.00
VOY 0.25 314 iPg 09 35.20 -1.4
eSg 09 38.10
TRI 0.31 242 iPg 09 36.50 -1.2
iSg 09 41.20
LJU 0.32 54 Pg 09 37.30 -0.6
eSg 09 42.20
VBY 0.85 114 ePg 09 47.70 0.2
iSg 09 58.60
FVI 1.21 308 P 09 55.00 1.4
eSg 10 10.50
PTJ 1.26 87 iPg 09 54.80 0.1
eSg 10 10.60
BHG 2.06 335 iPd 10 07.00 0.7
WATA 2.31 311 iPg 10 09.70 -0.4
iSg 10 39.20
OGA 2.39 296 ePn 10 10.80 -0.5
SQTA 2.45 305 iPg 10 12.20 0.2
iSg 10 42.30
SAL 2.55 266 P 10 13.50 0.2
eSn 10 42.00
PGD 2.63 222 P 10 14.50 -0.1
eSn 10 45.00
CRE 2.73 216 P 10 16.00 0.1
eSn 10 49.00
BDI 3.10 236 P 10 22.00 0.9
eSn 10 56.50
MDI 3.11 270 P 10 21.50 0.4
eSn 10 57.00
HVAR 3.14 148 iPn 10 21.60 0.0
KHC 3.30 353 Pg 10 24.20 0.2
Sg 11 13.50
S.D. = 0.7 on 18 of 18 obs.

? AUG 20, 1990 07h 16m 30.16 ± 12.45s
32.103 S ± 74.3km 70.403 W ± 97.2km
DEPTH = 100.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

RTBS 0.92 62 ePd 16 49.90 0.0
RTCV 1.60 82 ePd 16 58.20 0.0
S 17 26.50
RTLL 1.82 65 iPd 17 00.90 0.0
RTRS 2.09 23 ePc 17 04.40 0.0
S.D. = 0.1 on 4 of 4 obs.

? AUG 20, 1990 08h 01m 15.99 ± 2.68s
54.669 N ± 35.4km 159.690 W ± 33.6km
DEPTH = 33.0km (normal)
4.3mb (2 obs.)

SOUTH OF ALASKA (17)

TTA 8.50 11 eP 03 20.00 0.2
PMR 8.90 35 eP 03 25.00 -0.2
IMA 11.81 12 e(P) 03 55.00 -9.3X
FBA 11.85 25 e(P) 04 05.00 -0.5
INK 18.29 31 eP 05 29.00 0.6
NAO 64.61 5 P 11 52.10 0.3
0.6s 1.10nm 4.1mb
HFS 65.42 4 eP 11 56.60 -0.4
0.4s 2.00nm 4.6mb
S.D. = 0.6 on 6 of 7 obs.

% AUG 20, 1990 09h 29m 01.19 ± 0.92s
39.089 N ± 7.5km 27.632 E ± 9.6km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

IZM 0.75 203 iPg 29 15.90 0.0
iSg 29 27.90
DST 0.93 56 iPn 29 18.90 -0.1
EZN 1.25 306 iPn 29 24.40 0.0
EDC 1.27 8 iPn 29 24.10 -0.6
BNT 1.28 10 iPn 29 25.70 0.7
S.D. = 0.7 on 5 of 5 obs.

* AUG 20, 1990 09h 34m 47.53 ± 3.48s
31.547 S ± 17.8km 68.865 W ± 12.1km
DEPTH = 68.7 ± 37.9 km
SAN JUAN PROVINCE, ARGENTINA (137)

ZON 0.16 90 iPd 34 58.00 -0.3
eS 35 09.50
RTLL 0.40 57 iPc 34 59.80 0.2
RTCV 0.42 138 iPc 34 59.50 -0.2
RTBS 0.51 257 iPd 35 00.70 0.2
CFA 0.54 97 eP 35 01.00 0.2
RTRS 1.46 339 iPc 35 12.20 -0.1
eS 35 32.90
S.D. = 0.4 on 6 of 6 obs.

AUG 20, 1990 09h 37m 16.31 ± 0.17s
60.378 N ± 2.1km 151.839 W ± 2.5km
DEPTH = 82.4 ± 2.0 km
4.7mb (20 obs.)
KENAI PENINSULA, ALASKA (14)
Felt (IV) at Ninilchik; (III) at
Kosilof, Kenai and Soldotna;
(II) at Anchorage.

RDT 0.34 305 iP 37 29.13 -0.3
eS 37 38.96
NNL 0.43 141 iP 37 29.81 -0.1
RED 0.46 275 iP 37 30.12 -0.2
NKA 0.47 39 iP 37 31.66 1.5
HOM 0.73 172 eP 37 31.98 -0.7
BRK 0.78 142 eP 37 32.11 -1.2
SLKM 0.81 80 iP 37 32.51 -1.1
eS 37 44.99
SPU 0.81 353 iP 37 34.08 0.4
eS 37 47.46
CKL 0.86 344 iP 37 34.93 0.7
CRP 0.91 350 iP 37 35.72 0.9
CNPM 0.91 160 iP 37 33.72 -1.0
eS 37 46.13
XLV 0.93 176 iP 37 33.85 -1.1
eS 37 46.83
BGL 0.93 343 iP 37 36.06 1.0
CGLM 0.94 355 iP 37 36.00 0.9
eS 37 50.58
NCG 1.04 352 iP 37 37.47 1.1
SUA 1.21 26 iP 37 39.14 0.6
eS 37 56.50
SEW 1.22 102 iP 37 37.18 -1.3
eS 37 52.67
AUE 1.28 218 iP 37 39.25 0.0
AUI 1.32 218 eP 37 39.70 0.0
PMS 1.42 51 iP 37 40.93 -0.1
PWA 1.59 36 iP 37 43.83 0.5
SKT 1.61 5 eP 37 44.44 0.8
CDD 1.72 213 iP 37 44.75 -0.3
MCNL 1.74 228 iP 37 44.95 -0.4
SHU 1.77 189 eP 37 45.20 -0.5
PLRM 1.80 46 iP 37 45.73 -0.3
PMR 1.80 46 iPc 37 45.80 -0.2
GHO 1.99 44 iP 37 48.50 -0.3
SVW 2.00 293 iPd 37 48.70 -0.1
CUT 2.17 20 eP 37 51.92 0.8
SML 2.23 48 iP 37 51.51 -0.4
SCM 2.63 54 eP 37 56.82 -0.7
VZW 2.69 73 eP 37 56.08 -2.2X
VLZ 2.81 72 eP 37 57.84 -2.0X
HUR 2.81 21 eP 38 00.98 1.0
MID 2.93 107 eP 37 59.63 -1.9X
KLU 3.10 66 iP 38 02.48 -1.5
KTH 3.22 7 eP 38 06.27 0.7
TOA 3.24 55 iPd 38 05.80 -0.2
TTA 3.24 324 iPd 38 06.60 0.6
MCK 3.63 21 eP 38 11.99 0.6
GLB 4.06 71 eP 38 15.02 -2.4X
DDM 4.43 37 eP 38 23.66 1.2
WRH 4.46 21 eP 38 22.42 -0.5
TGL 4.46 81 eP 38 20.43 -2.6X
HDA 4.64 27 eP 38 25.29 -0.1
CCB 4.67 22 eP 38 25.33 -0.5
eS 39 18.90
BALM 4.71 78 eP 38 23.66 -2.8X
FBA 4.91 21 iPd 38 29.00 -0.1
DOT 4.92 45 eP 38 28.26 -1.0
GLM 5.06 22 eP 38 30.87 -0.4
eS 39 27.83
TMW 5.12 51 eP 38 31.07 -1.1

SOP 13.87 51 eP 25 52.10 1.6
 ZST 14.43 50 eP 25 53.40 -4.5X
 KSP 15.44 40 eP 26 01.80 -9.3X
 S.D. = 1.4 on 14 of 18 obs.

* AUG 20, 1990 13h 16m 00.84 ± 0.57s
 11.319 S ± 7.9km 162.077 E ± 10.9km
 DEPTH = 33.0km (normal)
 4.7mb (5 obs.)

SOLOMON ISLANDS (193)

HNR 2.81 312 eP 16 45.00 0.6
 iS 17 23.00
 DZM 11.48 159 iPc 18 44.30 -1.4
 iS 20 50.80
 CTA 17.54 238 iPc 20 05.90 1.3
 1.0s 78.00nm 4.8mb
 iS 23 34.00
 BRS 18.22 207 iP 20 14.00 1.0
 RMO 19.63 218 eP 20 30.00 0.2
 1.0s 147.00nm 5.2mb
 COO 21.37 205 eP 20 49.00 1.3
 OIS 23.45 244 iPd 21 09.00 0.6
 CMS 25.07 214 eP 21 23.00 -0.9
 BWA 26.16 206 eP 21 33.80 -0.3
 CAN 26.68 204 eP 21 40.00 1.1
 STK 27.86 220 eP 21 50.10 0.6
 1.8s 40.00nm 4.8mb
 WRA 28.02 249 Pc 21 50.30 -0.8
 0.8s 7.00nm 4.4mb
 ASPA 29.48 242 eP 22 01.90 -2.4
 0.7s 9.00nm 4.6mb
 TOO 30.08 207 eP 22 10.00 0.5
 FORR 36.97 233 eP 23 08.40 -0.6
 CHTO 69.06 295 (P) 27 04.20 -1.8
 FBA 84.73 19 P 28 34.40 1.9
 KVN 89.28 50 P 28 56.40 0.9
 NAO 126.25 343 PKP 35 02.20 0.8
 0.9s 3.60nm
 BAO 143.27 262 iPKPd 35 31.00 -3.5X
 0.5s 7.00nm
 ASMO 151.11 336 ePKP 35 46.30 -0.3
 AAPN 151.30 337 ePKP 35 46.00 -0.9
 APHE 151.44 336 ePKP 35 47.70 0.6
 ALOJ 151.47 336 ePKP 35 45.00 -2.2
 ATEJ 151.60 336 ePKP 35 47.60 0.2
 S.D. = 1.2 on 24 of 25 obs.

* AUG 20, 1990 13h 16m 33.78 ± 0.51s
 40.076 N ± 4.5km 29.357 E ± 4.2km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

IZI 0.28 19 iPg 16 39.80 0.2
 iSg 16 43.90
 DST 0.73 230 ePg 16 47.70 -0.5
 eSg 16 57.70
 GPA 0.76 73 ePg 16 48.00 -0.7
 HRT 0.78 18 iPn 16 48.90 -0.1
 EYL 0.78 51 ePn 16 49.40 0.3
 ISK 1.01 347 iPn 16 52.90 0.0
 BNT 1.14 285 iPn 16 54.80 -0.2
 ALT 1.17 150 ePn 16 56.30 0.5
 EDC 1.18 284 iPn 16 56.20 0.5
 CTT 1.28 327 iPn 16 57.60 0.1
 S.D. = 0.4 on 10 of 10 obs.

* AUG 20, 1990 13h 20m 53.54 ± 0.60s
 4.477 S ± 10.9km 125.721 E ± 13.1km
 DEPTH = 33.0km (normal)
 4.8mb (5 obs.)

BANDA SEA (280)

AAI 2.59 72 ePd 21 35.00 1.0
 eS 21 58.00
 MKS 6.27 263 ePc 22 37.50 11.3X
 MTN 9.88 148 iPc 23 15.00 -1.5
 WRA 17.52 152 Pd 24 53.70 -3.3X
 0.8s 14.30nm 4.2mb
 ASPA 20.65 158 iPc 25 34.80 1.7
 0.8s 61.00nm 5.0mb
 Z 24s 0.50um 3.8mszX
 LR 32 23.30
 OIS 20.93 141 iPc 25 35.20 -0.8
 0.9s 50.00nm 4.9mb
 PMG 21.83 104 eP 25 43.00 -2.1
 CTA 25.31 130 iPd 26 19.00 0.0

1.0s 79.00nm 5.3mb
 IPM 26.26 290 ePc 26 26.00 -1.8
 STK 31.06 153 eP 27 11.50 0.6
 BWA 36.49 148 eP 28 01.10 3.4X
 CAN 37.48 148 eP 28 07.60 1.6
 CD2 40.97 331 eP 28 36.20 1.2
 XAN 41.46 339 P 28 39.80 0.7
 MAT 42.44 15 iPc 28 42.90 -4.1X
 TIY 43.76 345 eP 28 57.20 -0.6
 Z 16s 0.70um 4.7mszX

BJI 45.16 350 eP 29 07.00 -1.9
 LZH 45.26 335 eP 29 09.30 -0.7
 GTA 49.78 334 eP 29 46.40 1.1
 0.8s 5.00nm 4.6mb
 WMO 59.00 329 P 30 54.00 1.4
 S.D. = 1.4 on 16 of 20 obs.

AUG 20, 1990 13h 33m 36.51 ± 0.26s
 47.175 N ± 2.7km 11.256 E ± 2.4km
 DEPTH = 10.0km (geophysicist)

AUSTRIA (546)

MD 4.0 (STR), 3.6 (TRI), ML 3.9
 (GRF), 3.9 (FUR), 3.8 (LDG), 3.8
 (KBA). Felt (V) in the Brenner
 oreo.

SOTA 0.06 325 iPg 33 39.30 0.4
 iSg 33 41.80
 WATA 0.27 53 iPg 33 42.00 -0.3
 iSg 33 46.80
 OGA 0.35 207 iPg 33 42.40 -1.3
 OSS 0.91 238 iPc 33 52.70 -1.3
 FUR 0.99 1 iPg 33 56.70 1.4
 FVI 1.20 119 P 33 57.50 -1.3
 eSg 34 13.00
 BHG 1.23 63 ePg 33 59.80 0.4
 SAX 1.31 274 ePd 34 01.90 1.0
 VDL 1.41 241 ePd 34 01.40 -1.0
 KBA 1.43 93 iPg 34 01.60 -1.1
 iSg 34 19.10
 VVI 1.44 146 P 34 03.00 0.4
 eSg 34 21.00
 LLS 1.58 260 ePd 34 05.40 0.7
 SAL 1.65 198 P 34 07.00 1.4
 eSn 34 29.00
 MDI 1.76 218 P 34 09.50 2.3
 eSn 34 34.50
 TMA 1.96 238 ePc 34 12.10 1.8
 SLE 1.97 289 ePd 34 11.40 1.2
 ZLA 1.97 280 ePd 34 12.20 1.8
 STU 2.11 320 ePnd 34 16.00 3.6X
 0.8s 104.48nm

e(Pg)c 34 19.00
 KMR 2.14 65 iPg+ 34 15.50 2.8
 iSg 34 44.60
 VOY 2.15 121 ePn 34 12.60 -0.3
 ePg 34 19.00
 eSn 34 41.00
 eSg 34 49.60
 WET 2.25 28 iPnd 34 14.30 -0.1
 TRI 2.27 129 iPnc 34 14.50 -0.1
 iPg 34 18.50
 iSn 34 44.20
 FEL 2.31 289 ePn 34 16.02 0.7
 KHC 2.50 38 iPn 34 22.70 4.8X
 Pg 34 27.00
 Sn 34 49.70
 Sg 34 56.40

GRF 2.52 359 ePg 34 23.90 5.8X
 eSg 34 58.70
 LJU 2.53 115 ePn 34 18.80 0.6
 e 34 22.00
 eSn 34 48.60

MMK 2.53 245 ePd 34 19.70 1.2
 BBS 2.57 278 Pn 34 19.91 1.1
 Pg 34 25.30
 Sg 34 59.97
 CEY 2.62 122 ePn 34 20.00 0.4
 eSn 34 53.00

ORX 2.74 237 P 34 22.40 1.0
 S 34 55.91
 ORO 2.75 237 P 34 24.00 2.5
 eSn 34 56.50
 DIX 2.87 249 ePc 34 24.60 1.2
 MOF 2.88 285 Pn 34 23.90 0.6
 Pg 34 31.09
 Sg 35 09.18

TOD 2.93 327 ePn 34 23.75 -0.3
 CDF 2.96 296 Pn 34 24.60 0.2
 Sg 35 12.49
 ECH 2.96 292 Pn 34 24.45 0.1
 Sg 35 11.72
 MME 3.01 188 P 34 26.50 1.2
 LOMF 3.02 275 Pn 34 25.12 -0.2
 GWF 3.03 308 Pn 34 25.96 0.5
 Pg 34 34.85
 Sg 35 16.02
 BSF 3.10 284 Pn 34 26.42 0.0
 BDI 3.15 189 P 34 28.00 0.9
 eSn 35 04.50
 VBY 3.24 120 iPnd 34 29.00 0.7
 e(Sn) 35 05.60
 PCP 3.24 217 P 34 29.18 0.7
 S 35 03.86
 SFI 3.28 172 P 34 29.00 0.1
 eSn 35 07.00
 PGD 3.32 174 P 34 29.20 -0.5
 eSn 35 07.50
 LSD 3.32 240 P 34 31.44 1.7
 HAU 3.42 286 Pn 34 31.40 0.4
 Sn 35 11.00
 Sg 35 25.30
 CKI 3.45 218 P 34 32.50 1.2
 eSn 35 14.50
 MOX 3.48 4 ePn 34 30.50 -1.3
 ePg 34 45.00
 eSn 35 11.00
 eSg 35 29.00
 PTJ 3.49 110 ePn 34 31.30 -0.6
 eSn 35 17.00
 PII 3.49 189 P 34 32.00 0.1
 eSn 35 12.00
 ZAG 3.54 111 ePn 34 31.70 -0.8
 LPG 3.54 243 Pn 34 34.80 1.9
 LPL 3.54 244 Pn 34 34.90 2.0
 PRU 3.56 37 Pg 34 42.40 9.5X
 Sg 35 27.50
 TNS 3.57 330 iPnd 34 33.00 -0.1
 eSn 35 12.80
 eSg 35 32.40
 CRE 3.58 172 P 34 34.00 0.7
 VKA 3.59 70 eP 34 40.00 6.7X
 ePg 34 43.50
 iSn 35 14.90
 i 35 21.00
 iSg 35 31.40
 SOP 3.64 80 eP 34 37.20 3.2X
 FIN 3.65 217 P 34 35.34 1.0
 S 35 15.30
 ABH 3.66 319 ePn 34 34.76 0.3
 ROB 3.73 221 P 34 36.46 1.0
 S 35 15.71
 RUP 3.77 314 ePn 34 36.83 0.9
 BNI 3.83 238 P 34 39.00 2.1
 eSn 35 24.00
 RRL 3.84 236 P 34 36.46 -0.7
 S 35 15.88
 DOI 3.87 228 P 34 39.00 1.6
 eSn 35 25.00
 PZZ 3.94 229 P 34 36.67 -1.8
 S 35 16.28
 ENR 3.99 224 P 34 38.31 -0.8
 STV 4.02 225 P 34 38.72 -0.8
 IMI 4.03 217 P 34 35.95 -3.7X
 S 35 15.89
 ZST 4.08 73 i(Pn) 34 51.60 11.4X
 e(Sn) 35 30.10
 e 35 44.80
 e 35 47.00
 BRG 4.10 25 e(P) 34 48.00 7.4X
 iPg 34 54.00
 iSg 35 46.00
 SAOF 4.11 221 Pn 34 41.11 0.3
 AUTN 4.16 222 Pn 34 41.24 -0.4
 TOUF 4.23 223 Pn 34 42.32 -0.3
 SBF 4.26 220 Pn 34 43.80 0.8
 Sn 35 33.50
 AURF 4.29 221 Pn 34 43.71 0.3
 CLL 4.29 15 ePg 34 58.00 14.7X
 iSg 35 54.50
 MVIF 4.37 223 Pn 34 44.25 -0.3
 REVF 4.39 220 Pn 34 45.27 0.5
 CALN 4.60 223 Pn 34 48.15 0.4
 SRO 4.83 80 eP 35 06.50 15.6X

LBFM 87.20 47 P 24 26.00 -0.4
 CMB 87.35 51 eP 24 27.00 0.0
 FRI 87.58 52 eP 24 28.00 0.0
 MWC 88.15 55 eP 24 30.00 -1.0
 SBB 88.45 54 eP 24 32.00 -0.3
 RVR 88.64 55 eP 24 33.00 -0.2
 BAR 88.88 57 eP 24 34.00 -0.4
 PLM 88.89 56 eP 24 35.00 0.4
 CLC 88.91 53 eP 24 34.00 -0.5
 KVN 89.35 50 P 24 36.00 -0.7
 GSC 89.41 54 eP 24 38.00 1.1
 TPC 89.73 55 eP 24 38.00 -0.4
 PNT 91.04 40 eP 24 45.00 1.0
 INK 91.33 20 eP 24 46.00 1.1
 NEW 92.36 41 P 24 50.00 -0.2
 0.8s 11.46nm 5.4mb
 SES 96.69 40 eP 25 10.00 0.0
 ALO 97.66 56 eP 25 14.00 -0.9
 Z 19s 1.04um 5.3msz
 KEV 115.01 344 ePKP 30 20.00 -0.4
 SOD 116.64 342 ePKP 30 24.00 0.4
 SUF 119.73 338 iPKP 30 29.30 -0.3
 0.7s 7.20nm
 NUR 121.66 337 iPKP 30 33.00 -0.3
 0.8s 19.10nm
 ZOBO 123.45 118 PKP 30 38.00 -0.8
 UPF 124.70 339 iPKP 30 34.70 -4.4X
 AKU 125.63 0 ePKP 30 41.90 1.1
 0.9s 13.45nm
 HFS 125.81 341 ePKP 30 40.20 -1.2
 0.9s 10.70nm
 Z 19s 0.65um 5.3msz
 LR 15 27.00
 NAO 126.14 343 PKP 30 41.60 -0.4
 0.8s 7.50nm
 BBTk 126.91 312 ePKP 30 45.00 0.7
 SIV 129.58 122 PKP 30 50.20 0.3
 SPC 130.63 328 e(PKP) 30 52.70 1.5
 BZS 131.90 323 ePKP 30 49.00 -4.4X
 SRO 132.49 327 ePKP 31 05.50 11.0X
 e 34 23.90
 BRG 132.60 333 ePKP 30 54.60 0.0
 iSKP 34 22.80
 CLL 132.70 334 ePKP 31 04.00 9.2X
 ZST 132.88 328 ePKP 30 57.70 2.5
 PRU 132.95 332 ePKP 30 56.00 0.7
 Z 20s 1.20um 5.6msz
 N 20s 0.90um
 E 18s 0.70um
 e 31 06.60
 SKO 133.90 319 ePKP 30 58.00 0.6
 Z 20s 0.80um 5.4msz
 N 21s 0.51um
 E 21s 954.00um
 i 34 26.60
 KHC 134.00 331 iPKP 30 57.50 0.1
 Z 19s 1.00um 5.6msz
 N 19s 0.70um
 E 18s 0.40um
 e 31 07.00
 FNA 134.53 317 ePKPc 30 57.90 -0.8
 OHR 134.75 318 ePKP 30 58.70 -0.4
 i 34 27.80
 LJU 135.61 328 e(PKP) 31 01.00 0.5
 VOY 135.95 328 e(PKP) 31 00.90 -0.4
 MEM 136.05 338 PKP 31 04.60 3.5X
 FVI 136.14 329 PKP 30 57.00 -4.4X
 SAL 137.95 330 PKP 31 08.50 3.6X
 MDI 138.23 331 PKP 31 08.50 3.1X
 TDS 138.41 319 PKP 31 10.50 4.5X
 SFI 138.44 327 PKP 31 07.50 1.7
 PGD 138.54 327 PKP 31 00.50 -5.8X
 AZI 138.82 324 PKP 31 02.50 -4.1X
 MNS 139.00 325 PKP 31 05.00 -2.0
 BDI 139.01 328 PKP 31 06.50 -0.5
 RDP 139.38 324 PKP 31 08.00 0.3
 SOI 139.45 317 PKP 31 10.50 2.7
 LOR 139.61 337 ePKP 31 03.90 -4.0X
 1.2s 11.90nm
 Z 22s 0.88um 5.5msz
 LPL 139.81 333 ePKP 31 09.20 0.6
 0.8s 4.05nm
 LPG 139.81 333 ePKP 31 09.30 0.6
 1.0s 6.00nm
 CKI 139.91 330 PKP 31 01.00 -7.5X
 SSF 139.91 337 ePKP 31 03.90 -4.5X
 1.0s 6.00nm

BNI 140.19 332 PKP 31 04.00 -5.2X
 GRR 140.27 342 ePKP 31 02.60 -6.4X
 0.8s 8.05nm
 LPF 140.64 342 ePKP 31 03.40 -6.3X
 0.8s 14.80nm
 TCF 141.05 338 ePKP 31 06.90 -3.7X
 1.0s 6.00nm
 MFF 141.62 340 ePKP 31 06.30 -5.2X
 1.0s 14.00nm
 RJF 142.14 337 ePKP 31 08.70 -3.8X
 1.0s 8.00nm
 Z 20s 0.98um 5.6msz
 LFF 142.74 338 ePKP 31 10.10 -3.4X
 1.0s 12.00nm
 LPO 142.79 337 ePKP 31 11.10 -2.5
 0.8s 8.05nm
 BCAO 143.13 262 iPKPc 31 12.00 -3.1X
 0.8s 34.00nm
 i 31 21.30
 EPF 144.51 336 ePKP 31 15.50 -1.2
 0.9s 14.75nm
 ECRI 145.93 339 ePKP 31 20.80 1.7
 EROQ 146.33 334 ePKP 31 21.00 1.3
 ETOR 147.33 337 ePKP 31 22.50 1.1
 STS 147.40 347 e(PKP) 31 24.00 2.6
 ERUA 147.53 345 e(PKP) 31 24.00 2.4
 GUD 148.24 340 ePKP 31 24.00 1.0
 TOL 148.88 339 ePKP 31 29.00 5.1X
 EVIA 149.38 336 e(PKP) 31 30.00 5.2X
 EPLA 149.39 342 e(PKP) 31 29.30 4.6X
 EBAN 150.30 337 e(PKP) 31 31.50 5.5X
 ASMO 150.98 336 ePKP 31 26.50 -0.7
 CRT 151.07 336 ePKP 31 36.50 9.2X
 EHOR 151.14 339 e(PKP) 31 34.00 6.7X
 AAPN 151.17 336 ePKP 31 26.20 -1.3
 ACHM 151.23 336 ePKP 31 27.50 -0.1
 APHE 151.31 335 ePKP 31 27.40 -0.4
 ALOJ 151.34 336 ePKP 31 27.00 -0.8
 ATEJ 151.47 336 ePKP 31 27.50 -0.5
 MAL 151.79 336 iPKPd 31 35.00 6.7X
 EVAL 151.87 341 e(PKP) 31 35.00 6.6X
 EJIF 152.44 338 e(PKP) 31 37.00 7.8X
 IFR 154.85 334 ePKP 31 33.00 0.1
 i 31 43.50
 LIC 166.17 250 PKP 31 55.00 9.7X
 TIC 166.31 252 PKP 31 55.40 10.0X
 S.D. = 1.0 on 138 of 178 obs.
 % AUG 20, 1990 14h 22m 43.48 ± 0.61s
 38.708 N ± 5.4km 27.744 E ± 7.1km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 IZM 0.49 231 iPg 22 53.40 0.0
 iSg 23 02.90
 DST 1.13 37 iPn 23 04.70 0.0
 CIN 1.14 166 eP 23 04.00 -0.8
 KHL 1.45 105 ePn 23 11.00 1.2
 EZN 1.57 316 ePn 23 12.30 0.9
 EDC 1.64 3 ePn 23 11.20 -1.2
 BNT 1.65 5 iPn 23 12.30 -0.3
 KGT 1.77 349 iPn 23 14.80 0.4
 IZI 2.11 39 ePn 23 19.00 -0.3
 S.D. = 0.9 on 9 of 9 obs.
 ? AUG 20, 1990 15h 06m 35.88 ± 2.20s
 11.244 S ± 18.5km 162.049 E ± 23.9km
 DEPTH = 33.0km (normal)
 4.4mb (3 obs.) 4.4msz (1 obs.)
 SOLOMON ISLANDS (193)
 HNR 2.74 311 iP 07 19.50 1.0
 iS 07 57.00
 DZM 11.56 159 iPc 09 22.00 0.2
 iS 11 27.50
 CTA 17.55 238 iPd 10 41.80 2.0
 0.9s 42.86nm 4.6mb
 RMD 19.68 218 eP 11 05.00 -0.3
 COO 21.43 205 eP 11 24.00 0.7
 QIS 23.46 244 eP 11 44.00 0.5
 CMS 25.11 214 eP 12 00.00 0.7
 WB5 27.98 249 eP 12 24.60 -1.2
 WRA 28.02 249 Pd 12 24.70 -1.5
 0.7s 3.70nm 4.2mb
 ASPA 29.49 241 iPd 12 37.40 -2.0
 0.9s 8.00nm 4.5mb
 Z 19s 0.78um 4.4msz

LR 24 00.70
 S.D. = 1.4 on 10 of 10 obs.
 * AUG 20, 1990 15h 13m 50.90 ± 0.89s
 37.425 N ± 12.2km 71.114 E ± 9.0km
 DEPTH = 33.0km (normal)
 4.1mb (1 obs.)
 AFGHANISTAN-USSR BORDER REGION (717)
 QUE 8.01 207 eP 15 48.00 0.0
 eS 17 06.90
 GKN 14.75 126 P 17 19.40 0.4
 KKN 15.31 125 P 17 26.20 -0.2
 DMN 15.32 126 P 17 26.60 0.1
 PKI 15.54 125 P 17 29.20 -0.3
 GUN 15.62 123 P 17 30.60 0.0
 NAO 43.87 322 P 21 55.50 0.0
 0.9s 3.30nm 4.1mb
 S.D. = 0.3 on 7 of 7 obs.
 % AUG 20, 1990 15h 23m 21.16 ± 3.64s
 41.200 N ± 33.9km 28.480 E ± 11.4km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 CTT 0.06 216 iPg 23 22.80 -0.7
 eSg 23 28.30
 ISK 0.46 107 ePg 23 30.00 -0.5
 BNT 0.94 207 iPn 23 39.30 0.1
 HRT 0.97 112 iPn 23 39.00 0.1
 IZI 1.15 139 ePn 23 42.30 -0.3
 EYL 1.42 116 iPn 23 47.80 0.7
 S.D. = 0.6 on 6 of 6 obs.
 % AUG 20, 1990 15h 29m 18.41 ± 1.42s
 35.291 N ± 19.2km 26.055 E ± 9.4km
 DEPTH = 33.0km (normal)
 CRETE (370)
 MD 3.5 (ATH).
 NPS 0.36 266 eP 29 27.70 0.7
 KAP 0.95 74 eP 29 35.20 -0.2
 VAM 1.52 275 eP 29 43.80 0.2
 APE 1.82 347 eP 29 48.90 0.9
 VLI 2.90 300 eP 30 01.80 -1.5
 S.D. = 1.3 on 5 of 5 obs.
 ? AUG 20, 1990 16h 16m 27.31 ± 8.86s
 8.149 S ± 83.6km 129.713 E ± 20.9km
 DEPTH = 33.0km (normal)
 4.4mb (2 obs.)
 TIMOR SEA (290)
 MTN 4.87 163 eP 17 38.50 -1.7
 eS 18 54.00
 WB5 12.50 159 eP 19 26.00 0.2
 i 19 29.70
 eS 21 50.20
 WRA 12.55 160 Pd 19 26.60 0.1
 0.8s 2.60nm 4.4mb
 QIS 15.61 143 iPc 20 05.80 -0.8
 eS 22 58.00
 ASPA 15.94 166 eP 20 12.60 1.7
 0.5s 14.00nm 4.4mb
 iS 23 13.50
 MBL 16.07 215 eP 20 12.00 -0.5
 S.D. = 1.5 on 6 of 6 obs.
 * AUG 20, 1990 16h 45m 15.80 ± 1.15s
 24.811 N ± 8.9km 122.180 E ± 10.1km
 DEPTH = 10.0km (geophysicist)
 4.2mb (1 obs.)
 TAIWAN REGION (243)
 TWC 0.36 236 iPc 45 22.80 -0.4
 eS 45 25.80
 TWZ 0.62 298 iPc 45 27.90 -0.3
 ANP 0.71 302 eP 45 30.20 0.4
 eS 45 43.50
 TWD 0.90 216 ePc 45 33.60 0.5
 WB5 45.98 164 eP 53 41.00 0.0
 WRA 46.03 164 Pc 53 41.30 -0.2
 0.7s 1.90nm 4.2mb
 S.D. = 0.5 on 6 of 6 obs.
 & AUG 20, 1990 16h 49m 09.20s
 36.868 N 121.625 W

CCH 26.27 156 P 35 21.00 -1.4
 SIV 27.52 146 P 35 33.20 -0.3
 JSC 27.63 352 P 35 35.00 0.7
 GBTN 29.50 348 P 35 51.80 0.6
 RSCP 29.75 346 P 35 54.00 -0.6
 0.6s 30.19nm 5.2mb
 BLA 30.43 354 P 36 01.00 1.6
 0.8s 13.42nm 4.8mb
 FVM 33.39 340 P 36 24.80 -0.4
 ALQ 39.06 320 eP 37 14.00 0.3
 0.9s 3.78nm 4.2mb
 ANMO 39.07 320 P 37 14.20 0.5
 0.6s 2.08nm 4.1mb
 GOL 41.57 326 P 37 34.70 0.4
 0.7s 4.85nm 4.3mb
 GLA 43.84 312 P 37 53.00 0.4
 pP 38 04.00 39km
 DAU 45.44 323 P 38 05.30 -0.4
 PLM 45.49 311 P 38 06.40 0.3
 pP 38 18.00 41km
 SCH 48.54 8 ePc 38 29.70 0.2
 0.5s 23.00nm 5.5mb
 KVN 49.06 317 P 38 33.20 -0.8
 pP 38 45.40 44km
 YKA 62.04 341 eP 40 05.00 -1.9
 0.8s 5.80nm 4.8mb
 LIC 71.29 86 P 41 04.70 -1.7
 KIC 71.56 86 P 41 06.40 -1.7
 NAO 82.96 30 P 42 11.10 0.7
 0.8s 5.30nm 4.7mb
 KHC 85.17 41 eP 42 23.30 1.4
 ASPA 146.06 237 ePKP 49 24.70 -1.0
 0.8s 6.00nm
 i 49 37.80
 WB5 147.05 244 ePKP 49 26.20 -1.1
 i 49 30.10
 WRA 147.06 244 PKPd 49 30.00 2.7
 0.6s 3.80nm
 GBA 147.38 52 PKPc 49 27.20 -0.7
 0.8s 8.00nm
 S.D. = 1.2 on 32 of 33 obs.

? AUG 20, 1990 18h 37m 30.84±1.15s
 53.180 N ±12.0km 154.133 E ±27.3km
 DEPTH = 500.0km (geophysicist)
 3.8mb (3 obs.)

SEA OF OKHOTSK (663)

MAT 20.03 220 eP 41 29.00 -1.2
 KKN 55.75 272 P 46 22.00 0.4
 PKI 55.84 271 P 46 22.60 0.3
 GKN 55.99 272 P 46 23.60 0.5
 SUF 57.45 334 eP 46 33.00 0.5
 NUR 59.70 334 eP 46 46.00 -1.7
 NAO 62.63 341 P 47 07.40 0.5
 0.8s 2.70nm 3.8mb
 HFS 62.67 339 eP 47 07.00 -0.1
 0.4s 0.90nm 3.7mb
 WB5 74.74 199 eP 48 20.20 0.2
 WRA 74.81 199 Pd 48 20.90 0.5
 0.2s 0.70nm 3.8mb
 S.D. = 0.9 on 10 of 10 obs.

* AUG 20, 1990 18h 48m 53.77±1.48s
 17.067 N ±14.3km 99.633 W ±18.6km
 DEPTH = 33.0km (normol)
 GUERRERO, MEXICO (59)

ACX 0.29 228 iPc 49 01.43 0.0
 iS 49 06.67
 PPM 2.21 26 iPd 49 29.07 -0.2
 (S) 50 03.00
 UNM 2.29 11 (P) 49 30.00 -0.3
 IIT 2.32 33 eP 49 30.57 -0.1
 (S) 50 10.97
 CRX 2.33 359 eP 49 33.50 2.7X
 iS 50 39.50
 IJJ 2.65 358 eP 49 33.92 -1.7
 iS 50 08.13
 LIC 2.71 7 eP 49 38.18 1.9
 (S) 50 20.76
 MRX 3.01 331 eP 49 40.56 0.3
 eS 50 16.70
 LVVM 4.02 48 (P) 50 10.04 15.4X
 (S) 50 57.84
 S.D. = 1.3 on 7 of 9 obs.

AUG 20, 1990 18h 58m 08.59±1.29s
 10.325 S ±5.9km 161.494 E ±7.2km
 DEPTH = 74.9 ±11.4 km
 4.9mb (8 obs.)

SOLOMON ISLANDS (193)
 Felt at Honiara.

HNR 1.76 300 iPc 58 39.50 1.8
 iS 59 01.90
 PVC 9.90 139 iPc 00 27.60 -2.8
 DZM 12.61 158 iPc 01 05.50 -1.2
 iS 03 19.00
 PMG 14.16 272 eP 01 33.00 6.1X
 CTA 17.61 235 iPd 02 12.80 2.2
 1.1s 100.00nm 5.0mb
 BRS 18.86 205 iPc 02 26.00 0.3
 i 02 32.00
 RMO 20.09 215 eP 02 39.00 0.3
 COO 22.04 203 eP 02 59.00 0.6
 OIS 23.39 242 eP 03 13.00 1.4
 e 03 34.00
 CMS 25.58 212 eP 03 32.50 0.1
 e 03 34.70
 BWA 26.81 205 eP 03 42.80 -0.9
 CAN 27.36 203 eP 03 48.70 0.0
 WB5 27.82 247 iPc 03 52.50 -0.5
 i 04 07.50
 WRA 27.86 247 Pc 03 52.60 -0.8
 1.0s 18.40nm 4.7mb
 STK 28.27 218 iPd 03 56.90 0.0
 1.8s 90.00nm 5.1mb
 ASPA 29.46 240 eP 04 05.90 -1.9
 1.2s 11.00nm 4.4mb
 LR 15 25.90
 TOO 30.72 205 iPd 04 19.50 0.8
 ADE 32.15 217 iPc 04 31.00 -0.2
 KNA 32.31 257 iPd 04 32.80 0.0
 WARB 36.51 240 eP 05 08.00 -0.7
 FORR 37.12 232 eP 05 14.20 0.5
 MBL 41.40 250 iPd 05 49.70 0.3
 NANU 45.56 249 iPd 06 23.50 0.5
 0.3s 6.00nm 5.0mb
 MAT 51.51 336 (P) 07 07.00 -1.8
 MTMJ 51.71 336 P 07 09.10 -1.3
 SSE 56.48 318 Pd 07 57.60 12.3X
 1.0s 32.00nm
 ASAJ 56.83 344 eP 07 47.70 0.1
 NJ2 58.62 318 eP 08 00.00 -0.3
 MDJ 61.84 335 eP 08 21.50 -0.6
 SP 08 37.00
 IPM 62.01 281 ePc 08 23.80 0.0
 CN2 63.05 331 Pc 08 29.00 -1.1
 PP 08 42.50
 BJ1 65.35 323 eP 08 44.00 -1.1
 PP 08 59.00
 XAN 66.58 314 P 08 52.00 -1.2
 KMI 67.20 303 Pc 09 11.50 14.0X
 CHTO 68.12 295 P 09 02.80 -0.3
 HHC 68.62 321 eP 09 05.60 -0.4
 CD2 68.87 309 eP 09 07.30 -0.3
 BTO 69.44 320 eP 09 11.00 0.1
 LZH 71.21 314 eP 09 34.20 12.3X
 1.3s 38.00nm
 GTA 75.58 315 eP 09 47.20 -0.1
 1.0s 9.00nm 4.7mb
 PP 10 01.60
 SPA 79.74 180 iPc 10 10.00 0.3
 0.8s 24.17nm 5.2mb
 PKI 82.64 300 P 10 26.20 0.3
 KKN 82.81 300 P 10 27.00 0.4
 DMN 82.91 300 P 10 26.90 -0.3
 GKN 83.42 300 P 10 29.40 -0.3
 0.8s 20.00nm 5.1mb
 MAW 83.80 202 iP 10 30.70 0.1
 FBA 83.99 19 P 10 31.80 0.2
 e 10 47.10
 WMO 85.65 316 eP 10 39.00 -1.4
 PP 10 59.00
 SBB 88.26 54 eP 10 54.00 0.8
 RVR 88.46 55 eP 10 55.00 0.9
 CLC 88.70 53 eP 10 57.00 1.7
 KVN 89.08 50 P 10 58.00 0.7
 GSC 89.21 54 eP 11 01.00 3.2X
 TPC 89.55 55 eP 11 01.00 1.6
 GLA 90.33 57 eP 11 05.00 2.0
 PNT 90.60 40 eP 11 04.00 0.2
 INK 90.61 20 eP 11 04.00 0.6

ECRI 144.93 339 e(PKP)17 39.00 0.0
 ETOR 146.32 337 e(PKP)17 43.00 1.5
 GUD 147.24 340 e(PKP)17 45.50 2.5
 PDCR 149.42 137 ePKP 17 49.80 2.9
 ASMO 149.97 336 ePKP 17 45.00 -2.3
 AAPN 150.17 337 ePKP 17 45.50 -2.1
 APHE 150.30 336 ePKP 17 46.30 -1.6
 ALOJ 150.33 336 ePKP 17 49.20 1.3
 ATEJ 150.47 336 ePKP 17 46.20 -1.9
 S.D. = 1.2 on 61 of 66 obs.

* AUG 20, 1990 19h 48m 31.78±0.76s
 6.764 S ±5.9km 147.044 E ±12.7km
 DEPTH = 90.4 ±6.7 km
 4.9mb (11 obs.)

EAST PAPUA NEW GUINEA REGION (207)

LAT 0.12 339 iPd 48 46.00 0.0
 PMG 2.63 178 iPc 49 13.00 -0.1
 eS 49 43.00
 CTA 13.27 183 iPc 51 40.00 2.2
 0.8s 29.85nm 4.9mb
 OIS 15.49 207 eP 52 06.00 -0.5
 WB5 17.93 222 eP 52 36.00 -0.8
 i 52 42.90
 eS 53 49.20
 WRA 17.99 222 Pd 52 37.10 -0.4
 0.8s 8.40nm 4.0mb
 RMO 19.68 175 iPd 52 55.70 -0.7
 OLP 19.89 187 eP 52 59.00 0.5
 ASPA 21.02 216 eP 53 10.20 0.1
 1.1s 22.00nm 4.4mb
 eS 57 03.40
 COO 24.12 170 eP 53 40.00 -0.5
 STK 25.50 191 iPd 53 52.90 -0.5
 1.8s 31.00nm 4.5mb
 KLB 36.85 224 eP 55 32.00 -1.1
 MAT 43.87 350 iPd 56 29.40 -1.4
 1.0s 10.00nm 4.6mb
 CHTO 53.79 299 P 57 46.80 -0.8
 GUN 68.32 303 P 59 27.00 0.9
 0.8s 35.00nm 5.3mb
 PKI 68.59 303 P 59 28.10 0.3
 0.8s 16.00nm 5.0mb
 KKN 68.78 303 P 59 29.20 0.4
 0.8s 39.00nm 5.3mb
 DMN 68.86 303 P 59 30.00 0.7
 0.9s 56.00nm 5.4mb
 GKN 69.38 303 P 59 33.00 0.6
 0.8s 31.00nm 5.2mb
 SPA 83.28 180 iPc 00 49.90 0.3
 0.7s 9.38nm 4.8mb
 QUE 84.87 301 eP 00 59.80 1.4
 FBA 85.86 23 P 01 01.50 -0.8
 S.D. = 0.9 on 22 of 22 obs.

& AUG 20, 1990 20h 06m 07.00s
 37.403 N 118.573 W
 DEPTH = 9.0km
 CALIFORNIA-NEVADA BORDER REGION (40)
 <BRK>. ML 3.7 (BRK), 3.0 (PAS).

FRI 1.00 246 iPd 06 25.10 -0.8
 iS 06 38.00
 CMB 1.57 294 iPc 06 35.00 -0.1
 iS 06 55.30
 KVN 1.69 13 eP 06 36.20 -0.8
 ISA 1.74 177 eP 06 38.50 0.9
 CLC 1.77 153 eP 06 38.80 0.8
 PKEM 1.82 223 eP 06 39.50 0.8
 LLA 2.05 248 eP 06 43.00 0.9
 PRI 2.10 234 eP 06 43.50 0.6
 iS 07 12.00
 PHAM 2.15 224 eP 06 44.70 1.2
 ARN 2.36 270 eP 06 47.00 0.5
 SAO 2.38 255 iPc 06 48.00 1.1
 BCH 2.53 209 eP 06 49.00 0.0
 ABL 2.60 192 eP 06 50.30 0.2
 13 obs. associated

& AUG 20, 1990 20h 41m 07.36s
 59.969 N 148.821 W
 DEPTH = 0.0km
 KENAI PENINSULA, ALASKA (14)
 <AGS-P>.
 SEW 0.34 293 iP 41 13.92 -0.3

MRWA	55.67	255	eP	07	03.00	-0.9				eSKS	21	24.00		MLR	157.96	310	ePKP	17	22.00	-0.8	
	0.5s		16.00nm			5.3mb				eS	21	58.00		BUC	158.29	308	ePKPd	17	22.00	-1.0	
MBL	55.83	266	iPc	07	03.60	-1.5		ALQ	95.45	52	eP	10	50.00	-1.3	CMF	158.63	311	ePKPc	17	16.00	-7.4X
	0.4s		42.00nm			5.8mb		Z	20s		4.20um		5.9Msz	KRA	158.69	327	ePKPc	17	23.40	0.2	
SPA	56.80	180	iPd	07	12.80	1.0		ANMO	95.46	52	P	10	50.50	-0.8			e	17	34.40		
	0.8s		119.58nm			6.0mb		Z	18s		4.12um		5.9Msz			e	17	59.00			
Z	20s		6.44um			5.7Msz		TIY	95.81	312	eP	10	53.40	0.7			e	21	18.00		
			i	07	43.40			Z	22s		1.40um		5.4Msz	SPC	159.14	325	ePKP	17	23.50	-0.5	
HON	57.65	22	P	07	30.00	12.1X		N	15s		0.90um					i	18	02.00			
Z	18s		1.80um			5.2Msz					SS	22	24.00		KSP	159.62	333	ePKP	17	24.20	-0.1
GUMO	58.58	317	eP	07	26.00	1.5		DAU	95.84	45	P	10	51.50	-1.6			ic	18	03.50		
			eS	15	24.00			XAN	95.87	307	eP	10	54.00	1.0			e	21	38.00		
NANU	58.79	262	eP	07	25.00	-1.0		CNCB	96.76	115	P	10	59.00	0.9	GZR	159.99	313	ePKPd	17	19.00	-5.9X
	0.3s		24.00nm			5.8mb		LPB	96.83	115	eP	11	13.00	14.7X	PSZ	160.16	322	ePKP	17	25.20	0.2
MAW	69.52	201	iPd-	08	36.90	1.5		Z	22s		1.48um		5.4Msz	CLL	160.34	339	ePKP	17	24.00	-1.0	
MAT	80.66	326	eP	09	39.00	-0.4					LR	42	26.00				i	180	00nm		
	1.2s		26.56nm			5.1mb		ZOBO	96.97	115	P	10	49.00	-10.1X			e	18	06.30		
Z	20s		1.06um			5.2Msz		Z	18s		0.76um		5.2Msz			iPP	21	45.00			
			eS			20	50.00				S	21	40.00		BRG	160.43	337	iPKP	17	25.30	0.2
OFUJ	81.19	329	eP	09	42.40	0.3					LR	42	28.00				i	18	07.00		
PCH	84.76	127	eP	10	01.00	0.1		PNT	97.31	34	eP	10	59.00	-0.1			i	18	21.20		
SAN	84.76	127	eP	10	00.50	-0.3			0.8s		6.00nm		5.2mb				i	18	35.50		
PEL	84.93	126	iPd	10	01.60	-0.1		NEW	97.79	36	P	10	50.00	-11.3X			i	18	58.40		
	1.0s		35.00nm			5.5mb		Z	18s		5.19um		6.1Msz			i	23	05.00			
SSE	86.03	311	Pd	10	08.00	1.1		BW06	98.31	44	P	11	02.20	-1.8			e	28	32.00		
	6.0s		1300.00nm			6.3mb X			0.8s		2.68nm		4.8mb			e	35	20.00			
Z	20s		1.50um			5.4Msz		GOL	98.98	48	P	11	00.00	-7.1X	BZS	160.57	315	ePKP	17	25.00	-0.4
			S	20	34.00			Z	20s		2.00um		5.6Msz		BUD	160.89					

T Val= 9.78 Plg=15 Azm=319
 N -1.01 0 50
 P -0.77 75 141
 Best Double Couple: Mo=9.3*10**17
 NP1: Strike= 49 Dip=30 Slip= -91
 NP2: 230 60 -90
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 14S, 33C
 Centroid Location:
 Origin Time 14:13: 6.7 0.2
 Lot 28.00S 0.03 Lon 104.12W 0.03
 Dep 15.0 FIX Half-duration 3.8
 Moment Tensor: Scale 10**17 Nm
 Mrr=-9.92 0.20 Mtt= 1.68 0.22
 Mff= 8.25 0.28 Mrt=-2.51 0.67
 Mrf=-3.80 0.85 Mtf= 3.70 0.23
 Principal Axes:
 T Val= 10.88 Plg=12 Azm=115
 N 0.06 3 206
 P -10.94 77 312
 Best Double Couple: Mo=1.1*10**18
 NP1: Strike=200 Dip=33 Slip= -96
 NP2: 28 57 -86

LCCH 28.73 110 iPc 19 06.00 1.7
 LNV 28.89 111 iPd 19 06.50 0.7
 ROCH 29.17 109 iPd 19 10.00 1.3
 TACH 29.26 110 eP 19 10.50 1.3
 PEL 29.45 109 iPc 19 12.00 1.0
 1.4s 255.81nm 5.8mb
 SAN 29.48 110 ePd 19 12.00 0.8
 JACH 29.52 108 iPd 19 12.60 1.0
 CHCH 29.52 111 ePd 19 12.50 1.0
 PCH 29.62 110 ePd 19 13.50 1.0
 PT10 29.81 64 iP 19 15.00 0.7
 PT08 30.22 65 iP 19 34.00 15.7X
 RTRS 30.54 103 e(P) 19 21.20 0.6
 ANT 30.70 91 iPc 19 22.50 0.4
 ZON 31.15 106 eP 19 26.50 0.5
 RTLL 31.33 106 ePd 19 27.50 -0.1
 CFA 31.52 106 ePd 19 29.00 0.5
 ARE 32.22 77 eP 19 37.00 1.2
 CNCB 35.13 80 iPd 20 03.00 1.7
 LPB 35.14 80 P 20 04.00 2.8X
 1.2s 234.38nm 5.9mb
 S 25 42.00
 LR 30 10.00
 ZOBO 35.23 79 iPd 20 02.31 0.2
 iPc 20 05.79 12kmX
 iSpC 20 06.95
 S 25 06.00
 LR 30 00.00
 PSO 38.53 47 eP 20 32.00 2.3
 LPA 40.03 112 eP+ 20 43.00 1.4
 Z 20s 7.09um 5.5msz
 eS 26 50.00
 TBI 40.86 265 iP 20 49.40 0.9
 1.4s 305.00nm 5.8mb
 SIV 41.53 83 Pd 20 54.20 0.0
 RUV 41.79 278 iP 20 57.60 1.4
 1.5s 225.00nm 5.7mb
 VAH 41.98 278 iP 20 59.20 1.4
 1.5s 215.00nm 5.7mb
 TPT 42.08 278 iP 20 59.90 1.3
 1.5s 280.00nm 5.8mb
 PMQ 42.31 278 iP 21 01.00 1.3
 1.5s 175.00nm 5.6mb
 TVO 42.43 273 iP 21 03.70 2.1
 1.5s 455.00nm 6.0mb
 PPN 42.69 274 iP 21 05.50 1.9
 1.5s 320.00nm 5.8mb
 PAE 42.77 273 iP 21 06.40 2.1
 1.5s 575.00nm 6.1mb
 PPT 42.80 273 iP 21 06.60 2.1
 1.5s 575.00nm 6.1mb
 AFR 42.99 273 iP 21 07.20 1.1
 1.5s 410.00nm 5.9mb
 BOG 43.23 47 iPd 21 12.00 3.6X
 iS 27 53.00
 UPA 43.45 37 eP- 21 11.00 1.2
 FUQ 44.08 47 eP 21 15.00 -0.3
 OXX 44.90 10 iP 21 25.50 3.8X
 AIA 45.34 158 eP 21 24.50 0.1
 BMG 45.72 46 iPc 21 29.00 0.8
 IIT 46.59 8 (P) 21 37.00 1.9
 IJJ 47.15 6 (P) 21 42.00 2.2

SDV 48.66 47 iPc 21 51.50 0.1
 TOV 49.88 47 eP 22 00.00 -0.6
 FISA 51.29 46 eP 22 09.50 -1.8
 MORO 51.65 47 eP 22 08.30 -5.8X
 GUAC 51.85 49 eP 22 14.40 -1.3
 OLLA 52.03 49 eP 22 15.20 -1.8
 CAR 52.30 49 eP 22 18.50 -0.6
 iS 29 44.00
 LLAV 52.36 49 eP 22 18.20 -1.3
 BAO 53.26 89 ePd 22 26.00 -0.3
 BMA 54.20 99 eP 22 28.00 -5.0X
 e 22 36.00
 JFO 55.24 98 eP 22 41.10 0.5
 e 22 46.70
 BAR 60.99 348 eP 23 20.00 -0.6
 GLA 61.04 350 iPd 23 21.00 0.1
 CPE 61.26 348 eP 23 24.30 1.9
 PLM 61.68 348 iPd 23 26.00 0.6
 UYO 62.02 9 iPc 23 26.50 -1.0
 ALQ 62.12 358 ePd- 23 27.00 -1.4
 2.0s 169.12nm 5.9mb
 Z 18s 0.86um 5.0msz
 ANMO 62.13 358 iPd 23 28.00 -0.3
 1.8s 136.36nm 5.8mb
 MEO 62.16 5 iPd 23 27.30 -1.2
 PEC 62.26 348 P 23 29.00 -0.1
 TPC 62.27 349 iPd 23 29.00 -0.2
 PDCR 62.38 90 iPc 23 29.40 -1.0
 i 23 32.80
 i 23 37.00
 e 23 42.80
 e 24 09.10
 RVR 62.39 348 iPd 23 30.00 0.0
 SPA 62.67 180 iPc 23 28.20 -3.6X
 0.9s 106.36nm 6.0mb
 Z 18s 2.31um 5.4msz
 PAS 62.70 347 iP 23 31.00 -1.0
 eS 32 05.00
 eSS 36 15.00
 eSSS 39 28.00
 eLg 39 49.00
 eLR 42 36.00
 FKO 62.75 6 ePc 23 31.50 -0.8
 1.4s 433.90nm 6.4mb
 MWC 62.75 347 iPd 23 33.00 0.4
 OCO 63.00 6 ePc 23 32.90 -1.0
 1.8s 475.60nm 6.4mb
 SBA 63.13 194 iPd 23 33.80 -0.6
 SBB 63.15 347 iPd 23 35.00 -0.1
 SIO 63.34 7 eP 23 34.80 -1.4
 SYP 63.44 346 eP 23 37.00 -0.1
 TUL 63.56 8 ePd- 23 36.80 -0.8
 1.4s 1221.90nm 6.9mb
 Z 18s 0.10um 4.0mszX
 LR 37 00.00
 GSC 63.56 349 iPd 23 38.26 0.5
 iPc 23 41.57 11kmX
 eSpC 23 43.39
 ABL 63.59 346 P 23 38.40 0.2
 OLY 63.80 12 P 23 38.20 -1.1
 BCH 64.10 346 P 23 41.80 0.4
 CLC 64.21 348 iPd 23 42.00 0.0
 ISA 64.23 347 eP 23 42.00 -0.1
 PUZ 64.28 239 eP 23 42.60 0.1
 SGS 64.43 22 P 23 44.40 1.0
 PHAM 64.80 346 eP 23 46.50 0.7
 PKEM 64.95 346 P 23 48.00 1.3
 PRI 65.15 345 ePd 23 49.00 0.8
 RSCP 65.18 17 P 23 47.00 -1.3
 1.3s 540.54nm 6.6mb
 BLW 65.46 235 eP 23 48.80 -1.3
 PRS 65.49 345 ePd 23 50.70 0.5
 GBTN 65.60 18 P 23 50.00 -1.0
 MOW 65.60 235 P 23 50.50 -0.5
 MNG 65.66 235 P 23 50.60 -0.8
 LLA 65.67 345 ePd 23 52.00 0.6
 TKL 65.72 18 P 23 51.00 -0.7
 FRI 65.76 346 ePd 23 51.40 -0.5
 WDW 65.83 235 eP 23 51.20 -1.3
 SAO 65.92 345 ePd 23 53.60 0.6
 ELC 65.96 13 P 23 52.00 -1.2
 WEL 65.99 235 eP 23 54.40 0.9
 KIW 66.00 235 eP 23 52.60 -1.0
 MRW 66.05 235 P 23 54.00 0.2
 MSU 66.07 353 P 23 54.60 0.4
 GCC 66.30 345 ePd 23 55.80 0.4
 CCM 66.33 11 iPd 23 55.28 -0.3

TCW 66.37 235 eP 23 53.00 -2.9X
 FVM 66.41 12 P 23 54.40 -1.6
 ARN 66.50 345 P 23 57.60 0.9
 MHC 66.52 345 eP 23 58.00 1.1
 CAI 66.74 85 iPc 23 53.80 -4.9X
 PCC 66.84 344 eP 23 59.50 0.7
 GOL 66.85 359 P 23 58.50 -0.6
 Z 18s 2.17um 5.4msz
 GLD 66.90 359 P 23 58.50 -0.8
 1.5s 390.63nm 6.4mb
 CMB 66.91 346 iPd 23 59.06 -0.2
 iPc 24 02.21 10kmX
 eSpC 24 04.20
 iS 32 57.10
 eSKS 33 55.86
 BKS 67.17 345 iPd 24 02.00 1.1
 Z 13s 1.80um 5.5mszX
 N 13s 1.70um
 iS 33 02.00
 e 33 25.20
 iSS 37 28.20
 iLO 41 04.00
 iLO 44 07.20
 eLR 44 16.00
 BRK 67.17 345 eP 24 01.10 0.2
 THZ 67.20 234 P 24 01.00 -0.3
 KVN 67.44 348 P 24 03.00 0.1
 DUG 67.80 353 P 24 05.20 0.2
 1.0s 37.50nm 5.5mb
 DAU 67.86 354 P 24 05.00 -0.6
 BLA 68.14 20 iPd 24 07.00 -0.1
 0.7s 100.60nm 6.1mb
 ORV 68.61 346 ePd 24 10.30 0.4
 MHZ 68.73 229 P 24 10.70 -0.2
 TLC 68.83 229 eP 24 11.40 -0.1
 MMCZ 68.84 229 P 24 11.00 -0.6
 MIN 69.38 346 eP 24 14.20 -0.7
 MSZ 69.77 229 eP 24 16.50 -0.6
 WDC 69.82 345 ePd 24 17.10 -0.2
 NA2 69.84 22 P 24 17.00 -0.4
 CBN 70.03 22 eP 24 17.00 -1.6
 FHC 70.36 344 eP 24 21.80 1.1
 PTI 70.40 354 P 24 21.50 0.5
 LBFM 70.41 346 eP 24 21.60 0.4
 HON 71.10 307 P 24 25.00 -0.5
 Z 21s 5.38um 5.8msz
 SCP 72.22 21 iPd 24 21.45 -10.4X
 ePc 24 24.42 10kmX
 ePd 24 38.40 -0.2
 LRM 73.34 354 ePd 24 41.10 0.2
 TXNY 73.79 23 iP 24 41.10 0.2
 COR 73.80 346 iPd 24 42.08 1.1
 iPc 24 44.89 9kmX
 eSpC 24 47.04
 iS 34 16.26
 DRV 74.49 202 iPd 24 44.00 -0.7
 DPW 76.05 350 P 24 54.50 0.6
 NEW 76.28 351 P 24 55.00 -0.2
 1.3s 337.26nm 6.3mb
 GMW 76.53 347 P 24 57.20 0.6
 RSNY 76.67 21 P 24 56.80 -0.6
 1.2s 72.89nm 5.6mb
 WNY 76.75 22 P 24 58.00 0.1
 HBVT 76.99 22 P 24 59.00 -0.2
 MCW 77.62 348 P 25 04.00 1.4
 PNT 77.67 350 ePd 25 03.00 0.1
 PGC 77.71 347 eP 25 04.00 1.0
 1.0s 168.00nm 6.1mb
 SES 77.77 356 ePd 25 04.40 1.0
 1.8s 1099.00nm 6.6mb
 BNH 77.81 23 P 25 04.50 0.8
 DZM 79.53 251 iPc 25 13.70 -0.1
 CBM 80.95 24 P 25 20.50 -0.1
 FFC 81.90 1 eP 25 25.00 -0.3
 1.9s 563.00nm 6.3mb
 MAW 84.71 175 iPd 25 38.10 -1.6
 CNB 86.59 232 eP 25 50.00 0.2
 CAN 86.84 232 eP 25 46.90 -4.1X
 e 25 50.20
 COO 87.19 237 e(P) 25 50.00 -2.8X
 e 25 53.00
 BWA 87.72 232 eP 25 49.30 -6.0X
 e 25 54.10
 TOO 88.02 228 eP 25 56.00 -0.6
 SCH 88.07 21 eP 25 55.00 -1.3

YKA	90.05	355 eP	26 04.80	-0.6	PII	125.89	54 PKP	32 12.50	4.1X	PSZ	132.47	49 ePKP	32 21.60	0.6
	1.4s	61.60nm		5.6mb	BDI	125.98	54 PKP	32 11.00	2.3	SPC	132.59	47 ePKP	32 16.00	-5.3X
BFD	90.18	227 eP	26 06.00	-0.8	SAL	126.05	52 PKP	32 10.50	1.8	OHR	133.34	58 iPKPd	32 23.00	0.2
RMO	91.65	239 iPd	26 14.00	0.2	FIR	126.43	54 ePKP	32 10.00	0.5		1.4s	203.00nm		
STK	93.89	231 eP	26 22.70	-1.3	OGA	126.47	50 iPKPc	32 10.70	0.9				32 32.50	
	1.7s	21.00nm		5.2mb		1.9s	128.00nm			TIM	133.54	52 iPKPc	32 24.00	1.1
PMR	95.86	340 eP	26 31.80	-0.3	SQTA	126.61	50 iPKPd	32 10.40	0.5	BZS	133.83	52 ePKP	32 07.00	-16.5X
	1.7s	146.70nm		6.2mb		1.3s	94.80nm			SKO	133.83	57 iPKP	32 22.00	-1.6
CTA	96.99	243 iPc	26 38.40	0.1				32 19.50		Z	20s	0.87um		5.5msz
	1.9s	100.00nm		6.1mb				32 31.60		N	20s	0.37um		
		iSKS	37 17.00		GRF	126.68	47 ePKPd	32 10.60	0.8	E	20s	0.73um		
SVW	97.58	338 eP	26 38.70	-1.3		Z	19s	0.30um	5.0msz				34 27.00	
	2.2s	287.30nm		6.5mb	PGD	126.77	54 PKP	32 10.00	-0.4				41 55.00	
INK	97.93	349 ePd	26 41.10	-0.2	SFI	126.87	54 PKPd	32 12.50	2.2				53 02.00	
COL	98.08	343 ePDifd	26 41.47	-0.6	CRE	126.92	55 PKP	32 09.00	-1.6				57 30.00	
		ePP	30 41.73		MOX	126.94	46 ePKP	32 11.00	0.7	MDJ	134.07	307 ePKP	32 24.00	0.0
FBA	98.08	343 eP	26 41.70	-0.4		1.9s	63.00nm			GZR	134.66	52 ePKPd	32 07.50	-17.7X
	1.9s	103.10nm		6.2mb	MAT	127.07	296 ePKP	32 09.00	-2.0	VAY	134.68	58 ePKP	32 25.00	-0.2
TTA	99.01	339 eP	26 45.80	-0.6		Z	20s	1.77um	5.7msz	KKB	135.06	57 ePKP	32 26.00	0.0
MBC	103.91	356 ePd diff	27 07.00	-1.1	HFS	127.30	34 ePKP	32 09.70	-0.9	VTs	135.13	56 iPKP	32 31.00	4.7X
	1.5s	43.00nm		6.0mb		0.8s	5.90nm			TNR	135.68	52 ePKPc	32 28.00	0.9
ASPA	104.26	233 iPd diff	27 05.70	-5.2X		Z	18s	0.20um	4.8msz	PGB	135.84	56 ePKP	32 27.00	-0.5
	1.5s	15.00nm		5.6mb			LR	25 05.00		CMP	136.26	52 ePKPd	32 29.00	0.8
	Z	18s	1.88um	5.7msz	RMP	127.31	57 PKP	32 11.50	0.3	RZN	136.28	57 iPKPc	32 28.00	-0.5
		iPP	31 25.40		RDP	127.31	57 PKP	32 11.00	-0.3	PVL	136.65	55 iPKPc	32 22.00	-6.9X
		LR	14 07.70		MNS	127.34	56 PKPd	32 10.50	-0.8	KDZ	136.81	57 ePKP	32 28.00	-1.3
WRA	106.24	237 PKP	31 41.00	9.4X	VVI	127.40	52 PKP	32 12.50	1.2	MLR	136.87	52 ePKPd	32 27.50	-2.0
	1.5s	19.00nm			FAI	127.51	63 PKP	32 13.50	1.8	BUC	137.10	53 ePKPd	32 29.00	-0.7
EVA	110.04	136 ePKP	31 42.00	3.2X	FVI	127.67	51 PKPd	32 21.00	9.3X	JMB	137.63	56 ePKP	32 31.00	0.2
TOL	114.49	56 ePKP	31 45.00	-1.8	BHG	127.76	49 iPKPd	32 11.50	-0.4	MFT	138.26	59 iPKP	32 30.30	-1.9
		ePP	32 44.00			2.0s	190.00nm			SNY	138.65	303 ePKP	32 32.40	-0

CD2 155.33 285 eS 33 48.00
Z 30s 1.20um 5.5mszX
KMI 155.69 271 ePKPc 32 58.95 -1.8
BDT 156.23 249 ePKP 33 00.00 -1.3
GTA 156.73 307 PKPd 33 01.20 -0.4
Z 44s 3.10um 5.8mszX
CHTO 157.01 253 iPKPd 33 01.05 -1.3
WMO 161.06 332 iPKPd 33 06.33 0.2
Z 28s 1.90um
MAIO 163.66 53 iPKPd 33 10.60 1.6
Z 1.8s 158.45nm
LSA 166.28 283 PKP 33 12.00 0.0
KSH 168.06 359 PKP 33 15.00 2.5X
E 28s 2.20um
HYB 169.65 195 ePKPd 33 13.00 -1.0
GUN 171.00 275 PKP 33 15.00 0.2
PKI 171.41 273 PKP 33 14.60 -0.4
KKN 171.53 274 PKP 33 15.00 0.1
DMN 171.68 273 PKP 33 15.30 0.3
QUE 171.84 69 ePKP 33 16.30 1.4
GKN 172.09 276 PKP 33 15.00 0.0
NDI 178.23 313 iPKP 33 16.00 -0.4
ePP 35 18.00
S.D. = 1.0 on 294 of 335 obs.

* AUG 21, 1990 15h 41m 55.53 ± 1.97s
5.581 S ± 20.4km 133.405 E ± 16.0km
DEPTH = 33.0km (normal)
4.6mb (5 obs.)
AROE ISLANDS REGION (204)

AAI 5.52 290 eP 43 17.80 0.2
eS 44 20.00
MTN 7.56 197 eP 43 39.80 -6.5X
KUPT 10.72 244 eP 44 28.50 -1.3
KNA 11.08 204 iPd 44 37.00 2.1
0.3s 47.00nm 6.2mb X
WB5 14.24 176 eP 45 15.80 -1.3
eS 47 45.90
WRA 14.31 176 Pd 45 16.50 -1.4
0.2s 2.40nm 4.4mb
OIS 16.06 159 iPd 45 40.00 -0.6
i 45 46.00
e 48 31.00
ASPA 17.99 179 eP 46 05.90 1.0
0.8s 65.00nm 4.8mb
Z 23s 0.58um 3.8msz
CTA 19.08 140 eP 46 18.00 -0.2
1.0s 16.00nm 4.2mb
MBL 20.32 219 eP 46 35.00 3.3X
0.5s 13.00nm 4.5mb
WARB 21.48 197 eP 46 47.00 3.4X
eS 50 52.00
NANU 24.15 224 eP 47 14.00 4.3X
STK 27.26 165 eP 47 40.30 1.5
1.8s 38.00nm 4.7mb
NAI 96.45 268 iPd 55 30.00 6.3X
CNCB 149.31 137 PKP 01 45.00 5.2X
LPB 149.42 136 ePKP 01 49.00 9.3X
ZOB0 149.58 136 PKP 01 45.00 4.8X
S.D. = 1.5 on 9 of 17 obs.

% AUG 21, 1990 15h 53m 41.09 ± 0.72s
46.809 N ± 5.5km 3.779 E ± 5.9km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.6 (LDG).

SMF 0.17 165 Pg 53 44.90 -0.1
Sg 53 47.20
LBF 0.22 38 Pg 53 45.90 0.0
Sg 53 48.90
AVF 0.29 267 Pg 53 47.10 -0.1
Sg 53 51.10
SSF 0.31 324 Pg 53 47.70 0.1
Sg 53 52.00
BGF 0.69 249 Pn 53 54.40 -0.3
Sg 54 03.20
Sn 54 06.40
MAF 1.02 235 Pn 54 00.00 0.4
Sg 54 14.10
TCF 1.20 245 Pg 54 03.60 0.1
Sg 54 18.80
S.D. = 0.3 on 7 of 7 obs.

% AUG 21, 1990 15h 59m 27.05 ± 0.91s
46.858 N ± 7.6km 3.772 E ± 7.9km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.5 (LDG).

LBF 0.19 48 Pg 59 31.40 0.1
Sg 59 34.50
SSF 0.27 318 Pg 59 33.00 0.2
Sg 59 37.40
AVF 0.30 257 Pg 59 33.20 0.0
Sg 59 37.20
LOR 0.41 8 Pg 59 35.30 -0.2
Sg 59 41.40
BGF 0.70 245 Pg 59 40.80 -0.2
Sg 59 50.00
Sn 59 52.60
MAF 1.05 233 Pg 59 46.90 0.1
Sg 00 00.20
TCF 1.22 243 Pg 59 49.80 0.0
S.D. = 0.2 on 7 of 7 obs.

AUG 21, 1990 16h 00m 57.86 ± 0.85s
22.576 N ± 3.4km 121.980 E ± 4.1km
DEPTH = 16.8 ± 5.8 km
5.3mb (61 obs.) 5.2msz (8 obs.)
TAIWAN REGION (243)
CENTROID. MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 23C
Centroid Location:
Origin Time 16:00:58.3 0.8
Lat 22.42N 0.07 Lon 121.77E 0.11
Dep 15.0 FIX Half-duration 2.1
Moment Tensor: Scale 10¹⁷ Nm
Mrr = 0.55 0.13 Mtt = 1.14 0.10
Mff = -1.68 0.18 Mrt = 0.00 0.00
Mrf = 0.00 0.00 Mtf = -0.80 0.11
Principal Axes:
T Vol = 1.35 Plg = 0 Azm = 195
N 0.55 90 180
P -1.90 0 105
Best Double Couple: Mo = 1.6 × 10¹⁷
NP1: Strike = 240 Dip = 90 Slip = -180
NP2: 330 90 0

TWG 0.87 286 iPd 01 13.90 -0.3
eS 01 26.30
TWF1 1.00 321 iPd 01 15.70 -0.6
TWC 2.03 357 iPc 01 31.40 -0.3
TWZ 2.54 352 eP 01 39.40 0.4
ANP 2.63 351 iP 01 40.80 0.4
eS 02 04.60
QZH 3.90 308 Pnd 01 57.60 -0.7
Z 20s 27.40um
N 10s 15.50um
E 10s 12.00um
Sn 02 41.50
BAG 6.27 192 eP 02 32.00 -0.1
1.0s 258.00nm 6.0mb
HKC 7.23 269 iP 02 45.50 0.2
MCO 7.81 268 eP 02 53.20 -0.3
eS 04 16.70
QCP 7.94 186 eP 03 06.00 10.7X

GZH 7.98 275 Pd 02 55.50 -0.4
Z 20s 11.30um
N 10s 8.40um
E 10s 5.60um
SSE 8.52 355 P 03 00.80 -2.5X
0.8s 13.00nm 5.2mb
Z 20s 6.00um 4.3mszX
E 12s 15.60um
WHN 10.47 321 Pd 04 32.00
Z 12s 10.80um 03 28.50 -1.7
N 10s 22.40um
E 11s 29.20um
OIZ 11.89 255 eP 03 49.50 -0.1
N 16s 13.50um
E 13s 3.10um
TIA 14.23 344 eP 04 19.00 -1.6
Z 11s 8.90um
N 11s 5.20um
E 11s 13.30um
GYA 14.47 289 P 04 24.80 0.9
Z 18s 4.20um
N 11s 11.30um
E 11s 3.10um
XAN 16.19 318 P 04 48.00 1.8
N 12s 23.10um
E 14s 19.40um
DL2 16.28 359 P 04 57.00
Z 18s 9.90um 04 48.00 0.8
E 14s 8.70um
TIY 17.18 334 Pd 05 01.00 2.3
1.0s 40.00nm 4.5mb
Z 13s 10.20um 5.7mszX
KKM 17.35 200 eP 05 01.00 0.0
1.5s 281.30nm 5.2mb
BJI 18.09 346 eP 05 11.50 1.5
1.2s 71.00nm 4.7mb
Z 14s 5.57um 4.9msz
N 11s 5.45um
E 12s 7.80um
CD2 18.25 301 P 05 12.80 0.7
1.2s 300.00nm 5.3mb
Z 10s 7.20um 4.9mszX
SNY 19.24 4 Pd 05 22.60 -1.4
1.4s 220.00nm 5.2mb
Z 12s 7.00um 4.6mszX
N 11s 5.00um
E 11s 5.40um
LOE 19.71 259 eP 05 30.00 0.4
MAT 19.78 42 eP 05 28.00 -2.2
0.8s 20.90nm 4.5mb
Z 20s 1.42um 4.7msz
HHC 20.23 337 P 05 34.90 -0.1
1.1s 100.00nm 5.1mb
Z 13s 5.90um 5.1mszX
N 11s 5.90um
E 10s 3.20um
BTO 20.62 333 P 05 39.00 0.0
N 11s 7.40um
E 11s 11.30um
LZH 20.72 315 Pc 05 38.00 -2.2
1.0s 150.00nm 5.3mb
Z 12s 10.30um 5.4mszX
N 10s 7.00um
PCT 21.00 252 eP 05 45.10 2.2

MNI	21.19	172	ePc	05	44.00	-0.9	1.8s	64.00nm	5.4mb	SRO	82.25	319	eP	13	20.30	0.7	
CN2	21.36	7	Pc	05	45.00	-1.5		ePcP	10	56.10	SKO	82.63	312	iP	13	20.50	-1.2
	1.0s		800.00nm			6.1mb		e(P)	11	08.00		1.0s		53.00nm		5.6mb	
Z	16s		8.60um			5.2MsZ	COO	e	11	18.00		Z	18s		0.91um	5.2MsZ	
N	14s		6.00um				BWA	eP	11	21.90		N	16s		1.14um		
E	14s		1.00um					e	11	29.80		E	16s		1.16um		
			PP	05	50.50		DZM	iPc	11	22.20							
NST	21.74	255	eP	05	54.00	3.6X	CAN	eP	11	28.20							
CHG	21.87	264	eP	05	54.00	2.3		i	11	36.20							
	1.1s		74.37nm			5.0mb	TOO	eP	11	32.00		ZST	82.83	319	eP	13	32.00
BDT	22.23	260	eP	05	56.30	0.9		i	11	41.50							
	0.8s		51.90nm			5.0mb	BEE	ePn	11	37.50		SOP	83.38	319	eP	13	27.90
MDJ	22.86	14	eP	06	01.20	-0.2						BRG	83.45	323	iPd	13	25.60
Z	15s		5.30um			5.1MsZ	BBU	ePn	11	39.40							
E	12s		6.60um														
			PP	06	09.00		TAB	ePn	11	43.00							
NNT	23.39	249	eP	06	11.00	4.3X	TTA	iPc	11	49.10		PRU	83.53	322	P	13	26.10
GUMO	23.49	108	eP	06	09.50	1.7											
	1.2s		400.00nm			5.8mb											
			eS	10	29.00		SVW	iPc	11	51.60							
			eTT	29	36.50		IMA	ePc	11	53.60							
PJG	23.49	108	eP	06	09.50	1.7											
GUA	23.56	109	eP	06	09.70	1.3											
GTA	25.24	317	eP	06	25.60	0.9	PMR	iPd	12	09.50		CLL	83.77	323	iPd	13	27.90
	1.4s		50.00nm			5.0mb											
Z	14s		6.70um			5.3MsZ											
E	10s		4.50um				FBA	P	12	09.60							
			PP	06	35.40												
			S	10	46.00		KEY	pP	12	21.00		YKA	84.16	23	eP	13	28.60
			SS	10	59.00			eP	12	14.00							
SNG	25.64	237	eP	06	31.10	2.7X						KHC	84.48	321	eP	13	30.90
			eS	11	27.50												
IPM	27.04	232	ePd	06	45.00	3.7X	TOA	eP	12	18.40							
	0.9s		63.20nm			5.3mb	SOD	iP	12	17.40							
KGM	27.31	224	eP	06	47.50	3.7X						ZAG	84.57	318	eP	13	32.50
LSA	28.51	291	P	06	57.00	1.9	SUF	iP	12	26.10							
GUN	33.00	287	P	07	35.60	0.9											

DOI 90.58 319 P 13 50.50 -10.2X
 BNI 90.62 320 P 14 00.00 -0.9
 EDM 90.64 30 eP 14 01.00 0.3
 LOR 90.98 323 eP 14 00.80 -1.6
 1.2s 14.90nm 5.2mb
 Z 21s 1.00um 5.3msz
 LBF 91.08 323 eP 14 01.40 -1.5
 1.0s 18.00nm 5.4mb
 SSF 91.30 323 eP 14 02.60 -1.2
 1.0s 11.00nm 5.2mb
 SMF 91.36 323 eP 14 02.80 -1.3
 1.0s 19.00nm 5.4mb
 AVF 91.54 323 eP 14 03.50 -1.4
 1.1s 18.30nm 5.4mb
 NEW 91.90 35 P 14 08.00 1.4
 0.8s 26.04nm 5.7mb
 BGF 91.96 323 eP 14 05.60 -1.3
 0.9s 8.20nm 5.1mb
 MAF 92.32 323 eP 14 07.60 -0.9
 0.8s 10.75nm 5.3mb
 TCF 92.48 323 eP 14 08.40 -0.9
 1.0s 10.00nm 5.2mb
 LSF 92.88 323 eP 14 09.70 -1.4
 1.0s 10.00nm 5.2mb
 LBFM 93.17 43 P 14 13.00 0.2
 14 24.00 35kmX
 WDC 93.18 44 eP 14 24.20 11.6X
 CAF 93.37 322 eP 14 13.00 -0.5
 1.1s 29.30nm 5.6mb
 RJF 93.46 322 eP 14 13.30 -0.5
 1.0s 20.00nm 5.5mb
 Z 22s 1.05um 5.2msz
 ORV 94.41 44 e(P) 14 24.50 6.2X
 MHC 95.55 46 e(P) 14 28.20 4.4X
 CMB 95.99 45 eP 14 25.50 -0.2
 KVN 96.86 43 P 14 29.00 -0.8
 BW06 99.50 36 P 14 49.00 7.3X
 ALO 106.63 40 e(PKP) 19 33.00 8.7X
 Z 18s 0.31um 4.9msz
 RSNY 111.52 13 Pdif 15 50.00 15.3X
 LKO 119.54 296 PKP 19 47.16 -2.0
 KIC 120.48 292 PKP 19 49.26 -1.7
 TIC 120.58 293 PKP 19 49.50 -1.6
 LIC 120.80 292 PKP 19 49.86 -1.7
 ZOBO 168.59 58 PKP 21 07.00 0.9
 Z 24s 0.45um 6.0mszX
 LPB 168.76 59 ePKP 21 06.00 0.0
 CNCB 169.01 60 ePKP 21 07.00 0.7
 SIV 172.84 24 PKP 21 07.80 0.3
 i 22 34.00

S.D. = 1.2 on 174 of 201 obs.

% AUG 21, 1990 16h 12m 04.63±0.61s
 26.362 S ± 6.0km 27.441 E ± 6.0km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 3.3 (PRE).

BPI 0.56 71 eP 12 16.00 0.1
 S 12 22.00
 PRY 0.57 177 iPd 12 17.00 1.0
 S 12 23.00
 KSR 0.70 315 iPd 12 19.90 1.3
 S 12 29.10
 SLR 0.98 51 iPc 12 22.90 -0.9
 S 12 35.30
 EVA 1.47 96 iPd 13 00.70 28.7X
 S 13 18.50
 SEK 1.96 175 eP 12 39.00 0.0
 S 13 01.00
 BFT 2.44 75 eP 12 46.20 0.3
 BLF 2.95 202 eP 12 53.40 0.2
 e 13 32.50
 KIM 3.35 224 iPd 12 58.90 0.0
 FRS 3.86 209 eP 13 06.00 0.1
 HVD 4.56 202 eP 12 58.00 -18.0X
 S 13 49.00
 GRM 6.97 186 eP 13 47.20 -2.7X
 POF 7.28 244 eP 13 52.20 -2.0
 CER 9.93 223 eP 14 27.50 -3.6X
 WIN 10.15 290 iP 14 31.00 -3.3X

S.D. = 1.1 on 10 of 15 obs.

% AUG 21, 1990 16h 57m 15.50s
 36.540 N 121.163 W
 DEPTH = 7.0km
 CENTRAL CALIFORNIA (39)

<BRK>. ML 2.6 (BRK).

LLA 0.19 67 iPc 57 19.00 -0.6
 iS 57 21.80
 PRS 0.27 219 iPd 57 20.80 -0.2
 SAO 0.32 315 iP 57 21.60 -0.4
 iS 57 27.00
 PRI 0.57 135 eP 57 26.50 -0.4
 eS 57 35.50
 GCC 0.83 306 eP 57 31.00 -0.8
 eS 57 43.30
 ARN 0.86 340 eP 57 31.70 -0.7
 MHC 0.89 335 iPc 57 31.90 -1.0
 iS 57 45.70
 PHAM 0.94 138 eP 57 32.30 -1.4
 PKEM 0.98 119 eP 57 34.20 -0.1
 FRI 1.25 68 eP 57 37.40 -1.6
 iS 57 53.70
 CMB 1.62 22 eP 57 43.20 -1.3
 eS 58 04.20
 KVN 3.49 43 e(P) 58 18.00 6.5
 12 obs. associated

* AUG 21, 1990 17h 45m 32.00±2.76s
 35.363 S ±20.3km 179.187 E ±15.8km
 DEPTH = 118.4 ± 20.7 km
 5.0mb (6 obs.)

OFF E. COAST OF N. ISLAND, N.Z. (160)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 135, 26C

Centroid Location:

Origin Time 17:45:14.8 1.5

Lat 34.565 0.12 Lon 178.69W 0.11

Dep 16.6 5.0 Half-duration 1.7

Moment Tensor: Scale 10+16 Nm

Mrr= 6.24 0.54 Mtt= 0.28 0.58

Mff=-6.51 0.61 Mrt=-1.46 1.48

Mrf= 7.53 3.04 Mtf=-4.35 0.62

Principal Axes:

T Val= 10.73 Plg=57 Azm=236

N 0.30 24 9

P -11.03 21 108

Best Double Couple: Mo=1.1+10+17

NP1: Strike=234 Dip=32 Slip=139

NP2: 0 70 65

HBZ 2.34 197 P 46 10.50 0.3
 eS 46 57.00
 PUZ 2.81 195 P 46 16.20 -0.2
 S 47 05.10
 NOZ 3.38 195 P 46 23.60 -0.3
 TAZ 3.58 216 P 46 31.30 4.6X
 WLZ 3.81 228 P 46 35.60 5.8X
 WHH 4.12 211 eP 46 36.60 2.5
 HITZ 4.32 218 eP 46 40.70 4.0X
 TTH 4.57 204 eP 46 41.50 1.3
 NGZ 4.76 216 eP 46 46.40 3.5X
 CNZ 4.81 216 eP 46 46.40 2.9X
 PGZ 5.73 203 eP 46 54.60 -1.3
 MNG 6.01 208 eP 46 58.80 -1.0
 eS 48 21.40
 KIW 6.44 210 eP 47 04.50 -1.3
 MTW 6.47 206 eP 47 02.80 -3.4X
 MRW 6.84 210 eP 47 10.60 -0.5
 eS 48 40.10
 WEL 6.86 209 eP 47 12.00 0.6
 S 48 43.00
 THZ 8.06 216 eP 47 29.40 1.5
 eS 49 13.80
 KHZ 8.31 210 P 47 30.00 -1.0
 LTZ 9.15 214 eP 47 40.00 -2.5X
 eS 49 36.40
 MQZ 9.74 209 eP 47 48.70 -1.6
 eS 49 47.50
 DZM 17.31 317 iPd 49 21.50 -6.2X
 RMO 27.48 280 eP 51 10.00 1.1
 STK 31.38 265 eP 51 45.30 1.8
 1.8s 165.00nm 5.5mb
 CTA 32.70 289 iPd 51 55.00 -0.1
 0.6s 31.33nm 5.3mb
 iS 57 26.00
 OIS 37.68 282 eP 52 37.00 -0.4
 ASPA 40.78 274 eP 53 03.10 0.0
 1.1s 36.00nm 5.0mb
 Z 22s 2.27um 5.0msz
 iPcP 54 57.90

iS 59 14.70
 LR 09 24.00
 WRA 42.22 279 Pc 53 14.20 -0.7
 0.5s 9.70nm 4.8mb
 WB5 42.23 279 eP 53 14.80 -0.2
 MBL 53.44 269 iPd 54 40.80 -1.1
 0.4s 3.00nm 4.6mb
 SPA 54.82 180 eP 54 52.50 0.8
 0.8s 13.33nm 4.9mb
 SOD 144.29 342 ePKP 04 44.00 -10.4X
 SUF 147.89 337 iPKP 04 54.20 -6.3X
 0.5s 14.50nm
 DSI 149.68 273 ePKP 05 03.90 -0.3
 NOH 149.75 271 ePKP 05 04.30 -0.2
 MML 149.89 275 ePKP 05 05.00 0.4
 RMN 149.96 271 ePKP 05 04.70 -0.1
 NUR 149.98 335 ePKP 05 00.00 -3.7X
 0.7s 21.40nm
 BHL 150.06 278 PKP 05 04.00 -0.9
 LIC 150.74 171 PKP 05 07.00 0.7
 KIC 150.91 172 PKP 05 07.52 0.9
 TIC 151.16 171 PKP 05 07.98 1.0
 UPP 152.71 340 iPKP 05 14.90 7.1X
 NAO 153.44 347 PKP 05 04.60 -4.2X
 0.6s 5.10nm
 HFS 153.49 344 ePKP 05 07.20 -1.7
 0.8s 6.60nm
 ZST 161.54 319 ePKP 05 31.90 13.0X
 S.D. = 1.1 on 31 of 45 obs.

? AUG 21, 1990 17h 52m 40.98±5.54s
 30.392 N ±70.1km 83.115 E ±24.3km
 DEPTH = 33.0km (normal)

TIBET (306)

GKN 2.73 150 P 53 23.60 0.1
 KKN 3.21 143 P 53 29.80 -0.7
 0.5s 12.00nm
 DMN 3.28 147 P 53 31.60 0.2
 0.4s 13.00nm
 PKI 3.45 144 P 53 34.40 0.3
 GUN 3.46 135 P 53 34.30 0.1
 NDI 5.41 253 eP 54 01.50 0.0
 S.D. = 0.4 on 6 of 6 obs.

? AUG 21, 1990 18h 11m 33.49±1.46s
 16.076 N ±15.2km 120.686 E ±26.5km
 DEPTH = 33.7 ± 10.3 km
 4.8mb (7 obs.)

LUZON, PHILIPPINE ISLANDS (249)

BAG 0.35 343 iPc+ 11 41.90 -0.2
 OCP 1.48 165 eP 12 10.00 11.9X
 XAN 20.79 332 P 16 15.60 1.2
 TIY 22.75 343 eP 16 34.00 0.0
 Z 16s 0.40um 4.0mszX
 BJI 24.20 352 eP 16 48.50 0.6
 1.0s 18.00nm 4.6mb
 GTA 29.55 326 eP 17 36.40 -1.0
 WB5 38.18 159 eP 18 52.10 0.3
 KEV 76.32 339 eP 23 16.00 -4.4X
 SOD 76.85 337 iP 23 23.60 0.1
 SUF 77.92 332 iP 23 29.20 -0.2
 0.4s 3.10nm 4.7mb
 NUR 79.10 330 eP 23 36.00 0.1
 INK 80.90 21 eP 23 45.00 -0.4
 MBC 81.24 12 eP 23 47.00 -0.1
 0.4s 3.00nm 4.6mb
 UPP 82.65 330 iP 23 56.40 1.8
 HFS 84.40 331 ePKP 24 02.40 -1.1
 0.5s 5.30nm 5.0mb
 NAO 85.42 332 P 24 07.70 -1.0
 0.8s 5.60nm 4.8mb
 LPG 94.51 320 eP 24 52.20 0.0
 0.7s 4.40nm 5.0mb
 LPL 94.52 320 eP 24 52.10 -0.1
 0.6s 3.60nm 5.0mb
 S.D. = 0.9 on 16 of 18 obs.

? AUG 21, 1990 18h 27m 09.96±0.99s
 33.812 N ±26.8km 72.640 E ±17.5km
 DEPTH = 33.0km (normal)

PAKISTAN (710)

NDI 6.44 141 iPd 28 45.00 0.0
 eS 30 01.00
 GKN 11.81 116 P 29 59.80 0.5

21d 18h

DMN 12.38 117 P 30 06.80 -0.1
 KKN 12.41 116 P 30 07.00 -0.3
 PKI 12.62 116 P 30 09.60 -0.7
 GUN 12.80 114 P 30 13.20 0.5
 BZS 40.35 303 ePc 34 46.00 0.0
 S.D. = 0.5 on 7 of 7 obs.

* AUG 21, 1990 20h 11m 09.52± 0.85s
 34.593 S ± 9.3km 179.613 W ± 16.9km
 DEPTH = 33.0km (normal)
 4.8mb (3 obs.)
 SOUTH OF KERMADEC ISLANDS (179)

HBZ 3.44 209 eP 12 02.50 0.4
 eS 12 43.70
 PUZ 3.88 206 eP 12 07.70 -0.6
 eS 12 56.00
 NOZ 4.44 205 eP 12 16.60 0.3
 MNG 7.16 211 eP 12 50.50 -4.1X
 eS 14 11.80
 ASPA 41.72 272 iPc 18 57.50 0.4
 0.6s 16.00nm 4.9mb
 WRA 43.09 278 Pc 19 07.70 -0.6
 0.3s 1.70nm 4.3mb
 WB5 43.10 278 eP 19 08.20 -0.2
 FORR 43.75 260 eP 19 13.80 0.3
 0.4s 9.00nm 4.9mb
 KEV 141.86 345 ePKP 30 39.00 0.5
 BCOA 145.59 213 iPKPd 30 45.50 -1.1
 0.4s 3.00nm
 SUF 147.56 338 iPKP 30 47.50 -0.8
 0.7s 6.00nm
 NUR 149.68 336 ePKP 30 53.00 1.4
 e 31 05.00
 NAO 152.90 349 PKP 31 00.20 3.8X
 0.7s 1.40nm
 S.D. = 0.8 on 11 of 13 obs.

? AUG 21, 1990 20h 13m 44.29± 6.14s
 30.463 N ± 80.6km 82.758 E ± 23.7km
 DEPTH = 33.0km (normal)
 TIBET (306)

GKN 2.95 146 P 14 30.20 0.1
 KKN 3.46 140 P 14 36.80 -0.6
 DMN 3.51 144 P 14 38.60 0.5
 PKI 3.70 140 P 14 40.40 -0.4
 GUN 3.73 132 P 14 41.60 0.3
 NDI 5.14 251 eP 15 01.00 0.0
 S.D. = 0.5 on 6 of 6 obs.

% AUG 21, 1990 20h 58m 41.69± 0.96s
 0.007 N ± 11.5km 78.239 W ± 9.0km
 DEPTH = 33.0km (normal)
 COLOMBIA-ECUADOR BORDER REGION (106)

COTA 0.34 343 iP+ 58 50.60 0.1
 S 59 03.00
 QUR 0.34 238 iPd 58 51.00 0.6
 (S) 59 03.00
 YANA 0.35 250 iP+ 58 50.50 -0.1
 QTO 0.36 234 eP 58 51.50 0.9
 GGP 0.40 243 iP+ 58 50.00 -1.4
 eS 59 05.30
 VC1 0.66 194 eP 58 58.50 3.4X
 ANGL 0.80 120 eP 58 56.80 -0.1
 eS 59 14.70
 S.D. = 1.0 on 6 of 7 obs.

& AUG 21, 1990 21h 45m 23.77s
 61.391 N 146.880 W
 DEPTH = 31.0km
 SOUTHERN ALASKA (2)
 <AGS-P>.

VZW 0.37 155 iP 45 31.49 -0.9
 eS 45 38.41
 VLZ 0.37 134 iP 45 31.44 -0.9
 eS 45 38.14
 KLU 0.47 77 iP 45 32.81 -1.1
 eS 45 40.38
 SCM 0.49 334 iP 45 33.50 -0.7
 TOA 0.79 25 eP 45 37.79 -0.9
 SML 0.81 302 iP 45 37.71 -1.3
 eS 45 49.56
 GHO 1.05 292 iP 45 41.48 -1.0
 eS 45 55.82

PLRM 1.10 282 eP 45 42.03 -1.0
 PMS 1.30 265 eP 45 45.42 -0.5
 eS 46 02.74
 PWA 1.46 282 eP 45 47.89 -0.3
 RAGM 1.48 132 eP 45 47.86 -0.6
 GLB 1.48 87 iP 45 46.92 -1.6
 HMT 1.66 128 eP 45 49.23 -2.0
 SEW 1.81 225 eP 45 52.20 -1.0
 SLKM 1.86 243 eP 45 53.12 -0.9
 SUA 1.86 274 eP 45 52.95 -1.2
 CUT 1.90 304 eP 45 54.35 -0.2
 HUR 2.05 322 eP 45 56.58 -0.2
 TGL 2.07 106 eP 45 55.09 -2.1
 WAX 2.18 114 eP 45 56.32 -2.4
 BALM 2.22 97 eP 45 56.92 -2.4
 SKT 2.29 287 eP 45 58.66 -1.6
 SNH 2.32 120 eP 46 00.78 0.1
 CGLM 2.47 270 eP 46 01.72 -1.1
 SPU 2.51 267 eP 46 01.68 -1.6
 MCK 2.54 339 eP 46 03.20 -0.5
 NCG 2.54 273 eP 46 02.19 -1.6
 CKL 2.64 268 eP 46 03.27 -2.0
 WRG 2.74 118 eP 46 04.92 -1.7
 29 obs. associated

? AUG 21, 1990 22h 20m 48.39± 1.58s
 42.875 N ± 14.5km 18.868 E ± 8.3km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)
 ML 2.0 (TTG).

NKY 0.11 123 iPg 20 51.60 0.2
 iSg 20 54.20
 BRY 0.24 276 ePg 20 53.50 -0.1
 eSg 20 57.80
 HCY 0.51 213 ePg 20 58.80 0.1
 eSg 21 07.00
 TTG 0.53 147 ePg 20 58.90 -0.2
 eSg 21 06.60
 S.D. = 0.3 on 4 of 4 obs.

AUG 21, 1990 23h 00m 12.21± 0.60s
 36.504 N ± 7.4km 28.544 E ± 6.0km
 DEPTH = 21.8 ± 7.8 km
 DODECANESE ISLANDS (369)

KSL 0.92 114 eP 00 27.80 -1.6
 ELL 1.12 77 ePn 00 32.20 -0.6
 CIN 1.15 342 ePg 00 32.00 -1.0
 iSg 00 51.00
 KAP 1.46 230 eP 00 37.40 0.0
 SMG 1.82 312 eP 00 42.00 -0.6
 KHL 1.98 23 ePn 00 43.60 -1.4
 IZM 2.15 332 ePn 00 46.00 -1.4
 NPS 2.68 243 eP 00 53.00 -2.0
 VLI 4.52 274 eP 01 19.80 -1.2
 S.D. = 0.8 on 9 of 9 obs.

% AUG 21, 1990 23h 20m 33.14± 0.95s
 30.251 S ± 7.9km 28.930 E ± 8.3km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 3.1 (PRE).

SEK 2.23 329 eP 21 11.90 0.4
 S 21 38.00
 BLF 2.64 295 eP 21 17.50 0.2
 HVD 2.99 262 eP 21 01.50 -20.7X
 FRS 3.17 278 eP 21 26.00 1.4
 PRY 3.55 338 eP 21 35.00 4.8X
 GRM 3.65 213 eP 21 31.00 -0.6
 EVA 3.73 2 eP 22 01.00 28.1X
 S 22 38.50
 BFS 3.84 330 iPd 21 33.50 -0.8
 KIM 3.91 291 eP 21 34.80 -0.6
 JOZ 3.93 45 eP 21 36.00 0.6
 BPI 4.14 349 eP 21 38.00 -0.5
 S 22 15.40
 SLR 4.53 353 eP 21 44.00 -0.2
 S 22 36.00
 BFT 4.65 12 eP 21 46.00 0.1
 S.D. = 0.8 on 10 of 13 obs.

& AUG 21, 1990 23h 55m 37.95s
 63.210 N 148.368 W
 DEPTH = 71.3km
 CENTRAL ALASKA (1)

<AGS-P>.

FBA 1.72 8 eP 56 06.51 0.2
 eS 56 26.92
 PWA 1.72 205 eP 56 06.71 0.5
 SKT 1.91 231 iP 56 08.72 -0.3
 PMS 2.05 196 eP 56 12.28 1.3
 eS 56 37.93
 KLU 2.07 145 eP 56 11.30 0.1
 iS 56 36.95
 SUA 2.07 213 eP 56 12.99 1.7
 VZW 2.32 158 eP 56 14.79 0.1
 eS 56 44.38
 NCG 2.53 226 eP 56 18.93 1.2
 CGLM 2.56 223 eP 56 19.42 1.4
 GLB 2.77 128 eP 56 20.39 -0.6
 SLKM 2.85 199 eP 56 22.12 0.1
 11 obs. associated

& AUG 22, 1990 00h 13m 00.40s
 60.418 N 152.009 W
 DEPTH = 71.6km
 SOUTHERN ALASKA (2)
 <AGS-P>.

RDT 0.25 309 iP 13 11.07 -0.6
 iS 13 20.19
 RED 0.38 270 iP 13 11.96 -0.6
 eS 13 22.03
 NKA 0.50 49 eP 13 14.74 1.2
 >NNL 0.52 136 eP 13 14.19 0.5
 SPU 0.77 358 eP 13 15.78 -0.7
 eS 13 27.79
 HOM 0.78 166 eP 13 16.48 -0.1
 iS 13 30.75
 CKL 0.80 348 iP 13 15.99 -0.9
 CRP 0.86 355 iP 13 17.04 -0.6
 eS 13 30.49
 BRK 0.86 139 eP 13 16.83 -0.8
 eS 13 30.30
 BGL 0.87 348 iP 13 16.94 -0.8
 iS 13 30.18
 SLKM 0.89 83 eP 13 16.93 -1.0
 iS 13 30.96
 CGLM 0.89 0 iP 13 17.36 -0.6
 eS 13 30.93
 CNPM 0.98 156 eP 13 18.17 -0.8
 eS 13 32.51
 XLV 0.98 171 iP 13 18.01 -0.9
 eS 13 32.36
 NCG 0.99 356 eP 13 18.45 -0.8
 eS 13 34.56
 SUA 1.22 30 eP 13 21.61 -0.6
 eS 13 39.29
 PDB 1.26 241 eP 13 20.91 -1.7
 eS 13 37.54
 AUE 1.27 213 iP 13 21.47 -1.2
 SEW 1.31 103 eP 13 21.74 -1.5
 eS 13 39.78
 PMS 1.46 54 eP 13 25.10 -0.2
 iS 13 43.18
 SKT 1.59 8 eP 13 25.75 -1.2
 PWA 1.61 39 eP 13 26.78 -0.6
 MCNL 1.71 225 eP 13 27.02 -1.6
 eS 13 48.29
 CDD 1.71 210 eP 13 27.28 -1.4
 SHU 1.80 186 eP 13 28.85 -1.1
 PLRM 1.83 49 eP 13 28.96 -1.3
 SVW 1.90 293 eP 13 29.05 -2.3
 GHO 2.02 46 eP 13 31.56 -1.5
 eS 13 55.36
 CUT 2.16 22 eP 13 33.85 -1.0
 SML 2.26 50 eP 13 34.59 -1.8
 SCM 2.68 56 eP 13 40.40 -1.8
 VZW 2.76 74 eP 13 40.17 -3.0
 VLZ 2.88 73 eP 13 41.98 -2.8
 KLU 3.16 67 eP 13 46.21 -2.7
 KTH 3.19 9 eP 13 47.88 -1.4
 TOA 3.29 56 eP 13 49.29 -1.4
 GLB 4.13 72 eP 13 59.11 -3.4
 37 obs. associated

& AUG 22, 1990 00h 36m 16.90s
 37.915 N 121.973 W
 DEPTH = 8.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 2.5 (BRK).

22d 00h

Mo=1.9+10+13 Nm (BRK). Felt at Concord.

BKS 0.21 260 iPc 36 21.20 -0.2
 ZSP 0.23 278 iP 36 21.60 0.0
 BRK 0.23 260 iPc 36 21.60 -0.1
 PCC 0.53 218 eP 36 26.80 -0.7
 MHC 0.63 155 iPd 36 29.75 0.2
 ARN 0.66 148 eP 36 29.50 -0.8
 GCC 0.88 181 eP 36 33.80 -0.2
 SAO 1.22 160 iPd 36 38.07 -1.8
 CMB 1.26 84 eP 36 38.80 -1.7
 KVN 3.24 68 e(P) 37 15.00 5.7
 10 obs. associated

AUG 22, 1990 00h 39m 28.47±0.28s
 22.118 S ± 5.3km 175.014 E ± 7.8km
 DEPTH = 32.5km (3 depth phases)
 4.8mb (8 obs.) 5.1MsZ (4 obs.)
 SOUTH OF FIJI ISLANDS (171)

Ms 5.3 (BRK).
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 11S, 24C

Centroid Location:
 Origin Time 00:39:33.8 0.9
 Lat 21.83S 0.08 Lon 174.61E 0.09
 Dep 15.0 FIX Half-duration 1.9
 Moment Tensor: Scale 10+17 Nm
 Mrr= 0.23 0.05 Mtt=-1.03 0.05
 Mff= 0.80 0.06 Mrt= 0.90 0.14
 Mrf=-1.05 0.13 Mtf= 0.18 0.05
 Principal Axes:
 T Vol= 1.67 Plg=40 Azm= 77
 N 0.02 33 314
 P -1.69 32 199
 Best Double Couple: Mo=1.7+10+17
 NP1: Strike=234 Dip=34 Slip= 8
 NP2: 137 85 124

NDF 4.91 28 eP 40 43.10 1.2
 SYA 5.13 40 iPc 40 42.90 -2.2
 VUN 5.22 39 iPc 40 43.20 -3.1X
 SGE 5.27 32 P 40 45.10 -2.1
 OVA 5.66 39 eP 40 50.40 -2.1
 MBU 6.20 35 eP 41 01.00 0.8
 KRO 6.31 42 eP 40 59.80 -2.0
 NDE 6.84 37 eP 41 07.30 -1.9
 TVI 6.96 43 eP 41 09.20 -1.7
 UDU 7.58 39 eP 41 20.50 0.9
 DZM 7.95 269 iPd 41 22.90 -1.9
 MNG 18.45 179 P 43 42.60 -0.7
 CAW 18.93 180 P 43 49.00 -0.3
 TCW 19.05 182 P 43 50.20 -0.4
 MRW 19.06 181 P 43 52.00 1.3
 WDW 19.09 180 P 43 52.60 1.5
 WEL 19.11 181 P 43 52.00 0.7
 HNR 19.19 309 P 44 01.00 8.5X
 BLW 19.20 179 P 43 49.40 -3.0
 MOW 19.25 179 P 43 52.50 -0.5
 KHZ 20.28 183 P 44 03.30 -0.7
 LTZ 20.73 186 P 44 08.20 -0.6
 COO 22.34 243 e(P) 44 18.00 -7.1X
 RMD 24.31 254 eP 44 42.00 -2.3
 CAN 26.24 234 eP 45 01.20 -1.3
 BWA 26.35 236 e(P) 45 01.90 -1.6
 ASPA 37.82 260 iPc 46 39.90 -4.0X
 Z 22s 3.44um 5.1MsZ
 LR 01 11.50
 WB5 37.94 266 eP 46 37.00 -7.9X
 WRA 37.95 266 P 46 42.00 -3.1X

HON 1.1s 4.90nm 4.3mb
 Z 50.57 33 P 49 00.00 33.9X
 SBA 55.93 182 e(P) 49 06.00 0.8
 SPA 68.02 180 eP 50 25.20 -1.4
 NJ2 1.2s 42.25nm 5.4mb
 WHN 76.07 313 eP 51 13.00 -1.7
 TIY 78.31 310 eP 51 28.50 1.4
 ARN 83.65 315 eP 51 54.80 -0.5
 ABL 84.02 46 P 51 58.00 0.8
 PAS 84.25 49 P 51 59.40 0.8
 CHG 84.63 50 eP 52 07.00 6.8X
 CHTO 84.75 293 eP 52 06.50 5.4X
 RVR 85.20 49 eP 52 04.00 0.9
 SBB 85.12 50 eP 52 02.00 -0.6
 CMB 85.15 50 eP 52 03.00 0.1
 PLM 85.16 46 eP 52 03.80 1.0
 ISA 85.16 51 eP 52 06.00 2.9X
 ORV 85.20 49 eP 52 04.00 0.9
 CLC 85.26 44 eP 52 04.30 1.1
 HHC 85.89 49 eP 52 08.00 1.5
 TPC 85.96 317 eP 52 07.90 1.1
 GSC 86.12 51 eP 52 08.00 0.3
 CD2 86.18 50 eP 52 08.00 0.0
 GLA 86.29 305 eP 52 09.80 1.2
 BTO 86.50 52 eP 52 11.00 1.4
 KVN 86.80 316 eP 52 12.00 1.0
 LZH 87.22 46 P 52 13.70 0.6
 FBA 88.69 310 eP 52 03.00 -17.2X
 Z 4.0s 295.00nm 5.3MsZ
 13s 0.70um sP 52 28.50
 DAU 91.35 15 P 52 29.50 -2.2
 NEW 92.49 47 P 52 38.50 0.6
 GTA 92.58 38 eP 52 38.00 0.2
 PV09 1.0s 2.75nm 4.6mb
 ANMO 93.05 311 eP 52 39.00 -1.3
 BW06 1.0s 10.00nm 5.2mb
 VRI 93.11 50 eP 52 42.00 1.2
 EYL 93.55 54 eP 52 43.20 0.4
 MLR 1.0s 3.00nm 4.7mb
 ALT 94.68 46 P 52 47.30 -0.6
 IZI 144.98 320 ePKP 59 01.00 -3.0X
 KRA 145.10 310 ePKP 59 01.50 -3.0X
 CMP 145.65 320 ePKP 59 05.00 -0.3
 TNR 145.65 307 ePKP 59 02.00 -3.5X
 JMB 146.31 320 ePKPc 59 03.00 -3.3X
 EKA 146.54 322 ePKPc 59 10.00 3.4X
 KSP 146.76 315 ePKP 59 08.00 1.0
 CLL 146.80 358 PKPd 59 08.10 1.4
 BRG 1.3s 20.30nm
 1.3s 31.00nm
 1.6s 30.00nm
 1.2s 40.00nm
 KDZ 147.67 339 ePKP 59 10.00 1.8
 WIT 147.71 337 ePKP 59 09.80 1.5
 PRU 147.91 314 ePKP 59 10.00 1.1
 DMU 148.08 347 e(PKP) 59 13.00 4.3X
 RZN 148.22 336 ePKP 59 08.50 -0.6
 ZST 148.24 2 ePKP 59 10.80 1.8
 MOX 148.36 315 iPKPd 59 12.00 2.1X
 WTS 148.55 331 ePKP 59 12.10 2.4X
 MMB 148.70 340 ePKP 59 13.00 3.1X
 SOP 148.81 346 ePKP 59 14.50 4.6X
 KHC 1.0s 15.00nm
 1.4s 18.00nm
 GRF 149.05 316 ePKP 59 23.50
 149.18 331 ePKP 59 13.00 1.9
 149.28 336 ePKP 59 14.00 3.1X
 VAY 149.32 316 ePKP 59 14.00 2.0
 ENN 150.16 346 ePKP 59 17.00 5.0X
 SKO 1.0s 11.00nm
 150.30 318 iPKP 59 35.50
 150.30 318 iPKP 59 16.00 3.4X

Z 20s 0.62um 5.4MsZ
 E 18s 0.36um
 PTJ 150.78 329 ePKP 59 17.30 4.0X
 DOU 151.08 347 PKP 59 19.70 6.2X
 OHR 151.18 317 ePKP 59 17.80 3.8X
 BCAF 1.2s 67.00nm
 151.22 236 iPKPd 59 15.00 0.2
 FVI 0.5s 4.00nm
 151.65 334 PKP 59 24.50 10.1X
 SOTA 151.75 336 e(PKP) 59 20.00 5.2X
 0.9s 12.80nm
 VVI 152.29 333 PKP 59 27.70
 LOR 153.91 346 ePKP 59 30.50 15.1X
 0.7s 3.30nm
 Z 21s 0.35um 5.2MsZ
 LBF 154.15 346 ePKP 59 33.90 15.9X
 1.0s 8.00nm
 SSF 154.19 347 ePKP 59 34.40 16.4X
 0.5s 18.00nm
 MAF 155.18 347 ePKP 59 37.80 18.4X
 1.2s 10.40nm
 BNI 155.20 340 PKP 59 29.00 9.4X
 LSF 155.35 349 ePKP 59 37.30 17.7X
 1.1s 8.55nm
 S.D. = 1.4 on 64 of 104 obs.

& AUG 22, 1990 01h 02m 15.04s
 62.889 N 150.686 W
 DEPTH = 108.6km
 CENTRAL ALASKA (1)
 <AGS-P>.

HUR 0.49 79 iP 02 31.64 -0.3
 CUT 0.52 158 eP 02 43.84
 KTH 0.68 351 iP 02 31.98 -0.1
 SKT 0.68 351 iP 02 44.10
 MCK 0.99 204 iP 02 33.04 -0.4
 PWA 0.99 204 iP 02 46.34
 GH0 1.16 42 eP 02 36.04 -0.3
 1.30 163 eP 02 51.92
 1.39 143 iP 02 37.76 -0.4
 02 39.68 0.0
 02 40.89 0.0
 03 00.43
 02 41.04 -0.4
 03 01.75
 02 41.38 -0.6
 03 02.05
 02 41.30 -0.7
 02 42.20 -0.5
 02 43.47 -0.6
 02 44.47 -0.3
 02 44.57 -0.5
 03 06.88
 02 45.76 0.1
 02 46.86 0.6
 02 46.68 0.3
 02 47.15 0.3
 02 46.49 -0.6
 02 47.15 -0.8
 02 49.80 -1.0
 02 51.40 -0.2
 02 50.89 -0.9
 02 52.90 -0.6
 02 53.08 -0.7
 02 53.30 -1.0
 02 54.86 0.3
 02 55.03 -0.8
 02 55.13 -1.8
 02 58.24 0.8
 02 55.26 -2.2
 02 55.81 -1.9
 02 59.10 -0.7
 03 00.00 -0.9
 03 01.93 -1.0
 03 06.38 -0.6
 03 06.50 -1.4
 03 07.21 -1.8
 03 09.35 0.3
 39 obs. associated

AUG 22, 1990 01h 23m 51.97±0.52s
 2.464 N ± 9.4km 126.564 E ± 16.5km
 DEPTH = 33.0km (normal)
 4.8mb (10 obs.) 4.6MsZ (1 obs.)

MID-INDIAN RISE

(429)

MAW 28.23 193 iP 40 28.20 -0.2
 BUL 46.95 281 iPd 43 06.00 -0.7
 KRI 48.26 285 iPc 43 16.20 -0.9
 ASPA 49.09 87 iPd 43 23.00 -0.3

Z 21s 0.46um 4.4msz
 LR 01 17.00

STK 50.65 101 iPd 43 35.00 -0.1
 1.3s 11.00nm 4.6mb

WRA 51.57 84 Pd 43 42.40 0.2
 0.7s 9.50nm 4.8mb

WBS 51.63 84 eP 43 43.10 0.4
 GBA 54.09 359 Pd 44 01.00 0.2

1.0s 6.00nm 4.6mb
 PKI 68.28 7 P 45 34.70 -2.5

1.2s 33.00nm 5.4mb
 DMN 68.29 6 P 45 37.80 0.6

KKK 68.49 6 P 45 38.80 0.4
 1.0s 34.00nm 5.5mb

GKN 68.65 6 P 45 38.60 -0.7
 GUN 68.66 7 P 45 40.60 1.0

BCAO 70.77 294 iPc 45 55.00 2.6
 0.5s 5.00nm 4.9mb

INK 147.48 22 ePKP 54 21.00 5.3X
 S.D. = 1.2 on 14 of 15 obs.

* AUG 22, 1990 04h 08m 31.12±1.80s
 63.949 N ±11.5km 20.512 E ±19.3km
 DEPTH = 10.0km (geophysicist)

SWEDEN (536)
 ML 2.6 (UPP).

UME 0.18 222 iPg 08 36.00 0.8
 iSg 08 38.30

NSS 3.78 283 eP 09 31.65 1.1
 eS 10 17.26

UPP 4.33 200 iPg 09 48.10 9.7X
 iSg 10 44.20

LOF 5.07 329 eP 09 48.17 -0.7
 eS 10 46.04

KTk1 5.20 11 eP 09 50.88 0.1
 NRA0 5.28 236 Pn 09 50.50 -1.4

Sn 10 49.20
 Lg 11 17.40

TRO 5.74 354 eP 09 58.66 0.3
 MOL 6.01 263 eP 10 01.90 -0.3

S.D. = 1.0 on 7 of 8 obs.

% AUG 22, 1990 05h 31m 51.21±0.87s
 60.571 N ±4.8km 5.031 E ±10.0km
 DEPTH = 10.0km (geophysicist)

SOUTHERN NORWAY (535)
 MD 1.5 (BER).

BER 0.24 141 eP 31 56.18 -0.2
 eSg 31 59.75

SUE 0.51 345 eP 32 01.29 -0.1
 eSg 32 09.04

HYA 0.82 43 eP 32 06.88 -0.2
 eSg 32 18.94

ODD1 1.04 129 eP 32 10.44 -0.3
 eSg 32 24.08

KMY 1.37 175 eP 32 16.00 -0.3
 eSg 32 33.27

BLS2 1.60 142 eP 32 20.48 0.8
 eSg 32 40.50

MOL 2.34 30 eP 32 30.69 0.4
 NRA0 3.21 84 Pn 32 42.50 -0.1

Pg 32 47.60
 Sg 33 28.30

S.D. = 0.5 on 8 of 8 obs.

* AUG 22, 1990 06h 59m 38.29s
 62.163 N 153.156 W
 DEPTH = 5.1km
 CENTRAL ALASKA (1)
 <AGS-P>.

SKT 0.79 103 iP 59 53.29 -0.8
 NCG 0.90 148 iP 59 54.82 -1.2

iS 00 07.42
 BGL 0.97 158 iP 59 56.01 -1.3

iS 00 10.45
 CGLM 1.02 147 iP 59 56.95 -1.1

iS 00 11.43
 CRP 1.02 152 eP 59 57.10 -1.0

CKL 1.05 158 iP 00 11.45
 SPU 1.12 151 iP 59 57.45 -1.1

eS 59 58.83 -0.9
 SUA 1.34 120 eP 00 14.43

eS 00 03.09 -0.5
 CUT 1.37 79 eP 00 21.43

eS 00 03.26 -0.7
 TTA 1.53 301 iPd 00 21.49

SVW 1.58 229 iPd 00 21.49
 PWA 1.63 107 eP 00 03.70 -2.7

RDT 1.64 167 eP 00 05.60 -1.5
 eS 00 07.53 -0.2

NKA 1.70 146 eP 00 07.63 -0.2
 KTH 1.73 35 eP 00 29.92

RED 1.76 174 eP 00 10.35 1.7
 eS 00 07.82 -1.4

HUR 1.82 62 eP 00 09.33 -0.4
 eS 00 33.49

PMS 1.95 117 eP 00 10.48 -0.1
 PLRM 1.99 105 eP 00 34.53

PMR 1.99 105 eP 00 12.23 -0.1
 GH0 2.04 99 eP 00 12.29 -0.6

SLKM 2.18 138 iP 00 12.50 -0.4
 SML 2.30 97 eP 00 13.66 0.0

NNL 2.31 156 eP 00 15.63 -0.1
 PDB 2.44 192 eP 00 17.71 0.2

MCK 2.49 49 eP 00 18.52 0.9
 HOM 2.62 163 eP 00 17.68 -1.7

BRLK 2.65 154 eP 00 19.91 -0.2
 eS 00 21.69 -0.2

SEW 2.74 137 eP 00 22.35 -0.1
 SCM 2.77 94 eP 00 59.48

XLV 2.81 165 eP 00 24.04 0.4
 CNPM 2.81 160 eP 00 24.99 0.8

AUE 2.82 182 eP 00 24.25 -0.4
 MCNL 3.04 192 eP 00 24.30 -0.4

CDD 3.25 184 eP 00 23.14 -1.6
 WRH 3.25 42 eP 00 27.33 -0.6

TOA 3.28 88 eP 00 30.36 -0.6
 VZW 3.34 106 eP 00 29.40 -1.6

VLZ 3.42 105 eP 00 32.40 1.0
 CCB 3.46 42 eP 00 31.51 -0.8

KLU 3.50 98 eP 00 31.80 -1.4
 HDA 3.59 48 eP 00 32.04 -1.9

FBA 3.65 39 eP 00 33.73 -0.8
 DDM 3.71 61 eP 00 34.92 -0.9

GLM 3.83 40 eP 00 34.40 -2.2
 IMA 3.93 357 eP 00 36.64 -0.8

DOT 4.42 66 eP 00 37.10 -2.1
 GLB 4.49 95 eP 00 37.80 -2.9

TMW 4.82 72 eP 00 47.91 0.4
 BALM 5.28 98 eP 00 47.38 -1.2

DWY 6.51 67 P 01 53.50 0.3
 51 obs. associated

% AUG 22, 1990 07h 41m 00.90±4.29s
 43.847 N ±31.0km 7.907 E ±7.9km
 DEPTH = 10.0km (geophysicist)

NEAR SOUTH COAST OF FRANCE (379)
 ML 1.8 (GEN).

IMI 0.06 348 P 41 03.15 -0.1
 S 41 04.13

FIN 0.42 31 P 41 09.61 0.1
 S 41 14.37

ROB 0.45 357 P 41 09.97 -0.1
 S 41 14.82

ENR 0.52 317 P 41 11.46 0.1
 S 41 17.78

STV 0.58 314 P 41 12.28 -0.4
 S 41 19.87

PCP 0.83 33 P 41 17.04 0.0
 S 41 27.29

PZZ 0.88 319 P 41 18.37 0.5
 S.D. = 0.3 on 7 of 7 obs.

* AUG 22, 1990 07h 51m 49.50±0.62s
 37.056 N ±14.3km 49.327 E ±9.5km
 DEPTH = 10.0km (geophysicist)
 4.3mb (5 obs.)
 CASPIAN SEA (338)

Felt at Rudbor, Iran.

TEH 2.12 128 ePc 52 25.50 -0.1
 TAB 2.59 294 eP 52 37.00 4.7X

KER 3.25 214 eP 52 50.00 8.4X

MAIO 8.20 92 eP 53 50.00 -1.5
 eS 55 23.00

QUE 16.19 110 eP 55 40.50 1.7
 CLL 29.35 311 eP 57 55.00 0.6

1.1s 10.00nm 4.5mb
 HFS 32.34 327 eP 58 20.30 -0.4

0.4s 1.40nm 4.2mb
 NAO 33.92 327 P 58 34.50 0.1

0.8s 1.90nm 4.1mb
 EKA 39.58 315 Pd 59 22.80 0.5

0.7s 2.50nm 4.0mb
 NAI 39.87 200 eP 59 49.00 23.7X

BCAO 43.01 228 iPd 59 50.90 0.0
 0.5s 5.00nm 4.5mb

iS 02 03.50
 Lg 03 08.50

e 08 06.90
 KIC 57.82 252 P 01 42.60 -1.0

S.D. = 1.1 on 9 of 12 obs.

? AUG 22, 1990 08h 24m 37.03±4.11s
 40.643 N ±37.1km 23.857 E ±11.5km
 DEPTH = 33.0km (normal)

GREECE (364)

MMB 0.95 354 iPg 24 53.00 -1.1
 eSg 25 12.00

VAY 1.19 305 ePn 24 57.40 0.0
 RZN 1.23 32 iP 24 57.00 -1.1

iS 25 22.00
 KKB 1.35 335 eP 25 00.00 0.2

KDZ 1.55 49 iP 25 03.00 0.4
 iS 25 26.00

PGB 1.92 7 eP 25 10.00 2.0
 VTS 2.01 346 eP 25 09.00 -0.4

JMB 2.74 47 eP 25 44.00 24.4X
 S.D. = 1.3 on 7 of 8 obs.

% AUG 22, 1990 08h 29m 03.47±0.64s
 40.137 N ±4.9km 29.366 E ±6.2km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

IZI 0.22 22 iPg 29 08.80 0.6
 iSg 29 13.00

HRT 0.72 19 ePg 29 17.70 0.0
 DST 0.78 227 iPg 29 19.00 0.3

iSg 29 27.00
 ISK 0.96 346 ePn 29 21.00 -0.7

BNT 1.13 282 ePn 29 24.60 0.0
 ALT 1.22 152 ePn 29 26.00 -0.3

CTT 1.24 325 iPn 29 26.40 0.0
 KGT 1.61 282 iPn 29 32.00 0.0

S.D. = 0.5 on 8 of 8 obs.

% AUG 22, 1990 09h 08m 17.94±1.18s
 18.188 N ±13.9km 67.049 W ±11.2km
 DEPTH = 33.0km (normal)

MONA PASSAGE (89)

MGP 0.18 192 iP 08 24.10 -0.3
 LRS 0.22 61 iP 08 26.00 1.8

MCP 0.24 346 iP 08 24.60 -0.3
 S 08 45.70

PORP 0.41 109 iP 08 28.70 1.4
 CSB 0.85 83 iP 08 33.00 -0.6

SJG 0.86 95 iP 08 33.80 0.2
 CPD 1.09 98 iP 08 36.00 -0.9

LPR 1.13 84 iP 08 36.30 -1.2
 S.D. = 1.3 on 8 of 8 obs.

% AUG 22, 1990 09h 38m 25.11±3.16s
 41.610 N ±17.9km 15.558 E ±24.0km
 DEPTH = 10.0km (geophysicist)

SOUTHERN ITALY (390)

DUI 0.83 274 P 38 41.10 0.0
 eSg 38 52.60

BSS 1.00 215 P 38 43.90 -0.1
 eSg 38 57.70

SGO 1.07 190 P 38 45.40 0.2
 eSg 39 01.10

MGR 1.47 180 P 38 51.50 -0.2
 eSg 39 11.00

AZI 1.63 284 P 38 54.00 0.1
 eSg 39 15.50

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

LPF 147.16 10 ePKP 56 36.60 5.4X
 1.1s 19.55nm
 CDF 147.40 359 ePKP 56 38.30 6.6X
 1.0s 10.00nm
 HAU 147.81 0 ePKP 56 39.90 7.6X
 1.0s 12.00nm
 LOR 148.46 4 ePKP 56 41.70 8.3X
 0.9s 8.20nm
 Z 21s 0.22um 4.9Msz
 SSF 148.64 4 ePKP 56 42.20 8.6X
 1.1s 17.10nm
 LBF 148.75 4 ePKP 56 42.30 8.4X
 1.2s 13.40nm
 AVF 148.90 4 ePKP 56 42.40 8.4X
 1.0s 8.00nm
 SMF 149.08 4 ePKP 56 43.00 8.7X
 1.1s 12.20nm
 BGF 149.09 5 ePKP 56 43.00 8.6X
 1.1s 19.55nm
 LSF 149.26 7 ePKP 56 44.20 9.6X
 1.2s 17.85nm
 MAF 149.40 6 ePKP 56 44.20 9.3X
 1.2s 17.85nm
 LFF 150.44 9 ePKP 56 46.70 10.3X
 1.2s 20.85nm
 S.D. = 1.4 on 20 of 39 obs.

% AUG 22, 1990 13h 02m 35.32±1.59s
 40.945 N ±12.9km 29.843 E ± 9.6km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

HRT 0.18 227 ePg 02 39.20 -0.2
 EYL 0.45 148 iPg 02 44.10 -0.4
 ISK 0.61 282 ePg 02 47.40 -0.1
 0.5s 02 54.90
 IZI 0.67 205 iPg 02 48.10 -0.6
 0.5s 02 57.40
 GPA 0.75 151 iPg 02 50.40 0.4
 CTT 1.09 281 iPn 02 55.00 -0.8
 BNT 1.58 249 iPn 03 04.50 1.1
 EDC 1.62 249 ePn 03 04.50 0.5
 DST 1.63 215 ePn 03 05.80 1.6X
 ALT 1.90 174 ePn 03 10.00 1.8X
 S.D. = 0.8 on 8 of 10 obs.

% AUG 22, 1990 13h 06m 09.16±1.25s
 44.559 N ±10.5km 7.408 E ± 5.8km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 1.8 (GEN).

PZZ 0.23 256 P 06 14.32 0.2
 S 06 17.22
 STV 0.32 191 P 06 15.42 -0.4
 S 06 18.95
 ENR 0.33 178 P 06 16.14 0.0
 S 06 20.51
 ROB 0.42 128 P 06 18.32 0.5
 FIN 0.67 121 P 06 22.63 0.1
 PCP 0.81 91 P 06 24.58 -0.4
 S.D. = 0.5 on 6 of 6 obs.

% AUG 22, 1990 13h 12m 28.23±0.89s
 43.055 N ±10.7km 0.574 W ± 5.3km
 DEPTH = 10.0km (geophysicist)
 PYRENEES (378)
 MD 1.0 (STR).

ESCF 0.02 358 Pg 12 29.92 -0.3
 ATE 0.10 288 Pg 12 31.11 0.1
 Sg 12 32.91
 OGE 0.14 33 Pg 12 31.39 -0.1
 Sg 12 33.54
 JAU 0.15 96 Pg 12 32.04 0.2
 Sg 12 34.21
 ISSF 0.16 261 Pg 12 31.67 -0.4
 MADF 0.20 297 Pg 12 33.15 0.5
 Sg 12 36.62
 S.D. = 0.4 on 6 of 6 obs.

% AUG 22, 1990 13h 30m 49.29±0.93s
 42.842 N ±19.5km 17.642 E ± 9.3km
 DEPTH = 10.0km (geophysicist)
 ADRIATIC SEA (382)
 ML 2.0 (TTG).

BRY 0.67 85 ePg 31 02.00 -0.6
 eSg 31 10.00
 HCY 0.74 122 ePg 31 03.80 -0.1
 eSg 31 13.30
 HVAR 0.94 291 iPg 31 07.10 -0.1
 iSg 31 21.60
 BDV 1.04 122 ePg 31 08.70 -0.2
 eSg 31 23.00
 TTG 1.26 108 ePg 31 12.50 -0.2
 eSg 31 30.00
 PVY 1.74 97 ePn 31 21.00 1.2
 eSn 31 44.00
 S.D. = 0.8 on 6 of 6 obs.

% AUG 22, 1990 15h 07m 00.72±1.21s
 26.384 S ±10.6km 27.410 E ±12.7km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 2.2 (PRE).

PRY 0.54 174 eP 07 11.00 -0.7
 S 07 19.00
 BPI 0.59 70 eP 07 01.90 -10.7X
 S 07 19.00
 BFS 0.76 227 eP 07 16.00 0.0
 SLR 1.02 51 eP 07 20.00 -0.5
 S 07 32.40
 EVA 1.50 95 eP 07 56.50 28.0X
 S 08 15.00
 SEK 1.94 174 eP 07 35.50 0.7
 S 07 59.00
 BFT 2.47 74 eP 07 43.00 0.5
 S 08 13.00
 S.D. = 0.8 on 5 of 7 obs.

? AUG 22, 1990 16h 00m 14.37±1.06s
 38.654 N ± 6.6km 15.610 E ±18.4km
 DEPTH = 10.0km (geophysicist)
 SICILY (398)

ATN 0.51 193 P 00 25.00 0.4
 eSn 00 37.00
 SDI 0.68 149 P 00 27.40 -0.4
 eSn 00 41.90
 TDS 1.15 29 P 00 36.50 0.6
 eSg 00 57.00
 MGR 1.48 358 P 00 40.50 -0.6
 eSn 01 04.00
 S.D. = 1.0 on 4 of 4 obs.

% AUG 22, 1990 16h 08m 55.40±0.69s
 26.363 S ± 6.6km 27.415 E ± 6.9km
 DEPTH = 10.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 2.4 (PRE).

PRY 0.57 175 eP 09 07.50 0.5
 S 09 14.50
 BPI 0.58 71 eP 09 07.00 -0.3
 S 09 13.40
 KSR 0.68 317 eP 09 09.50 0.5
 BFS 0.78 226 eP 09 10.00 -0.6
 SLR 1.00 51 eP 09 13.50 -0.9
 S 09 25.90
 EVA 1.50 96 eP 09 51.00 28.5X
 S 10 09.50
 SEK 1.96 175 eP 09 29.00 -0.2
 S 09 53.50
 BFT 2.46 75 eP 09 37.50 1.1
 S 10 08.00
 S.D. = 0.9 on 7 of 8 obs.

? AUG 22, 1990 16h 43m 38.87±0.90s
 26.478 S ± 8.4km 27.449 E ± 8.1km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 2.1 (PRE).

PRY 0.45 177 eP 43 51.50 3.6X
 S 43 58.00
 BPI 0.60 60 eP 43 50.70 -0.3
 S 43 56.00
 BFS 0.73 235 eP 43 53.00 -0.4
 KSR 0.79 321 eP 43 55.00 0.3
 SLR 1.05 46 eP 43 56.50 -2.8X
 S 44 08.90
 EVA 1.46 91 eP 44 34.00 27.9X

SEK 1.84 175 eP 44 53.00
 S 44 12.00 0.4
 S 44 36.70
 BFT 2.46 72 eP 44 27.00 6.5X
 S 44 31.00
 S.D. = 0.7 on 4 of 8 obs.

% AUG 22, 1990 16h 45m 14.67±0.64s
 26.355 S ± 5.9km 27.417 E ± 6.1km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 2.9 (PRE).

PRY 0.57 175 eP 45 27.50 1.3
 S 45 33.50
 BPI 0.58 72 eP 45 26.20 -0.1
 S 45 33.00
 KSR 0.68 316 eP 45 29.10 0.9
 BFS 0.78 226 eP 45 30.50 0.0
 SLR 0.99 52 eP 45 33.50 -0.6
 S 45 45.90
 EVA 1.50 96 eP 46 11.00 28.6X
 S 46 29.00
 SEK 1.97 175 eP 45 48.90 -0.3
 S 46 11.50
 BFT 2.45 75 eP 45 56.50 0.3
 S 46 25.50
 BLF 2.95 201 eP 46 03.50 0.3
 KIM 3.34 224 eP 46 07.00 -1.8
 S.D. = 1.0 on 9 of 10 obs.

AUG 22, 1990 17h 18m 49.87±0.63s
 3.585 N ± 3.8km 124.562 E ± 5.4km
 DEPTH = 334.1 ± 6.8 km
 5.0mb (28 obs.)

CELEBES SEA (262)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 9S, 18C
 Centroid Location:
 Origin Time 17:18:49.2 1.0
 Lat 3.78N 0.12 Lon 124.79E 0.12
 Dep 325.3 3.9 Half-duration 1.5
 Moment Tensor; Scale 10¹⁶ Nm
 Mrr=-5.73 0.74 Mtt= 0.71 0.82
 Mff= 5.02 1.10 Mrt= 1.61 0.80
 Mrf=-2.07 0.69 Mtf= 2.23 1.02
 Principal Axes:
 T Vol= 6.11 Plg= 7 Azm=111
 N 0.56 19 18
 P -6.67 69 219
 Best Double Couple: Mo=6.4*10¹⁶
 NP1: Strike=221 Dip=42 Slip=-60
 NP2: 4 55 -114

KKM 8.67 287 ePc 20 52.50 -0.2
 1.1s 534.50nm 5.6mb X
 QCP 11.51 343 eP 21 32.00 4.9X
 BAG 13.33 343 eP 21 47.60 -1.7
 1.1s 326.58nm 5.6mb X
 eS 24 12.00
 TRT 16.35 227 iPc 22 21.10 -1.2
 0.8s 203.20nm 5.5mb
 MTN 17.58 158 iPc 22 33.80 -1.2
 KNA 19.66 168 iPd 22 55.50 -0.3
 eS 26 24.00
 OIZ 21.04 318 eP 23 10.30 1.1
 SP 24 36.00
 S 26 37.50
 KGM 21.27 266 ePc 23 13.40 1.9
 QZH 22.00 345 eP 23 19.40 1.0
 IPM 23.50 273 ePd 23 33.70 1.2
 0.9s 39.50nm 4.8mb
 SNG 24.10 280 eP 23 38.70 0.7
 PPI 24.48 261 eP 23 42.50 1.0
 WB5 25.23 158 iPc 23 47.00 -1.3
 eS 27 44.00
 WRA 25.28 158 Pc 23 47.10 -1.6
 0.4s 22.20nm 4.9mb
 PMG 25.95 120 eP 23 54.00 -0.8
 NNT 26.13 291 eP 23 56.20 -0.3
 LOE 26.27 303 eP 23 57.50 -0.2
 NST 26.87 298 eP 24 05.00 1.9
 OIS 28.17 149 iPd 24 13.70 -0.9
 eS 28 37.00
 GYA 28.48 325 P 24 18.20 0.8
 WHN 28.50 341 Pc 24 18.50 1.2

SDN	78.51	34	eP	37	52.00	
SVW	81.95	29	iPd	30	16.10	0.2
TTA	82.01	27	iPd	30	35.70	1.8
	0.9s			30	35.60	1.4
			61.20nm			5.4mb
MAW	82.88	200	iPd	30	39.00	0.7
IMA	83.39	24	iPd	30	42.60	1.4
	0.9s					
			54.30nm			5.4mb
PMR	85.11	29	eP	30	49.40	-0.2
TOA	86.51	28	iPd	30	57.50	1.0
JVI	87.46	302	eP	31	01.40	-0.2
MKT	87.67	301	eP	31	03.10	0.4
PRNI	87.83	300	iPd	31	03.50	0.0
NAI	87.84	269	iPc	31	05.00	0.9
KEV	89.28	340	eP	31	08.00	-1.4
SOD	89.77	337	iP	31	10.60	-1.1
SUF	90.70	333	iP	31	15.00	-1.0
INK	91.09	21	eP	31	17.00	-0.7
NUR	91.78	331	iP	31	20.00	-1.0
	0.7s					
			16.00nm			5.1mb
MBC	92.56	12	eP	31	24.50	0.1
KRA	96.60	321	eP	31	41.90	-1.4
BUL	96.80	250	iPd	31	43.60	-1.3
	1.0s					
			8.00nm			4.9mb
HFS	97.13	332	eP	31	43.00	-2.5
	0.4s					
			2.00nm			4.7mb
NAO	98.20	333	P	31	48.40	-1.9
	0.8s					
			4.10nm			4.8mb
BRG	100.06	323	iPd diff	31	58.80	0.0
	1.0s					
			16.00nm			5.4mb
KVN	108.54	47	ePKP	36	42.10	0.9
FKO	124.87	42	ePKP	37	03.50	-8.8X
	1.1s					
			53.80nm			
KIC	128.43	281	PKP	37	19.60	-0.1
LKO	128.65	285	PKP	37	18.70	-1.5
	0.5s					
			14.50nm			
TIC	128.65	281	PKP	37	20.26	0.1
LIC	128.73	281	PKP	37	20.42	0.1
	0.5s					
			13.00nm			
LNV	146.32	156	iPKP	37	54.00	2.3
CHCN	146.64	157	iPKP	37	55.50	3.2X
SAN	147.06	156	ePKP	37	56.60	3.6X
MDZ	148.26	158	ePKP	37	57.10	2.1
CNCB	161.99	138	PKP	38	16.70	3.0X
LPB	162.10	137	ePKP	38	16.00	2.4X
ZOBO	162.27	136	PKP	38	16.00	2.0
	1.2s					
			16.89nm			
SIV	166.48	156	PKPd	38	18.20	1.1
		i		39	22.30	
S.D. = 1.1 on 96 of 105 obs.						
• AUG 22, 1990 17h 51m 51.63±1.71s						
19.005 S ±15.4km 68.362 W ±13.9km						
DEPTH = 199.4 ± 43.6 km						
CHILE-BOLIVIA BORDER REGION (124)						
CNCB	2.21	10	iPd	52	31.20	-2.1
LPB	2.47	6	iPd	52	37.10	1.1
		i		53	15.00	
CCH	2.66	53	P	52	39.10	1.1
		i		53	19.00	
ZOBO	2.73	5	P	52	39.20	0.1
		S		53	24.00	
ARE	3.91	310	iP	52	53.50	0.4
		iS		53	48.00	
ANT	5.05	202	eP	53	07.20	-0.1
SIV	7.57	68	P	53	40.00	-0.4
S.D. = 1.5 on 7 of 7 obs.						
? AUG 22, 1990 17h 55m 16.34±9.97s						
48.104 N ±28.9km 1.959 W ±85.9km						
DEPTH = 10.0km (geophysicist)						
FRANCE (538)						
ML 2.0 (LDG).						
GRR	0.79	68	Pg	55	31.40	-0.3
			Sg	55	44.20	
FLN	1.18	56	Pg	55	38.40	0.0
			Sg	55	56.00	
LDF	1.32	68	Pg	55	41.00	0.3
			Sg	55	59.60	
MFF	1.94	140	Pg	55	49.70	0.0
			Sg	56	14.40	
S.D. = 0.4 on 4 of 4 obs.						
• AUG 22, 1990 18h 30m 08.86±0.96s						
50.400 N ±10.8km 12.235 E ±8.3km						

DEPTH = 10.0km (geophysicist)									
GERMANY					(543)				
ML 2.4 (GRF).									
HOF	0.24	249	iPg	30	15.00	0.9			
MOX	0.47	302	iPg	30	18.60	0.3			
			eSg	30	24.20				
GRF	0.96	223	iPg	30	27.80	0.6			
			eSg	30	41.00				
CLL	1.03	28	iPg	30	28.50	0.1			
			i	30	34.70				
			iSg	30	42.20				
BRG	1.19	66	iPg	30	31.00	0.0			
			i	30	34.50				
			i	30	36.60				
			iSg	30	46.80				
			i	30	52.20				
TOD	2.35	252	ePn	30	46.23	-1.9			
KSP	2.62	79	ePn	30	58.00	6.0X			
			iPg	31	03.20				
			iS	31	32.00				
S.D. = 1.3 on 6 of 7 obs.									
AUG 22, 1990 18h 46m 21.81± 0.77s									
6.438 S ± 8.5km 142.997 E ± 8.0km									
DEPTH = 10.0km (geophysicist)									
4.0mb (2 obs.)									
PAPUA NEW GUINEA					(202)				
MNDI	0.71	67	eP	46	35.00	-1.0			
LAT	3.98	93	eP	47	25.00	0.8			
JAY	4.52	330	ePd	47	32.30	0.4			
PMG	5.07	126	eP	47	40.00	0.4			
MTN	13.32	241	eP	49	29.00	-4.5X			
	0.3s		15.00nm			5.5mb X			
QIS	14.42	193	eP	49	48.00	0.0			
WB5	15.77	211	eP	50	04.50	-1.3			
			eS	52	58.00				
WRA	15.84	211	Pc	50	04.00	-2.6X			
	0.5s		2.50nm			3.6mb			
ASPA	19.23	206	iPc	50	49.80	0.8			
	0.8s		17.00nm			4.4mb			
S.D. = 1.0 on 7 of 9 obs.									
AUG 22, 1990 20h 08m 01.27± 1.20s									
15.453 S ± 8.7km 167.380 E ± 8.1km									
DEPTH = 136.1 ± 10.2 km									
5.1mb (6 obs.)									
VANUATU ISLANDS					(186)				
PVC	2.44	159	iP	08	41.20	-0.3			
			iS	09	12.00				
DZM	6.64	188	iPd	09	37.80	0.0			
			iS	10	54.00				
HNR	9.41	309	ePc	10	15.00	0.2			
			eS	12	06.00				
BRS	18.03	226	iPc	12	06.70	2.0			
RMO	20.54	235	iPd	12	32.10	1.3			
COO	20.69	221	eP	12	29.70	-2.7X			
NOZ	24.91	160	P	13	11.90	-1.2			
CMS	25.33	227	iPd	13	18.00	0.9			
PGZ	26.24	165	P	13	26.10	0.8			
L TZ	27.56	172	P	13	36.50	-0.8			
STK	28.62	231	iPd	13	47.70	0.8			
	0.9s		21.00nm			4.8mb			
WB5	31.73	257	eP	14	13.00	-1.4			
WRA	31.76	257	Pc	14	13.50	-1.2			
	0.6s		6.40nm			4.6mb			
ASPA	32.52	250	iPd	14	20.60	-0.8			
	0.4s		78.00nm			5.8mb			
FORR	39.01	240	iPd	15	16.70	0.6			
	0.4s		60.00nm			5.7mb			
WARB	39.40	247	iPd	15	19.90	0.5			
COOL	44.87	242	eP	16	02.40	-1.5			
	0.5s		17.00nm			5.0mb			
KLB	47.84	241	eP	16	26.20	-1.0			
BAL	48.62	243	eP	16	32.00	-1.2			
MUN	49.20	241	eP	16	37.00	-0.7			
NANU	49.34	253	eP	16	39.00	0.3			
SPA	74.65	180	iPd	19	21.80	-5.4X			
	0.7s		16.41nm			4.9mb			
CNCB	116.67	118	PKP	26	26.00	-6.5X			
LPB	116.70	118	PKP	26	29.00	-3.3X			
SIV	122.86	121	ePKP	26	33.00	-10.6X			
			i	27	34.20				
HAU	143.96	338	ePKP	27	19.70	-2.4			
	0.7s		3.30nm						

FLN 145.32 346 ePKP 27 23.20 -1.1
0.5s 9.50nm
LDF 145.39 345 ePKP 27 23.30 -1.2
0.5s 4.35nm
LOR 145.45 340 ePKP 27 24.00 -0.7
0.9s 8.20nm
LBF 145.66 340 ePKP 27 24.80 -0.3
0.6s 4.50nm
SSF 145.75 340 ePKP 27 25.30 0.2
0.7s 7.70nm
GRR 145.76 346 ePKP 27 24.70 -0.4
0.7s 9.90nm
LPL 145.89 335 ePKP 27 25.90 0.2
0.6s 2.25nm
LPG 145.90 335 ePKP 27 26.00 0.2
0.6s 2.70nm
SMF 146.00 340 ePKP 27 25.80 0.2
0.4s 1.45nm
AVF 146.04 340 ePKP 27 26.10 0.5
0.5s 4.00nm
LPF 146.14 346 ePKP 27 25.90 0.2
0.6s 7.20nm
BGF 146.41 341 ePKP 27 26.70 0.5
0.6s 4.95nm
MAF 146.79 341 ePKP 27 28.10 1.2
1.1s 8.55nm
TCF 146.85 341 ePKP 27 28.20 1.2
0.6s 2.25nm
LSF 147.09 342 ePKP 27 28.60 1.3
0.6s 4.95nm
MFF 147.24 344 ePKP 27 29.00 1.5
0.7s 8.80nm
BCAO 147.47 254 iPKPd 27 30.40 1.5
0.5s 15.00nm
LPO 148.60 341 ePKP 27 33.20 3.4X
0.8s 8.05nm
S.D. = 1.1 on 38 of 44 obs.

& AUG 22, 1990 21h 24m 06.00s
37.202 N 122.075 W
DEPTH = 11.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 3.7 (BRK).
Mo=4.7*10**14 Nm (BRK). Felt
(IV) at Boulder Creek, Los Gatos
and San Carlos; (III) at Loma
Mor, Monte Serrano, Redwood
Estates and Scotts Valley; (II)
at San Jose. Also felt at
Campbell, Cupertino and Santa
Cruz.

GCC 0.18 160 iPc 24 09.70 -0.5
MHC 0.37 68 iPd 24 13.60 -0.1
iS 24 19.30
PCC 0.38 321 iP 24 13.20 -0.7
ARN 0.46 71 iPc 24 14.90 -0.5
SAO 0.67 131 iP 24 17.60 -1.6
i 24 29.15
iS 24 29.50
BKS 0.69 349 eP 24 18.70 -0.8
i 24 19.10
iS 24 27.75
BRK 0.69 348 iPd 24 19.00 -0.5
iS 24 27.00
ZSP 0.76 349 iP 24 20.40 -0.3
PRS 1.04 147 eP 24 24.10 -1.4
LLA 1.08 122 iP 24 24.90 -1.3
PRI 1.55 133 eP 24 32.20 -1.5
CMB 1.58 58 eP 24 32.30 -1.7
FRI 1.90 96 eP 24 37.00 -1.7
PHAM 1.92 135 eP 24 36.70 -2.2
ORV 2.39 11 eP 24 43.00 -2.7
BCH 2.58 141 eP 24 44.80 -3.7
ABL 3.29 135 eP 24 55.00 -3.8
KVN 3.64 58 eP 25 01.00 -2.6
18 obs. associated

? AUG 22, 1990 22h 14m 12.29±2.15s
41.710 S ±30.0km 173.599 E ±29.6km
DEPTH = 75.6 ±38.5 km
4.6mb (3 obs.)
SOUTH ISLAND, NEW ZEALAND (162)
Felt at Nelson, Christchurch and
Blenheim. Also felt at
Wellington, North Island.

WEL 0.98 65 P 14 31.00 0.0
S 14 49.00
CAN 20.24 280 eP 18 44.00 0.3
eTT 36 30.00
BWA 21.07 282 eP 18 51.90 -0.3
eTT 36 45.00
ASPA 37.55 286 eP 21 21.00 0.2
0.8s 4.00nm 4.4mb
WRA 39.63 291 Pd 21 38.30 0.1
0.5s 3.60nm 4.6mb
WB5 39.65 291 eP 21 38.20 -0.2
SPA 48.48 180 eP 22 49.20 0.3
0.7s 8.20nm 4.8mb
MAW 59.29 205 iP 24 07.50 -0.3
KIC 144.77 183 PKP 33 52.60 10.3X
LKO 147.96 182 PKPd 33 50.74 3.2X
0.8s 17.00nm
S.D. = 0.3 on 8 of 10 obs.

? AUG 22, 1990 22h 31m 48.90±3.77s
2.953 N ±47.8km 127.271 E ±22.5km
DEPTH = 33.0km (normol)
5.2mb (6 obs.)
MOLUCCA PASSAGE (266)

MTN 16.16 166 iPd 35 35.60 0.4
TRT 18.04 234 iPd 36 10.30 11.5X
WB5 23.74 163 iP 36 59.10 -0.1
eS 40 57.00
WRA 23.79 163 Pc 36 59.80 0.1
0.4s 19.20nm 5.0mb
OIS 26.31 153 eP 37 24.00 0.4
ASPA 27.24 167 iPc 37 31.40 -0.7
0.3s 31.00nm 5.4mb
FORR 33.62 179 iPd 38 27.20 -1.3
0.4s 46.00nm 5.7mb
COOL 34.15 189 eP 38 32.00 -1.2
0.3s 6.00nm 5.0mb
BAL 34.86 196 eP 38 40.30 1.0
KLB 35.53 194 iPc 38 45.00 0.1
0.3s 12.00nm 5.3mb
MUN 36.29 196 eP 38 51.50 0.1
NWA0 36.93 194 eP 38 57.30 0.6
STK 37.22 160 iPc 38 59.60 0.5
0.9s 29.00nm 5.1mb
e 40 21.90
S.D. = 0.8 on 12 of 13 obs.

? AUG 22, 1990 23h 22m 59.90±2.03s
50.398 N ±32.1km 19.146 E ±15.6km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 2.9 (KRA).

KRA 0.61 124 ePc 23 13.00 0.7
iSg 23 22.00
SPC 1.40 149 ePn 23 24.70 -1.0
i 23 28.40
i(Sg) 23 42.80
KSP 1.87 285 iPg 23 31.70 -0.5
iS 23 54.80
ZST 2.50 212 eP 24 10.60 20.3X
e 24 33.40
PRU 2.99 264 ePg 23 51.00 2.9X
Sg 24 27.00
KHC 3.83 253 ePn 24 00.90 0.8
ePg 24 05.30
Sg 24 55.00
S.D. = 1.5 on 4 of 6 obs.

% AUG 22, 1990 23h 28m 09.53±1.88s
44.169 N ±13.1km 7.306 E ±13.0km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.6 (GEN).

STV 0.08 10 P 28 11.87 -0.2
S 28 13.27
ENR 0.10 55 P 28 12.46 0.1
S 28 14.17
PZZ 0.37 336 P 28 17.20 0.1
S 28 21.51
ROB 0.43 73 P 28 18.23 0.0
S 28 24.27
IMI 0.49 121 P 28 19.56 0.0
S 28 26.43
S.D. = 0.2 on 5 of 5 obs.

AUG 22, 1990 23h 47m 05.75±0.63s
35.215 N ±4.2km 140.421 E ±4.1km
DEPTH = 26.0 ±3.9 km
5.0mb (45 obs.) 4.8Msz (11 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)
Felt (IV JMA) in the Chibo oreo
and (III JMA) in the Tokyo-
Yokohama oreo. Felt (IV) at
Yokosuko.
CENTROID. MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 18C
Centroid Location:
Origin Time 23:47:11.8 1.2
Lat 35.43N 0.10 Lon 139.95E 0.09
Dep 15.0 FIX Half-duration 1.5
Moment Tensor: Scale 10**16 Nm
Mrr=-0.83 0.36 Mtt=-2.01 0.48
Mff= 2.84 0.45 Mrt=-2.34 1.25
Mrf= 0.82 1.68 Mtf= 6.98 0.47
Principal Axes:
T Vol= 7.86 Plg= 5 Azm=126
N -0.06 71 230
P -7.79 19 35
Best Double Couple: Mo=7.8*10**16
NP1:Strike=172 Dip=73 Slip=-170
NP2: 79 80 -17

KAKJ 1.01 349 P 47 22.90 -1.2
CHJJ 1.43 306 iP+ 47 30.00 -0.1
IIDJ 2.07 278 P 47 40.50 1.0
eS 48 05.80
MAT 2.23 307 iPc 47 41.50 -0.3
eS 48 08.00
NIIJ 2.32 331 iP+ 47 42.20 -0.8
MTMJ 2.53 304 P 47 46.10 0.0
S 48 16.40
YAMJ 2.97 354 P 47 51.90 -0.3
TSRJ 3.64 276 P 48 03.00 1.2
OFUJ 3.98 14 P 48 04.70 -1.9
eS 48 50.10
WKYJ 4.10 257 iPd 48 09.10 0.8
TKSJ 5.40 259 P 48 27.50 0.9
YONJ 5.70 272 P 48 31.60 0.7
SHK 6.40 266 eP 48 42.50 1.7
MRRJ 7.22 4 P 48 48.70 -3.5X
HOOJ 7.50 16 P 48 52.30 -3.8X
eS 50 10.90
SHNJ 7.75 265 P 49 01.40 1.7
KUMJ 8.41 254 eP 49 10.70 1.8
KUSJ 8.55 22 P 49 05.00 -5.7X
eS 50 33.60
KAGJ 8.94 246 eP 49 17.60 1.4
ASAJ 9.05 10 eP 49 11.80 -6.0X
MDJ 12.53 322 eP 50 04.60 -0.5
Z 20s 2.50um
E 15s 2.10um
SP 50 14.00
eS 52 26.00
CN2 14.37 311 eP 50 31.50 2.1
Z 15s 2.40um
N 15s 2.20um
E 15s 0.40um
PP 50 36.80
PP 50 43.20
eS 53 10.00
SS 53 22.00
SNY 14.73 302 eP 50 35.00 0.9
1.2s 60.00nm 4.9mb
Z 19s 2.30um 4.6Mszx
N 10s 1.20um
PP 50 38.50
SP 50 42.50
S 53 20.00
SS 53 37.00
DL2 15.45 289 P 50 46.00 2.5
1.0s 100.00nm 5.0mb
Z 18s 2.10um 4.1Msz
E 12s 1.70um
S 53 39.00
NJ2 18.23 266 Pc 51 18.70 0.1
Z 22s 0.50um
eS 54 36.00
TIA 18.94 280 eP 51 24.80 -2.5
Z 18s 2.20um 4.8Msz
S 54 55.00

0.3s 6.00nm 4.8mb
 STK 49.21 185 eP 44 07.90 -0.4
 1.8s 51.00nm 5.0mb
 NANU 49.76 218 eP 44 12.40 -0.2
 INK 70.38 23 eP 46 32.00 -0.6
 ZOBO 147.20 93 ePKP 54 46.00 -13.9X
 LPB 147.26 94 (PKP) 55 01.00 1.2
 CNCB 147.40 94 PKP 55 04.00 3.8X
 S.D. = 0.9 on 12 of 15 obs.

? AUG 23, 1990 02h 07m 04.67±13.74s
 44.264 N ±71.8km 10.521 E ±60.9km
 DEPTH = 5.0km (geophysicist)
 NORTHERN ITALY (545)

MME 0.15 119 P 07 07.50 -0.3
 eSg 07 11.90
 BDI 0.21 165 P 07 09.20 0.2
 eSg 07 14.30
 PII 0.54 180 P 07 15.30 -0.2
 eSg 07 23.90
 PGD 0.95 114 P 07 23.50 0.2
 S.D. = 0.5 on 4 of 4 obs.

% AUG 23, 1990 02h 33m 36.28±0.98s
 40.675 N ±9.7km 29.960 E ±8.2km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

EYL 0.19 126 iPg 33 40.50 0.0
 HRT 0.27 303 ePg 33 42.00 0.1
 IZI 0.50 228 iPg 33 46.50 0.0
 iSg 33 54.50
 ISK 0.79 300 ePg 33 51.50 -0.1
 CTT 1.25 293 ePn 33 59.50 -0.1
 S.D. = 0.1 on 5 of 5 obs.

AUG 23, 1990 02h 44m 56.91±0.74s
 35.303 N ±4.6km 140.359 E ±4.8km
 DEPTH = 44.1 ±6.4 km
 4.9mb (25 obs.) 4.6Msz (4 obs.)
 NEAR EAST COAST OF HONSHU, JAPAN(228)
 Felt (IV JMA) of Kotsuura.

KAKJ 0.91 351 P 45 12.30 -1.1
 S 45 24.20
 CHJJ 1.34 304 P 45 19.70 0.3
 IIDJ 2.01 276 P 45 30.30 1.3
 S 45 57.70
 MAT 2.14 306 eP 45 31.00 0.2
 eS 45 58.00
 NIJJ 2.22 331 P 45 32.00 0.0
 MTMJ 2.44 302 P 45 35.50 0.3
 YAMJ 2.88 355 P 45 41.70 0.4
 TSRJ 3.58 275 P 45 53.30 2.0
 OFUJ 3.91 15 P 45 54.40 -1.6
 eS 46 42.10
 WKYJ 4.07 256 P 45 59.10 0.7
 AOMJ 5.25 0 P 46 14.90 0.1
 TKSJ 5.37 258 P 46 17.40 0.8
 YONJ 5.64 271 eP 46 20.10 -0.4
 SHK 6.36 265 eP 46 30.30 -0.2
 MRRJ 7.13 4 eP 46 40.50 -0.8
 HOOJ 7.43 17 eP 46 43.60 -1.8
 S 48 03.00
 SHNJ 7.71 264 eP 46 47.30 -2.0
 KUMJ 8.39 253 eP 47 00.50 1.7
 KUSJ 8.48 22 P 46 54.70 -5.3X
 S 48 24.70
 ASAJ 8.98 11 P 47 03.20 -3.7X
 MDJ 12.43 322 eP 47 52.00 -1.7

Z 20s 1.90um
 SP 48 05.00
 eS 50 12.00
 SS 50 20.00
 CN2 14.28 311 eP 48 21.00 2.9

Z 15s 1.80um
 N 15s 1.30um
 E 15s 0.60um

ePP 48 27.00
 eS 51 02.00
 SNY 14.64 301 Pc 48 24.00 1.1

1.4s 40.00nm 4.6mb
 Z 19s 1.80um 4.6MszX
 N 10s 0.80um
 SP 48 37.40
 S 51 06.00

DL2 15.37 289 eP 48 33.00 0.7
 Z 18s 1.50um
 E 14s 1.80um
 eS 51 27.00
 SSE 16.58 261 eP 48 52.50 4.7X
 Z 18s 2.20um
 eSP 49 07.50
 S 51 55.00
 TIA 18.87 280 eP 49 15.00 -1.2
 Z 18s 1.40um 4.8Msz
 E 14s 1.70um
 eSS 52 54.00

BII 19.70 291 eP 49 22.50 -2.8
 1.5s 52.00nm 4.6mb
 Z 20s 0.60um 5.1MszX
 N 10s 0.27um

GUMO 22.00 168 eP 49 51.00 2.0
 PJG 22.00 168 eP 49 50.60 1.6
 GUA 22.06 168 eP 49 50.70 1.1
 1.0s 104.00nm 5.2mb

HHC 23.28 292 eP 49 59.90 -1.6
 Z 15s 1.20um 4.5MszX
 N 14s 0.50um
 E 14s 0.60um

8TO 24.43 292 eP 50 15.00 2.3
 N 14s 0.70um
 E 14s 0.70um
 eSS 54 46.50

XAN 25.83 276 P 50 25.00 -0.9
 N 15s 1.00um
 E 14s 0.80um

LZH 29.56 282 Pd 51 00.00 0.2
 2.5s 58.00nm 4.8mb
 Z 18s 1.30um 4.6Msz
 N 15s 1.00um

E 15s 0.80um
 PP 51 07.50
 SP 51 18.00
 eSS 56 08.00

GYA 30.12 262 P 51 03.00 -1.8
 CD2 30.86 272 P 51 09.80 -1.4
 GTA 32.30 290 eP 51 23.40 -0.4
 0.6s 6.00nm 4.6mb
 Z 20s 0.90um 4.5Msz

CHG 40.05 257 eP 52 29.30 -0.3
 WMO 40.89 298 P 52 37.00 0.7
 Z 12s 0.40um 4.5MszX
 S 58 46.00

GUN 46.49 277 P 53 22.20 0.1
 PKI 47.01 277 P 53 26.00 -0.2
 0.6s 11.00nm 5.0mb
 KKN 47.03 277 P 53 26.20 0.0
 0.8s 21.00nm 5.1mb

DMN 47.24 277 P 53 28.20 0.3
 GKN 47.47 277 P 53 29.60 0.0
 0.8s 34.00nm 5.4mb
 PMR 50.52 36 P 53 49.70 -2.7
 1.0s 15.00nm 5.0mb

FBA 51.02 31 P 53 56.40 0.2
 0.7s 11.63nm 5.0mb
 NDI 53.17 282 iP 54 12.40 -0.4
 WB5 55.17 187 eP 54 26.20 -1.2

WRA 55.24 187 Pc 54 27.00 -0.9
 0.6s 18.80nm 5.3mb
 OIS 55.56 181 iPc 54 29.20 -0.9
 INK 56.31 26 eP 54 35.00 -0.1

MBC 58.42 16 eP 54 43.00 -6.9X
 1.0s 8.00nm 4.8mb
 ASPA 58.97 187 iPd 54 53.30 -0.9
 0.5s 17.00nm 5.4mb

Z 22s 0.23um 4.3MszX
 LR 18 13.00
 MBL 59.43 202 iPd 54 56.30 -1.2
 0.4s 10.00nm 5.3mb

GBA 60.23 266 Pd 55 01.20 -2.0
 0.6s 6.80nm 5.0mb
 NANU 62.18 206 eP 55 16.00 -0.1
 WARB 62.51 194 eP 55 18.00 -0.3

MAIO 63.64 297 eP 55 07.00 -18.9X
 KEV 64.76 339 eP 55 35.00 2.5
 SOD 66.23 337 iP 55 41.60 -0.4
 FORR 66.81 191 eP 55 44.30 -1.7

0.4s 32.00nm 5.7mb
 STK 66.84 179 eP 55 45.00 -1.2
 1.8s 8.00nm 4.5mb

COOL 68.27 198 eP 55 55.00 -0.3
 SUF 69.14 333 eP 56 00.00 -0.3

BAL 69.24 202 eP 56 00.70 -0.5
 KLB 69.85 200 eP 56 04.50 -0.4
 NUR 71.07 332 iP 56 12.00 0.0
 0.6s 14.30nm 5.1mb
 LBFM 72.81 51 P 56 23.70 0.7
 SES 74.03 39 eP 56 30.00 0.2
 HFS 75.31 335 eP 56 37.40 0.5
 0.4s 3.40nm 4.7mb
 Z 18s 0.31um 4.7Msz

LR 29 38.00
 CMB 75.58 54 P 56 40.00 1.1
 1.2s 16.20nm 4.9mb

FFC 75.62 32 eP 56 39.00 0.3
 0.9s 21.00nm 5.1mb
 NAO 75.73 337 P 56 38.70 -0.6
 0.7s 4.30nm 4.5mb

LRM 75.98 44 ePd 56 42.30 1.0
 KVN 76.49 52 P 56 44.70 0.5
 DAU 79.95 47 P 57 04.00 0.7
 KRA 80.04 326 eP 57 03.00 -0.1
 e 57 17.60

PEC 80.08 56 eP 57 05.00 1.3
 MSU 80.55 49 P 57 06.50 0.1
 KSP 81.12 328 eP 57 09.50 0.7
 BRG 82.10 329 e(P) 57 27.00 13.1X
 CLL 82.16 330 eP 57 14.00 -0.2
 e 57 34.00

PV09 82.43 48 eP 57 18.00 1.7
 KHC 83.56 328 eP 57 10.50 -11.1X
 e 57 22.80

GOL 83.88 45 P 57 23.70 0.1
 0.9s 3.31nm 4.4mb
 NOH 83.97 303 eP 57 24.70 0.7
 GRF 84.13 330 eP 57 24.80 0.4
 Z 18s 0.30um 4.7Msz

RMN 84.31 303 eP 57 26.50 0.8
 MBH 84.58 303 eP 57 27.80 0.8
 VAY 84.77 318 eP 57 37.50 9.8X
 SKO 84.93 319 eP 57 40.50 12.0X

Z 15s 0.47um 5.0MszX
 N 15s 0.34um
 E 19s 0.49um

LR 39 15.00
 OHR 85.88 319 eP 57 34.80 1.5
 ANMO 86.36 49 P 57 36.40 0.4
 1.1s 6.33nm 4.8mb

ALO 86.36 49 eP 57 36.00 0.0
 1.0s 4.25nm 4.6mb
 ZOBO 148.29 61 PKP 04 42.20 4.7X
 LPB 148.48 61 PKP 04 43.00 5.4X

CNCB 148.75 61 PKP 04 44.60 6.4X
 S.D. = 1.2 on 85 of 97 obs.

% AUG 23, 1990 03h 04m 17.14±1.75s
 26.889 S ±10.0km 26.937 E ±15.2km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 2.0 (PRE).

BFS 0.14 266 eP 04 15.00 -5.0X
 S 04 17.00
 PRY 0.48 95 eP 04 25.50 -1.3
 S 04 39.00

KSR 1.02 358 eP 04 36.00 -1.0
 S 04 47.00
 BPI 1.21 54 eP 04 41.00 0.7
 S 04 58.00

SEK 1.55 157 eP 04 46.00 0.4
 S 05 05.50
 SLR 1.67 47 eP 04 48.50 1.2
 S.D. = 1.6 on 5 of 6 obs.

AUG 23, 1990 05h 42m 19.87±0.23s
 46.186 N ±2.1km 7.417 E ±2.8km
 DEPTH = 10.0km (geophysicist)
 SWITZERLAND (544)
 ML 2.8 (LDG). MO 2.7 (STR).

DIX 0.11 182 iPc 42 22.90 0.0
 MMK 0.40 109 iPd 42 27.40 -0.8
 ORX 0.68 144 P 42 32.70 -0.7
 S 42 42.36

ORO 0.69 145 P 42 32.90 -0.6
 eSg 42 45.20
 LSD 0.75 194 P 42 34.00 -0.8
 S 42 44.41

LPL 0.82 216 Pg 42 35.50 -0.5

0.4s 5.00nm 4.1mb
 TRT 19.00 264 eP 53 29.00 2.4
 KKM 19.63 308 ePd 50 22.30 0.5
 CTA 19.00 136 iPc 50 24.00 0.5
 0.9s 82.35nm 5.0mb
 WARB 20.52 193 eP 50 31.40 0.5
 0.3s 5.00nm 4.4mb
 NANU 22.60 222 iPd 50 53.20 1.4
 OLP 23.59 151 eP 51 03.00 1.6
 51 10.00
 FORR 24.82 187 eP 51 13.80 0.5
 0.4s 17.00nm 5.0mb
 STK 27.24 161 eP 51 37.50 1.8
 1.8s 57.00nm 4.9mb
 MRWA 27.34 211 eP 51 38.00 1.3
 eS 56 47.00
 CHG 40.71 308 eP 53 34.00 1.8
 MAT 42.88 8 eP 53 49.00 -0.8
 BJI 48.12 344 eP 54 31.00 -0.4
 LZH 49.47 330 eP 54 50.00 7.9X
 sP 54 56.00
 GUN 55.68 310 P 55 28.00 -0.8
 PKI 55.87 309 P 55 29.40 -0.8
 KKN 56.08 309 P 55 30.60 -0.9
 DMN 56.12 309 P 55 31.20 -0.7
 GKN 56.68 309 P 55 35.00 -0.8
 0.8s 20.00nm 5.2mb
 CNCB 150.03 140 PKP 05 44.00 6.0X
 LPB 150.15 139 ePKP 05 44.00 6.0X
 ZOBO 150.33 139 PKP 05 45.00 6.6X
 S.D. = 1.4 on 24 of 29 obs.

% AUG 23, 1990 13h 41m 03.62±0.82s
 44.758 N ± 5.3km 7.193 E ± 10.8km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 1.7 (GEN).

PZZ 0.26 195 P 41 09.30 0.1
 S 41 13.23
 RRL 0.33 299 P 41 10.55 -0.1
 S 41 15.07
 RSP 0.40 7 P 41 11.83 0.1
 S 41 16.92
 STV 0.52 170 P 41 14.30 0.1
 ENR 0.56 163 P 41 14.80 -0.2
 S.D. = 0.2 on 5 of 5 obs.

AUG 23, 1990 14h 16m 59.37±0.66s
 26.372 S ± 6.0km 27.386 E ± 7.4km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 3.2 (PRE).

PRY 0.56 172 eP 17 11.00 0.4
 S 17 16.50
 BPI 0.61 71 eP 17 12.60 1.0
 S 17 19.50
 KSR 0.67 319 iPc 17 15.00 2.2
 BFS 0.75 226 iPc 17 14.90 0.4
 S 17 24.80
 SLR 1.03 52 eP 17 19.50 0.2
 S 17 31.90
 EVA 1.52 95 iPc 17 57.50 30.0X
 S 18 16.00
 SEK 1.96 174 eP 17 35.00 1.3
 S 17 58.00
 BFT 2.49 75 eP 17 41.50 0.1
 S 18 10.70
 BLF 2.93 201 eP 17 45.90 -1.7
 KIM 3.31 224 eP 17 52.00 -1.0
 BUL 6.30 11 iPn 18 33.50 -1.9
 iSn 19 42.00
 iSg 20 16.10
 KRI 9.72 13 iPn 19 22.00 -1.1
 iSn 21 08.00
 iSg 22 06.00
 CER 9.89 223 eP 19 19.50 -5.8X
 S.D. = 1.4 on 11 of 13 obs.

AUG 23, 1990 15h 29m 25.46±0.73s
 26.459 S ± 6.6km 27.468 E ± 7.3km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 2.2 (PRE).

PRY 0.47 179 eP 29 35.00 0.1
 S 29 42.50
 BPI 0.58 61 eP 29 36.00 -1.1
 BFS 0.75 234 eP 29 39.50 -1.1
 S 29 48.50
 KSR 0.78 319 eP 29 42.00 0.7
 SLR 1.03 46 eP 29 45.00 -0.4
 S 29 57.90
 EVA 1.44 92 eP 30 21.50 29.0X
 S 30 39.50
 SEK 1.86 176 eP 29 59.00 0.6
 S 30 22.00
 SWZ 2.05 249 eP 30 08.00 6.9X
 S 30 31.00
 BFT 2.44 72 eP 30 08.00 1.2
 S 30 36.50
 S.D. = 1.1 on 7 of 9 obs.

? AUG 23, 1990 15h 57m 23.03±5.11s
 30.198 N ± 67.6km 83.131 E ± 23.6km
 DEPTH = 33.0km (normal)
 TIBET (306)
 GKN 2.55 149 P 58 03.60 0.4
 KKN 3.05 141 P 58 10.70 0.4
 DMN 3.11 146 P 58 10.60 -0.5
 PKI 3.29 142 P 58 13.40 -0.4
 GUN 3.31 133 P 58 14.20 0.1
 NDI 5.37 255 eP 58 43.00 0.0
 0.6s 20.00nm 4.8mb X
 S.D. = 0.5 on 6 of 6 obs.

? AUG 23, 1990 16h 11m 09.91±1.71s
 2.009 S ± 11.7km 137.597 E ± 31.6km
 DEPTH = 33.0km (normal)
 4.5mb (2 obs.)
 WEST IRIAN (201)

MTN 12.53 210 eP 14 08.00 -0.7
 0.4s 73.00nm 6.1mb X
 eS 16 21.00
 KNA 16.19 212 iPd 14 56.80 0.1
 0.8s 78.00nm 4.9mb X
 e 17 47.00
 WB5 18.04 190 eP 15 15.90 -4.0X
 e 15 21.20
 eS 15 28.40
 OIS 18.54 174 eP 15 25.00 -1.0
 eS 18 31.00
 CTA 19.86 155 eP 15 57.00 15.7X
 ASPA 21.83 189 iPc 16 03.30 1.9
 0.4s 17.00nm 4.8mb
 Z 17s 0.62um 4.1mszX
 eS 19 57.40
 LR 26 54.20
 MBL 25.73 221 eP 16 43.00 3.8X
 0.5s 3.00nm 4.1mb
 BR5 29.13 151 eP 17 15.00 4.9X
 CHG 43.27 300 eP 19 11.40 1.0
 PKI 58.14 304 P 21 03.00 -0.5
 KKN 58.33 305 P 21 05.20 0.5
 GKN 58.93 305 P 21 07.60 -1.2
 S.D. = 1.3 on 8 of 12 obs.

? AUG 23, 1990 17h 10m 01.05±7.48s
 51.575 N ± 44.3km 16.276 E ± 45.7km
 DEPTH = 10.0km (geophysicist)
 POLAND (548)
 ML 3.5 (VKA), 3.4 (GRF).

KSP 0.73 179 iPd 10 15.70 0.2
 0.3s 48.00nm
 iS 10 25.00
 eLR 10 30.00
 BRG 1.63 245 iPc 10 31.50 1.7
 iSg 10 51.90
 PRU 1.93 215 ePn 10 34.00 -0.3
 ePg 10 36.00
 Sn 10 52.50
 eSg 10 59.50
 Lg 11 49.00
 CLL 2.07 264 iPn 10 35.70 -0.5
 ePg 10 39.00
 eSg 11 05.50
 KHC 3.00 216 Pn 10 49.10 -0.4
 Pg 10 55.50
 Sg 11 36.30

HOF 3.06 247 ePn 10 50.00 -0.3
 MOX 3.08 254 ePg 11 00.00 9.4X
 iSg 11 39.00
 WET 3.26 223 ePn 10 53.00 -0.3
 VKA 3.31 180 iPgC 11 03.30 9.3X
 i 11 39.70
 iSg 11 45.30
 GRF 3.73 242 e(Pn) 10 59.60 -0.3
 ePg 11 11.50
 eSg 11 58.20
 S.D. = 0.9 on 8 of 10 obs.

* AUG 23, 1990 17h 25m 16.44±2.25s
 19.096 N ± 27.1km 65.095 W ± 5.9km
 DEPTH = 33.0km (normal)
 PUERTO RICO REGION (90)

LPR 1.07 223 iP 25 35.10 -0.2
 CSB 1.29 232 iP 25 38.00 -0.3
 CPD 1.31 217 iP 25 38.70 0.1
 SJG 1.40 226 iP 25 40.00 0.1
 PORP 1.79 235 iP 25 45.50 -0.1
 LRS 1.84 245 iP 25 46.00 0.5
 MCP 2.03 251 iP 25 48.80 -0.2
 MGP 2.18 241 iP 25 51.00 -0.1
 NEV 3.09 129 eP 26 03.20 -0.9
 MGH 3.62 130 eP 26 12.50 0.9
 S 26 56.50
 S.D. = 0.5 on 10 of 10 obs.

? AUG 23, 1990 18h 04m 43.85±1.12s
 17.338 S ± 59.1km 173.487 W ± 37.8km
 DEPTH = 33.0km (normal)
 5.1mb (3 obs.)
 TONGA ISLANDS (173)

STK 43.03 242 iPd 12 43.00 0.8
 1.0s 10.00nm 4.5mb
 WB5 49.33 258 eP 13 31.00 -1.2
 ASPA 49.46 253 iPc 13 32.60 -0.6
 0.9s 39.00nm 5.4mb
 FORR 54.45 244 eP 14 10.50 0.0
 WARB 55.89 250 eP 14 20.90 -0.2
 NANU 66.38 253 iPd 15 32.80 0.7
 0.4s 9.00nm 5.2mb
 CHG 93.24 289 eP 17 58.10 1.3
 WTS 145.42 360 ePKP 24 18.50 -1.4
 0.8s 7.00nm
 KRA 145.62 345 ePKP 24 19.80 -0.5
 KSP 145.67 349 iPKPd 24 20.00 -0.4
 CLL 145.71 353 iPKP 24 19.20 -1.2
 1.3s 15.00nm
 BRG 146.02 352 iPKP 24 20.40 -0.6
 1.0s 13.00nm
 MOX 146.52 354 ePKP 24 22.50 0.7
 1.0s 19.00nm
 ENN 146.65 1 ePKP 24 23.00 1.1
 0.8s 9.00nm
 PRU 146.79 351 PKP 24 23.40 1.2
 e 24 36.50
 MEM 146.81 1 PKP 24 22.60 0.4
 DOU 147.29 2 PKP 24 24.90 1.9X
 GRF 147.50 354 ePKP 24 26.60 3.2X
 ABH 147.53 359 ePKP 24 25.52 2.1X
 KHC 147.77 351 PKPd 24 27.00 3.1X
 FLN 148.14 9 ePKP 24 26.40 2.0X
 0.8s 9.40nm
 LDF 148.36 8 ePKP 24 27.20 2.4X
 0.8s 8.05nm
 GRR 148.45 9 ePKP 24 27.40 2.5X
 0.9s 16.40nm
 LPF 148.77 10 ePKP 24 28.30 2.9X
 0.8s 14.80nm
 CDF 149.00 359 ePKP 24 29.70 3.7X
 0.8s 8.05nm
 HAU 149.41 0 ePKP 24 30.50 4.0X
 1.0s 10.00nm
 LOR 150.07 4 ePKP 24 31.90 4.4X
 0.8s 6.05nm
 SSF 150.26 4 ePKP 24 32.70 4.9X
 1.0s 11.00nm
 LBF 150.36 4 ePKP 24 32.80 4.8X
 1.0s 9.00nm
 AVF 150.51 4 ePKP 24 32.90 4.8X
 1.1s 7.35nm
 SMF 150.69 4 ePKP 24 33.50 5.1X
 BGF 150.70 5 ePKP 24 33.40 4.9X

23d 18h

LSF 150.07 7 ePKP 24 33.70 5.0X
0.0s 10.75nm
TCF 150.91 6 ePKP 24 34.00 5.2X
1.0s 6.00nm
MAF 151.01 6 ePKP 24 34.60 5.7X
0.9s 6.55nm
LPL 151.90 360 ePKP 24 37.50 6.9X
0.9s 4.90nm
LPG 151.92 360 ePKP 24 37.70 7.0X
0.9s 4.90nm
LFF 152.06 9 ePKP 24 36.60 6.1X
0.9s 9.85nm
S.D. = 1.0 on 16 of 38 obs.

? AUG 23, 1990 10h 12m 01.13±1.36s
51.752 N ±36.4km 30.158 W ±14.5km
DEPTH = 10.0km (geophysicist)
4.4mb (6 obs.) 3.1Msz (1 obs.)
NORTH ATLANTIC RIDGE (403)

EKA 16.40 67 P 15 55.00 2.4
0.9s 8.80nm 3.9mb
SCH 21.95 293 eP 16 56.00 -0.3
AVF 22.29 90 eP 16 59.70 -0.1
1.0s 14.00nm 4.4mb
LOR 22.41 88 eP 17 00.60 -0.4
1.4s 26.15nm 4.5mb
Z 19s 0.00um 3.1Msz
LBF 22.60 89 eP 17 01.10 -1.8
1.2s 19.35nm 4.5mb
SMF 22.66 90 eP 17 01.70 -1.8
1.3s 18.05nm 4.4mb
BSF 24.00 85 eP 17 15.90 -0.7
MOX 25.95 76 eP 17 36.00 1.0
CLL 26.57 74 iPc 17 40.40 -0.3
e 17 47.00
BRG 27.27 74 e(P) 17 46.60 -0.6
BCAO 62.01 122 iPd 22 26.50 2.6
1.0s 8.00nm 4.9mb
i 22 31.10
S.D. = 1.6 on 11 of 11 obs.

? AUG 23, 1990 18h 12m 16.30±6.98s
35.767 N ±39.0km 22.868 E ±54.5km
DEPTH = 10.0km (geophysicist)
MEDITERRANEAN SEA (400)
ML 3.4 (ATH).

VLI 0.95 3 ePg 12 33.70 -0.7
VAM 1.14 108 ePg 12 37.60 -0.1
eSg 12 51.40
ITM 1.60 332 ePb 12 50.00 5.3X
NPS 2.29 102 ePb 12 57.50 2.7X
ATH 2.30 17 ePn 12 55.80 0.9
APE 2.51 58 ePn 12 57.70 -0.1
EVR 3.26 345 ePg 13 18.60 10.1X
SMG 3.73 58 ePg 13 22.20 7.0X
S.D. = 1.2 on 4 of 8 obs.

? AUG 23, 1990 19h 09m 30.17±5.02s
33.568 S ±10.3km 71.970 W ±42.8km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)

LCCH 0.35 75 iPc 09 38.10 -0.4
iS 09 42.20
LNV 0.61 130 iPd 09 42.50 0.3
iS 09 49.50
TACH 0.07 96 eP 09 45.50 -0.5
iS 09 54.00
ROCH 1.00 54 iPd 09 47.50 -0.6
iS 09 57.80
SAN 1.10 84 eP 09 49.70 0.4
iS 10 01.50
CHCH 1.16 109 iPc 09 49.80 -0.3
PCH 1.22 93 iPd 09 51.00 0.0
iS 10 04.50
FCH 1.42 81 iPd 09 55.00 0.7
iS 10 11.00
JACH 1.45 53 iPd 09 55.00 0.5
iS 10 12.00
MDZ 2.70 76 eP 10 23.70 11.4X
e(S) 10 54.20
S.D. = 0.6 on 9 of 10 obs.

& AUG 23, 1990 19h 11m 13.24s

61.978 N 149.318 W
DEPTH = 44.4km
4.5mb (7 obs.) 4.4Msz (1 obs.)
SOUTHERN ALASKA (2)
<AGS-P>. Felt (111) at Wosillo.

GHO 0.28 138 iP 11 21.32 -0.5
PLRM 0.40 167 eP 11 22.11 -0.8
eS 11 29.88
PMR 0.40 167 iPd 11 22.10 -0.8
PWA 0.42 219 iP 11 23.07 -0.2
SML 0.50 110 iP 11 23.29 -0.9
CUT 0.62 314 iP 11 24.94 -0.8
PMS 0.75 189 iP 11 26.89 -0.6
SUA 0.85 233 iP 11 28.84 -0.3
eS 11 41.86
SCM 0.95 98 eP 11 29.64 -0.8
HUR 1.01 352 iP 11 30.58 -0.7
SKT 1.04 271 iP 11 30.93 -0.8
CGLM 1.45 244 eP 11 37.57 0.1
NCG 1.47 248 eP 11 37.45 -0.3
TOA 1.49 84 iPd 11 38.10 0.1
CRP 1.53 243 iP 11 39.24 0.5
SPU 1.53 240 iP 11 38.86 0.2
eS 11 58.98
SLKM 1.54 197 iP 11 38.32 -0.4
NKA 1.55 218 eP 11 40.86 2.1
VZW 1.61 124 iP 11 39.23 -0.5
eS 12 01.42
BGL 1.63 245 iP 11 40.58 0.5
CKL 1.64 243 iP 11 40.49 0.2
VLZ 1.66 119 iP 11 39.57 -0.8
eS 12 01.52
KLU 1.69 105 iP 11 40.31 -0.5
KTH 1.74 336 iP 11 41.07 -0.6
MCK 1.77 6 iP 11 41.45 -0.5
eS 12 06.07
SDG 1.05 71 eP 11 46.34 3.2
SEW 1.88 182 eP 11 42.34 -1.1
RDT 2.05 228 eP 11 45.72 -0.3
eS 12 11.86
HIN 2.09 138 eP 11 46.06 -0.5
eS 12 14.28
NNL 2.17 207 iP 11 49.44 1.9
CVA 2.24 128 eP 11 48.20 -0.4
RED 2.29 228 eP 11 49.17 -0.2
iS 12 17.06
BRLK 2.35 200 eP 11 49.50 -0.7
DDM 2.41 40 eP 11 51.86 0.7
eS 12 22.90
WRH 2.56 12 iP 11 51.82 -1.4
HOM 2.59 207 eP 11 54.90 1.3
eS 12 27.23
CNPM 2.63 202 eP 11 53.29 -1.0
HDA 2.66 23 eP 11 53.40 -1.2
GLB 2.68 99 iP 11 53.97 -0.9
RAGM 2.76 123 eP 11 55.16 -0.9
CCB 2.76 14 iP 11 54.40 -1.7
XLV 2.79 206 eP 11 56.58 0.1
DOT 2.94 53 eP 11 58.20 -0.4
MID 2.95 149 eP 11 59.02 0.4
HMT 2.95 122 eP 11 57.56 -1.2
FBA 3.01 12 iPc 11 58.00 -1.6
SVW 3.14 257 iPd 12 00.10 -1.4
GLM 3.14 15 eP 11 59.80 -1.7
eS 12 35.82
KAIM 3.15 129 eP 12 00.03 -1.6
TMW 3.22 62 eP 12 03.40 0.9
PDB 3.24 229 eP 12 01.63 -1.3
TTA 3.25 290 iPd 12 01.50 -1.6
AUE 3.30 219 eP 12 04.25 0.6
AUI 3.34 219 eP 12 05.45 1.2
TGL 3.36 109 eP 12 02.89 -1.7
BALM 3.47 103 iP 12 04.49 -1.8
WAX 3.48 113 eP 12 04.92 -1.4
SNH 3.63 117 eP 12 05.02 -0.3
SHU 3.68 206 eP 12 08.37 -0.7
CDD 3.73 217 eP 12 09.46 -0.4
MCNL 3.74 224 eP 12 09.16 -0.7
WRG 4.05 116 eP 12 13.01 -1.3
IMA 4.53 337 iPd 12 17.10 -4.1
PCA 4.79 109 eP 12 23.02 -1.8
FYU 4.93 19 eP 12 24.98 -1.7
DWY 4.96 61 P 12 27.00 -0.1
BCPM 5.14 109 eP 12 27.10 -2.5
PNL 5.38 111 eP 12 30.19 -2.9
HQN 5.72 112 eP 12 34.84 -3.0

HYT 5.79 96 P 12 37.00 -2.0
ANM 7.68 297 eP 12 58.60 -6.7
SIT 8.65 119 iPd 13 15.00 -3.6
INK 9.17 39 eP 13 24.00 -1.8
0.4s 4.00nm 4.9mb
ADK 17.88 248 P 15 20.00 0.0
KVN 29.82 126 P 17 15.00 -3.2
LOR 69.00 19 eP 22 11.50 -4.1
0.5s 2.20nm 4.4mb
Z 20s 0.22um 4.4Msz
SSF 69.14 20 eP 22 12.80 -3.6
0.7s 3.30nm 4.4mb
AVF 69.38 20 eP 22 13.70 -4.2
0.6s 1.80nm 4.2mb
LSF 69.61 21 eP 22 15.20 -4.1
LFF 70.74 22 eP 22 22.60 -3.5
0.6s 6.30nm 4.8mb
LPL 71.14 18 eP 22 25.90 -3.0
0.7s 2.75nm 4.3mb
SBF 72.86 17 eP 22 35.30 -3.6
0.6s 6.30nm 4.7mb
KKN 80.42 313 P 23 18.20 -3.4
GKN 80.45 314 P 23 19.00 -2.6
PKI 80.58 313 P 23 19.60 -3.0
DMN 80.65 313 P 23 20.00 -2.8
86 obs. associated

? AUG 23, 1990 19h 12m 49.87±1.17s
23.288 S ±22.3km 114.829 W ±21.1km
DEPTH = 10.0km (geophysicist)
4.8mb (6 obs.) 4.5Msz (1 obs.)
EASTER ISLAND REGION (685)

LPB 44.30 90 eP 21 00.00 -2.4
LR 32 12.00
CNCB 44.33 91 P 21 06.80 4.0X
ZOBO 44.35 90 P 21 06.00 3.0X
1.1s 18.85nm 4.9mb
Z 20s 0.58um 4.5Msz
S 27 52.00
LR 32 18.00
CCH 45.86 92 eP 21 16.00 1.3
SIV 50.91 92 Pc 21 55.00 1.3
ALO 58.45 8 eP 22 48.00 -0.5
1.3s 6.25nm 4.5mb
ANMO 58.46 8 P 22 49.00 0.5
FRI 60.13 355 eP 23 00.50 0.7
MHC 60.64 354 eP 23 05.30 1.8
CMB 61.22 355 eP 23 07.80 0.6
BRK 61.23 353 eP 23 06.70 -0.6
BKS 61.24 353 e(P) 23 04.90 -2.4
e(LO) 38 16.40
eLR 42 15.20
KVN 62.09 357 P 23 13.00 -0.3
ORV 62.82 354 eP 23 19.40 1.5
DAU 63.46 3 P 23 22.00 -0.5
WDC 63.94 353 eP 23 25.30 0.0
LBFM 64.64 354 P 23 30.00 -0.1
BW06 65.91 4 P 23 37.00 -1.3
NEW 71.25 358 P 24 12.00 0.9
1.0s 10.00nm 4.9mb
PNT 72.40 357 eP 24 25.00 7.1X
0.8s 8.00nm 4.9mb
YKA 85.48 0 eP 25 34.40 5.8X
0.9s 4.90nm 4.7mb
PMR 88.97 344 P 25 45.00 -0.6
0.8s 7.76nm 5.0mb
LZH 144.29 300 ePKP 32 24.50 -3.8X
2.5s 48.00nm
Z 25s 0.50um 5.2MszX
pP 32 37.50
NNT 145.53 258 ePKP 32 26.00 -4.7X
KMI 145.76 281 PKPd 32 30.00 -1.2
2.5s 0.11nm
CHG 148.21 268 ePKP 32 36.00 1.0
1.2s 19.53nm
S.D. = 1.3 on 20 of 26 obs.

? AUG 23, 1990 19h 15m 16.23±7.00s
34.073 S ±27.1km 72.487 W ±49.0km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)

LNV 0.90 83 iPd 15 33.50 0.0
iS 15 44.30
LCCH 0.97 52 iPc 15 34.50 -0.1
iS 15 46.20

24d 00h

GRR 0.9s 16.40nm 33 35.40 0.2
 1.4s 43.55nm
 SOP 145.96 347 ePKP 33 39.00 3.7X
 LPF 146.26 9 ePKP 33 36.60 0.9
 0.9s 24.55nm
 CDF 146.37 358 ePKP 33 37.20 1.1
 1.0s 20.00nm
 HAU 146.79 360 ePKP 33 38.40 1.7
 1.0s 24.00nm
 BSF 146.96 359 ePKP 33 38.30 1.3
 1.0s 20.00nm
 SOTA 147.29 353 ePKP 33 39.00 1.4
 1.5s 33.70nm
 id 33 40.00
 LOR 147.48 3 ePKP 33 40.00 2.2X
 1.2s 31.25nm
 SSF 147.67 3 ePKP 33 40.60 2.5X
 0.9s 24.55nm
 FVI 147.70 351 PKP 33 40.00 1.9
 LBF 147.77 3 ePKP 33 40.80 2.5X
 0.9s 14.75nm
 MFF 147.78 8 ePKP 33 40.80 2.6X
 0.8s 8.05nm
 PTJ 147.79 347 ePKP 33 40.20 1.8
 AVF 147.93 3 ePKP 33 40.90 2.4X
 1.0s 16.00nm
 SMF 148.10 3 ePKP 33 41.60 2.8X
 1.2s 44.65nm
 BGF 148.13 4 ePKP 33 41.80 3.0X
 0.6s 10.35nm
 JVI 148.20 308 ePKP 33 44.50 5.2X
 VBY 148.31 348 ePKP 33 45.40 6.3X
 LSF 148.32 6 ePKP 33 42.00 2.9X
 1.0s 46.00nm
 VVI 148.35 351 PKP 33 44.50 5.3X
 TCF 148.35 5 ePKP 33 42.20 3.0X
 1.0s 17.00nm
 MAF 148.44 5 ePKP 33 42.90 3.6X
 1.1s 35.40nm
 MKT 148.77 306 ePKP 33 46.50 6.1X
 MDI 148.86 355 PKP 33 43.00 3.0X
 SAL 148.95 354 PKP 33 40.00 -0.1
 ORO 149.13 357 PKP 33 45.00 4.4X
 RJF 149.26 6 ePKP 33 44.60 3.9X
 1.4s 34.85nm
 LPL 149.28 359 ePKP 33 45.90 4.9X
 1.0s 15.00nm
 LPG 149.29 359 ePKP 33 45.80 4.7X
 0.9s 14.75nm
 MBH 149.46 304 ePKP 33 47.80 6.4X
 LFF 149.53 7 ePKP 33 45.40 4.4X
 1.0s 28.00nm
 CAF 149.69 6 ePKP 33 45.80 4.5X
 1.2s 20.85nm
 SKO 149.72 337 iPKP 33 46.60 5.2X
 BNI 149.74 359 PKP 33 46.00 4.4X
 LPO 149.84 7 ePKP 33 46.30 4.8X
 1.4s 34.85nm
 DOI 150.28 358 PKP 33 45.50 3.2X
 BDI 150.47 353 PKP 33 47.50 4.9X
 PGD 150.51 352 PKP 33 44.00 1.2
 OHR 150.70 337 ePKP 33 48.80 5.8X
 SBF 150.91 358 ePKP 33 50.20 7.0X
 1.2s 20.85nm
 FRF 151.23 359 ePKP 33 49.70 6.1X
 LRG 151.34 359 ePKP 33 49.80 6.0X
 LMR 151.46 359 ePKP 33 50.10 6.1X
 TOL 153.41 17 ePKP 33 35.00 -11.9X

S.D. = 1.1 on 51 of 87 obs.

? AUG 24, 1990 00h 43m 44.76 ± 2.00s
 51.541 N ± 15.5km 29.337 W ± 22.4km
 DEPTH = 10.0km (geophysicist)
 4.4mb (28 obs.) 3.6Msz (3 obs.)
 NORTH ATLANTIC RIDGE (403)

DLE 14.01 74 eP 47 05.90 0.6
 ECP 14.20 78 eP 47 16.30 8.5X
 EKA 16.01 66 P 47 35.00 3.6X
 1.5s 64.50nm 4.5mb
 LPF 18.55 90 eP 48 03.10 -0.1
 0.9s 13.10nm 4.1mb
 LDF 18.93 87 eP 48 07.90 0.1
 MFF 19.68 93 eP 48 15.90 -0.8
 0.7s 6.60nm 4.0mb
 LSF 20.88 92 eP 48 28.10 -1.1

LFF 0.8s 12.10nm 4.3mb
 20.99 96 eP 48 30.10 -0.3
 1.1s 14.65nm 4.3mb
 TOL 21.04 114 eP 48 35.00 4.0X
 TCF 21.28 92 eP 48 32.40 -1.0
 0.8s 11.40nm 4.3mb
 RJF 21.30 95 eP 48 33.00 -0.5
 0.9s 13.10nm 4.3mb
 Z 21s 0.32um 3.7Msz
 DOU 21.38 80 P 48 34.50 0.2
 LPO 21.39 97 eP 48 34.40 -0.1
 1.0s 12.00nm 4.2mb
 MAF 21.54 92 eP 48 35.30 -0.6
 1.2s 17.85nm 4.3mb
 BGF 21.57 91 eP 48 35.10 -1.1
 0.7s 14.90nm 4.5mb
 SSF 21.77 89 eP 48 39.20 1.0
 1.1s 20.75nm 4.5mb
 AVF 21.78 90 eP 48 39.10 0.7
 1.1s 26.85nm 4.6mb
 CAF 21.82 95 eP 48 38.40 -0.4
 1.3s 18.05nm 4.3mb
 LOR 21.90 88 eP 48 40.10 0.5
 1.3s 36.10nm 4.6mb
 WIT 21.98 72 eP 48 48.00 7.8X
 ENN 22.01 78 eP 48 42.00 1.5
 1.0s 14.00nm 4.3mb
 LBF 22.09 89 eP 48 40.50 -1.0
 1.0s 22.00nm 4.6mb
 MEM 22.10 78 P 48 43.60 2.2
 SMF 22.15 90 eP 48 41.10 -0.9
 1.2s 29.75nm 4.6mb
 WTS 22.24 75 eP 48 48.50 5.7X
 1.0s 17.00nm 4.5mb
 HAU 23.17 85 eP 48 51.50 -0.6
 0.7s 6.60nm 4.3mb
 Z 20s 0.15um 3.4Msz
 BSF 23.51 85 eP 48 54.90 -0.6
 0.7s 7.70nm 4.4mb
 NAO 23.84 51 P 48 58.00 -0.5
 1.3s 9.30nm 4.2mb
 LPL 24.45 90 eP 49 05.60 0.8
 1.2s 14.90nm 4.5mb
 LPG 24.47 90 eP 49 06.20 1.1
 1.2s 11.90nm 4.4mb
 BNI 24.63 91 P 49 10.00 3.5X
 IFR 25.16 126 iP 49 18.50 6.8X
 ORO 25.18 89 P 49 17.50 5.8X
 HFS 25.23 53 eP 49 10.10 -1.7
 0.9s 5.90nm 4.3mb
 DOI 25.25 92 P 49 15.50 3.2X
 MOX 25.50 76 eP 49 15.00 0.5
 GRF 25.57 78 eP 49 16.10 0.9
 Z 21s 0.20um 3.6Msz
 CLL 26.14 74 iPc 49 20.40 0.0
 1.6s 26.00nm 4.7mb
 i 49 27.00
 MDI 26.19 87 P 49 34.00 13.1X
 SOTA 26.50 83 iPc 49 24.60 0.7
 1.0s 10.20nm 4.5mb
 i 49 29.80
 i 49 35.10
 BRG 26.84 74 eP 49 26.50 -0.3
 1.2s 17.00nm 4.6mb
 e 49 33.00
 KHC 27.21 78 eP 49 31.00 0.7
 BDI 27.57 90 P 49 40.50 6.9X
 KRA 30.71 73 eP 50 00.80 -0.9
 e 50 06.70
 SPC 31.23 74 eP 50 06.70 0.2
 BCAA 61.47 123 iPc 54 04.40 0.6
 0.7s 5.00nm 4.8mb
 WRA 145.96 28 PKP 03 31.00 5.6X
 0.5s 1.00nm

S.D. = 0.9 on 35 of 47 obs.

AUG 24, 1990 01h 01m 35.85 ± 0.34s
 46.412 N ± 3.3km 9.863 E ± 3.3km
 DEPTH = 6.4 ± 3.1 km
 SWITZERLAND (544)
 ML 2.7 (LDG), 2.6 (VIE).

VDL 0.28 285 iPc 01 41.30 -0.4
 OSS 0.34 35 iPc 01 42.00 -0.7
 MDI 0.64 190 P 01 48.30 -0.4
 eSg 01 56.40
 LLS 0.75 308 iPd 01 49.70 -1.3

TMA 0.75 246 iPd 01 49.80 -1.2
 SAX 0.91 337 ePc 01 53.00 -0.8
 OGA 0.92 60 iPg 01 52.50 -1.4
 SAL 0.93 150 P 01 53.90 0.0
 eSg 02 06.60
 SOTA 1.23 48 iPg 01 58.20 -0.9
 i 02 09.00
 i(Sg) 02 15.00
 i 02 17.70
 MMK 1.37 255 ePc 02 00.30 -1.3
 ZLA 1.47 317 eP 02 04.00 1.1
 WATA 1.49 51 iPnc 02 03.20 -0.1
 iPg 02 05.60
 iSg 02 27.60
 P 02 03.60 -0.2
 eSg 02 23.60
 SLE 1.65 326 iP 02 06.00 0.6
 FEL 1.93 320 ePn 02 09.84 0.2
 FVI 2.02 84 P 02 12.20 1.4
 LPG 2.36 248 Pg 02 21.20 5.3X
 Sg 02 50.80
 LPL 2.36 249 Pg 02 21.10 5.2X
 Sg 02 50.50
 BSF 2.53 305 Pn 02 19.80 1.6
 Sn 02 48.40
 CDF 2.66 320 Pn 02 19.90 -0.2
 Sn 02 52.40
 Sg 03 03.40
 VOY 2.82 96 ePn 02 28.10 5.7X
 eSn 02 59.10
 HAU 2.88 305 Pn 02 28.30 5.2X
 Sn 02 57.00
 SBF 3.07 215 Pn 02 26.40 0.6
 GRF 3.41 15 e(Pg) 02 41.30 10.8X
 e(Sn) 03 09.30
 eSg 03 24.40
 FRF 3.65 220 Pn 02 34.10 0.1
 KHC 3.70 41 Pg 02 34.70 0.0
 Sg 03 19.70
 LRG 3.86 221 Pn 02 37.30 0.3
 LBF 4.09 280 Pn 02 40.50 0.2
 Sn 03 25.10
 Sg 03 45.20
 SMF 4.16 275 Pn 02 41.90 0.6
 Sn 03 26.70
 Sg 03 47.90
 LOR 4.21 284 Pn 02 42.20 0.3
 Sn 03 28.00
 Sg 03 49.20
 SSF 4.42 281 Pn 02 45.20 0.3
 Sn 03 32.30
 Sg 03 56.10
 AVF 4.50 277 Pn 02 45.60 -0.5
 BGF 4.85 274 Pn 02 50.60 -0.4
 Sn 03 43.60
 TCF 5.30 271 Pn 02 57.30 -0.2
 S.D. = 0.8 on 29 of 34 obs.

* AUG 24, 1990 01h 36m 06.41 ± 0.83s
 45.734 N ± 9.8km 10.574 E ± 8.3km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.0 (VIE).

SAL 0.13 195 P 36 09.70 0.2
 eSg 36 14.00
 MDI 0.61 274 P 36 19.00 0.4
 eSg 36 28.90
 SOTA 1.55 16 iPg 36 34.40 0.2
 iSg 36 49.40
 i 36 53.60
 FVI 1.76 60 P 36 36.90 -0.2
 eSg 36 59.30
 ORO 1.82 268 P 36 37.50 -0.6
 eSg 37 00.50
 S.D. = 0.6 on 5 of 5 obs.

AUG 24, 1990 01h 50m 26.28 ± 0.44s
 6.150 N ± 7.2km 127.656 E ± 9.6km
 DEPTH = 56.1km (3 depth phases)
 4.9mb (6 obs.)
 PHILIPPINE ISLANDS REGION (248)

DAV 2.27 294 eP 51 02.00 0.0
 GUA 18.51 65 eP 54 40.00 -0.5
 WBS 26.70 166 eP 56 02.00 -0.2
 WRA 26.75 166 Pd 56 02.40 -0.3

ASPA 0.5s 10.10nm 4.7mb
30.26 169 iPd 56 33.80 -0.5
0.6s 13.00nm 4.8mb
eS 01 30.90
WARB 32.16 182 eP 56 51.20 0.3
BJI 35.29 345 eP 57 17.00 -0.7
FORR 36.79 179 eP 57 30.20 -0.3
0.4s 22.00nm 5.4mb
LZH 36.94 327 eP 57 32.50 0.6
1.6s 29.00nm 5.0mb
pP 57 47.50 58km
STK 40.09 161 iPd 57 59.00 1.0
1.1s 14.00nm 4.7mb
e 58 12.30 50km
MAIO 68.81 306 iPc 01 26.90 -0.2
INK 87.59 22 eP 03 11.00 1.8
pP 03 28.00 60km
NAO 97.30 334 P 03 53.40 -0.9
1.0s 4.00nm 4.9mb
ZOBO 161.56 124 ePKP 10 27.00 3.7X
e 12 24.00

S.D. = 0.8 on 13 of 14 obs.

% AUG 24, 1990 03h 19m 47.96±0.92s
28.150 S ± 8.3km 26.869 E ± 8.7km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.6 (PRE).

SEK 0.69 105 eP 20 02.00 0.2
S 20 12.50
BLF 1.13 212 eP 20 09.00 -0.6
BFS 1.25 357 eP 20 10.50 -1.2
S 20 18.40
SWZ 1.68 305 eP 20 19.50 1.3
S 20 38.00
SLR 2.72 28 eP 20 33.40 0.2
S.D. = 1.4 on 5 of 5 obs.

AUG 24, 1990 05h 12m 58.01±0.28s
43.921 N ± 2.6km 7.288 E ± 2.4km
DEPTH = 11.4 ± 2.5 km
NEAR SOUTH COAST OF KRC (379)
ML 2.9 (LDG), MD 2.5 (STR).

AURF 0.04 139 Pg 13 00.47 0.0
Sg 13 01.38
TOUF 0.10 343 Pg 13 00.86 -0.2
Sg 13 02.53
MVIF 0.10 256 Pg 13 00.74 -0.3
Sg 13 02.33
SBF 0.12 118 Pg 13 01.00 0.5
AUTN 0.13 53 Pg 13 01.78 0.3
Sg 13 04.28
SAOF 0.20 71 Pg 13 03.07 0.5
Sg 13 06.50
ENR 0.32 17 Pd 13 05.05 0.3
S 13 08.81
STV 0.32 5 Pd 13 04.98 0.1
S 13 08.71
CALN 0.33 240 Pg 13 05.15 0.1
Sg 13 09.89
IMI 0.43 91 Pc 13 07.38 0.4
S 13 13.63
ROB 0.56 48 Pc 13 09.79 0.4
S 13 17.11
DOI 0.58 357 P 13 09.50 -0.3
eSg 13 17.10
FRF 0.59 232 Pg 13 09.40 -0.4
Sg 13 17.00
PZZ 0.60 347 Pd 13 09.77 -0.3
S 13 16.97
FIN 0.72 66 Pc 13 12.45 0.3
S 13 22.04
LMR 0.81 224 Pg 13 13.70 0.0
Sg 13 24.10
LRG 0.82 236 Pg 13 13.80 0.1
Sg 13 24.60
CKI 0.87 54 P 13 15.20 0.5
eSg 13 26.60
TAVF 0.94 252 Pg 13 16.00 0.2
RRL 1.06 340 P 13 18.29 0.2
S 13 31.09
PCP 1.10 55 P 13 19.19 0.7
S 13 32.33
CDR 1.13 258 ePg 13 19.50 0.5
i 13 19.80

VILF 1.14 267 Pn 13 34.50
Sg 13 20.41 1.2
BNI 1.21 339 P 13 21.10 0.5
eSg 13 37.80
PUYF 1.21 252 Pn 13 20.93 0.4
Sg 13 37.26
RSP 1.23 359 P 13 19.16 -1.7
BERF 1.31 243 Pn 13 22.40 0.2
Sg 13 40.86
TREF 1.41 259 Pn 13 24.36 0.8
Sg 13 44.85
GELF 1.45 249 Pn 13 24.26 0.1
Pg 13 25.23
Sg 13 44.62
PRAF 1.54 266 Pn 13 25.68 0.3
LSD 1.54 357 P 13 25.27 -0.3
LPG 1.62 347 Pn 13 28.30 1.5
Pg 13 30.50
Sg 13 52.90
LPL 1.64 346 Pn 13 28.70 1.6
Pg 13 30.80
Sg 13 52.70
ORX 1.78 16 P 13 27.63 -1.3
PGF 1.86 137 Pn 13 28.50 -1.6
Sn 13 50.70
CAF 3.07 287 Pn 13 57.70 -1.1
Sn 14 42.00
Sg 15 01.00

S.D. = 0.7 on 36 of 36 obs.

* AUG 24, 1990 05h 29m 33.63±1.22s
9.385 S ± 14.6km 121.875 E ± 12.6km
DEPTH = 33.0km (normal)
3.8mb (2 obs.)
SAVU SEA (288)

KNA 9.23 134 eP 31 38.00 -9.6X
eS 33 24.00
MTN 9.71 112 iPc 31 54.20 0.0
eS 33 35.00
MBL 11.87 189 eP 32 25.50 1.8
eS 34 28.00
NANU 14.45 204 eP 32 56.00 -1.8
eS 35 21.00
WB5 15.96 132 eP 33 16.20 -1.2
eS 36 01.80
WRA 15.98 132 P 33 18.00 0.3
0.6s 0.90nm 3.1mb
ASPA 18.27 142 eP 33 49.20 2.7X
STK 28.90 144 iPc 35 32.40 0.6
0.5s 5.00nm 4.5mb
CHG 36.01 321 eP 36 34.00 0.1
S.D. = 1.5 on 7 of 9 obs.

* AUG 24, 1990 06h 22m 32.52±1.25s
11.239 S ± 16.9km 118.514 E ± 15.1km
DEPTH = 33.0km (normal)
3.9mb (3 obs.)
SOUTH OF SUMBAWA ISLAND (291)

TRT 6.78 301 ePd 24 12.20 -0.1
eS 25 20.50
MBL 9.95 173 iPc 24 53.90 -2.4X
0.3s 20.00nm 5.9mb X
eS 26 32.00
NANU 11.62 194 eP 25 17.00 -2.1X
0.3s 27.00nm 5.9mb X
eS 27 10.00
MEKA 15.29 180 eP 26 07.00 -0.7
eS 28 39.00
WARB 16.73 154 eP 26 25.20 -0.9
0.3s 7.00nm 4.3mb
eS 29 20.00
WB5 17.51 121 eP 26 34.70 -1.2
eS 29 36.60
WRA 17.52 122 Pd 26 39.50 3.5X
0.9s 3.80nm 3.5mb
MRWA 18.04 187 eP 26 51.50 9.1X
eS 29 53.00
ASPA 19.16 132 eP 26 58.00 1.8
1.1s 9.00nm 3.9mb
eS 30 18.10
BAL 19.35 185 eP 26 58.50 0.3
eS 30 14.00
COOL 19.70 173 eP 27 03.00 0.8
eS 30 23.00

MUN 20.75 186 eP 27 18.00 5.0X
eS 30 47.00
RKG 22.77 183 eP 27 51.00 17.8X
eS 31 47.00

S.D. = 1.3 on 7 of 13 obs.

& AUG 24, 1990 06h 56m 45.51s
59.293 N 152.717 W
DEPTH = 73.9km
SOUTHERN ALASKA (2)
<AGS-P>.

AUE 0.34 281 iP 56 57.20 -0.3
AUI 0.37 277 eP 56 57.18 -0.5
XLV 0.53 72 eP 56 58.17 -1.0
eS 57 08.12
CDD 0.60 233 eP 56 59.04 -0.8
eS 57 09.89
HOM 0.66 56 eP 56 59.94 -0.5
eS 57 10.32
SHU 0.69 164 eP 56 59.94 -0.8
eS 57 11.19
CNPM 0.79 72 iP 57 01.10 -0.9
eS 57 13.76
MCNL 0.84 263 eP 57 01.77 -0.8
PDB 0.90 304 iP 57 02.42 -0.8
iS 57 15.25
NNL 1.04 43 iP 57 05.34 0.3
BRLK 1.05 62 eP 57 04.92 -0.2
eS 57 18.34
RED 1.13 359 eP 57 05.37 -0.8
eS 57 20.72
RDT 1.29 7 iP 57 07.54 -0.8
eS 57 24.83
NKA 1.63 26 eP 57 14.11 1.3
SLKM 1.75 45 eP 57 13.88 -0.6
iS 57 35.56
SEW 1.85 62 eP 57 14.26 -1.4
CKL 1.92 5 iP 57 16.50 -0.3
SPU 1.92 10 eP 57 16.23 -0.6
BGL 1.98 5 eP 57 17.44 -0.3
CRP 2.00 8 eP 57 17.95 0.0
CGLM 2.05 10 eP 57 18.18 -0.4
NCG 2.14 7 eP 57 19.38 -0.4
SVW 2.33 323 e(P) 57 21.70 -0.7
SUA 2.39 23 eP 57 23.11 -0.2
PMS 2.51 37 eP 57 24.02 -0.9
PWA 2.75 29 eP 57 27.45 -0.7
SKT 2.76 12 eP 57 27.59 -0.8
PMR 2.91 36 e(P) 57 29.20 -1.2
SML 3.32 39 eP 57 34.54 -1.7
VZW 3.55 57 eP 57 37.19 -2.2
VLZ 3.68 57 eP 57 39.39 -1.7

31 obs. associated

% AUG 24, 1990 07h 03m 20.21±1.17s
42.452 N ± 8.4km 13.309 E ± 9.0km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

AQU 0.12 144 P 03 23.30 0.0
eSg 03 27.00
MNS 0.47 262 P 03 29.20 -0.6
eSg 03 37.00
AZI 0.47 168 P 03 29.30 -0.5
eSg 03 38.70
RMP 0.78 215 P 03 35.50 0.0
eSg 03 48.00
RDP 0.82 213 P 03 37.00 0.9
eSg 03 51.50
CRE 1.54 320 P 03 48.00 0.2
S.D. = 0.7 on 6 of 6 obs.

? AUG 24, 1990 07h 23m 57.35±4.13s
8.154 S ± 36.7km 129.292 E ± 36.1km
DEPTH = 166.5 ± 48.8 km
4.3mb (3 obs.)
TIMOR SEA (290)

MTN 5.00 159 iPc 25 11.80 0.0
eS 26 14.00
KNA 7.57 184 eP 25 46.00 0.0
eS 27 13.00
WB5 12.65 158 eP 26 52.00 -0.6
eS 29 12.60
WRA 12.70 158 Pd 26 53.90 0.6
0.3s 1.00nm 3.7mb

24d 07h

ASPA 16.05 165 eP 27 41.10 5.9X
0.4s 6.00nm 4.3mb
GUN 55.19 312 P 33 17.30 1.7
PKI 55.35 312 P 33 16.80 0.1
0.6s 10.00nm 4.8mb
KKN 55.56 312 P 33 17.80 -0.3
DMN 55.59 311 P 33 17.60 -0.8
GKN 56.16 312 P 33 21.70 -0.6
S.D. = 1.0 on 9 of 10 obs.

% AUG 24, 1990 09h 56m 15.18± 0.73s
26.858 S ± 6.2km 26.781 E ± 6.7km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.3 (PRE).

BFS 0.04 174 iPd 56 16.00 -0.6
S 56 16.50
PRY 0.62 97 eP 56 28.50 0.8
S 56 35.50
KSR 0.99 6 eP 56 34.00 -0.6
S 56 44.50
BPI 1.31 59 eP 56 40.50 0.5
S 56 58.00
SWZ 1.34 256 eP 56 41.30 0.9
SEK 1.64 153 eP 56 44.50 -0.4
S 57 03.50
SLR 1.75 51 iP 56 46.00 -0.5
S 57 10.00
EVA 2.08 81 eP 57 20.50 29.1X
S 57 47.00
S.D. = 0.9 on 7 of 8 obs.

% AUG 24, 1990 10h 16m 46.10s
37.630 N 119.095 W
DEPTH = 5.0km (geophysicist)
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.5 (BRK).

FRI 0.80 218 eP 17 00.70 -1.4
iS 17 11.40
CMB 1.10 292 eP 17 06.00 -1.2
iS 17 20.70
LLA 1.79 236 eP 17 18.30 0.4
PRI 1.95 221 eP 17 21.00 0.7
ARN 1.96 263 eP 17 20.70 0.3
MHC 2.05 263 eP 17 22.60 0.9
SAO 2.07 246 iP 17 22.50 0.6
PRS 2.24 235 eP 17 25.10 0.7
BCH 2.57 198 eP 17 28.60 -0.6
ORV 2.69 316 eP 17 34.00 3.1
MIN 3.34 325 eP 17 46.20 6.0
11 obs. associated

% AUG 24, 1990 10h 32m 28.31s
60.067 N 141.165 W
DEPTH = 0.1km
SOUTHEASTERN ALASKA (19)
<AGS-P>.

YAH 0.42 316 iP 32 36.90 0.3
PCA 0.46 86 eP 32 37.36 -0.1
eS 32 46.05
BCPM 0.78 98 iP 32 43.15 -0.7
eS 32 55.26
YKU 0.89 125 ePd 32 46.30 0.2
PNL 0.98 113 eP 32 46.52 -1.3
eS 33 02.63
TGL 1.08 311 eP 32 48.54 -1.0
iS 33 04.06
BALM 1.13 330 iP 32 48.84 -1.7
HON 1.31 117 eP 32 51.67 -1.8
eS 33 10.67
GLB 1.89 318 eP 33 01.20 -1.1
KLU 2.74 304 eP 33 13.48 -0.9
VLZ 2.76 295 eP 33 13.81 -0.8
VZV 2.84 293 eP 33 14.78 -1.1
TOA 3.18 312 iPd 33 20.40 -0.2
DWY 4.08 11 Pd 33 32.30 -1.1
PMR 4.19 295 ePd 33 40.10 5.3
SIT 4.30 132 eP 33 34.00 -2.4
FBA 5.74 331 iP 33 57.80 1.0
INK 8.91 19 eP 34 40.00 -1.2
0.3s 1.10nm 4.7mb
18 obs. associated

* AUG 24, 1990 10h 43m 35.79± 1.04s
21.117 S ± 7.4km 66.721 W ± 12.1km
DEPTH = 184.9 ± 13.4 km
4.4mb (5 obs.)

SOUTHERN BOLIVIA (125)

ANT 4.28 232 iPc 44 43.50 2.3
eS 45 30.20
CNCB 4.45 344 P 44 40.00 -4.0X
i 44 53.00
LPB 4.74 344 P 44 46.00 -1.6
1.0s 192.00nm
i 44 57.20
ZOBO 5.00 344 P 44 39.00 -12.2X
SIV 7.39 47 iPc 45 27.00 4.9X
RTLL 10.29 188 iPc 45 58.90 -1.1
RTCB 10.49 190 e(P) 46 02.50 -0.2
CFA 10.54 187 ePc 46 03.20 0.0
FCH 12.57 194 eP 46 31.00 1.3
SAN 12.78 195 eP 46 31.50 -0.5
PCH 12.90 194 eP 46 34.30 0.7
TACH 13.03 196 eP 46 34.00 -1.2
CHCH 13.23 194 eP 46 37.50 -0.3
LNV 13.45 197 ePc 46 39.00 -1.4
VAO 18.41 100 (P) 47 41.00 1.3
BAO 18.59 76 eP 47 43.50 1.9
TUL 63.04 334 eP 53 40.20 -5.1X
1.0s 3.30nm 4.1mb
SID 63.12 333 eP 53 46.10 0.3
LIC 66.32 73 P 54 06.10 -0.7
KIC 66.64 73 P 54 08.40 -0.4
0.5s 9.00nm 4.8mb
ALO 67.32 325 eP 54 13.70 0.7
0.9s 3.57nm 4.1mb
LKO 67.32 69 Pc 54 11.26 -1.9
0.6s 8.50nm 4.7mb
YKA 91.52 340 eP 56 23.00 1.1
0.8s 2.80nm 4.4mb
WRA 134.28 208 PKPc 02 33.40 -0.4
0.4s 0.70nm
GKN 153.10 70 PKP 03 00.00 -5.6X
S.D. = 1.3 on 20 of 25 obs.

% AUG 24, 1990 11h 04m 09.54± 1.29s
26.341 S ± 11.2km 27.412 E ± 12.2km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.2 (PRE).

BPI 0.58 74 eP 04 21.20 0.0
PRY 0.59 175 eP 04 20.50 -0.8
S 04 28.00
BFS 0.79 225 eP 04 25.50 0.1
SLR 0.99 53 eP 04 28.00 -0.9
EVA 1.50 97 eP 05 09.50 32.2X
S 05 28.00
SEK 1.98 175 eP 04 45.00 0.7
S 05 08.50
SWZ 2.05 245 eP 04 48.00 2.8X
S 05 13.50
BFT 2.46 75 eP 04 52.00 0.9
S 05 21.50
S.D. = 1.0 on 6 of 8 obs.

AUG 24, 1990 11h 14m 23.43± 0.23s
29.767 N ± 5.5km 60.598 E ± 3.2km
DEPTH = 33.0km (normal)
4.9mb (47 obs.) 3.9Msz (6 obs.)
SOUTHERN IRAN (353)
Felt at Zahedan.

QUE 5.53 84 eP 15 45.00 -0.7
eS 17 03.20
MAIO 6.58 352 eP 16 01.00 0.5
0.9s 19.18nm 4.9mb
eS 17 32.00
BBU 9.64 251 eP 16 49.50 6.7X
0.4s 182.00nm 6.7mb X
9.78 310 eP 16 47.00 2.1
TEH 12.32 295 eP 17 35.00 15.5X
RYD 13.42 251 eP 17 31.00 -3.0X
MJMA 14.10 258 eP 17 40.00 -2.9X
TAB 14.44 309 eP 17 56.00 8.5X
NDI 14.55 90 iPc 17 44.00 -4.9X
0.8s 223.88nm 5.7mb
eS 20 38.00
OASM 15.52 260 eP 18 00.50 -1.0

KSH 15.91 49 P 18 04.80 -1.7
S 21 01.00
HYB 20.51 723 eP 19 07.50 6.1X
GKN 21.12 89 P 19 06.80 -1.0
AYN 21.46 274 eP 19 13.00 1.9
HRI 21.46 286 eP 19 15.20 4.0X
BHL 21.57 287 P 19 15.00 2.7X
DMN 21.60 90 P 19 12.60 -0.2
KKN 21.72 89 P 19 13.60 -0.3
DSI 21.76 281 eP 19 19.30 5.3X
PKI 21.87 90 P 19 15.40 -0.2
MKT 21.98 279 eP 19 21.80 5.5X
GUN 22.21 89 P 19 19.40 0.4
GBA 22.39 132 Pc 19 21.50 1.1
0.9s 48.10nm 5.0mb
RMN 22.46 278 eP 19 23.50 2.4
KOD 25.01 138 iP 19 48.00 1.7
WMO 25.70 49 P 19 52.00 -0.2
Z 12s 1.10um 4.6MszX
MLR 31.33 310 ePd 20 45.50 2.5
GTA 33.47 63 eP 21 04.00 2.3
1.4s 20.00nm 4.8mb
SKO 33.71 302 eP 21 03.50 -0.2
OHR 34.07 300 eP 21 07.20 0.3
CHG 36.46 99 eP 21 26.10 -1.3
KRA 36.60 315 eP 21 28.10 -0.1
1.2s 58.00nm 5.3mb
e 21 32.50
LZH 36.61 69 Pc 21 31.50 2.8X
2.5s 58.00nm 5.0mb
Z 20s 0.60um 4.4Msz
SP 21 45.00
KMI 37.53 87 eP 21 36.50 -0.1
1.5s 80.00nm 5.4mb
Z 14s 0.70um 4.6MszX
MGR 37.99 298 P 21 40.50 0.5
SGO 38.19 299 P 21 43.00 1.4
NUR 38.96 332 iP 21 47.40 -0.4
0.7s 16.00nm 4.9mb
KSP 39.06 315 iPc 21 49.80 1.0
SUF 39.76 336 iP 21 54.70 0.3
PRU 39.94 314 eP 21 56.00 -0.1
KHC 40.38 312 eP 22 00.00 0.2
e 22 32.90
FVI 40.51 308 P 22 01.00 0.2
BRG 40.51 315 eP 22 01.60 0.8
1.8s 40.00nm 4.9mb
GYA 40.56 83 P 22 05.60 3.9X
BHG 40.60 310 iPd 22 02.40 0.8
1.1s 90.00nm 5.4mb
VVI 40.68 307 P 22 02.50 0.2
CRE 40.82 304 P 22 04.50 0.9
XAN 40.95 71 P 22 04.00 -0.6
PGD 41.00 304 P 22 06.70 1.6
CLL 41.19 315 eP 22 07.00 0.7
1.7s 59.00nm 5.0mb
BTO 41.33 61 eP 22 09.80 2.0
OGA 41.74 308 eP 22 11.20 0.0
BDI 41.82 304 P 22 12.00 0.3
GRF 41.99 313 ePc 22 13.90 0.9
1.1s 21.00nm 4.8mb
Z 18s 0.10um 3.7Msz
e 22 17.70
MDI 42.55 307 P 22 17.50 0.0
SOD 42.73 341 iP 22 19.80 1.0
TIY 43.37 65 eP 22 25.00 0.6
HFS 43.53 328 eP 22 25.10 -0.3
1.0s 23.00nm 4.9mb
Z 16s 0.13um 3.9MszX
LR 40 57.00
TNS 43.84 313 ePc 22 28.80 0.7
SBF 44.10 304 eP 22 29.30 -1.0
1.1s 24.40nm 4.9mb
DOI 44.24 305 P 22 29.00 -2.5
KEV 44.34 344 eP 22 25.00 -6.8X
CDF 44.41 310 eP 22 31.60 -1.2
0.8s 8.05nm 4.6mb
LPG 44.61 306 eP 22 33.60 -1.1
1.5s 26.10nm 4.9mb
LPL 44.62 306 eP 22 33.60 -1.1
0.9s 4.90nm 4.4mb
BNI 44.65 305 P 22 34.50 -0.4
BSF 44.69 309 eP 22 33.70 -1.3
0.7s 4.40nm 4.4mb
HAU 45.00 310 eP 22 36.50 -0.9
0.8s 10.75nm 4.8mb
Z 20s 0.13um 3.8Msz

WTS	45.10	315	eP	22	42.00	3.9X	0.9s	10.00nm		VBV	8.19	334	iPnd	56	40.60	-0.5
	1.0s	15.00nm			4.8mb								iSn	58	08.80	
NAO	45.11	328	P	22	37.10	-1.0	0.9s	10.00nm		ZAG	8.23	338	e(Pn)	56	40.60	-1.1
	1.0s	16.10nm			4.9mb								iSn	58	09.50	
MEM	45.44	313	P	22	41.80	1.0							P	56	42.00	0.1
ENN	45.51	313	eP	22	41.00	-0.3							ePd	56	43.00	0.0
	1.0s	14.00nm			4.8mb								ePn	56	40.40	-2.5X
DOU	46.29	312	P	22	48.30	0.7							e	57	38.00	
SNF	46.52	313	P	22	50.30	0.9							P	56	43.70	0.3
LBF	46.56	308	eP	22	48.80	-1.0							P	56	47.40	0.8
	1.4s	34.85nm			5.1mb								P	56	48.70	1.3
LOR	46.65	308	eP	22	49.50	-1.0							ePn	56	46.40	-1.7
	1.0s	14.00nm			4.9mb								eSn	58	21.50	
Z	20s	0.13um			3.9Msz								ePn	56	49.60	-1.5
SMF	46.65	308	eP	22	49.80	-0.7							eSn	58	25.00	
	1.2s	40.15nm			5.3mb								ePd	56	51.00	-0.4
SSF	46.89	308	eP	22	51.80	-0.5							iPnd	56	49.40	-1.9
	1.0s	18.00nm			5.0mb								iSn	58	24.40	
AVF	46.99	308	eP	22	52.40	-0.7							ePn	56	52.30	-2.1
	1.4s	21.80nm			5.0mb								eSn	58	27.70	
BCAO	47.04	246	iPd	22	53.80	-0.1							P	56	57.00	1.2
	0.9s	14.00nm			5.0mb								P	56	58.50	0.6
		i		23	11.50								P	56	59.20	0.9
BGF	47.34	307	eP	22	55.30	-0.6							P	57	00.50	-1.9
	1.1s	12.20nm			4.8mb								P	57	05.20	-1.5
MAF	47.54	307	eP	22	57.20	-0.3							P	57	10.50	-0.9
	1.4s	17.45nm			4.9mb								eP	57	19.00	0.1
TCF	47.78	307	eP	22	58.90	-0.6							e	57	41.00	
	1.0s	7.00nm			4.6mb								P	57	16.70	-2.2
CAF	47.93	305	eP	23	00.20	-0.4							P	57	20.00	0.2
	1.0s	7.00nm			4.6mb								iPd	57	22.10	-0.7
LSF	48.26	307	eP	23	02.20	-0.9							ic	57	22.40	
	1.2s	14.90nm			4.9mb								iS	59	07.00	
RJF	48.30	306	eP	23	03.40	0.0							eP	57	25.50	1.8
	1.2s	17.85nm			5.0mb								P	57	29.50	0.3
Z	20s	0.10um			3.8Msz								eP	57	40.30	0.2
LFF	48.87	305	eP	23	07.30	-0.5							P	57		

24d 13h

PWA 1.71 161 eP 58 08.01 0.1
 58 29.89
 WRH 1.78 46 eP 58 07.66 -1.2
 58 07.66
 GHO 1.80 146 eP 58 09.50 0.3
 58 09.50
 SUA 1.82 175 eP 58 09.95 0.4
 58 09.95
 PLRM 1.91 151 eP 58 10.60 -0.1
 58 10.60
 SML 1.93 138 eP 58 10.90 -0.3
 58 10.90
 NCG 1.94 196 eP 58 11.45 0.1
 58 11.45
 CCB 1.99 45 eP 58 10.37 -1.5
 58 10.37
 CGLM 2.02 193 eP 58 12.85 0.4
 58 12.85
 CRP 2.08 195 eP 58 13.94 0.6
 58 13.94
 BGL 2.11 198 eP 58 14.76 1.0
 58 14.76
 HDA 2.14 56 eP 58 16.13 2.0
 58 16.13
 SPU 2.15 193 eP 58 14.60 0.3
 58 14.60
 PMS 2.15 160 eP 58 14.84 0.5
 58 14.84
 CKL 2.17 197 eP 58 16.47 1.8
 58 16.47
 FBA 2.17 40 eP 58 16.42 1.8
 58 16.42
 GLM 2.36 41 eP 58 19.10 1.8
 58 19.10
 TOA 2.54 115 eP 58 20.42 0.6
 58 20.42
 RDT 2.78 194 eP 58 23.70 0.4
 58 23.70
 SLKM 2.80 172 eP 58 24.88 1.3
 58 24.88
 RED 2.98 197 eP 58 28.46 2.4
 58 28.46
 KLU 2.98 124 eP 58 27.24 1.1
 58 27.24

27 obs. associated

% AUG 24, 1990 14h 09m 08.06 ± 0.60s
 26.424 S ± 5.7km 27.336 E ± 5.7km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 2.9 (PRE).

PRY 0.52 166 eP 09 19.00 0.6
 09 25.30
 BPI 0.67 68 eP 09 21.70 0.2
 09 21.70
 KSR 0.68 325 eP 09 22.00 0.3
 09 22.00
 BFS 0.68 226 iPc 09 23.00 1.3
 09 23.00
 SLR 1.09 51 eP 09 28.40 -0.8
 09 28.40
 EVA 1.56 93 eP 10 06.00 29.3X
 10 06.00
 SEK 1.91 172 eP 09 42.00 0.3
 09 42.00
 SWZ 1.95 247 eP 09 42.80 0.5
 09 42.80
 BFT 2.54 74 eP 09 51.50 0.6
 09 51.50
 BLF 2.86 201 eP 09 54.00 -1.4
 09 54.00
 KIM 3.24 224 eP 09 59.20 -1.6
 09 59.20
 S.D. = 1.0 on 10 of 11 obs.

? AUG 24, 1990 14h 49m 38.06 ± 1.81s
 33.045 N ± 41.4km 71.783 E ± 31.4km
 DEPTH = 33.0km (normal)
 4.1mb (1 obs.)
 PAKISTAN (710)

NDI 6.38 132 ePn 51 12.00 -0.2
 51 12.00
 GKN 12.17 111 P 52 33.00 0.9
 52 33.00
 DMN 12.72 112 P 52 40.60 1.0
 52 40.60
 KKN 12.77 111 P 52 40.80 0.6
 52 40.80
 PKI 12.97 111 P 52 43.00 0.0
 52 43.00
 GUN 13.19 109 P 52 43.60 -2.3
 52 43.60
 NAO 47.71 325 P 58 13.20 0.0
 58 13.20
 S.D. = 1.4 on 7 of 7 obs.

AUG 24, 1990 15h 41m 20.00 ± 0.39s
 17.699 S ± 7.1km 13.253 W ± 6.6km
 DEPTH = 10.0km (geophysicist)
 5.1mb (19 obs.) 4.8msz (7 obs.)
 SOUTH ATLANTIC RIDGE (410)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 25C
 Centroid Location:
 Origin Time 15:41:27.9 0.7
 Lat 17.62S 0.06 Lon 13.38W 0.06
 Dep 15.0 FIX Half-duration 1.9
 Moment Tensor: Scale 10¹⁷ Nm
 Mrr=-0.04 0.05 Mtt= 0.65 0.06
 Mff=-0.61 0.06 Mrt= 0.02 0.18
 Mrf=-0.13 0.15 Mtf=-1.08 0.05

Principal Axes:

T Val= 1.28 Plg= 4 Azm= 30
 N -0.04 84 155
 P -1.24 5 300
 Best Double Couple: Mo=1.3×10¹⁷
 NP1: Strike= 75 Dip= 84 Slip= -179
 NP2: 345 89 -6

LIC 25.12 20 P 46 46.62 -0.1
 1.3s 148.00nm 5.5mb
 Z 20s 2.00um 4.6msz
 KIC 25.34 20 P 46 48.50 -0.3
 1.0s 96.50nm 5.4mb
 TIC 25.52 19 P 46 50.30 -0.2
 0.8s 76.00nm 5.4mb
 CAI 25.82 293 eP 46 53.40 0.0
 LKO 28.11 16 Pc 47 12.22 -2.1
 1.0s 34.00nm 5.1mb
 WIN 28.88 105 iP 47 06.90 -14.5X
 0.9s 46.00nm
 SWZ 36.76 112 iPc 48 36.50 6.5X
 0.5s 50.00nm 5.6mb
 BLF 37.77 115 eP 48 38.00 -0.4
 BCAA 38.31 58 iPc 48 41.90 -1.0
 0.9s 37.00nm 5.1mb
 SEK 38.92 113 eP 48 47.00 -1.1
 0.7s 22.00nm 4.9mb
 BPI 39.08 110 iP 48 49.00 -0.5
 SLR 39.28 109 iPc 48 50.00 -1.1
 1.3s 90.00nm 5.3mb
 Z 20s 8.66um 5.6msz
 BUL 39.61 100 iPc 48 52.50 -1.4
 0.9s 16.81nm 4.7mb
 BFT 40.86 109 iPc 49 04.50 0.3
 0.8s 106.00nm 5.6mb
 KRI 40.88 95 iPd 49 03.30 -1.1
 CIR 42.33 102 iPd 49 16.60 0.5
 LWI 44.03 74 iPc 49 31.00 0.8
 LWI 44.03 74 iPd 49 31.30 1.1
 SIV 45.70 265 P 49 44.00 0.6
 TIO 48.69 7 eP 50 08.50 1.8
 0.5s 17.50
 AVE 51.01 6 eP 50 22.00 -2.3
 0.5s 29.00
 IFR 51.51 9 iP 50 30.00 1.7
 CNCB 52.11 262 P 50 34.00 0.3
 LPB 52.27 263 eP 50 33.00 -1.7
 0.5s 22.00
 ZOBO 52.34 263 P 50 35.00 -0.4
 Z 20s 0.53um 4.6msz
 S 58 06.00
 LR 06 32.00
 TOL 57.92 8 eP 51 19.00 4.3X
 0.5s 59 30.00
 TDS 63.39 25 P 51 56.50 4.5X
 LPO 63.46 11 eP 51 51.50 -0.8
 MGR 63.49 24 P 51 52.50 -0.1
 LFF 63.63 11 eP 51 52.70 -0.7
 0.9s 18.00nm 5.3mb
 RJF 64.12 12 eP 51 55.70 -1.0
 0.9s 8.20nm 4.9mb
 Z 20s 1.05um 5.0msz
 MNS 64.39 21 P 52 01.50 3.0X
 DOI 64.67 16 P 52 01.00 0.6
 BNI 65.03 15 P 51 52.00 -10.8X
 LSF 65.04 11 eP 52 01.90 -0.7
 TCF 65.20 12 eP 52 03.20 -0.5
 0.8s 5.35nm 4.8mb
 BDI 65.22 19 P 52 02.50 -1.4
 LPG 65.47 15 eP 52 05.40 -0.4
 1.0s 14.00nm 5.1mb
 LPL 65.48 15 eP 52 05.40 -0.4
 1.0s 13.00nm 5.1mb
 SMF 65.87 13 eP 52 07.10 -0.9
 AVF 65.91 12 eP 52 07.30 -0.9
 0.8s 4.70nm 4.7mb
 MBH 66.18 45 eP 52 11.10 0.9
 SSF 66.20 12 eP 52 09.30 -0.8
 LBF 66.23 13 eP 52 09.10 -1.2
 MDI 66.52 17 P 52 14.50 2.4
 NOH 66.81 44 eP 52 14.60 0.2
 SKO 67.47 27 P 52 17.50 -0.7
 Z 20s 0.68um 4.9msz
 N 18s 0.41um
 E 18s 0.48um

i 52 28.00
 iPcP 52 35.80
 e 00 35.00
 iS 01 18.00
 LR 22 24.00
 LISJ 67.50 44 Pc 52 20.00 1.4
 VVI 67.51 19 P 52 18.50 0.0
 TRI 67.70 20 P 52 21.50 1.9
 MKRJ 67.81 44 Pc 52 21.20 0.5
 JVI 67.85 44 eP 52 21.10 0.3
 VOY 68.02 20 e(P) 52 22.20 0.4
 SALJ 68.12 44 Pc 52 23.30 0.7
 FVI 68.17 19 P 52 23.00 0.5
 LJU 68.25 20 e(P) 52 23.00 0.0
 SOTA 68.26 18 e(P) 52 19.00 -4.3X
 i 52 37.10
 PTJ 68.61 21 eP 52 25.20 -0.2
 HRI 68.96 43 eP 52 28.40 0.6
 MEM 70.09 13 P 52 34.20 0.0
 GRF 70.51 17 e(P) 52 40.50 3.6X
 Z 21s 0.40um 4.6msz
 e 01 58.50
 KHC 70.68 18 eP 52 37.50 -0.4
 Z 18s 0.60um 4.9msz
 N 17s 0.50um
 E 16s 0.40um
 e 55 07.50
 ZST 70.99 21 eP 52 43.30 3.5X
 e 55 10.80
 SRO 71.08 22 eP 52 46.20 5.9X
 PRU 71.73 18 eP 52 48.20 4.0X
 e 52 56.20
 BRG 72.34 18 e(P) 52 55.60 7.8X
 e 55 32.00
 e 57 12.00
 SPA 72.41 180 eP 52 50.00 1.7
 1.1s 18.45nm 5.1mb
 CLL 72.46 17 e(P) 53 12.00 23.5X
 e 55 31.00
 SPC 72.93 22 eP 52 55.80 4.2X
 KSP 73.02 19 eP 52 53.20 1.4
 KRA 73.55 22 eP 52 56.60 1.7
 HFS 80.58 13 eP 53 37.50 3.6X
 0.5s 1.30nm 4.2mb
 Z 17s 0.35um 4.8msz
 LR 21 46.00
 NAO 80.62 12 PKP 53 39.20 5.1X
 0.9s 3.70nm 4.4mb
 NUR 83.71 18 eP 53 54.00 3.9X
 SBA 84.64 180 e(P) 53 57.90 3.3X
 SUF 85.91 17 eP 54 08.00 6.9X
 MAIO 87.12 51 iPd 54 09.50 1.8
 SOD 89.74 14 eP 54 20.00 0.6
 QUE 90.61 59 eP 54 27.00 2.5X
 KEV 91.72 13 eP 54 38.00 9.5X
 SSE 136.70 63 PKP 00 48.50 3.6X
 1.0s 15.00nm
 MAT 148.60 48 ePKP 01 09.00 3.5X
 S.D. = 1.1 on 59 of 82 obs.

% AUG 24, 1990 16h 09m 49.98 ± 0.86s
 26.371 S ± 8.4km 27.374 E ± 7.6km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 2.1 (PRE).

PRY 0.56 171 eP 10 00.90 -0.3
 BPI 0.62 72 eP 10 03.00 0.6
 S 10 09.00
 BFS 0.74 225 eP 10 05.00 0.1
 S 10 13.00
 SLR 1.03 52 eP 10 09.50 -0.6
 S 10 21.90
 EVA 1.53 95 eP 10 47.50 29.3X
 S 11 05.50
 SEK 1.96 174 eP 10 24.50 0.2
 S 10 49.50
 SWZ 2.00 246 eP 10 25.00 0.0
 S.D. = 0.5 on 6 of 7 obs.

% AUG 24, 1990 16h 12m 42.79 ± 0.74s
 26.472 S ± 6.8km 27.458 E ± 7.6km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 2.5 (PRE).

PRY 0.45 178 eP 12 52.50 0.6

NAO	113.87	337	PKP	42 53.00	-0.2	LDF	126.69	331	ePKP	43 17.50	-0.6	ROCH	1.59	139	eP	36 22.00	-0.7
	1.0s		3.80nm				1.1s		23.20nm						iS	36 45.00	
SPC	115.25	323	ePKP	42 57.00	0.6	FLN	126.74	332	ePKP	43 17.80	-0.4	JACH	1.67	124	iPc	36 23.00	-0.6
TUL	116.49	52	ePKP	42 59.00	0.1		1.2s		23.80nm						iS	36 44.60	
	1.2s		12.30nm				1.3s		36.10nm						iPc	36 25.10	-0.1
ZST	117.55	323	ePKP	43 01.30	0.8	MAF	126.91	328	ePKP	43 18.60	0.0	LCCH	1.79	162	iPc	36 25.00	
BRG	118.06	327	iPKP	43 01.80	0.4		Z 19s		0.10um		4.5MsZ				i	36 56.00	
	1.8s		32.00nm			TCF	127.06	328	ePKP	43 19.00	0.1	PEL	1.90	137	iPc	36 26.10	-0.6
			i	44 21.20			1.1s		30.50nm						iS	36 53.10	
PRU	118.18	326	PKP	43 01.90	0.2	GRR	127.18	332	ePKP	43 18.70	-0.3	SAN	2.14	142	eP	36 30.50	0.6
CLL	118.34	328	iPKP	43 02.40	0.5		1.2s		23.80nm						e	36 31.50	
	1.3s		19.00nm			LSF	127.44	328	ePKP	43 19.30	-0.3	TACH	2.18	150	iPd	36 30.60	0.2
			e	44 23.00		LPF	127.52	331	ePKP	43 19.40	-0.3	FCH	2.26	134	iPd	36 31.50	-0.4
KHC	119.16	325	iPKP	43 03.90	0.3		1.1s		39.05nm						iS	37 00.70	
	1.4s		14.50nm			BLA	127.59	45	PKP	43 19.00	-1.3	LNv	2.29	162	iPc	36 31.10	-0.7
MOX	119.44	328	ePKP	43 04.50	0.4	WNY	127.90	34	PKP	43 19.00	-1.6	PCH	2.35	142	eP	36 33.30	0.5
FVM	119.99	48	PKP	43 05.00	-0.5	CAF	128.01	327	ePKP	43 21.10	0.3				iS	37 03.50	
GRF	120.17	327	ePKPc	43 06.10	0.6	RJF	128.06	327	ePKP	43 20.90	0.1	CHCH	2.54	149	iPd	36 36.70	1.4
TRI	120.73	322	PKP	43 06.00	-0.7		1.1s		14.65nm						i	37 06.30	
FVI	120.90	323	PKP	43 06.50	-0.4	Z 22s			0.08um		4.3MsZ				iP	36 41.00	0.8
VVI	121.42	323	PKP	43 08.50	0.5	MFF	128.07	330	ePKP	43 20.50	-0.3	RTCB	2.95	85	e(P)	36 41.00	0.8
SQTA	121.50	324	ePKP	43 08.00	-0.3		1.2s		20.85nm						eP	36 42.00	-0.3
	1.2s		35.70nm			JSC	128.26	49	PKP	43 21.00	-0.5	MDZ	3.08	112	eP	36 48.00	6.0X
			id	43 08.80		HBVT	128.36	34	PKP	43 20.40	-1.0				e	36 59.00	
TDS	121.65	315	PKP	43 10.00	1.4	LPO	128.64	327	ePKP	43 22.20	0.2	CFA	3.42	88	ePc	36 42.30	-5.1X
MEM	122.36	330	PKP	43 10.20	0.6		1.2s		41.65nm						S	37 28.10	
OSS	122.40	324	ePKP	43 10.50	0.4	LFF	128.72	327	ePKP	43 22.30	0.2	ZOBO	15.88	15	P	39 36.00	0.5
SOI	122.46	313	PKP	43 11.50	1.3	LNv	128.92	141	ePKP	43 23.00	0.2	SIV	18.71	36	P	40 09.00	-0.7
SLE	122.75	326	ePKP	43 10.50	0.0												

BRC	1.55	248	ePn	01 44.60	-0.1
			iPg	01 46.10	
			iSg	02 06.00	
PRU	1.83	216	Pn	01 48.70	-0.2
			ePg	01 50.50	
			Sn	02 08.00	
			Sg	02 14.50	
			e	29 28.50	
			eSg	30 02.00	
CLL	2.01	266	iPn	01 51.40	0.0
			iPg	01 54.10	
			eSg	02 21.00	
KHC	2.90	217	Pn	02 04.00	-0.1
			Pg	02 10.20	
			Sn	02 39.20	
			Sg	02 48.00	
WET	3.17	224	iPnc	02 08.10	0.2
VKA	3.23	179	iPg	02 18.00	9.2X
			e(Sg)	02 50.00	
ZST	3.34	170	eP	03 06.60	56.1X
			e	03 14.70	
			e	30 09.80	
GRF	3.65	242	e(Pn)	02 15.00	0.2
			e(Pg)	02 27.80	
			eSg	03 12.70	
S.D. = 0.2 on 7 of 9 obs.					
AUG 24, 1990 18h 58m 48.81±1.16s					
31.926 S ±11.1km 72.174 W ±14.6km					
DEPTH = 111.5 ± 17.2 km					
OFF COAST OF CENTRAL CHILE (134)					
IHA	1.19	158	eP	59 11.50	-0.9
			iS	59 15.40	
ROCH	1.43	137	iP	59 14.30	-1.2
			i	59 37.00	
JACH	1.54	120	iPc	59 15.50	-1.1
			iS	59 38.00	
PEL	1.75	134	iPc	59 18.60	-0.6
			iS	59 47.00	
SAN	1.99	140	ePc	59 22.20	0.0
			iS	59 55.30	
TACH	2.01	149	iPc	59 23.40	0.9
			i	00 00.00	
FCH	2.12	132	iPd	59 24.10	-0.1
			iS	59 56.40	
LNV	2.12	163	iPd	59 23.90	0.0
			iS	59 59.80	
CHCH	2.38	148	iPd	59 29.20	1.9
			i	00 08.00	
RTCB	2.91	82	eP	59 34.10	-0.3
MDZ	2.97	110	eP	59 36.60	1.4
			e	59 40.40	
ZON	3.00	84	eP	59 36.00	0.3
CFA	3.37	86	ePc	59 40.90	0.3
ANT	8.34	11	e(P)	01 00.50	12.1X
CNCB	15.52	15	eP	02 24.00	0.7
LPB	15.77	15	(P)	02 21.00	-5.2X
ZOBO	16.02	14	P	02 30.00	0.5
Z	20s		0.35um		
			LR	18 04.00	
SIV	18.81	35	P	03 02.00	-0.4
BAO	27.34	59	e(P)	04 24.00	-1.3
LKO	75.72	69	P	10 29.62	5.5X
GBA	146.74	116	PKPd	18 37.40	19.6X
	0.5s		5.00nm		
S.D. = 1.0 on 17 of 21 obs.					
AUG 24, 1990 19h 02m 07.27±0.73s					
4.805 S ± 3.6km 152.217 E ± 4.5km					
DEPTH = 84.7 ± 6.6 km					
5.3mb (27 obs.)					
NEW BRITAIN REGION (192)					
CENTROID, MOMENT TENSOR (HRV)					
Data Used: GDSN					
L.P.B.: 13S, 24C					
Centroid Location:					
Origin Time 19:02:12.6 0.6					

	E	10s	0.20um			0.3s	16.88nm	5.5mb	PRNI	85.71	303 eP	33	48.30	0.0
NJ2		18.27	274 Pd	25	28.00	1.9			GOL	85.73	45 P	33	49.00	0.4
		1.0s	40.00nm			4.6mb				1.0s	9.38nm			4.8mb
GUMO		19.34	167 eP	25	39.30	0.9			KHC	85.91	328 iP	33	50.00	1.0
		1.1s	621.91nm			5.5mb				1.1s	6.00nm			4.5mb
PJG		19.34	167 eP	25	39.40	1.0					e.	37	10.60	
GUA		19.40	167 eP	25	39.80	0.8			WIT	85.91	334 eP	33	50.00	1.2
		0.5s	208.45nm			5.7mb			WTS	86.50	333 eP	33	51.00	-0.7
TIA		19.58	287 eP	25	40.00	-0.8				1.0s	9.00nm			4.8mb
BJI		20.89	298 eP	25	53.00	-1.3			GRF	86.51	330 eP	33	53.60	1.7
		0.7s	15.00nm			4.4mb			EKA	87.04	340 Pd	33	55.30	0.9
Z		22s	0.74um			4.0Msz				0.8s	9.90nm			5.0mb
			eS	29	40.00				ENN	87.82	333 eP	33	57.50	-0.6
WHN		22.33	272 iPc	26	11.00	2.4				1.0s	17.00nm			5.1mb
		0.5s	50.00nm			5.2mb			ANMO	88.06	49 P	34	00.00	0.1
			PP	26	29.50				ALO	88.06	49 eP	33	59.80	-0.1
			eS	30	08.00					1.0s	5.00nm			4.6mb
TIY		23.44	290 eP	26	21.00	1.5			FVI	88.15	327 P	33	58.50	-1.3
Z		18s	1.50um			4.5Msz			VVI	88.77	327 P	34	02.50	-0.3
E		13s	0.40um						BSF	89.81	331 eP	34	06.60	-1.2
			S	30	23.00				SAL	89.92	327 P	34	08.00	-0.2
HHC		24.50	298 P	26	31.00	1.2			SFI	90.58	326 P	34	13.00	1.8
Z		15s	0.60um			4.2MszX			PGD	90.68	326 P	34	13.50	1.5
E		12s	0.40um						CRE	90.75	325 P	34	13.00	0.8
			eS	30	40.00				BDI	91.06	326 P	34	13.50	-0.1
BTO		25.62	297 P	26	42.00	1.7			LOR	91.44	332 eP	34	14.30	-0.9
N		14s	0.40um							1.0s	8.00nm			5.0mb
E		14s	0.30um						Z	20s	0.08um			4.1Msz
XAN		26.35	282 P	26	45.70	-1.3			LBF	91.63	332 eP	34	15.20	-0.9
GYA		29.95	267 P	27	19.40	-0.3				0.9s	6.55nm			5.0mb
CD2		31.16	277 P	27	28.20	-2.0			LPL	91.67	329 eP	34	15.90	-0.7
GTA		33.37	293 eP	27	48.00	-1.4				0.9s	9.00nm			5.2mb
		0.6s	10.00nm			4.9mb			LPG	91.67	329 eP	34	16.10	-0.6
LOE		37.99	256 eP	28	28.00	-0.6				0.9s	9.85nm			5.2mb
CHG		39.60	260 eP	28	41.50	-0.5			SSF	91.75	332 eP	34	16.00	-0.6
		1.0s	27.75nm			5.1mb				0.9s	7.35nm			5.1mb
NNT		42.21	251 eP	29	02.80	-0.7			LDF	91.84	335 eP	34	15.90	-1.1
WMO		42.30	301											

25d 11h

ETA	0.9s	18.00nm	5.1mb
EVIA	74.17	37 eP	55 01.20 -0.4
TOA	74.76	52 eP	55 06.50 0.9
	74.97	333 iPd	55 08.40 2.2
	0.8s	33.70nm	5.4mb
ETOR	75.30	49 eP	55 09.00 0.4
PMR	76.19	332 eP	55 13.30 0.2
	1.3s	26.90nm	5.2mb
EKA	76.42	34 Pc	55 13.50 -1.0
	1.3s	27.70nm	5.2mb
FBA	76.45	336 eP	55 14.30 -0.2
LPF	76.73	42 iPc	55 15.60 -0.7
	1.0s	14.00nm	5.0mb
GRR	76.89	42 iPc	55 16.50 -0.7
	1.0s	24.00nm	5.2mb
FLN	77.18	41 iPc	55 18.30 -0.5
	1.2s	41.65nm	5.4mb
MFF	77.19	44 eP	55 18.50 -0.5
	1.1s	26.85nm	5.2mb
EPF	77.25	47 iPc	55 19.40 -0.1
	1.3s	54.15nm	5.5mb
LDF	77.40	42 eP	55 19.50 -0.5
	1.1s	24.40nm	5.2mb
LFF	77.60	45 iPc	55 21.00 -0.7
	1.1s	22.00nm	5.1mb
LPO	77.98	46 iPc	55 22.90 -0.4
	1.0s	30.00nm	5.3mb
RJF	78.25	45 iPc	55 24.10 -0.7
	1.1s	29.30nm	5.3mb
LSF	78.32	44 eP	55 24.40 -0.8
CAF	78.62	45 iPc	55 26.40 -0.5
	1.2s	35.70nm	5.3mb
TCF	78.80	44 eP	55 27.00 -0.8
	1.1s	13.45nm	4.9mb
MAF	79.04	44 iPc	55 28.50 -0.6
	1.1s	25.65nm	5.2mb
IMA	79.10	336 eP	55 29.10 -0.2
SVW	79.18	331 eP	55 28.90 -0.7
BGF	79.25	44 iPc	55 29.60 -0.7
	1.1s	30.50nm	5.2mb
AVF	79.61	44 eP	55 31.20 -1.0
	1.1s	17.10nm	5.0mb
SSF	79.73	43 eP	55 31.80 -1.0
	1.2s	25.30nm	5.1mb
SMF	79.94	44 iPc	55 33.00 -1.0
	1.1s	29.30nm	5.2mb
LOR	79.98	43 iPc	55 33.10 -1.1
	1.3s	30.70nm	5.1mb
LBF	80.05	43 eP	55 33.30 -1.3
	1.2s	17.85nm	4.9mb
SNF	80.40	40 P	55 47.20 10.9X
DOU	80.58	40 P	55 37.00 -0.3
		S	05 45.00
ENN	81.45	40 eP	55 42.00 0.2
	1.1s	20.00nm	5.1mb
MEM	81.50	40 P	55 42.40 0.4
LRG	81.66	47 eP	55 42.70 -0.4
HAU	81.68	42 eP	55 42.50 -0.6
FRU	81.87	47 eP	55 43.70 -0.5
	1.3s	43.30nm	5.4mb
BNI	81.89	45 P	55 45.00 0.6
LPL	81.93	45 iPc	55 44.90 0.1
	1.1s	14.65nm	5.0mb
LPG	81.94	45 iPc	55 45.10 0.2
	1.1s	23.20nm	5.2mb
WIT	81.95	38 eP	55 45.00 0.6
BSF	81.98	43 eP	55 43.80 -1.0
	1.1s	19.55nm	5.1mb
WTS	82.03	38 eP	55 44.50 -0.3
	0.9s	26.00nm	5.3mb
DOI	82.30	46 P	55 48.50 2.0
CDF	82.30	42 eP	55 45.70 -0.8
	1.1s	17.10nm	5.1mb
DIX	82.40	44 eP	55 48.00 0.7
SBF	82.44	47 eP	55 46.70 -0.6
MMK	82.79	44 eP	55 50.30 1.1
FEL	82.80	43 eP	55 48.48 -0.6
CKI	83.04	46 P	55 51.00 0.7
TNS	83.06	40 ePd	55 51.10 0.8
ZLA	83.06	43 eP	55 50.40 0.0
SLE	83.12	43 eP	55 50.70 0.0
TMA	83.42	44 eP	55 52.50 0.1
PGF	83.62	48 iPc	55 52.80 -0.6
	0.8s	10.75nm	5.1mb
VDL	83.82	44 eP	55 55.00 0.5
MDI	84.01	45 P	55 54.00 -1.1
NAO	84.22	29 P	55 56.40 0.5

OSS	1.0s	11.80nm	5.1mb
SAL	84.28	44 eP	55 57.30 0.6
PIL	84.59	45 P	55 58.00 0.0
BDI	84.68	47 P	55 59.50 1.0
GRF	84.72	46 P	55 58.00 -0.9
	84.86	41 e(P)c	56 00.20 0.8
Z	22s	0.50um	4.9Msz
		e(PP)	00 07.90
SOTA	84.98	43 eP	56 01.00 0.8
	0.8s	9.00nm	5.1mb
		ic	56 01.70
MOX	85.07	40 eP	56 02.00 1.6
	1.5s	17.00nm	5.1mb
PGD	85.54	46 P	56 02.50 -0.6
SFI	85.63	46 P	55 59.00 -4.3X
HFS	85.67	30 eP	56 03.50 0.4
	0.4s	0.70nm	4.2mb
Z	17s	0.56um	5.0MszX
		LR	31 54.00
CRE	85.72	47 P	56 02.80 -1.1
VVI	85.89	44 P	56 04.50 -0.1
CLL	85.90	39 iPd	56 05.40 0.9
	1.3s	24.00nm	5.2mb
WET	85.98	41 eP	56 05.60 0.6
	1.3s	54.00nm	5.6mb
BHG	86.08	43 eP	56 06.20 0.7
FVI	86.10	44 P	56 05.70 0.2
MNS	86.34	48 P	56 07.00 0.1
RDP	86.42	49 P	56 09.00 1.6
KHC	86.44	41 P	56 07.70 0.4
	1.3s	24.00nm	5.2mb
BRG	86.53	39 eP	56 18.20 10.6X
	1.3s	23.00nm	
TRI	86.85	45 eP	56 10.00 0.7
VOY	86.91	44 eP	56 09.30 -0.4
AZI	86.94	48 P	56 10.00 0.3
PRU	86.99	40 ePc	56 10.50 0.6
CEY	87.31	44 eP	56 12.00 0.4
LJU	87.35	44 eP	56 12.00 0.3
KSP	88.01	39 eP	56 15.50 0.7
SGO	88.48	50 P	56 18.50 1.3
MGR	88.71	50 P	56 18.50 0.1
ZST	88.86	42 eP	56 19.60 0.7
TDS	89.37	50 P	56 21.30 -0.2
SRO	89.71	42 eP	56 25.30 2.4
SOD	90.13	22 iP	56 25.20 0.7
KRA	90.43	40 eP	56 27.20 1.0
	1.3s	48.00nm	5.6mb
SPC	90.77	41 eP	56 29.60 1.6
NUR	91.00	29 eP	56 29.00 0.5
	0.8s	13.20nm	5.3mb
		i	56 41.30
OHR	92.53	48 eP	56 37.00 0.9
SKO	92.85	48 iP	56 37.30 -0.2
BCAO	95.64	85 ePc	56 56.30 5.4X
	0.7s	6.00nm	5.2mb
SPA	95.75	180 eP	56 51.10 0.6
	1.0s	11.00nm	5.3mb
MAT	126.19	324 ePKP	02 27.00 -1.0
	0.8s	4.48nm	
BJI	132.67	346 ePKP	02 39.00 -1.2
	1.0s	7.00nm	
LZH	138.33	358 ePKP	02 53.00 1.7
	1.5s	20.00nm	
Z	30s	0.70um	5.2MszX
GKN	142.28	26 PKP	02 54.20 -4.4X
KKN	142.75	26 PKP	02 54.40 -5.1X
	1.0s	31.00nm	
GUN	142.89	25 PKP	02 55.00 -4.9X
PKI	142.99	26 PKP	02 54.60 -5.4X
	1.1s	33.00nm	
ASPA	144.87	236 iPKPd	03 00.40 -2.5X
	1.1s	46.00nm	
Z	22s	0.19um	4.8Msz
		LR	19 25.40
WB5	145.93	243 ePKP	03 04.00 -0.8
WRA	145.93	243 PKPd	03 03.80 -1.0
	0.9s	10.00nm	
HYB	147.03	45 ePKP	03 08.40 1.8
SHL	147.20	18 iPKP	03 07.00 0.1
GBA	148.60	52 PKPd	03 07.90 -1.2
	0.8s	6.50nm	
KMI	149.28	359 ePKP	03 14.50 4.2X
KOD	150.50	57 ePKP	03 16.50 4.0X
MTN	150.82	254 iPKPc	03 17.50 5.0X
MUN	150.92	205 ePKP	03 17.00 4.8X

S.D. = 1.0 on 181 of 211 obs.

& AUG 25, 1990 11h 47m 30.30s
37.855 N 122.240 W
DEPTH = 4.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 3.5 (BRK).
Mo=3.3+10+13 Nm (BRK). Felt
(IV) at Berkeley and Oakland;
(III) at San Carlos and San
Mateo. Also felt at El Cerrito
and El Sobrante.

BKS	0.02	10 iP	47 31.00 -0.3
		iS	47 31.60
BRK	0.02	319 iPc	47 31.10 -0.2
		iS	47 32.00
ZSP	0.09	352 iP	47 32.40 0.1
PCC	0.37	198 iP	47 37.70 -0.1
MHC	0.70	137 iPc	47 44.10 -0.2
		iS	47 54.70
ARN	0.76	132 eP	47 44.70 -0.7
NWRM	0.79	320 iPc	47 45.00 -1.1
GCC	0.85	167 iPd	47 46.20 -0.9
SAO	1.26	150 iPd	47 51.80 -2.4
CMB	1.48	82 ePc	47 55.70 -2.1
		iS	48 15.70
LLA	1.61	140 ePc	47 57.60 -2.0
PRS	1.67	155 ePc	47 58.40 -2.1
ORV	1.79	19 eP	47 59.80 -2.5
FRI	2.19	112 eP	48 06.10 -1.9
PHAM	2.50	143 eP	48 10.80 -1.6
KVN	3.46	69 eP	48 24.70 -1.6

16 obs. associated

AUG 25, 1990 11h 47m 31.24±0.17s
5.792 N ± 3.5km 77.504 W ± 3.5km
DEPTH = 10.0km (geophysicist)
5.6mb (66 obs.) 5.2Msz (11 obs.)
NEAR WEST COAST OF COLOMBIA (102)
Ms 4.9 (BRK).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 135, 28C
Centroid Location:
Origin Time 11:47:40.4 0.7
Lat 6.26N 0.07 Lon 77.63W 0.06
Dep 16.8 3.4 Half-duration 2.0
Moment Tensor: Scale 10+17 Nm
Mrr=-1.50 0.09 Mtt=-0.45 0.08
Mff=-1.05 0.12 Mrt=0.63 0.27
Mrf=-2.25 0.50 Mtf=-0.54 0.09
Principal Axes:
T Vol= 3.00 Plq=57 Azm= 65
N -0.63 14 178
P -2.37 29 276
Best Double Couple: Mo=2.7+10+17
NP1: Strike= 40 Dip=20 Slip= 134
NP2: 174 76 76

BOG	3.62	109 eP	48 34.00 5.2X
		iS	49 12.00
UPA	3.75	328 iPc	48 28.00 -2.5
	1.0s	650.00nm	
		iS	49 17.50
DVD	5.57	298 ePd	48 54.00 -2.2
QUR	6.01	190 eP	49 04.70 1.9
GCP	6.03	190 eP	49 04.10 0.9
ANGL	6.14	180 eP	49 03.70 -1.0
TOV	8.61	62 e(P)	49 38.50 -0.4
GCM	13.94	345 eP	51 01.80 10.7X
TPX	17.10	303 (P)	51 34.00 2.0
OXX	21.90	302 (P)	52 29.00 2.3
ZOBO	23.00	157 P	52 43.00 -2.9
LFB	24.05	157 P	52 47.00 -1.1
		LR	58 25.00
IIT	24.16	305 (P)	52 54.00 5.0X
CNCB	24.35	157 P	52 51.20 0.0
CCH	25.62	154 P	53 01.50 -1.5
IJJ	25.68	305 (P)	53 07.00 3.2X
MRX	26.87	303 (P)	53 18.00 3.8X
SIV	27.07	143 iPd	53 12.20 -3.9X
JSC	28.56	353 P	53 29.70 0.3
LHS	28.71	354 P	53 30.00 -0.7
RSCP	30.58	347 P	53 47.00 -0.5
BLA	31.39	356 eP	53 56.00 1.4
	0.9s	34.45nm	5.3mb

25d 12h

SFI 85.56 46 P 00 12.50 1.4
HFS 85.62 30 eP 00 11.30 0.3
1.2s 42.60nm 5.5mb
CRE 85.65 47 P 00 11.50 -0.2
VVI 85.83 44 P 00 12.00 -0.5
CLL 85.84 39 iP 00 12.60 0.3
1.6s 80.00nm 5.6mb
WET 85.92 41 iPc 00 13.10 0.3
1.4s 178.00nm 6.0mb
BHG 86.02 43 eP 00 13.50 0.2
1.4s 113.00nm 5.8mb
FVI 86.03 44 P 00 13.30 -0.1
MNS 86.28 48 P 00 16.00 1.2
RMP 86.34 49 P 00 16.50 1.5
RDP 86.35 49 P 00 17.00 1.8
KHC 86.37 41 iPc 00 15.50 0.4
1.3s 60.00nm 5.6mb
Z 18s 0.50um 5.0msz
E 17s 0.30um
BRG 86.47 39 eP 00 15.40 -0.1
1.2s 64.00nm 5.7mb
i 00 17.40 6kmX
00 24.70
BSD 86.68 35 iPd 00 18.10 1.8
0.8s 2.30nm 4.4mb X
TRI 86.79 45 iPc 00 17.00 -0.1
AQU 86.81 48 P 00 18.30 0.9
KMR 86.83 42 eP 00 17.00 -0.3
VOY 86.85 44 eP 00 17.60 0.1
TRO 86.85 20 eP 00 18.00 1.0
AZI 86.87 48 P 00 18.00 0.4
PRU 86.93 40 ePc 00 17.50 -0.2
Z 22s 0.70um 5.0msz
e 00 19.80 7kmX
S 10 54.00
CEY 87.24 44 eP 00 19.80 0.4
LJU 87.29 44 eP 00 19.00 -0.6
FAI 87.47 53 P 00 24.00 3.4X
UPP 87.61 30 iP 00 19.80 -0.9
VBY 87.85 45 eP 00 24.50 2.3
KSP 87.95 39 eP 00 23.00 0.4
1.1s 33.00nm 5.6mb
id 00 25.00
VKA 88.27 42 eP 00 26.00 1.8
PTJ 88.29 44 eP 00 23.50 -1.0
ZAG 88.32 44 eP 00 26.80 2.3
SGO 88.41 50 P 00 26.20 1.2
SOP 88.50 42 eP 00 29.00 3.7X
MGR 88.64 50 P 00 25.80 -0.4
ZST 88.79 42 eP 00 27.00 0.3
e 31 47.10
TDS 89.30 50 P 00 29.50 0.2
SRO 89.65 42 eP 00 32.20 1.4
e 31 31.70
SOD 90.09 22 iP 00 33.40 0.9
KRA 90.37 40 eP 00 35.50 1.4
1.4s 100.00nm 5.9mb
Z 18s 1.00um 5.3msz
e 00 46.30
LCI 90.44 50 P 00 21.50 -13.1X
SPC 90.71 41 eP 00 38.30 2.4
e 31 32.20
NUR 90.95 29 eP 00 37.00 0.5
0.9s 30.40nm 5.6mb
SUF 91.10 27 eP 00 38.00 0.8
BZS 92.25 44 eP 00 43.00 0.2
OHR 92.46 48 eP 00 45.50 1.5
1.4s 93.00nm 6.0mb
SKO 92.78 48 iPc 00 46.50 1.1
1.3s 51.00nm 5.8mb
VAY 93.74 48 eP 00 51.80 2.1
MLR 95.25 43 ePc 00 58.50 1.7
BCAO 95.55 85 iPc 00 58.40 -0.2
0.6s 6.00nm 5.2mb
i 01 21.10 83kmX
BBTK 101.62 48 ePd iff 01 40.00 14.3X
MAT 126.24 324 (PKP) 06 35.00 -1.3
0.9s 6.72nm
CN2 126.46 339 PKP 06 35.30 -1.1
Z 20s 0.40um 5.1msz
WMO 128.84 14 PKP 06 41.00 -0.1
Z 20s 0.50um 5.2msz
PP 08 48.00
eSKKS 15 37.00
SS 26 04.00

SNY 128.85 340 ePKP 06 39.80 -1.2
Z 20s 0.70um 5.3msz
QUE 130.60 42 ePKP 06 43.50 -1.5
e(S) 10 10.00
BJI 132.68 346 ePKP 06 46.50 -1.8
HHC 132.85 351 PKP 06 49.40 0.6
GTA 134.96 3 ePKP 06 51.60 -1.3
Z 20s 0.60um 5.3msz
STK 135.20 230 ePKP 06 52.80 -0.6
0.9s 5.00nm
TIY 135.74 349 ePKP 06 55.20 0.8
LZH 138.32 358 ePKP 06 58.00 -1.4
Z 22s 0.80um 5.4msz
SSE 139.20 335 PKPc 07 00.80 -0.1
Z 20s 0.50um 5.3msz
NJ2 139.27 338 PKPd 07 00.80 -0.2
WHN 142.13 343 ePKP 07 01.00 -5.2X
CD2 143.49 358 PKP 07 05.60 -3.0X
ASPA 144.95 236 iPKPd 07 07.60 -3.6X
1.1s 93.00nm
WB5 146.01 243 ePKP 07 10.60 -2.5
WRA 146.01 243 PKPc 07 09.50 -3.6X
0.9s 37.20nm
HYB 146.97 45 iPKPd 07 16.30 1.6X
1.2s 106.10nm
GYA 147.69 353 iPKPd 07 16.40 0.6
GBA 148.53 52 PKPc 07 15.00 -2.2
1.0s 13.10nm
KOD 150.42 58 ePKP 07 21.70 1.2
QIZ 154.30 344 ePKP 07 25.00 -0.6
S.D. = 1.0 on 257 of 279 obs.

& AUG 25, 1990 12h 08m 57.90s
37.043 N 121.895 W
DEPTH = 8.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 3.6 (BRK).
Mo=2.0*10**14 Nm (BRK). Felt
(IV) at Capitola, New Almoden
and Santa Cruz, (III) at Scotts
Volley and (II) at Aptos.

GCC 0.08 261 iPc 08 59.80 -0.3
MHC 0.36 34 iP 09 05.40 0.1
ARN 0.42 43 iPc 09 06.30 -0.1
SAO 0.46 127 iPc 09 06.30 -0.8
PCC 0.60 320 ePc 09 09.00 -0.9
PRS 0.83 149 iPc 09 13.50 -0.6
LLA 0.87 119 iPc 09 14.00 -0.9
BKS 0.88 342 iP 09 14.60 -0.3
iS 09 27.10
BRK 0.88 341 iPd 09 14.40 -0.5
eS 09 27.10
ZSP 0.95 342 iP 09 16.20 0.1
eS 09 29.70
PRI 1.34 132 ePd 09 22.40 -0.4
CMB 1.56 50 ePc 09 25.00 -1.0
eS 09 44.50
NWRM 1.62 331 eP 09 25.50 -1.2
PHAM 1.71 135 eP 09 26.50 -1.6
FRI 1.75 91 eP 09 27.10 -1.6
BCH 2.36 141 eP 09 35.50 -2.2
ORV 2.53 7 eP 09 39.00 -0.9
KVN 3.60 55 eP 09 54.60 -0.8
18 obs. associated

AUG 25, 1990 12h 25m 04.97±0.23s
40.156 N ± 5.7km 63.152 E ± 4.6km
DEPTH = 33.0km (normal)
4.7mb (32 obs.)

UZBEK SSR (339)
MAIO 4.81 218 iPnc 26 17.50 0.5
0.7s 95.30nm
eSn 27 47.00
QUE 10.42 162 eP 27 42.40 7.1X
NDI 16.27 130 eP 28 51.50 -1.1
eS 31 41.00
GKN 21.47 118 P 29 53.00 0.2
KKN 22.04 117 P 29 58.40 -0.2
0.6s 28.00nm 4.9mb
PKI 22.27 117 P 30 01.40 0.4
0.6s 25.00nm 4.8mb
GUN 22.38 116 P 30 02.20 0.1
CMP 28.28 293 ePc 31 02.00 4.8X
NUR 31.24 324 eP 31 23.00 -0.3
0.6s 9.10nm 4.8mb

SUF 31.56 328 i 31 27.10
KRA 31.66 303 eP 31 26.00 -0.1
e 31 27.10 -0.1
e 31 30.20
SOD 33.84 336 eP 31 46.00 0.1
KSP 34.00 304 eP 31 47.30 -0.2
ic 31 51.00
PRU 35.15 303 P 31 58.10 0.8
e 32 01.60
BRG 35.49 304 iP 32 01.00 0.8
1.0s 20.00nm 5.0mb
i 32 04.40
KHC 35.83 301 iP 32 05.00 1.8
MGR 36.04 286 P 32 09.00 4.0X
CLL 36.07 305 iPd 32 05.50 0.4
1.1s 20.00nm 5.0mb
HFS 36.35 320 eP 32 06.60 -0.8
0.5s 5.90nm 4.7mb
FVI 36.65 297 P 32 10.00 0.0
GRF 37.31 302 eP 32 17.00 1.4
SQTA 37.62 298 eP 32 18.00 -0.4
1.0s 12.50nm 4.7mb
i 32 21.50
CRE 37.78 293 P 32 22.50 2.8
NAO 37.86 321 P 32 19.60 -0.5
0.9s 11.40nm 4.7mb
PGD 37.89 293 P 32 22.50 1.8
SAL 38.37 296 P 32 28.50 4.0X
BDI 38.64 294 P 32 26.50 -0.4
PIL 38.77 293 P 32 31.00 3.1X
CDF 40.05 301 eP 32 38.10 -0.5
PGF 40.14 292 eP 32 39.10 -0.3
0.9s 14.75nm 4.7mb
BSF 40.47 300 eP 32 41.40 -0.7
0.7s 9.90nm 4.7mb
HAU 40.73 301 eP 32 43.70 -0.4
DOI 40.88 295 P 32 47.50 2.1
SBF 40.90 294 eP 32 45.20 -0.4
0.7s 12.15nm 4.7mb
LPG 40.98 297 eP 32 46.90 0.4
0.8s 14.80nm 4.8mb
LPL 40.99 297 eP 32 46.80 0.3
0.7s 8.80nm 4.6mb
BNI 41.14 296 P 32 48.00 0.4
FRF 41.54 294 eP 32 50.40 -0.3
0.6s 6.30nm 4.5mb
LBF 42.52 300 eP 32 58.30 -0.5
0.8s 6.70nm 4.4mb
LOR 42.53 300 eP 32 58.10 -0.8
0.8s 6.05nm 4.4mb
SMF 42.69 299 eP 32 59.80 -0.3
0.9s 16.40nm 4.8mb
SSF 42.81 300 eP 33 00.70 -0.4
0.8s 6.70nm 4.4mb
AVF 42.98 299 eP 33 02.10 -0.4
0.8s 11.40nm 4.7mb
BGF 43.37 299 eP 33 05.30 -0.4
0.7s 4.40nm 4.3mb
MAF 43.65 299 eP 33 07.20 -0.7
0.8s 11.40nm 4.7mb
TCF 43.87 299 eP 33 09.90 0.2
0.8s 14.80nm 4.8mb
CAF 44.33 297 eP 33 13.40 -0.1
LSF 44.33 299 eP 33 13.00 -0.5
0.7s 6.60nm 4.6mb
RJF 44.60 298 eP 33 15.40 -0.2
LDF 44.83 303 eP 33 16.70 -0.8
0.7s 8.80nm 4.8mb
FLN 45.02 303 eP 33 18.10 -0.9
LFF 45.23 298 eP 33 20.90 0.3
0.7s 12.15nm 4.9mb
EKA 45.32 313 Pd 33 21.10 -0.2
0.7s 6.90nm 4.7mb
GRR 45.36 303 eP 33 20.60 -1.0
0.8s 8.05nm 4.7mb
MFF 45.36 300 eP 33 20.70 -0.9
BCAO 53.61 240 iPc 34 25.10 -0.3
0.6s 7.00nm 4.8mb
MAT 57.32 68 (P) 34 43.00 -9.0X
KRI 64.72 216 iPd 35 42.20 -0.1
BUL 68.08 215 iPc 36 03.40 -0.3
KIC 69.06 260 P 36 09.30 -0.5
TIC 69.09 261 P 36 09.50 -0.5
LIC 69.37 260 P 36 11.10 -0.5
INK 71.14 6 eP 36 22.00 0.4
SCH 76.17 333 eP 36 51.00 -0.2

YKA	77.68	359 eP	36 58.90	-0.4
FFC	84.64	351 eP	37 37.00	0.9
WB5	89.13	117 eP	37 58.90	0.4
WRA	89.16	117 Pd	37 59.50	0.9
ASPA	91.42	120 eP	38 09.30	0.3
S.D.	0.8	on 63 of 69 obs.		
? AUG 25, 1990 12h 29m 57.43±1.03s				
39.178 N ± 9.3km 27.894 E ± 10.8km				
DEPTH = 10.0km (geophysicist)				
TURKEY	(366)			
DST	0.71	53 ePg	30 11.60	0.1
Izm	0.92	213 iPg	30 15.00	-0.1
EDC	1.17	359 iPn	30 19.00	-0.2
BNT	1.18	1 ePn	30 25.00	5.6X
EZN	1.38	299 ePn	30 22.80	0.2
ALT	1.73	93 ePn	30 32.00	4.2X
S.D.	0.3	on 4 of 6 obs.		
? AUG 25, 1990 12h 53m 34.79±5.03s				
31.821 S ± 22.0km 72.295 W ± 39.7km				
DEPTH = 33.0km (normal)				
OFF COAST OF CENTRAL CHILE	(134)			
ROCH	1.58	137 eP	54 02.50	1.5
JACH	1.68	121 eP	54 01.00	-1.4
LCCN	1.76	160 eP	54 03.00	-0.4
PEL	1.89	135 eP	54 04.10	-1.4
TACH	2.16	148 eP	54 09.50	0.4
LNV	2.25	161 eP	54 10.00	-0.5
FCH	2.26	132 iPd	54 10.70	-0.2
PCH	2.34	141 eP	54 13.50	1.7
RTBS	2.43	87 ePc	54 13.00	0.0
CHCH	2.52	147 eP	54 14.30	-0.1
RTCB	3.08	85 eP	54 21.10	-0.1
ZON	3.09	86 eP	54 23.00	0.5
RTCV	3.20	92 e(P)	54 26.00	2.1X
RTLL	3.30	82 eS	54 25.20	-0.2
CFA	3.46	88 ePd	54 27.90	0.1
S.D.	0.9	on 14 of 15 obs.		
* AUG 25, 1990 13h 07m 09.61±0.60s				
40.207 N ± 8.4km 63.054 E ± 10.6km				
DEPTH = 33.0km (normal)				
4.1mb (9 obs.)				
UZBEK SSR	(339)			
MAIO	4.80	217 iPc	08 21.00	-0.6
SUF	31.47	328 eP	13 29.00	-1.0
SOD	33.76	336 eP	13 50.00	0.1
KEV	35.08	339 eP	13 50.00	-11.2X
CLL	35.98	305 eP	14 12.00	3.0X
HFS	36.26	320 eP	14 10.90	-0.4
NAD	37.78	321 P	14 23.40	-0.6
LPG	40.89	297 eP	14 51.20	0.8
LPL	40.90	297 eP	14 51.00	0.6
SMF	42.60	299 eP	15 04.20	0.2
AVF	42.89	299 eP	15 06.40	0.0
MAF	43.56	299 eP	15 12.40	0.6
TCF	43.78	299 eP	15 14.10	0.5
EKA	45.23	313 Pc	15 24.60	-0.6
WB5	89.22	117 eP	20 03.70	0.2
WRA	89.25	117 Pc	20 03.80	0.2
S.D.	0.6	on 14 of 16 obs.		
? AUG 25, 1990 14h 08m 04.66±2.21s				
38.306 N ± 25.7km 15.054 E ± 6.9km				
DEPTH = 10.0km (geophysicist)				
SICILY	(398)			
ATN	0.35	114 P	08 12.10	0.2
MNO	0.47	217 P	08 14.20	0.0
SOI	0.82	106 P	08 20.40	-0.2
GIB	0.87	249 P	08 21.50	0.1
S.D.	0.2	on 4 of 4 obs.		
AUG 25, 1990 14h 12m 33.88±0.24s				
19.993 S ± 8.4km 172.963 W ± 4.4km				
DEPTH = 50.6km (5 depth shots)				
5.1mb (28 obs.)				
TONGA ISLANDS REGION	(174)			
SYA	8.33	282 eP	14 35.10	0.4
MBU	8.44	289 eP	14 37.10	0.7
RAR	12.41	98 P	15 23.00	-7.3X
DZM	19.33	260 iPd	16 56.60	-1.5
NOZ	20.13	201 eP	17 12.90	6.6X
PAE	22.25	88 iP	17 28.50	0.6
PPT	22.27	88 iP	17 28.80	0.7
PPN	22.41	88 iP	17 30.20	0.7
PGZ	22.52	202 eP	17 35.50	5.1X
TVO	22.54	88 iP	17 31.60	0.8

25d 14h

ENN 2.0s 78.00nm 149.28 1 ePKP 32 18.50 4.7X
 1.0s 39.00nm
 MEM 149.44 1 PKP 32 18.40 4.3X
 SNF 149.47 3 PKP 32 19.60 5.5X
 PRU 149.48 350 iPKPd 32 19.60 5.4X
 1.4s 30.00nm
 HOF 149.50 354 iPKPc 32 19.90 5.6X
 TNS 149.81 358 ePKPd 32 20.60 5.8X
 DOU 149.90 3 PKPc 32 20.60 5.8X
 MLR 150.16 333 ePKPc 32 21.00 5.4X
 ABH 150.18 359 ePKP 32 21.07 5.8X
 GRF 150.18 355 ePKPd 32 22.50 6.3X
 KHC 150.46 351 iPKPd 32 22.00 6.2X
 1.3s 24.00nm
 WET 150.54 352 iPKPc 32 22.60 6.7X
 1.7s 48.00nm
 FLN 150.67 10 ePKP 32 21.20 5.2X
 1.0s 36.00nm
 ZST 150.71 346 ePKP 32 22.80 6.7X
 CMP 150.72 333 ePKPc 32 05.00 -11.3X
 SRO 150.78 344 iPKP 32 22.50 6.3X
 LDF 150.89 10 ePKP 32 21.60 5.2X
 1.1s 43.95nm
 BUD 150.89 343 ePKP 32 23.00 6.6X
 GRR 150.96 11 ePKP 32 22.00 5.5X
 1.0s 28.00nm
 LPF 151.27 11 ePKP 32 22.70 5.8X
 1.0s 36.00nm
 SOP 151.32 347 ePKP 32 25.60 8.6X
 CDF 151.65 360 ePKP 32 23.10 5.5X
 1.0s 16.00nm
 FUR 151.69 354 iPKPc 32 25.30 7.7X
 BHG 151.94 352 iPKPc 32 25.60 7.6X
 HAU 152.05 1 ePKP 32 24.90 6.7X
 1.1s 24.40nm
 BSF 152.23 0 ePKP 32 25.10 6.6X
 SOTA 152.63 354 ePKP 32 26.50 7.4X
 1.4s 25.00nm
 LOR 152.67 5 ePKP 32 26.10 7.1X
 1.0s 17.00nm
 MFF 152.81 11 ePKP 32 26.20 7.0X
 SSF 152.85 5 ePKP 32 26.60 7.3X
 1.0s 23.00nm
 LBF 152.96 5 ePKP 32 26.80 7.3X
 1.2s 17.85nm
 OGA 153.00 354 iPKPc 32 28.50 8.7X
 FVI 153.05 351 PKP 32 26.00 6.5X
 AVF 153.10 6 ePKP 32 26.80 7.2X
 1.0s 9.00nm
 BGF 153.28 6 ePKP 32 27.40 7.5X
 SMF 153.29 5 ePKP 32 27.20 7.3X
 LJU 153.30 348 e(PKP) 32 21.00 1.1X
 1.1s 32 28.00
 LSF 153.42 9 ePKP 32 27.30 7.2X
 VOY 153.42 349 e(PKP) 32 20.60 0.4X
 1.1s 32 27.80
 TCF 153.48 8 ePKP 32 27.70 7.5X
 1.1s 8.55nm
 MAF 153.58 7 ePKP 32 28.30 7.9X
 1.1s 12.20nm
 CEY 153.61 348 e(PKP) 32 20.50 0.1X
 1.1s 32 29.00
 VBY 153.67 347 e(PKP) 32 29.80 9.3X
 MDI 154.19 356 PKP 32 27.50 6.4X
 RJF 154.35 9 ePKP 32 29.60 8.2X
 S.D. = 1.1 on 84 of 147 obs.
 * AUG 25, 1990 14h 25m 57.33 ± 1.00s
 29.789 N ± 8.0km 142.383 E ± 30.2km
 DEPTH = 33.0km (normal)
 4.4mb (4 obs.)
 SOUTH OF HONSHU, JAPAN (211)
 KAKJ 6.66 344 P 27 36.10 0.7
 IIDJ 6.81 328 P 27 41.00 3.4X
 S 28 58.60
 CHJJ 6.86 336 P 27 38.40 0.2
 MAT 7.59 334 iP 27 48.30 -0.1
 0.7s 17.12nm 5.2mb X
 eS 29 11.00
 MTMJ 7.79 332 P 27 52.50 1.2
 NIJJ 7.95 340 P 27 53.50 0.1
 YAMJ 8.59 348 eP 28 00.90 -1.4
 eS 29 33.50

OFUJ 9.29 357 eP 28 09.20 -2.8
 eS 29 47.20
 CHG 40.86 265 eP 33 36.30 -1.6
 WB5 49.98 190 eP 34 50.20 -0.2
 WRA 50.05 190 Pd 34 50.70 -0.2
 0.7s 3.40nm 4.5mb
 ASPA 53.77 190 eP 35 19.10 0.3
 0.5s 5.00nm 4.8mb
 FORR 61.82 194 iPd 36 14.50 -0.8
 0.4s 23.00nm 5.7mb X
 NUR 76.74 333 eP 37 48.00 1.3
 HFS 81.03 337 eP 38 11.70 1.7
 0.5s 0.90nm 4.0mb
 NAO 81.47 338 P 38 14.00 1.7
 0.8s 2.40nm 4.3mb
 ZOBO 148.98 71 PKP 45 48.20 7.6X
 LR 58 34.00
 S.D. = 1.4 on 15 of 17 obs.
 ? AUG 25, 1990 14h 29m 59.51 ± 1.81s
 31.238 S ± 39.4km 68.027 W ± 18.3km
 DEPTH = 110.0km (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA (137)
 RTCB 0.25 175 iPd 30 15.50 -0.2
 RTLL 0.32 107 iPd 30 15.60 0.0
 CFA 0.62 126 ePc 30 17.70 0.2
 RTCV 0.67 158 ePc 30 17.80 -0.1
 RTBS 0.68 232 eP 30 18.00 0.1
 S 30 32.00
 S.D. = 0.2 on 5 of 5 obs.
 AUG 25, 1990 14h 50m 12.32 ± 0.26s
 40.205 N ± 7.8km 63.129 E ± 5.5km
 DEPTH = 33.0km (normal)
 4.4mb (21 obs.)
 UZBEK SSR (339)
 MAID 4.84 217 iPd 51 24.20 -0.5
 0.9s 6.39nm
 eSn 03 40.00
 GKN 21.51 118 P 54 59.80 -0.8
 DMN 22.08 118 P 55 06.40 0.0
 1.0s 86.00nm 5.1mb
 KKN 22.08 117 P 55 06.80 0.4
 0.8s 40.00nm 4.9mb
 PKI 22.31 118 P 55 08.40 -0.4
 0.8s 40.00nm 4.9mb
 GUN 22.41 116 P 55 09.40 -0.4
 MLR 27.60 293 ePc 56 00.00 1.5
 SHL 28.06 113 iP 56 06.50 3.5X
 SUF 31.51 328 iP 56 33.00 0.0
 0.5s 3.00nm 4.4mb
 KRA 31.62 303 eP 56 34.10 -0.1
 KSP 33.96 304 eP 56 54.70 0.2
 e 56 58.20
 PRU 35.10 303 eP 57 04.70 0.4
 BRG 35.45 304 iP 57 17.60 10.4X
 0.8s 14.00nm
 KHC 35.79 301 P 57 11.50 1.3
 CLL 36.03 305 eP 57 12.00 -0.1
 1.2s 10.00nm 4.6mb
 HFS 36.30 320 eP 57 13.40 -0.9
 0.5s 2.00nm 4.3mb
 GRF 37.27 302 ePc 57 24.30 1.7
 NAO 37.81 321 P 57 26.20 -0.8
 0.6s 2.70nm 4.3mb
 PGF 40.11 292 eP 57 47.30 0.8
 BSF 40.43 300 eP 57 48.60 -0.5
 0.6s 4.50nm 4.4mb
 HAU 40.69 301 eP 57 50.70 -0.4
 LPG 40.94 297 eP 57 53.80 0.3
 0.8s 5.35nm 4.3mb
 LPL 40.95 297 eP 57 53.80 0.3
 0.5s 3.65nm 4.4mb
 LBF 42.48 299 eP 58 05.00 -0.8
 LOR 42.49 300 eP 58 05.10 -0.8
 SMF 42.65 299 eP 58 06.90 -0.3
 0.8s 5.35nm 4.3mb
 SSF 42.77 300 eP 58 07.70 -0.5
 0.8s 3.35nm 4.1mb
 AVF 42.94 299 eP 58 09.20 -0.3
 0.8s 5.35nm 4.3mb
 BGF 43.34 299 eP 58 12.20 -0.5
 MAF 43.61 299 eP 58 15.10 0.2
 0.8s 6.70nm 4.5mb
 TCF 43.83 299 eP 58 16.80 0.0

CAF 0.7s 4.95nm 4.4mb
 LSF 44.29 297 eP 58 21.00 0.4
 RJF 44.29 299 eP 58 20.00 -0.5
 LDF 44.56 298 eP 58 23.10 0.4
 44.79 303 eP 58 23.80 -0.7
 0.7s 4.40nm 4.4mb
 LPO 44.96 297 eP 58 25.80 -0.1
 FLN 44.98 303 eP 58 25.20 -0.8
 0.7s 6.60nm 4.6mb
 LFF 45.19 297 eP 58 27.90 0.2
 0.6s 4.50nm 4.5mb
 EKA 45.28 313 Pd 58 28.10 -0.2
 1.3s 9.80nm 4.6mb
 YKA 77.63 359 eP 02 06.40 0.0
 0.8s 3.80nm 4.5mb
 WB5 89.17 117 eP 03 06.20 0.2
 WRA 89.20 117 P 03 08.00 1.9
 0.7s 2.10nm 4.6mb
 S.D. = 0.7 on 40 of 42 obs.
 AUG 25, 1990 14h 57m 57.98 ± 0.37s
 35.860 N ± 3.6km 28.087 E ± 2.9km
 DEPTH = 50.2 ± 4.9 km
 4.7mb (42 obs.) 3.6Msz (4 obs.)
 EASTERN MEDITERRANEAN SEA (371)
 MD 4.4 (HLW).
 KAP 0.80 248 iPd 58 18.50 5.3X
 KSL 1.24 78 iPd 58 21.50 2.3
 ELL 1.72 58 iPd 58 28.00 2.5X
 SMG 2.10 332 iPd 58 32.00 0.7
 NPS 2.10 254 iPd 58 35.20 3.8X
 APE 2.39 301 iPd 58 37.80 2.3
 IZM 2.62 346 iPd 58 38.50 -0.2
 KHL 2.71 25 iPd 58 40.00 -0.1
 VAM 3.20 263 eP 58 50.00 3.0X
 ALT 3.57 26 iPd 58 53.70 1.3
 PPCY 3.61 104 ePd 58 53.80 1.0
 eSn 59 30.00
 PRK 3.67 337 iPd 58 54.00 0.3
 DST 3.76 6 iPd 58 54.50 -0.5
 ATH 4.09 302 eP 59 02.50 3.0X
 EZN 4.20 341 iPd 59 00.70 -0.3
 VLI 4.25 283 iPd 59 04.50 2.7X
 CSS 4.38 100 ePd 59 04.00 0.4
 ePn 59 04.20
 eSn 59 52.30
 EDC 4.48 358 iPd 59 04.00 -1.0
 GPA 4.76 21 iPd 59 09.30 0.3
 FAM 4.91 98 eP 59 12.00 0.9
 ITM 5.13 287 eP 59 18.60 4.3X
 ISK 5.25 8 ePd 59 17.00 1.1
 BBTK 5.43 42 eP 59 04.00 -14.5X
 e 59 19.00
 RDO 5.64 340 iPd 59 21.50 0.1
 PLG 5.80 322 eP 59 24.80 1.1
 EVR 5.86 303 iPd 59 27.60 3.1X
 KDZ 6.15 341 iPd 59 18.00 -10.5X
 Sg 00 34.00
 RZN 6.39 337 iPd 59 32.00 0.0
 eS 00 34.00
 VLS 6.43 293 eP 59 37.20 4.8X
 DIM 6.49 343 iPd 59 33.00 -0.3
 Sg 00 42.00
 ADI 6.52 113 eP 59 32.40 -1.3
 BHL 6.52 105 Pn 59 31.00 -2.8X
 Sn 00 36.00
 HLW 6.58 155 ePd 59 34.50 0.0
 eS 00 45.00
 MMB 6.66 331 iPd 59 36.00 0.4
 Sg 00 51.00
 KZN 6.67 314 eP 59 38.20 2.3
 JMB 6.70 350 iPd 59 36.00 -0.2
 PLD 6.77 338 iPd 59 38.00 0.8
 Sg 00 51.00
 ZNT 6.80 120 eP 59 36.10 -1.6
 eS 00 48.40
 VAY 6.96 323 iPd 59 41.50 1.7
 MML 6.97 117 eP 59 38.60 -1.4
 KAS 7.07 37 eP 59 48.00 6.5X
 JVI 7.20 121 eP 59 41.60 -1.6
 SALJ 7.39 119 P 59 44.90 -1.0
 GAZ 7.46 77 iPd 59 46.70 -0.2
 KFNJ 7.47 120 P 59 46.10 -0.8
 MASJ 7.57 121 P 59 57.50 9.0X
 MKRJ 7.62 122 P 59 48.00 -1.1
 PVL 7.65 345 iPd 59 48.00 -1.4

[illegible]

25d 15h

MARIANA ISLANDS (216)

GUA 4.03 193 eP 28 26.70 -0.1
 eS 29 13.90
 PMG 26.75 177 eP 32 49.00 0.0
 RMO 43.80 176 iPc 35 13.20 -0.5
 DZM 44.17 152 iPd 35 17.60 0.8
 MBL 46.11 215 iPc 35 32.60 0.5
 WARB 47.26 204 eP 35 42.00 1.0
 0.3s 10.00nm 4.8mb
 STK 49.25 185 eP 35 55.80 -0.4
 0.7s 5.00nm 4.2mb
 NANU 49.65 218 iPd 36 00.40 1.0
 0.4s 11.00nm 4.8mb
 FORR 51.00 200 eP 36 09.00 -0.5
 COOL 53.65 207 iPd 36 28.40 -0.8
 MRWA 54.66 212 iPd 36 46.20 9.7X
 BAL 55.44 211 iPd 36 41.70 -0.4
 MUN 56.81 210 iPd 36 51.30 -0.5
 MBC 74.28 14 eP 38 42.50 -0.1
 0.5s 7.00nm 4.6mb

S.D. = 0.7 on 13 of 14 obs.

AUG 25, 1990 15h 47m 53.89±0.10s
 0.525 N ± 2.9km 126.004 E ± 3.3km
 DEPTH = 11.3km (geophysicist)
 6.0mb (73 obs.) 6.1Msz (35 obs.)

MOLUCCA PASSAGE (266)

Ms 6.1 (BRK). Mo=8.0±10±18 Nm
 (PPT). Depth from broadband
 displacement seismograms.

FAULT PLANE SOLUTION: P-Waves

NP1: Strike=215 Dip=52 Slip= 90

NP2: 35 38 90

Principal Axes:

T P1g=83 Azm=125

P -7 305

Comment: The focal mechanism is

poorly controlled and

corresponds to reverse

faulting. The preferred fault

plane is NP2.

RADIATED ENERGY

No. of sto: 8 Focal mech. F

Energy 6.2±1.3×10¹³ Nm

MOMENT TENSOR SOLUTION

Dep 48 No. of sto: 11

Moment Tensor; Scale 10¹⁸ Nm

Mrr= 3.01 Mtt=-0.47

Mff=-2.54 Mrt=-0.96

Mrf= 1.56 Mtf=-2.03

Principal axes:

T Vol= 3.94 P1g=62 Azm=223

N -0.05 27 25

P -3.89 7 119

Best Double Couple: Mo=3.9×10¹⁸ Nm

NP1: Strike=236 Dip=44 Slip= 130

NP2: 7 58 58

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 13S, 32C M.W.: 11S, 21C

Centroid Location:

Origin Time 15:48: 3.4 0.2

Lat 0.75N 0.02 Lon 126.18E 0.01

Dep 38.7 0.8 Half-duration 6.0

Moment Tensor; Scale 10¹⁸ Nm

Mrr= 3.53 0.05 Mtt= 0.14 0.04

Mff=-3.67 0.05 Mrt=-1.25 0.10

Mrf= 0.41 0.09 Mtf=-0.98 0.04

Principal Axes:

T Vol= 4.01 P1g=70 Azm=196

N -0.10 20 13

P -3.91 1 103

Best Double Couple: Mo=4.0×10¹⁸ Nm

NP1: Strike=212 Dip=47 Slip= 117

NP2: 355 49 63

MNI 1.54 306 ePd 48 25.50 4.2X

eS 48 47.00

ePS 18 24.80

eS 18 46.50

AAI 4.69 153 ePc 49 08.70 2.5X

eS 49 14.50

DAV 6.54 356 eP 49 35.00 2.6X

eS 51 15.90

MKS 8.73 229 iPc 50 07.00 4.0X

1.0s 4992.30nm 7.8mb X

TSM 8.81 295 ePc 50 08.10 4.1X
 0.4s 352.20nm 7.0mb X
 KKM 11.27 299 ePc 50 42.60 4.5X
 0.8s 297.00nm 6.7mb X
 MTN 14.20 160 iPd 51 16.70 -0.3
 TRT 15.71 238 iPd 51 40.20 3.4X
 1.5s 1325.90nm 5.9mb
 BAG 16.69 341 eP 51 51.20 1.6
 eS 54 52.00
 MNDI 18.76 111 eP 52 18.00 2.7X
 WBS 21.84 159 iPc 52 47.10 -1.3
 eS 56 46.00
 WRA 21.89 159 Pc 52 47.10 -1.8
 0.3s 19.50nm 5.0mb
 LAT 22.06 109 eP 52 51.00 0.5
 MBL 22.40 195 iPc 52 53.80 -0.1
 GUMO 22.68 54 eP 52 57.50 0.8
 PJG 22.68 54 eP 52 57.20 0.5
 GUA 22.69 54 eP 52 58.20 1.4
 0.8s 1241.79nm 6.5mb
 KGM 22.81 274 ePc 52 58.20 0.2
 PMG 23.19 116 eP 53 03.00 1.3
 QIZ 24.33 320 iPc 53 13.00 0.2
 0.8s 100.00nm 5.5mb
 N 10s 13.30um
 E 10s 12.20um
 PcP 56 52.50
 HKC 24.56 333 iP 53 15.90 1.0
 KLM 24.56 276 eP 53 16.00 1.0
 MCO 24.69 331 eP 53 16.90 0.6
 ANP 24.91 350 eP 53 18.00 -0.4
 eS 57 37.20
 NANU 25.15 203 iPd 53 21.40 0.8
 ASPA 25.22 163 iPc 53 20.90 -0.4
 1.0s 1729.00nm 6.7mb
 Z 20s 22.25um 5.7Msz
 eS 57 44.50
 eScS 04 15.20
 LR 07 33.40
 QZH 25.33 344 Pc 53 22.00 -0.3
 1.0s 900.00nm 6.4mb
 Z 24s 55.30um 6.0MszX
 N 24s 41.90um
 E 24s 37.80um
 S 57 42.00
 IPM 25.35 280 ePd 53 23.50 0.9
 0.8s 412.70nm 6.2mb
 e 56 58.00
 GZH 25.62 332 P 53 24.20 -0.8
 1.0s 800.00nm 6.4mb
 Z 20s 37.40um 5.9Msz
 N 14s 8.30um
 E 15s 17.00um
 S 57 45.00
 SS 58 10.00
 SNG 26.24 285 eP 53 31.10 0.2
 1.5s 705.56nm 6.1mb
 eS 57 00.80
 RAB 26.48 100 iPd- 53 34.00 0.8
 iS 58 04.00
 WARB 26.56 179 eP 53 34.10 0.3
 PSI 27.23 275 ePc 53 39.50 -0.5
 1.3s 1791.40nm 6.6mb
 TSI 27.66 277 ePd 53 46.00 2.1
 MEKA 27.95 195 iPc 53 45.60 -0.8
 0.8s 256.00nm 6.1mb
 CTA 28.46 137 iPc+ 53 50.10 -1.0
 0.9s 211.76nm 5.9mb
 iS 58 36.00
 CTAO 28.46 137 ePc 53 50.12 -1.0
 NNT 28.75 296 iPd 53 52.20 -1.5
 e 57 03.80
 LOE 29.25 306 iPc 53 56.50 -1.8
 i 57 06.00
 NST 29.71 302 iPd 54 03.00 0.6
 SSE 30.76 352 Pc 54 10.00 -1.4
 1.5s 100.00nm 5.5mb
 Z 20s 16.20um 5.7Msz
 N 19s 13.60um
 E 19s 9.60um
 PP 54 24.00
 SP 54 28.00
 S 59 00.00
 SS 00 40.00
 FORR 31.26 177 iPd 54 15.00 -0.9
 BDT 31.41 303 eP 54 14.80 -2.6X
 0.8s 171.20nm 6.0mb

COOL 31.59 188 iPc 54 17.50 -1.3
 GYA 31.85 326 iPc 54 20.80 -0.5
 Z 20s 16.20um 5.7Msz
 N 18s 20.30um
 E 18s 14.60um
 PcP 57 13.00
 WHN 31.87 341 Pc 54 21.00 -0.2
 1.5s 100.00nm 5.5mb
 Z 26s 19.30um 5.7MszX
 N 24s 37.80um
 E 13s 6.00um
 SP 54 37.00
 S 59 29.00
 NJ2 32.09 348 Pc 54 23.00 -0.2
 6.0s 1800.00nm 6.2mb X
 Z 24s 9.50um 5.4MszX
 N 15s 6.50um
 E 14s 2.80um
 S 59 30.00
 OLP 32.13 148 iPc 54 22.70 -0.9
 e 55 17.00 274kmX
 BAL 32.22 195 eP 54 23.40 -0.9
 0.9s 260.00nm 6.2mb
 CHG 32.24 306 ePd 54 23.90 -0.8
 1.0s 106.50nm 5.7mb
 eS 59 20.00
 CHTO 32.24 306 ePd 54 22.88 -1.8
 KL8 32.90 193 iPc 54 29.30 -1.0
 KMI 33.27 319 ePd 54 33.51 -0.3
 ePd 54 37.15 13kmX
 eS 59 49.77
 MUN 33.65 195 eP 54 36.00 -0.8
 NWA0 34.30 193 ePc 54 41.88 -0.5
 ePd 54 45.19 11kmX
 eS 00 54.00
 SHK 34.39 10 ePc 54 42.60 -0.5
 RMO 34.62 143 iPc 54 44.00 -1.3
 1.0s 216.00nm 6.0mb
 i 55 18.00 159kmX
 e 56 06.00
 HNR 35.14 107 eP 54 49.00 -0.8
 eS 00 18.00
 STK 35.42 157 iPc 54 51.40 -0.6
 1.0s 285.00nm 6.1mb
 iPP 56 10.20
 iS 00 21.30
 eScS 05 07.60
 TIA 36.47 348 P 54 59.60 -1.2
 6.0s 1500.00nm 6.0mb X
 Z 27s 18.80um 5.7MszX
 N 26s 30.80um
 SP 55 17.60
 S 00 38.00
 CD2 36.90 327 P 55 03.40 -1.2
 1.0s 200.00nm 5.9mb
 E 12s 5.50um
 PP 56 30.00
 CMS 36.93 151 eP 55 04.00 -0.8
 XAN 37.02 336 iPc 55 04.00 -1.5
 1.0s 400.00nm 6.1mb
 N 18s 14.80um
 E 17s 10.40um
 PP 55 19.00
 SP 55 24.00
 S 00 40.00
 SS 01 10.00
 ADE 37.23 163 iPc 55 07.50 0.2
 1.0s 420.00nm 6.2mb
 MAJO 37.56 16 iPc 55 08.43 -1.6
 ePd 55 11.57 11kmX
 eS 00 53.29
 MAT 37.56 16 eP 55 08.00 -2.0
 0.9s 247.90nm 6.0mb
 Z 20s 14.18um 5.8Msz
 eS 00 56.00
 BRS 37.80 139 iPd 55 20.00 7.9X
 i 56 52.00 511kmX
 i 56 58.00
 eS 01 28.00
 DL2 38.41 354 iPc 55 17.40 0.3
 1.0s 700.00nm 6.3mb
 Z 26s 11.30um 5.6MszX
 E 16s 7.90um
 SP 55 34.00
 S 01 00.00
 TIY 39.09 343 Pc 55 22.00 -0.9
 0.9s 200.00nm 5.8mb

Z	24s		26.00um		6.0MszX		eS	03	34.00		ARO	83.27	281	iP+	00	24.69	2.1			
N	19s		14.50um			HIA	48.86	354	iPc	56	40.88	-0.5	AFIF	83.31	294	iPd	00	24.30	1.6	
			SP	55	39.00				iS	03	42.44		KMTA	83.39	288	eP	00	24.60	1.2	
			S	01	14.00				e	04	33.92		SGH	83.47	281	iP	00	25.94	2.3	
COO	39.49	144	iPd	55	27.10	0.8	HYB	49.66	292	iPc	56	46.00	-2.0	DAF	83.58	282	P+	00	26.51	2.4
			e	57	05.00	552kmX		1.0s	480.00nm			6.4mb	GBR	83.64	281	iP	00	26.47	2.0	
BJI	40.35	348	ePc	55	32.85	-0.3	GBA	49.87	287	P	56	47.00	-2.6X	KSU	83.66	281	iP+	00	27.07	2.5X
	1.2s		30.00nm		4.9mb	X	POO	54.27	292	iPd	57	20.80	-1.9	HLD	83.68	282	iP+	00	27.14	2.6X
N	17s		7.04um					0.8s	89.55nm			5.8mb	SVW	83.89	29	eP	00	26.10	1.2	
E	24s		21.30um				NDI	54.39	306	iPc	57	21.00	-2.3X		0.9s	250.60nm			6.4mb	
			eP	55	36.32	12kmX		0.8s	70.90nm			5.7mb	TTA	84.03	27	eP	00	26.30	0.7	
			ePcP	57	36.16				eS	04	56.50			0.9s	113.60nm				6.1mb	
			e	57	58.34		MBU	54.68	111	eP	57	10.80	-14.9X	BKR	84.10	312	iPd	00	28.00	1.5
BFD	40.49	160	iPd	55	37.30	2.9X	SVA	54.71	113	ePc	57	24.90	-0.9		iS	10	45.00			
			e	57	08.00	490kmX	WMO	55.00	327	iPc	57	26.75	-0.9	UOSK	84.12	296	iPd	00	28.50	1.7
BWA	40.58	151	iPc	55	37.00	1.8							AFR	84.57	108	iP	00	30.80	1.8	
			e	01	28.80		Z	22s	23.90um			6.2Msz		1.2s	70.00nm				5.8mb	
LZH	40.97	332	ePc	55	38.63	0.1	E	18s	13.40um				PAE	84.76	108	iP	00	31.60	1.6	
	1.8s		640.00nm		6.0mb				ePpd	57	30.72	13kmX		1.2s	55.00nm				5.7mb	
Z	22s		31.00um		6.1Msz		MSZ	58.32	146	P	57	50.90	-0.2	PPT	84.76	108	iP	00	31.70	1.7
N	16s		15.50um				WLZ	59.43	136	P	57	58.90	-0.1		1.2s	55.00nm				5.7mb
E	16s		15.20um				THZ	59.61	141	P	57	58.90	-1.4	PPN	84.89	108	iP	00	32.40	1.8
			PP	55	51.00		LTZ	59.77	142	P	57	59.90	-1.4		1.2s	55.00nm				5.7mb
			SP	55	57.00		KSH	59.85	317	P	58	02.50	0.4	TVO	85.08	108	iP	00	33.60	2.0
			ePcP	57	39.79									1.2s	100.00nm				5.9mb	
			PcP	57	42.00		N	17s	11.20um				TBI	85.11	113	iP	00	34.10	2.5X	
			eS	01	44.63				S	06	08.00			1.3s	250.00nm				6.3mb	
SNY	41.18	357	iPc	55	40.00	0.1	TCW	60.20	140	P	58	02.00	-2.3	BRW	85.40	18	eP	00	33.80	1.6
	1.2s</																			

TRI	105.05	318	Pd	iff	02	01.00	-2.0
PNT	105.21	38	ePd	iff	02	04.00	0.2
	0.5s		4.00nm				5.6mb
MGR	105.25	312	Pd	iff	02	07.50	3.4X
SGO	105.33	312	PKP		05	58.50	-20.1X
SOI	105.35	310	Pd	iff	02	15.50	10.9X
GRF	105.43	322	ePd	iff	02	04.40	-0.3
Z	22s		8.00um				6.2Msz
			e(PP)		05	29.30	
FVI	105.44	319	Pd	iff	02	04.50	-0.2
WDC	105.77	47	ePd	iff	02	07.00	0.6
			ePP		06	31.00	
ATN	105.78	310	PKP		06	34.50	14.9X
VVI	105.86	318	Pd	iff	02	07.00	0.3
SQTA	106.26	320	ePd	iff	02	08.00	-0.6
	1.6s	49.40nm					6.3mb
			e		05	11.00	
			i		05	46.30	
			i		06	39.00	
			e		12	48.00	
			e		17	46.00	
AZI	106.32	314	Pd	iff	02	10.00	1.2
MNO	106.43	310	PKP		06	33.00	12.0X
BRK	106.65	50	ePd	iff	02	09.00	-1.4
Z	20s		6.00um				6.1Msz
			ePP		06	35.00	
			eSP		15	50.00	
			e		22	25.00	
			eLR		37	18.00	
BKS	106.67	50	ePd	iff	02	09.60	-0.9
Z	20s		7.00um				6.2Msz
N	20s		0.90um				
E	20s		3.40um				
			ePP		06	30.00	
			eSKS		12	51.60	
			ePS		15	45.20	
			eSS		21	38.80	
			eLO		31	32.80	
			eLR		35	29.20	
MNS	106.75	315	Pd	iff	02	11.00	0.2
SFI	106.88	316	PKP		06	27.00	5.6X
CRE	106.89	316	Pd	iff	02	12.50	1.0
RDP	106.90	314	PKP		06	38.00	16.4X
PGD	106.98	316	Pd	iff	02	13.50	1.6
NEW	107.12	39	Pd	iff	02	12.00	-0.3
SAL	107.24	318	Pd	iff	02	11.50	-1.3
FIR	107.33	316	e(Pd	iff	02	26.00	12.8X
FAI	107.37	309	PKP		06	38.50	16.0X
BNS	107.38	325	iPd	iff	02	14.50	1.2
Z	23s		11.80um				6.4Mszx
			i		05	48.00	
			i		15	51.50	
BCAO	107.45	275	ePd	iff	02	12.84	-1.7X
BDI	107.69	317	Pd	iff	02	17.50	2.5X
MDI	107.72	319	Pd	iff	02	15.00	0.1
CMB	108.04	50	ePd	iff	02	16.60	-0.1
			ePP		06	44.50	
			ePKKP		17	50.30	
DBN	108.04	326	e(Pd	iff	02	17.00	0.8
			e(SK	S)	12	56.00	
			e		15	54.00	
FRI	108.84	50	ePd	iff	02	20.50	0.4
UCC	109.07	325	Pd	iff	02	22.00	1.2
			PP		06	59.00	
			SKS		13	00.00	
CKI	109.14	318	Pd	iff	02	33.50	12.2X
DOU	109.23	324	Pd	iff	02	23.30	1.7
Z	22s		6.80um				6.2Msz
			PP		06	58.00	
			SKS		13	05.00	
			S		14	15.00	
			PKKP		17	44.50	

SSF 111.19 322 ePdiff02 38.40 8.0X
 RVR 111.48 53 ePdiff02 19.00 -13.0X
 RVR 111.48 53 ePKP 06 22.00 -8.4X
 GSC 111.56 52 ePKP 06 31.00 0.3
 PLM 112.07 54 ePKP 06 26.00 -5.8X
 FFC 112.35 28 ePdiff02 37.00 1.7
 1.0s 12.00nm
 FFC 112.35 28 iPKPc 06 31.10 -0.3
 0.6s 11.00nm
 BAR 112.41 54 ePKP 06 34.00 1.7
 TPC 112.50 53 ePdiff02 43.00 6.4X
 GLA 113.79 53 ePKP 06 19.00 -16.0X
 BW06 114.17 42 ePKPd 06 35.20 -0.5
 FRB 114.97 7 ePKP 06 35.00 -1.2
 ECR1 117.02 320 ePKP 06 42.00 1.1
 ETOR 117.57 318 ePKP 06 42.80 0.8
 GOL 118.36 43 ePKPd 06 43.00 -0.8
 Z 20s 5.35um 6.2Msz
 GLD 118.43 43 PKP 06 43.00 -0.8
 Z 20s 5.00um 6.1Msz
 EVIA 118.87 316 ePKP 06 45.00 0.4
 GUD 119.05 318 ePKP 06 45.70 0.8
 TOL 119.35 318 ePKP 06 47.00 1.7
 iPP 08 06.00
 ENIJ 119.40 314 ePKP 06 46.00 0.5
 ANMO 119.63 49 PKP 06 46.40 0.2
 Z 22s 4.44um 6.1Msz
 ANMO 119.63 49 ePdiff03 09.71 1.2X
 eSKS 13 34.81
 ALO 119.63 49 ePKP 06 46.00 -0.3
 Z 22s 4.81um 6.1Msz
 EBAN 119.98 316 ePKP 06 47.00 0.4
 AFC 120.23 315 ePKP 06 46.80 -0.5
 ASMO 120.32 315 iPKPd 06 46.70 -0.7
 APHE 120.46 314 iPKPc 06 47.70 0.0
 ACHM 120.50 315 ePKP 06 46.50 -1.2
 AAPN 120.61 315 iPKPd 06 47.50 -0.4
 EPLA 120.62 319 ePKP 06 48.50 0.8
 ATEJ 120.71 315 iPKPc 06 47.80 -0.4
 MAL 121.08 314 ePKP 06 48.00 -0.6
 iS 15 04.00
 EHOR 121.16 316 ePKP 06 49.80 1.0
 EPRU 121.55 315 ePKP 06 50.00 0.4
 EJIF 121.97 315 ePKP 06 50.80 0.4
 EVAL 122.31 316 ePKP 06 51.30 0.3
 NKM 122.39 314 ePKP 06 55.00 3.8X
 i 06 56.00
 IFR 123.05 311 iPKP 06 54.00 1.2
 SCH 123.84 9 ePKP 06 54.00 0.5
 AVE 124.85 312 iPKP 06 56.50 0.5
 TIO 125.02 310 iPKP 06 58.50 0.3
 i 07 15.50
 i 08 45.00
 OCO 125.86 44 ePKP 06 58.80 0.8
 SIO 126.55 43 ePKP 06 59.30 0.0
 TUL 126.81 43 ePKP 06 59.90 0.1
 1.0s 22.30nm
 Z 19s 2.96um 6.0Msz
 e 07 10.70
 LR 47 52.00
 FVM 129.01 37 ePKPd 07 03.00 -0.9
 ELF 130.02 26 PKP 07 05.40 -0.3
 DLA 130.17 27 PKP 07 05.60 -0.3
 LDN 130.20 26 PKP 07 05.60 -0.4
 KIC 130.45 279 PKP 06 57.34 -10.0X
 LIC 130.75 279 PKP 06 57.06 -10.8X
 Z 22s 3.00um 5.9Msz
 CBM 131.13 13 PKP 07 08.00 0.4
 RSNY 131.52 20 PKP 07 10.00 1.5
 HBVT 132.16 19 PKP 07 09.00 -0.7
 SCP 133.47 25 iPKPc 07 08.72 -3.6X
 iPP 09 34.04
 eSKP 10 35.57
 RSCP 133.51 36 PKP 07 10.00 -2.6X
 TKL 134.50 35 PKP 07 13.60 -0.8
 TXNY 134.60 22 PKP 07 14.60 0.2
 TBR 134.62 22 PKP 07 14.00 -0.4
 PNJ 134.85 22 ePKP 07 02.90 -12.0X
 i 07 16.40
 (PKS) 10 31.10
 GMTN 134.86 22 ePKP 07 05.80 -9.1X
 BLA 135.15 30 PKP 07 15.00 -0.7
 CBN 135.81 27 ePKP 07 35.00 18.2X
 e 10 22.00
 JSC 136.92 34 PKP 07 18.00 -1.0
 LHS 137.02 33 PKP 07 18.00 -1.2
 CHCH 143.25 156 ePKP 07 27.00 -3.5X

LCCH 143.27 155 ePKP 07 29.00 -1.5
 TACH 143.38 156 ePKP 07 27.50 -3.2X
 PCH 143.58 156 ePKP 07 29.50 -1.6
 IMA 143.62 154 ePKP 07 29.10 -2.0
 SAN 143.66 156 ePKP 07 28.00 -3.2X
 FCH 143.92 156 ePKP 07 30.00 -2.0
 PEL 143.92 156 iPKPc 07 29.00 -2.7X
 1.1s 145.57nm
 ROCH 143.94 155 ePKP 07 30.00 -1.9
 JACH 144.36 155 iPKPd 07 31.50 -1.0
 MDZ 144.88 158 iPKPc 07 32.60 -0.7
 i 07 54.40
 LPA 145.59 174 PKPd+ 07 35.20 0.9
 Z 20s 2.84um 6.0Msz
 RTBS 145.72 156 ePKPc 07 36.50 1.8
 RTCV 145.91 157 e(PKP) 07 21.00 -14.1X
 ZON 146.13 157 iPKPd 07 37.00 1.5
 RTCB 146.14 157 ePKPd 07 37.50 2.0
 CFA 146.25 158 ePKPd 07 35.70 0.1
 RTLL 146.40 157 ePKPd 07 35.80 -0.1
 GCM 146.62 52 ePKP 07 38.30 1.9
 ANT 151.94 146 e(PKP) 07 46.00 1.4
 i 07 51.50
 UPA 152.79 69 ePKPd 07 46.00 0.0
 1.0s 40.00nm
 Z 20s 10.99um 6.7Msz
 PT10 154.41 118 i(PKP) 07 50.00 1.7
 PT08 154.83 118 iPKP 07 49.60 0.3
 BMA 156.00 203 ePKP 07 46.90 -3.4X
 e 08 19.00
 ARE 156.53 133 ePKP 07 54.00 2.6X
 PSO 156.53 86 ePKP 07 52.00 0.3
 CNCB 158.70 140 PKPc 07 56.00 1.7
 LPB 158.82 139 PKPc 07 57.00 2.7X
 1.0s 90.00nm
 Z 22s 8.15um 6.5Msz
 LR 02 48.00
 ZOBO 159.00 139 iPKPc 07 55.88 1.2
 ePP 12 04.49
 e 12 29.32
 BOG 159.23 76 iPKPd 07 56.00 1.2
 FUQ 159.33 73 ePKP 08 07.00 12.1X
 CCH 159.38 145 PKP 07 58.50 3.8X
 i 08 37.00
 BMG 159.45 68 iPKP 07 55.00 0.3
 SDV 160.90 60 iPKPd 07 57.10 0.8
 TOV 161.17 57 ePKP 07 56.80 0.4
 CAI 162.23 250 ePKP 07 57.80 0.4
 GUAC 162.97 51 ePKP 07 59.00 0.7
 PLAV 162.98 52 ePKP 07 59.00 0.6
 CAR 163.04 49 iPKP 07 56.00 -2.3
 LLAV 163.15 49 ePKP 07 59.00 0.6
 QLLA 163.44 50 ePKP 07 59.00 0.3
 BDF 163.83 201 ePKPc 07 59.00 -0.1
 ePKPob08 51.14
 ePP 12 38.06
 S.D. = 1.1 on 351 of 431 obs.
 * AUG 25, 1990 16h 09m 12.80±3.15s
 32.030 S ±14.9km 71.958 W ±24.7km
 DEPTH = 10.0km (geophysicist)
 NEAR COAST OF CENTRAL CHILE (135)
 ROCH 1.23 140 ePd 09 35.50 -0.4
 iS 09 56.50
 JACH 1.33 120 iPd 09 36.50 -0.8
 iS 09 57.40
 LCCH 1.48 167 iPd 09 40.00 0.6
 PEL 1.55 136 ePd 09 40.10 -0.3
 i 09 41.50
 iS 10 05.00
 SAN 1.79 143 eP 09 46.00 2.0
 i 10 15.00
 TACH 1.83 152 eP 09 44.90 0.3
 iS 10 12.50
 FCH 1.91 133 iPd 09 45.50 -0.5
 LNV 1.97 167 eP 09 45.00 -1.6
 iS 10 18.60
 PCH 2.00 143 eP 09 46.70 -0.4
 iS 10 15.00
 RTBS 2.16 81 ePc 09 49.40 0.1
 CHCH 2.19 150 eP 09 49.70 -0.1
 i 10 19.00
 i 10 27.30
 MDZ 2.76 109 iP 10 03.90 5.9X
 iS 10 41.70
 ZON 2.83 81 e(P) 09 57.00 -2.0

RTCV 2.91 88 e(P) 10 02.00 1.9
 RTLL 3.06 78 eP 10 02.20 0.1
 eS 10 40.00
 S.D. = 1.2 on 14 of 15 obs.
 * AUG 25, 1990 17h 39m 08.60s
 36.667 N 121.333 W
 DEPTH = 4.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 3.4 (BRK).
 Mo=5.8+10+14 Nm (BRK). Felt
 (11) at Aromos.
 SAO 0.13 317 iP 39 11.20 -0.1
 LLA 0.32 99 iPc 39 15.00 0.0
 PRS 0.34 185 iPd 39 15.30 -0.1
 GCC 0.64 304 iPc 39 20.30 -1.2
 i 39 20.90
 ARN 0.70 347 iPc 39 22.40 -0.2
 MHC 0.72 340 iPd 39 22.80 -0.1
 iS 39 34.20
 PRI 0.75 134 iPd 39 23.00 -0.7
 i 39 23.20
 PHAM 1.12 137 eP 39 28.80 -1.4
 PKEM 1.16 121 eP 39 30.50 -0.3
 PCC 1.18 315 iPd 39 29.50 -1.7
 FRI 1.34 76 iPc 39 32.30 -1.6
 iS 39 50.10
 BKS 1.41 329 ePd 39 32.40 -2.6
 eS 39 55.60
 BRK 1.41 329 eP 39 32.20 -2.9
 ZSP 1.47 330 ePd 39 33.80 -2.1
 i 39 37.30
 CMB 1.56 29 ePd 39 35.70 -1.5
 iS 39 55.80
 BCH 1.79 145 eP 39 38.00 -2.6
 BLP 2.24 160 eP 39 44.00 -2.9
 ABL 2.50 136 eP 39 48.30 -2.6
 ORV 2.89 357 ePc 39 55.20 -1.0
 KVN 3.49 46 eP 40 04.50 -0.5
 MIN 3.68 357 e(P) 40 06.30 -1.3
 21 obs. associated
 * AUG 25, 1990 18h 09m 55.30s
 36.662 N 121.330 W
 DEPTH = 4.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 3.0 (BRK).
 SAO 0.14 318 iPc 09 58.00 -0.1
 LLA 0.31 98 iPc 10 01.60 0.0
 PRS 0.33 186 iPd 10 02.00 0.0
 GCC 0.65 305 ePc 10 07.20 -1.1
 ARN 0.70 347 iPc 10 09.20 -0.2
 MHC 0.72 340 iPd 10 09.60 -0.2
 iS 10 21.70
 PRI 0.75 134 ePc 10 09.40 -0.8
 iSg 10 24.70
 PHAM 1.12 137 eP 10 15.70 -1.1
 PKEM 1.15 121 eP 10 17.80 0.4
 PCC 1.19 315 ePc 10 16.20 -1.8
 eS 10 34.10
 FRI 1.34 75 ePc 10 19.00 -1.6
 eS 10 36.60
 BKS 1.41 329 ePc 10 21.80 0.0
 iS 10 43.70
 BRK 1.42 329 e(P) 10 20.20 -1.7
 ZSP 1.48 330 ePd 10 20.80 -1.9
 CMB 1.56 29 iPc 10 22.70 -1.3
 iS 10 42.30
 BCH 1.79 145 eP 10 25.00 -2.3
 ABL 2.49 136 eP 10 35.00 -2.5
 KVN 3.50 46 eP 10 52.00 0.3
 18 obs. associated
 * AUG 25, 1990 18h 39m 34.90±0.51s
 57.930 S ±10.9km 23.477 W ±10.9km
 DEPTH = 33.0km (normal)
 5.1mb (5 obs.)
 SOUTH SANDWICH ISLANDS REGION (153)
 AIA 20.41 232 eP 44 09.90 -1.4
 SPA 32.24 180 iPc 46 02.10 0.0
 1.2s 22.54nm 4.9mb
 i 46 57.00
 MAW 37.42 141 eP 46 47.00 1.1
 PPD 41.13 319 eP 47 19.90 2.6

25d 18h

CNCB 52.59 302 P 48 47.00 -1.1
 LPB 52.88 302 P 48 50.00 -0.1
 BUL 53.31 68 iPc 48 51.90 -1.0
 0.8s 4.10nm 4.5mb
 CIR 54.05 71 eP 48 59.20 1.0
 KRI 56.62 67 iPc 49 16.00 -1.0
 LIC 65.66 20 Pc 50 17.62 -0.2
 0.6s 20.00nm 5.4mb
 KIC 65.85 20 Pc 50 18.76 -0.3
 0.8s 23.50nm 5.4mb
 TIC 66.08 20 Pc 50 20.26 -0.3
 BCAA 70.71 45 iPd 50 48.70 -0.7
 0.7s 13.00nm 5.1mb
 51 02.70
 MUN 84.26 146 eP 52 04.80 0.6
 HFS 121.30 21 ePKP 58 34.90 10.4X
 1.2s 7.60nm
 NAO 121.42 19 PKP 58 36.00 11.2X
 0.7s 1.40nm
 NUR 123.97 26 ePKP 58 41.00 11.3X
 SOD 130.35 23 ePKP 58 54.00 12.3X
 KEV 132.43 21 ePKP 58 57.00 11.4X
 YKA 138.94 315 ePKP 58 59.00 0.9
 0.5s 1.60nm
 MBC 146.54 334 ePKP 59 15.00 4.1X
 1.0s 16.00nm
 INK 148.55 318 ePKP 59 17.50 3.2X
 BJI 148.66 107 ePKP 59 23.00 7.6X
 MAT 155.41 143 ePKP 59 40.00 14.8X
 S.D. = 1.2 on 15 of 24 obs.

AUG 25, 1990 19h 48m 51.52±0.66s
 40.634 N ± 6.1km 15.767 E ± 5.2km
 DEPTH = 10.0km (geophysicist)

SOUTHERN ITALY (390)

SGO 0.36 258 P 48 59.00 0.1
 eSg 49 05.40
 MGR 0.52 198 P 49 01.50 -0.6
 eSg 49 10.50
 BSS 0.75 282 P 49 05.50 -0.6
 eSg 49 17.70
 ORI 0.77 137 P 49 07.00 0.4
 eSg 49 18.00
 TDS 1.07 156 P 49 12.30 0.7
 eSg 49 27.80
 BRT 1.12 77 P 49 11.70 -0.8
 eSg 49 28.20
 DUI 1.42 317 P 49 18.40 0.9
 ATN 2.48 186 P 49 32.20 -0.4
 eSn 50 02.40
 SOI 2.57 175 P 49 34.10 0.3
 HVAR 2.59 11 ePn 49 38.70 4.5X
 OHR 3.85 81 ePn 49 58.50 6.4X
 S.D. = 0.7 on 9 of 11 obs.

AUG 25, 1990 23h 08m 12.42±0.94s
 32.159 S ± 5.3km 71.668 W ± 9.2km
 DEPTH = 10.0km (geophysicist)

NEAR COAST OF CENTRAL CHILE (135)

IHA 0.86 179 eP 08 29.50 0.5
 iS 08 34.00
 ROCH 0.98 146 eP 08 32.20 1.0
 iS 08 55.00
 JACH 1.05 120 iP 08 33.00 0.7
 iS 08 55.00
 PEL 1.29 140 iPd 08 37.00 0.7
 iS 08 37.90
 LCCH 1.32 176 iPd 08 35.60 -1.1
 iS 09 07.60
 TACH 1.61 158 iPd 08 41.20 0.2
 iS 09 10.00
 FCH 1.65 135 iPd 08 42.20 0.4
 iS 09 11.50
 PCH 1.75 147 eP 08 43.50 0.4
 iS 09 16.00
 iS 09 24.00
 LNV 1.80 173 iPc 08 42.10 -1.7
 iS 09 14.40
 iS 09 19.50
 RTBS 1.95 76 e(P) 08 45.00 -0.8
 CHCH 1.96 155 ePd 08 46.50 0.3
 iS 09 18.20
 iS 09 25.00
 MDZ 2.49 108 iP 09 01.60 7.9X

RTCB 2.53 75 iS 09 34.30
 ZON 2.62 77 e(P) 08 52.60 -1.7
 eS 08 56.00 0.5
 eS 09 33.00
 RTCV 2.68 84 e(P) 08 57.00 0.6
 RTLL 2.85 74 ePd 08 58.00 -0.8
 eS 09 36.00
 CFA 2.97 80 ePc 09 00.00 -0.5
 S 09 36.50
 ANT 8.49 8 eP 10 19.90 1.5
 CNCB 15.64 13 eP 11 41.00 -14.1X
 LPB 15.89 13 eP 11 50.00 -8.2X
 GBA 146.25 116 PKPc 27 53.90 -0.3
 0.9s 7.40nm
 S.D. = 1.0 on 18 of 21 obs.

AUG 26, 1990 00h 01m 41.72±0.55s
 64.696 N ± 4.3km 152.128 W ± 4.5km
 DEPTH = 33.0km (normal)

CENTRAL ALASKA (1)

ML 3.8 (PMR).

KTH 1.26 155 eP 02 03.27 0.0
 eS 02 19.68
 IMA 1.52 335 iPd 02 09.50 2.4
 MCK 1.70 123 eP 02 10.31 0.8
 eS 02 31.06
 WRH 1.76 96 eP 02 09.63 -0.7
 CCB 1.86 90 eP 02 11.01 -0.8
 FBA 1.87 82 iPc 02 11.20 -0.7
 GLM 2.05 80 eP 02 13.75 -0.8
 HUR 2.05 146 eP 02 15.52 1.0
 HDA 2.25 95 eP 02 16.56 -0.9
 eS 02 46.70
 CUT 2.45 159 eP 02 20.88 0.7
 eS 02 51.81
 TTA 2.47 226 eP 02 20.00 -0.6
 SKT 2.74 174 eP 02 24.43 0.1
 DDM 2.88 106 eP 02 26.47 0.0
 PWA 3.22 161 eP 02 31.43 0.3
 GHO 3.27 152 iP 02 32.17 0.2
 NCG 3.31 180 eP 02 32.34 -0.1
 SUA 3.31 168 eP 02 32.33 -0.1
 SML 3.37 148 eP 02 33.08 -0.2
 PLRM 3.40 155 eP 02 33.97 0.3
 PMR 3.40 155 iPc 02 34.00 0.3
 CGLM 3.40 179 eP 02 33.51 -0.3
 FYU 3.42 54 eP 02 32.49 -1.5
 CRP 3.44 180 eP 02 34.78 0.3
 BGL 3.45 182 iP 02 34.94 0.4
 CKL 3.51 182 iP 02 35.76 0.3
 SPU 3.53 179 iP 02 35.73 0.1
 PMS 3.66 160 eP 02 38.12 0.8
 TOA 3.73 131 eP 02 39.40 1.0
 SVW 3.94 206 eP 02 40.00 -1.4
 RDT 4.14 182 eP 02 44.07 -0.2
 KLU 4.28 136 eP 02 47.10 0.9
 SLKM 4.30 167 eP 02 45.02 -1.4
 RED 4.30 184 eP 02 46.08 -0.5
 VLZ 4.45 141 eP 02 48.19 -0.4
 VZW 4.45 143 eP 02 49.22 0.5
 GLB 4.99 127 eP 02 57.07 0.7
 PDB 5.02 192 eP 02 55.05 -1.6
 CNPM 5.21 175 eP 02 59.35 0.0
 BALM 5.79 125 eP 03 00.70 1.1
 TGL 5.82 129 eP 03 05.33 -2.7X
 S.D. = 0.8 on 39 of 40 obs.

AUG 26, 1990 01h 24m 11.64s
 59.766 N 152.915 W
 DEPTH = 96.0km

SOUTHERN ALASKA (2)
 <AGS-P>

AUE 0.47 210 iP 24 26.30 -0.7
 eS 24 37.02
 AUI 0.50 211 eP 24 26.50 -0.7
 PDB 0.65 272 iP 24 27.64 -0.8
 iS 24 40.11
 HOM 0.66 99 eP 24 28.19 -0.3
 eS 24 41.56
 RED 0.66 6 iP 24 27.82 -0.8
 XLV 0.68 117 iP 24 28.02 -0.8
 eS 24 41.54
 RDT 0.85 17 iP 24 29.60 -0.9
 eS 24 43.40
 NNL 0.86 71 iP 24 30.81 0.3

CNPM 0.89 105 iP 24 30.05 -0.8
 eS 24 44.88
 CDD 0.92 204 iP 24 30.09 -1.1
 iS 24 45.02
 MCNL 0.93 232 iP 24 30.36 -0.9
 eS 24 44.74
 BRLK 1.03 89 eP 24 31.46 -0.9
 eS 24 47.23
 SHU 1.18 165 iP 24 33.50 -0.6
 iS 24 49.88
 CKL 1.46 11 iP 24 37.05 -0.7
 SPU 1.48 16 eP 24 37.17 -0.8
 eS 24 57.07
 BGL 1.53 10 eP 24 38.01 -0.5
 SLKM 1.54 60 eP 24 37.52 -1.1
 eS 24 58.02
 CRP 1.55 14 eP 24 38.44 -0.5
 CGLM 1.61 16 eP 24 38.89 -0.7
 NCG 1.69 13 eP 24 39.93 -0.6
 SEW 1.78 78 eP 24 40.58 -1.0
 SVW 1.90 316 iP 24 41.98 -1.3
 SUA 2.01 31 eP 24 44.42 -0.4
 iS 25 10.25
 PMS 2.23 47 eP 24 46.69 -1.0
 SKT 2.32 16 eP 24 47.80 -1.1
 PWA 2.41 37 eP 24 48.96 -1.1
 PLRM 2.61 44 eP 24 50.92 -1.9
 GHO 2.81 43 iP 24 53.48 -2.1
 CUT 2.94 25 eP 24 56.41 -0.9
 SML 3.04 46 eP 24 56.53 -2.2
 VZW 3.41 65 eP 25 01.42 -2.4
 SCM 3.44 50 eP 25 02.09 -2.0
 VLZ 3.54 64 eP 25 03.46 -2.0
 KLU 3.86 60 eP 25 07.32 -2.6
 KTH 3.92 13 eP 25 10.08 -0.7
 TOA 4.04 52 eP 25 10.45 -2.0
 GLB 4.79 66 eP 25 20.67 -2.1
 TGL 5.12 74 eP 25 25.44 -2.0
 WRH 5.24 24 eP 25 26.34 -2.6
 BALM 5.40 72 eP 25 29.29 -2.0
 HDA 5.43 28 eP 25 29.24 -2.4
 CCB 5.45 24 iP 25 29.27 -2.6
 FBA 5.68 23 eP 25 32.61 -2.4
 GLM 5.84 24 eP 25 34.52 -2.7
 PCA 6.37 82 eP 25 42.86 -1.8
 BCPM 6.69 83 eP 25 47.30 -1.7
 PNL 6.84 85 eP 25 48.26 -2.8
 HQN 7.13 86 eP 25 51.96 -3.1
 48 obs. associated

AUG 26, 1990 02h 19m 47.15±1.16s
 38.815 N ± 9.9km 15.529 E ± 31.1km
 DEPTH = 100.0km (geophysicist)

SICILY (398)

ATN 0.66 185 P 20 04.50 0.1
 eSg 20 20.00
 SOI 0.85 151 P 20 06.10 -0.1
 eSg 20 20.80
 TDS 1.05 36 P 20 08.50 0.1
 MGR 1.32 1 P 20 11.50 -0.1
 S.D. = 0.2 on 4 of 4 obs.

AUG 26, 1990 02h 49m 32.46±1.12s
 6.236 S ± 16.0km 150.543 E ± 14.6km
 DEPTH = 10.0km (geophysicist)
 4.5mb (5 obs.) 4.2msz (1 obs.)

NEW BRITAIN REGION (192)

RAB 2.60 39 iPd 50 15.00 -0.2
 iS 50 51.00
 LAT 3.54 263 eP 50 35.00 6.3X
 eS 51 26.00
 PMG 4.61 227 eP 50 45.00 1.2
 eS 51 38.00
 HNR 9.84 109 eP 51 58.00 0.9
 eS 52 48.00
 RMO 20.21 185 iPd 54 08.60 -1.9
 1.0s 118.00nm 5.2mb
 WB5 20.76 228 eP 54 13.00 -3.2X
 iS 54 20.00
 eS 58 02.20
 WRA 20.82 228 P 54 13.00 -3.8X
 0.7s 5.20nm 4.0mb
 ASPA 23.59 221 eP 54 43.90 -0.5
 1.5s 21.00nm 4.5mb
 Z 22s 0.29um 3.7mszX

26d 02h

STK 26.85 197 eP 05 15.60 0.5
 0.9s 5.00nm 4.2mb
 SSE 46.54 325 eP 58 11.50 9.4X
 1.2s 14.00nm 4.9mb
 Z 20s 0.30um 4.2MsZ
 S.D. = 1.5 on 6 of 10 obs.

AUG 26, 1990 04h 01m 10.52±0.17s
 44.517 N ± 1.5km 7.319 E ± 1.9km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 3.1 (GEN), 2.9 (LDG).

DOI 0.05 255 P 01 13.50 0.7
 PZZ 0.16 266 P 01 14.00 -0.2
 STV 0.27 179 P 01 16.44 0.1
 ENR 0.30 166 P 01 17.13 0.3
 ROB 0.45 119 P 01 20.74 1.0
 TOUF 0.51 186 Pg 01 20.51 -0.3
 AUTN 0.53 171 Pg 01 21.07 -0.2
 RRL 0.55 317 P 01 21.26 -0.7
 SAOF 0.56 162 Pg 01 21.57 -0.3
 AURF 0.63 179 Pg 01 22.81 -0.4
 MVIF 0.63 191 Pg 01 22.81 -0.5
 RSP 0.64 356 P 01 22.49 -0.9
 SBF 0.66 173 Pg 01 23.10 -0.6
 CKI 0.69 97 P 01 25.10 0.8
 BNI 0.70 320 P 01 24.00 -0.5
 FIN 0.71 115 P 01 25.05 0.5
 IMI 0.73 146 P 01 24.95 0.0
 REVF 0.78 177 Pg 01 25.60 -0.1
 CALN 0.82 202 Pg 01 26.25 -0.3
 PCP 0.88 88 P 01 28.33 0.9
 LSD 0.95 353 P 01 27.92 -0.8
 LPG 1.06 338 Pn 01 30.80 0.1
 FRF 1.07 207 Pg 01 30.30 -0.4
 LPL 1.08 338 Pn 01 31.20 0.2
 ORO 1.20 23 P 01 33.40 0.4
 ORX 1.21 23 P 01 31.30 -1.8
 LRG 1.27 213 Pg 01 33.80 -0.2
 TAVF 1.28 226 Pn 01 34.21 -0.1
 LMR 1.32 207 Pg 01 34.80 -0.1
 VILF 1.33 241 Pn 01 35.92 0.8
 CDR 1.40 234 ePgC 01 36.10 0.0
 PUYF 1.53 230 Pn 01 38.04 0.2
 TREF 1.66 238 Pn 01 40.92 1.2X
 BERF 1.68 225 Pn 01 40.41 0.2
 PRAF 1.70 246 Pn 01 41.80 1.3X

GELF 1.77 231 Pn 01 42.17 0.7
 MDI 2.11 53 P 02 05.76
 PGF 2.32 148 Pn 01 46.10 -0.2
 BDI 2.40 100 P 01 47.42 -2.0
 SMF 3.24 312 Pn 01 51.00 0.5
 BSF 3.34 354 Pn 02 03.50 1.1
 LBF 3.40 318 Pn 02 41.10
 CRE 3.46 103 P 02 55.50
 MAU 3.55 349 Pn 02 03.50 -0.4
 AVF 3.59 311 Pn 02 42.40
 LOR 3.66 320 Pn 02 05.10 0.4
 SSF 3.69 315 Pn 02 44.00
 BGF 3.75 305 P 02 59.10
 MAF 3.76 299 Pn 02 06.00 0.5
 CAF 3.77 278 Pn 02 06.60 -0.2
 CDF 3.90 360 Pn 02 48.60
 TCF 4.01 298 Pn 02 07.50 0.1
 LPO 4.38 274 Pn 02 09.50
 LSF 4.43 295 Pn 02 10.30 0.5
 S.D. = 0.6 on 52 of 54 obs.

7 AUG 26, 1990 04h 02m 33.99±4.55s
 0.589 S ± 27.7km 78.065 W ± 29.9km
 DEPTH = 31.9 ± 13.9 km
 ECUADOR (107)

VC1 0.34 262 iPd 02 42.60 -0.1
 OUR 0.62 312 iPd 02 47.00 0.2
 CAYA 0.67 7 iP 02 47.80 0.2
 GGP 0.67 308 eP 02 47.80 0.1
 COTA 0.96 343 P 02 51.20 -0.5
 S.D. = 0.6 on 5 of 5 obs.

AUG 26, 1990 04h 47m 04.93±0.39s
 58.379 S ± 8.8km 25.916 W ± 7.8km
 DEPTH = 33.0km (normol)
 5.3mb (4 obs.)
 SOUTH SANDWICH ISLANDS REGION (153)

AIA 19.11 233 eP 51 29.00 1.7
 SPA 31.79 180 iPc 53 28.90 0.7
 PCH 38.61 290 eP 54 27.20 0.7
 FCH 38.73 291 ePd 54 28.00 0.2
 LNV 38.78 289 ePc 54 27.00 -0.8
 TACH 38.79 290 ePd 54 27.50 -0.4
 SAN 38.81 290 eP 54 28.00 -0.1
 PEL 39.07 290 iPd 54 30.90 0.6
 PPD 40.66 322 eP 54 44.50 1.0
 SBA 43.80 184 e(P) 55 09.20 0.7
 CNCB 51.76 305 P 56 12.00 0.1
 LPB 52.06 305 eP 56 13.00 -1.0
 ZOBO 52.30 305 P 56 14.00 -2.0
 BUL 54.67 70 iPd 56 33.20 0.2
 KRI 57.99 69 iPd 57 05.00 139kmX
 LIC 66.56 23 P 57 33.00 153kmX
 KIC 66.75 23 P 57 54.50 0.9
 TIC 66.97 23 P 57 55.70 0.9
 BCAA 71.96 47 iPd 58 27.60 0.7
 FORR 88.49 158 eP 59 01.20
 ASPA 96.55 161 iPd 59 54.00 -0.9
 WRA 100.27 161 Pd diff 00 30.60 -1.8
 0.9s 1.20nm 4.4mb

KOD 105.67 96 ePd diff 01 10.80 -2.7X
 SCH 117.55 335 ePKP 05 45.00 -2.7X
 HFS 122.19 22 ePKP 05 52.80 -3.5X
 PKI 124.15 92 PKP 06 00.00 -1.6
 SOD 131.28 24 ePKP 06 12.00 -1.5
 YKA 138.35 316 ePKP 06 21.00 -5.3X
 SSE 144.72 126 iPKPc 06 36.40 -2.8X
 MBC 146.39 334 ePKP 06 37.50 -3.2X
 INK 148.02 318 ePKP 06 44.00 0.5
 BJI 149.74 111 ePKP 07 23.00 3.5X
 S.D. = 1.1 on 25 of 32 obs.

AUG 26, 1990 05h 16m 39.85±0.21s
 9.152 S ± 4.1km 110.765 E ± 5.3km
 DEPTH = 33.0km (normol)
 5.3mb (27 obs.) 4.7MsZ (9 obs.)
 SOUTH OF JAVA (282)
 CENTRIDID. MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 14S, 23C
 Centroid Location:
 Origin Time 05:16:48.3 2.1
 Lat 9.43S 0.17 Lon 110.57E 0.14
 Dep 15.0 FIX Half-duration 2.0
 Moment Tensor: Scale 10**17 Nm
 Mrr= 0.12 0.08 Mtt=-0.26 0.09
 Mff= 0.14 0.09 Mrt= 1.63 0.20
 Mrf= 0.59 0.22 Mtf= 0.41 0.07
 Principal Axes:
 T Val= 1.87 Plg=44 Azm=328
 N -0.15 15 72
 P -1.72 42 176
 Best Double Couple: Mo=1.8*10**17
 NP1: Strike=338 Dip=15 Slip= 176
 NP2: 72 89 75

MKS 9.48 66 iPc 19 04.00 6.8X
 KGM 13.35 326 eP 19 55.50 5.9X
 NANU 14.10 162 eP 19 51.00 -8.4X
 MBL 14.79 145 eP 22 15.00
 0.2s 24.00nm 5.2mb
 KKM 16.04 20 eP 22 27.00
 PSI 16.67 314 ePd 20 35.50 10.2X
 IPM 16.74 324 ePd 20 34.00 2.9X
 MNI 17.53 54 ePc 20 54.50 0.4
 KNA 18.75 112 iPc 21 34.00
 SNG 19.12 328 eP 21 34.00
 MTN 20.32 102 iPc 21 34.00
 DAV 21.86 43 eP 21 34.00
 BAL 22.05 166 eP 21 32.00
 WARB 22.67 140 eP 21 39.00
 0.3s 8.00nm 4.7mb
 KLB 23.26 165 eP 21 36.00
 MUN 23.27 168 eP 21 45.00
 COOL 23.69 157 eP 21 45.00
 NNT 24.22 333 eP 21 45.00
 NWA0 24.40 167 eP 21 55.00
 WB5 25.18 118 eP 21 55.00
 WRA 25.18 118 Pd 22 04.60
 0.8s 65.00nm 5.3mb
 RKG 25.46 168 iPd 22 11.00 4.5X
 ASPA 26.41 126 eP 22 14.90 -0.6
 0.9s 104.00nm 5.4mb
 Z 22s 2.00um 4.6MsZ
 FORR 26.97 146 eP 27 15.40
 LOE 27.86 341 eP 31 53.10
 OIZ 28.02 358 eP 27 18.40 -2.0
 N 15s 1.70um 27 16.00
 22 30.00 1.3
 22 35.30 5.2X

CBN	150.16	13	ePKP	36	30.00	6.0X
GBTN	150.28	25	PKP	36	29.50	5.2X
BLA	150.29	18	PKP	36	30.00	5.7X
TKL	150.47	25	PKP	36	30.60	6.0X
LHS	152.65	21	PKP	36	34.50	6.7X
JSC	152.66	22	PKP	36	36.50	8.7X
CNCB	154.18	183	PKP	36	34.50	3.4X
LPB	154.46	183	PKP	36	35.00	3.7X
ZOBO	154.72	182	PKP	36	29.00	-2.8X
S.D. = 1.1 on 94 of 132 obs.						
* AUG 26, 1990 05h 30m 06.77±1.78s						
44.532 N ± 5.6km 8.558 E ±15.1km						
DEPTH = 10.0km (geophysicist)						
NORTHERN ITALY (545)						
ML 2.5 (LDG), 2.3 (GEN).						
PCP	0.01	317	P	30	08.28	-0.4
			S	30	09.62	
CKI	0.23	242	P	30	11.70	0.1
			eSg	30	15.50	
FIN	0.41	218	P	30	15.05	-0.1
			S	30	21.51	
ROB	0.55	244	P	30	17.31	-0.5
			S	30	24.48	
IMI	0.79	218	P	30	22.43	0.3
			S	30	32.81	
ENR	0.87	250	P	30	23.46	-0.1
			S	30	34.74	
STV	0.93	252	P	30	24.48	-0.1
			S	30	36.17	
PZZ	1.04	269	P	30	26.84	0.3
			S	30	39.04	
SBF	1.05	231	Pg	30	26.00	0.2
			Sg	30	41.70	
ORX	1.17	340	P	30	28.79	0.0
			S	30	42.40	
FRF	1.69	235	Pg	30	38.00	2.4X
			Sg	31	01.40	
LMR	1.90	232	Pg	30	42.30	2.7X
			Sg	31	07.60	
LRG	1.92	237	Pg	30	43.10	3.4X
			Sg	31	08.90	
S.D. = 0.3 on 10 of 13 abs.						
* AUG 26, 1990 07h 33m 51.49±0.87s						
26.372 S ± 8.3km 27.520 E ± 8.5km						
DEPTH = 5.0km (geophysicist)						
REPUBLIC OF SOUTH AFRICA (584)						
ML 1.8 (PRE).						
PRY	0.56	184	eP	34	02.00	-0.6
			S	34	09.00	
KSR	0.75	312	eP	34	05.00	-1.0
SLR	0.93	47	eP	34	10.50	0.6
			S	34	22.90	
SWZ	2.12	247	eP	34	29.50	1.3
			S	34	55.50	
BFT	2.37	74	eP	34	31.60	-0.3
S.D. = 1.3 on 5 of 5 abs.						
* AUG 26, 1990 07h 38m 24.72±0.96s						
39.259 N ± 0.5km 27.814 E ± 9.1km						
DEPTH = 10.0km (geophysicist)						
TURKEY (366)						
DST	0.72	61	ePg	38	39.00	0.1
			eSg	38	52.00	
IZM	0.96	207	iPg	38	43.00	-0.1
			iSg	38	58.00	
EDC	1.09	29	ePn	38	45.00	-0.1
EZN	1.28	297	iPn	38	48.60	0.1
S.D. = 0.2 on 4 of 4 abs.						
AUG 26, 1990 07h 53m 41.69±0.15s						
19.592 N ± 2.9km 77.874 W ± 2.4km						
DEPTH = 10.0km (geophysicist)						
5.9mb (89 obs.) 5.1Msz (15 abs.)						
CUBA REGION (85)						
Ms 5.7 (BRK). Felt strongly in the areas of Monzanillo, Niquera and Pilsan. Felt in many parts of eastern Cuba. Also felt in western Jamaica.						
CENTROID, MOMENT TENSOR (HRV)						
Data Used: GDSN						
L.P.B.: 125, 26C						

26d 08h

MFF	1.0s	138.00nm	6.1mb	TNS	1.3s	108.30nm	5.8mb	E	19s	0.80um	15	26.00
	67.69	47 iPd	04 40.60 -0.7		72.88	42 ePd	05 13.00 0.1			S	05	41.00
	1.2s	124.95nm	6.0mb	LSD	72.89	47 P	05 14.26 1.0	VAH	76.83	248 eP	05	41.00
EALH	67.76	56 eP	04 42.70 0.8	DIX	72.95	47 ePd	05 14.50 0.9		1.2s	70.00nm		5.6mb
ECHE	67.87	54 iPd	04 43.30 0.6	RSP	73.01	47 P	05 14.57 0.8	KMR	77.00	43 iP-	05	36.90
EPF	68.42	51 iPd	04 46.00 0.0	FEL	73.02	45 P	05 13.76 -0.1	TRI	77.35	46 iPd	05	39.00
	1.4s	204.20nm	6.1mb	PZZ	73.03	48 P	05 14.36 0.4	VOY	77.36	46 iPd	05	38.70
ACU	68.45	55 eP	04 47.50 1.2	DOI	73.13	48 P	05 15.20 0.7	MNS	77.46	49 P	05	39.20
LFF	68.48	48 iPd	04 46.00 -0.2	STV	73.23	48 P	05 15.08 0.0	SOD	77.53	23 iP	05	37.60
	1.2s	220.15nm	6.2mb	ENR	73.30	48 P	05 15.49 0.0	KSP	77.62	40 iPd	05	40.20
EROO	68.75	53 eP	04 48.40 0.3	MMK	73.33	46 ePd	05 17.00 1.2		1.2s	68.00nm		5.6mb
LPO	68.83	49 iPd	04 48.00 -0.4	ZLA	73.35	45 ePd	05 15.90 0.3	RMP	77.63	50 P	05	40.90
	1.3s	209.40nm	6.2mb	SLE	73.36	45 ePd	05 15.70 0.0	RDP	77.65	50 P	05	40.70
LSF	68.88	47 iPd	04 47.80 -0.9	SBF	73.39	49 eP	05 15.40 -0.5	LJU	77.79	45 ePd	05	41.00
	1.1s	78.15nm	5.8mb		1.2s	229.10nm	6.1mb	CEY	77.79	46 iPd	05	41.80
RJF	68.98	48 iPd	04 48.70 -0.7	ORX	73.42	47 P	05 16.52 0.3	AQU	77.99	49 P	05	42.40
	1.3s	176.90nm	6.1mb	ORO	73.42	47 P	05 16.70 0.5	AZI	78.11	50 P	05	43.00
Z	19s	1.13um	5.1Msz	ROB	73.61	48 P	05 17.34 0.1	VKA	78.35	43 iPd	05	44.50
TCF	69.35	47 iPd	04 50.80 -0.8	IMI	73.70	49 P	05 17.54 -0.2		1.5s	195.00nm		6.0mb
CAF	69.41	48 iPd	04 51.70 -0.4	FIN	73.86	48 P	05 18.46 -0.2			ic	05	45.10
MAF	69.60	47 iPd	04 52.50 -0.6	CKI	73.87	48 P	05 18.60 0.0			e	06	25.00
	1.3s	122.75nm	5.9mb	LLS	73.87	45 ePd	05 19.80 0.9			i	06	37.50
BGF	69.75	47 eP	04 53.40 -0.6	TMA	73.94	46 ePd	05 19.80 0.6	VBY	78.42	46 ePd	05	45.20
GRC	69.81	46 P	04 54.46 0.1	HFS	74.00	31 eP	05 18.50 -0.5	RFI	78.69	50 P	05	47.13
BER	69.84	32 iPc	04 54.50 0.3		1.6s	232.70nm	6.0mb		1.5s	2065.90nm		7.0mb X
PYM	69.97	47 P	04 55.51 0.0	SAX	74.03	45 ePd	05 20.40 0.5	ZST	78.87	43 iP	05	47.80
AVF	70.06	46 iPd	04 55.00 -0.9	PCP	74.03	48 P	05 19.90 0.2	SUF	79.02	27 iP	05	48.00
SSF	70.13	46 iPd	04 55.40 -0.9	TRO	74.15	21 iPc	05 19.90 0.1		1.0s	130.90nm		5.9mb
LBL	70.20	48 P	04 57.34 0.6	VDL	74.27	46 ePd	05 22.00 0.8	NUR	79.14	29 iP	05	48.80
SNF	70.20	42 iPd	04 56.64 0.0	MDI	74.58	46 P	05 22.20 -0.5		1.3s	156.60nm		5.9mb
UCC	70.22	42 iPd-	04 56.80 0.1	OSS	74.68	46 ePd	05 24.40 0.9	BSS	79.43	50 P	05	50.10
LOR	70.34	46 iPd	04 56.60 -1.1	GRF	74.74	42 ePd	05 24.20 0.6	PAE	79.53	247 eP	05	58.00
	1.2s	139.45nm	6.0mb		1.2s	118.00nm	5.8mb		1.2s	70.00nm		5.5mb
Z	19s	1.02um	5.1Msz	PGF	74.78	50 eP	05 23.40 -0.7	GIB	79.65	53 P	05	51.50
ETER	70.36	51 eP	04 58.30 0.5		20s	1.00um	5.1Msz	SRO	79.76	43 iP	05	51.90
SMF	70.42	46 iPd	04 57.30 -0.8		1.2s	136.85nm	5.9mb	SGO	79.86	51 P	05	52.40
DOU	70.45	43 Pd	04 58.20 0.0	MOX	74.79	41 iPd	05 24.00 0.1	KRA	80.08	40 iPd	05	53.70
	1.0s	180.50nm	6.2mb		1.4s	158.00nm	5.9mb		1.3s	173.00nm		5.9mb
		S	14 14.00	Z	18s	1.30um	5.3Msz	Z	18s	1.00um		5.2Msz
LBF	70.46	46 iPd	04 57.50 -0.9			eS	15 10.00			e	06	05.30
	1.3s	124.55nm	5.9mb	HOF	75.02	42 eP	05 25.40 0.2			e	16	09.00
DBN	70.57	40 eP	05 00.00 1.2		1.2s	38.00nm	5.3mb	MGR	80.17	51 P	05	53.70
Z	18s	0.60um	4.9Msz	FUR	75.11	44 eP	05 26.30 0.5	SPC	80.55	41 iPc	05	58.00
		eS	14 14.00		1.3s	127.00nm	5.8mb	PSZ	80.74	42 iP	05	58.10
ESEL	70.80	54 eP	05 01.30 0.8	SAL	75.18	47 P	05 26.40 0.3	ORI	80.84	51 P	05	57.50
KBS	70.87	12 iP	05 01.00 0.7	OQA	75.23	45 iPd	05 27.50 0.8	TDS	80.88	51 P	05	57.50
ENN	71.21	42 iPd	05 03.00 0.2		1.2s	142.00nm	5.9mb	BRT	81.14	50 P	05	59.20
	1.0s	161.00nm	6.1mb	SQTA	75.28	45 iPd	05 27.20 0.3	GRI	81.20	52 P	05	59.00
		e	05 14.50		1.3s	134.00nm	5.8mb		1.3s	86.80nm		5.6mb
		e	05 22.50			i	05 32.50	LCI	81.85	50 P	06	04.00
MEM	71.28	42 Pd	05 03.50 0.3			i	06 02.00	BEO	82.13	45 iP	06	04.90
WIT	71.38	40 ePd	05 05.00 1.3			i	06 05.20	BZS	82.63	44 eP	06	07.00
WTS	71.58	40 iPd	05 05.50 0.5			e	08 33.00	OHR	83.63	49 iPd	06	13.60
	1.0s	295.00nm	6.3mb	BRN	75.37	39 ePd	05 28.00 0.9		1.4s	335.00nm		6.4mb
		e	05 18.50	CLL	75.50	40 iPd	05 28.00 0.1	SKO	83.78	48 iPd	06	13.40
VITF	71.62	44 P	05 05.45 0.1		1.5s	140.00nm	5.8mb		1.2s	183.00nm		6.2mb
TIC	71.67	89 P	05 05.02 -1.3		Z	0.50um	4.9Msz X	TNR	84.35	44 ePd	06	16.00
LIC	71.80	90 P	05 05.90 -1.1			e	05 37.00	VLS	84.50	52 eP	06	16.90
HAU	71.90	45 iPd	05 06.20 -0.8	BDI	75.57	48 P	05 27.50 -1.1	KZN	84.61	49 eP	06	19.90
	1.2s	133.90nm	5.9mb	PII	75.60	48 P	05 28.50 -0.1	VAY	84.81	48 iPd	06	18.70
Z	20s	1.20um	5.2Msz	MME	75.62	48 P	05 29.70 0.7		1.3s	135.00nm		6.0mb
BNS	71.96	41 iPd	05 07.60 0.3	CGL	75.72	53 P	05 30.34 0.8	KKB	84.96	47 iPd	06	20.00
	1.3s	300.00nm	6.2mb		1.5s	77.10nm	5.6mb	CMP	85.00	44 iPd	06	20.00
KIC	72.03	90 P	05 07.34 -1.0	BSD	75.73	36 iPd	05 29.80 0.7	EVR	85.13	51 eP	06	21.70
	1.0s	55.50nm	5.6mb		1.2s	7.10nm	4.6mb X	MLR	85.50	43 iPd	06	23.00
BSF	72.22	45 P	05 08.51 -0.6	WET	75.92	43 iPd	05 31.10 0.7	MMB	85.52	47 Pd	06	23.00
CDR	72.23	49 iPd	05 09.50 0.4		1.3s	308.00nm	6.2mb	PLG	85.77	49 eP	06	23.90
LOMF	72.33	45 P	05 09.68 0.0	BRG	76.18	41 iPd	05 31.80 0.1	VRI	85.85	43 ePc	06	23.00
ECH	72.40	44 P	05 10.12 0.1		1.4s	150.00nm	5.9mb	ITM	85.85	52 eP	06	23.50
CDF	72.44	44 P	05 10.20 -0.2			i	05 40.10	PVL	85.99	46 iPd	06	24.00
MOF	72.44	45 P	05 10.12 -0.3			i	05 43.50	RZN	86.16	47 iPd	06	26.00
NAO	72.48	31 P	05 10.40 0.2	BHG	76.26	44 iPd	05 32.80 0.5	DIM	86.58	47 iPd	06	32.00
	1.3s	259.10nm	6.2mb		1.5s	200.00nm	6.0mb	RDO	86.94	47 eP	06	29.30
GWF	72.57	44 P	05 11.22 0.2	KHC	76.37	43 iPd	05 33.60 0.7	CFR	87.04	43 eP	06	28.00
LPL	72.58	47 iPd	05 11.20 -0.2		1.3s	78.50nm	5.6mb	JMB	87.13	46 iPd	06	30.00
	1.1s	84.25nm	5.7mb	Z	16s	0.80um	5.1Msz X	BCAO	94.55	84 iPc	07	04.00
LPG	72.60	47 iPd	05 11.30 -0.3	N	16s	0.50um			0.4s	5.00nm		5.3mb
	1.2s	114.55nm	5.8mb	E	16s	0.70um		GTA	121.27	2 ePKP	12	36.20
BNI	72.63	48 P	05 12.40 0.8	VVI	76.38	46 P	05 33.00 0.0	Z	20s	1.20um		5.5Msz
LRG	72.70	49 eP	05 11.60 -0.2	PGD	76.41	48 P	05 33.00 -0.4	E	15s	0.70um		
	1.3s	126.35nm	5.8mb	FVI	76.47	45 P	05 33.20 -0.2			PP	14	05.00
RRL	72.73	48 P	05 13.23 0.9	SFI	76.49	48 P	05 33.50 -0.1	TIY	122.18	350 ePKP	12	38.00
STR	72.73	44 P	05 12.59 0.7	CRE	76.63	48 P	05 33.50 -1.1	Z	20s	2.00um		5.8Msz
BBS	72.76	45 P	05 12.17 0.0	PRU	76.77	41 iPd	05 35.60 0.5	N	17s	1.10um		
LMR	72.83	49 eP	05 12.10 -0.5		1.4s	90.00nm	5.7mb	LZH	124.60	358 PKPc	12	43.20
	1.3s	108.30nm	5.8mb	Z	19s	1.10um	5.2Msz	Z	22s	1.20um		5.5Msz
FRF	72.88	49 eP	05 12.30 -0.6	N	18s	0.30um		E	18s	1.40um		

26d 13h

eSn 43 28.10
 eSg 43 53.80
 PLG 5.90 89 ePn 42 54.30 -0.6
 FVI 6.45 342 P 43 00.60 -1.9
 MDI 6.86 322 P 43 06.70 -1.5
 SBF 7.00 301 eP 43 10.00 -0.5
 0.6s 10.80nm 5.2mb X
 SOTA 7.46 336 ePn 43 16.50 -0.3
 0.6s 15.40nm 5.4mb X
 i 43 25.00
 iSn 44 28.10
 i 44 37.40
 i 44 46.40
 LPG 8.25 310 eP 43 30.40 2.4X
 0.8s 6.70nm 5.0mb X
 LPL 8.27 310 eP 43 30.80 2.5X
 1.0s 10.00nm 5.0mb X
 KHC 8.76 351 eP 43 32.80 -2.0
 WET 8.87 348 eP 43 34.10 -2.3
 BSF 9.73 322 eP 43 46.20 -2.1
 CDF 9.94 325 eP 43 47.70 -3.5X
 0.6s 3.60nm 5.0mb X
 NAO 20.56 353 P 46 04.60 -1.9
 0.7s 1.50nm 3.5mb
 S.D. = 1.2 on 44 of 48 obs.

AUG 26, 1990 13h 45m 02.26±1.35s
 34.067 S ± 7.6km 178.930 W ± 7.8km
 DEPTH = 12.5 ± 8.1 km
 5.4mb (9 obs.) 4.9Msz (5 obs.)
 SOUTH OF KERMADEC ISLANDS (179)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 10S, 21C
 Centroid Location:
 Origin Time 13:45:16.2 1.4
 Lat 33.235 0.13 Lon 179.15W 0.10
 Dep 20.4 4.6 Half-duration 1.7
 Moment Tensor: Scale 10**16 Nm
 Mrr= 5.37 0.43 Mtt=-0.56 0.53
 Mff=-4.81 0.54 Mrt= 2.58 1.08
 Mrf= 7.80 2.08 Mtf=-3.65 0.50
 Principal Axes:
 T Vol= 9.63 Plg=62 Azm=277
 N 1.31 8 22
 P -10.94 27 116
 Best Double Couple: Mo=1.0*10**17
 NP1: Strike=225 Dip=20 Slip= 114
 NP2: 20 72 82

HBZ 4.18 212 eP 46 07.20 0.1
 0.3s 142.00nm
 PUZ 4.60 209 P 46 12.30 -0.9
 S 47 06.00
 NOZ 5.16 207 eP 46 21.40 0.4
 TAZ 5.56 220 eP 46 28.10 1.4
 WLZ 5.83 228 P 46 33.10 2.7X
 S 47 42.80
 WHH 6.06 216 P 46 34.10 0.3
 TTH 6.44 211 eP 46 38.10 -1.0
 NGZ 6.73 219 eP 46 44.20 0.8
 CNZ 6.78 219 eP 46 44.50 0.5
 PGZ 7.57 209 eP 46 52.00 -2.9
 0.3s 19.00nm 5.8mb
 MTW 8.34 210 eP 47 00.20 -5.6X
 CAW 8.49 212 eP 47 03.00 -4.8X
 BLW 8.53 210 eP 47 02.90 -5.5X
 WEL 8.77 213 eP 47 13.00 1.4
 S 48 44.00
 KHZ 10.22 213 eP 47 26.90 -4.7X
 LTZ 11.10 216 eP 47 40.00 -3.7X
 SVA 16.06 351 eP 48 47.00 -2.4X
 SGE 16.65 349 eP 48 56.30 -0.8
 DZM 17.57 389 iPc 49 12.50 4.0X
 RAR 21.21 58 P 49 48.00 -2.0
 S 53 56.00
 BRS 25.17 278 iP 50 30.00 1.1
 i 50 43.00
 RMO 28.82 276 eP 51 04.00 1.6
 CMS 29.66 265 eP 51 12.00 2.2
 STK 33.05 263 iPd 51 41.20 1.6
 1.6s 91.00nm 5.5mb
 Z 18s 182.00um 6.8MszX
 CTA 33.80 285 iPd 51 48.20 1.9
 1.5s 133.33nm 5.6mb
 iS 57 12.00
 ADE 34.73 256 eP 51 56.00 1.8

ASPA 42.27 271 eP 52 56.90 -0.3
 0.7s 63.00nm 5.5mb
 Z 19s 1.52um 4.9Msz
 ePP 53 09.10
 eS 59 15.80
 LR 09 59.70
 WRA 43.58 277 Pc 53 07.20 -0.7
 1.0s 71.90nm 5.4mb
 WB5 43.59 277 eP 53 07.30 -0.7
 i 53 19.50
 eS 59 37.00
 FORR 44.40 259 iPd 53 14.30 -0.1
 0.4s 23.00nm 5.4mb
 WARB 47.26 264 eP 53 35.00 -2.2
 0.4s 18.00nm 5.5mb
 COOL 50.03 256 eP 53 58.00 -0.6
 KLB 52.49 254 eP 54 16.00 -1.2
 MUN 53.59 253 eP 54 24.00 -1.3
 MEKA 53.76 260 eP 54 25.00 -1.6
 MBL 55.04 267 eP 54 34.00 -2.2
 SPA 56.11 180 eP 54 43.70 0.2
 1.1s 14.29nm 4.9mb
 NANU 57.97 263 eP 54 55.50 -1.5
 MAW 68.61 201 e(P) 56 08.00 1.4
 MAT 80.82 326 eP 57 20.00 2.9X
 BCH 88.17 45 P 57 55.00 0.8
 PRS 88.24 43 eP 57 55.50 1.1
 BAR 88.50 48 eP 58 08.00 12.3X
 PRI 88.51 44 eP 57 57.50 1.7
 LLA 88.69 43 eP 57 57.50 1.0
 PLM 88.83 48 P 57 58.00 0.5
 SBB 89.16 46 eP 58 08.00 9.1X
 FRI 89.65 43 eP 58 02.50 1.5
 TPC 89.84 48 eP 58 03.00 0.9
 GLA 89.90 49 eP 58 03.00 0.6
 WHN 89.94 308 eP 58 04.50 2.0
 CMB 90.00 42 eP 58 03.00 0.2
 GSC 90.19 46 eP 58 04.00 0.3
 ORV 90.47 41 e(P) 58 05.50 0.7
 WDC 90.65 39 eP 58 05.00 -0.6
 MIN 90.98 40 eP 58 05.30 -2.0
 KVN 91.99 43 P 58 11.50 -0.6
 SNY 92.12 321 eP 58 10.70 -1.6
 CN2 92.59 323 Pc 58 14.20 -0.2
 Z 18s 0.30um 4.8Msz
 BJI 94.98 316 P 58 24.00 -1.5
 Z 20s 0.30um 4.8Msz
 ePP 02 18.00
 eSKS 09 00.00
 eS 09 38.00
 eSS 09 48.00
 ALO 96.46 52 eP 58 29.00 -3.7X
 Z 18s 0.86um 5.3Msz
 FBA 101.61 13 Pd diff 58 58.50 3.5X
 0.8s 1.38nm 4.6mb
 pP 59 09.50
 MBC 116.15 13 ePKP 03 45.00 -0.7X
 1.0s 4.00nm
 SOD 143.51 344 iPKP 04 34.40 -3.0X
 i 04 45.80
 AKU 146.32 14 iPKP 04 44.90 2.8X
 1.2s 56.25nm
 BCAA 146.34 213 iPKPc 04 43.30 -0.5
 1.0s 50.00nm
 i 04 49.00
 SUF 147.28 339 iPKP 04 44.80 1.0
 0.8s 42.50nm
 NUR 149.43 337 ePKP 04 50.00 2.8X
 0.7s 30.70nm
 i 05 03.60
 LISJ 150.97 274 PKP 04 56.70 6.3X
 GLH 151.17 277 ePKP 04 55.30 4.6X
 MKT 151.17 273 ePKP 04 56.80 5.9X
 BHL 151.40 280 PKP 04 58.00 6.8X
 RMN 151.48 272 ePKP 04 57.40 6.1X
 LIC 151.72 167 PKP 04 58.20 6.1X
 Z 20s 0.35um 5.2Msz
 KIC 151.91 168 PKP 04 58.10 5.7X
 UPP 152.00 342 iPKP 04 57.30 6.2X
 i 04 58.30
 TIC 152.14 167 PKP 04 58.56 5.8X
 NAO 152.49 350 PKP 04 57.00 5.2X
 0.8s 21.60nm
 HFS 152.64 346 ePKP 04 58.50 6.5X
 0.6s 4.30nm
 DHLJ 155.07 271 PKPd 04 55.80 -0.4
 VRI 157.18 309 ePKPd 05 15.00 16.4X

KRA 158.85 325 ePKP 05 00.20 -0.2
 e 05 18.70
 KHC 162.32 332 ePKP 05 04.20 0.1
 e 05 52.00
 SOTA 164.79 333 e(PKP) 05 05.00 -1.6
 1.5s 26.40nm
 e 05 21.50
 i 06 02.00
 i 06 14.20
 IFR 174.81 94 iPKP 05 15.50 2.7X
 on 05 24.00
 S.D. = 1.3 on 55 of 85 obs.

% AUG 26, 1990 14h 41m 59.37±0.87s
 40.468 N ± 9.0km 15.688 E ± 6.9km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN ITALY (390)

SGO 0.30 287 P 42 05.30 -0.4
 eSg 42 10.70
 MGR 0.35 197 P 42 05.40 -1.1
 eSg 42 11.10
 ORI 0.71 124 P 42 13.00 -0.4
 eSg 42 23.50
 BSS 0.74 296 P 42 14.80 0.8
 eSg 42 25.30
 TDS 0.95 148 P 42 19.10 1.6
 BRT 1.22 70 P 42 21.50 -0.6
 S.D. = 1.3 on 6 of 6 obs.

* AUG 26, 1990 15h 01m 17.82±1.32s
 34.101 S ± 10.1km 179.439 W ± 22.4km
 DEPTH = 33.0km (normol)
 4.4mb (2 obs.)
 SOUTH OF KERMADEC ISLANDS (179)

HBZ 3.94 207 P 02 18.50 1.0
 PUZ 4.38 205 eP 02 22.40 -1.4
 eS 03 18.80
 NOZ 4.95 204 eP 02 32.10 0.4
 eS 03 30.60
 ASPA 41.85 272 iPc 09 07.10 0.6
 0.8s 9.00nm 4.6mb
 WRA 43.17 277 Pc 09 17.20 -0.1
 0.6s 4.10nm 4.3mb
 WB5 43.18 277 eP 09 17.70 0.4
 WARB 46.84 265 eP 09 45.50 -1.1
 BCAA 146.08 213 ePKPd 20 56.10 0.3
 0.8s 7.00nm
 i 21 04.80
 SUF 147.16 338 iPKP 20 55.70 -0.2
 0.7s 4.80nm
 NUR 149.29 337 iPKP 21 11.00 11.6X
 NAO 152.44 349 PKP 21 09.10 5.0X
 0.7s 2.20nm
 HFS 152.57 346 ePKP 21 07.70 3.4X
 0.5s 0.90nm
 S.D. = 0.9 on 9 of 12 obs.

? AUG 26, 1990 15h 07m 40.25±5.84s
 33.653 S ± 10.3km 176.693 W ± 76.6km
 DEPTH = 33.0km (normol)
 5.2mb (4 obs.)
 SOUTH OF KERMADEC ISLANDS (179)

HBZ 5.67 225 eP 09 05.50 1.2
 eS 10 06.00
 NOZ 6.54 219 eP 09 17.80 1.3
 MTW 9.73 217 P 09 57.20 -3.7X
 S 11 42.00
 KIW 9.82 220 eP 09 57.60 -4.6X
 eS 11 43.20
 BLW 9.90 217 eP 10 01.40 -1.8
 S 11 47.40
 MRW 10.19 220 eP 10 04.60 -2.7
 S 11 51.70
 WEL 10.20 219 eP 10 09.00 1.6
 S 11 52.00
 TCW 10.41 221 eP 10 06.20 -4.1X
 THZ 11.54 222 eP 10 25.60 -0.2
 S 12 23.50
 KHZ 11.65 218 eP 10 27.50 0.4
 LTZ 12.58 220 eP 10 39.30 -0.3
 DZM 18.82 303 iPd 11 59.00 -0.7
 ASPA 44.13 270 eP 15 48.20 0.7
 0.6s 31.00nm 5.3mb
 WRA 45.40 275 Pc 15 57.40 -0.3

0.4s 10.40nm 5.1mb
 WB5 45.40 275 eP 15 57.80 0.1
 FORR 46.31 258 eP 16 05.10 0.4
 0.4s 24.00nm 5.5mb
 MBL 56.93 265 iPd 17 25.10 0.3
 0.3s 4.00nm 4.9mb
 SUF 147.54 341 ePKP 27 29.00 10.0X
 BCAO 147.65 209 ePKPd 27 34.40 13.7X
 0.6s 16.00nm
 i 27 43.00
 LIC 151.63 162 PKP 27 44.30 17.5X
 KIC 151.83 163 PKP 27 44.70 17.6X
 NAO 152.38 352 PKP 27 41.40 15.0X
 0.8s 2.40nm
 HFS 152.64 349 ePKP 27 41.20 14.4X
 0.5s 0.80nm
 S.D. = 1.3 on 14 of 23 obs.

? AUG 26, 1990 15h 13m 13.89±5.98s
 34.208 S ±11.8km 177.570 W ±75.6km
 DEPTH = 33.0km (normal)
 5.0mb (3 obs.)

SOUTH OF KERMADEC ISLANDS (179)

HBZ 4.76 224 eP 14 25.60 0.5
 PUZ 5.13 220 P 14 30.70 0.3
 S 15 27.20
 NOZ 5.65 218 eP 14 39.80 2.1
 TAZ 6.25 228 eP 14 46.60 0.4
 NGZ 7.39 226 eP 15 00.30 -2.1
 CNZ 7.44 226 eP 15 02.20 -0.8
 DZM 18.54 307 iPd 17 31.10 1.2
 ASPA 43.40 271 eP 21 15.00 -0.2
 0.6s 18.00nm 5.0mb
 WRA 44.72 276 Pc 21 25.20 -0.7
 0.6s 11.00nm 4.9mb
 WB5 44.73 276 eP 21 25.90 -0.1
 WARB 48.37 264 eP 21 54.00 -0.7
 0.5s 10.00nm 5.1mb
 BCAO 146.81 210 iPKPd 33 01.90 8.9X
 0.7s 6.00nm
 SUF 147.81 340 iPKP 33 04.20 11.2X
 0.5s 8.80nm
 NUR 149.99 338 iPKP 33 09.20 12.7X
 0.9s 18.60nm
 NAO 152.82 351 PKP 33 16.00 15.3X
 0.7s 4.20nm
 S.D. = 1.2 on 11 of 15 obs.

* AUG 26, 1990 16h 07m 18.36±0.99s
 39.472 N ±8.8km 21.009 E ±16.0km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 MD 3.3 (ATH).

KZN 1.02 35 ePn 07 36.50 -1.2
 VLS 1.33 194 ePn 07 42.70 -0.3
 OHR 1.65 354 iPn 07 47.90 0.4
 iSg 08 14.60
 Lg 08 20.10
 PLG 2.08 64 ePn 07 55.00 1.3
 VAY 2.20 32 ePn 07 54.60 -0.8
 ITM 2.40 162 ePn 08 02.30 4.0X
 SKO 2.52 7 ePn 08 00.50 0.5
 S.D. = 1.2 on 6 of 7 obs.

* AUG 26, 1990 16h 37m 09.38±1.07s
 19.680 S ±10.6km 69.599 W ±15.1km
 DEPTH = 117.5 ±14.4 km
 4.2mb (1 obs.)

NORTHERN CHILE (123)

CNCB 3.24 29 iPd 38 00.50 0.4
 LPB 3.44 25 Pc 38 56.00 53.4X
 1.0s 1120.00nm
 ARE 3.67 330 eP 38 06.00 0.4
 iS 38 46.50
 ZOBO 3.67 23 Pc 38 05.90 0.0
 ANT 4.08 191 e(P) 38 11.00 0.2
 PT02 9.38 315 iP 39 21.80 -1.2
 NNA 10.34 317 iP 39 48.50 12.5X
 0.8s 5.22nm
 iS 41 30.50
 KIC 68.83 75 P 48 02.00 -1.5
 YKA 89.26 341 eP 49 54.70 1.8
 0.7s 1.60nm 4.2mb
 S.D. = 1.6 on 7 of 9 obs.

* AUG 26, 1990 18h 52m 24.19±0.63s
 3.405 S ±8.6km 135.668 E ±13.6km
 DEPTH = 33.0km (normal)
 5.0mb (4 obs.) 4.2Msz (2 obs.)

WEST IRIAN REGION (196)

MTN 10.40 205 eP 54 55.00 0.8
 PMG 12.87 118 eP 55 29.00 1.4
 WB5 16.42 184 eP 56 12.00 -1.9
 i 56 28.00
 eS 59 14.40
 WRA 16.49 184 Pc 56 12.80 -2.0
 0.8s 5.50nm 3.7mb X
 CTA 19.53 149 eP 56 51.00 -1.1
 0.9s 21.85nm 4.4mb
 ASPA 20.22 185 eP 57 01.40 2.1
 0.7s 78.00nm 5.2mb
 Z 19s 1.08um 4.2Msz
 eS 00 43.10
 LR 05 17.10
 MBL 23.43 220 eP 57 35.00 3.6X
 WARB 24.25 200 eP 57 43.50 4.1X
 FORR 28.22 194 eP 58 17.00 0.9
 CHG 42.35 303 iPd 00 18.20 1.0
 KMI 42.72 313 Pd 00 20.00 -0.4
 BJI 46.79 339 eP 00 50.50 -2.0
 1.2s 16.00nm 4.9mb
 Z 20s 0.30um 4.2Msz
 LZH 49.27 326 Pd 01 11.00 -1.1
 2.0s 64.00nm 5.3mb
 pP 01 17.50 22kmX
 GUN 57.12 306 P 02 11.50 0.8
 PKI 57.36 306 P 02 12.00 -0.3
 KKN 57.55 306 P 02 13.80 0.3
 DMN 57.62 306 P 02 14.80 0.7
 GKN 58.16 306 P 02 18.20 0.5
 CNCB 149.19 131 PKP 12 13.70 5.5X
 LPB 149.27 131 ePKP 12 12.00 3.8X
 ZOBO 149.42 130 PKP 12 09.00 0.4
 S.D. = 1.3 on 17 of 21 obs.

* AUG 26, 1990 20h 37m 58.54±2.07s
 16.668 N ±13.3km 60.879 W ±20.0km
 DEPTH = 52.7 ±24.4 km

LEEWARD ISLANDS (92)

ML 3.5 (FDF).

SFG 0.51 217 ePd 38 09.99 -0.2
 S 38 17.30
 MGG 0.86 209 ePd 38 14.60 0.1
 S 38 26.00
 DOG 0.95 228 eP 38 16.20 0.3
 PAG 1.00 231 ePc 38 16.51 0.0
 S 38 30.70
 BPA 1.01 292 ePc 38 16.90 0.2
 BBL 1.28 207 eP 38 20.30 -0.1
 S 38 36.80
 MGH 1.28 273 ePc 38 20.31 -0.1
 NEV 1.69 286 eP 38 25.90 -0.2
 CRM 1.90 181 iPc 38 29.37 0.2
 FDF 1.94 188 iPc 38 29.28 -0.4
 S 38 51.50
 MVM 2.10 180 iPd 38 32.09 0.1
 S 38 56.20
 S.D. = 0.3 on 11 of 11 obs.

? AUG 26, 1990 21h 28m 49.84±3.88s
 34.318 S ±10.2km 177.208 W ±48.1km
 DEPTH = 33.0km (normal)
 4.8mb (3 obs.)

SOUTH OF KERMADEC ISLANDS (179)

HBZ 4.90 227 eP 30 03.00 0.0
 eS 30 54.10
 PUZ 5.24 223 P 30 08.50 0.5
 S 31 03.60
 NOZ 5.75 220 eP 30 16.80 1.7
 eS 31 16.00
 TAZ 6.40 231 eP 30 24.60 0.3
 WLZ 6.81 237 eP 30 28.70 -1.3
 PGZ 8.15 218 eP 30 47.80 -0.9
 DZM 18.85 306 iPd 33 10.50 0.8
 ASPA 43.70 271 iPd 36 53.30 -0.3
 0.8s 15.00nm 4.8mb
 WRA 45.03 276 Pd 37 04.10 -0.2
 0.6s 8.20nm 4.8mb

WB5 45.04 276 eP 37 04.10 -0.3
 WARB 48.66 264 eP 37 32.50 -0.3
 0.4s 6.00nm 5.0mb
 BCAO 146.86 210 iPKPc 48 41.10 12.1X
 0.5s 6.00nm
 SUF 148.02 340 iPKP 48 42.20 12.9X
 0.4s 4.20nm
 NUR 150.20 338 ePKP 48 48.00 15.3X
 LIC 151.12 164 PKP 48 54.20 18.6X
 NAO 152.97 351 PKP 48 54.10 17.3X
 0.7s 2.70nm
 HFS 153.20 348 ePKP 48 53.70 16.5X
 0.5s 1.30nm
 S.D. = 0.9 on 11 of 17 obs.

? AUG 26, 1990 21h 31m 28.61±1.04s
 21.595 S ±16.3km 69.715 W ±50.3km
 DEPTH = 90.6 ±14.7 km
 4.9mb (1 obs.)

NORTHERN CHILE (123)

ANT 2.20 197 iPc 32 04.00 0.0
 iS 32 44.00
 CNCB 5.03 19 P 32 43.80 0.1
 LPB 5.26 17 P 32 48.00 1.2
 ZOBO 5.51 16 P 32 49.00 -1.3
 SCH 76.14 2 eP 43 08.00 0.1
 BCAO 89.99 85 iPc 44 19.70 -0.1
 0.6s 5.00nm 4.9mb
 S.D. = 1.3 on 6 of 6 obs.

? AUG 26, 1990 21h 34m 14.52±1.43s
 9.742 N ±19.4km 40.871 W ±35.5km
 DEPTH = 10.0km (geophysicist)
 4.6mb (6 obs.)

CENTRAL MID-ATLANTIC RIDGE (406)

ZOBO 37.36 226 P 41 29.00 -1.0
 1.0s 13.75nm 4.7mb
 LR 53 08.00
 LPB 37.51 226 P 41 32.00 0.9
 CNCB 37.62 226 P 41 32.20 0.1
 TUL 56.08 307 eP 43 55.70 -0.6
 1.2s 5.50nm 4.5mb
 NAO 63.52 25 P 44 46.20 -0.9
 1.3s 8.40nm 4.8mb
 FFC 65.59 326 iPc 45 00.80 0.2
 0.9s 12.00nm 5.1mb
 YKA 73.91 332 eP 45 50.00 -1.4
 0.9s 1.70nm 4.1mb
 MBC 77.86 346 eP 46 15.00 1.5
 1.0s 6.00nm 4.6mb
 INK 82.00 338 eP 46 37.00 1.2
 S.D. = 1.2 on 9 of 9 obs.

AUG 26, 1990 21h 51m 21.31±0.22s
 9.526 N ±4.8km 40.602 W ±3.4km
 DEPTH = 10.0km (geophysicist)
 4.9mb (41 obs.) 4.3Msz (6 obs.)

CENTRAL MID-ATLANTIC RIDGE (406)

CAI 16.31 168 eP 55 12.80 0.6
 BAO 26.05 196 eP 56 56.50 -0.4
 BOG 33.55 264 e(P) 58 06.00 1.8
 LKO 34.52 87 P 58 09.54 -2.7
 1.0s 19.00nm 5.0mb
 TIC 35.33 92 P 58 17.16 -2.0
 LIC 35.38 93 P 58 17.72 -1.8
 Z 20s 0.40um 4.2Msz
 KIC 35.64 92 P 58 20.16 -1.6
 CCH 36.77 223 P 58 34.00 2.5
 ZOBO 37.40 227 iPd 58 37.40 0.3
 S 04 40.00
 LR 09 18.00
 PSO 37.45 259 eP 58 38.00 0.5
 LPB 37.56 227 P 58 40.20 1.9
 1.0s 80.00nm 5.4mb
 TIO 37.61 51 iP 58 39.50 1.2
 CNCB 37.66 226 P 58 40.10 0.8
 ARE 40.01 230 eP 58 57.00 -1.7
 IFR 40.41 48 iP 59 09.00 0.4X
 NKM 41.14 46 eP 59 08.00 7.6
 i 59 08.50
 EPRU 42.04 44 eP 59 17.00 2.2
 EHOR 42.48 43 eP 59 19.80 1.5
 MAL 42.48 45 eP 59 21.00 2.6
 ATEJ 42.85 45 eP 59 22.90 1.3

26d 23h

ALO 90.61 48 eP 26 21.50 0.9
1.0s 5.00nm 4.4mb
LOR 91.73 331 eP 26 25.80 0.5
0.8s 2.70nm 4.3mb
LPL 91.84 328 eP 26 25.90 -0.2
0.6s 2.25nm 4.3mb
LPG 91.85 328 eP 26 26.10 -0.1
0.7s 3.30nm 4.4mb
LBF 91.91 330 eP 26 25.70 -0.5
0.8s 2.00nm 4.2mb
SSF 92.05 331 eP 26 26.70 0.0
0.8s 2.70nm 4.3mb
SMF 92.23 330 eP 26 27.50 -0.1
1.0s 7.00nm 4.6mb
LDF 92.26 334 eP 26 27.50 -0.2
0.6s 2.70nm 4.4mb
AVF 92.32 331 eP 26 27.90 -0.1
0.8s 4.05nm 4.5mb
GRR 92.71 334 eP 26 29.70 -0.1
0.8s 5.35nm 4.6mb
LPF 93.07 334 eP 26 31.60 0.2
0.8s 5.35nm 4.6mb
TCF 93.20 331 eP 26 32.10 0.0
0.8s 2.70nm 4.3mb
LSF 93.51 331 eP 26 33.50 0.0
0.8s 5.35nm 4.7mb
CNCB 152.41 65 ePKP 32 57.00 -8.3X
BAO 163.65 21 ePKP 33 18.80 0.9
S.D. = 0.8 on 86 of 92 obs.

* AUG 27, 1990 00h 05m 56.34 ± 0.79s
22.603 N ± 7.8km 121.514 E ± 9.5km
DEPTH = 33.0km (normol)
4.1mb (2 obs.)
TAIWAN REGION (243)

ANP 2.57 0 eP 06 37.80 1.1
eS 06 52.50
QZH 3.55 312 Pgd 06 50.10 -0.3
Sn 07 31.20
GZH 7.55 275 eP 07 46.20 -0.7
eS 09 08.70
SSE 8.46 358 eP 07 55.50 -4.1X
Z 10s 0.50um
E 10s 0.50um
NJZ 9.70 346 eP 08 14.50 -2.2
Z 10s 0.20um
N 10s 0.60um
E 10s 0.40um
S 10 00.00
WHN 10.18 322 eP 08 24.00 0.8
eS 10 12.50
QIZ 11.48 254 eP 08 40.90 -0.1
N 10s 0.80um
GYA 14.05 289 P 09 16.60 1.2
TIY 16.97 335 eP 09 56.00 3.2X
E 13s 1.10um
SNY 19.25 5 eP 10 21.50 0.8
E 18s 0.60um
eS 13 54.00
HMC 20.04 338 eP 10 24.60 -4.9X
CN2 21.39 8 eP 10 40.00 -3.2X
MDJ 22.94 15 eP 10 58.00 -0.6
WB5 44.05 162 eP 14 02.70 -0.2
WRA 44.10 163 Pc 14 03.70 0.3
1.2s 4.40nm 4.1mb
YKA 84.30 23 eP 18 30.70 4.8X
0.6s 0.80nm 4.1mb
S.D. = 1.1 on 11 of 16 obs.

* AUG 27, 1990 00h 18m 38.60 ± 0.84s
36.460 N ± 10.8km 7.566 W ± 18.0km
DEPTH = 10.0km (geophysicist)
STRAIT OF GIBRALTAR (385)
MD 2.9 (RBA).

FAR 0.65 330 iPc 18 51.70 0.2
iS 18 59.00
FIG 0.67 342 iPc 18 51.70 -0.3
iS 18 57.00
iSg 18 59.30
NKM 2.02 119 iP 19 13.80 0.7
eS 19 33.20
i 19 38.00
MOE 2.15 343 eP 19 11.50 -3.5X
iS 19 34.00
IFR 3.55 145 iP 19 34.00 -1.1

TIO 5.53 177 iS 19 36.00
iS 20 12.00
iS 20 03.50 0.5
iS 21 02.00
S.D. = 1.0 on 5 of 6 obs.

? AUG 27, 1990 00h 22m 46.51 ± 0.95s
37.857 N ± 11.9km 14.974 E ± 11.0km
DEPTH = 33.0km (normol)

SICILY (398)
MNO 0.23 289 P 22 53.80 0.1
eSg 23 00.10
ATN 0.49 52 P 22 56.70 -0.3
eSg 23 04.30
MEU 0.76 183 P 23 00.70 -0.1
eSg 23 09.80
SOI 0.88 76 P 23 02.80 0.3

S.D. = 0.5 on 4 of 4 obs.
% AUG 27, 1990 00h 26m 46.99 ± 0.87s
37.699 N ± 7.7km 15.099 E ± 6.8km
DEPTH = 10.0km (geophysicist)

SICILY (398)
MNO 0.40 306 P 26 55.20 0.1
eSg 27 01.60
ATN 0.54 32 P 26 57.20 -0.8
eSg 27 06.30
MEU 0.61 193 P 26 59.10 -0.3
eSg 27 08.00
SOI 0.84 64 P 27 04.00 0.8
eSg 27 14.50
GIB 0.90 289 P 27 04.50 0.3

S.D. = 0.8 on 5 of 5 obs.
% AUG 27, 1990 00h 28m 05.06 ± 0.85s
37.698 N ± 7.5km 15.123 E ± 6.6km
DEPTH = 10.0km (geophysicist)

SICILY (398)
MNO 0.41 305 P 28 13.40 -0.1
eSg 28 20.70
ATN 0.53 30 P 28 15.40 -0.5
eSg 28 23.70
MEU 0.62 195 P 28 17.30 -0.2
eSg 28 25.50
SOI 0.83 63 P 28 21.50 0.5
eSg 28 33.00
GIB 0.92 289 P 28 23.00 0.4

S.D. = 0.6 on 5 of 5 obs.
% AUG 27, 1990 00h 28m 47.24 ± 1.73s
37.893 N ± 29.6km 15.083 E ± 7.9km
DEPTH = 10.0km (geophysicist)

SICILY (398)
MNO 0.31 277 P 28 53.30 -0.5
eSg 29 00.40
ATN 0.40 48 P 28 55.50 0.0
eSg 29 04.50
SOI 0.79 77 P 29 02.50 -0.1
eSg 29 14.00
GIB 0.84 277 P 29 04.00 0.5

S.D. = 0.7 on 4 of 4 obs.
% AUG 27, 1990 00h 38m 05.54 ± 1.46s
38.056 N ± 17.6km 15.004 E ± 10.4km
DEPTH = 10.0km (geophysicist)

SICILY (398)
MNO 0.27 243 P 38 11.50 0.1
eSg 38 17.00
ATN 0.38 74 P 38 12.50 -0.8
eSg 38 20.40
SOI 0.83 89 P 38 22.50 0.9
eSg 38 31.50
MEU 0.95 184 P 38 23.50 -0.3

S.D. = 1.3 on 4 of 4 obs.
% AUG 27, 1990 01h 02m 05.86 ± 0.78s
37.707 N ± 7.4km 15.132 E ± 6.4km
DEPTH = 10.0km (geophysicist)

SICILY (398)
MNO 0.41 303 P 02 13.90 -0.4
eSg 02 19.10

ATN 0.52 30 P 02 15.80 -0.7
eSg 02 25.40
MEU 0.63 195 P 02 17.80 -0.7
SOI 0.82 63 P 02 21.70 0.1
eSg 02 33.90

GIB 0.92 288 P 02 23.00 -0.5
FAI 1.24 250 P 02 30.00 1.2
TDS 2.17 25 P 02 43.50 1.0
S.D. = 1.0 on 7 of 7 obs.

% AUG 27, 1990 01h 07m 35.25 ± 1.12s
37.765 N ± 13.1km 15.094 E ± 6.5km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO 0.36 298 P 07 42.90 0.2
eSg 07 49.60
ATN 0.49 36 P 07 45.00 -0.2
eSg 07 54.00
SOI 0.82 68 P 07 51.30 0.2
eSg 08 02.40

GIB 0.87 285 P 07 52.00 -0.1
FAI 1.23 247 P 07 58.00 -0.1
S.D. = 0.3 on 5 of 5 obs.

? AUG 27, 1990 01h 08m 50.86 ± 1.31s
37.952 N ± 26.7km 15.156 E ± 8.2km
DEPTH = 10.0km (geophysicist)
SICILY (398)

ATN 0.32 49 P 08 57.50 0.0
eSg 09 06.50
MNO 0.37 267 P 08 58.50 0.1
eSg 09 02.90
SOI 0.72 80 P 09 05.00 0.0
eSg 09 15.50

GIB 0.89 273 P 09 08.00 -0.1
S.D. = 0.1 on 4 of 4 obs.
% AUG 27, 1990 01h 11m 02.04 ± 2.24s
37.761 N ± 24.6km 15.117 E ± 7.1km
DEPTH = 10.0km (geophysicist)

SICILY (398)
MNO 0.37 297 P 11 09.50 -0.3
eSg 11 16.50
ATN 0.48 34 P 11 12.00 0.1
eSg 11 21.00
SOI 0.80 67 P 11 17.50 -0.1
eSg 11 30.00

GIB 0.89 285 P 11 19.50 0.3
eSg 11 34.50
S.D. = 0.5 on 4 of 4 obs.

% AUG 27, 1990 01h 29m 22.64 ± 0.76s
37.716 N ± 7.3km 15.139 E ± 6.2km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO 0.41 302 P 29 30.90 -0.2
eSg 29 36.80
ATN 0.51 30 P 29 33.10 0.1
eSg 29 42.00
MEU 0.64 195 P 29 34.80 -0.7
eSg 29 44.90

SOI 0.81 64 P 29 39.20 0.9
eSg 29 50.80
GIB 0.92 288 P 29 40.50 0.2
eSg 29 55.00

FAI 1.24 250 P 29 46.50 0.8
TDS 2.15 25 P 29 58.00 -1.1
S.D. = 0.9 on 7 of 7 obs.

AUG 27, 1990 01h 53m 33.70 ± 0.35s
3.453 N ± 6.1km 126.440 E ± 9.7km
DEPTH = 33.0km (normol)
4.9mb (14 obs.) 4.2Msz (1 obs.)
TALAUD ISLANDS (263)

JAY 15.44 112 ePc 57 12.70 1.8
MTN 16.85 164 eP 57 27.00 -1.8
0.4s 31.00nm 4.8mb
QIZ 22.42 315 eP 58 36.00 4.8X
WB5 24.46 162 eP 58 50.70 -0.3
WRA 24.51 162 Pd 58 51.20 -0.3

0.7s 29.00nm 5.0mb
ASPA 27.92 165 eP 59 26.20 3.1X

27d 03h

SOI 0.81 63 P eSg 34 03.00 0.3
 GIB 0.93 288 P eSg 34 08.60 0.0
 FAI 1.25 250 P eSg 34 13.00 0.7
 S.D. = 0.6 on 6 of 6 obs.

% AUG 27, 1990 03h 36m 02.79 ± 0.75s
 37.710 N ± 6.9km 15.142 E ± 5.9km
 DEPTH = 10.0km (geophysicist)
 SICILY (398)

MNO 0.42 302 Pc eSg 36 11.10 -0.3
 ATN 0.52 29 Pc eSg 36 17.50 -0.2
 MEU 0.63 196 Pc eSg 36 22.40 -0.4
 SOI 0.81 63 P eSg 36 25.40 0.3
 GIB 0.93 288 P eSg 36 30.80 0.0
 FAI 1.24 250 P eSg 36 35.50 0.6
 S.D. = 0.5 on 6 of 6 obs.

% AUG 27, 1990 03h 44m 26.54 ± 0.83s
 37.692 N ± 7.3km 15.133 E ± 6.5km
 DEPTH = 10.0km (geophysicist)
 SICILY (398)

MNO 0.42 305 Pd eSg 44 35.10 -0.1
 ATN 0.54 29 P eSg 44 42.60 -0.3
 MEU 0.61 195 Pc eSg 44 45.20 -0.1
 SOI 0.82 62 P eSg 44 49.60 0.3
 GIB 0.92 289 P eSg 44 54.30 0.2
 S.D. = 0.3 on 5 of 5 obs.

% AUG 27, 1990 03h 46m 09.72 ± 0.77s
 37.695 N ± 7.0km 15.144 E ± 6.1km
 DEPTH = 10.0km (geophysicist)
 SICILY (398)

MNO 0.43 304 Pd eSg 46 18.20 -0.3
 ATN 0.53 28 P eSg 46 25.80 -0.2
 MEU 0.62 196 P eSg 46 28.10 -0.5
 SOI 0.81 62 P eSg 46 31.70 0.4
 GIB 0.93 289 P eSg 46 38.40 -0.1
 FAI 1.24 251 P eSg 46 42.50 0.7
 S.D. = 0.6 on 6 of 6 obs.

% AUG 27, 1990 03h 46m 47.00 ± 0.73s
 37.729 N ± 7.0km 15.083 E ± 5.8km
 DEPTH = 10.0km (geophysicist)
 SICILY (398)

MNO 0.37 303 P eSg 46 54.30 -0.3
 ATN 0.52 35 P eSg 47 00.70 -0.3
 MEU 0.64 191 P eSg 47 05.30 -0.5
 SOI 0.84 66 P eSg 47 08.60 0.5
 GIB 0.88 288 P eSg 47 16.80 0.1
 FAI 1.21 248 P eSg 47 19.00 0.5
 S.D. = 0.6 on 6 of 6 obs.

% AUG 27, 1990 04h 01m 37.63s
 60.878 N 151.582 W
 DEPTH = 73.3km
 KENAI PENINSULA, ALASKA (14)
 <AGS-P>

NKA 0.22 129 eP 01 50.10 1.3
 SPU 0.38 323 iP 01 49.40 -0.6

CGLM 0.48 335 iP eS 01 58.56 -0.7
 CRP 0.48 325 iP eS 02 00.10 -0.5
 CKL 0.49 311 iP eS 02 00.90 -0.7
 RDT 0.51 233 iP eS 02 01.52 -0.7
 BGL 0.55 315 iP eS 02 01.81 -0.6
 NCG 0.60 332 iP eS 02 01.81 -0.6
 SUA 0.71 34 iP eS 02 02.57 -0.4
 RED 0.75 232 iP eS 02 04.58 -0.7
 SLKM 0.77 118 iP eS 02 05.91 -0.5
 NNL 0.85 170 eP eS 02 06.12 0.5
 PMS 1.05 69 iP eS 01 55.27 -0.3
 SKT 1.11 1 iP eS 01 56.94 -0.7
 PWA 1.13 46 eP eS 01 57.19 -0.2
 HOM 1.22 181 eP eS 01 57.96 -0.6
 SEW 1.31 125 iP eS 02 16.12 -1.2
 CNPM 1.37 173 eP eS 01 59.33 -0.9
 PLRM 1.39 58 eP eS 02 00.50 -1.2
 GHO 1.56 54 eP eS 02 00.35 -1.2
 CUT 1.66 22 eP eS 02 02.98 -1.1
 PDB 1.70 231 iP eS 02 04.55 -0.6
 SML 1.82 58 eP eS 02 04.26 -1.5
 SVW 1.98 278 iP eS 02 24.09 -1.4
 CDD 2.21 209 eP eS 02 06.17 -2.0
 BGM 2.36 232 eP eS 02 07.73 -2.0
 VZW 2.46 84 eP eS 02 12.14 -0.8
 VLZ 2.57 82 eP eS 02 12.27 -2.6
 KLU 2.81 75 eP eS 02 13.68 -2.6
 TOA 2.87 62 eP eS 02 15.33 -2.4
 GLB 3.81 78 eP eS 02 18.78 -2.5
 31 obs. associated

AUG 27, 1990 04h 11m 59.83 ± 0.34s
 26.109 S ± 9.0km 177.553 W ± 7.1km
 DEPTH = 33.0km (normal)
 5.2mb (7 obs.) 5.4Msz (8 obs.)
 SOUTH OF FIJI ISLANDS (171)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 155, 32C
 Centroid Location:
 Origin Time 04:12: 4.9 0.3
 Lat 25.785 0.03 Lon 177.91W 0.03
 Dep 15.0 FIX Half-duration 2.6
 Moment Tensor: Scale 10**17 Nm
 Mrr=-0.13 0.07 Mtt= 2.12 0.10
 Mff=-1.99 0.10 Mrt=-0.95 0.27
 Mrf=-0.33 0.29 Mtr= 3.44 0.08
 Principal Axes:
 T Val= 4.29 Plg=13 Azm=151
 N -0.34 77 318
 P -3.95 3 60
 Best Double Couple: Mo=4.1*10**17
 NP1: Strike=195 Dip=79 Slip= 173
 NP2: 286 83 11

SVA 8.77 334 ePc 14 04.60 -2.7
 NDF 9.52 330 eP 14 17.60 0.0
 DZM 15.15 282 iPc 15 32.60 -0.7
 PVC 15.53 300 iPc 15 38.50 0.5
 RAR 17.00 77 P 15 50.00 -6.7X
 HNR 27.02 304 eP 18 45.00 -4.9X
 RIV 28.10 247 iPd 17 36.00 -22.00
 CAN 30.07 244 eP 18 09.00 18.4X
 BWA 30.43 246 eP 18 08.70 0.3
 TOO 33.21 241 eP 18 09.20 -2.3
 CTA 33.75 273 iPd- 18 36.00 0.1
 1.1s 136.71nm 5.8mb
 STK 36.04 251 iPc 24 06.00 0.3
 1.4s 23.00nm 4.9mb
 ADE 38.44 246 e(P) 19 50.80 0.5
 WB5 44.50 268 eP 21 10.50 0.3
 19 20.00 -0.3
 20 12.50 2.3

WRA 44.50 268 P 20 14.00 3.8X
 1.3s 56.60nm 5.3mb
 SBA 52.33 184 e(P) 21 10.00 -0.1
 SPA 64.04 180 eP 22 30.70 -1.8
 1.1s 26.79nm 5.3mb
 Z 18s 2.67um 5.5Msz
 MAT 74.97 324 (P) 23 39.00 -0.6
 Z 20s 1.42um 5.3Msz
 MAW 76.45 200 eP 33 12.00 -1.5
 ADK 77.66 1 eP 23 50.70 -3.5X
 SYP 81.31 45 eP 24 08.00 -6.5X
 BCH 81.66 44 P 24 16.80 0.5
 PRI 81.92 43 eP 24 23.30 5.6X
 ABL 82.00 45 P 24 16.80 -1.4
 PAS 82.23 46 eP 24 24.00 4.8X
 BAR 82.31 48 eP 24 23.00 3.3X
 MWC 82.35 46 eP 24 20.00 0.0
 PLM 82.60 47 eP 24 26.00 4.7X
 RVR 82.65 47 eP 24 21.00 -0.4
 SBB 82.79 46 eP 24 21.00 -1.1
 FRI 83.06 43 eP 24 23.00 -0.3
 CMB 83.32 42 eP 24 23.10 -1.7
 TPC 83.59 47 eP 24 26.00 -0.3
 ORV 83.65 40 eP 24 27.80 1.4
 WDC 83.74 39 eP 24 28.50 1.7
 GLA 83.77 49 eP 24 28.00 0.8
 GSC 83.82 46 eP 24 29.00 1.5
 LBFM 84.62 39 P 24 32.20 0.7
 KVN 85.34 42 P 24 33.40 -1.7
 GMW 88.31 34 P 24 47.40 -1.7
 SVW 88.71 10 eP 24 55.70 4.9X
 MSU 88.71 46 P 24 52.70 1.1
 BJI 90.15 315 eP 24 58.00 0.1
 Z 20s 1.20um 5.3Msz
 PMR 90.36 13 P eSKS 35 32.00
 TTA 90.38 10 eP eS 35 56.00
 DAU 90.38 44 P eSS 42 04.00
 ALO 90.59 51 eP 24 59.00 0.6
 1.1s 12.66nm 5.2mb
 Z 18s 3.23um 5.8Msz
 ANMO 90.59 51 P 25 01.20 0.8
 1.5s 31.25nm 5.4mb
 DPW 90.86 35 P 25 01.70 0.6
 PNT 91.07 34 eP 25 03.00 1.0
 KMI 92.24 297 eP 25 11.50 3.3X
 Z 18s 0.80um 5.2Msz
 CHG 92.52 290 eP S 36 18.00
 BW06 92.76 43 P 25 10.00 0.7
 1.0s 8.25nm 5.1mb
 LRM 92.76 39 eP 25 08.80 -1.4
 FBA 93.61 12 eP 25 14.80 1.5
 MEO 96.14 54 e(P) 25 24.00 -1.7
 BUL 127.47 211 iPKPd 31 01.20 -2.6X
 1.0s 6.00nm
 KRI 129.80 215 ePKP 31 08.10 -0.2X
 MAIO 130.77 296 ePKP 31 12.00 2.4X
 SOD 136.14 347 ePKP 31 21.00 2.3X
 NUR 142.40 342 ePKP 31 26.00 -4.3X
 UPP 144.67 347 ePKP 31 24.00 -10.1X
 NAO 144.83 353 PKP 31 30.40 -4.0X
 0.8s 24.00nm
 MDSJ 149.97 289 PKPd 31 49.10 5.4X
 HRI 150.30 292 ePKP 31 48.50 4.3X
 BHL 150.31 293 PKP 31 48.00 3.8X
 SALJ 150.43 289 PKPd 31 49.50 5.1X
 JVI 150.72 289 ePKP 31 50.10 5.4X
 BBTK 151.27 306 ePKP 31 49.00 3.5X
 RMN 151.39 286 ePKP 31 50.60 4.8X
 CFR 151.93 319 ePKP 31 51.00 5.0X
 VRI 152.35 322 ePKPc 31 51.50 4.6X
 KRA 152.55 335 ePKP 31 50.30 3.5X
 MLR 153.01 322 ePKP 32 04.30
 KSP 153.12 340 ePKP 31 50.00 2.2
 153.12 340 ePKP 31 51.00 3.4X
 SPC 153.12 334 ePKP 31 58.80
 WIT 153.14 354 ePKP 31 48.70 0.8
 BCAO 153.50 218 iPKPd 31 57.00 9.5X
 0.8s 18.00nm
 CLL 153.58 345 iPKPd 32 02.50
 1.5s 12.00nm 3.5X

ESD	4.26	43 P	54 06.11	0.4	Mrf= 1.02 0.12	Mtf= 0.13 0.04	N 14s	1.50um			
SOSW	4.29	43 P	54 06.47	0.3	Principal Axes:		E 15s	1.40um <td></td> <td></td> <td></td>			
TDL	4.33	42 P	54 06.94	0.2	T Val= 1.11	Plg=58 Azm=284		S	02 51.00		
APW	4.36	36 P	54 06.64	-0.3	N 0.12	B 181	GZH	26.39 263 eP	58 32.90	4.7X	
VIPM	4.36	70 Pc	54 06.94	-0.3	P -1.23	30 86	Z 22s	2.90um		4.8Msz	
GULW	4.37	50 P	54 07.64	0.3	Best Double Couple: Mo=1.2+10+17		HHC	27.26 303 eP	58 35.00	-1.1	
KOSW	4.42	41 P	54 08.47	0.5	NP1:Strike=152 Dip=16 Slip= 61		Z 16s	100.00nm		5.4mb	
CPW	4.43	30 P	54 07.38	-0.6	NP2: 3 76 98		N 15s	6.50um		5.3MszX	
ASR	4.52	47 P	54 09.61	0.3			E 16s	3.00um			
LMW	4.53	38 P	54 09.62	0.2	IIDJ	7.00 332 eP	54 36.70	0.8			
VTHM	4.63	62 P	54 10.62	-0.3		eS 56 00.00					
VGB	4.64	58 eP	54 10.90	-0.1	CHJJ	7.12 340 P	54 35.90	-1.7			
GLK	4.78	43 P	54 13.51	0.4		S 55 55.40					
OOV	4.80	18 P	54 12.31	-1.0	WKYJ	7.27 313 eP	54 41.90	2.2			
LON	4.81	41 P	54 13.91	0.4	MAT	7.83 337 iPd+	54 46.30	-1.1			
GHW	4.82	35 P	54 14.27	0.7		0.6s 124.67nm		6.1mb X			
GL2	4.84	53 P	54 13.82	0.0		eS 56 14.00					
REMR	4.85	40 P	54 14.49	0.4	TSRJ	7.97 322 P	54 51.90	2.5X			
RVC	4.88	38 P	54 14.89	0.4	MTMJ	8.01 335 P	54 49.60	-0.4			
WPW	4.90	43 P	54 15.03	0.2		eS 56 25.00					
OSD	5.00	21 P	54 15.59	-0.7	TKSJ	8.17 306 eP	54 54.40	2.2			
FMW	5.01	40 P	54 16.80	0.4	NIJJ	8.24 343 P	54 50.20	-2.9X			
HDW	5.04	26 P	54 16.99	0.4		S 56 20.00					
GMW	5.04	29 eP	54 15.30	-1.3	YAMJ	8.94 350 P	54 59.40	-3.4X			
GSM	5.16	37 P	54 18.49	0.1	YONJ	9.25 311 eP	55 09.10	2.0			
JBO	5.21	62 P	54 18.79	-0.3	SHK	9.43 306 iPd	55 13.80	4.2X			
NAC	5.30	46 P	54 20.62	0.3		1.0s 140.00nm		6.1mb X			
RMW	5.35	35 P	54 20.66	-0.4	OFUJ	9.70 359 eP	55 07.20	-6.1X			
BLN	5.38	25 P	54 24.01	2.6		eS 56 50.00					
PATW	5.44	58 P	54 22.16	-0.1	SHNJ	10.39 300 eP	55 26.90	4.1X			
MXC	5.49	50 P	54 23.02	0.0	PJG	15.92 170 e(P)	56 44.20	8.0X			
TWW	5.54	43 P	54 25.79	1.9	GUMO	15.92 170 e(P)	56 44.80	8.6X			
EBG	5.54	46 P	54 24.19	0.4		1.3s 1019.61nm		5.8mb			
HTW	5.64	33 P	54 24.37	-0.8	Z 23s	2.60um		4.0MszX			
PRW	5.64	55 P	54 24.75	-0.4	GUA	15.98 170 e(P)	56 46.30	9.3X			
TBM	5.70	44 P	54 26.49	0.4		1.1s 263.29nm		5.3mb			
RSW	5.79	54 P	54 26.92	-0.4	SSE	18.05 281 Pc	57 02.50	-0.3			
MDW	5.81	52 P	54 27.28	-0.2		1.0s 43.00nm		4.5mb			
JCW	5.89	30 P	54 28.07	-0.6	Z 20s	2.30um		5.5Msz			
GBL	5.98	53 P	54 29.73	-0.1	N 12s	1.70um				</	

27d 12h

TWZ	1.34	325	ePc	22	25.00	0.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													</
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SMF 10.08 294 Pn 51 05.40 -2.5X
 LOR 10.24 297 Pn 51 07.70 -2.4X
 SSF 10.41 296 Pn 51 09.60 -2.8X
 AVF 10.44 294 Pn 51 11.40 -1.4X
 MEM 10.57 317 P 51 17.60 3.1X
 ENN 10.71 318 ePn 51 17.00 0.6X
 0.7s 17.00nm 5.4mb X
 BGF 10.73 292 Pn 51 14.20 -2.6X
 MAF 10.86 290 Pn 51 17.30 -1.2X
 DOU 11.01 312 P 51 20.90 0.4X
 CAF 11.07 283 Pn 51 20.00 -1.4X
 TCF 11.11 290 Pn 51 20.60 -1.4X
 SNF 11.40 313 iP 51 33.70 7.9X
 MFF 12.77 291 Pn 51 43.50 -0.7X
 LDF 13.19 299 Pn 51 49.60 -0.2X
 FLN 13.47 300 Pn 51 52.70 -0.7X
 GRR 13.60 298 Pn 51 54.70 -0.5X
 HFS 16.93 354 eP 52 36.50 -1.6X
 1.0s 7.00nm 3.7mb
 NUR 17.73 12 eP 52 52.00 4.0X
 EKA 17.83 319 Pc 52 48.00 -1.4
 0.9s 3.50nm 3.5mb
 NB2 18.07 350 P 52 49.60 -2.7X
 0.7s 3.10nm 3.6mb
 SUF 20.06 12 eP 53 15.00 -0.5
 SOD 24.57 9 eP 54 01.00 0.7
 KEV 26.91 7 eP 54 23.00 0.9

S.D. = 1.3 on 125 of 164 obs.

AUG 27, 1990 14h 49m 38.94±0.96s
 31.479 S ±13.3km 68.481 W ±10.2km
 DEPTH = 33.0km (normol)

SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.15 4 iPc 49 45.00 -0.1
 CFA 0.24 122 iPc 49 46.10 0.0
 eS 49 48.00
 RTCB 0.27 268 iPd 49 47.20 0.7
 RTBS 0.85 257 e(P) 49 53.80 -0.7
 MDZ 1.44 193 eP 50 03.00 0.1
 iS 50 23.10

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

AUG 27, 1990 15h 17m 12.03±0.12s
 6.870 S ±2.5km 125.452 E ±3.5km
 DEPTH = 506.4km (geophysicist)
 5.8mb (55 obs.)

BANDA SEA (280)

Depth from broadband

displacement seismograms.

FAULT PLANE SOLUTION: P-Waves

NP1:Strike= 60 Dip=70 Slip= -34

NP2: 163 58 -156

Principal Axes:

T P1g= 7 Azm=114

P 38 18

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 sto: 4 Focal mech. F

Energy 2.6±1.2×10¹² Nm

MOMENT TENSOR SOLUTION

Dep 530 No. of sto: 5

Moment Tensor: Scale 10¹⁷ Nm

Mrr=-0.59 Mtt=-5.30

Mff= 5.89 Mrt=-2.63

Mrf= 1.56 Mtf= 2.12

Principal axes:

T Vol= 6.45 P1g= 9 Azm=278

N 0.54 64 169
 P -6.99 24 12
 Best Double Couple: Mo=6.7×10¹⁷
 NP1:Strike= 53 Dip=66 Slip= -11
 NP2: 147 80 -156
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 10S, 23C
 Centroid Location:
 Origin Time 15:17:10.7 0.6
 Lot 7.36S 0.05 Lon 125.39E 0.03
 Dep 512.1 1.9 Half-duration 3.0
 Moment Tensor: Scale 10¹⁷ Nm
 Mrr=-0.15 0.12 Mtt=-4.53 0.16
 Mff= 4.68 0.22 Mrt=-3.40 0.21
 Mrf=-1.64 0.16 Mtf= 3.33 0.16
 Principal Axes:
 T Vol= 6.82 P1g=22 Azm=113
 N 0.00 56 241
 P -6.82 24 13
 Best Double Couple: Mo=6.8×10¹⁷
 NP1:Strike=153 Dip=56 Slip=-179
 NP2: 63 89 -34

KUPT 3.74 209 ePd 18 29.00 -0.5
 eS 18 55.00
 AAI 4.18 41 ePd 18 36.50 3.5X
 eS 19 38.00
 MTN 8.16 137 iPc 19 13.10 1.8
 KNA 9.40 160 iPd 19 26.20 1.8
 eS 21 11.00
 DAV 13.87 1 ePd- 20 13.00 2.1
 1.0s 2496.00nm 6.7mb
 WB5 15.56 147 iPc 20 29.00 0.9
 WRA 15.60 147 Pc 20 29.40 1.0
 0.4s 104.10nm 5.8mb
 KKM 15.80 324 ePd 20 32.50 2.0
 0.6s 119.00nm 5.7mb
 JAY 15.80 75 ePd 20 31.50 1.0
 NANU 18.30 210 iPd 20 56.40 1.6
 eS 25 02.00
 ASPA 18.57 155 iPc 20 59.40 1.9
 0.5s 1316.00nm 6.8mb X
 Z 22s 1.82um 3.7Msz
 eS 23 57.40
 LR 29 45.70

WARB 19.24 177 iPd 21 06.00 2.0
 MEKA 20.71 198 iPd 21 17.80 0.0
 PMG 21.63 98 eP 21 26.00 -0.3
 OCP 21.80 349 eP 21 28.50 0.6
 BAG 23.63 348 eP 21 43.90 -0.8
 KGM 23.79 291 ePc 21 47.00 1.1
 e 23 05.00
 MRWA 23.95 201 iPd 21 46.40 -0.9
 0.3s 16.00nm 5.1mb
 FORR 23.98 174 iPc 21 47.00 -0.5
 CTA 24.08 125 iPc+ 21 49.00 0.4
 1.0s 465.00nm 6.0mb
 iS 27 40.00

CTAO 24.08 125 iPc 21 48.12 -0.4
 COOL 24.23 189 eP 21 48.50 -1.3
 0.3s 9.00nm 4.8mb X
 BAL 25.00 198 iPc 21 56.10 -0.6
 KLB 25.63 195 iPd 22 01.50 -0.8
 0.3s 31.00nm 5.3mb
 MUN 26.43 198 iPd 22 09.00 -0.3
 1.0s 120.00nm 5.4mb
 RAB 26.72 86 iPd 22 12.00 -0.1
 0.7s 219.18nm 5.8mb
 eS 26 08.00

IPM 26.90 294 ePd 22 14.70 1.0
 0.6s 32.30nm 5.0mb
 e 28 11.50
 NWA0 27.03 195 iPd 22 14.50 -0.1
 GUA 28.01 44 eP 22 23.20 -0.1
 0.7s 432.88nm 6.1mb
 eS 26 28.00

GUMO 28.01 43 eP 22 23.50 0.2
 0.4s 359.20nm 6.3mb
 PJG 28.01 43 eP 22 23.50 0.2
 PSI 28.13 289 ePd 22 25.50 1.1
 SNG 28.43 299 eP 22 28.00 1.0
 1.4s 213.95nm 5.5mb
 STK 29.09 151 iPc 22 33.30 0.8
 1.0s 475.00nm 6.0mb
 ePP 23 58.10
 iS 26 43.50

OIZ 29.98 329 iPd 22 40.50 0.1
 1.1s 300.00nm 5.7mb
 S 26 58.50
 ADE 30.51 158 iPc 22 46.00 1.1
 1.0s 880.00nm 6.3mb
 CMS 31.02 145 iPc 22 49.90 0.7
 0.9s 183.00nm 5.6mb
 e 24 13.00 469kmX
 HKC 31.03 339 iP 22 50.50 1.2
 MCO 31.08 338 iP 22 50.20 0.5
 GZH 32.04 339 Pd 22 58.80 1.0
 S 27 32.00
 NNT 32.05 307 iPd 22 58.80 0.8
 OZH 32.32 348 Pd 23 00.40 0.3
 1.2s 500.00nm 5.9mb
 S 27 36.00
 BRS 32.99 131 iPc 23 04.50 -1.4
 i 23 21.00 68kmX
 i 24 32.50
 i 24 37.50
 i(ScP) 28 29.00
 NST 33.62 312 iPd 23 14.00 2.8X
 LOE 33.63 316 iPd 23 11.50 0.2
 BFD 33.95 155 iPc 23 17.80 4.0X
 0.6s 165.00nm 5.8mb
 e 24 48.00 513kmX
 HNR 34.23 97 ePc 23 17.00 0.6
 eS 24 50.00
 BWA 34.66 145 iPc 23 22.50 2.7X
 e 24 57.30
 iScP 28 35.80
 BDT 35.46 313 iPd 23 25.50 -1.1
 1.0s 638.30nm 6.1mb
 TOO 35.58 152 iPc 23 29.80 2.4
 0.9s 419.00nm 6.0mb
 e 24 56.00 458kmX
 CAN 35.63 146 iPc 23 29.20 1.3
 e 25 00.20 492kmX
 iScP 28 38.80
 CNB 35.83 146 iPd 23 31.40 1.8
 0.8s 377.00nm 6.0mb
 e 25 03.00 496kmX
 CHG 36.53 315 iPd 23 36.10 0.7
 0.9s 218.49nm 5.7mb
 CHTO 36.53 315 iPd 23 35.53 0.1
 iScP 26 04.18
 GYA 37.81 332 iPd 23 47.00 1.0
 1.0s 700.00nm 6.2mb
 PcP 25 51.00
 ScP 28 48.40
 S 28 59.00
 SS 31 38.40
 ScS 32 59.20
 SSE 37.97 354 iPd 23 47.00 0.0
 1.2s 1390.00nm 6.4mb
 PP 25 31.00
 SP 26 16.00
 ScP 28 47.20
 S 28 57.00
 KAGJ 38.20 8 P 23 49.60 0.7
 WHN 38.69 345 iPd 23 54.50 1.5
 1.1s 1000.00nm 6.3mb
 iScP 28 51.00
 S 29 12.00
 KMI 38.73 326 iP- 23 56.00 2.4
 4.0s 2.20nm 3.1mb X
 pP 25 36.00 576kmX
 sP 26 30.00
 S 29 15.00
 NJ2 39.21 351 iPd 23 57.80 0.6
 1.0s 1100.00nm 6.4mb
 PP 25 30.00
 PP 25 44.00
 ScP 28 52.50
 iS 29 19.00
 KUMJ 39.52 7 P 24 00.00 0.3
 SHNJ 41.12 7 P 24 12.70 0.1
 TKSJ 41.44 11 iPd 24 16.30 1.2
 SHK 41.74 9 iP 24 17.50 0.0
 1.0s 840.00nm 6.2mb
 WKYJ 41.98 13 P 24 20.50 1.0
 DZM 42.30 115 iPc 24 22.40 0.1
 iS 26 14.10
 YONJ 42.51 10 iPd 24 24.70 1.1
 CD2 42.93 332 iPd 24 27.00 0.0
 1.0s 700.00nm 6.1mb

LFF 119.03 318 ePKP 35 04.40 0.2
0.8s 8.05nm
FFC 119.11 29 ePKP 35 03.00 -1.1
0.4s 5.00nm
MSU 119.39 50 PKP 35 06.00 0.5
EPF 119.97 316 ePKP 35 05.80 -0.4
0.6s 2.70nm
BW06 119.98 44 PKP 35 06.00 -0.5
GOL 124.02 46 PKP 35 14.50 0.1
ANMO 124.82 52 PKP 35 16.00 0.0
ALO 124.82 52 ePKP 35 17.00 1.0
ASMO 124.88 311 ePKP 35 15.30 -0.6
APHE 124.97 311 ePKP 35 15.50 -0.7
AAPN 125.18 311 ePKP 35 16.00 -0.5
ATEJ 125.23 311 ePKP 35 16.50 -0.2
ALOJ 125.23 311 ePKP 35 20.20 3.5X
KIC 130.54 272 PKP 35 27.50 0.3
LIC 130.82 272 PKP 35 28.10 0.4
0.6s 11.00nm
TIC 130.83 273 PKP 35 27.00 -0.8
0.5s 6.00nm
LKO 131.50 277 PKP 35 27.70 -1.4
0.5s 21.00nm
TXNY 141.61 24 PKP 35 42.60 -4.4X
PT10 150.82 130 iPKP 36 10.00 7.4X
NNA 150.97 130 iPKP 36 09.30 6.4X
1.0s 225.00nm
iS 38 16.30
PT08 151.21 130 iPKPd 36 11.10 7.4X
iS 38 14.70
ARE 151.39 144 ePKP 36 10.00 6.2X
CNCB 152.98 151 PKP 36 08.00 1.6
i 38 20.00
CCH 153.32 155 PKP 36 04.40 -2.1
i 36 16.40
ZOBO 153.37 150 PKP 36 08.50 1.6
1.2s 20.95nm
i 38 23.80
SIV 156.39 164 PKP 36 11.20 0.9
i 36 42.00

S.D. = 0.9 on 193 of 213 obs.

? AUG 27, 1990 15h 30m 11.88±2.38s
5.683 S ±19.5km 107.607 W ±49.6km
DEPTH = 10.0km (geophysicist)
5.4mb (2 obs.)

NORTHERN EASTER I. CORDILLERA (694)

UPA 31.55 63 eP 36 38.10 1.3
UYO 41.54 17 e(P) 37 41.20 -20.0X
RRO 41.84 11 eP 38 04.40 0.8
1.2s 270.40nm 5.9mb X
FKO 41.85 13 eP 38 05.20 1.5
1.2s 246.90nm 5.8mb X
CCH 42.16 110 eP 38 05.00 -1.9
i 38 27.90
SIO 42.56 14 eP 38 07.50 -2.0
TUL 42.84 14 eP 38 08.70 -3.1X
1.3s 68.70nm 5.2mb
OLY 43.69 19 P 38 18.00 -0.7
LNV 43.76 135 iPc 38 20.00 0.6
PEL 43.86 133 iPc 38 23.80 3.5X
1.3s 101.92nm 5.5mb
SAN 44.04 134 eP 38 22.50 0.8
PCH 44.23 134 eP 38 23.00 -0.3

S.D. = 1.5 on 9 of 12 obs.

% AUG 27, 1990 15h 53m 59.51±0.70s
26.421 S ±7.6km 27.466 E ±6.5km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.2 (PRE).

BPI 0.56 64 eP 54 10.80 0.0
S 54 17.00
KSR 0.75 317 eP 54 15.20 0.4
BFS 0.77 232 eP 54 14.50 -0.6
SLR 1.00 47 eP 54 18.50 -0.6
S 54 31.20
EVA 1.45 94 eP 54 56.00 29.4X
S 55 14.00
SEK 1.90 176 eP 54 33.50 0.5
S 54 57.00
BFT 2.43 73 eP 54 41.00 0.3
S 55 11.50

S.D. = 0.6 on 6 of 7 obs.

AUG 27, 1990 16h 02m 37.95±0.95s
6.725 S ±52.3km 125.391 E ±63.7km
DEPTH = 515.0km (geophysicist)
5.0mb (3 obs.)

BANDA SEA (280)

MTN 8.30 138 iPc 04 39.00 0.1
0.3s 41.00nm 5.1mb
WB5 15.72 147 eP 05 54.50 -0.7
WRA 15.75 147 Pc 05 56.20 0.6
0.3s 5.10nm 4.6mb
ASPA 18.73 155 ePc 06 24.70 0.1
0.5s 24.00nm 5.1mb
PKI 51.54 313 P 10 58.00 -0.2
DMN 51.78 313 P 11 00.00 0.2
GKN 52.34 313 P 11 03.80 0.0
S.D. = 0.5 on 7 of 7 obs.

AUG 27, 1990 17h 22m 30.97±0.67s
40.059 N ±5.6km 19.842 E ±6.7km
DEPTH = 10.0km (geophysicist)

ALBANIA (391)

MD 3.2 (ATH).

SRN 0.22 146 iPg 22 34.90 -0.7
TPE 0.27 29 iPg 22 34.90 -1.7
KEK 0.35 186 ePg 22 37.90 -0.2
VLO 0.49 327 iPg 22 42.20 1.3
LSK 0.59 81 iPg 22 40.60 -2.3
BERA 0.65 7 ePg 22 43.10 -0.8
OHR 1.28 34 iPn 22 54.40 -0.3
iSg 23 14.20
Lg 23 17.00
TIR 1.29 1 ePn 23 05.00 10.2X
LCI 1.47 281 P 22 56.00 -1.5
eSg 23 17.00
KZN 1.50 80 ePb 22 58.70 0.7
LACI 1.58 356 ePn 23 03.00 4.0X
EVR 1.90 126 ePn 23 05.70 1.9
VLS 1.97 163 ePg 23 07.80 3.1X
PUK 1.98 1 ePn 23 05.20 0.3
BRT 2.17 293 P 23 20.50 12.8X
eSn 23 44.50
SKO 2.26 32 iPn 23 10.50 1.5
i 23 39.80
VAY 2.43 58 ePn 23 13.00 1.7
ORI 2.60 271 P 23 21.00 7.2X
eSn 23 47.00
TDS 2.73 263 P 23 25.50 9.9X
SOI 3.55 237 P 23 27.50 0.2

S.D. = 1.5 on 14 of 20 obs.

* AUG 27, 1990 18h 49m 58.20±2.66s
32.317 S ±15.5km 70.493 W ±17.1km
DEPTH = 126.2 ±30.0 km

CHILE-ARGENTINA BORDER REGION (127)

JACH 0.37 193 iPc 50 16.00 -0.6
iS 50 27.50
ROCH 0.79 214 iPc 50 20.00 0.6
iS 50 35.00
PEL 0.84 191 iPc 50 19.10 -0.6
iS 50 33.00
FCH 1.02 170 eP 50 20.70 -1.0
iS 50 36.00
RTBS 1.10 54 ePd 50 22.90 0.9
S 50 39.00
SAN 1.14 187 eP 50 22.50 0.0
iS 50 38.00
PCH 1.30 181 iPc 50 23.50 -0.8
iS 50 41.00
TACH 1.38 196 eP 50 25.00 -0.1
iS 50 43.80
LCCH 1.47 218 iPc 50 27.60 1.6
iS 50 48.50
MDZ 1.50 113 iP 50 29.50 3.0
iS 50 42.40
CHCH 1.62 185 iP 50 27.00 -0.8
iS 50 47.50
RTCB 1.66 61 iPd 50 28.50 0.1
(S) 50 49.00
RTCV 1.72 75 ePd 50 28.00 -1.1
eS 50 48.00
LNV 1.81 205 iPc 50 30.00 0.0
iS 50 51.70
RTLL 1.98 61 iPc 50 31.80 -0.5
eS 50 55.90

CFA 2.04 70 e(P) 50 32.10 -0.9
eS 50 55.80
S.D. = 1.2 on 16 of 16 obs.

& AUG 27, 1990 19h 26m 17.22s
59.419 N 155.477 W
DEPTH = 0.9km

SOUTHERN ALASKA (2)

<AGS-P>. ML 3.5 (PMR).

BGM 0.13 102 iP 26 20.47 0.7
eS 26 22.56
MCNL 0.63 111 iP 26 28.91 -0.9
PDB 0.75 60 iP 26 30.92 -1.3
eS 26 41.72
AUI 1.05 94 eP 26 37.30 -0.6
eS 26 51.22
CDD 1.06 117 iP 26 37.18 -1.0
AUE 1.08 92 eP 26 37.65 -0.7
iS 26 51.78
RED 1.69 52 iP 26 46.82 -1.3
eS 27 09.30
SVW 1.70 358 iPd 26 46.10 -2.1
RDT 1.93 52 eP 26 49.97 -1.6
eS 27 16.18
HOM 1.97 81 eP 26 51.85 -0.2
eS 27 17.10
CNPM 2.17 85 eP 26 53.47 -1.5
eS 27 20.97
NNL 2.21 72 eP 26 54.75 -0.8
CKL 2.37 40 eP 26 56.54 -1.5
BGL 2.40 38 eP 26 57.08 -1.4
SPU 2.46 42 eP 26 57.40 -1.8
CRP 2.48 40 eP 26 58.41 -1.2
NKA 2.51 56 eP 27 00.53 0.8
SLKM 2.86 65 eP 27 03.17 -1.7
SUA 3.12 47 eP 27 07.17 -1.4
SEW 3.13 75 eP 27 06.13 -2.4
SKT 3.22 35 eP 27 08.48 -1.5
PMS 3.47 56 eP 27 12.11 -1.4
TTA 3.53 356 ePc 27 11.50 -3.0
PWA 3.56 49 eP 27 14.58 -0.1
PMR 3.82 52 eP 27 17.90 -0.6
CUT 3.93 38 eP 27 19.63 -0.4
GHO 4.00 51 eP 27 19.34 -1.8
SML 4.26 53 eP 27 23.09 -1.6
KTH 4.69 26 eP 27 29.47 -1.4
VZW 4.74 66 eP 27 28.84 -2.8
SDN 4.91 216 eP 27 31.69 -2.2
KLU 5.17 62 eP 27 34.78 -2.9
TOA 5.30 55 ePd 27 37.80 -1.7
FBA 6.57 30 eP 27 58.70 1.3
34 obs. associated

& AUG 27, 1990 19h 33m 53.52s
62.912 N 149.769 W
DEPTH = 83.0km

CENTRAL ALASKA (1)

<AGS-P>.

HUR 0.09 43 iP 34 05.30 1.5
eS 34 14.06
CUT 0.56 205 iP 34 08.18 -0.1
KTH 0.83 321 iP 34 11.07 0.0
eS 34 24.09
MCK 0.91 24 eP 34 11.59 -0.3
eS 34 24.55
GHO 1.21 161 eP 34 15.62 -0.1
eS 34 32.60
SKT 1.24 222 iP 34 15.78 -0.3
PWA 1.27 182 eP 34 16.47 0.2
eS 34 34.17
SML 1.29 148 eP 34 16.64 -0.1
eS 34 34.39
PLRM 1.36 167 iP 34 17.82 0.4
eS 34 36.75
SUA 1.52 198 eP 34 20.15 0.4
eS 34 41.46
SCM 1.57 132 eP 34 20.33 0.0
eS 34 42.18
PMS 1.68 177 eP 34 22.34 0.6
eS 34 44.35
WRH 1.74 25 eP 34 21.50 -1.0
eS 34 41.62
TOA 1.86 114 eP 34 23.96 -0.2
CCB 1.95 26 eP 34 24.21 -1.1
HDA 1.96 39 eP 34 24.36 -1.1

i 51 03.80
S 51 46.50
CNCB 15.42 17 P 53 41.00 -1.4
SIV 18.82 36 P 54 26.00 1.3
GBA 147.09 116 PKPd 09 56.10 11.1X
0.6s 6.00nm
S.D. = 1.0 on 19 of 21 obs.

AUG 28, 1990 01h 58m 17.96± 0.31s
44.094 N ± 2.8km 13.133 E ± 3.0km
DEPTH = 10.0km (geophysicist)
ADRIATIC SEA (382)
ML 3.3 (LDG), 3.3 (VIE).

RSM 0.52 252 P 58 27.70 -0.8
eSg 58 36.50
SFI 0.94 260 P 58 36.40 0.5
eSg 58 49.70
CRE 0.97 242 P 58 37.50 1.0
eSg 58 52.00
PGD 1.04 258 P 58 38.00 0.3
eSg 58 51.30
TRI 1.68 15 iPnc 58 47.20 -0.2
iPg 58 50.20
iSn 59 14.70
iSg 59 23.10
MNS 1.74 191 P 58 48.00 -0.4
eSn 59 11.00
AQU 1.75 173 P 58 49.20 0.6
BDI 1.83 270 P 58 51.00 1.3
CEY 1.88 29 ePn 58 50.60 0.1
eSn 59 16.00
PII 1.92 260 P 58 51.00 0.0
VVI 1.95 345 P 58 52.00 0.5
eSn 59 16.00
VOY 2.01 15 ePn 58 52.10 -0.3
eSn 59 18.20
VBY 2.07 46 e(Pn) 58 53.80 0.7
eSn 59 19.70
AZI 2.12 174 P 58 53.50 -0.3
LJU 2.19 26 iPnc 58 55.40 0.5
e(Sn) 59 24.20
RMP 2.30 188 P 58 57.00 0.4
RDP 2.35 188 P 58 57.60 0.3
SAL 2.39 310 P 58 57.50 -0.3
FVI 2.51 354 P 58 59.60 0.2
HVAR 2.58 110 e(Pn) 58 58.70 -1.7
ZAG 2.66 49 e(Pg) 59 09.20 7.6X
eSg 59 44.70
PTJ 2.70 47 ePn 59 02.10 -0.2
eSn 59 34.40
MDI 2.96 306 P 59 05.60 -0.1
PGF 3.39 244 Pn 59 15.30 3.2X
SOTA 3.41 337 iPnc 59 13.40 1.1
i 59 35.00
iSn 59 56.20
WATA 3.42 342 iPnc 59 14.00 1.5
i 59 35.20
iSn 59 56.00
BHG 3.63 357 eP 59 16.10 0.7
SBF 4.12 269 Pn 59 22.70 0.4
Sn 00 07.90
FRF 4.72 266 Pn 59 31.10 0.2
Sn 00 23.40
LPG 4.75 289 Pn 59 31.20 -0.4
Sn 00 22.60
LPL 4.77 290 Pn 59 31.40 -0.4
Sn 00 22.20
LRG 4.95 265 Pn 59 34.90 0.9
BSF 5.79 312 Pn 59 44.90 -1.1
Sn 00 45.50
CDF 5.93 319 Pn 59 46.70 -1.2
Sn 00 49.20
HAU 6.13 312 Pn 59 49.30 -1.5X
Sn 00 54.80
SMF 7.02 295 Pn 00 02.50 -0.8
Sn 01 15.50
LBF 7.05 297 Pn 00 01.40 -2.3X
Sn 01 16.30
LOR 7.23 299 Pn 00 04.50 -1.7X
Sn 01 20.20
SSF 7.38 297 Pn 00 07.10 -1.2
Sn 01 25.00
AVF 7.39 295 Pn 00 07.10 -1.3
BGF 7.66 292 Pn 00 09.90 -2.3X
Sn 01 30.90
S.D. = 0.8 on 35 of 41 obs.

AUG 28, 1990 02h 02m 50.11± 0.28s
52.191 N ± 6.7km 168.571 W ± 3.4km
DEPTH = 33.0km (normal)
5.3mb (64 obs.) 4.5Msz (7 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS (9)
ML 4.9 (PMR).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 95, 15C
Centroid Location:
Origin Time 02:02:55.9 2.8
Lat 53.07N 0.23 Lon 168.54W 0.25
Dep 15.0 FIX Half-duration 1.5
Moment Tensor: Scale 10**16 Nm
Mrr= 2.88 0.37 Mlt=-0.92 0.44
Mff=-1.95 0.47 Mrt= 4.76 1.80
Mrf= 2.02 1.45 Mtf=-1.87 0.68
Principal Axes:
T Val= 6.15 Plg=57 Azm=351
N -0.20 14 239
P -5.95 29 140
Best Double Couple: Mo=6.1*10**16
NP1: Strike=196 Dip=20 Slip= 45
NP2: 62 76 105

ADK 5.02 270 iPc 04 05.10 0.1
SDN 5.73 53 eP 04 15.80 0.7
SVW 11.41 33 ePc 05 35.10 1.4
TTA 12.67 27 eP 05 51.50 0.9
PMR 14.14 41 eP 06 12.80 3.0X
TOA 15.60 42 eP 06 24.80 -4.2X
FBA 16.61 32 eP 06 37.10 -4.6X
INK 23.23 33 eP 07 52.50 -2.2
0.7s 26.00nm 4.8mb
MCW 28.97 79 P 08 53.50 5.1X
YKA 29.99 49 eP 09 04.00 6.7X
0.8s 5.80nm 4.4mb
LON 30.44 81 eP 09 02.50 0.9
MBC 30.53 21 eP 09 01.00 -0.9
0.6s 8.00nm 4.7mb
NEW 32.58 76 eP 09 19.40 -0.9
LBFM 33.22 90 eP 09 27.00 0.9
SES 35.21 69 ePd 09 42.00 -1.0
ARN 35.87 95 eP 09 50.00 1.4
LRM 36.55 77 eP 09 54.50 -0.1
KVN 36.91 90 eP 09 58.00 0.4
PTI 38.19 81 eP 10 09.50 1.2
NIIJ 39.25 269 eP 10 17.70 0.8
CLC 39.27 94 eP 10 19.00 1.8
SBB 39.88 96 eP 10 32.00 9.7X
BW06 39.95 79 eP 10 22.30 -0.7
CHJJ 40.02 267 P 10 23.70 0.4
MWC 40.04 96 eP 10 35.00 11.2X
GSC 40.09 94 eP 10 29.00 4.9X
MAT 40.18 269 eP 10 26.00 1.3
1.0s 37.00nm 5.1mb
eS 16 37.00
DAU 40.30 84 eP 10 25.90 -0.1
MTMJ 40.40 269 eP 10 27.20 0.6
MDJ 40.61 285 eP 10 25.70 -2.4
IIDJ 41.05 268 eP 10 32.50 0.6
TSRJ 42.20 269 eP 10 42.10 0.9
CN2 43.53 286 eP 10 50.40 -1.6
GOL 44.31 80 eP 10 58.10 -0.6
1.0s 12.50nm 4.7mb
GLD 44.37 80 eP 10 59.50 0.4
1.2s 32.83nm 5.0mb
SHNJ 46.14 272 P 11 14.20 1.3
ALO 46.70 86 eP 11 17.00 -0.6
1.2s 5.86nm 4.4mb
KUMJ 47.39 270 eP 11 24.90 2.1
FRB 48.84 36 eP 11 33.00 -0.7
DAG 49.89 9 iPd 11 40.40 -1.2
0.8s 17.91nm 5.2mb
ACO 50.00 79 eP 11 42.60 -0.4
BJI 51.30 288 eP 11 52.00 -0.8
1.0s 18.00nm 5.0mb
Z 18s 0.59um 4.7Msz
MEO 51.62 81 e(P) 11 54.50 -0.8
TUL 52.55 78 eP 12 00.00 -2.3
1.0s 6.00nm 4.5mb
TIA 53.26 284 Pd 12 07.00 -0.5
SSE 54.30 276 Pc 12 15.20 0.0
1.5s 99.00nm 5.6mb
BTO 54.49 292 P 12 16.00 -0.7
UYO 54.53 78 eP 12 16.00 -0.9

TIY 55.02 288 eP 12 20.00 -0.6
Z 18s 0.60um 4.7Msz
NJ2 55.06 279 eP 12 19.50 -1.3
SCH 55.26 44 eP 12 21.00 -1.0
KEV 57.84 354 iP 12 38.00 -2.1
0.8s 24.90nm 5.3mb
RSNY 58.67 57 eP 12 43.70 -2.6
0.8s 9.35nm 4.9mb
WHN 58.85 281 eP 12 46.50 -1.2
PP 12 58.50
WNY 59.13 56 eP 12 47.20 -2.3
HBVT 59.55 56 eP 12 49.80 -2.6
XAN 59.62 287 P 12 51.60 -1.5
SOD 60.21 353 iP 12 54.90 -1.7
GTA 61.00 298 eP 13 00.60 -1.9
1.0s 20.00nm 5.2mb
Z 20s 0.70um 4.8Msz
WMO 64.03 309 Pd 13 22.00 -0.5
SUF 64.85 353 iP 13 26.00 -1.4
0.4s 15.10nm 5.4mb
CD2 64.89 288 eP 13 28.00 -0.3
GYA 66.45 283 iPd 13 38.20 -0.2
NUR 67.15 353 iP 13 40.80 -1.4
0.8s 55.70nm 5.7mb
HFS 68.01 359 eP 13 45.50 -2.1
0.4s 18.70nm 5.5mb
Z 17s 0.14um 4.3MszX
LR 42 19.00
UPP 68.19 357 iP 13 47.10 -1.6
KMI 69.79 285 Pc 13 59.00 -0.3
EKA 72.16 9 Pd 14 10.40 -2.5
1.0s 13.60nm 4.9mb
CHG 76.86 284 iPc 14 30.40 -10.1X
1.1s 16.46nm
CLL 76.87 359 iP 14 39.50 -0.4
1.4s 31.00nm 5.1mb
BNS 77.16 3 ePc 14 41.50 -0.1
GUN 77.24 299 P 14 43.00 0.1
0.6s 49.00nm 5.7mb
KSP 77.26 357 ePc 14 41.70 -0.5
e 14 56.00
BRG 77.29 358 iPd 14 42.00 -0.3
1.1s 30.00nm 5.2mb
i 14 56.20
MEM 77.47 4 P 14 42.90 -0.4
MOX 77.54 360 iP 14 44.00 0.3
1.3s 46.00nm 5.3mb
KKN 77.66 299 P 14 45.20 0.2
1.0s 64.00nm 5.6mb
PKI 77.76 299 P 14 45.50 -0.2
GKN 77.83 300 P 14 45.80 -0.1
KRA 77.87 354 ePd 14 45.60 0.1
1.2s 58.00nm 5.5mb
DMN 77.89 299 P 14 46.40 0.0
DOU 77.93 4 P 14 45.80 0.0
BDT 78.04 283 eP 14 44.80 -2.1
PRU 78.16 358 eP 14 47.00 -0.1
1.2s 24.80nm 5.1mb
ABH 78.25 3 eP 14 47.53 -0.1
GRF 78.50 0 ePc 14 49.50 0.5
1.2s 55.00nm 5.4mb
SPC 78.72 354 iP 14 50.80 0.3
FLN 78.91 8 eP 14 50.20 -1.1
1.4s 39.20nm 5.2mb
Z 20s 0.15um 4.3Msz
WET 79.03 359 eP 14 52.30 0.3
1.3s 35.00nm 5.2mb
LDF 79.11 8 eP 14 51.20 -1.2
1.0s 24.00nm 5.1mb
GRR 79.25 8 eP 14 52.20 -0.9
1.1s 29.30nm 5.2mb
LPF 79.59 8 eP 14 54.50 -0.4
1.2s 35.70nm 5.2mb
CDF 79.71 3 eP 14 55.10 -0.6
1.0s 18.00nm 5.0mb
ZST 79.87 356 iP 14 56.90 0.4
1.0s 98.60nm 5.8mb
HAU 80.09 3 eP 14 57.20 -0.5
1.0s 26.00nm 5.2mb
Z 20s 0.13um 4.3Msz
KMR 80.11 358 iP+ 14 58.40 0.7
SRO 80.20 355 eP 14 58.90 0.7
BSF 80.28 3 eP 14 58.10 -0.7
1.0s 32.00nm 5.3mb
SLE 80.39 2 ePc 14 59.30 0.0
SOP 80.41 356 eP 15 01.90 2.6
BHG 80.46 359 iPd 15 00.70 1.1

28d 02h

BUD 80.49 355 e(P) 15 01.00 1.2
ZLA 80.67 2 ePc 15 01.00 0.2
LOR 80.71 5 eP 15 00.40 -0.6
1.2s 40.15nm 5.3mb
Z 21s 0.15um 4.3msz
SSF 80.89 5 eP 15 01.00 -0.1
1.2s 47.60nm 5.4mb
SAX 80.92 1 ePc 15 02.60 0.2
SOTA 80.97 0 iPc 15 03.00 0.6
1.1s 61.60nm 5.5mb
id 15 03.40
i 15 20.40
LBF 81.00 5 eP 15 02.00 -0.5
1.0s 20.00nm 5.1mb
MFF 81.09 8 eP 15 02.00 -0.1
1.0s 44.90nm 5.4mb
NDI 81.12 306 eP 15 03.50 0.1
AVF 81.16 6 eP 15 02.70 -0.6
1.2s 41.65nm 5.3mb
LLS 81.30 2 ePc 15 04.80 0.5
OGA 81.32 0 iPd 15 05.50 1.1
0.8s 13.00nm 5.0mb
SMF 81.33 5 eP 15 03.70 -0.5
1.1s 48.85nm 5.4mb
BGF 81.36 6 eP 15 03.90 -0.4
1.2s 41.65nm 5.3mb
VRI 81.44 349 ePc 15 04.00 -0.8
OSS 81.50 1 ePc 15 06.00 0.7
LSF 81.57 7 eP 15 05.20 -0.3
1.0s 43.00nm 5.4mb
TCF 81.58 6 eP 15 05.40 -0.2
1.0s 11.00nm 4.8mb
FVI 81.59 359 P 15 06.00 0.5
MAF 81.67 6 eP 15 06.00 0.0
1.3s 23.45nm 5.0mb
VDL 81.69 1 ePc 15 07.40 1.1
AGO 81.88 6 P 15 07.45 0.4
DIX 82.05 3 ePc 15 09.50 1.2
TMA 82.06 2 ePc 15 08.80 0.6
MMK 82.09 2 ePc 15 10.00 1.5
PYM 82.17 6 P 15 08.82 0.1
PTJ 82.21 357 eP 15 09.00 0.1
MDI 82.40 1 P 15 09.00 -0.7
MAIO 82.41 323 iPc 15 10.50 0.4
RJF 82.51 7 eP 15 09.80 -0.6
1.1s 22.00nm 5.1mb
Z 20s 0.15um 4.4msz
ORX 82.51 2 P 15 11.02 0.5
ORO 82.52 2 P 15 11.50 1.0
SAL 82.58 1 P 15 11.50 0.8
LPL 82.59 3 eP 15 11.80 0.7
1.0s 12.00nm 4.9mb
LPG 82.61 3 eP 15 12.10 0.9
1.2s 17.85nm 5.0mb
LSD 82.66 3 P 15 12.86 1.4
LBL 82.70 6 P 15 12.01 0.7
LFF 82.81 8 eP 15 11.80 -0.1
1.2s 41.65nm 5.4mb
GRN 82.82 4 P 15 13.13 1.0
CAF 82.93 7 eP 15 12.30 -0.3
1.2s 29.75nm 5.3mb
RSP 82.97 3 P 15 14.10 1.2
BNI 83.05 3 P 15 14.90 1.6
LPO 83.10 7 eP 15 13.30 -0.1
1.2s 29.75nm 5.3mb
RRL 83.19 3 P 15 15.94 1.8
PZZ 83.61 3 P 15 16.66 0.4
PCP 83.62 2 P 15 15.74 -0.4
DOI 83.62 3 P 15 16.50 0.3
SURF 83.63 3 P 15 18.00 1.6
CKI 83.73 2 P 15 16.50 -0.1
ROB 83.85 3 P 15 17.07 -0.2
ENR 83.90 3 P 15 16.25 -1.4
FIN 83.94 2 P 15 17.48 -0.3
BDI 84.12 1 P 15 18.50 -0.2
IMI 84.23 3 P 15 18.81 -0.5
SBF 84.26 3 eP 15 19.50 0.1
1.1s 48.85nm 5.6mb
SFI 84.27 360 P 15 21.50 2.2
PGD 84.31 360 P 15 21.50 1.7
PII 84.46 1 P 15 20.00 -0.3
FRF 84.54 3 eP 15 20.80 0.1
1.0s 28.00nm 5.4mb
CRE 84.56 360 P 15 22.00 1.0
LRG 84.63 4 eP 15 21.70 0.5
1.3s 54.15nm 5.6mb
EPF 84.67 8 eP 15 21.00 -0.5

1.1s 23.20nm 5.3mb
KVT 84.68 342 iP 15 23.10 1.6
OUE 84.69 314 eP 15 22.70 0.7
LMR 84.76 4 eP 15 22.30 0.5
1.2s 38.70nm 5.5mb
PGF 85.62 2 eP 15 26.50 0.2
1.1s 80.60nm 5.9mb
SKO 85.81 353 iP 15 27.50 0.3
1.1s 77.00nm 5.8mb
AQU 85.82 359 P 15 28.10 0.9
AZI 86.18 359 P 15 29.50 0.6
VAY 86.37 352 eP 15 30.40 0.5
RDP 86.42 359 P 15 31.00 0.8
BBTK 86.48 344 iPd 15 32.00 1.4
DUI 86.49 358 P 15 31.80 1.2
IZI 86.52 346 eP 15 30.00 -0.8
OHR 86.72 353 eP 15 31.30 -0.4
1.3s 89.00nm 5.8mb
WB5 87.21 232 eP 15 31.00 -3.1X
WRA 87.28 232 P 15 33.70 -0.7
0.7s 1.80nm 4.4mb
MGR 87.98 357 P 15 37.50 -0.2
ORI 88.02 356 P 15 39.00 1.1
TDS 88.43 356 P 15 40.50 0.6
PSI 89.43 274 ePd 15 45.30 0.4
1.0s 25.90nm 5.5mb
HYB 89.66 298 eP 15 45.50 -0.6
AAPN 89.85 12 iP 15 47.50 0.7
ASMO 89.84 12 eP 15 47.50 0.7
ALQJ 90.04 12 iP 15 49.00 1.3
ACHM 90.08 12 eP 15 50.00 2.2
ATEJ 90.25 12 iP 15 49.50 0.8
MAL 90.38 13 eP 15 49.00 -0.1
GBA 93.39 297 Pd 16 02.20 -1.0
0.2s 11.20nm 5.9mb
SALJ 93.51 340 P 16 03.70 0.0
MDSJ 93.75 339 P 16 04.70 -0.1
MKRJ 93.96 339 P 16 04.60 -1.1
BFT 150.01 325 iPKPc 22 39.50 5.9X
1.0s 40.00nm
WIN 150.10 349 ePKP 22 40.00 6.2X
SLR 150.66 328 iPKPc 22 40.00 5.6X
1.5s 64.00nm
Z 18s 5.42um 6.4msz
BPI 151.15 328 ePKP 22 43.00 7.8X
SWZ 152.93 332 ePKP 22 52.00 14.3X
SEK 153.27 327 ePKP 22 46.50 8.3X
S.D. = 1.0 on 183 of 199 obs.

& AUG 28, 1990 02h 38m 31.30s
35.722 N 120.223 W
DEPTH = 5.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.6 (BRK).
PHAM 0.18 309 iP 38 35.60 0.5
PKEM 0.35 15 iP 38 40.40 2.0
BCH 0.55 168 eP 38 40.50 -1.8
PRI 0.55 320 eP 38 42.70 0.3
iS 38 50.90
LLA 1.07 327 eP 38 52.80 0.9
PRS 1.11 304 ePc 38 51.20 -1.4
BLP 1.17 187 eP 38 51.20 -2.4
ABL 1.19 136 eP 38 50.70 -3.5
FRI 1.33 18 eP 38 54.50 -1.9
iS 39 12.10
SAO 1.44 317 iP 38 56.00 -2.0
10 obs. associated

AUG 28, 1990 03h 03m 12.47 ± 0.27s
52.850 N ± 6.0km 31.887 W ± 3.5km
DEPTH = 28.6km (8 depth phases)
4.7mb (43 obs.) 4.6msz (11 obs.)
NORTH ATLANTIC RIDGE (403)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 20C
Centroid Location:
Origin Time 03:03:13.6 0.6
Lat 52.79N 0.08 Lon 32.42W 0.13
Dip 15.0 FIX Half-duration 1.7
Moment Tensor: Scale 10**16 Nm
Mrr=-3.09 0.45 Mlt=-1.79 0.64
Mff= 4.88 0.51 Mrt= 0.00 0.00
Mrf= 0.00 0.00 Mtl=-8.12 0.54
Principal Axes:
T Vol= 10.32 Plg= 0 Azm=236

N -3.09 90 180
P -7.23 0 146
Best Double Couple: Mo=8.8*10**16
NP1: Strike=281 Dip=90 Slip=-180
NP2: 11 90 0
VAL 13.24 85 iP 06 18.10 -2.8X
S 08 47.20
AKU 14.62 23 eP 06 43.30 4.4X
1.0s 28.00nm 4.7mb
ECB 15.24 82 eP 06 50.30 3.2X
ETA 15.52 80 eP 06 55.60 4.9X
ECP 15.53 82 eP 06 49.90 -0.9
ESK 16.96 70 eP 07 11.50 2.6
1.0s 120.00nm 5.0mb
EKA 16.98 70 P 07 09.10 -0.1
0.8s 66.70nm 4.8mb
STS 18.48 113 iPd 07 32.00 4.1X
EZAM 18.89 115 eP 07 34.50 1.6
GDH 19.30 337 ePc 07 38.00 0.4
1.0s 38.00nm 4.6mb
e 11 10.00
PTO 19.64 117 eP 07 44.00 2.4
eS 11 19.00
GRR 20.10 90 eP 07 44.40 -1.9
0.8s 26.85nm 4.6mb
LPF 20.14 91 eP 07 44.80 -1.9
0.8s 32.25nm 4.7mb
FLN 20.17 89 eP 07 45.80 -1.3
0.8s 52.40nm 4.9mb
Z 20s 0.47um 3.8msz
LDF 20.46 89 eP 07 48.20 -1.9
0.8s 29.55nm 4.7mb
MTE 20.73 117 eP 07 50.50 -2.5
LIS 21.12 123 eP 07 53.00 -3.9X
MFF 21.33 94 eP 07 57.40 -1.6
1.2s 53.55nm 4.8mb
SUE 21.35 53 eP 07 59.50 0.4
BER 21.57 55 eP 08 02.00 0.7
EPLA 21.76 116 eP 08 04.00 0.6
FRB 21.80 314 eP 08 03.00 -0.5
ECRI 22.11 106 eP 08 07.00 0.1
UCC 22.35 81 P 08 09.10 -0.1
S 12 22.00
SNF 22.40 81 iPc 08 09.23 -0.4
GUD 22.43 112 eP 08 11.00 0.8
DBN 22.43 77 eP 08 12.00 2.1
Z 20s 2.00um 4.5msz
eS 12 14.00
LSF 22.51 94 eP 08 09.40 -1.5
1.0s 28.00nm 4.7mb
LFF 22.71 97 eP 08 12.00 -0.7
1.0s 28.00nm 4.7mb
DOU 22.74 82 P 08 12.70 -0.3
1.0s 91.70nm 5.2mb
S 12 17.00
TCF 22.91 93 eP 08 13.80 -1.0
1.2s 26.80nm 4.6mb
RJF 22.98 96 eP 08 14.90 -0.6
0.8s 18.80nm 4.7mb
Z 20s 1.52um 4.4msz
TOL 23.01 113 eP 08 17.00 1.2
iS 12 27.00
FIG 23.02 124 e(P) 08 19.50 3.6X
WIT 23.11 75 eP 08 18.50 1.9
LPO 23.11 97 eP 08 16.00 -0.7
0.8s 17.45nm 4.6mb
MAF 23.16 93 eP 08 16.90 -0.3
1.0s 26.00nm 4.7mb
BGF 23.16 92 eP 08 17.00 -0.2
SSF 23.33 90 eP 08 18.60 -0.2
1.0s 44.00nm 4.9mb
AVF 23.36 91 eP 08 18.80 -0.3
1.1s 52.50nm 5.0mb
MEM 23.40 80 iPc 08 19.43 0.0
WTS 23.43 76 ePc 08 20.50 0.8
1.0s 77.00nm 5.2mb
e 08 28.50 29km
LOR 23.45 89 eP 08 19.20 -0.8
0.6s 17.15nm 4.7mb
Z 22s 1.83um 4.5msz
ETOR 23.51 109 eP 08 20.80 0.1
CAF 23.51 96 eP 08 20.60 0.0
1.1s 53.70nm 5.0mb
LBF 23.65 90 eP 08 21.00 -0.9
0.9s 27.85nm 4.8mb
SMF 23.72 91 eP 08 21.90 -0.8

KKN	106.50	294	PKP	35	07.40	16.6X	CTT	150.13	322	ePKP	36	15.20	4.6X	0.5s			43.00nm			
DMN	106.61	294	PKP	35	09.60	18.5X	BZS	150.22	335	ePKPc	36	09.00	-1.6	i			37	03.80		
QUE	122.72	294	ePKP	35	22.40	0.8	TIM	150.27	336	iPKPd	36	15.70	5.1X	IFR	163.67	29	iPKP	36	26.50	-1.2
KEV	127.82	350	ePKP	35	30.00	0.0	ALT	150.33	317	ePKP	36	17.00	5.9X	i			36	30.00		
MAIO	129.04	301	iPKPd	35	33.40	-0.1	KMR	150.36	347	ePKP	36	10.00	-0.7	i			37	35.00		
		e		37	41.00				i	36	16.90		LIC	164.05	144	PKP	36	30.20	1.9	
SOD	130.01	349	ePKP	35	27.00	-7.2X			epPKP	37	22.00		KIC	164.32	145	PKP	36	30.20	1.6	
SUF	134.20	346	ePKP	35	41.00	-1.3	GWF	150.42	356	PKP	36	16.84	6.0X	TIC	164.40	143	PKP	36	30.50	1.8
NUR	136.49	346	ePKP	35	48.00	1.3	RMN	150.45	298	iPKPd	36	17.30	5.8X	S.D. = 1.0 on 193 of 261 obs.						
HFS	138.80	353	ePKP	35	41.10	-9.9X	FLN	150.50	6	ePKP	36	10.70	-0.2							
	0.4s	1.40nm						1.1s	19.55nm											
EKA	143.73	7	PKPd	35	56.30	-3.5X	LDF	150.71	6	ePKP	36	10.80	-0.4							
	1.3s	20.00nm						1.2s	14.90nm											
AAE	145.06	258	iPKP	36	05.50	1.8	FUR	150.79	350	iPKPd	36	17.70	6.3X							
IAS	146.42	331	ePKP	36	07.00	2.4X		1.0s	65.00nm											
WIT	146.65	357	ePKPd	36	07.50	2.8X	GRR	150.83	7	ePKP	36	11.20	-0.2							
		e		37	13.00			1.2s	11.90nm											
KAS	146.72	318	ePKP	36	08.00	2.6X	CDF	151.00	356	PKP	36	17.72	5.9X							
KRA	147.00	341	ePKP	36	04.00	-1.4	KHL	151.12	316	iPKP	36	17.90	5.6X							
	1.4s	112.00nm					LPF	151.16	7	ePKP	36	11.90	0.0							
		e		36	07.50			1.3s	18.05nm											
		e		36	14.80		ECH	151.21	356	PKP	36	17.95	5.9X							
KSP	147.25	346	ePKP	36	06.00	0.2	VITF	151.27	358	PKP	36	18.58	6.6X							
	1.2s	115.00nm					BEO	151.33	336	ePKP	36	18.50	6.2X							
		id		36	09.00		FEL	151.48	355	PKP	36	18.71	6.1X	OHR	3.94	0	ePn	09	07.70	1.2
		i		36	22.60		MOF	151.57	356	PKP	36	18.91	6.2X	TDS	4.29	307	P	09	13.00	1.5
		e		37	09.00		BSF	151.61	356	ePKP	36	12.50	-0.3	ATN	4.34	285	P	09	11.90	-0.3
WTS	147.46	357	ePKPd	36	09.00	2.9X	SOTA	151.72	350	iPKPd	36	19.50	6.5X	VAY	4.37	18	ePn	09	17.40	4.8X
	1.0s	75.00nm						1.0s	37.50nm				BRT	4.64	324	P	09	15.00	-1.5	
		e		36	22.00			i	36	24.20			MEU	4.68	271	P	09	16.50	-0.7	
		e		37	13.50			e	37	17.50			GIB	5.43	281	P	09	28.50	0.7	
CLL	147.46	350	iPKPc	36	06.40	0.3		e	37	25.40			S.D. = 1.3 on 11 of 14 obs.							
	1.7s	195.00nm						e	39	55.00										
		i		37	11.20			i	40	02.50										
SPC	147.67	340	ePKP	36	06.90	0.1	PTJ	151.91	343	ePKP	36	13.30	0.1	AUG 28, 1990 05h 28m 10.31± 0.24s						
LWI	147.67	231	iPKPd	36	11.90	4.0X	BBS	151.93	355	PKP	36	19.57	6.4X	16.430 S ± 5.5km 178.056 E ± 4.5km						
BRG	147.72	348	ePKP	36	06.40	-0.2	ZAG	151.98	342	ePKP	36	12.00	-1.2	DEPTH = 10.0km (geophysicist)						
	1.4s	80.00nm					FVI	152.04	347	PKP	36	18.50	5.3X	4.9mb (9 obs.)						
		i		36	09.80		LOMF	152.09	356	PKP	36	19.50	6.1X	FIJI ISLANDS (182)						
		i		37	17.80		LJU	152.16	345	ePKP	36	14.00	0.5	YSA	0.53	240	iPc	28	19.60	-1.5
		i		38	22.30			i	36	21.50			NDE	1.22	97	iPd	28	32.40	-0.7	
VR1	147.79	330	ePKPd	36	09.50	2.6X		i	36	30.40				eS	28	47.70				
BMR	147.79	335	ePKPc	36	12.00	5.2X		epPKP	37	24.20			NDF	1.44	204	iP	28	37.20	0.8	
BBTK	148.10	316	iPKPc	36	08.00	0.2	LOR	152.25	1	ePKP	36	13.40	-0.2	KRO	1.55	125	iPd	28	38.10	0.1
MOX	148.33	351	ePKP	36	08.00	0.4		1.2s	11.90nm					eS	28	59.30				
	1.7s	110.00nm					VOY	152.32	345	ePKP	36	14.00	0.2	SVA	1.72	167	iPc	28	41.60	1.2
		i		36	12.00			i	36	20.10				eS	29	05.70				
		i		36	15.00		SSF	152.45	1	ePKP	36	14.00	0.2	TVI	1.89	105	ePd	28	42.80	-0.2
		e		37	18.00			1.0s	10.00nm					eS	29	07.20				
MLR	148.44	330	ePKPc	36	08.00	-0.1	VBY	152.47	343	ePKP	36	14.40	0.5	UDU	1.90	82	eP	28	40.40	-2.6
PRU	148.44	347	ePKP	36	07.00	-0.7		e	36	21.50				eS	29	04.00				
		i		36	11.60			i	36	28.50			STK	36.45	238	iPd	35	17.30	-0.1	
BNS	148.47	356	ePKPd	36	11.80	4.1X		epPKP	37	24.40				0.9s	17.00nm				4.9mb	
	1.3s	0.20nm					CEY	152.47	344	ePKP	36	14.00	0.1	ASPA	41.97	253	iPd	36	01.80	-1.6
		i		36	16.50			e	36	21.00				1.1s	30.00nm				4.9mb	
		i		36	25.00			i	36	32.30			PRS	77.59	46	eP	40	09.30	0.9	
		i		37	13.30		LBF	152.53	0	ePKP	36	13.90	-0.1	8CH	77.91	48	P	40	10.00	-0.3
BHL	148.62	304	PKPc	36	12.00	3.3X		1.1s	9.75nm				MHC	77.93	45	eP	40	10.40	0.0	
UCC	148.72	360	PKP	36	12.00	3.9X	TRI	152.66	345	PKP	36	21.00	6.9X	PRI	77.98	47	eP	40	11.70	1.0
MEM	148.88	358	PKP	36	08.80	0.4	AVF	152.72	1	ePKP	36	13.80	-0.4	ARN	78.00	45	P	40	11.00	0.3
		ed		36	12.70			1.0s	4.00nm				ABL	78.36	48	P	40	12.90	-0.1	
PSZ	148.89	339	ePKP	36	12.00	3.4X	SMF	152.87	1	ePKP	36	14.20	-0.3	WDC	79.05	42	eP	40	16.90	0.5
SNF	149.00	360	PKP	36	13.30	4.7X		1.2s	8.95nm				FRI	79.07	46	eP	40	17.00	0.5	
TNR	149.07	332	ePKPd	36	13.00	4.1X	BGF	152.94	2	ePKP	36	14.40	-0.1	CMB	79.14	45	eP	40	17.30	0.3
ADI	149.22	302	iPKPd	36	14.50	4.9X		1.0s	8.00nm				SBB	79.28	49	eP	40	18.00	0.1	
GRF	149.31	351	ePKP	36	10.10	1.0	LSF	153.17	4	ePKP	36	14.40	-0.5	ISA	79.29	48	eP	40	18.00	0.1
		ed		36	14.40		TCF	153.18	3	ePKP	36	14.80	-0.1	PLM	79.36	51	eP	40	19.00	0.5
		e		36	19.70			1.2s	7.45nm				LBFM	79.88	42	P	40	21.20	0.1	
DOU	149.42	360	PKPd	36	14.10	4.9X	VAY	153.19	328	ePKP	36	21.40	6.4X	CLC	79.98	48	eP	40	22.00	0.4
KHC	149.45	348	iPKP	36	10.00	0.6	SKO	153.23	331	iPKP	36	15.00	-0.1	TPC	80.31	50	eP	40	24.00	0.6
		i		36	14.80			i	36	22.60			GSC	80.31	49	eP	40	23.00	-0.4	
		i		36	20.50		MAF	153.26	3	ePKP	36	15.00	0.0	KVN	81.20	45	P	40	27.80	-0.3
SRO	149.48	341	iPKP	36	14.60	5.2X	MDI	153.36	351	PKP	36	22.50	7.4X	RMW	83.24	36	P	40	37.80	-0.6
		e		37	19.40		HLW	153.36	298	ePKP	36	23.00	7.4X	MSU	85.06	48	P	40	48.70	0.7
ZST	149.49	343	ePKP	36	10.40	1.0	SAL	153.40	350	PKP	36	23.00	7.8X	FBA	85.15	14	ePc	40	46.30	-1.2
		i		36	15.40		ORO	153.71	354	PKP	36	24.00	8.2X	PNT	85.46	36	eP	40	49.00	-0.4
ABH	149.52	356	ePKP	36	14.45	5.0X	OHR	154.20	330	ePKP	36	16.30	-0.2	NEW	86.35	37	P	40	49.50	-4.4
BUD	149.55	340	iPKP	36	14.80	5.3X		1.3s	82.00nm					0.9s	7.13nm				4.9mb	
ZNT	149.64	301	iPKPd	36	15.60	5.4X		i	36	25.00			LZH	87.33	309	Pc	40	59.50	0.4	
VKA	149.64	344	ePKP	36	14.50	4.9X		e	36	39.50				1.5s	34.00nm				5.4mb	
	2.0s	224.00nm					LFF	154.41	6	ePKP	36	16.80	0.2		pP	41	06.00	20km		
		ic		36	15.50		CAF	154.53	4	ePKP	36	17.20	0.4	ALQ	87.86	53	eP	41	01.00	-0.7
		i		36	21.60			1.3s	9.05nm					1.0s	4.25nm				4.7mb	
		i		37	20.60		CKI	154.87	353	PKP	36	23.00	5.8X	BW06	88.65	45	P	41	04.70	-0.7
IZI	150.00	319	ePKP	36	15.20	4.7X	SURF	154.95	356	PKP	36	18.78	1.2		1.6s	17.11nm			5.1mb	
CSS	150.02	307	ePKP	36	15.30	4.6X	BCAO	159.59	225	iPKPd	36	23.20	-0.7	GOL	90.40	49	P	41	13.40	-0.3

28d 05h

GLD	1.0s	5.31nm	4.8mb	
SES	90.52	49 P	41 15.00	0.9
FKO	90.86	37 eP	41 15.00	-0.3
	94.99	55 eP	41 35.10	0.5
	1.0s	27.40nm	5.6mb	
SIO	95.97	55 eP	41 39.30	0.2
TUL	96.42	55 eP	41 41.90	0.8
	1.0s	5.00nm	5.0mb	
KHC	145.02	342 PKP	47 49.00	-0.5
MEM	145.31	351 PKP	47 50.30	0.5
SNF	145.63	353 PKP	47 50.10	-0.3
ABH	145.76	349 ePKP	47 49.76	-1.0
DOU	146.01	352 PKP	47 50.90	-0.2
CDF	147.22	349 ePKP	47 54.90	1.7
	1.0s	10.00nm		
FVI	147.53	341 PKP	47 56.00	2.4X
SKO	147.58	326 ePKP	47 55.00	1.1
FLN	147.73	358 ePKP	47 57.40	3.5X
	1.2s	23.80nm		
HAU	147.78	350 ePKP	47 56.40	2.3X
	1.2s	11.90nm		
BSF	147.87	349 ePKP	47 56.60	2.3X
	1.2s	11.90nm		
GRR	148.12	359 ePKP	47 57.10	2.6X
	1.4s	17.45nm		
LPF	148.48	359 ePKP	47 58.20	3.1X
	1.3s	28.90nm		
OMR	148.53	326 ePKP	47 58.00	2.5X
LOR	148.88	352 ePKP	47 59.20	3.4X
	1.0s	8.00nm		
SSF	149.12	353 ePKP	47 59.90	3.7X
	1.0s	11.00nm		
AVF	149.41	353 ePKP	48 00.40	3.8X
	1.0s	6.00nm		
SMF	149.49	352 ePKP	48 00.70	3.9X
	1.0s	8.00nm		
BGF	149.70	353 ePKP	48 01.40	4.3X
	1.0s	12.00nm		
MFF	149.88	358 ePKP	48 01.40	4.1X
	1.4s	17.45nm		
TCF	150.03	354 ePKP	48 02.20	4.6X
	1.0s	4.00nm		
MAF	150.06	354 ePKP	48 02.40	4.8X
	1.0s	8.00nm		
LPL	150.10	348 ePKP	48 03.30	5.3X
	1.0s	7.00nm		
LPG	150.12	348 ePKP	48 03.30	5.2X
	0.8s	6.70nm		
LSF	150.13	355 ePKP	48 02.30	4.6X
	1.1s	11.00nm		
BNI	150.56	348 PKP	48 04.00	5.4X
RJF	151.07	355 ePKP	48 04.70	5.5X
	0.8s	8.05nm		
CAF	151.39	354 ePKP	48 05.60	5.9X
	1.0s	6.00nm		
LFF	151.49	356 ePKP	48 05.80	6.0X
	0.9s	11.45nm		
LPO	151.71	355 ePKP	48 06.30	6.1X
	1.0s	12.00nm		
SOI	153.25	327 PKP	48 10.00	7.5X
	S.D. = 0.8	on 46 of 71 obs.		

? AUG 28, 1990 05h 29m 52.36±3.12s
6.157 S ±24.5km 132.312 E ±38.7km
DEPTH = 33.0km (normal)
4.4mb (2 obs.)

TANIMBAR ISLANDS REGION (281)

AAI	4.78	301 ePc	31 04.00	0.1
MTN	6.75	190 eP	31 33.20	1.5
	0.3s	45.00nm	5.8mb X	
KNA	10.15	200 eP	32 17.80	-1.1
		eS	34 00.00	
WB5	13.79	172 eP	33 07.20	-0.7
		eS	35 32.50	
WRA	13.85	172 Pc	33 08.90	0.2
	0.6s	4.90nm	4.5mb	
ASPA	17.48	175 eP	33 57.50	2.2X
	0.4s	12.00nm	4.4mb	
		eS	36 58.70	
	S.D. = 1.4	on 5 of 6 obs.		

% AUG 28, 1990 05h 37m 44.76±0.81s
26.369 S ± 8.8km 27.456 E ± 8.1km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.6 (PRE).

BPI	0.55	70 eP	37 56.00	0.2
		S	37 59.60	
PRY	0.56	178 eP	37 56.50	0.6
		S	38 03.50	
BFS	0.80	229 eP	37 59.90	-1.0
SLR	0.97	50 eP	38 03.50	-0.3
SEK	1.95	176 eP	38 18.50	-0.5
SWZ	2.07	246 eP	38 21.70	1.0
BFT	2.42	74 eP	38 26.00	0.1
	S.D. = 0.8	on 7 of 7 obs.		

* AUG 28, 1990 05h 37m 59.87±0.88s
6.807 N ±20.2km 73.040 W ±18.3km
DEPTH = 168.0 ± 13.0 km
4.0mb (1 obs.)

NORTHERN COLOMBIA (99)

BMG	0.27	352 IPc	38 23.00	-1.1
FUO	1.50	208 eP	38 31.00	-0.5
BOG	2.40	205 IPc	38 42.50	1.0
		eS	39 13.00	
SDV	3.15	49 IPnd	38 52.40	1.8
		iSn	39 29.60	
TOV	4.37	47 ePn	39 07.30	1.2
		eSn	39 57.10	
PLAV	6.27	61 eP	39 38.00	6.6X
GUAC	6.62	59 eP	39 35.20	-0.9
OLLA	6.95	62 eP	39 39.60	-0.7
LLAV	7.16	59 eP	39 42.50	-0.7
YKA	63.30	340 eP	48 12.50	-0.2
	0.6s	1.40nm	4.0mb	
	S.D. = 1.3	on 9 of 10 obs.		

? AUG 28, 1990 05h 54m 31.67±9.09s
43.970 N ±92.9km 7.657 E ±13.7km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 2.6 (LDG).

SBF	0.19	236 Pg	54 35.80	-0.2
		Sg	54 39.30	
FRF	0.84	241 Pg	54 47.80	-0.1
		Sg	54 58.80	
LMR	1.05	233 Pg	54 51.60	0.2
		Sg	55 05.70	
LRG	1.07	242 Pg	54 51.90	0.1
		Sg	55 06.20	
PGF	1.73	145 Pn	55 02.00	0.0
		Sn	55 24.50	
	S.D. = 0.2	on 5 of 5 obs.		

* AUG 28, 1990 06h 08m 04.92±0.82s
38.882 N ±11.3km 71.042 E ±11.9km
DEPTH = 33.0km (normal)
4.2mb (4 obs.)

AFGHANISTAN-USSR BORDER REGION (717)

QUE	9.30	202 eP	10 20.50	0.5
MAIO	9.52	258 eP	10 16.00	-6.9X
		eS	11 54.00	
NDI	11.39	151 eP	10 47.50	-0.9
GKN	15.68	130 P	11 45.40	0.2
KKN	16.22	129 P	11 51.20	-1.0
DMN	16.25	130 P	11 52.80	0.3
PKI	16.46	129 P	11 54.80	-0.5
GUN	16.51	127 P	11 55.80	-0.1
GBA	25.81	166 Pc	13 34.10	-0.6
	0.7s	6.00nm	4.3mb	
KOD	29.10	167 eP	14 05.50	0.4
HFS	41.24	320 eP	15 46.50	-1.5
	0.4s	3.80nm	4.5mb	
YKA	78.87	3 eP	20 06.30	0.5
	0.8s	0.90nm	3.8mb	
WRA	83.23	122 P	20 32.00	2.6
	0.8s	1.40nm	4.1mb	
	S.D. = 1.2	on 12 of 13 obs.		

* AUG 28, 1990 06h 08m 40.88±0.64s
47.015 N ±13.9km 153.796 E ± 8.4km
DEPTH = 33.0km (normal)
4.7mb (22 obs.) 4.0msz (2 obs.)

KURIL ISLANDS (221)

MDJ	17.03	271 eP	12 37.70	-0.2
CN2	20.11	271 eP	13 09.60	-4.9X
SNY	22.12	268 eP	13 33.60	-1.2
	0.6s	20.00nm	4.7mb	

Z	18s	0.60um	4.1msz	
BJI	27.95	269 eP	14 31.00	1.0
Z	18s	0.29um	3.9msz	
SSE	29.63	249 eP	14 45.20	0.0
TIY	31.63	268 eP	15 03.00	0.1
FBA	35.66	39 eP	15 36.60	-0.8
XAN	36.00	265 P	15 40.50	-0.2
GTA	39.39	279 P	16 09.20	0.1
	0.6s	6.00nm	4.5mb	
INK	41.18	33 eP	16 23.00	-0.2
CD2	41.37	265 P	16 25.60	0.2
GYA	42.23	258 P	16 32.40	-0.1
YKA	50.43	37 eP	17 35.10	-1.6
	0.7s	0.90nm	3.9mb	
CHG	52.63	257 eP	17 54.20	0.2
PNT	54.69	53 eP	18 06.00	-2.8X
	0.5s	2.00nm	4.4mb	
GUN	55.44	275 P	18 14.60	-0.3
KKN	55.93	276 P	18 18.20	-0.1
PKI	55.98	275 P	18 18.40	-0.4
DMN	56.16	276 P	18 20.20	0.2
GKN	56.23	276 P	18 20.20	-0.1
SOD	59.17	339 iP	18 39.00	-1.3
LRM	60.66	53 eP	18 59.70	8.5X
KVN	61.63	62 eP	19 00.00	2.3
BW06	64.21	54 eP	19 13.00	-1.8
	1.0s	2.25nm	4.2mb	
NUR	65.17	335 iP	19 19.00	-1.4
	0.6s	10.40nm	5.1mb	
HFS	68.37	340 eP	19 38.60	-2.1
	0.4s	7.10nm	5.1mb	
WRA	68.92	200 P	19 55.00	10.5X
	0.8s	2.70nm		
GBA	70.89	270 Pd	19 55.20	-1.5
	0.6s	2.10nm	4.4mb	
ALO	71.30	59 e(P)	20 00.00	0.8
KSP	75.87	334 eP	20 25.00	-0.3
EKA	76.19	347 Pc	20 28.60	1.6
	0.6s	2.20nm	4.3mb	
CLL	76.42	336 iP	20 28.00	-0.3
	0.9s	16.00nm	5.0mb	
BRG	76.54	335 e(P)	20 29.40	0.4
TUL	76.58	51 eP	20 28.30	-1.2
	0.5s	6.20nm	4.9mb	
PRU	77.15	334 P	20 33.70	1.2
GWf	79.98	338 P	20 47.41	-0.5
CDF	80.59	338 P	20 51.05	-0.2
FVI	80.72	334 P	20 58.00	6.2X
ECH	80.80	338 P	20 52.43	0.1
FEL	80.89	337 P	20 52.40	-0.5
VITF	81.09	339 P	20 53.96	0.2
MOF	81.14	338 P	20 54.11	-0.1
HAU	81.20	339 eP	20 54.50	0.1
	1.0s	8.00nm	4.7mb	
BSF	81.25	338 P	20 54.26	-0.5
BBS	81.40	338 P	20 56.20	0.7
LOMF	81.69	338 P	20 57.52	0.5
LOR	82.49	340 iPd	21 01.30	0.2
	0.6s	5.40nm	4.8mb	
LBF	82.73	340 iPd	21 02.50	0.1
	0.8s	4.70nm	4.6mb	
SSF	82.77	340 iPd	21 02.90	0.3
	0.8s	5.35nm	4.7mb	
AVF	83.06	340 iPd	21 04.50	0.5
	1.0s	8.00nm	4.8mb	
SMF	83.08	340 iPd	21 04.70	0.5
	0.8s	7.40nm	4.8mb	
LPL	83.41	337 iPd	21 07.30	1.1
	1.0s	10.00nm		

MNDI 1.29 247 eP 59 15.00 0.5
LAT 2.35 115 iPd 59 42.00
PMG 4.37 149 eP 59 26.60 -0.1
JAY 5.18 307 ePd 59 38.00
WB5 17.44 215 eP 59 44.00 -9.3X
WRA 17.50 215 Pd 00 32.00
ASPA 0.5s 2.00nm 00 04.00 -0.2
0.4s 6.00nm 02 42.00 -1.1
S.D. = 1.4 on 6 of 7 obs.

% AUG 28, 1990 07h 39m 20.10 ± 0.56s
28.001 S ± 5.8km 26.750 E ± 6.6km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.9 (PRE).

SEK 0.84 113 eP 39 36.50 -0.4
BFS 1.10 2 eP 39 47.50
BLF 1.21 204 eP 39 40.00 -1.3
PRY 1.25 31 eP 39 42.50 -0.7
SWZ 1.51 303 eP 40 05.00
KIM 1.89 246 eP 39 48.00 1.2
FRS 2.15 215 eP 40 02.00
BPI 2.15 32 eP 39 48.20 0.3
SLR 2.64 32 eP 39 57.00 0.5
BFT 3.74 53 eP 40 03.00 0.3
S.D. = 0.9 on 10 of 10 obs.

& AUG 28, 1990 08h 16m 46.40s
37.188 N 122.080 W
DEPTH = 11.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.9 (BRK). Felt in the
Santo Cruz Mountains.

GCC 0.17 157 iPd 16 50.20 -0.2
MHC 0.38 66 iPd 16 51.50
PCC 0.39 322 iPd 16 53.20
SAO 0.66 130 iPd 16 54.20 -0.1
BKS 0.70 350 eP 16 55.20
BRK 0.70 348 iPd 16 58.30 -0.7
ZSP 0.77 350 eP 16 58.30 -1.2
PRS 1.03 146 ePd 16 59.60 -0.5
LLA 1.07 122 ePd 16 59.80 -0.3
PRI 1.54 132 ePd 17 00.20
CMB 1.59 57 eP 17 08.60 -0.2
11 obs. associated

& AUG 28, 1990 08h 24m 55.00s
59.834 N 153.370 W
DEPTH = 116.3km
SOUTHERN ALASKA (2)
<AGS-P>.

PDB 0.42 264 iP 25 11.41 -0.9
AUE 0.48 180 iP 25 24.26
AUI 0.50 183 eP 25 25.26
RED 0.66 27 eP 25 11.87 -0.7
MCNL 0.82 218 iP 25 12.02 -0.8
RDT 0.88 33 eP 25 13.10 -0.9
HOM 0.89 101 iP 25 13.10 -1.0
CDD 0.92 189 iP 25 14.26 -1.0
XLV 0.92 114 eP 25 15.24 -0.7
NNL 1.06 78 eP 25 15.45 -0.2
CNPM 1.13 105 eP 25 17.44 -1.3

BRLK 1.26 92 eP 25 16.43 -3.4
NKA 1.40 48 eP 25 21.91 0.6
CKL 1.46 20 iP 25 21.48 -0.7
SPU 1.50 25 eS 25 42.26
BGL 1.51 18 eP 25 22.57 -0.1
CRP 1.56 22 eP 25 22.34 -0.5
CGLM 1.62 24 eP 25 22.76 -0.7
NCG 1.68 20 eP 25 45.51
SVW 1.70 320 iP 25 23.30 -0.9
SLKM 1.71 65 eP 25 24.53 -0.4
SEW 1.99 80 eP 25 23.77 -1.2
SUA 2.09 37 iP 25 23.96 -1.2
SKT 2.33 22 eP 25 45.88
PMS 2.36 51 eP 25 26.99 -1.6
PWA 2.50 42 eP 25 29.36 -0.6
PLRM 2.73 48 eP 25 55.14
GHO 2.92 46 eP 25 32.19 -0.9
SML 3.16 49 eP 25 32.54 -0.8
TTA 3.36 339 eP 25 59.23
SCM 3.57 53 eP 25 34.88 -0.3
VZW 3.59 67 eP 26 04.83
VLZ 3.72 66 eP 25 35.95 -2.3
KLU 4.03 62 eP 25 38.90 -2.0
GLB 4.97 67 eP 26 11.74
35 obs. associated

& AUG 28, 1990 08h 32m 05.57s
62.851 N 150.599 W
DEPTH = 92.1km
3.3mb (1 obs.)
CENTRAL ALASKA (1)
<AGS-P>.

HUR 0.46 73 iP 32 20.06 -0.4
CUT 0.47 161 iP 32 30.83
KTH 0.72 348 iP 32 30.83 0.1
SKT 0.98 207 iP 32 31.63
MCK 1.16 40 eP 32 22.60 -0.2
PWA 1.25 164 iP 32 35.13
GHO 1.34 143 iP 32 25.35 -0.1
SUA 1.39 183 iP 32 40.20
PLRM 1.44 151 eP 32 26.96 -0.7
PMR 1.44 151 eP 32 28.67 0.0
SML 1.49 134 iP 32 29.78 0.0
NCG 1.63 207 iP 32 48.12
CGLM 1.68 204 eP 32 30.76 0.2
PMS 1.68 163 eP 32 30.36 -0.6
CRP 1.75 205 eP 32 30.30 -0.7
BGL 1.80 209 eP 32 31.28 -0.4
SPU 1.81 203 eP 32 51.73
SCM 1.84 122 eS 32 33.25 -0.3
CKL 1.85 207 eP 32 33.83 -0.5
WRH 1.97 33 iP 32 33.69 -0.6
NKA 2.14 188 eP 32 56.14
TOA 2.19 188 iPd 32 34.98 -0.3
CCB 2.19 33 iP 32 34.98 0.4
HDA 2.25 45 iP 32 36.26 0.4
DDM 2.34 64 eP 32 35.70 -0.2
SLKM 2.36 175 eP 32 35.56 -0.7
FBA 2.40 30 iPd 32 59.59
RDT 2.44 201 eP 32 36.54 0.0
TTA 2.48 274 eP 32 36.73 -1.3
GLM 2.57 32 eP 32 42.91 2.7
KLU 2.58 120 iP 32 40.50 -0.5
VZW 2.62 131 eP 32 39.44 -1.4
VLZ 2.65 129 eP 32 40.45 -1.4
SEW 2.81 168 eP 32 42.60 -0.4
NNL 2.84 187 eP 32 42.30 -0.9
SVW 2.95 236 eP 32 42.40 -1.4
DOT 3.06 72 eP 32 43.61 -0.8
HOM 3.24 189 eP 32 44.20 -0.7
CNPM 3.35 186 iP 32 44.77 -1.4
32 44.45 -1.9
32 44.73 -2.1
32 44.95 -2.2
32 48.51 -0.8
32 51.16 1.4
32 50.20 -1.1
32 51.38 -1.5
32 55.70 0.4
32 56.34 -0.5

GLB 3.49 111 eP 32 56.57 -2.1
TMW 3.49 79 eP 32 56.85 -1.8
PDB 3.53 211 eP 32 59.21 0.0
CDD 4.21 202 eP 33 08.59 0.0
TGL 4.24 116 eP 33 07.29 -1.9
BALM 4.30 111 eP 33 07.29 -2.8
DWY 5.15 72 P 33 19.00 -2.7
YKA 16.40 75 eP 35 48.20 -2.9
0.9s 1.80nm 3.3mb
47 obs. associated

AUG 28, 1990 08h 32m 54.97 ± 1.20s
31.747 S ± 5.6km 72.566 W ± 12.3km
DEPTH = 33.0km (normal)
OFF COAST OF CENTRAL CHILE (134)

IHA 1.50 149 eP 33 20.60 0.8
ROCH 1.80 133 iPd 33 47.20
JACH 1.91 120 iPd 33 23.50 -0.8
LCCH 1.92 154 iPd 33 46.70
PEL 2.11 132 iPd 33 24.10 -1.9
SAN 2.34 137 eP 33 45.00
TACH 2.34 145 iPd 33 26.10 0.2
LNV 2.41 156 iPd 33 55.00
FCH 2.49 130 iPd 33 28.00 -0.7
PCH 2.55 138 ePd 33 57.00
RTBS 2.65 89 ePd 33 32.00 0.0
CHCH 2.71 144 iPd 34 02.00
ZON 3.32 88 eP 33 33.60 -0.7
MDZ 3.34 111 eP 33 35.00 0.0
RTCV 3.43 93 eP 34 10.20
RTLL 3.52 84 ePd 33 36.00 -0.3
CFA 3.69 89 ePd 33 37.50 0.3
CNCB 15.44 17 P 34 17.40
ZOB0 15.93 16 P 33 45.00 -0.9
S.D. = 1.0 on 19 of 19 obs.

? AUG 28, 1990 08h 53m 03.49 ± 7.51s
33.837 S ± 12.4km 178.353 W ± 102.0km
DEPTH = 33.0km (normal)
4.5mb (1 obs.)
SOUTH OF KERMADEC ISLANDS (179)

HBZ 4.64 215 eP 54 12.90 -0.1
PUZ 5.04 212 P 55 06.00
NOZ 5.59 210 eP 54 18.60 -0.2
TAZ 6.05 222 eP 55 15.80
WRA 44.04 276 Pd 54 26.70 0.2
WB5 44.04 276 eP 54 33.00 0.1
NUR 149.40 338 ePKP 01 10.50 0.5
NB2 152.09 350 PKP 01 09.50 -0.5
S.D. = 0.5 on 6 of 8 obs.

AUG 28, 1990 08h 58m 05.85 ± 0.23s
19.645 S ± 4.2km 69.876 W ± 5.9km
DEPTH = 64.3km (31 depth phases)
5.2mb (24 obs.)
NORTHERN CHILE (123)
Felt at Arica, Cuyo, Iquique and
Pico. Landslides occurred
between Arica and Iquique.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 23C
Centroid Location:
Origin Time 08:58:13.6 0.4
Lat 19.99S 0.07 Lon 70.63W 0.06

28d 08h

Dep 65.1 3.7 Half-duration 1.6	POW 59.04 340 P	07 59.00 -2.5	0.9s 51.00nm	5.5mb
Moment Tensor: Scale 10**16 Nm	ELC 59.49 342 P	08 03.00 -1.5	LRM 75.73 331 ePd	09 47.00 0.5
Mrr=-7.83 0.49 Mtt= 0.46 0.83	TUL 60.46 336 iPd	08 10.00 -1.2	eP	10 04.60 64km
Mff= 7.37 0.67 Mrt=-0.12 0.52	1.4s 82.10nm	5.7mb	ORV 76.09 321 eP	09 49.30 1.0
Mrf=-0.13 0.56 Mtf=-5.21 0.67	Z 21s 0.26um	4.3Msz	epP	10 06.80 64km
Principal Axes:			MIN 76.66 322 eP	09 52.00 0.3
T Vol= 10.16 Plg= 0 Azm=242			WDC 77.36 322 eP	09 54.50 -0.9
N -2.33 2 152			LBFM 77.48 323 P	09 56.40 0.1
P -7.84 88 332			pP	10 14.40 66km
Best Double Couple: Mo=9.0*10**16	FVM 60.49 341 P	08 10.00 -1.4	SES 78.62 335 eP	10 02.00 -0.1
NP1: Strike=334 Dip=45 Slip= -88	SIO 60.51 335 eP	08 10.70 -0.9	0.9s 63.00nm	5.6mb
NP2: 150 45 -92	FKO 60.53 334 eP	08 10.00 -1.7	pP	10 20.00 66km
	1.3s 129.20nm	5.9mb	FFC 78.99 342 eP	10 04.00 0.0
			0.9s 18.00nm	5.0mb
CNCB 3.35 33 iPc	MEQ 60.62 333 eP	08 11.00 -1.3	AVE 79.49 49 iP	10 09.00 1.8
ARE 3.52 334 iPd	RRO 61.10 334 eP	08 15.50 -0.1	i	10 26.00 61km
e(S)	0.3s 8.30nm	5.3mb	NEW 79.69 330 P	10 08.00 0.0
LPB 3.53 29 iPc	ACO 62.49 334 eP	08 24.60 -0.3	1.0s 13.75nm	4.8mb
ZOBO 3.75 27 iPc	HBVT 63.76 357 P	08 33.00 -0.1	pP	10 25.50 63km
ANT 4.07 187 iPc	pP	08 49.50 61km	WIN 80.01 110 iPc	10 27.70 17.2X
i	WNY 63.83 357 P	08 33.00 -0.5	POF 80.47 118 iPd	10 30.00 17.4X
i(S)	pP	08 50.00 63km	1.0s 40.00nm	
CCH 4.20 58 iPc	RSNY 64.02 356 P	08 34.40 -0.4	LON 80.97 327 P	10 14.50 -0.3
PT06 8.47 312 iPc	0.8s 37.39nm	5.4mb	pP	10 33.00 67km
iS	pP	08 51.70 65km	PNT 81.61 330 ePd	10 18.00 0.0
PT08 9.98 319 iPd	ALO 64.45 327 iPd	08 37.50 -0.6	0.6s 32.00nm	5.5mb
iS	0.8s 12.13nm	4.9mb	EDM 81.71 335 iPd	10 18.10 -0.4
NNA 10.14 318 iPd	epP	08 54.00 61km	pP	10 36.00 65km
RTLL 11.70 174 iPc	ANMO 64.46 327 P	08 37.70 -0.4	PGC 83.05 327 eP	10 26.00 0.6
RTCB 11.83 176 eP	pP	08 54.00 60km	0.6s 41.00nm	5.6mb
ZON 11.90 175 eP	CBM 66.28 1 P	08 49.40 0.1	FRB 83.12 1 ePc	10 35.10 9.7X
CFA 12.00 173 e(P)	pP	09 05.50 59km	MAL 83.37 47 eP	10 31.00 3.6X
e	GOL 67.70 331 P	08 58.30 -0.5	ATEJ 83.74 47 eP	10 30.70 1.2
JACH 13.00 183 eP	0.6s 11.83nm	5.0mb	ALOJ 83.77 47 eP	10 31.30 1.7
ROCH 13.31 184 eP	BAR 68.62 319 eP	09 05.00 0.7	AAPN 83.86 47 eP	10 30.70 0.7
IHA 13.42 186 eP	LIC 68.76 75 P	09 03.42 -2.1	ACHM 83.96 47 eP	10 31.00 0.5
e(S)	0.3s 5.50nm	5.0mb	APHE 83.98 47 eP	10 31.00 0.3
PEL 13.46 183 iPd	Z 20s 0.43um	4.7Msz	ASMO 84.15 47 eP	10 32.00 0.5
FCH 13.63 181 eP	TIC 68.94 74 P	09 04.68 -1.9	KIM 84.68 118 iP	10 34.00 -0.5
i	KIC 69.08 75 P	09 05.64 -1.8	i	10 52.00 65km
SAN 13.77 183 eP	PLM 69.19 319 eP	09 27.00 19.0X	TOL 85.21 45 eP	10 38.00 1.4
i	TPC 69.20 320 eP	09 08.00 0.1	SWZ 85.66 117 eP	10 44.70 5.3X
PCH 13.93 182 eP	e	09 26.00 67km	1.5s 50.00nm	5.4mb
i	LKO 69.62 71 P	09 07.94 -2.9X	i	11 04.00 70km
TACH 13.98 184 eP	0.6s 11.50nm	5.0mb	BLF 85.72 119 iPc	10 39.50 -0.2
i	RVR 69.94 319 eP	09 13.00 0.7	SLR 88.64 117 eP	10 53.00 -0.9
LNK 14.32 185 iPc	e	09 30.00 62km	YKA 89.15 341 eP	10 55.00 -0.1
ANGL 20.56 338 eP	GSC 70.47 321 eP	09 16.00 0.3	0.7s 36.90nm	5.0mb
VC1 20.65 335 eP	e	09 39.00 88kmX	BCAO 89.98 85 ePd	10 59.60 -0.5
CAYA 21.15 337 P	SPA 70.48 180 iPd	09 14.90 -0.5	0.4s 3.00nm	4.9mb
GGP 21.15 335 eP	1.4s 87.25nm	5.5mb	SUF 110.01 29 iPd iff 12	46.80 17.4X
YANA 21.20 335 eP	i	09 32.40 64km	0.4s 2.70nm	
BAO 21.23 83 eP	MWC 70.51 319 eP	09 17.00 0.9	ASPA 131.10 209 ePKP	17 11.10 -1.6
COTA 21.52 336 eP	PAS 70.53 319 eP	09 34.00 62km	1.0s 12.00nm	
VAO 21.60 103 eP	SBB 70.68 320 eP	09 17.00 0.1	WRA 134.05 212 PKP	17 18.00 -0.4
e	CLC 71.30 321 eP	09 34.00 62km	0.8s 7.00nm	
PSO 21.96 340 eP	e	09 21.00 0.4	WB5 134.09 213 ePKP	17 10.00 -8.4X
BMA 24.17 102 eP	ISA 71.72 320 eP	09 39.00 67km	e	17 17.30
e	SYP 71.91 318 eP	09 24.00 0.8	QUE 139.67 66 ePKP	17 30.40 1.6
i	e	09 43.00 71km	ASAJ 143.54 319 ePKP	17 31.90 -3.0X
e	e	09 25.00 0.6	MRRJ 145.40 318 ePKP	17 36.20 -1.9
BOG 24.46 350 eP	FRI 73.35 320 eP	09 43.00 66km	POO 145.74 86 iPKPc	17 44.00 4.5X
eS	PRI 73.38 319 eP	09 33.00 0.4	OFUJ 146.62 312 ePKP	17 41.90 1.7
JFO 24.92 99 eP	RUV 73.51 259 eP	09 34.50 1.5	KOD 147.14 102 ePKP	17 44.00 1.8
e	1.1s 15.00nm	4.8mb	GBA 148.14 96 PKPd	17 42.40 -0.9
e	73.73 259 eP	09 37.00 1.8	0.7s 11.30nm	
BMG 26.73 353 eP	1.1s 15.00nm	4.8mb	NDI 148.74 67 ePKP	17 49.50 5.5X
SDV 28.36 358 eP	KVN 73.78 323 P	09 35.70 0.3	KAKJ 148.91 308 ePKP	17 45.40 1.4
OLLA 29.63 6 iP	pP	09 53.00 63km	NIJ 149.32 311 PKP	17 49.10 4.5X
GUAC 29.76 5 iP	TPT 73.79 260 eP	09 37.00 1.4	WMO 149.45 33 PKP	17 45.50 0.8
UPA 29.99 341 eP	1.1s 30.00nm	5.1mb	CHJJ 149.84 309 PKP	17 50.70 5.3X
LLAV 30.08 6 iPd	LLA 73.06 319 eP	09 36.60 1.0	HYB 150.00 89 ePKP	17 50.50 4.3X
CAR 30.10 6 iP	epP	09 53.70 62km	MAT 150.20 310 ePKP	17 51.00 5.0X
SVB 33.79 15 eP	PRS 73.94 319 eP	09 37.10 1.0	0.9s 47.90nm	
CAI 34.37 72 eP	PMO 74.04 259 eP	09 55.20 67km	MDJ 150.29 331 ePKP	17 46.00 0.2
SLB 34.38 15 eP	1.1s 25.00nm	5.1mb	MTMJ 150.47 311 PKP	17 52.20 5.7X
MCP 37.52 4 P	SCH 74.20 2 eP	09 37.00 -0.2	IIDJ 150.88 309 PKP	17 53.00 5.9X
PORP 37.60 5 P	pP	09 55.00 66km	CN2 152.71 335 ePKP	17 55.20 5.8X
LRS 37.82 5 P	CMB 74.44 321 eP	09 39.50 0.5	BJI 159.02 347 ePKP	17 59.00 1.4
LPR 37.92 6 P	epP	09 56.90 64km	TIY 161.88 354 ePKP	18 02.40 1.6
MCP 37.92 4 P	MHC 74.75 320 eP	09 42.00 1.1	TIA 162.39 341 PKPd	18 01.90 0.7
JSC 54.71 348 P	GCC 74.77 319 eP	09 42.00 1.2	LZH 162.71 17 PKP	18 03.20 1.4
LNS 54.82 349 P	PPT 74.87 256 eP	09 44.00 2.1	XAN 165.62 4 PKP	18 05.50 1.1
TKL 56.56 346 P	1.1s 20.00nm	5.0mb	WHN 168.49 341 ePKP	18 08.00 1.5
GBTN 56.66 346 P			S.D. = 1.4 on 125 of 160 obs.	
BLA 57.42 350 ePd				
0.6s 20.00nm				
5.4mb				
UYO 58.41 336 iPc	BKS 75.45 320 e(P)	09 46.10 1.3		

X AUG 28, 1990 09h 53m 43.79± 0.93s

43.782 N \pm 8.8km 12.100 E \pm 6.5km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)

CRE	0.19	215	P	53	48.10	0.1
			eSg	53	51.70	
SFI	0.23	308	Pd	53	48.70	0.0
			eSg	53	52.70	
PGD	0.29	289	P	53	50.00	0.1
RSM	0.29	60	P	53	49.90	0.0
			eSg	53	54.60	
PII	1.14	267	P	54	05.00	-0.2
			eSg	54	20.00	

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

? AUG 28, 1990 10h 04m 49.59 \pm 4.62s
 22.995 S \pm 21.8km 112.569 E \pm 40.7km
 DEPTH = 10.0km (geophysicist)
 4.0mb (2 obs.)

WESTERN AUSTRALIA (590)

NANU	2.77	82	iPc	05	34.90	0.1
MEKA	6.51	125	eP	06	26.50	-1.3
MRWA	6.92	154	eP	06	33.00	-0.5
	0.2s	15.00nm			5.8mb	X
			eS	07	48.00	
BAL	8.43	155	eP	06	55.00	0.3
			eS	08	24.00	
MUN	9.51	161	iPc	07	09.10	-0.5
			eS	08	47.50	
KLB	9.73	153	eP	07	13.00	0.4
			eS	08	55.50	
COOL	10.96	138	eP	07	31.00	1.4
			eS	09	16.00	
WARB	13.19	107	eP	07	54.50	-5.2X
			eS	10	11.00	
FORR	15.90	123	iPd	08	29.90	-5.1X
	0.4s	19.00nm			4.6mb	X
			eS	11	14.00	
ASPA	19.60	96	eP	09	21.50	0.4
	0.4s	9.00nm			4.4mb	
			eS	12	38.10	
WRA	20.49	86	P	09	38.00	7.6X
	0.8s	2.40nm			3.6mb	
WB5	20.52	85	eP	09	30.50	-0.3
			eS	13	01.20	

S.D. = 0.9 on 9 of 12 obs.

? AUG 28, 1990 10h 33m 09.96 \pm 1.39s
 45.095 N \pm 9.2km 6.870 E \pm 14.8km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 1.9 (GEN).

RRL	0.19	199	P	33	14.48	0.3
			S	33	17.97	
RSP	0.28	78	P	33	16.12	0.2
			S	33	20.73	
LSD	0.41	29	P	33	18.38	-0.1
			S	33	24.22	
PZZ	0.61	164	P	33	22.07	-0.3
			S	33	29.76	

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

% AUG 28, 1990 11h 18m 00.01 \pm 0.84s
 44.397 N \pm 8.0km 7.346 E \pm 6.5km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.1 (GEN).

STV	0.15	186	P	18	03.74	0.1
			S	18	06.00	
ENR	0.18	163	P	18	04.15	0.1
			S	18	06.61	
PZZ	0.21	302	P	18	04.56	0.0
			S	18	07.43	
ROB	0.39	105	P	18	08.25	0.2
			S	18	13.79	
IMI	0.62	141	P	18	12.25	-0.4
			S	18	20.66	
FIN	0.65	107	P	18	12.87	-0.1
			S	18	21.69	

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

AUG 28, 1990 11h 39m 17.84 \pm 0.66s
 36.181 N \pm 7.8km 27.250 E \pm 6.9km
 DEPTH = 33.0km (normol)

DODECANESE ISLANDS (369)
 MD 3.4 (ATH).

KAP	0.63	186	ePb	39	30.10	-0.2
			eSn	39	42.30	
SMG	1.56	348	ePn	39	44.00	0.4
NPS	1.62	236	ePn	39	44.90	0.5
APE	1.64	303	ePn	39	44.20	-0.6
KSL	1.89	91	ePn	39	40.40	0.1
ELL	2.22	74	ePn	39	53.00	-0.1
VAM	2.60	254	ePb	40	04.50	6.1X

S.D. = 0.5 on 6 of 7 obs.

% AUG 28, 1990 12h 02m 34.98 \pm 0.88s
 39.085 N \pm 8.0km 27.569 E \pm 8.9km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

IZM	0.73	199	ePg	02	49.10	-0.2
DST	0.97	57	ePn	02	53.30	-0.2
EZN	1.21	308	iPn	02	57.90	0.3
EDC	1.28	10	ePn	02	58.00	-0.7
IZI	1.93	49	ePn	03	09.00	0.8

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

AUG 28, 1990 12h 03m 35.42 \pm 0.54s
 40.971 N \pm 4.6km 20.058 E \pm 6.3km
 DEPTH = 29.3 \pm 6.2 km
 GREECE-ALBANIA BORDER REGION (392)
 ML 3.4 (SKO), 3.0 (TTG).

BERA	0.28	197	iPg	03	41.00	-1.5
TIR	0.40	339	iPg	03	42.00	-2.3
OHR	0.58	76	iPg	03	46.20	-0.9
			iSg	03	56.00	
			Lg	03	57.20	
KBN	0.67	121	iPg	03	48.20	-0.4
TPE	0.68	183	iPg	03	48.20	-0.5
LACI	0.71	339	iPg	03	46.50	-2.8
LSK	0.92	153	ePg	03	52.20	-0.1
PUK	1.08	353	ePg	03	54.50	0.0
SDA	1.13	338	iPg	03	53.50	-1.7
ULC	1.16	329	ePg	03	55.80	0.0
			eSg	04	12.50	
KEK	1.27	189	ePb	04	00.50	3.2X
BCI	1.39	0	ePn	04	00.00	1.0
SKO	1.44	46	iPn	04	01.40	1.7
			iSg	04	20.90	
			Lg	04	24.60	
KZN	1.46	116	ePn	04	03.60	3.5X
TTG	1.57	338	ePn	04	02.50	0.9
			eSn	04	24.00	
BDV	1.60	325	iPnc	04	02.00	-0.1
			eSn	04	24.20	
PVY	1.62	358	ePn	04	04.20	1.7
			eSn	04	27.00	
LCI	1.72	249	P	04	03.50	-0.3
			eSg	04	25.00	
HCY	1.88	322	ePn	04	05.50	-0.6
			eSn	04	32.50	
IVA	1.90	356	ePn	04	08.00	1.5
			eSn	04	33.00	
VAY	1.93	79	iPn	04	11.40	4.6X
NKY	2.00	337	ePn	04	08.20	0.2
			eSn	04	36.00	
BRT	2.16	268	Pc	04	13.80	3.6
BRY	2.23	330	ePn	04	11.20	-0.1
			eSn	04	42.00	
EVR	2.45	146	ePb	04	20.60	6.2X
PLG	2.64	102	ePn	04	20.40	3.4X
VLS	2.82	171	ePn	04	20.50	1.0
MGR	3.53	258	P	04	30.20	0.6
SGO	3.63	265	P	04	30.20	-0.8
SOI	4.24	228	P	04	39.50	-0.1
			eSn	05	26.00	

S.D. = 1.5 on 25 of 30 obs.

? AUG 28, 1990 13h 35m 31.01 \pm 1.36s
 17.836 N \pm 18.8km 67.893 W \pm 24.0km
 DEPTH = 127.1 \pm 17.3 km
 4.0mb (2 obs.)

MONA PASSAGE (89)

MGP	0.78	77	P	35	52.00	0.0
MCP	0.94	52	P	35	52.50	-0.9
LRS	1.10	65	P	35	54.20	-0.7
PORP	1.22	80	P	35	56.80	0.7

SJG	1.68	80	iP	36	02.40	1.0
CSB	1.71	74	P	36	02.00	0.2
LPR	1.98	76	P	36	05.00	-0.1
TUL	30.55	312	eP	41	36.00	1.4
	0.8s	5.50nm			4.3mb	
ZON	49.10	181	eP	44	07.00	-0.5
YKA	55.05	336	eP	44	50.30	-1.1
	0.8s	0.70nm			3.6mb	

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

* AUG 28, 1990 13h 57m 59.63 \pm 0.77s
 35.794 N \pm 18.4km 27.647 E \pm 8.4km
 DEPTH = 10.0km (geophysicist)
 DODECANESE ISLANDS (369)
 MD 3.6 (ATH).

KAP	0.46	238	ePg	58	09.00	0.1
			eSg	58	16.10	
KSL	1.60	78	ePb	58	27.90	-0.2
NPS	1.74	253	ePb	58	30.00	-0.1
ELL	2.06	62	ePn	58	35.00	0.2
VAM	2.84	263	ePg	58	51.70	5.9X
VLI	3.92	285	ePn	59	01.10	0.0

S.D. = 0.2 on 5 of 6 obs.

? AUG 28, 1990 14h 10m 08.10 \pm 2.52s
 52.569 N \pm 45.7km 168.683 W \pm 23.1km
 DEPTH = 33.0km (normol)
 4.2mb (3 obs.)

FOX ISLANDS, ALEUTIAN ISLANDS (9)

ADK	4.97	265	eP	11	21.70	-0.6
FBA	16.33	33	eP	13	55.50	-0.6
YKA	29.79	49	eP	16	13.10	-0.5
	0.6s	0.50nm			3.5mb	
SOD	59.83	353	iP	20	12.10	0.1
SUF	64.46	352	iP	20	43.20	0.3
	0.4s	2.10nm			4.6mb	
NB2	66.74	0	P	20	57.20	-0.4
	0.8s	2.00nm			4.3mb	
NUR	66.77	353	eP	20	57.00	-0.7
CLL	76.49	359	e(P)	21	42.00	-13.8X
KHC	78.66	358	eP	22	10.00	2.1X
ZST	79.49	356	eP	22	13.70	1.3
			e	33	52.90	
BMR	79.60	352	ePc	22	14.00	1.0

S.D. = 0.9 on 9 of 11 obs.

* AUG 28, 1990 14h 21m 48.01 \pm 1.38s
 52.784 N \pm 28.0km 168.871 W \pm 15.2km
 DEPTH = 33.0km (normol)
 4.7mb (21 obs.)

FOX ISLANDS, ALEUTIAN ISLANDS (9)

ADK	4.88	262	eP	23	00.00	-0.9
FBA	16.21	33	eP	25	34.00	-0.5
INK	22.83	34	eP	26	46.00	-2.7
YKA	29.74	49	eP	27	51.90	-1.1
	0.6s	0.90nm			3.7mb	
MAT	40.02	268	eP	29	20.00	-1.2
	1.3s	19.23nm			4.7mb	
CN2	43.19	285	Pc	29	40.60	-6.5X
TIY	54.67	288	eP	31	17.50	1.6
KEV	57.22	353	eP	31		

28d 14h

BSF 79.69 3 eP 33 54.00 0.5
1.0s 12.00nm 4.8mb
LOR 80.13 5 eP 33 56.30 0.5
0.9s 5.75nm 4.6mb
SSF 80.32 5 eP 33 57.30 0.5
1.0s 6.00nm 4.5mb
LBF 80.42 5 eP 33 57.50 0.1
0.9s 4.90nm 4.5mb
MFF 80.52 8 eP 33 58.20 0.4
1.0s 10.00nm 4.8mb
AVF 80.58 5 eP 33 58.60 0.5
0.8s 5.35nm 4.6mb
SMF 80.75 5 eP 33 59.40 0.3
0.8s 5.35nm 4.6mb
TCF 81.01 6 eP 34 00.70 0.2
0.7s 2.20nm 4.3mb
LFF 82.25 7 eP 34 07.60 0.7
0.8s 9.40nm 4.9mb
CAF 82.36 6 eP 34 08.40 0.9
0.8s 4.05nm 4.5mb
LPO 82.54 7 eP 34 09.00 0.6
0.5s 2.90nm 4.6mb
FRF 83.96 3 eP 34 16.20 0.5
0.8s 8.05nm 4.9mb
PGF 85.03 2 eP 34 22.00 0.8
0.9s 16.40nm 5.2mb
MNS 85.20 359 P 34 22.50 0.5
S.D. = 0.8 on 37 of 39 obs.

AUG 28, 1990 14h 56m 45.09 ± 0.40s
39.098 N ± 4.0km 25.781 E ± 4.5km
DEPTH = 10.8 ± 3.2 km
AEGEAN SEA (365)
MD 3.5 (ATH).

PRK 0.41 69 ePb 56 55.00 1.5
EZN 0.84 30 iPg 57 00.90 -0.3
iSg 57 08.90
IZM 1.35 121 iPn 57 09.60 -0.3
SMG 1.62 149 ePb 57 14.10 0.5
ATH 1.97 236 ePn 57 19.20 0.5
EDC 2.03 52 ePn 57 20.00 0.3
APE 2.04 186 ePn 57 19.60 -0.1
RDO 2.05 355 ePn 57 20.00 0.1
PLG 2.21 306 ePb 57 28.60 6.4X
DST 2.26 76 ePn 57 22.20 -0.9
RZN 2.71 343 iPc 57 30.00 0.4
MMB 2.94 328 ePd 57 33.00 0.4
eS 58 23.00
DIM 2.96 356 eP 57 33.00 0.2
VLI 3.27 224 ePn 57 37.60 0.3
GBZT 3.28 58 eP 58 27.50 50.0X
VAY 3.31 313 ePn 57 49.50 11.6X
ALT 3.37 89 ePn 57 38.50 -0.3
PGB 3.66 341 eP 57 42.00 -0.9
VTS 4.00 332 eP 57 53.00 5.3X
S.D. = 0.7 on 15 of 19 obs.

AUG 28, 1990 15h 07m 05.56 ± 0.75s
36.246 N ± 8.9km 27.219 E ± 7.6km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)
MD 3.8 (ATH).

KAP 0.70 183 ePg 07 19.40 0.1
eSg 07 30.50
APE 1.59 302 ePb 07 33.00 -0.8
NPS 1.63 234 ePb 07 35.00 0.5
KSL 1.92 93 ePn 07 37.70 -0.8
ELL 2.22 76 ePn 07 43.00 -0.1
VAM 2.59 252 ePg 07 53.10 4.9X
KHL 2.77 41 ePn 07 52.00 1.1
S.D. = 1.0 on 6 of 7 obs.

? AUG 28, 1990 16h 20m 43.88 ± 2.18s
2.906 S ± 33.3km 126.596 E ± 10.6km
DEPTH = 66.1 ± 14.8 km
4.6mb (3 obs.)
CERAM SEA (270)

AAI 1.77 116 ePc 21 13.00 0.1
MKS 7.47 252 iPc 22 32.50 0.0
WB5 18.50 156 eP 24 57.10 -0.2
WRA 18.55 157 Pc 24 57.60 -0.3
1.1s 19.20nm 4.2mb
ASPA 21.82 162 eP 25 33.40 1.1
0.9s 27.00nm 4.7mb

STK 32.09 156 iPc 27 06.50 -0.4
0.8s 9.00nm 4.7mb
BWA 37.37 150 eP 27 52.10 0.1
CAN 38.37 150 eP 28 00.00 -0.4
S.D. = 0.7 on 8 of 8 obs.

* AUG 28, 1990 16h 21m 05.13 ± 0.75s
36.168 N ± 7.9km 27.212 E ± 8.5km
DEPTH = 33.0km (normol)

DODECANESE ISLANDS (369)
MD 3.8 (ATH).

KAP 0.62 183 ePb 21 17.30 -0.1
eSn 21 28.00
SMG 1.57 349 ePn 21 31.00 0.1
NPS 1.58 236 ePn 21 31.40 0.2
APE 1.62 304 ePn 21 31.70 -0.1
KSL 1.92 91 ePn 21 36.10 0.0
VAM 2.56 254 ePb 21 50.10 4.8X
KHL 2.83 40 ePn 21 53.00 3.9X
VLI 3.49 280 ePn 21 55.80 -2.6X
S.D. = 0.2 on 5 of 8 obs.

& AUG 28, 1990 18h 24m 02.30s
37.523 N 118.893 W
DEPTH = 3.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 3.2 (BRK).

FRI 0.84 231 iPc 24 18.00 -1.0
iS 24 28.70
CMB 1.29 294 iPd 24 25.60 -1.3
iS 24 42.00
LLA 1.87 242 ePc 24 36.00 0.5
PRI 1.98 226 ePc 24 38.50 1.3
SAO 2.17 250 ePc 24 40.30 0.4
MHC 2.20 266 eP 24 40.90 0.6
PRS 2.31 240 ePc 24 42.50 0.6
GCC 2.52 260 e(P) 24 45.80 0.9
8 obs. associated

AUG 28, 1990 19h 02m 52.88 ± 0.29s
40.756 N ± 3.2km 15.921 E ± 2.5km
DEPTH = 13.0 ± 2.4 km
SOUTHERN ITALY (390)
MD 4.2 (ATH). ML 4.1 (TTG).

SGO 0.51 247 Pc 03 03.00 -0.1
MGR 0.68 204 Pd 03 06.00 -0.1
ORI 0.80 150 P 03 08.00 -0.2
BSS 0.85 273 P 03 10.00 1.1
BRT 0.98 82 P 03 11.00 -0.2
TDS 1.14 164 P 03 13.20 -0.8
DUI 1.43 310 P 03 19.30 0.8
eSn 03 39.00

RFI 1.56 291 P 03 21.20 0.9
LCI 1.61 105 P 03 22.30 1.3
eSn 03 43.50

AZI 2.24 304 P 03 31.00 0.9
HVAR 2.45 9 iPn 03 34.20 1.1
iSn 04 07.10

MSI 2.57 186 P 03 33.50 -1.3
eSn 04 05.80
HCY 2.57 48 ePn 03 34.50 -0.3
eSn 04 18.00

RDP 2.61 294 P 03 36.70 1.1
RMP 2.64 295 P 03 37.60 1.6
BDV 2.66 54 ePn 03 37.50 1.3
eSn 04 19.00

SOI 2.68 178 Pd 03 35.30 -1.2
(Sn) 04 06.80

VLO 2.74 95 ePn 03 35.50 -1.7
ULC 2.78 63 ePn 03 38.50 0.6
eSn 04 23.00

BRY 2.90 42 ePn 03 40.00 0.3
eSn 04 25.00

MNS 2.93 305 P 03 41.10 1.2
SDA 2.97 64 ePn 03 41.20 0.7
LCAI 2.99 72 ePn 03 41.00 0.2

TTG 3.01 55 ePn 03 41.00 -0.1
eSn 04 26.50

TIR 3.04 78 ePn 03 41.60 0.1
NKY 3.08 47 ePn 03 42.50 0.3
eSn 04 29.50
GIB 3.13 209 P 03 42.40 -0.5
KEK 3.15 108 eP 03 43.00 0.0
TPE 3.15 97 iPnc 03 43.00 -0.1

SRN 3.24 104 ePn 03 45.20 0.8
BCI 3.50 61 ePn 03 49.90 1.8
LSK 3.62 98 ePn 03 50.90 1.0
KKS 3.62 67 ePn 03 53.50 3.7X
IVA 3.65 53 ePn 03 51.50 1.2
OHR 3.71 83 iPn 03 51.00 -0.2
KBN 3.72 90 ePn 03 50.90 -0.3
FAI 3.89 207 Pc 03 53.10 -0.5
CVT 3.92 219 P 03 54.90 0.9
MAO 3.94 296 Pd 03 53.50 -0.8
RSM 4.08 322 P 03 57.30 1.1
CRE 4.11 316 P 03 58.00 1.1
SKO 4.33 72 iPn 03 59.70 -0.1
iPg 04 16.40
iSn 04 52.50
iSg 05 14.50

SFI 4.37 318 P 04 00.00 -0.4
VLS 4.44 124 eP 04 00.20 -1.2
KZN 4.48 94 eP 04 03.40 1.3
VBY 4.77 354 ePn 04 05.80 -0.3
iSn 05 02.50

EVR 4.89 110 eP 04 08.60 0.7
ZAG 5.06 0 ePn 04 10.00 -0.1
iSg 05 23.50

VAY 5.06 81 ePn 04 09.00 -1.2
iPg 04 18.40
CEY 5.10 348 ePn 04 13.40 2.7
eSn 05 08.50

PTJ 5.14 0 ePn 04 10.30 -1.1
eS 05 08.10

TRI 5.19 343 i(Pn)d04 09.50 -2.5
i(PgPg)04 31.30
i(Sn) 05 08.60

BEO 5.26 38 ePn 04 29.00 16.1X
i 05 40.50

LJU 5.38 350 ePn 04 13.50 -1.2
eSn 05 15.00

VOY 5.48 345 ePn 04 14.30 -1.9
eSn 05 16.80

PLG 5.74 91 eP 04 19.00 -0.9
ITM 5.89 125 eP 04 22.00 0.1

SAL 6.25 323 P 04 24.70 -2.2
FVI 6.26 340 P 04 24.20 -2.9
BZS 6.40 39 eP 04 29.00 0.0

ATH 6.65 112 eP 04 32.20 -0.4
CKI 6.72 306 P 04 39.00 5.3X
MDI 6.76 320 Pd 04 31.60 -2.5
eSn 05 44.40

VLI 6.81 124 eP 04 34.50 -0.3
BUD 7.09 17 e(P) 04 55.00 16.3X
SRO 7.26 13 iP 04 55.00 13.9X

RDO 7.29 84 eP 04 41.50 -0.1
BHG 7.30 344 eP 04 41.70 0.0
SOTA 7.30 334 iPnc 04 41.20 -0.6
0.3s 15.30nm 5.6mb X

i 04 49.40
i 05 38.70
i 05 46.00
i 05 53.10
i 06 00.80
iSn 06 02.40

KMR 7.41 351 ePn 04 44.00 0.8
ZST 7.49 6 eP 04 59.50 15.2X
i 06 03.80

VKA 7.51 2 eP 05 00.00 15.3X
e 05 18.50
e 05 42.00

BNI 8.03 305 P 04 51.00 -1.1
LPG 8.21 308 Pn 04 57.00 2.3
LPL 8.23 308 Pn 04 56.50 1.5
KHC 8.54 350 Pn 04 57.40 -1.6
Pg 05 05.60
Sg 06 27.00

WET 8.66 347 eP 04 58.10 -2.6
MLR 8.72 54 eP 05 03.00 1.3
SPC 8.97 18 eP 05 56.50 51.4X

PRU 9.28 354 ePn 05 09.00 -0.3
e 05 20.00
GRF 9.53 341 e(P) 05 19.50 6.8X
e(S) 06 51.00

BSF 9.63 320 Pn 05 12.30 -1.9
Sn 06 52.00

CDF 9.82 324 Pn 05 13.30 -3.5X
Sn 06 55.40
HAU 9.97 320 Pn 05 15.30 -3.5X
Sn 07 01.60
KSP 10.09 1 eP 06 01.00 40.6X

MOX 10.34 345 eP 05 25.00 1.2				CSS 5.15 103 eP 22 38.80 0.3				MDI 16.24 311 P 25 09.40 1.0			
LDF 10.63 310 Pn 05 29.00 1.1				VLS 5.62 292 eSn 23 39.20				KHC 16.27 326 iP 25 11.30 2.3			
LOR 10.85 311 Pn 05 32.00 1.2				BBTK 5.64 49 ePn 22 47.50 1.8				Z 10s 36.00nm 4.3mb			
SSF 10.95 309 Pn 05 33.20 1.1				FAM 5.67 101 e(P) 22 48.50 2.6				N 10s 1.80um 4.8Msz			
NUR 20.50 12 eP 07 43.00 10.1X				RZN 5.75 341 eP 22 46.00 -1.2				E 10s 1.50um			
NB2 20.52 353 P 07 31.80 -1.4				KZN 5.88 315 ePn 22 48.00 -1.0				S 26 12.80			
SUF 0.7s 1.30nm 3.4mb				DIM 5.92 348 eP 22 48.00 -1.4				PRU 16.51 330 eP 25 14.50 2.5X			
22.83 12 eP 07 56.00 -0.4				MMB 5.97 334 ePd 22 50.00 -0.2				N 12s 1.80um			
S.D. = 1.2 on 79 of 92 obs.				PLD 6.15 342 eP 22 53.00 0.4				E 12s 2.00um			
% AUG 28, 1990 19h 19m 10.27±0.92s				JMB 6.21 356 eP 22 52.00 -1.5				PP 25 20.60			
26.374 S ±12.3km 27.512 E ±10.9km				VAY 6.22 326 ePn 22 53.00 -0.6				eS 28 18.00			
DEPTH = 5.0km (geophysicist)				LSK 6.49 309 eP 22 58.70 1.1				e 25 16.20			
REPUBLIC OF SOUTH AFRICA (584)				KBN 6.65 313 eP 23 01.20 1.6				WET 16.60 325 eP 25 15.20 2.1			
ML 2.5 (PRE).				PCB 6.70 340 eP 22 58.00 -2.4				FUR 16.72 320 iPd 25 18.50 3.8X			
BPI 0.51 67 eP 19 20.00 -0.4				SRN 6.74 305 eP 23 01.70 0.8				1.2s 51.00nm 4.5mb			
SLR 0.94 48 eP 19 28.50 -0.3				KEK 6.79 303 ePn 23 02.50 0.8				ORO 17.24 309 P 25 20.00 -1.4			
SEK 1.94 177 eP 19 45.00 0.6				TPE 6.95 308 iPnc 23 04.70 0.9				DOI 17.27 305 P 25 22.00 0.3			
SWZ 2.11 247 eP 19 47.30 0.4				OHR 6.97 316 iPn 23 05.90 1.7				BRG 17.44 331 eP 25 27.00 3.4X			
BFT 2.38 74 eP 19 51.50 0.7				VTS 7.04 335 iP 23 05.00 -0.2				1.4s 19.00nm 4.0mb			
BLF 2.97 203 eP 19 58.00 -1.0				PVL 7.09 349 eP 23 02.00 -3.8X				GRF 17.75 324 eP 25 27.50 0.0			
S.D. = 0.9 on 6 of 6 obs.				BERA 7.22 310 eP 23 10.10 2.5				Z 16s 1.50um			
AUG 28, 1990 19h 45m 40.55±0.76s				KAS 7.22 43 eP 23 12.00 4.3X				BN1 17.85 306 P 25 36.00 7.1X			
40.602 N ±7.9km 15.837 E ±6.5km				SKO 7.25 324 iP 23 04.50 -3.6X				LPG 17.97 307 eP 25 31.50 0.9			
DEPTH = 9.0 ±7.6 km				N 10s 4.88um				0.9s 22.10nm 4.3mb			
SOUTHERN ITALY (390)				E 11s 6.79um				LPL 17.99 307 eP 25 31.80 1.0			
SGO 0.41 264 Pc 45 48.00 -0.8				HLW 7.27 150 e 24 25.00				0.8s 12.10nm 4.1mb			
MGR 0.51 205 Pd 45 50.20 -0.7				BHL 7.31 106 P 23 09.00 0.1				CLL 18.15 330 ePc 25 33.00 0.6			
ORI 0.71 139 P 45 54.20 -0.5				ATZ 7.48 115 eP 23 10.40 -0.9				1.5s 17.00nm 4.0mb			
BSS 0.81 284 Pd 45 56.60 0.3				ZNT 7.61 120 eP 23 11.60 -1.6				MOX 18.24 327 eP 25 35.00 1.4			
TDS 1.02 158 P 46 01.70 1.8				TIR 7.66 314 eP 23 16.50 2.8X				1.4s 28.00nm 4.2mb			
BRT 1.07 75 P 46 00.00 -0.9				LACI 7.93 315 eP 23 19.50 1.9				Z 10s 2.10um 4.3Msz			
DUI 1.48 316 P 46 09.00 1.5				JVI 8.01 120 eP 23 16.50 -2.2				N 12s 1.30um			
LCI 1.64 99 P 46 12.30 2.7X				PUK 8.10 318 eP 23 23.50 3.6X				E 10s 1.30um			
SOI 2.53 176 P 46 22.40 -0.1				BCI 8.23 320 eP 23 23.90 2.2				BSF 19.01 314 eP 25 42.40 -0.6			
HVAR 2.61 10 i(Pn) 46 29.40 5.8X				SDA 8.30 316 eP 23 23.40 0.8				0.9s 13.10nm 4.2mb			
MNS 2.97 308 P 46 28.00 -0.7				LCI 8.34 302 P 23 20.80 -2.4				CDF 19.03 316 eP 25 42.80 -0.4			
S.D. = 1.3 on 9 of 11 obs.				MKT 8.48 126 eP 23 23.40 -1.8				1.1s 24.40nm 4.3mb			
AUG 28, 1990 20h 21m 21.90±0.38s				PRNI 8.79 130 eP 23 27.60 -1.8				HAU 19.35 314 eP 25 45.60 -1.3			
36.267 N ±3.5km 27.218 E ±2.9km				SOI 9.09 285 Pc 23 33.20 -0.4				0.9s 16.40nm 4.3mb			
DEPTH = 39.9 ±4.9 km				TDS 9.23 295 P 23 34.90 -0.7				Z 20s 1.02um 4.6Msz			
4.4mb (40 obs.) 4.1Msz (6 obs.)				MLR 9.27 354 ePc 23 36.00 -0.1				ABH 19.71 320 eP 25 50.35 -0.4			
DODECANESE ISLANDS (369)				ORI 9.29 297 P 23 35.50 -0.8				SMF 20.29 308 eP 25 54.80 -2.0			
MD 4.5 (ATH).				HOL 9.60 134 eP 23 38.80 -1.7				1.1s 29.30nm 4.5mb			
KAP 0.72 183 ePg 21 36.20 0.6				VRI 9.60 358 ePd 23 40.00 -0.6				LBF 20.33 309 eP 25 55.40 -1.9			
SMG 1.47 348 ePb 21 45.30 -1.0				TNR 9.64 348 ePc 23 44.00 2.9X				1.0s 23.00nm 4.5mb			
APE 1.58 301 ePb 21 47.50 -0.3				MGR 9.96 296 P 23 45.80 0.3				LOR 20.52 310 eP 25 57.40 -1.8			
NPS 1.65 233 ePb 21 49.50 0.7				BADA 10.14 137 eP 23 46.00 -2.0				0.7s 8.80nm 4.2mb			
KSL 1.92 94 ePb 21 55.20 2.5				BZS 10.25 337 eP 23 46.00 -3.5X				Z 21s 0.60um 3.9Msz			
IZM 2.13 1 iPn 21 55.10 -0.7				SGO 10.28 298 P 23 50.00 0.1				AVF 20.65 308 eP 25 58.80 -1.8			
ELL 2.22 77 iPn 22 00.50 3.3X				AYN 10.45 132 eP 23 51.00 -1.2				1.0s 33.00nm 4.6mb			
KHL 2.76 41 iPn 22 05.30 0.6				GIB 10.67 283 P 23 56.00 0.6				SSF 20.66 309 eP 25 59.10 -1.5			
PRK 3.07 346 ePn 22 07.90 -1.1				BSS 10.72 299 P 23 56.20 0.3				0.8s 32.90nm 4.7mb			
ATH 3.28 302 ePn 22 12.30 0.3				DUI 11.30 302 P 24 07.00 3.2X				BGF 20.89 307 eP 26 01.60 -1.4			
VLI 3.48 279 ePn 22 15.60 0.7				AZI 12.13 302 P 24 17.00 2.1				0.9s 24.55nm 4.6mb			
DST 3.51 18 iPn 22 14.10 -1.4				RMP 12.56 301 P 24 22.00 1.2				CAF 20.90 302 eP 26 01.90 -1.3			
ALT 3.61 39 iPn 22 17.60 0.8				ZAG 12.75 322 eP 24 21.00 -2.2				1.1s 17.10nm 4.3mb			
EZN 3.62 349 iPn 22 15.30 -1.6				MNS 12.80 303 P 24 14.00 -9.9X				MEM 20.94 320 Pc 26 04.30 0.9			
EDC 4.10 7 ePn 22 24.00 0.2				PTJ 12.82 322 eP 24 21.70 -2.5X				MAF 20.96 306 eP 26 02.80 -0.9			
BNT 4.12 7 ePn 22 25.00 1.0				VBY 12.91 319 e(P) 24 30.00 4.7X				1.0s 10.00nm 4.1mb			
ITM 4.35 284 ePn 22 30.00 2.7X				SRO 13.29 333 eP 24 34.00 3.8X				ENN 21.07 320 eP 26 05.00 0.2			
PPCY 4.40 107 eP 22 29.00 1.0				i 24 42.70				1.3s 37.00nm 4.6mb			
IZI 4.43 23 ePn 22 29.30 0.8				CEY 13.51 318 e(P) 24 37.00 3.8X				TCF 21.21 306 eP 26 05.00 -1.3			
YLV 4.61 21 ePn 22 31.40 0.3				LJU 13.65 320 e(P) 24 38.50 3.5X				0.8s 8.05nm 4.2mb			
GPA 4.69 30 ePn 22 41.00 8.8X				TRI 13.85 317 P 24 53.00 15.4X				WTS 21.38 324 eP 26 07.00 -0.8			
GBZT 4.84 20 ePn 22 50.00 15.8X				SPC 13.88 341 e(P) 24 39.30 1.0				RJF 21.38 303 eP 26 06.90 -1.1			
CTT 4.96 11 ePn 22 41.00 5.1X				VOY 13.98 318 e(P) 24 38.40 -1.1				0.8s 14.80nm 4.4mb			
ISK 5.00 16 ePn 22 37.00 0.5				SFI 14.01 308 P 24 48.00 8.2X				Z 19s 0.50um 3.9Msz			
EVR 5.04 303 ePn 22 39.00 1.8				ZST 14.06 331 eP 24 49.20 8.8X				DOU 21.41 317 Pc 26 08.20 0.0			
RDO 5.05 345 ePn 22 35.70 -1.4				PGD 14.08 307 P 24 43.00 2.2				1.0s 30.50nm 4.6mb			
PLG 5.06 325 ePn 22 36.00 -1.3				KRA 14.76 341 eP 24 57.60 8.1X				S 30 09.00			
				Z 12s 2.10um				LPO 21.44 301 eP 26 07.90 -0.7			
				E 17s 2.90um				0.8s 10.75nm 4.3mb			
				BDI 14.89 307 P 24 55.00 3.7X				LSF 21.65 305 eP 26 09.60 -1.1			
				FVI 14.93 318 P 24 52.00 0.2				0.9s 9.85nm 4.2mb			
				TAB 15.34 78 eP 25 05.00 7.6X				SNF 21.80 318 Pc 26 12.80 0.7			
				SAL 15.66 312 P 24 56.00 -5.3X				LFF 21.82 302 eP 26 11.80 -0.5			
				SOTA 16.17 318 eP 25 04.00 -3.8X				0.5s 5.10nm 4.2mb			
				1.6s 65.90nm 4.5mb				WIT 21.97 325 e(P) 26 15.00 1.0			

28d 20h

MFF	22.86	305	eP	26	21.80	-0.8
	0.9s	18.00nm			4.5mb	
LDF	23.50	310	eP	26	27.20	-1.6
	0.9s	14.75nm			4.5mb	
FLN	23.79	310	eP	26	30.60	-1.0
	0.8s	20.15nm			4.7mb	
Z	21s	0.55um			4.0msz	
LPF	23.88	308	eP	26	31.50	-1.0
	1.1s	31.75nm			4.8mb	
GRR	23.89	309	eP	26	31.60	-1.0
	0.9s	32.75nm			4.9mb	
NUR	24.32	357	eP	26	37.00	0.4
		e			26 45.00	
UPP	24.41	348	eP	26	38.00	0.5
TOL	24.81	288	eP	26	43.00	1.4
HFS	25.42	344	eP	26	47.50	0.3
	1.0s	21.30nm			4.7mb	
Z	15s	0.48um			4.1msz	
MAIO	25.96	80	eP	26	56.00	3.5X
	0.9s	14.49nm			4.5mb	
		eS			31 31.00	
SUF	26.49	359	eP	26	59.00	2.0
IFR	26.61	274	eP	26	59.00	0.4
		i			27 07.00	
NB2	26.80	343	P	26	59.80	-0.1
	0.7s	4.00nm			4.1mb	
EKA	28.15	322	P	27	16.00	3.9X
	0.9s	3.60nm			4.0mb	
SOD	31.15	360	eP	27	28.00	-10.7X
		e			27 42.00	
BCAO	32.67	196	iPc	27	54.50	1.9
	0.5s	19.00nm			5.2mb	
KEV	33.55	360	eP	27	58.00	-1.6
QUE	33.61	89	e(P)	28	05.90	5.0X
LKO	39.91	236	P	28	53.74	-0.2
	0.7s	9.00nm			4.7mb	
KIC	41.73	232	P	29	09.88	1.1
LIC	42.01	232	P	29	12.26	1.1
Z	20s	0.35um			4.2msz	
WMO	46.00	61	P	29	45.00	1.9
Z	16s	0.70um			4.7msz	
		eS			36 28.00	
GKN	48.71	83	P	30	05.40	0.8
DMN	49.25	83	P	30	10.00	1.0
KKN	49.31	83	P	30	10.10	0.7
	0.6s	26.00nm			5.4mb	
PKI	49.51	83	P	30	11.40	0.4
GUN	49.74	82	P	30	13.60	0.8
KOD	52.22	107	eP	30	27.80	-3.9X
GTA	55.97	63	eP	30	58.60	-0.1
SLR	61.68	179	iPc	31	40.50	2.2
BFT	61.68	177	iP	31	42.50	4.1X
	0.7s	16.00nm			5.3mb	
CD2	62.44	71	P	31	44.70	1.3
HHC	63.63	57	P	31	52.80	1.6
XAN	64.85	65	eP	31	58.00	-1.2
TIY	65.66	60	eP	32	03.40	-1.0
Z	20s	0.20um			4.3msz	
BJI	67.13	56	eP	32	14.50	0.9
	0.6s	4.00nm			4.7mb	
Z	20s	0.30um			4.5msz	
S.D.	= 1.3 on 135 of 173 obs.					

AUG 28, 1990 22h 07m 14.91±0.64s
 36.435 N ± 6.6km 27.097 E ± 6.8km
 DEPTH = 10.0km (geophysicist)
 DODECANESE ISLANDS (369)
 MD 3.8 (ATH).

KAP	0.88	176	ePg	07	30.80	-1.1
		eSg			07 46.20	
SMG	1.29	351	ePb	07	38.40	-0.3
CIN	1.41	34	eP	07	40.00	-0.5
APE	1.41	297	ePn	07	44.60	4.0X
NPS	1.68	226	ePb	07	45.20	0.7
KSL	2.03	98	ePb	07	50.00	0.4
ELL	2.28	81	ePn	07	54.00	0.6
VAM	2.57	247	ePg	08	06.00	8.8X
KHL	2.70	45	ePn	08	06.00	6.8X
VLI	3.36	276	ePn	08	08.70	0.2
S.D.	= 0.8 on 7 of 10 obs.					

? AUG 28, 1990 22h 20m 15.92±2.97s
 38.944 N ± 9.4km 11.747 W ± 25.3km
 DEPTH = 10.0km (geophysicist)
 NORTH ATLANTIC OCEAN (402)

MTH	1.99	91	iPd	20	51.50	1.5
		iS			21 09.00	
LIS	2.04	96	iPc	20	51.50	0.8
		iS			21 10.40	
MOE	2.69	98	eP	21	00.00	0.0
		iS			21 25.00	
MTE	3.56	65	eP	21	12.00	-0.4
		eS			21 46.00	
FIG	3.60	120	eP	21	12.70	-0.2
		eS			21 47.50	
EVAL	4.16	107	iPn	21	20.60	-0.3
		eSn			21 59.30	
MVO	4.25	57	eP	21	22.30	0.1
		eS			22 03.80	
EPLA	4.53	74	ePn	21	26.20	0.1
		eSn			22 09.00	
EHOR	5.23	100	iPnd	21	55.00	-1.0
		eSn			22 25.30	
EPRU	5.51	109	ePn	21	59.70	-0.4
		eSn			22 33.00	
GUD	6.09	71	ePn	21	48.30	0.0
		eSn			22 48.70	
ETOR	7.68	73	ePn	22	10.00	-0.7
		eSn			23 26.00	
TIO	8.80	154	iPn	22	26.50	0.2
		iSn			23 54.00	
S.D.	= 0.7 on 13 of 13 obs.					

% AUG 28, 1990 23h 52m 46.83±0.85s
 26.353 S ± 9.1km 27.433 E ± 8.3km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 2.7 (PRE).

BPI	0.56	72	eP	52	58.50	0.3
		S			53 06.50	
PRY	0.57	176	eP	52	57.80	-0.5
BFS	0.79	227	iPc	53	01.90	-0.9
SLR	0.98	51	iPd	53	04.90	-1.1
SEK	1.97	175	eP	53	21.20	-0.2
SWZ	2.06	246	eP	53	23.20	0.6
BFT	2.44	75	eP	53	29.00	0.8
		S			53 59.00	
BLF	2.96	202	eP	53	36.50	1.0
		S			54 11.50	
S.D.	= 1.0 on 8 of 8 obs.					

? AUG 28, 1990 23h 59m 54.97±2.55s
 31.172 S ± 39.0km 68.197 W ± 23.8km
 DEPTH = 100.0km (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.28	236	iPc	00	09.80	0.1
CFA	0.44	185	ePd	00	11.00	0.4
		eS			00 22.00	
ZON	0.56	228	iPc	00	11.00	-0.5
		eS			00 22.00	
RTCB	0.60	239	eP	00	11.90	0.0
RTCV	0.75	203	iPd	00	12.90	-0.2
RTBS	1.18	245	eP	00	18.00	0.3
		eS			00 33.00	
S.D.	= 0.4 on 6 of 6 obs.					

* AUG 29, 1990 00h 03m 38.38±1.50s
 51.266 N ± 16.5km 15.728 E ± 7.4km
 DEPTH = 10.0km (geophysicist)
 POLAND (548)
 ML 3.7 (GRF), 3.6 (VKA).

KSP	0.55	140	iPd	03	47.50	-2.1
	0.2s	114.00nm				
		iS			03 57.00	
		i			04 01.50	
BRG	1.19	251	iPg	04	01.40	0.8
		iSg			04 21.20	
PRU	1.49	211	Pn	04	05.50	0.4
		Pg			04 07.70	
		Sn			04 24.70	
		Sg			04 31.10	
CLL	1.71	273	iPn	04	06.90	-1.5
		iPg			04 09.90	
		iSg			04 37.00	
KHC	2.54	214	iPn	04	21.00	0.6
		Pg			04 27.30	
		Sn			04 56.50	
		Sg			05 07.20	
HOF	2.62	250	ePn	04	21.00	-0.5

MOX	2.67	258	ePn	04	22.50	0.3
		iPg			04 30.00	
		iSg			05 09.00	
WET	2.80	222	iPnc	04	24.60	0.5
KRA	2.94	113	eP	04	27.70	1.7
		eS			05 06.90	
VKA	3.03	173	ePg	04	35.50	8.3X
		iSg			05 18.40	
ZST	3.20	163	eP	05	19.60	49.9X
GRF	3.28	243	ePn	04	30.90	0.0
		ePg			04 44.10	
		eSg			05 28.60	
SQTA	5.01	218	iPnc	04	55.80	0.3
		i			05 52.70	
		iSn			06 06.90	

S.D. = 1.2 on 11 of 13 obs.

AUG 29, 1990 01h 33m 20.30±0.43s
 43.994 N ± 3.5km 7.460 E ± 2.7km
 DEPTH = 9.4 ± 5.7 km
 NEAR SOUTH COAST OF FRANCE (379)
 MD 1.1 (STR).

AUTN	0.02	273	Pg	33	22.07	-0.3
		Sg			33 23.26	
SAOF	0.07	96	Pg	33	22.54	-0.1
AURF	0.14	222	Pg	33	23.56	-0.1
TOUF	0.15	277	Pg	33	23.86	-0.1
		Sg			33 26.55	
ENR	0.23	353	P	33	25.56	0.2
		S			33 28.84	
MVIF	0.24	246	Pg	33	25.45	-0.1
		Sg			33 29.41	
REVF	0.26	195	Pg	33	26.29	0.5
IMI	0.32	105	P	33	26.89	-0.1
		S			33 30.99	
ROB	0.42	44	P	33	29.15	0.2
		S			33 34.37	
CALN	0.48	240	Pg	33	29.80	-0.2
PZZ	0.57	333	P	33	32.02	0.1
		S			33 39.09	
FIN	0.58	68	P	33	31.71	-0.3
		S			33 38.48	
PCP	0.95	55	P	33	38.58	0.0
		S			33 52.05	
CDR	1.27	256	eP	33	44.30	0.4
		e			34 00.80	

S.D. = 0.3 on 14 of 14 obs.

AUG 29, 1990 01h 46m 29.57±0.50s
 39.506 N ± 6.0km 115.816 W ± 4.2km
 DEPTH = 5.0km (geophysicist)
 NEVADA (37)
 ML 3.5 (NEIS). Felt (111) of
 Eureka.

KVN	1.83	256	iPd	47	01.60	-0.5
PRN	2.18	164	eP	47	07.00	-0.2
DUG	2.41	72	eP	47	10.00	-0.5
YMT3	2.75	190	eP	47	15.00	-0.3
MSU	3.01	108	eP	47	19.00	0.0
EMN	3.68	166	eP	47	28.50	0.1
CM8	3.86	249	e(P)	47	31.00	0.0
ORV	4.40	272	e(P)	47	39.00	0.5
LBFM	4.99	294	P	47	58.00	10.9X
PV09	5.30	99	eP	47	52.00	0.3
IMW	5.71	38	e(P)	48	00.00	2.7X
BW06	5.75	53	eP	47	58.00	0.1
PLM	6.20	188	eP	48	04.50	0.4

S.D. = 0.4 on 11 of 13 obs.

* AUG 29, 1990 01h 56m 10.96±0.46s

WRA 75.17 201 Pd 07 51.50 -0.1
0.4s 0.70nm 4.0mb
FLN 76.46 344 eP 07 58.00 -0.6
0.3s 1.30nm 4.4mb
LDF 76.57 344 eP 07 58.60 -0.6
0.4s 1.70nm 4.4mb
GRR 76.89 344 eP 08 00.60 -0.4
LOR 77.12 341 eP 08 01.90 -0.4
0.4s 1.15nm 4.3mb
SSF 77.38 341 eP 08 03.50 -0.2
0.6s 1.35nm 4.2mb
LPL 78.18 338 eP 08 09.10 0.6
0.4s 0.85nm 4.1mb
LPG 78.20 338 eP 08 09.30 0.7
0.6s 2.25nm 4.4mb
MAF 78.37 341 eP 08 09.70 0.5
0.6s 3.60nm 4.6mb
MFF 78.50 343 eP 08 10.00 0.1
0.3s 1.70nm 4.5mb
CAF 79.72 341 eP 08 17.10 0.5
0.4s 1.15nm 4.2mb
LFF 79.95 342 eP 08 18.30 0.6
0.6s 2.70nm 4.4mb
LPO 80.12 342 eP 08 19.20 0.5
0.4s 2.30nm 4.5mb
BCAO 112.32 313 ePd 11 36.60 -12.4X
0.7s 21.00nm
i 10 44.70
i 11 49.10
i 12 15.40
S.D. = 0.5 on 19 of 20 obs.

AUG 29, 1990 02h 41m 35.01 ± 0.24s
27.187 N ± 4.9km 92.755 E ± 3.7km
DEPTH = 33.0km (normal)
4.8mb (36 obs.) 3.9Msz (1 obs.)
INDIA-CHINA BORDER REGION (313)

LSA 2.88 331 iPnc 42 24.80 4.8X
Pg 42 33.20
Sn 42 59.00
Sg 43 05.10
GUN 6.15 278 P 43 06.00 -0.3
PKI 6.54 275 P 43 10.40 -1.4
KKK 6.67 277 P 43 12.00 -1.4
DMN 6.81 275 P 43 14.20 -1.3
GKN 7.25 278 P 43 20.00 -1.5
CHG 10.09 144 eP 44 02.30 1.5
0.8s 17.35nm 5.4mb
CD2 10.32 66 eP 44 05.60 1.7
BDT 11.46 148 eP 44 15.80 -3.6X
GYA 12.44 90 P 44 32.00 -0.8
LZH 12.95 44 iPc 44 38.70 -0.8
1.5s 99.00nm 5.7mb
Z 11s 2.60um 4.1Msz
PP 44 43.00
GTA 13.54 24 P 44 45.60 -1.6
1.0s 10.00nm 4.7mb
NDI 13.82 280 iPc 44 47.00 -3.8X
1.0s 20.00nm 4.9mb
eS 47 13.00
XAN 15.50 60 P 45 10.50 -2.3
NNT 15.93 154 eP 45 16.00 -2.4
HYB 16.33 236 iPc 45 27.00 3.5X
1.0s 40.00nm 4.5mb
WMO 17.09 347 P 45 37.00 4.0X
WHN 19.20 75 eP 45 58.00 -0.9
POO 19.42 248 eP 46 02.50 1.0
BTO 19.56 42 eP 46 02.00 -1.0
N 12s 0.90um
E 12s 0.80um
TIY 19.61 53 eP 46 09.00 5.4X
Z 12s 1.80um
E 10s 0.80um
GBA 19.69 230 Pc 46 02.70 -1.8
0.8s 9.30nm 4.1mb
HMC 20.65 44 eP 46 13.20 -1.3
SNG 21.26 158 eP 46 20.80 0.1
KOD 22.19 223 eP 46 31.50 1.1
QUE 22.82 284 eP 46 37.40 1.0
NJ2 23.18 72 eP 46 41.50 1.9
BJI 23.26 51 eP 46 42.00 1.7
Z 10s 0.96um 4.6MszX
N 10s 1.07um
SSE 25.11 74 eP 47 09.00 10.7X
1.0s 12.00nm
Z 16s 0.60um 4.2MszX

PRNI 50.26 288 iPc 50 28.00 -2.3
MBH 50.48 287 eP 50 32.00 0.1
RMN 50.55 288 eP 50 33.00 0.5
VRI 54.69 309 ePd 51 04.00 0.8
MLR 55.27 308 ePc 51 08.50 1.0
SUF 55.51 329 iP 51 09.30 0.5
0.3s 8.60nm 5.3mb
NUR 55.99 326 eP 51 13.00 0.7
SOD 56.04 335 iP 51 13.00 0.4
KEV 56.40 338 eP 51 16.00 0.8
NAI 60.75 252 iPd 51 47.00 0.6
1.0s 20.00nm 5.2mb
KSP 61.08 315 eP 51 47.80 -0.1
HFS 61.44 326 eP 51 51.60 1.3
1.2s 25.00nm 5.2mb
Z 18s 0.07um 3.9Msz
LR 14 26.00
WB5 61.76 135 eP 51 52.70 -0.2
WRA 61.79 135 Pc 51 52.90 -0.2
0.7s 8.20nm 5.0mb
WARB 62.29 146 eP 51 56.00 -0.3
0.4s 2.00nm 4.6mb
PRU 62.32 314 P 51 56.70 0.4
BRG 62.54 316 eP 51 58.40 0.7
1.2s 11.00nm 4.9mb
NB2 62.56 327 P 51 57.20 -0.6
0.8s 7.00nm 4.8mb
CLL 63.05 316 eP 51 59.00 -2.0
ASPA 64.30 138 eP 52 09.70 0.0
1.1s 12.00nm 4.9mb
QIS 65.65 131 eP 52 18.10 -0.3
0.9s 7.00nm 4.8mb
CDF 67.31 314 eP 52 28.70 -0.1
LPG 68.49 311 eP 52 36.70 0.2
1.2s 8.95nm 4.7mb
LPL 68.49 311 eP 52 36.60 0.2
1.0s 6.10nm 4.6mb
LOR 69.85 314 eP 52 44.10 -0.3
1.0s 5.00nm 4.5mb
LBF 69.86 313 eP 52 44.30 -0.3
1.2s 5.95nm 4.5mb
SMF 70.06 313 eP 52 45.60 -0.1
1.0s 6.00nm 4.6mb
SSF 70.14 313 eP 52 46.10 -0.1
1.0s 10.00nm 4.8mb
AVF 70.33 313 eP 52 47.40 0.1
1.0s 6.00nm 4.6mb
MAF 71.03 313 eP 52 52.20 0.6
1.0s 5.00nm 4.5mb
TCF 71.24 313 eP 52 53.50 0.6
1.0s 8.00nm 4.7mb
EKA 71.31 323 P 52 54.00 0.9
0.7s 4.60nm 4.6mb
CAF 71.81 312 eP 52 57.10 0.8
1.1s 12.20nm 4.8mb
LDF 71.93 316 eP 52 56.90 0.0
1.0s 8.00nm 4.7mb
RJF 72.04 312 eP 52 58.60 0.9
1.0s 8.00nm 4.7mb
GRR 72.46 316 eP 53 00.10 0.0
0.6s 3.60nm 4.5mb
LPO 72.48 312 eP 53 01.20 0.9
1.0s 8.00nm 4.7mb
LFF 72.68 312 eP 53 02.30 0.9
1.0s 12.00nm 4.8mb
BCAO 73.95 267 iPc 53 08.90 -0.5
0.5s 15.00nm 5.2mb
KRI 75.25 242 iPd 53 16.30 -0.6
BUL 77.91 240 iPc 53 30.50 -1.2
BFT 80.06 234 iP 53 45.00 1.6
0.7s 38.00nm 5.5mb
SLR 81.37 235 iPd 53 51.50 1.3
0.9s 50.00nm 5.5mb
BPI 81.81 235 iPc 53 54.00 1.4
SEK 83.35 234 eP 54 01.00 0.5
0.5s 8.00nm 5.1mb
TIO 84.30 302 iPd 53 53.00 -12.4X
SWZ 84.37 236 eP 54 04.00 -1.6
0.9s 20.00nm 5.3mb
BLF 84.83 234 eP 54 09.00 1.1
0.9s 116.00nm 6.1mb X
S.D. = 1.1 on 69 of 77 obs.
% AUG 29, 1990 03h 06m 47.14 ± 1.85s
16.735 N ± 17.7km 61.848 W ± 15.6km
DEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)

ML 2.0 (FDF).

MGH 0.35 268 eP 06 54.50 0.1
S 06 59.60
PAG 0.72 167 iPd 07 01.71 0.4
S 08 11.20
NEV 0.80 300 eP 07 02.60 -0.1
S 08 13.80
MGG 0.96 148 eP 07 05.60 0.2
BBL 1.26 164 eP 07 09.90 -0.6
S.D. = 0.5 on 5 of 5 obs.

* AUG 29, 1990 03h 21m 16.72 ± 1.39s
32.978 N ± 16.9km 116.630 W ± 10.0km
DEPTH = 10.0km (geophysicist)
CALIFORNIA-MEXICO BORDER REGION (45)
ML 3.2 (PAS). Felt (IV) at
Julian, California.

PLM 0.42 333 iPd 21 25.80 0.4
PEC 1.01 334 eP 21 35.30 -0.6
GLA 1.52 87 eP 21 44.00 0.0
ABL 2.85 312 eP 22 03.50 0.2
BLP 3.51 298 eP 22 12.10 -0.4
BCH 3.61 308 eP 22 14.40 0.4
CM8 5.90 330 P 23 00.00 13.7X
S.D. = 0.5 on 6 of 7 obs.

* AUG 29, 1990 03h 22m 40.29 ± 0.75s
24.145 S ± 11.5km 64.059 W ± 12.0km
DEPTH = 33.0km (normal)
4.6mb (5 obs.)
SALTA PROVINCE, ARGENTINA (129)

CCH 7.01 343 eP 24 25.00 1.5
CNC8 8.17 333 P 24 40.00 -0.1
LPB 8.47 333 P 24 45.00 0.9
SIV 8.58 20 P 24 44.00 -1.3
ZOB0 8.71 333 eP 24 47.00 -0.6
MDZ 9.67 205 eP 25 13.40 13.1X
KIC 65.26 70 Pc 33 22.80 1.5
0.6s 7.50nm 5.0mb
LKO 66.16 67 P 33 26.92 -0.2
FVM 66.58 338 P 33 26.00 -3.3X
0.6s 8.45nm 5.0mb
ALO 71.20 324 eP 33 57.30 -0.9
1.0s 5.00nm 4.5mb
ANMO 71.20 324 P 33 57.10 -1.1
GLD 74.27 328 P 34 16.20 0.0
GOL 74.30 328 P 34 16.00 -0.5
0.6s 2.06nm 4.3mb
MSU 76.92 323 P 34 31.70 0.3
DAU 77.80 325 P 34 36.80 0.5
DUG 78.47 324 P 34 40.20 0.5
BW06 78.68 328 P 34 40.30 -0.7
1.0s 1.67nm 4.0mb
KVN 80.65 320 P 34 51.50 -0.1
LBFM 84.35 320 P 35 10.80 0.2
S.D. = 0.9 on 17 of 19 obs.

AUG 29, 1990 03h 29m 17.29 ± 2.46s
31.668 S ± 30.1km 69.686 W ± 24.2km
DEPTH = 33.0km (normal)
SAN JUAN PROVINCE, ARGENTINA (137)

RTBS 0.20 88 ePd 29 23.20 -0.7
RTCB 0.78 77 e(P) 29 32.00 0.1
RTCV 1.00 101 ePc 29 35.30 0.3
RTLL 1.09 72 e(P) 29 36.60 0.2
JACH 1.27 217 iPc 29 45.00 6.1X
iS 29 57.60
PEL 1.70 210 iPd 29 45.60 0.5
iS 29 58.80
ROCH 1.72 220 iPd 29 40.00 -5.5X
iS 29 49.20
FCH 1.73 197 iPd 29 51.50 5.7X
iS 30 09.00
PCH 2.07 200 ePc 29 51.20 0.7
iS 30 10.60
TACH 2.24 208 iPc 29 47.50 -5.4X
iS 30 02.00
CHCH 2.40 200 eP 29 54.00 -1.2
LCCH 2.40 221 iPd 29 42.50 -12.7X
LNV 2.70 212 iPc 29 48.90 -10.4X
iS 30 04.80
S.D. = 0.8 on 7 of 13 obs.

29d 03h

* AUG 29, 1990 03h 53m 44.52 \pm 1.50s
36.420 N \pm 8.8km 70.447 E \pm 8.6km
DEPTH = 99.6 \pm 18.2 km
4.5mb (10 obs.)

HINDU KUSH REGION (718)

KSH	5.32	54	P	55	04.00	0.9
			S	56	06.00	
QUE	6.87	206	eP	55	25.00	0.5
			eS	56	46.30	
MAIO	8.84	272	iPnc	55	42.10	-9.2X
	0.8s	13.18nm				4.8mb
			eSn	56	20.00	
NDI	9.60	142	eP	56	02.50	1.1
			eS	57	52.00	
GKN	14.64	121	P	57	07.60	-0.4
WMO	15.11	55	P	57	13.00	-0.8
Z	16s	1.40um				
DMN	15.21	121	P	57	15.80	0.5
	0.4s	18.00nm				4.7mb
KKN	15.22	120	P	57	14.40	-1.0
PKI	15.44	121	P	57	18.20	-0.1
	0.6s	23.00nm				4.6mb
GUN	15.57	119	P	57	19.00	-0.9
	0.4s	21.00nm				4.7mb
GTA	23.32	74	eP	58	49.00	4.6X
Z	12s	0.60um				4.3MszX
		PP	58	56.60		
GBA	23.57	163	Pd	58	52.40	5.6X
	0.7s	6.20nm				4.1mb
XAN	31.38	83	eP	00	03.00	5.1X
TIY	33.33	75	eP	00	14.20	-0.6
Z	18s	0.70um				4.4Msz
E	10s	0.20um				
NUR	37.63	324	eP	00	51.00	0.1
SUF	37.75	328	eP	00	51.00	-0.9
SOD	39.62	335	eP	01	07.00	-0.4
HFS	42.85	322	ePKP	01	33.10	-0.8
	0.5s	3.90nm				4.5mb
NB2	44.18	323	P	01	43.60	-1.1
	0.8s	2.10nm				4.0mb
BCAO	57.22	249	ePc	03	23.30	-0.4
	0.4s	3.00nm				4.7mb
INK	74.06	9	eP	05	13.00	2.4
YKA	81.35	2	eP	05	53.00	2.3
	0.7s	1.50nm				3.9mb
WB5	82.31	121	eP	06	01.80	5.4X
WRA	82.33	122	P	06	03.00	6.4X
	1.2s	4.80nm				4.2mb

S.D. = 1.2 on 18 of 24 obs.

? AUG 29, 1990 04h 06m 27.97 \pm 5.77s
31.168 S \pm 42.2km 68.869 W \pm 17.7km
DEPTH = 150.1 \pm 40.6 km

SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.32	170	ePd	06	49.00	-0.2
RTLL	0.38	115	iPc	06	49.90	0.5
ZON	0.41	157	iPd	06	49.00	-0.5
			eS	06	59.00	
CFA	0.69	129	iPd	06	51.10	0.4
			eS	07	04.00	
RTBS	0.70	225	ePd	06	50.60	-0.1
RTCV	0.75	158	iPc	06	50.50	-0.6
MDZ	1.71	179	eP	07	03.70	3.5X
			i(S)	07	15.50	
JACH	2.10	224	iPd	07	05.50	0.7
			iS	07	30.50	
FCH	2.47	209	iPd	07	10.30	0.8
			iS	07	40.00	
PEL	2.50	218	iPc	07	09.50	-0.1
			iS	07	37.00	
ROCH	2.56	225	iPd	07	10.50	0.0
			iS	07	38.60	
PCH	2.81	209	ePc	07	14.50	0.9
			iS	07	46.00	
TACH	3.03	215	iPd	07	15.90	-0.4
			iS	07	49.50	
CHCH	3.14	208	ePc	07	17.50	-0.3
			i	07	52.50	
LCCH	3.24	224	iPc	07	19.00	0.0
LNV	3.51	217	iPd	07	21.40	-1.1
			i	07	52.00	

S.D. = 0.6 on 15 of 16 obs.

? AUG 29, 1990 05h 04m 15.32 \pm 4.52s
43.511 N \pm 40.3km 11.110 E \pm 16.5km

DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

PGD	0.57	50	P	04	27.00	-0.1
			eSg	04	34.50	
CRE	0.62	79	P	04	28.00	0.1
			eSg	04	36.00	
BDI	0.66	326	P	04	28.40	-0.2
			eSg	04	36.50	
MME	0.74	337	P	04	30.30	0.2

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

? AUG 29, 1990 05h 16m 06.34 \pm 2.11s
20.604 S \pm 25.5km 179.013 W \pm 17.3km
DEPTH = 611.0 \pm 26.2 km
4.5mb (12 obs.)

FIJI ISLANDS REGION (181)

DZM	13.63	261	iPc	19	01.60	0.6
CAN	31.67	236	eP	21	42.90	-0.3
BWA	31.84	238	eP	21	45.00	0.3
STK	36.89	244	eP	22	26.60	0.2
	1.6s	27.00nm				4.6mb
ASPA	43.57	257	iPd	23	20.20	0.3
WB5	43.63	262	iPd	23	20.20	-0.1
WRA	43.64	262	Pc	23	20.60	0.2
	0.4s	8.70nm				4.6mb
MTN	48.22	271	iPc	23	55.30	0.0
	0.4s	44.00nm				5.3mb
FORR	48.35	247	iPc	23	55.50	-0.5
	0.4s	26.00nm				5.1mb
WARB	49.89	253	eP	24	06.00	-1.5
	0.3s	4.00nm				4.4mb
MBL	56.81	258	iPd	24	56.20	-0.2
	0.4s	11.00nm				4.5mb
NANU	60.45	255	eP	25	21.00	0.3
	0.4s	11.00nm				4.5mb
ARN	79.05	43	P	27	10.20	0.5
LBFM	81.22	40	P	27	21.20	0.2
KVN	82.23	43	P	27	25.80	-0.4
RMW	84.99	35	P	27	39.80	0.4
MSU	85.86	46	P	27	45.00	1.0
DPW	87.19	36	P	27	49.80	-0.1
PNT	87.27	34	eP	27	51.00	0.9
	0.6s	4.00nm				4.3mb
PV09	87.94	47	eP	27	53.00	-0.9
NEW	88.01	36	eP	27	52.50	-1.1
	1.0s	2.50nm				4.0mb
ALO	88.21	52	eP	27	55.00	0.0
	0.9s	1.47nm				3.8mb
FBA	88.55	13	P	27	54.70	-1.0
	0.7s	11.63nm				4.9mb
BW06	89.70	44	P	28	00.80	-0.9
	0.7s	2.44nm				4.2mb
SOD	130.50	347	ePKP	34	21.00	11.6X
SUF	134.52	344	ePKP	34	14.00	-3.1X
NUR	136.77	343	ePKP	34	22.00	0.6
NB2	138.96	352	PKP	34	17.40	-8.1X
	0.7s	1.20nm				
HFS	139.49	350	ePKP	34	18.30	-8.1X
	0.6s	4.80nm				
EKA	145.18	4	PKP	34	38.00	1.6
	0.5s	2.40nm				
DSI	147.36	297	iPKPd	34	45.30	4.7X
KSP	147.50	342	ePKP	34	45.50	5.2X
PRNI	147.91	294	iPKPd	34	47.00	5.4X
CLL	147.94	346	iPKPd	34	45.50	4.6X
	0.8s	16.00nm				
BRG	148.11	344	iPKP	34	46.40	5.2X
RMN	148.19	295	ePKP	34	48.00	5.9X
PRU	148.76	343	PKP	34	48.00	5.7X
MEM	149.80	354	PKP	34	50.00	6.3X
KHC	149.81	343	ePKP	34	51.00	7.1X
DOU	150.43	355	PKPc	34	51.80	7.0X

S.D. = 0.8 on 26 of 40 obs.

? AUG 29, 1990 05h 25m 22.63 \pm 2.93s
33.915 S \pm 17.8km 71.210 W \pm 9.9km
DEPTH = 57.9 \pm 28.3 km

NEAR COAST OF CENTRAL CHILE (135)

LNV	0.17	256	iPd	25	31.80	0.1
			iS	25	39.40	
TACH	0.35	42	iPd	25	33.00	-0.1
			iS	25	41.00	
CHCH	0.47	92	iPc	25	34.20	-0.1
			iS	25	43.30	

LCCH	0.53	326	iPd	25	34.70	-0.1
			iS	25	44.30	
SAN	0.65	45	iPd	25	36.50	0.2
			iS	25	47.00	
PCH	0.66	64	iPc	25	36.50	0.1
			iS	25	47.00	
ROCH	0.96	10	iPd	25	40.40	0.0
			iS	25	54.20	
FCH	0.97	53	iPd	25	40.50	-0.2
			iS	25	55.00	
JACH	1.34	23	iP	25	45.50	0.1
			iS	26	02.50	

S.D. = 0.1 on 9 of 9 obs.

AUG 29, 1990 06h 02m 19.19 \pm 0.20s
4.843 S \pm 3.8km 153.276 E \pm 4.2km
DEPTH = 81.8km (7 depth phases)
5.2mb (30 obs.)

NEW IRELAND REGION (190)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 9S, 17C

Centroid Location:

Origin Time 06:02:21.8 1.1

Lat 5.385 0.10 Lon 153.41E 0.10

Dep 77.5 6.7 Half-duration 1.6

Moment Tensor: Scale 10¹⁶ Nm

Mrr=3.70 0.44 Mtt=4.06 0.88

Mff=-7.76 0.89 Mrt=-2.70 0.51

Mrf=-3.54 0.61 Mtf=0.12 0.59

Principal Axes:

T Vol=7.05 Plq=47 Azm=165

N 1.75 39 17

P -8.80 16 273

Best Double Couple:Mo=7.9 \times 10¹⁶

NP1:Strike=322 Dip=44 Slip=27

NP2: 212 72 131

PMG	7.58	233	eP	04	07.00	-2.1
			eS	05	33.00	
HNR	8.04	125	ePd	04	15.00	-0.3
			eS	05	44.00	
CTA	16.62	204	iPc	06	09.50	0.9
	1.2s	175.00nm				5.1mb
			iS	09	17.00	
GUA	20.06	336	eP	06	49.60	1.1
	1.2s	500.00nm				5.7mb
			pP	07	00.30	45kmX
GUM0	20.12	336	eP	06	49.00	-0.1
	1.2s	466.67nm				5.7mb
OIS	20.51	219	iPc	06	52.40	-0.7
	0.9s	79.00nm				5.0mb
DZM	21.35	145	iPd	07	01.00	-0.7
MTN	23.27	249	eP	07	21.00	0.6
	0.5s	209.00nm				5.8mb
QLP	23.28	201	eP	07	21.00	0.6
WB5	23.71	229	iPc	07	25.50	0.8
			ePP	07	44.50	
			iPcP	11	27.50	
			eS	11	44.00	
			eScP	15	04.50	
WRA	23.77	229	Pd	07	26.60	1.3
	0.9s	94.10nm				5.2mb
KNA	26.40	244	eP	07	50.00	0.0
ASPA	26.44	223	iPc	07	50.10	-0.3
	1.1s	23.00nm				4.6mb
Z	23s	1.21um				4.4MszX
			eS	12	32.40	
			LR	17	27.20	
			eScS	19	03.70	
STK	29.04	201	iPc	08	12.90	-0.9
	1.3s	19.00nm				4.6mb
			e	08	31.00	78km
BWA	29.78	188	eP	08	20.20	-0.2
			i	11	23.00	
			e	11	41.20	
CNB	30.54	186	eP	08	28.00	0.9
CAN	30.58	187	eP	08	27.70	0.3
ADE	32.87	202	eP	08	46.70	-0.7
	0.8s	67.16nm				5.5mb
WARB	33.16	227	eP	08	49.00	-1.0
	0.4s	9.00nm				5.0mb
FORR	35.08	220	iPc	09	06.10	-0.3
	0.4s	26.00nm				5.5mb
MBL	36.27	240	iPd	09	16.60	0.0
BAG	38.62	304	eP	09	35.00	-1.6

COOL	39.86	226	eP	09 46.00	0.0	NB2	117.11	340	PKP	21 13.10	17.0X	DZM	21.68	145	iPd	34 27.10	0.2
NANU	40.51	241	eP	09 52.00	0.1		0.9s		1.50nm			WB5	23.87	229	eP	34 50.10	1.9
THZ	40.73	157	P	09 53.50	0.0	CIR	117.34	243	ePKP	21 00.00	2.3	WRA	23.93	229	Pc	34 50.40	1.6
TCW	40.81	156	P	09 54.90	0.8				ipP	21 17.90			0.5s		9.80nm		4.5mb
		e		10 11.10	64kmX	VRI	118.34	320	iPdiff	17 08.50	-9.8X	ASPA	26.63	223	eP	35 16.50	2.5X
		e		10 15.80		MLR	118.99	320	ePdiff	17 08.50	-12.9X		0.4s		10.00nm		4.7mb
MNG	40.83	154	P	09 53.80	-0.5	BUL	120.25	243	iPKPd	21 02.70	-0.7	Z	22s		0.35um		3.8MszX
	0.4s		18.00nm		5.3mb				ipP	21 20.20					LR	44 48.20	
		e		10 15.00	89km	KRI	120.32	247	iPKPd	21 03.20	-0.4	STK	29.33	200	eP	35 37.40	-0.9
WEL	41.07	155	P	09 56.00	-0.3				ipP	21 21.20			1.8s		92.00nm		5.1mb
PGZ	41.18	153	P	09 56.80	-0.4	BRG	122.94	331	ePKP	21 08.40	1.0	WARB	33.32	227	eP	36 14.00	0.7
	0.4s		34.00nm		5.5mb		0.9s		10.00nm				0.3s		2.00nm		4.4mb
		i		10 18.50	91km				e	21 26.00		FORR	35.29	219	iPd	36 31.00	1.0
LTZ	41.37	159	P	09 59.00	0.2	PRU	123.20	329	ePKP	21 09.00	1.0		0.4s		17.00nm		5.3mb
		e		10 17.50	76km	SKO	123.47	318	iPKP	21 09.30	0.5	PKI	72.61	301	P	41 00.00	-2.1
MOW	41.39	155	P	09 58.50	-0.4				i	21 26.20		HFS	116.54	339	ePdiff	44 54.10	22.6X
KHZ	41.53	157	P	09 59.50	-0.5	KHC	124.22	329	iPKP	21 11.50	1.4		0.8s		7.20nm		
MOZ	42.32	159	P	10 06.20	-0.2		1.2s		9.00nm			Z	18s		0.06um		4.3Msz
KLB	42.62	227	eP	10 08.00	-1.1	GRF	125.04	331	e(PKP)	21 12.70	1.1				LR	18 13.00	
MRWA	42.79	231	eP	10 10.00	-0.6		Z 21s		0.10um		4.5Msz	S.D. = 1.5 on 12 of 14 obs.					
	0.6s		15.00nm		5.0mb	CNCB	133.90	119	PKP	21 31.00	0.8	-----					
									e	24 57.00		% AUG 29, 1990	09h	18m	55.32±	0.80s	
BAL	42.90	229	eP	10 11.00	-0.5	LPB	133.91	118	ePKP	21 39.00	9.0X		0.083 S	± 7.5km	77.949 W	± 6.4km	
MUN	43.95	228	eP	10 20.00	0.1				e	24 55.00		DEPTH =	10.0km	(geophysicist)			
SSE	47.07	322	P	10 46.00	1.4							ECUADOR (107)					
	1.2s		19.00nm		4.9mb	ZOBO	133.99	118	PKP	21 31.00	0.6	CAYA	0.17	348	iP	18 59.00	-0.4
Z	20s		0.50um		4.5Msz		Z 24s		0.13um		4.6MszX			iS	19 07.60		
MDJ	53.63	339	eP	11 33.50	-0.7				LR	06 28.00		ANGL	0.51	127	eP	19 05.80	0.1
CN2	54.53	335	P	11 40.00	-0.9	BCAD	134.89	271	iPKPc	21 24.30	-7.2X			iS	19 19.30		
	1.0s		20.00nm		5.1mb		0.7s		19.00nm			COTA	0.57	317	P	19 07.80	0.6
			ePP	12 00.00					i	21 31.90		QUR	0.59	261	Pd	19 07.40	-0.1
BJI	56.19	326	eP	11 53.00	0.1				i	21 50.10				iS	19 22.00		
	1.5s		13.00nm		4.8mb	CCH	135.25	121	ePKP	21 43.40	11.0X	YANA	0.62	267	iPd	19 08.20	0.0
Z	22s		0.37um		4.4Msz	SIV	140.20	122	PKP	21 43.40	2.1			iS	19 21.80		
TIY	56.85	322	eP	11 55.50	-2.3	AVE	146.45	330	iPKP	21 54.00	2.5X	GGP	0.65	262	iPd	19 08.60	-0.2
			0.70um		4.9MszX				i	22 10.00				eS	19 25.00		
XAN	56.98	316	P	11 58.50	-0.3	TIO	148.24	327	ePKP	21 54.00	-0.6	VC1	0.71	219	P	19 05.80	-3.9X
AFR	57.07	108	iP	11 59.10	-0.4				i	21 59.50				iS	19 19.80		
	0.8s		15.00nm		5.1mb	BAO	150.72	134	ePKP	22 04.40	5.6X	S.D. = 0.4 on 6 of 7 obs.					
PPT	57.26	108	iP	12 00.30	-0.6		S.D. = 1.0 on 82 of 97 obs.	-----									
	0.8s		10.00nm		5.0mb	AUG 29, 1990 06h 14m 45.05± 0.80s											
PPN	57.39	108	iP	12 01.40	-0.4	35.425 N ± 8.5km 25.943 E ± 7.0km											
	0.8s		15.00nm		5.1mb	DEPTH = 10.0km (geophysicist)											
TVO	57.59	108	iP	12 02.90	-0.4	3.8mb (3 obs.) 3.4Msz (1 obs.)											
	0.8s		15.00nm		5.1mb	CRETE (370)											
CHG	58.43	295	eP	12 21.50	12.4X	MD 4.0 (ATH).											
PMO	58.67	105	iP	12 10.00	-0.7												
	0.8s		25.00nm		5.4mb	NPS	0.32	239	ePg	14 51.50	-0.1	MGR	1.01	21	P	44 27.00	-0.4
			ipP	12 30.50	80km	KAP	1.01	83	ePg	15 01.20	-3.0X	ATN	1.07	164	Pc	44 27.70	-0.5
TPT	58.93	104	iP	12 11.80	-0.8	VAM	1.42	270	ePb	15 11.50	0.6			eSn	44 42.00		
	0.8s		20.00nm		5.3mb	APE	1.67	349	ePb	15 14.50	-0.1	TDS	1.07	64	P	44 28.00	-0.3
			ipP	12 32.20	80km	SMG	2.39	17	ePn	15 24.30	-0.5			eSn	44 42.80		
VAH	58.94	105	iP	12 11.70	-0.9	VLI	2.76	299	ePn	15 29.70	-0.4	SOI	1.35	146	P	44 31.00	-1.1
	0.8s		10.00nm		5.0mb	KSL	3.04	76	ePg	15 42.70	6.7X			eSn	44 48.80		
CD2	59.13	310	eP	12 13.70	-0.1	ATH	3.11	326	ePn	15 36.80	1.8	ORI	1.36	50	P	44 31.00	-1.4
RUV	59.17	105	iP	12 13.60	-0.6	IJM	3.15	19	ePn	15 47.00	11.3X			eSn	44 50.20		
	0.8s		15.00nm		5.2mb	ELL	3.47	66	ePn	15 37.10	-3.2X	SGO	1.38	7	P	44 31.50	-1.0
			ipP	12 33.90	79km	KHL	4.07	44	ePn	15 54.00	5.2X	S.D. = 0.7 on 6 of 6 obs.					
BTO	60.12	323	eP	12 20.00	-0.5	ALT	4.92	41	ePn	16 01.00	0.2	? AUG 29, 1990 10h 51m 23.44± 6.99s					
LZH	61.59	316	P	12 32.00	1.3	OHR	6.97	326	eP	16 13.00	-16.7X	10.740 N ± 27.1km 59.854 W ± 55.3km					
	1.5s		71.00nm		5.5mb	DSI	8.77	113	eP	16 55.00	0.3	DEPTH = 33.0km (normol)					
Z	20s		0.50um		4.7Msz	LBF	20.09	312	eP	19 19.80	-1.7	NORTH ATLANTIC OCEAN (402)					
GTA	66.01	317	P	12 59.80	0.4		0.9s		3.30nm		3.7mb	BOT	0.95	297	eP	51 40.29	-0.1
	1.2s		40.00nm		5.2mb	LOR	20.29	312	eP	19 18.90	-4.7X			eS	51 51.73		
							0.6s		2.70nm		3.8mb	TPR	1.01	296	eP	51 41.22	-0.1
SHL	66.74	300	iP	13 02.50	-1.9		Z 20s		0.17um		3.4Msz			eS	51 52.68		
GUN	72.55	301	P	13 40.70	0.6	SSF	20.41	312	eP	19 19.30	-5.5X	TBH	1.22	258	eP	51 44.00	-0.3
PKI	72.86	301	P	13 42.20	0.3		0.7s		4.95nm		4.0mb	TRN	1.53	267	eP	51 48.67	0.0
KKN	73.03	301	P	13 43.20	0.5		S.D. = 1.1 on 9 of 17 obs.	-----									
DMN	73.13	301	P	13 44.00	0.6	* AUG 29, 1990 06h 29m 42.24± 1.50s											
SBA	73.31	177	eP	13 45.30	2.2	4.499 S ± 18.3km 153.189 E ± 12.5km											
GKN	73.63	301	P	13 46.80	0.6	DEPTH = 94.0 ± 13.5 km											
WMO	76.09	317	P	14 01.00	1.1	4.6mb (7 obs.)											
KOD	76.96	282	eP	14 10.00	4.5X	NEW IRELAND REGION (190)											
GBA	77.44	285	Pc	14 07.60	-0.1	RAB	1.06	287	iPd-	30 04.00	0.8	BOT	0.95	297	eP	51 40.29	-0.1
	1.1s		22.00nm		5.0mb				iS	30 20.00		TPR	1.01	296	eP	51 41.22	-0.1
PMR	79.53	24	eP	14 27.70	9.5X	PMG	7.72	231	eP	31 32.00	-1.9			eS	51 52.68		
NDI	80.16	300	eP	14 23.00	0.7				eS	32 55.00		TBH	1.22	258	eP	51 44.00	-0.3
TOA	81.00	24	eP	14 26.20	0.1	HNR	8.31	127	eP	31 42.00	0.2	TRN	1.53	267	eP	51 48.67	0.0
FBA	81.75	22	ePc	14 28.40	-1.5				eS	33 13.00		TCE	1.87	269	eP	51 54.05	0.4
	1.2s		14.80nm		4.8mb	CTA	16.90	203	iPd	33 33.20	-1.2			eS	52 14.05		
SPA	85.19	180	iPc	14 49.10	1.5		1.3s		48.06nm		4.6mb	SVB	2.86	332	eP	52 07.88	0.1
	1.0s		133.00nm		5.9mb	QIS	20.72	218	iPd	34 17.00	-0.2			eS	52 38.68		
MAW	85.71	203	eP	14 51.00	1.0		0.7s		8.00nm		4.2mb	S.D. = 0.3 on 6 of 6 obs.					
INK	88.33	21	eP	15 20.00	17.4X	? AUG 29, 1990 11h 58m 41.78± 1.01s											
LBFM	89.29	49	eP	15 27.80	19.8X	44.369 N ± 10.6km 7.361 E ± 8.9km											
KVN	91.95	51	eP	15 30.80	10.5X	DEPTH = 10.0km (geophysicist)											
YKA	95.24	28	eP	15 51.90	17.2X	NORTHERN ITALY (545)											
	0.8s		1.60nm			ML 1.6 (GEN).											
						STV	0.13	192	P	58 45.37	0.4			S	58 48.76		
						ENR	0.15	163	P	58 44.76	-0.5			S	58 47.73		
						PZZ	0.23	306	P	58 46.70	-0.1			S	58 50.50		

29d 11h

ROB 0.37 101 P 58 49.58 0.1
S 58 55.52
S.D. = 0.7 on 4 of 4 obs.

AUG 29, 1990 12h 33m 36.46±0.46s
41.485 N ± 3.9km 19.769 E ± 4.8km
DEPTH = 20.0 ± 6.8 km

ALBANIA (391)
ML 2.8 (TTG).

TIR 0.16 152 iPg 33 41.00 -0.1
PUK 0.56 9 ePg 33 47.70 0.2
SDA 0.57 339 ePg 33 49.40 1.8
ULC 0.62 321 ePg 33 47.60 -0.8
eSg 33 59.00
OHR 0.86 115 iPg 33 51.80 -0.8
iSg 34 04.80
Lg 34 07.40
BCI 0.91 14 iPg 33 53.70 0.3
TTG 1.02 338 ePg 33 54.40 -0.8
eSg 34 10.20
VLO 1.04 192 ePn 33 56.70 1.1
BDV 1.06 319 ePg 33 55.50 -0.6
eSg 34 12.00
PVY 1.12 8 ePg 33 56.00 -1.0
eSg 34 13.00
TPE 1.20 171 iPnc 33 58.00 -0.2
SKO 1.34 68 iPg 34 00.70 0.6
iSg 34 16.70
Lg 34 21.50
HCY 1.35 316 ePg 34 00.20 0.0
eSg 34 20.00
IVA 1.39 4 ePg 34 01.50 0.7
eSg 34 21.00
NKY 1.45 337 ePg 34 01.90 0.2
eSg 34 21.90
BRY 1.68 328 ePn 34 05.50 0.3
eSn 34 27.50
BRT 2.03 253 P 34 12.00 1.9
eSn 34 41.00
VAY 2.11 94 ePn 34 11.00 -0.3
MGR 3.47 249 P 34 29.00 -1.5
SGO 3.50 256 P 34 30.00 -0.9
S.D. = 1.0 on 20 of 20 obs.

% AUG 29, 1990 13h 14m 01.62±0.79s
39.077 N ± 6.9km 27.643 E ± 8.0km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

Izm 0.74 204 iPg 14 16.20 0.0
iSg 14 28.20
DST 0.93 55 iPn 14 19.60 0.2
EZn 1.26 307 iPn 14 25.10 0.0
EDC 1.28 8 iPn 14 25.00 -0.3
BNT 1.29 9 ePn 14 26.00 0.4
IZI 1.89 48 ePn 14 34.00 -0.3
S.D. = 0.4 on 6 of 6 obs.

AUG 29, 1990 13h 15m 55.21±1.53s
36.177 N ± 9.5km 100.004 E ± 9.6km
DEPTH = 38.6 ± 16.5 km
4.6mb (10 obs.)

QINGHAI PROVINCE, CHINA (325)

LZH 3.11 91 iPnd 16 42.00 -1.2
Pg 16 47.00
Sn 17 19.50
Sg 17 26.00
GTA 3.23 357 iPnc 16 46.20 1.4
Z 10s 1.40um
Pg 16 53.00
Sn 17 29.80
Sg 17 35.20
TIY 10.07 78 eP 18 19.40 -1.1
HHC 10.19 59 eP 18 20.00 -2.1
GYA 11.23 148 P 18 36.40 0.0
WMO 12.13 313 P 18 46.20 -2.2
Z 12s 0.70um
E 16s 1.60um
S 21 02.50

BJI 13.31 68 eP 19 06.50 2.6
CHG 17.32 183 eP 19 58.10 2.3
0.8s 13.06nm 4.1mb
NDI 20.61 255 iPd 20 33.00 -0.6
CN2 20.88 61 Pc 20 38.00 1.7
NUR 52.27 323 eP 25 05.00 0.5

HFS 57.67 324 eP 25 42.70 -1.0
0.5s 3.10nm 4.6mb
NAO 58.80 325 P 25 50.30 -1.4
0.5s 1.00nm 4.2mb
WB5 64.54 144 eP 26 28.80 -1.8
WRA 64.58 144 Pd 26 29.20 -1.7
0.9s 5.20nm 4.6mb
LPG 67.33 310 eP 26 49.20 0.6
0.8s 6.70nm 4.8mb
LPL 67.33 310 eP 26 49.20 0.6
1.0s 8.00nm 4.7mb
MAF 69.50 313 eP 27 02.10 0.4
1.0s 6.00nm 4.6mb
TCF 69.68 313 eP 27 03.10 0.3
1.0s 5.00nm 4.5mb
CAF 70.47 312 eP 27 08.70 1.0
0.8s 5.35nm 4.6mb
MFF 70.89 314 eP 27 10.40 0.2
0.8s 8.05nm 4.8mb
S.D. = 1.5 on 21 of 21 obs.

AUG 29, 1990 13h 46m 38.45±0.81s
41.041 N ± 5.2km 20.061 E ± 8.1km
DEPTH = 14.2 ± 9.7 km

ALBANIA (391)

ML 2.3 (SKO).

TIR 0.34 334 iPg 46 45.20 -0.4
BERA 0.35 194 iPg 46 45.00 -0.8
OHR 0.56 83 iPg 46 49.90 0.3
iSg 46 59.60
LACI 0.65 336 ePg 46 51.00 0.0
VLO 0.72 217 ePg 46 52.70 0.6
TPE 0.75 183 iPg 46 52.30 -0.4
SDA 1.06 337 ePn 47 06.50 8.5X
SKO 1.39 48 ePn 47 03.00 -0.3
iSg 47 24.50
S.D. = 0.7 on 7 of 8 obs.

? AUG 29, 1990 14h 48m 43.84±1.11s
31.529 S ± 39.5km 69.138 W ± 19.9km
DEPTH = 120.0km (geophysicist)

SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.29 82 ePc 49 02.00 0.6
RTBS 0.30 244 ePd 49 01.20 0.0
eS 49 13.00
ZON 0.39 93 eP 49 01.00 -0.5
eS 49 12.00
RTLL 0.61 71 iPc 49 02.30 -0.5
RTCV 0.61 123 iPd 49 02.50 -0.3
CFA 0.77 96 ePd 49 04.70 0.6
eS 49 18.60
S.D. = 0.7 on 6 of 6 obs.

? AUG 29, 1990 14h 59m 10.30±0.83s
20.966 S ± 39.8km 174.363 E ± 20.9km
DEPTH = 33.0km (normal)

4.2mb (2 obs.) 4.2Msz (1 obs.)

VANUATU ISLANDS REGION (185)

NDF 4.32 43 eP 00 21.60 6.2X
SGE 4.75 46 eP 00 26.30 4.7X
SVA 4.79 54 ePc 00 22.10 0.1
VUN 4.86 53 eP 00 22.90 -0.1
DZM 7.45 260 iPc 01 01.50 1.9
iS 02 43.00
RIV 24.19 233 eP 04 25.00 0.2
ASPA 37.44 258 eP 06 18.60 -4.0X
1.0s 11.00nm 4.7mb
Z 21s 0.42um 4.2Msz
LR 20 49.30
WRA 37.45 264 P 06 20.00 -2.6
0.7s 0.90nm 3.7mb
GCC 83.18 46 ePc 11 34.50 -0.1
PRS 83.23 47 ePc 11 34.90 0.0
MHC 83.58 46 eP 11 37.10 0.3
PRI 83.62 48 e(P) 11 38.20 1.2
FRI 84.72 47 ePc 11 42.20 -0.1
WDC 84.74 43 ePc 11 42.70 0.3
CMB 84.80 46 ePc 11 42.50 -0.3
ORV 84.86 44 eP 11 43.10 0.1
KSP 145.56 335 ePKP 18 45.50 -1.1
BRG 146.42 337 ePKP 18 48.30 0.3
1.0s 12.00nm
e 19 04.60
KHC 147.98 336 ePKP 18 53.10 2.5X

SKO 149.04 319 iPKP 18 54.00 1.5X
OHR 149.92 318 ePKP 18 57.00 3.1X
S.D. = 1.1 on 15 of 21 obs.

% AUG 29, 1990 15h 00m 17.34±0.80s
37.675 N ± 7.1km 15.001 E ± 6.6km
DEPTH = 10.0km (geophysicist)

SICILY (398)

MNO 0.35 317 Pc 00 24.40 -0.3
eSn 00 29.90
MEU 0.58 186 P 00 29.00 -0.1
eSn 00 39.40
ATN 0.61 37 P 00 29.60 0.0
GIB 0.83 292 P 00 33.80 0.3
eSn 00 46.20
SOI 0.92 64 P 00 35.00 0.0
S.D. = 0.3 on 5 of 5 obs.

% AUG 29, 1990 15h 07m 21.63s
57.463 N 152.277 W

DEPTH = 78.9km

KODIAK ISLAND REGION (13)

<AGS-P>.

SHU 1.17 358 eP 07 40.36 -2.6
eS 07 54.94
CDD 1.64 334 eP 07 50.18 1.0
XLV 2.02 8 eP 07 53.20 -1.1
MCNL 2.04 329 eP 07 52.24 -2.4
CNPM 2.14 14 iP 07 54.42 -1.6
HOM 2.23 8 eP 07 56.05 -1.1
BRLK 2.42 17 eP 07 57.70 -2.2
PDB 2.54 338 eP 07 59.47 -2.0
NNL 2.64 11 iP 08 01.41 -1.4
RED 2.98 355 eP 08 05.79 -1.8
SEW 3.03 28 eP 08 05.10 -3.1
RDT 3.12 359 eP 08 07.46 -2.1
SLKM 3.23 18 eP 08 08.62 -2.5
MID 3.69 55 eP 08 16.05 -1.3
CKL 3.75 360 eP 08 16.40 -1.9
BGL 3.81 359 eP 08 18.01 -1.2
CGLM 3.86 2 eP 08 18.12 -1.8
NCG 3.95 1 eP 08 20.01 -1.2
PMS 4.04 19 eP 08 20.60 -1.8
SUA 4.09 10 eP 08 19.43 -3.7
VZW 4.65 37 eP 08 27.80 -3.1
VLZ 4.78 37 eP 08 29.79 -2.8
KLU 5.18 36 eP 08 35.28 -3.0
GLB 5.88 44 eP 08 45.10 -2.9
24 obs. associated

% AUG 29, 1990 16h 10m 49.84±0.80s
26.351 S ± 10.2km 27.439 E ± 8.4km
DEPTH = 5.0km (geophysicist)

REPUBLIC OF SOUTH AFRICA (584)

ML 2.5 (PRE).

BPI 0.56 72 eP 11 02.00 0.9
S 11 07.00
PRY 0.58 177 eP 11 02.00 0.6
S 11 09.00
BFS 0.80 227 eP 11 05.30 -0.6
S 11 19.00
SLR 0.98 51 iPc 11 08.60 -0.3
S 11 21.00
SWZ 2.06 246 ePd 11 27.00 1.3
S 11 58.00
BFT 2.44 75 eP 11 30.30 -0.8
BLF 2.96 202 eP 11 37.70 -0.8
KIM 3.36 224 eP 11 44.00 -0.2
S.D. = 1.0 on 8 of 8 obs.

% AUG 29, 1990 16h 26m 43.44±0.62s
26.328 S ± 6.3km 27.431 E ± 5.3km
DEPTH = 5.0km (geophysicist)

REPUBLIC OF SOUTH AFRICA (584)

ML 2.2 (PRE).

BPI 0.56 74 eP 26 55.00 0.3
S 27 02.30
PRY 0.60 176 eP 26 55.50 0.0
S 27 01.50
KSR 0.67 314 eP 26 56.90 0.1
S 27 05.50
BFS 0.81 225 eP 26 59.00 -0.7
S 27 09.50

SLR 0.97 53 eP 27 01.50 -0.9
 SWZ 2.07 245 ePc 27 20.00 0.6
 BFT 2.44 75 eP 27 25.20 0.5
 S 27 52.50

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

AUG 29, 1990 17h 27m 33.93 ± 1.15s
 47.340 N ± 10.5km 9.711 E ± 7.3km
 DEPTH = 10.0km (geophysicist)
 GERMANY (543)
 ML 2.5 (VIE).

SAX 0.27 250 ePd 27 39.80 0.2
 LLS 0.68 226 ePc 27 48.50 1.0
 OSS 0.72 156 ePc 27 47.10 -1.1
 VDL 0.87 191 ePc 27 49.50 -1.3
 SLE 0.93 298 ePc 27 50.80 -0.9
 SOTA 1.03 96 iPgd 27 54.20 0.8
 iSg 28 10.60
 TMA 1.36 205 ePc 28 00.50 1.4

S.D. = 1.3 on 7 of 7 obs.

AUG 29, 1990 17h 59m 44.53 ± 1.13s
 38.346 N ± 10.5km 22.262 E ± 14.5km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 3.2 (ATH).

EVR 0.67 328 ePb 59 56.50 -1.4
 ATH 1.21 108 ePb 00 07.40 0.4
 VLI 1.71 162 ePn 00 14.20 -0.3
 KZN 1.99 349 ePn 00 19.10 0.4
 PLG 2.22 24 ePn 00 20.70 -1.3
 VAY 2.98 4 ePn 00 33.00 0.3
 OHR 2.98 338 ePn 00 34.70 1.9
 SKO 3.68 350 ePn 00 38.00 -4.6X

S.D. = 1.4 on 7 of 8 obs.

AUG 29, 1990 18h 07m 18.01 ± 0.45s
 2.586 N ± 5.8km 128.659 E ± 11.0km
 DEPTH = 33.0km (normal)
 5.0mb (15 obs.) 3.9msz (1 obs.)
 HALMAHERA (267)

MKS 12.01 230 ePd 10 12.50 2.5
 KKM 12.87 286 ePc 10 23.20 1.6
 MTN 15.53 171 ePc 10 54.00 -2.3
 0.4s 47.00nm 5.0mb
 KNA 18.22 180 eP 11 31.00 0.8
 GUMO 19.40 55 eP 12 05.00 20.6X
 WB5 23.02 166 eP 12 23.10 1.8
 eS 16 28.00
 WRA 23.07 166 Pd 12 23.90 2.0
 0.7s 43.80nm 5.1mb
 OZH 24.25 337 eP 12 34.50 1.3
 MBL 25.13 200 eP 12 41.00 -0.7
 KGM 25.33 269 ePd 12 45.80 2.2
 OIS 25.38 155 iPc 12 45.40 1.3
 0.7s 68.00nm 5.4mb
 iScP 19 50.80

ASPA 26.59 169 iPd 12 56.10 0.8
 0.6s 19.00nm 4.9mb
 Z 20s 0.37um 3.9msz
 e 19 53.80
 LR 26 34.60

NANU 28.09 206 eP 13 07.50 -1.4
 WARB 28.67 184 iPd 13 14.40 0.3
 0.4s 3.00nm 4.3mb
 WHN 30.93 335 eP 13 37.00 2.9
 CHG 33.26 301 ePc 13 54.80 0.1
 1.2s 35.16nm 5.1mb

MRWA 33.87 200 eP 13 58.00 -1.9
 0.3s 4.00nm 4.8mb
 MAT 34.92 13 eP 14 07.00 -1.8
 0.8s 6.72nm 4.6mb

BAL 34.92 198 eP 14 07.00 -1.9
 KLB 35.53 196 eP 14 13.00 -1.1
 XAN 36.31 332 P 14 21.00 0.3
 MUN 36.35 198 eP 14 20.00 -1.0
 STK 36.41 161 iPc 14 22.10 0.6
 0.7s 13.00nm 4.9mb

CD2 36.71 323 eP 14 24.00 0.0
 NWAO 36.94 196 eP 14 25.00 -0.9
 TIY 38.00 339 eP 14 36.50 1.6
 ADE 38.53 167 eP 14 35.00 -4.3X

BJI 38.96 345 eP 14 43.00 0.2
 1.0s 13.00nm 4.6mb
 LZH 40.47 328 P 14 56.00 0.5
 1.5s 85.00nm 5.3mb
 Z 16s 0.50um 4.5mszX

PP 15 00.70
 SP 15 06.00
 S 21 02.00

BWA 41.24 155 eP 15 04.30 2.6
 MDJ 41.86 1 eP 15 08.00 1.4
 CAN 42.25 155 eP 15 10.10 0.1
 GTA 45.07 328 iPc 15 33.40 0.5
 1.0s 20.00nm 5.0mb

PcP 17 14.00
 GUN 47.95 306 P 15 55.70 -0.4
 PKI 48.20 305 P 15 57.60 -0.4
 KKN 48.39 306 P 15 59.20 -0.2
 DMN 48.46 305 P 16 00.00 0.0
 GKN 49.00 305 P 16 03.20 -0.8
 KOD 51.38 281 eP 16 22.00 -0.5
 GBA 51.77 285 Pd 16 23.80 -1.3

1.1s 49.00nm 5.4mb
 WMO 54.76 324 P 16 47.00 0.1
 NDI 55.35 303 iPc 16 49.60 -1.8
 MAIO 71.73 307 iPc 18 39.00 -0.3
 SOD 92.25 338 iP 20 24.70 -0.9
 SUF 93.44 333 eP 20 30.00 -1.1
 HFS 99.92 333 eP 20 58.70 -2.0

0.7s 3.40nm 5.0mb
 NB2 100.66 334 Pd iff 21 02.00 -2.0
 0.9s 2.30nm 4.7mb
 LKO 132.86 285 PKP 26 31.56 -1.1
 0.5s 5.50nm

S.D. = 1.4 on 46 of 48 obs.

? AUG 29, 1990 18h 25m 13.32 ± 3.27s
 37.561 S ± 34.4km 73.192 W ± 27.2km
 DEPTH = 33.0km (normal)
 NEAR COAST OF CENTRAL CHILE (135)

LNV 3.88 22 iP 26 12.00 -0.1
 i 27 03.40
 CHCH 4.17 30 iP 26 16.90 0.7
 i 27 11.00

LCCH 4.29 18 iPc 26 17.00 -0.9
 TACH 4.31 26 iPc 26 18.70 0.4
 iS 27 13.50

PCH 4.50 30 iPd 26 21.10 0.1
 iS 27 18.10
 SAN 4.59 27 iP 26 22.70 0.5
 i 27 19.50

FCH 4.84 30 iPd 26 26.90 0.8
 iS 27 28.40
 PEL 4.86 26 iPd 26 26.10 0.0
 iS 27 27.10

ROCH 4.91 22 iPd 26 26.50 -0.5
 iS 27 27.00
 JACH 5.31 24 iPc 26 31.60 -0.9
 MDZ 5.87 39 eP 26 55.30 15.0X
 e 27 06.10

RTBS 6.64 29 e(P) 26 52.30 1.2
 RTCV 6.86 35 e(P) 26 53.90 -0.3
 RTCB 7.06 32 e(P) 26 56.20 -0.9
 e 26 57.50

CFA 7.21 36 e(P) 27 00.00 0.9
 RTLL 7.34 33 e(P) 26 59.70 -1.2
 CCH 21.04 19 P 29 59.00 1.9
 CNCB 21.18 14 P 29 59.00 0.2

LPB 21.42 13 P 29 57.00 -4.1X
 ZOBO 21.68 13 Pc 30 03.50 -0.3
 SIV 24.01 30 P 30 24.60 -1.5

S.D. = 0.9 on 19 of 21 obs.

AUG 29, 1990 18h 38m 44.73 ± 0.71s
 36.417 N ± 6.1km 5.681 W ± 6.0km
 DEPTH = 10.0km (geophysicist)
 STRAIT OF GIBRALTAR (385)
 mbLg 2.4 (MDD).

EJIF 0.17 78 iPgc 38 48.20 -0.5
 eSg 38 53.00
 CNIL 0.30 261 iP 38 51.50 0.5
 OJEN 0.34 160 iP 38 51.50 -0.2
 GIBL 0.46 332 iP 38 53.00 -1.2

EPRU 0.66 33 ePg 38 58.50 0.7
 eSg 39 10.20
 EHOR 1.44 14 ePn 39 11.50 0.6

EVAL 1.44 324 eSn 39 33.50
 ePn 39 11.00 0.1
 eSn 39 33.00
 EBAN 2.31 40 ePg 39 31.00 7.6X
 eSg 40 01.50

S.D. = 0.8 on 7 of 8 obs.

AUG 29, 1990 18h 59m 24.18 ± 1.02s
 15.348 S ± 8.0km 167.375 E ± 6.0km
 DEPTH = 136.5 ± 9.2 km
 4.8mb (8 obs.)
 VANUATU ISLANDS (186)

PVC 2.54 159 iP 00 06.50 0.8
 iS 00 40.00
 DZM 6.75 187 iPd 01 02.30 0.2
 iS 02 20.00

HNR 9.34 308 eP 01 36.00 -0.8
 eS 03 25.00
 BWA 25.54 219 eP 04 40.50 -1.4
 CAN 25.83 216 eP 04 45.20 0.7

MNG 26.15 166 P 04 46.30 -1.1
 PGZ 26.34 165 P 04 48.20 -0.9
 LTZ 27.66 172 P 05 01.00 -0.1
 STK 28.68 230 iPc 05 11.50 1.2

0.8s 14.00nm 4.7mb
 WB5 31.75 257 eP 05 32.80 -4.7X
 WRA 31.78 257 Pd 05 36.80 -0.9
 0.7s 3.30nm 4.2mb

FORR 39.06 240 eP 06 40.00 0.6
 0.4s 28.00nm 5.4mb
 WARB 39.43 247 eP 06 43.00 0.4
 AFR 41.09 99 eP 06 56.00 -0.2

0.9s 20.00nm 4.8mb
 PMO 43.11 96 iP 07 12.00 -0.7
 0.9s 20.00nm 4.8mb
 VAH 43.34 96 iP 07 14.60 0.0

0.9s 10.00nm 4.5mb
 TPT 43.38 96 iP 07 15.20 0.3
 0.9s 30.00nm 5.0mb
 RUV 43.58 96 iP 07 16.60 0.1

0.9s 20.00nm 4.8mb
 MBL 45.39 255 eP 07 30.50 -0.4
 NANU 49.36 253 eP 08 02.10 0.3
 FLN 145.22 346 iPKPc 18 46.30 -0.7

0.6s 38.80nm
 LDF 145.29 345 iPKPc 18 46.40 -0.8
 0.6s 18.95nm
 GRR 145.66 346 iPKPc 18 47.80 0.0

0.8s 40.30nm
 LPF 146.03 346 iPKPc 18 49.20 0.8
 0.6s 18.95nm
 SOI 146.05 317 PKP 18 50.00 1.2

MFF 147.14 344 iPKPc 18 52.30 2.0
 0.8s 29.55nm
 BCAA 147.50 254 ePKPd 18 51.10 -0.7
 0.7s 27.00nm

i 18 54.60
 S.D. = 0.9 on 26 of 27 obs.

AUG 29, 1990 19h 21m 23.54 ± 0.72s
 44.450 N ± 5.5km 114.210 W ± 6.1km
 DEPTH = 5.0km (geophysicist)
 WESTERN IDAHO (33)
 ML 3.7 (BUT).

MCMT 1.04 68 iPc 21 43.10 -0.8
 HPI 1.09 132 eP 21 44.00 -0.7
 LTMT 1.50 86 ePn 21 51.60 0.1
 BGMT 1.73 62 ePn 21 55.00 0.3

HBMT 1.76 40 ePn 21 55.00 -0.1
 LRM 1.85 42 ePnd 21 56.20 -0.3
 BUT 1.95 36 ePg 22 00.10 2.3X
 eSn 22 22.80
 eSg 22 26.30

PTI 2.07 139 eP 22 00.00 0.5
 IMW 2.42 102 eP 22 05.00 0.3
 MEMT 2.57 62 ePn 22 06.90 0.2
 SXM 2.72 50 ePn 22 08.90 0.1

HRY 2.81 36 ePn 22 10.70 0.6
 BW06 3.77 115 eP 22 29.00 5.2X
 NEW 4.31 333 eP 22 31.00 -0.3
 DPW 4.40 322 eP 22 32.70 0.1

S.D. = 0.5 on 13 of 15 obs.

AUG 29, 1990 19h 34m 59.90s
 35.830 N 89.660 W

29d 19h

DEPTH = 13.1km
 TENNESSEE (506)
 <SLM>. MD 3.5 (SLM). mblg 3.5
 (NEIS). 3.4 (TUL). Felt (V) at
 Ripley; (IV) at Burlington,
 Henderson and Henning; (III) at
 Covington, Drummonds, Gotes and
 Munford, Tennessee. Felt (IV) at
 Blytheville and Tomato,
 Arkansas; (III) at Armarel,
 Manila and Osceola, Arkansas.

ECD	0.32	315	iPc	35	06.63	-0.1
OHTN	0.34	20	iPc	35	06.79	-0.3
			S	35	11.45	
MFTN	0.39	33	iPc	35	07.75	-0.4
WGAR	0.43	273	iPd	35	08.66	-0.1
GRT	0.47	24	iPc	35	09.23	-0.3
CBD	0.49	1	iPc	35	09.57	-0.2
			S	35	17.03	
LDMO	0.59	8	iPc	35	11.26	-0.2
			S	35	19.20	
ACTN	0.59	29	iPc	35	11.19	-0.3
NRMS	0.66	5	eP	35	12.49	-0.2
			S	35	21.00	
PGA	0.81	287	iPd	35	14.74	-0.6
			S	35	25.09	
DWM	0.98	8	iPc	35	17.98	-0.3
			S	35	31.37	
POW	1.28	285	iPd	35	22.92	-0.4
			S	35	40.02	
DON	1.36	351	ePc	35	24.26	-0.2
			S	35	43.10	
ELC	1.49	13	eP	35	26.35	0.0
			S	35	46.69	
OLY	1.51	258	eP	35	26.01	-0.6
			S	35	45.66	
PWLA	1.56	123	P	35	26.20	-1.1
GOIL	1.70	31	eP	35	29.34	0.0
			S	35	52.87	
CSIL	1.93	21	eP	35	32.49	-0.2
			S	35	59.33	
CIRL	2.09	36	eP	35	34.60	-0.4
			S	36	03.72	
FVM	2.24	344	eP	35	36.58	-0.6
CCM	2.56	331	eP	35	49.68	8.0
RSCP	3.34	93	P	35	51.00	-1.8
BLO	4.17	36	P	36	13.20	8.7
UYO	4.27	249	eP	36	04.20	-1.9
GBTN	4.43	91	P	36	07.20	-1.2
TUL	4.98	273	ePn	36	13.60	-2.5
	0.7s		e	36	20.50	
			i	36	30.00	
			iLg	37	32.50	
SIO	5.40	271	ePn	36	19.30	-2.8
PRM	6.24	104	P	36	31.00	-2.8
BLA	7.57	77	P	36	49.00	-3.5
GOL	13.02	292	P	38	00.00	-7.4
	30 obs.					associated

% AUG 29, 1990 19h 38m 09.96±0.96s
 46.848 N ±12.1km 4.732 E ± 6.6km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.2 (LDG).

LBF	0.53	285	Pg	38	21.10	0.3
			Sg	38	28.40	
SMF	0.65	252	Pg	38	23.60	0.7
			Sg	38	33.20	
LOR	0.73	306	Pg	38	23.60	-0.7
			Sg	38	32.40	
SSF	0.87	285	Pg	38	26.60	0.0
			Sg	38	38.00	
AVF	0.95	267	Pg	38	28.60	0.6
			Sg	38	41.50	
BGF	1.33	258	Pn	38	34.80	0.3
			Pg	38	37.00	
			Sg	38	54.40	
HAU	1.60	43	Pg	38	38.70	0.4
			Sg	38	56.60	
MAF	1.62	248	Pn	38	37.20	-1.5
			Pg	38	43.10	
			Sg	39	03.20	
BSF	1.71	54	Pg	38	40.00	-0.1
			Sg	39	00.30	

TCF 1.83 253 Pg 38 44.80 3.1X
 Sg 39 09.60
 LSF 2.29 256 Pn 38 45.20 -3.2X
 Sg 39 25.00
 S.D. = 0.8 on 9 of 11 obs.

? AUG 29, 1990 20h 20m 42.59±7.23s
 33.355 S ±22.0km 73.008 W ±55.9km
 DEPTH = 10.0km (geophysicist)
 OFF COAST OF CENTRAL CHILE (134)

LCCH	1.21	96	iPd	21	04.90	-0.2
			iS	21	21.20	
LNv	1.46	115	iPc	21	08.50	-0.5
			iS	21	27.60	
TACH	1.76	100	eP	21	13.00	-0.3
			iS	21	35.50	
PEL	1.96	84	iPc	21	08.50	-7.7X
			iS	21	27.60	
CHCH	2.05	107	iP	21	18.00	0.5
			iS	21	43.60	
			i	21	44.70	
PCH	2.10	98	iP	21	18.50	0.1
			iS	21	45.10	
JACH	2.14	72	eP	21	10.50	-0.4
			iS	21	45.40	
FCH	2.28	90	eP	21	21.90	0.8
			iS	21	50.50	
	S.D. = 0.6	on	7 of	8 obs.		

AUG 29, 1990 20h 44m 23.07±0.20s
 11.791 N ± 4.1km 95.034 E ± 3.3km
 DEPTH = 24.6km (22 depth phases)
 5.2mb (60 obs.) 4.1MsZ (6 obs.)
 ANDAMAN ISLANDS REGION (703)

NNT	4.66	80	iPc	45	32.20	-1.6
			e	56	46.00	
KBR	4.91	63	eP	45	56.00	18.8X
NST	6.28	52	iPc	45	57.00	0.4
BDT	6.64	35	eP	45	58.50	-3.2X
	0.6s		48.20nm		5.6mb	
SNG	7.16	129	eP	46	07.10	-1.9
			eS	48	20.10	
CHG	7.94	28	eP	46	19.90	0.1
	0.9s		18.91nm		5.3mb	
LOE	8.55	48	eP	46	27.00	-1.4
IPM	9.30	140	ePd	46	37.50	-1.2
	0.8s		27.10nm		5.6mb	
			e	49	46.20	
KGM	12.72	139	eP	47	26.50	1.2
KMI	15.13	28	Pc	48	01.50	4.3X
GBA	17.26	278	Pc	48	26.00	1.8
	0.8s		38.30nm		4.6mb	
KOD	17.31	267	eP	48	30.50	5.3X
PKI	18.11	331	P	48	33.80	-1.3
LSA	18.18	349	P	48	35.80	-0.3
GUN	18.19	333	P	48	35.80	-0.2
GVA	18.24	35	iPd	48	38.20	1.7
	1.4s		300.00nm		5.3mb	
DMN	18.29	331	P	48	35.50	-1.6
KKN	18.36	332	P	48	37.80	-0.2
GKN	18.84	330	P	48	41.80	-2.1
CD2	20.67	22	iPd	49	03.50	-0.4
	0.8s		200.00nm		5.6mb	
POO	21.50	291	iPc	49	14.50	2.0
KKM	21.68	103	ePc	49	21.00	6.7X
BOM	22.55	291	eP	49	21.30	-1.4
			eS	53	36.00	
NDI	23.65	318	iPc	49	35.00	1.5
			eS	53	54.00	
LZH	25.47	17	iPd	49	52.00	0.9
	1.5s		250.00nm		5.6mb	
	Z 17s		1.00um		4.4MsZ	
	E 13s		1.20um			
			PP	50	02.30	
			SP	50	05.60	
XAN	25.52	28	Pd	49	50.70	-0.7
WHN	25.86	41	Pc	49	56.00	1.4
	1.0s		100.00nm		5.4mb	
GTA	27.83	8	iPd	50	13.60	0.9
	1.4s		95.00nm		5.3mb	
NJ2	29.79	44	Pc	50	30.20	0.0
			PP	50	38.20	
TIY	30.15	28	Pc	50	33.40	-0.1
	Z 12s		1.70um		4.9MsZ	
	E 10s		0.60um			

TIA	31.44	36	eP	50	43.90	-0.9
BTO	31.59	22	eP	50	46.00	-0.2
	N 12s		0.50um			
	E 12s		0.60um			
HMC	32.39	24	eP	50	53.20	0.0
	1.2s		100.00nm		5.6mb	
Z	13s		1.20um		4.8MsZ	
WMO	32.54	350	P	50	55.00	0.6
	Z 16s		0.40um		4.2MsZ	
BJI	33.77	30	eP	51	06.00	1.0
	1.0s		48.00nm		5.4mb	
Z	16s		0.58um		4.4MsZ	
			PP	51	13.00	
DL2	35.89	37	P	51	22.60	-0.6
	1.0s		100.00nm		5.7mb	
SNY	38.94	35	iPd	51	49.30	0.5
	1.2s		100.00nm		5.4mb	
Z	14s		0.90um		4.7MsZ	
			SP	52	03.60	
MAIO	40.24	313	iPc	52	00.60	0.8
			eS	58	23.00	
CN2	41.28	34	iPc	52	09.00	0.9
	1.0s		200.00nm		5.8mb	
Z	14s		0.50um		4.5MsZ	
			PP	52	16.50	
MDJ	44.11	36	eP	52	31.00	-0.1
MAT	45.94	50	eP	52	46.00	0.1
	0.8s		5.22nm		4.5mb	
WB5	49.90	129	eP	53	17.00	0.0
WRA	49.92	129	Pc	53	15.00	-2.1
	0.8s		16.40nm		5.1mb	
QIS	54.35	126	iPd	53	50.50	0.2
	1.0s		9.00nm		4.8mb	
KAS	60.79	311	eP	54	35.00	-0.6
BBTK	61.29	309	iPc	54	38.00	-1.1
STK	62.22	136	iPc	54	45.60	0.4
	1.2s		10.00nm		4.8mb	
			e	54	53.80	27km
ELL	63.14	305	eP	54	50.00	-1.5
VRI	66.54	315	ePc	55	13.50	0.3
MLR	67.04	314	ePc	55	16.00	-0.6
BWA	68.38	134	eP	55	27.00	2.0
			e	55	35.20	26km
VAY	69.16	310	eP	55	28.00	-1.7
			i	55	36.00	26km
CAN	69.26	135	eP	55	31.20	0.8
			e	55	39.50	27km
SUF	69.96	333	iP	55	34.40	0.3
	0.6s		9.80nm		5.1mb	
SKO	70.03	310	iP	55	33.00	-2.0
NUR	70.18	330	iP	55	35.40	-0.1
			i	55	43.00	24km
OHR	70.49	310	eP	55	35.00	-2.9
SOD	70.93	338	iP	55	40.20	0.2
			i	55	47.90	25km
SPC	71.23	318	eP	55	42.20	-0.2
KEY	71.47	340	eP	55	44.00	0.8
			e	55	50.00	19km
KRA	71.48	319	iPc	55	43.40	-0.2
	0.7s		25.00nm		5.4mb	
			e	55	50.90	24km
SRO	72.45	317	iP	55	49.40	0.0
			i	55	56.90	24km
ZST	73.27	317	iP	55	53.90	-0.3
			e	56	02.00	26km
UPP	73.56	329	iP	55	55.10	-0.5
			i	56	03.30	26km
VKA	73.79	317	eP	55	57.00	-0.3
	0.9s		21.90nm		5.2mb	
			ic	55	57.70	2kmX
			i	56	05.80	
KSP	73.85	320	iP	55	57.80	0.3
	0.9s		33.00nm		5.4mb	
			ic	56	05.70	25km
PTJ	74.04	315	eP	55	56.80	-2.1
SOI	74.19	306	P	56	0	

VOY	75.48 315 iP	56 06.80 -0.4	RRL	80.55 314 P	56 33.48 -1.8	S.D. = 0.1 on 5 af 5 obs.		
	i	56 14.50 25km	BNI	80.61 314 P	56 36.00 0.5	AUG 29, 1990 23h 36m 08.30 ± 0.93s		
HFS	75.55 329 eP	56 06.70 -0.4	DOU	81.35 319 Pc	56 39.80 0.8	12.033 N ± 3.4km 140.602 E ± 4.3km		
	0.8s 15.10nm	5.1mb	CDR	81.44 313 ePc	56 40.60 0.9	DEPTH = 49.4 ± 8.7 km		
Z	19s 0.23um	4.5msz		e	56 48.00 23km	5.1mb (25 obs.)		
	LR	26 18.00	LBF	82.21 316 eP	56 43.40 -0.2	WEST CAROLINE ISLANDS (209)		
TRI	75.58 314 P	56 08.00 0.4		0.9s 22.95nm	5.2mb	GUMO	4.44 69 eP	37 14.40 -0.4
KHC	75.60 318 eP	56 07.70 -0.1	LOR	82.24 317 eP	56 43.80 0.0		0.9s 361.47nm	
BCAO	75.91 272 ePc	56 10.00 -0.1		1.0s 20.00nm	5.1mb	PJG	4.44 69 eP	37 14.80 0.0
	0.5s 14.00nm	5.2mb	Z	20s 0.08um	4.1msz	GUA	4.46 70 eP	37 15.30 0.1
	i	56 17.90 25km	SMF	82.35 316 eP	56 44.40 0.1		0.8s 620.90nm	
CLL	75.92 320 iPc	56 09.70 0.3		0.9s 18.00nm	5.1mb		eS	38 07.40
	1.4s 23.00nm	5.0mb	SSF	82.51 316 eP	56 45.20 0.1	DAV	15.61 253 eP	39 37.10 -9.6X
	i	56 17.00 23km		0.9s 8.20nm	4.8mb	BAG	19.89 285 eP	40 37.00 -1.7
WET	76.06 318 iPc	56 11.00 0.7	MAW	82.52 192 eP	56 55.00 10.3X	MAT	24.50 355 eP	41 25.00 0.7
	1.0s 18.00nm	5.1mb	AVF	82.66 316 eP	56 45.90 0.0		1.0s 7.00nm	4.1mb
BHG	76.11 316 iPc	56 10.80 0.2	BGF	83.04 316 eP	56 48.30 0.4	SSE	26.11 320 Pc	41 38.30 -1.1
	0.9s 23.00nm	5.2mb		0.9s 15.55nm	5.1mb		1.0s 44.00nm	5.0mb
FVI	76.23 315 P	56 11.00 -0.2	MAF	83.29 316 eP	56 49.50 0.3	MTN	26.44 201 iPc	41 41.90 -0.7
ARV	76.27 312 P	56 12.50 0.9		0.7s 11.60nm	5.1mb		0.6s 48.00nm	5.2mb
VVI	76.51 315 P	56 13.00 0.1	TCF	83.52 316 eP	56 51.00 0.6	WB5	32.30 191 eP	42 34.20 -0.7
MNS	76.53 311 P	56 12.00 -1.1		1.0s 12.00nm	5.0mb	WRA	32.37 191 Pd	42 34.60 -0.9
HOF	76.67 319 eP	56 14.50 0.8	CAF	83.87 314 eP	56 52.80 0.6		0.8s 30.70nm	5.2mb
NB2	76.78 330 P	56 13.70 -0.4		0.9s 12.30nm	5.1mb	CTA	32.40 170 iPd	42 36.90 1.2
	1.2s 27.00nm	5.2mb	LSF	83.99 316 eP	56 53.00 0.2		1.0s 83.00nm	5.5mb
MOX	76.82 319 iP	56 15.00 0.5		0.9s 12.30nm	5.1mb	OIS	32.40 182 iPd	42 35.20 -0.5
	1.2s 21.00nm	5.0mb	RJF	84.18 315 eP	56 54.40 0.7		0.9s 15.00nm	4.8mb
CRE	76.98 312 P	56 16.00 0.3		0.9s 16.40nm	5.3mb	GYA	34.98 299 P	42 59.40 1.2
SFI	77.04 313 P	56 15.00 -0.8	Z	20s 0.08um	4.1msz	BJI	35.26 327 eP	43 00.00 -0.2
GRF	77.12 319 ePd	56 17.00 0.8	LPO	84.52 314 eP	56 56.30 0.8		1.3s 46.00nm	5.2mb
	1.3s 37.00nm	5.3mb		0.8s 13.45nm	5.2mb	TIY	35.89 320 eP	43 05.50 -0.2
Z	20s 0.10um	4.1msz	LDF	84.64 318 eP	56 56.40 0.5		16s 1.30um	4.8mszX
	e	56 25.00 26km		0.9s 19.65nm	5.3mb	ASPA	36.08 190 iPd	43 07.80 0.4
PGD	77.13 313 Pc	56 17.60 1.0	LFF	84.79 315 eP	56 57.50 0.8		0.7s 18.00nm	5.1mb
SOTA	77.27 316 iPd	56 16.50 -0.7		0.8s 8.05nm	5.0mb	Z	17s 0.13um	3.8mszX
	0.7s 9.50nm	4.9mb	FLN	84.84 319 eP	56 57.40 0.5		LR	57 52.90
	ic	56 16.80 1kmX		0.9s 19.65nm	5.3mb	XAN	36.22 312 P	43 08.00 -0.5
	i	56 20.20	Z	21s 0.13um	4.3msz	OLP	38.55 175 iPc	43 28.90 0.9
	i	56 24.10		0.8s 14.80nm	5.3mb	CD2	38.85 305 Pd	43 31.00 0.3
OGA	77.42 316 iPc	56 18.10 -0.1	MFF	85.06 316 eP	56 58.50 0.4	BTO	39.14 322 eP	43 33.00 0.0
	0.8s 11.00nm	4.9mb		0.8s 14.80nm	5.3mb	NNT	39.90 275 eP	43 38.00 -1.5
MME	77.84 313 P	56 21.80 1.2	LPF	85.36 318 eP	57 00.40 0.9		e	50 55.20
SAL	77.85 314 P	56 21.00 0.7		1.0s 24.00nm	5.4mb	WARB	40.34 200 eP	43 44.00 1.1
BDI	77.93 313 P	56 20.20 -0.7	PMR	91.48 26 P	57 29.50 1.1		0.6s 19.00nm	5.1mb
PII	78.01 312 P	56 20.00 -1.2		0.8s 32.76nm	5.8mb	CHG	40.65 285 eP	43 47.00 1.4
OSS	78.04 315 ePd	56 21.70 0.2	INK	93.01 16 eP	57 37.50 25km	LZH	40.86 312 Pc	43 48.00 0.7
VDL	78.52 315 ePd	56 24.70 0.5	BW06	121.21 21 PKP	03 05.50 -10.5X		2.0s 50.00nm	4.9mb
SAX	78.53 316 ePd	56 24.70 0.3	ANMO	129.25 23 PKP	03 33.00 1.3	Z	26s 0.80um	4.5mszX
LLS	78.81 316 ePd	56 26.00 0.2	ALO	129.25 23 ePKP	03 32.50 0.8		PP	43 54.50
TMA	78.96 315 ePd	56 26.40 -0.2	BAO	143.91 260 ePKP	03 58.50 -0.7	DZM	42.32 143 iPc	44 01.40 2.1
SLE	79.06 317 ePd	56 27.10 0.1	SIV	156.44 257 ePKP	04 27.00 9.0X	STK	43.67 179 iPd	44 10.30 0.3
PGF	79.23 311 eP	56 28.80 0.7	CNCB	162.80 251 ePKP	04 29.00 3.5X		1.0s 18.00nm	4.8mb
	0.9s 8.20nm	4.8mb	ZOBO	163.07 253 PKP	04 28.30 2.5X	FORR	44.30 195 eP	44 16.00 0.9
PCP	79.35 313 P	56 27.02 -1.6	S.D. = 0.9 on 148 af 160 obs.				0.4s 15.00nm	5.1mb
CKI	79.55 313 P	56 30.00 0.4	AUG 29, 1990 21h 20m 53.87 ± 8.27s			GTA	45.19 314 P	44 23.20 0.8
MMK	79.60 315 ePd	56 30.50 0.3	17.442 N ± 68.0km 61.886 W ± 35.6km				1.0s 30.00nm	5.1mb
FIN	79.63 313 P	56 29.89 -0.2	DEPTH = 33.0km (normol)			COOL	46.59 203 eP	44 33.00 -0.4
ORX	79.63 315 P	56 29.79 -0.4	LEEWARD ISLANDS (92)			BWA	46.79 171 eP	44 36.30 1.3
WTS	79.73 321 eP	56 31.00 0.7	ML 3.1 (FDF).			MRWA	47.39 210 iPc	44 39.20 -0.5
	1.0s 26.00nm	5.2mb					0.6s 13.00nm	5.1mb
	e	56 38.50 24km	NEV	0.72 245 eP	21 07.60 0.0	CAN	47.76 171 eP	44 43.70 1.1
WIT	79.73 322 e(P)	56 32.50 2.2		S	21 22.40	BAL	48.22 208 eP	44 46.00 -0.2
CDF	79.81 317 eP	56 30.70 -0.3	MGH	0.78 204 eP	21 08.52 0.0	KLB	48.59 206 eP	44 49.00 0.0
	1.0s 8.00nm	4.7mb		S	21 23.90	SMY	48.66 27 P	44 50.20 1.0
ROB	79.86 313 P	56 31.12 -0.2	PAG	1.42 172 eP	21 17.49 -0.1	TOO	49.55 175 iPc	44 58.40 2.1
IMI	79.89 313 P	56 31.53 0.0		S	21 39.00	ADK	52.55 32 P	45 18.40 -0.5
DIX	79.98 315 ePd	56 33.00 0.8	BBL	1.95 168 eP	21 25.40 0.1		1.0s 62.50nm	5.6mb
ENR	80.19 313 P	56 32.04 -1.1	S.D. = 0.2 on 4 af 4 obs.			GUN	53.38 296 P	45 26.30 0.5
RSP	80.19 314 P	56 32.04 -1.2	AUG 29, 1990 23h 04m 14.06 ± 0.75s			PKI	53.77 295 P	45 28.60 0.0
BSF	80.20 317 eP	56 33.00 -0.2	44.821 N ± 5.4km 7.215 E ± 8.5km			KKN	53.98 296 P	45 29.40 -0.1
SBF	80.22 313 eP	56 34.20 0.9	DEPTH = 10.0km (geophysicist)			DMN	54.04 295 P	45 30.80 0.3
	0.8s 21.50nm	5.2mb	NORTHERN ITALY (545)				0.8s 32.00nm	5.4mb
LSD	80.23 314 P	56 33.89 0.3	ML 1.9 (GEN).			GKN	54.49 296 P	45 33.80 0.1
STV	80.25 313 P	56 32.45 -1.1	RRL	0.32 288 P	04 20.90 0.1	WMO	55.25 315 P	45 39.50 0.5
DOI	80.28 313 P	56 32.00 -1.6		S	04 25.31	NDI	61.05 296 iPd	46 19.00 -0.7
PZZ	80.38 314 P	56 32.25 -2.0	PZZ	0.33 194 P	04 20.80 -0.1	TCW	61.43 152 P	46 21.00 -0.9
MEM	80.38 320 P	56 34.70 0.8		S	04 25.10	KIW	61.45 151 P	46 21.50 -0.6
	ec	56 42.20 24km	RSP	0.33 5 P	04 21.00 0.0	GBA	61.46 279 Pc	46 21.70 -0.9
ENN	80.42 320 e(P)	56 42.00 7.9X		S	04 25.61		1.1s 19.50nm	5.1mb
	1.0s 10.00nm	4.8mb	LSD	0.64 356 P	04 26.95 -0.1	MNG	61.54 150 P	46 22.00 -0.7
HAU	80.47 317 eP	56 34.30 -0.2		S	04 35.05		0.6s 10.00nm	5.1mb
	0.9s 18.00nm	5.1mb	ROB	0.70 138 P	04 28.08 0.1	MRW	61.64 151 P	46 22.20 -1.1
Z	21s 0.10um	4.1msz		S	04 36.89	CAW	61.72 151 P	46 23.00 -0.9
LPG	80.50 315 eP	56 35.10 0.0				LTZ	61.78 154 P	46 23.70 -0.7
	0.7s 18.75nm	5.2mb				WDW	61.81 151 P	46 23.30 -1.1
LPL	80.52 315 eP	56 35.20 0.1						
	0.7s 22.05nm	5.3mb						

29d 23h

KOD	61.86	275	eP	46	26.60	0.9
MTW	61.96	151	P	46	24.40	-1.1
BLW	62.11	151	eP	46	25.80	-0.7
PMR	70.13	29	P	47	16.00	-1.3
FBA	71.40	25	P	47	24.00	-1.0
	1.0s	10.00nm		4.7mb		
MAIO	75.86	305	iPd	47	53.20	1.6
	0.8s	15.01nm		5.0mb		
		eS		57	36.00	
GMW	85.64	42	P	48	44.00	1.0
TAB	86.01	308	eP	48	46.00	0.8
YKA	86.13	27	eP	48	45.20	0.1
	1.0s	10.40nm		5.0mb		
LON	86.47	43	P	48	57.50	10.3X
KEV	86.68	341	iP	48	48.00	0.3
	1.0s	24.00nm		5.4mb		
WDC	87.41	49	ePd	48	52.50	0.7
SOD	87.87	339	iP	48	53.40	-0.1
ORV	88.43	50	eP	48	56.90	0.2
NEW	89.14	41	P	49	00.00	0.0
CMB	89.65	51	eP	49	03.20	0.6
SUF	90.16	335	iP	49	04.00	-0.4
	0.9s	25.90nm		5.6mb		
FRI	90.44	52	eP	49	07.00	0.8
NUR	91.82	334	iP	49	11.60	-0.5
	0.9s	22.00nm		5.6mb		
SES	92.18	37	eP	49	14.00	0.0
NB2	96.96	338	P	49	34.10	-1.6
	1.0s	2.90nm		4.8mb		
KSP	100.92	328	ePd	54	53.50	-0.1
ROCH	144.34	131	ePKP	55	40.70	-0.8
SAN	144.37	132	ePKP	55	40.50	-0.7
PCH	144.39	132	ePKP	55	40.70	-0.6
PEL	144.50	131	iPKPc	55	41.10	-0.4
	1.0s	50.00nm				
ZOBO	151.84	102	PKP	55	55.30	1.1
	1.1s	23.20nm				
		i		56	02.00	
LPB	151.84	103	PKP	56	00.00	6.0X
CNCB	151.93	103	PKP	56	03.10	8.8X
	S.D. = 0.9	on 77 of 81 obs.				

AUG 29, 1990 23h 59m 31.27 ± 0.43s
 12.233 N ± 8.4km 140.503 E ± 7.3km
 DEPTH = 33.0km (normol)
 4.9mb (9 obs.)

WEST CAROLINE ISLANDS (209)

GUMO	4.46	72	eP	00	38.30	-0.1
	0.8s	251.83nm				
PJG	4.46	72	eP	00	38.30	-0.1
GUA	4.49	73	eP	00	38.80	0.0
	0.8s	256.72nm				
		eS		01	38.50	
SSE	25.89	319	Pd	05	03.80	1.8
	1.0s	26.00nm		4.8mb		
WB5	32.48	191	eP	05	59.80	-1.3
WRA	32.54	191	Pc	05	59.10	-2.5
	0.8s	8.80nm		4.7mb		
OIS	32.60	182	eP	06	03.50	1.4
	1.0s	6.00nm		4.4mb		
ASPA	36.26	190	eP	06	33.70	0.2
	0.7s	8.00nm		4.7mb		
Z	23s	0.17um		3.7MszX		
		LR		20	43.50	
DZM	42.54	143	iPc	07	25.00	-0.8
BWA	47.00	171	eP	08	03.00	1.7
CAN	47.97	171	eP	08	11.00	2.0
GUN	53.21	296	P	08	49.60	0.2
	1.0s	60.00nm		5.5mb		
PKI	53.59	295	P	08	51.80	-0.3
KKN	53.73	295	P	08	52.80	-0.2
	0.9s	21.00nm		5.1mb		
DMN	53.86	295	P	08	54.00	0.0
GKN	54.31	296	P	08	57.00	-0.2
GBA	61.33	279	Pc	09	45.50	-1.0
	0.2s	8.50nm		5.5mb		
MAIO	75.67	305	iPd	11	17.00	1.5
YKA	86.00	27	eP	12	17.60	8.2X
	1.0s	2.10nm		4.3mb		
KEV	86.46	341	eP	12	03.00	-8.6X
SOD	87.65	339	eP	12	17.00	-0.4
SUF	89.94	335	iP	12	27.50	-0.8
	0.8s	6.80nm		5.0mb		
NUR	91.60	334	eP	12	35.00	-1.0
ZOBO	151.98	102	PKP	19	26.00	6.6X
LPB	151.98	102	PKP	19	28.00	8.8X

CNCB 152.07 103 PKP 19 27.00 7.5X
 S.D. = 1.2 on 21 of 26 obs.

% AUG 30, 1990 00h 46m 33.78 ± 0.72s
 26.368 S ± 7.5km 27.448 E ± 6.6km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 ML 2.3 (PRE).

BPI	0.56	70	eP	46	45.00	0.0
		S		46	52.00	
PRY	0.56	178	eP	46	46.00	1.0
		S		46	53.00	
KSR	0.70	315	eP	46	49.00	1.1
BFS	0.79	228	eP	46	48.00	-1.8
SLR	0.98	50	eP	46	51.40	-1.6
		S		47	03.80	
SWZ	2.06	246	iPd	47	09.50	-0.2
BFT	2.43	74	eP	47	16.00	1.0
		S		47	45.00	
KIM	3.35	224	iP	47	28.40	0.3
	S.D. = 1.3	on 8 of 8 obs.				

* AUG 30, 1990 01h 12m 44.49 ± 1.96s
 45.354 N ± 6.9km 6.558 E ± 15.7km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)

LPL	0.20	37	Pg	12	49.20	0.1
		Sg		12	52.30	
BNI	0.31	165	P	12	50.80	-0.3
		eSg		12	56.20	
LSD	0.43	76	P	12	53.10	-0.3
		S		12	59.36	
RRL	0.46	160	P	12	54.03	0.1
		S		13	01.31	
RSP	0.53	112	P	12	55.57	0.2
		S		13	03.67	
PZZ	0.93	155	P	13	02.54	0.1
		S		13	15.46	
	S.D. = 0.3	on 6 of 6 obs.				

* AUG 30, 1990 01h 55m 55.84 ± 1.95s
 12.010 N ± 7.1km 140.530 E ± 12.1km
 DEPTH = 40.7 ± 20.6 km
 4.7mb (4 obs.)

WEST CAROLINE ISLANDS (209)

GUMO	4.51	69	eP	57	03.50	-0.1
	0.8s	175.70nm				
PJG	4.51	69	eP	57	03.60	0.0
GUA	4.54	70	eP	57	03.70	-0.2
	0.8s	167.16nm				
		eS		58	12.20	
SSE	26.08	320	Pd	01	28.20	0.7
	1.0s	26.00nm		4.8mb		
WB5	32.26	191	eP	02	23.00	0.0
WRA	32.33	191	Pd	02	23.10	-0.5
	0.8s	6.60nm		4.6mb		
ASPA	36.04	190	eP	02	56.00	0.5
	0.6s	5.00nm		4.6mb		
DZM	42.35	143	iPc	03	49.50	1.5
STK	43.65	179	eP	03	57.10	-1.2
GUN	53.33	296	P	05	14.00	0.0
PKI	53.71	295	P	05	16.80	0.1
KKN	53.85	296	P	05	17.90	0.3
DMN	53.98	295	P	05	18.80	0.2
GKN	54.43	296	P	05	21.60	-0.2
KEV	86.68	341	eP	08	37.00	0.7
SOD	87.87	339	iP	08	41.60	-0.4
SUF	90.15	335	iP	08	52.10	-0.8
	0.8s	6.80nm		5.0mb		
NUR	91.81	334	eP	09	00.00	-0.6
ZOBO	151.91	102	PKP	15	46.00	3.1X
		i		15	50.20	
LPB	151.91	103	ePKP	15	53.00	10.3X
CNCB	151.99	103	PKP	15	51.10	8.1X
	S.D. = 0.7	on 18 of 21 obs.				
	AUG 30, 1990 02h 34m 26.64 ± 0.71s					
	45.923 N ± 6.5km 2.698 E ± 6.1km					
	DEPTH = 10.0km (geophysicist)					
	FRANCE (538)					
	ML 1.9 (LDG).					
PYM	0.28	128	Pg	34	33.22	0.7
		Sg		34	37.80	

MAF	0.31	343	Pg	34	33.70	0.6
		Sg		34	38.00	
AGO	0.33	67	Pg	34	33.85	0.4
		Sg		34	38.76	
TCF	0.50	317	Pg	34	37.60	0.8
		Sg		34	42.80	
BGF	0.64	9	Pg	34	38.60	-0.9
		Sg		34	47.20	
PLDF	0.65	86	Pg	34	39.07	-0.6
		Sg		34	48.72	
LBL	0.79	151	Pg	34	41.69	-0.3
		Sg		34	52.22	
LSF	0.88	292	Pg	34	42.80	-0.7
		Sg		34	53.90	
	S.D. = 0.8	on 8 of 8 obs.				

AUG 30, 1990 02h 35m 04.94 ± 0.53s
 43.123 N ± 4.6km 10.983 E ± 4.9km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)

PII	0.68	331	P	35	18.40	-0.1
		eSg		35	27.40	
MAO	0.72	170	Pc	35	19.40	0.3
		eSg		35	29.00	
CRE	0.87	54	Pc	35	21.80	0.1
		eSg		35	33.40	
PGD	0.92	35	Pc	35	22.70	0.0
		eSg		35	35.40	
BDI	0.98	344	Pc	35	23.70	0.1
		eSn		35	36.00	
SFI	1.02	38	P	35	24.10	-0.1
		eSn		35	38.30	
MME	1.09	349	P	35	25.80	0.2
		eSn		35	41.00	
RSM	1.34	53	P	35	30.60	1.0
MNS	1.45	120	P	35	30.30	-1.0
PGF	1.57	249	Pn	35	33.90	0.9
		Sn		35	56.20	
SBF	2.69	287	Pn	35	48.00	-1.0
		Sn		36	18.20	
FVI	3.70	20	P	36	02.10	-1.2
LPG	3.85	309	Pn	36	09.40	3.6X
LPL	3.88	310	Pn	36	09.20	3.1X
SOTA	4.10	2	iPnc	36	09.70	0.6
		iSn		36	59.60	
	S.D. = 0.8	on 13 of 15 obs.				

AUG 30, 1990 02h 41m 13.55 ± 0.41s
 0.044 S ± 8.0km 17.317 W ± 6.3km
 DEPTH = 10.0km (geophysicist)
 4.8mb (30 obs.) 3.9Msz (3 obs.)
 NORTH OF ASCENSION ISLAND (407)

LIC	13.76	63	P	44	29.00	-2.1
TIC	13.95	61	P	44	31.46	-2.2
KIC	14.07	63	P	44	33.48	-1.8
	0.4 s	35.50nm			5.5mb	
		S		46	59.00	
LKO	15.07	50	P	44	42.50	-5.8X
	0.5 s	110.50nm			5.6mb	
TIO	32.25	16	iP	47	45.00	0.4
		i		48	26.50	
		i		48	38.00	
BAO	34.02	241	e(P)	47	59.00	-1.2
IFR	35.30	18	iPd	48	13.00	2.0
BCAO	36.09	82	iPc	48	19.60	1.7
	0.9 s	42.00nm			5.3mb	
		i		48	33.20	
SIV	45.98	248	P	49	40.20	1.1
CAF	47.96	19	eP	49	54.60	0.2
	0.8 s	4.70nm			4.6mb	
PGF	48.56	26	eP	50	01.80	2.7X
	0.8 s	4.05nm			4.5mb	
SOI	48.80	35	P	49	58.00	-2.9X
MFF	48.84	16	eP	50	01.20	0.2
	0.8 s	6.70nm			4.7mb	
SBF	48.98	24	eP	50	03.80	1.5
	0.8 s	10.75nm			4.9mb	
LSF	48.99	17	eP	50	02.50	0.2
	0.8 s	9.40nm			4.9mb	
KRI	49.14	112	iPc	50	05.20	1.2
BUL	49.17	117	iPc	50	03.00	-1.3
	0.5 s	5.28nm			4.8mb	
MAF	49.28	18	eP	50	05.30	0.8
	0.8 s	6.70nm			4.7mb	
DOI	49.44	23	P	50	07.50	1.7

BNI	49.68	22 P	50 09.00	1.2	59.532 N ±26.7km	2.268 E ±63.9km	CHCH	0.32	328	iPc	16 03.50	0.3		
CKI	49.78	24 P	50 08.00	-0.4	DEPTH = 10.0km	(geophysicist)	PCH	0.58	355	iPd	16 04.80	0.0		
LPG	50.08	22 eP	50 12.10	1.0	NORTH SEA	(534)	TACH	0.68	323	iPc	16 05.40	-0.1		
	0.8s	8.05nm		4.7mb	MD 2.5 (BER).					iS	16 19.00			
LPL	50.09	22 eP	50 12.00	1.0	KMY	1.56 101	iPc	06 15.59	0.0	SAN	0.77 347	iPc	16 05.80	-0.4
	0.7s	5.50nm		4.6mb			eSg	06 32.84				iS	16 18.70	
SGO	50.12	32 P	50 27.00	16.0X	ASK	1.75 56	iP	06 18.57	0.1	LNK	0.84 287	iPc	16 07.20	0.4
MNS	50.12	29 P	50 11.00	-0.1			eSg	06 37.40		FCM	0.88 9	iPd	16 07.30	-0.3
SSF	50.32	18 eP	50 12.80	0.3	BER	1.76 60	iP	06 18.49	-0.1			iS	16 21.80	
	0.8s	5.35nm		4.6mb			eSg	06 21.77	0.2	PEL	1.08 349	iPc	16 08.90	-0.4
LBF	50.40	19 eP	50 13.30	0.1	SUE	1.97 38	eP	06 21.77	0.2			iS	16 23.80	
	0.9s	4.90nm		4.5mb	ODD1	2.24 78	iPc	06 25.64	0.0	LCCH	1.18 308	iPc	16 10.40	0.1
BDI	50.47	26 P	50 15.50	1.8			eSg	06 43.16				iS	16 26.40	
DUI	50.47	31 P	49 54.00	-19.7X	BLS2	2.39 94	iPc	06 25.64	0.0	ROCH	1.32 339	iPc	16 11.50	-0.6
LOR	50.62	19 eP	50 14.70	0.0			eSg	06 49.60				iS	16 29.00	
	0.8s	5.35nm		4.5mb	HYA	2.55 48	iP	06 27.93	0.1	JACH	1.52 355	iPd	16 14.20	-0.2
Z	20s	0.13um		3.9Msz			eSg	06 53.85				iS	16 33.40	
CRE	50.73	27 P	50 13.00	-2.8X	MOL	3.98 38	eP	06 29.83	0.0	IHA	1.54 319	iPd	16 14.50	0.0
PGD	50.82	27 P	50 16.00	-0.5			eSg	06 57.49				iS	16 34.00	
CCH	51.03	248 eP	50 24.00	5.3X			eS	06 50.12	-0.1	MDZ	1.87 46	eP	16 19.80	1.1
ARV	51.09	28 P	50 17.00	-1.4			eS	07 32.26				eS	16 48.80	
HAU	52.08	20 eP	50 25.80	-0.1			S.D. = 0.1	on 8 of 8 obs.		RTBS	2.67 19	eP	16 30.00	1.1
	0.9s	6.55nm		4.6mb			AUG 30, 1990 04h 23m 32.56 ± 0.94s			RTCV	2.83 35	ePc	16 31.10	-0.1
Z	20s	0.05um		3.5Msz			44.381 N ± 4.8km 6.382 E ± 7.7km			ZON	3.04 30	eP	16 33.00	-1.0
CIR	52.09	117 eP	50 27.80	1.5			DEPTH = 10.0km (geophysicist)					eS	17 08.00	
BSF	52.09	20 eP	50 25.80	-0.2	FRANCE		(538)			RTCB	3.04 28	iPd	16 34.50	0.4
	0.8s	5.35nm		4.5mb			ML 2.7 (GEN).			CFA	3.19 36	e(P)	16 35.90	0.0
ZOBO	52.62	250 P	50 30.00	-1.0								(S)	17 11.70	
Z	20s	0.18um		4.1Msz	PZZ	0.53 76	P	23 41.96	-1.4	RTLL	3.32 31	iPc	16 37.00	-0.7
		LR	08 14.00				S	23 46.06				eS	17 14.00	
CDF	52.75	20 eP	50 30.60	-0.4	RRL	0.61 28	P	23 45.14	0.1	CNCB	17.46 8	P	19 46.00	1.1
	0.8s	5.35nm		4.5mb			S	23 51.70		ZOBO	17.98 7	P	19 52.00	0.8
SQTA	53.25	24 iPc	50 33.60	-1.1	DOI	0.63 79	Pc	23 43.40	-1.9	SIV	20.00 27	P	20 10.80	-1.6
	0.7s	11.10nm		4.9mb			eSg	23 48.60				S.D. = 0.7	on 21 of 21 obs.	
		i	50 37.00		STV	0.69 101	P	23 45.45	-0.8			& AUG 30, 1990 05h 28m 04.65s		
FVI	53.41	26 P	50 35.00	-0.6			S	23 52.18				61.776 N	151.249 W	
VOY	53.47	27 eP	50 36.30	0.1	BNI	0.70 17	P	23 47.30	0.8			DEPTH = 75.8km		(2)
CEY	53.48	27 e(P)	50 36.50	0.2			eSg	23 54.70				SOUTHERN ALASKA		
VBY	53.69	28 e(P)	50 38.60	0.8	TOUF	0.72 120	Pg	23 47.29	0.4	SKT	0.24 327	iP	28 15.60	-0.7
ENN	54.34	18 eP	50 43.00	0.5	CALN	0.73 150	Pg	23 50.22	3.3X			eS	28 24.49	
	1.0s	16.00nm		5.0mb	MVIF	0.74 131	Pg	23 48.29	1.2	SUA	0.40 142	iP	28 17.31	-0.1
SKO	54.48	35 iP	50 43.50	-0.1	ENR	0.76 101	P	23 46.54	-1.0			eS	28 27.36	
WET	55.46	24 iPc	50 50.00	-0.7			S	23 53.84		NCG	0.57 230	iP	28 18.27	-0.7
	0.9s	21.00nm		5.2mb	CDR	0.83 212	ePgc	23 46.40	-2.3			iS	28 29.21	
WTS	55.69	18 eP	50 52.50	0.3			eSg	24 10.30		CGLM	0.59 218	iP	28 18.54	-0.6
	1.0s	15.00nm		5.0mb	AURF	0.84 126	Pg	23 49.91	1.0			eS	28 29.62	
KHC	55.73	24 eP	50 52.30	-0.4			Sg	23 59.97		PWA	0.66 100	iP	28 19.55	-0.2
MOX	56.18	22 eP	50 55.00	-0.8	AUTN	0.85 117	Pg	23 49.00	0.0			eS	28 31.38	
ZST	56.54	27 e(P)	50 56.50	-1.9	SBF	0.92 124	Pg	23 52.10	1.9	CRP	0.67 221	iP	28 19.44	-0.6
PRU	56.79	24 eP	51 02.50	2.2			Sg	24 03.50				iS	28 31.54	
SRO	56.82	28 eP	51 02.70	2.3	REVF	0.96 132	Pg	23 52.88	2.1	SPU	0.71 213	iP	28 19.58	-0.8
BRG	57.25	23 eP	51 03.00	-0.5	RSP	0.99 39	P	23 51.50	0.1			iS	28 32.16	
	1.0s	10.00nm		4.8mb			S	24 01.75		BGL	0.75 227	eP	28 20.23	-0.6
KSP	58.17	24 eP	51 09.00	-0.9	ROB	1.07 94	P	23 51.91	-0.9	CUT	0.78 36	iP	28 20.50	-0.6
SPC	58.70	28 eP	51 13.10	-0.8			S	24 02.47				eS	28 32.76	
MLR	59.22	34 ePc	51 17.00	-0.5	LPL	1.16 12	Pg	23 55.80	1.4	CKL	0.78 222	iP	28 20.41	-0.8
BBTK	60.42	43 eP	51 26.00	0.2			Sg	24 09.30		PMS	0.97 123	eP	28 22.64	-0.7
CBM	64.37	324 P	51 44.00	-7.9X	IMI	1.18 113	P	23 54.88	0.2	PLRM	1.03 99	iP	28 23.03	-1.0
NB2	64.73	15 P	51 53.30	-0.8			S	24 08.08				eS	28 38.09	
	0.8s	4.90nm		4.7mb	LSD	1.21 27	P	23 55.81	0.6	NKA	1.04 180	eP	28 25.67	1.5
HBVT	66.22	320 P	52 03.50	-0.4			S	24 09.10		GHO	1.11 89	eP	28 24.32	-0.8
WNY	66.75	319 P	52 06.50	-0.8	FIN	1.32 97	P	23 56.32	-0.7			iS	28 39.79	
RSNY	67.25	319 P	52 10.00	-0.5			S	24 10.25		RDT	1.33 205	iP	28 27.37	-0.7
	0.8s	5.34nm		4.8mb	CKI	1.36 88	P	23 56.60	-1.0			eS	28 45.83	
NUR	68.45	21 iP	52 17.10	-0.6	PCP	1.56 83	P	24 00.11	-0.3	SLKM	1.37 158	eP	28 27.86	-0.6
	0.6s	7.80nm		5.1mb			S	24 16.54		SML	1.39 87	eP	28 27.48	-1.3
SUF	70.50	20 iP	52 30.50	0.3	PGF	2.64 133	Pn	24 16.50	0.4	HUR	1.42 31	eP	28 28.04	-1.1
	0.5s	6.80nm		5.0mb			S.D. = 1.2	on 22 of 23 obs.				eS	28 46.56	
SOD	73.86	16 iP	52 50.20	0.1	? AUG 30, 1990 05h 05m 24.22 ± 6.06s					NNL	1.74 181	eP	28 33.92	0.5
KEV	75.62	15 eP	53 04.00	3.8X	29.049 N ±53.1km 84.374 E ±14.4km					SCM	1.86 87	eP	28 33.86	-1.3
FVM	76.75	309 P	53 06.00	-1.2	DEPTH = 33.0km (normol)					SEW	1.89 152	eP	28 36.25	0.7
POW	77.03	307 P	53 04.00	-4.7X						BRLK	2.03 175	eP	28 37.29	-0.1
OLY	77.15	306 P	53 07.50	-1.9	GKN	1.07 167	P	05 42.90	-0.1	SVW	2.21 254	eP	28 38.32	-1.5
UYO	79.39	305 iPd	53 21.40	-0.4								eS	29 04.43	
TUL	80.69	306 eP	53 28.30	-0.4	DMN	1.57 156	P	05 50.80	0.4	CNPM	2.26 180	eP	28 39.33	-1.2
	1.0s	5.70nm		4.5mb	PKI	1.73 148	P	05 52.60	-0.2	VZW	2.37 106	eP	28 39.87	-2.3
GOL	88.53	310 P	54 09.00	0.7	GUN	1.74 130	P	05 53.00	0.0	TOA	2.42 80	eP	28 42.10	-0.8
	0.7s	3.94nm		4.8mb	HYB	12.75 206	eP	08 26.00	0.0	VLZ	2.45 103	eP	28 40.61	-2.5
ALQ	89.32	305 eP	54 12.00	-0.1			S.D. = 0.3	on 6 of 6 obs.		PDB	2.46 217	iP	28 42.43	-0.9
	1.0s	2.50nm		4.4mb			* AUG 30, 1990 05h 15m 46.52 ± 1.68s			TTA	2.50 300	eP	28 42.36	-1.7
ANMO	89.32	305 P	54 13.00	0.9			34.205 S ±17.6km 70.447 W ± 8.1km			KLU	2.56 94	eP	28 42.46	-2.3
WRA	145.87	127 PKPd	00 55.30	0.1			DEPTH = 114.7 ± 7.4 km			MCNL	3.02 212	eP	28 50.13	-0.9
	0.7s	2.90nm			CHILE-ARGENTINA BORDER REGION		(127)			WRH	3.06 27	eP	28 49.45	-2.2
WB5	145.92	127 ePKP	00 56.50	1.2						CDD	3.09 204	eP	28 51.34	-0.9
		S.D. = 1.1	on 67 of 77 obs.											
? AUG 30, 1990 04h 05m 47.89 ± 8.10s														

30d 05h

DDM 3.19 48 eP 28 54.35 0.8
CCB 3.28 27 eP 28 52.08 -2.6
HDA 3.28 35 eP 28 52.77 -2.0
GLB 3.57 92 eP 28 56.39 -2.4
GLM 3.66 27 eP 28 57.67 -2.4
TGL 4.19 100 eP 29 06.36 -1.3

39 abs. associated

% AUG 30, 1990 05h 35m 23.14 ± 0.82s
37.816 N ± 8.4km 15.091 E ± 6.5km
DEPTH = 10.0km (geophysicist)

SICILY (398)

MNO 0.33 290 Pd 35 30.40 0.3
eSg 35 35.40
ATN 0.45 40 P 35 32.90 0.6
eSg 35 40.50
MEU 0.73 190 P 35 37.20 -0.3
eSg 35 47.50
SOI 0.80 71 P 35 39.40 0.7
eSn 35 52.40
GIB 0.86 282 P 35 40.00 0.2
eSg 35 51.60
TDS 2.08 28 P 35 57.00 -1.5

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

& AUG 30, 1990 05h 49m 37.20s
36.667 N 121.332 W

CENTRAL CALIFORNIA (39)
<BRK>. ML 2.6 (BRK).

SAO 0.13 317 iPc 49 39.70 -0.2
LLA 0.32 99 iPc 49 43.50 -0.1
PRS 0.34 185 iPd 49 43.80 -0.2
GCC 0.64 304 ePc 49 48.80 -1.3
PRI 0.75 134 ePd 49 51.50 -0.7
e 50 08.20
PCC 1.18 315 ePd 49 58.00 -1.8
eS 50 15.80
FRI 1.34 76 ePc 50 00.80 -1.7
BKS 1.41 329 eP 50 03.80 0.2
BRK 1.41 329 ePd 50 04.00 0.3
ZSP 1.47 330 eP 50 05.40 0.9
CMB 1.56 29 ePd 50 04.30 -1.5
iS 50 23.90

11 abs. associated

* AUG 30, 1990 05h 53m 05.93 ± 1.87s
51.128 N ± 22.3km 15.769 E ± 6.9km
DEPTH = 10.0km (geophysicist)

POLAND (548)
ML 3.7 (VKA), 3.5 (GRF).

KSP 0.44 130 iPd 53 13.50 -1.3
iS 53 21.70
BRG 1.18 258 iPg 53 27.80 -0.1
iSg 53 48.00
PRU 1.38 215 Pn 53 31.50 0.3
Pg 53 33.00
eSn 53 50.00
Sg 53 56.70
KHC 2.45 216 iPn 53 47.50 0.9
Pg 53 53.30
Sn 54 22.50
Sg 54 31.50
HOF 2.60 253 ePn 53 47.20 -1.6
MOX 2.67 261 iPg 53 56.00 6.2X
iSg 54 35.00
WET 2.72 224 iPnd 53 50.80 0.3
KRA 2.87 110 eP 53 53.60 1.1
iS 54 33.60
VKA 2.89 173 i(Pg) 54 00.00 7.2X
iSg 54 44.50
GRF 3.24 245 e(Pn) 53 58.60 0.7
ePg 54 10.30
e(Sn) 54 42.40
eSg 54 55.30
BHG 3.90 210 iPc 54 53.00 45.9X
SOTA 4.92 219 iP 55 19.40 57.6X
iSg 55 43.80
i 55 53.00
i 55 56.60
i 56 11.20

S.D. = 1.2 on 8 of 12 obs.

AUG 30, 1990 06h 28m 50.04 ± 0.32s
23.474 N ± 6.1km 143.012 E ± 5.8km
DEPTH = 33.0km (normal)

4.8mb (16 obs.)

VOLCANO ISLANDS REGION (213)

KAKJ 12.92 350 P 31 51.60 -2.4
eS 34 09.90
CHJJ 13.01 345 P 31 52.20 -2.9
S 34 13.50
MTMJ 13.82 342 eP 32 02.40 -3.5X
NIJJ 14.15 347 eP 32 06.30 -3.8X
OFUJ 15.60 356 P 32 27.90 -1.2
eS 35 13.40

SSE 20.81 296 Pc 33 32.00 0.9
0.6s 44.00nm 5.0mb
NJ2 22.98 297 Pc 33 54.00 1.2
MDJ 23.78 336 eP 34 01.00 0.6
SNY 24.45 323 eP 34 06.10 -0.9
CN2 24.90 329 eP 34 12.00 0.7
TIA 25.71 306 eP 34 18.50 -0.5
WHN 26.44 292 eP 34 26.00 0.2
XAN 31.56 297 P 35 11.60 -0.1
GYA 33.02 283 P 35 25.80 1.2
CD2 35.55 291 P 35 46.20 -0.1
GTA 39.73 384 P 36 22.80 1.4
0.6s 4.00nm 4.4mb

CHG 41.24 272 ePd 36 35.00 1.1
0.9s 12.60nm 4.6mb
WB5 43.91 192 eP 36 54.20 -1.3
e 38 40.90

WRA 43.97 192 Pd 36 55.00 -1.0
0.3s 3.10nm 4.6mb
ASPA 47.69 191 eP 37 24.90 -0.6
0.7s 6.00nm 4.7mb

WMO 49.35 308 P 37 40.00 1.7
GUN 51.29 288 P 37 53.60 0.0
PKI 51.75 287 P 37 57.20 0.1
KKN 51.83 288 P 37 58.00 0.4
0.8s 32.00nm 5.3mb

WARB 51.84 199 eP 37 57.00 -0.3
0.4s 4.00nm 4.7mb
DMN 52.01 287 P 37 59.20 0.2
GKN 52.36 288 P 38 01.80 0.3

0.9s 39.00nm 5.4mb
STK 55.06 181 eP 38 18.80 -2.1
1.8s 48.00nm 5.2mb

PMR 59.11 31 P 38 48.80 -0.6
0.7s 11.63nm 5.1mb
FBA 60.17 27 P 38 56.50 -0.2

0.6s 3.08nm 4.6mb
GBA 62.50 274 Pc 39 10.90 -2.2
0.5s 2.70nm 4.6mb

INK 66.01 24 eP 39 35.00 -0.1
YKA 74.97 28 eP 40 29.30 -0.1
0.5s 4.70nm 4.7mb

KEV 76.63 341 eP 40 33.00 -5.8X
SOD 78.03 339 iP 40 47.00 0.5
WDC 78.32 51 ePc 40 48.70 0.0

LBFM 78.51 50 P 40 50.50 0.5
MIN 79.07 51 ePc 40 53.10 0.1
ORV 79.44 52 e(P) 40 55.00 0.2

PRS 80.73 55 ePc 41 02.70 0.9
SUF 80.77 335 eP 41 01.00 -0.4
CMB 80.81 53 ePc 41 03.00 0.8

LLA 80.94 54 e(P) 41 03.60 0.7
FRI 81.71 53 ePc 41 07.60 0.8
SES 81.79 38 eP 41 08.00 1.0

KVN 82.06 51 P 41 08.00 -0.9
NUR 82.62 334 eP 41 30.00 18.9X
FFC 84.41 32 iPc 41 21.40 1.1

0.7s 13.00nm 5.2mb
NB2 87.24 339 P 41 33.00 -1.3
0.7s 1.10nm 4.2mb

ANMO 92.22 50 P 42 00.00 1.7
ALO 92.22 50 eP 41 58.00 -0.3
1.0s 2.50nm 4.6mb

ZOBO 149.90 82 PKP 48 35.00 0.1
LPB 150.01 82 ePKP 48 38.00 3.2X
CNCB 150.20 83 PKP 48 36.00 0.7

CCH 152.05 83 PKP 48 46.50 8.8X
S.D. = 1.1 on 49 of 55 obs.

AUG 30, 1990 06h 33m 14.79 ± 1.03s
26.394 N ± 5.2km 125.938 E ± 5.6km
DEPTH = 150.8 ± 9.1 km
4.8mb (33 obs.)

NORTHEAST OF TAIWAN (245)

SSE 6.27 319 Pd 34 45.40 -0.7
1.0s 74.00nm 4.9mb
TIA 12.34 325 eP 36 07.30 0.8

DL2 12.99 345 eP 36 16.00 1.2
1.2s 100.00nm 5.1mb
MAT 14.55 43 eP 36 36.00 1.4

1.0s 8.00nm 4.0mb
SNY 15.52 353 Pd 36 46.50 -0.1
BJI 15.86 332 eP 36 50.50 -0.3

TIY 16.05 318 P 36 55.00 1.6
1.0s 100.00nm 5.1mb
XAN 16.55 301 P 37 00.40 0.9

GYA 17.27 275 P 37 10.00 1.6
CN2 17.37 359 Pc 37 08.40 -1.0
1.0s 100.00nm 5.1mb

MDJ 18.42 8 eP 37 18.20 -2.9
HHC 18.70 324 P 37 23.70 -0.5
1.2s 100.00nm 5.0mb

BTO 19.37 321 eP 37 30.00 -1.2
CD2 19.97 288 eP 37 36.00 -1.3
LZH 21.18 303 iPd 37 50.00 0.5

1.5s 150.00nm 5.2mb
GTA 25.38 307 P 38 28.40 -1.4
1.0s 20.00nm 4.6mb

CHG 26.00 259 ePd 38 36.10 0.6
0.9s 12.60nm 4.5mb
WMO 35.42 309 P 39 57.40 -0.6

MTN 39.33 172 eP 40 29.70 -1.1
WB5 46.72 169 eP 41 29.50 -0.9
WRA 46.78 169 Pc 41 30.10 -0.8

0.7s 9.70nm 4.5mb
GBA 47.06 264 Pd 41 33.00 -0.2
1.1s 12.70nm 4.5mb

QIS 48.52 163 iPc 41 43.50 -0.8
0.7s 17.00nm 4.9mb
e 42 12.30

ASPA 50.36 171 eP 41 58.10 -0.3
1.0s 14.00nm 4.6mb
Z 17s 0.15um 4.1ms2X

LR 55 35.40
STK 59.84 165 iPc 43 05.00 -1.5
0.6s 10.00nm 4.9mb

BWA 64.13 159 eP 43 36.30 1.3
PMR 64.77 32 P 43 36.50 -2.3
0.7s 12.35nm 4.9mb

FBA 64.86 28 P 43 37.50 -1.9
0.6s 6.77nm 4.8mb
CAN 65.14 159 eP 43 42.00 0.5

KEV 68.53 338 eP 43 51.00 -11.4X
SOD 69.42 336 eP 44 07.00 -0.8
INK 69.55 23 eP 44 08.00 -0.6

0.9s 31.00nm 5.1mb
SUF 71.21 331 iP 44 18.20 -0.5
0.4s 2.70nm 4.4mb

NUR 72.70 329 eP 44 26.00 -1.5
VR1 77.53 315 ePc 44 55.00 -0.2
NB2 78.25 333 P 44 57.60 -1.4

0.9s 6.80nm 4.4mb
YKA 79.23 24 eP 45 03.70 -0.5
0.7s 17.10nm 4.9mb

KRA 79.71 321 ePd 45 06.60 -0.4
0.8s 28.00nm 5.0mb
e 45 14.90

KSP 81.33 323 iP 45 15.80 0.3
BRG 82.57 324 iP 45 21.80 -0.1
1.0s 12.00nm 4.6mb

PRU 82.73 323 eP 45 22.80 0.0
e 45 43.00
CLL 82.83 324 iPd 45 23.40 0.2

0.8s 18.00nm 4.9mb
e 46 13.00
MOX 83.93 324 eP 45 29.00 0.2

GMW 83.99 39 P 45 30.00 0.8
BMW 84.31 40 P 45 31.50 0.6
RMW 84.59 39 P 45 33.00 0.7

GRF 84.68 324 iPd 45 33.80 1.2
1.4s 51.00nm 5.2mb
VBY 84.75 319 e(P) 45 33.70 0.7

PNT 84.76 37 eP 45 34.00 1.0
0.8s 8.00nm 4.6mb
LON 84.98 40 P 45 34.00 -0.3

VOY 85.26 320 eP 45 35.20 -0.5
EDM 85.54 31 iPd 45 37.20 0.3
SOTA 86.12 322 iPd 45 39.70 -0.3

1.0s 15.20nm 4.8mb

OGA 86.42 321 iPc 45 42.10 0.5
 0.8s 16.00nm 4.9mb
 NEW 86.71 37 P 45 43.00 0.3
 0.9s 10.42nm 4.7mb
 FHC 86.90 46 ePc 45 45.50 1.7
 LBFM 87.93 44 P 45 49.00 0.0
 WDC 87.95 45 ePc 45 49.60 0.9
 e 45 56.60
 SES 88.46 32 ePd 45 51.30 0.2
 MIN 88.67 45 ePc 45 52.30 -0.1
 ORV 89.18 46 e(P) 45 55.00 0.4
 FFC 89.35 26 iPd 45 55.30 0.2
 0.6s 21.00nm 5.3mb
 FRB 89.44 6 ePc 45 54.60 -0.7
 LPL 89.62 322 eP 45 57.00 0.1
 0.6s 2.70nm 4.5mb
 LPG 89.62 322 eP 45 57.00 0.8
 0.6s 2.70nm 4.5mb
 PGF 90.14 319 eP 46 04.50 5.3X
 0.8s 21.50nm 5.2mb
 SBF 90.25 321 eP 46 00.80 1.2
 0.9s 26.20nm 5.3mb
 LRM 90.73 37 eP 46 02.80 0.8
 CMB 90.75 46 ePc 46 02.70 0.7
 KVN 91.62 44 P 46 06.50 0.3
 FRI 91.79 47 ePc 46 07.30 0.6
 KIC 122.17 297 PKP 51 54.10 0.3
 TIC 122.22 298 PKP 51 54.10 0.2
 LIC 122.48 297 PKP 51 54.60 0.2
 SIV 167.76 34 PKP 53 06.40 2.0
 S.D. = 1.0 on 73 of 75 obs.

AUG 30, 1990 06h 45m 01.29±2.11s
 5.995 S ±11.1km 79.204 W ±47.1km
 DEPTH = 33.0km (normal)
 NORTHERN PERU (111)

VC1 5.38 9 eP 46 21.60 -0.3
 GGP 5.81 6 Pn 46 27.00 -1.1
 GGP 5.81 6 P 46 28.40 0.3
 OUR 5.82 7 eP 46 28.80 0.7
 YANA 5.88 6 ePn 46 27.70 -1.2
 CAYA 6.16 11 eP 46 34.50 1.6
 COTA 6.35 8 eP 46 35.50 0.0
 PT10 6.43 160 eP 46 36.50 0.3
 eS 47 50.50
 SIV 20.36 121 P 49 37.60 -0.4
 S.D. = 1.0 on 9 of 9 obs.

AUG 30, 1990 06h 59m 54.78±0.28s
 44.435 N ±2.3km 7.295 E ±3.3km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.6 (GEN).

DOI 0.08 333 P 59 58.70 1.4
 eSg 00 01.00
 PZZ 0.15 297 P 59 59.40 0.9
 S 00 01.86
 STV 0.19 174 P 59 59.50 0.4
 S 00 02.17
 ENR 0.23 157 P 00 00.00 0.3
 S 00 03.11
 TOUF 0.42 185 Pg 00 03.28 -0.2
 ROB 0.44 109 P 00 04.22 0.5
 S 00 10.37
 AUTN 0.45 168 Pg 00 03.67 -0.3
 SAOF 0.49 157 Pg 00 04.18 -0.5
 Sg 00 10.19
 AURF 0.55 178 Pg 00 05.42 -0.5
 Sg 00 12.64
 MVIF 0.55 191 Pg 00 05.49 -0.4
 Sg 00 12.77
 SBF 0.58 170 Pg 00 07.40 0.8
 Sg 00 15.10
 RRL 0.61 323 P 00 07.09 -0.1
 S 00 14.77
 IMI 0.68 141 P 00 07.70 -0.6
 S 00 15.69
 FIN 0.69 109 P 00 08.52 0.0
 S 00 17.19
 CKI 0.71 91 P 00 09.10 0.4
 eSg 00 19.10
 RSP 0.72 358 P 00 08.32 -0.7
 S 00 16.96
 CALN 0.74 203 Pg 00 09.19 -0.3
 BNI 0.76 325 P 00 09.70 0.0

eSg 00 22.50
 PCP 0.90 83 P 00 12.32 0.2
 S 00 23.07
 LSD 1.03 355 P 00 14.88 0.5
 S 00 26.65
 LPG 1.13 340 Pg 00 14.80 -1.4
 Sg 00 31.80
 LPL 1.15 340 Pg 00 15.50 -1.0
 Sg 00 32.40
 CDR 1.34 236 ePg 00 19.90 0.5
 eSg 00 36.20
 e 00 36.50
 S.D. = 0.7 on 23 of 23 obs.

? AUG 30, 1990 07h 04m 33.32±4.40s
 31.884 S ±18.8km 72.102 W ±35.4km
 DEPTH = 10.0km (geophysicist)
 OFF COAST OF CENTRAL CHILE (134)

ROCH 1.42 140 iPd 04 59.10 -0.3
 eS 05 22.20
 JACH 1.51 122 iPd 05 01.00 0.5
 IS 05 19.00
 LCCH 1.65 164 iPd 05 06.50 4.1X
 IS 05 28.20
 PEL 1.73 137 iPd 05 04.00 0.3
 IS 05 30.00
 TACH 2.02 151 eP 05 07.20 -0.6
 e 05 34.00
 FCH 2.10 134 eP 05 09.20 -0.1
 e 05 39.00
 e 05 41.00
 LNV 2.15 164 eP 05 10.00 0.4
 IS 05 39.10
 RTBS 2.27 85 e(P) 05 11.00 -0.4
 RTCB 2.84 83 ePc 05 20.00 0.3
 MDZ 2.93 111 eP 05 26.20 5.4X
 eS 06 08.10
 ZON 2.94 84 eP 05 20.00 -0.9
 eS 06 00.00
 RTCV 3.03 91 e(P) 05 25.80 3.5X
 RTLL 3.15 81 ePc 05 24.40 0.5
 eS 06 05.60
 CFA 3.30 86 ePc 05 26.50 0.4
 S.D. = 0.6 on 11 of 14 obs.

* AUG 30, 1990 07h 19m 27.63±1.00s
 34.007 S ±10.8km 179.103 E ±9.1km
 DEPTH = 290.9 ±11.0 km
 4.2mb (3 obs.)
 SOUTH OF KERMADOC ISLANDS (179)

HBZ 3.64 190 P 20 31.60 1.8
 PUZ 4.12 189 P 20 36.90 1.8
 eS 21 30.60
 NOZ 4.68 190 P 20 43.20 1.7
 TAZ 4.71 206 P 20 47.30 5.4X
 WLZ 4.77 216 P 20 47.70 5.1X
 S 21 48.80
 WHH 5.30 203 P 20 51.90 2.9X
 HATZ 5.45 206 P 20 54.50 3.9X
 TTH 5.82 198 P 20 57.50 2.5X
 NGZ 5.88 208 P 21 00.10 4.2X
 PGZ 6.97 198 P 21 09.60 0.5
 MNG 7.20 203 P 21 10.80 -1.2
 S 22 34.20
 KIW 7.61 205 eP 21 15.90 -1.1
 CAW 7.78 203 eP 21 17.60 -1.5
 WDW 7.95 203 P 21 20.90 -0.2
 MOW 8.01 201 P 21 22.00 0.1
 MRW 8.01 205 P 21 20.80 -1.1
 WEL 8.04 204 P 21 22.50 0.3
 S 22 53.60
 TCW 8.15 207 P 21 22.20 -1.4
 THZ 9.16 210 P 21 36.20 -0.1
 KHZ 9.47 206 P 21 39.30 -0.7
 LTZ 10.27 209 P 21 49.10 -1.0
 S 23 40.50
 MQZ 10.91 206 P 21 56.40 -1.5
 MSZ 13.71 216 P 22 33.20 1.2
 DZM 16.30 314 iPc 23 01.50 -0.5
 BRS 23.54 279 iP 24 17.00 3.2X
 i 25 11.00
 OIS 37.34 281 eP 26 14.90 0.6
 1.0s 10.00nm 4.2mb
 eS 31 41.00
 ASPA 40.63 272 iPc 26 42.20 0.8

0.7s 11.00nm 4.3mb
 Z 22s 0.13um 3.7mszX
 iS 32 29.20
 eScS 36 08.50
 LR 37 12.30
 WRA 41.96 278 Pd 26 52.50 0.4
 0.6s 6.20nm 4.1mb
 WB5 41.97 278 eP 26 52.50 0.3
 eScP 32 02.00
 eS 32 48.50
 e 34 18.90
 SPA 56.17 180 iPc 28 42.40 2.8
 1.0s 84.50nm 5.1mb X
 i 29 34.30

PRS 89.32 44 eP 31 52.30 0.2
 PRI 89.60 45 eP 31 54.00 0.4
 BAR 89.69 49 eP 31 55.00 1.1
 MWC 89.85 47 eP 31 55.00 0.2
 ARN 89.94 43 P 31 55.00 0.0
 PLM 90.01 49 eP 31 55.00 -0.6
 RVR 90.12 48 eP 31 55.00 -0.8
 SBB 90.31 47 eP 31 56.00 -0.8
 ISA 90.57 46 eP 31 58.00 0.0
 FRI 90.74 45 eP 31 57.00 -0.8
 TPC 91.02 49 eP 32 01.00 1.0
 CMB 91.07 43 eP 31 59.00 -0.4
 GLA 91.10 50 eP 32 02.00 1.6
 CLC 91.20 47 eP 32 01.00 0.2
 GSC 91.34 47 eP 32 02.00 0.5
 ORV 91.50 42 eP 32 01.60 -0.4
 WDC 91.65 40 eP 32 02.20 -0.5
 MIN 91.99 41 eP 32 04.40 -0.1
 LBFM 92.54 40 P 32 06.50 -0.6
 KVN 93.07 44 P 32 08.50 -1.1
 RSNY 123.82 56 PKP 37 50.00 -2.1
 WNY 124.24 56 PKP 37 51.40 -1.5
 HBVT 124.78 56 PKP 37 52.60 -1.3
 BNH 126.09 56 PKP 37 55.50 -1.0
 CBM 128.74 54 PKP 37 59.50 -1.9
 KEV 141.03 345 ePKP 38 18.00 -5.7X
 SOD 142.98 343 ePKP 38 28.00 0.8
 BCAA 145.47 216 iPKPc 38 32.60 -0.5
 0.5s 16.00nm
 SUF 146.62 338 iPKP 38 33.60 0.2
 0.7s 38.70nm
 AKU 146.65 13 iPKPc 38 34.90 1.6
 0.9s 36.97nm
 NUR 148.72 336 iPKP 38 39.40 2.6
 0.7s 44.00nm
 NB2 151.84 348 PKP 38 46.40 4.8X
 0.8s 19.10nm
 LIC 152.09 171 PKP 38 44.04 0.8
 KIC 152.26 172 PKP 38 44.16 0.6
 TIC 152.51 171 PKP 38 44.62 0.7
 S.D. = 1.1 on 56 of 65 obs.

* AUG 30, 1990 07h 40m 14.63±1.07s
 36.976 N ±11.1km 29.399 E ±9.0km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

ELL 0.47 119 iPg 40 24.10 -0.1
 iSg 40 31.60
 CIN 1.22 301 ePn 40 37.00 -0.3
 iSg 40 56.00
 KHL 1.35 4 iPn 40 39.00 -0.5
 ALT 2.15 15 ePn 40 51.60 0.5
 IZM 2.21 311 iPn 40 52.30 0.4
 IZI 3.36 1 ePn 41 11.00 2.8X
 S.D. = 0.6 on 5 of 6 obs.

* AUG 30, 1990 09h 20m 37.21s
 61.394 N 150.935 W
 DEPTH = 58.9km
 SOUTHERN ALASKA (2)
 <AGS-P>.

SUA 0.12 53 eP 20 46.40 1.6
 iS 20 54.16
 CGLM 0.52 261 iP 20 49.11 -0.4
 iS 20 58.62
 PWA 0.57 63 iP 20 49.68 -0.2
 iS 21 00.80
 SPU 0.58 249 iP 20 49.55 -0.6
 iS 20 59.58
 NCG 0.59 271 iP 20 49.87 -0.4
 eS 20 59.94

30d 09h

CRP	0.60	258	eP	20 50.06	-0.4
			iS	21 00.37	
SKT	0.65	335	eP	20 50.25	-0.7
			eS	21 00.82	
NKA	0.67	193	iP	20 52.51	1.4
PMS	0.68	102	iP	20 51.01	-0.3
			iS	21 02.97	
CKL	0.71	254	iP	20 51.08	-0.6
BGL	0.71	260	eP	20 51.26	-0.5
			eS	21 03.04	
PLRM	0.89	76	eP	20 53.02	-0.8
			eS	21 05.97	
SLKM	0.96	158	eP	20 54.03	-0.8
			iS	21 07.63	
GHO	1.03	68	eP	20 55.21	-0.7
			iS	21 09.87	
CUT	1.06	17	eP	20 55.24	-0.9
			iS	21 10.67	
RDT	1.09	222	iP	20 55.92	-0.7
			iS	21 11.07	
SML	1.31	70	iP	20 58.51	-1.1
			eS	21 15.16	
NNL	1.37	188	eP	21 00.96	0.6
SEW	1.49	150	eP	21 02.02	0.0
BRK	1.64	179	eP	21 03.54	-0.6
SCM	1.78	74	eP	21 05.28	-0.9
CNPM	1.88	185	eP	21 07.04	-0.5
VZW	2.15	97	eP	21 08.98	-2.3
VLZ	2.24	95	eP	21 10.20	-2.3
SVW	2.28	265	iP	21 11.43	-1.8
TOA	2.38	70	eP	21 13.54	-1.0
KLU	2.41	85	iP	21 12.68	-2.3

27 obs. associated

* AUG 30, 1990 09h 52m 16.61s
60.097 N 153.080 W
DEPTH = 130.7km
SOUTHERN ALASKA (2)
<AGS-P>

RDT	0.58	35	iP	52 35.73	-0.9
			eS	52 51.40	
PDB	0.64	242	iP	52 35.91	-1.0
			eS	52 50.91	
AUE	0.76	191	eP	52 36.77	-0.9
AUH	0.76	194	iP	52 37.10	-0.8
			eS	52 52.03	
AUI	0.79	193	iP	52 37.02	-0.9
			eS	52 52.42	
HOM	0.85	121	iP	52 38.07	-0.4
			iS	52 54.62	
NNL	0.90	93	iP	52 38.94	0.0
XLV	0.94	133	iP	52 38.28	-1.0
			iS	52 55.43	
CNPM	1.09	121	iP	52 39.98	-0.8
			iS	52 57.67	
MCNL	1.12	215	iP	52 39.75	-1.2
			eS	52 57.75	
NKA	1.12	54	iP	52 41.84	0.9
BRK	1.15	106	iP	52 40.62	-0.8
			eS	52 58.65	
CKL	1.16	18	iP	52 40.93	-0.7
SPU	1.20	24	eP	52 41.13	-0.8
			iS	53 00.13	
CDD	1.21	194	iP	52 40.54	-1.4
BGL	1.22	16	eP	52 41.74	-0.4
CRP	1.26	21	eP	52 42.08	-0.6
			iS	53 02.03	
CGLM	1.32	23	iP	52 42.48	-0.8
			eS	53 02.63	
NCG	1.39	19	eP	52 43.29	-0.7
			eS	53 04.61	
SLKM	1.48	73	eP	52 43.44	-1.5
			iS	53 04.49	
SVW	1.61	310	iPd	52 45.00	-1.5
SUA	1.79	39	iP	52 47.57	-1.0
			iS	53 11.41	
SEW	1.82	88	eP	52 47.07	-1.7
SKT	2.03	21	iP	52 50.19	-1.3
PMS	2.08	55	eP	52 50.35	-1.7
PWA	2.21	44	eP	52 51.74	-1.9
PLRM	2.45	50	eP	52 53.87	-2.8
PMR	2.45	50	ePd	52 53.90	-2.7
GHO	2.63	49	eP	52 56.60	-2.6
CUT	2.68	29	eP	52 58.22	-1.5
			iS	53 30.03	
SML	2.88	51	eP	52 59.72	-2.6

TTA	3.17	335	iPd	53 04.20	-2.0
SCM	3.30	56	eP	53 06.00	-1.9
HUR	3.33	28	eP	53 06.92	-1.3
VZW	3.36	71	eP	53 05.54	-3.2
VLZ	3.48	70	eP	53 07.21	-3.0
KLU	3.78	65	eP	53 11.43	-2.8
TOA	3.91	56	eP	53 15.20	-0.8
MCK	4.14	26	eP	53 17.12	-2.0
GLB	4.74	69	eP	53 24.06	-3.2
DDM	5.03	40	eP	53 30.04	-1.1
TGL	5.12	78	eP	53 30.26	-2.1
CCB	5.18	26	iP	53 30.23	-2.9
HDA	5.18	31	eP	53 30.38	-2.8
BALM	5.38	75	iP	53 34.01	-1.9
FBA	5.41	25	iPd	53 33.30	-2.8
GLM	5.57	26	eP	53 35.47	-2.9

47 obs. associated

* AUG 30, 1990 10h 06m 34.29±0.42s
16.552 S ±13.6km 173.781 W ±18.3km
DEPTH = 33.0km (normal)
4.7mb (5 obs.)

TONGA ISLANDS (173)

DZM	19.45	250	iPd	11 02.00	0.7
PUZ	22.56	197	P	11 33.70	0.8
PGZ	25.48	198	P	12 01.00	0.7
MNG	25.72	199	P	12 01.40	-2.0
WB5	49.21	258	eP	15 15.00	-6.8X
ASPA	49.42	253	eP	15 16.00	-6.5X
	0.7s	10.00nm		5.0mb	
BCH	72.38	44	P	18 00.30	1.0
PLM	73.55	47	P	18 06.00	0.5
FR1	73.68	42	eP	18 07.50	0.8
CMB	73.87	41	eP	18 08.30	0.5
WDC	74.11	38	eP	18 09.50	0.4
MIN	74.52	39	eP	18 12.00	0.3
LBFM	74.97	38	P	18 14.50	0.1
KVN	75.91	42	P	18 19.00	0.0
MSU	79.50	45	P	18 40.00	0.3
ALO	81.82	50	eP	18 51.90	0.0
	1.0s	5.00nm		4.5mb	
ANMO	81.82	50	P	18 51.90	0.0
	1.0s	5.63nm		4.5mb	
LRM	83.14	38	eP	18 58.30	-0.3
BW06	83.37	42	P	18 58.40	-1.4
FBA	83.59	11	eP	18 58.40	-1.7
	0.8s	10.40nm		5.0mb	
GOL	84.71	46	P	19 06.00	-0.7
	0.6s	1.54nm		4.4mb	

S.D. = 0.9 on 19 of 21 obs.

* AUG 30, 1990 11h 14m 18.66±0.94s
17.066 N ±13.1km 95.166 W ±8.8km
DEPTH = 113.7 ±11.2 km
3.6mb (2 obs.)

OAXACA, MEXICO (60)

PSM	0.38	162	iP	14 34.47	-1.1
			iS	14 45.88	
EVV	1.39	353	iP	14 45.55	0.8
			iS	15 04.00	
OXX	1.49	271	iP	14 47.34	1.2
			iS	15 08.95	
SCX	2.45	97	iP	14 58.00	0.7
			iS	15 24.50	
LVVM	2.92	336	iP	15 02.97	-1.5
			(S)	15 35.69	
TPX	3.52	127	(P)	15 40.00	27.4X
IT	3.57	304	(P)	15 14.10	0.7
PPM	3.85	302	iP	15 20.41	3.0X
ACX	4.50	268	(P)	15 25.00	-0.8
IIJ	5.08	302	iP	15 38.43	4.1X
UYO	17.04	2	iPc	18 11.00	0.5
SIO	18.63	357	eP	18 29.50	-0.7
TUL	18.78	358	eP	18 30.90	-0.8
	1.1s	6.50nm		3.9mb	
ALO	20.46	333	eP	18 50.50	1.1
	0.8s	1.49nm		3.4mb	

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

* AUG 30, 1990 11h 34m 45.62±1.11s
43.961 N ±7.6km 13.170 E ±10.1km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ARV 0.49 200 P 34 55.00 -0.6

			eSg	35 03.40	
RSM	0.52	267	P	34 55.00	-0.3
			eSg	35 03.90	
SFI	0.95	268	P	35 04.20	0.5
			eSg	35 18.30	
MNS	1.62	193	P	35 14.90	0.6
			eSg	35 36.70	
TRI	1.80	13	eP	35 16.70	-0.2
			i	35 41.10	
VOY	2.13	14	e(Pn)	35 18.30	-3.5X
			e(Sn)	35 54.20	

S.D. = 0.7 on 5 of 6 obs.

AUG 30, 1990 12h 19m 25.53±1.02s
40.277 N ±5.4km 77.138 E ±3.3km
DEPTH = 54.3 ±9.9 km
4.9mb (46 obs.) 4.5Msz (5 obs.)
KIRGHIZ-XINJIANG BORDER REGION (320)

KSH	1.21	228	Pg	19 47.00	0.4
			Sg	20 05.00	
WMO	8.62	62	P	21 28.00	-2.3
	Z	10s	3.50um		
			S	23 06.00	
NDI	11.57	180	iPd	22 05.80	-4.6X
	0.7s	219.18nm		6.3mb	X
			iS	24 12.60	
GKN	13.72	151	P	22 25.00	-14.1X
KKN	14.16	149	P	22 30.80	-14.1X
DMN	14.25	150	P	22 32.50	-13.7X
GUN	14.29	147	P	22 33.40	-13.4X
PKI	14.40	149	P	22 34.00	-14.2X
MAIO	14.41	260	iPc	22 42.00	-6.1X
			eS	25 18.00	
LSA	15.58	128	P	23 04.00	0.5X
GTA	17.43	86	iPc	23 22.60	-3.9X
	1.0s	30.00nm		4.4mb	
	Z	16s	1.17um		4.1Msz
	E	10s	0.91um		
LZH	21.37	93	P	24 10.00	-0.5
	2.0s	50.00nm		4.5mb	
	Z	20s	2.10um		4.5Msz
	E	12s	0.80um		
POO	21.85	188	iPd	24 15.00	-0.2
			eS	28 42.00	
HYB	22.81	177	ePd	24 24.00	-0.7
	1.0s	100.00nm		5.2mb	
CD2	23.51	105	P	24 32.50	1.2
BT0	24.95	78	eP	24 47.00	1.7
	N	15s	1.10um		
	E	15s	0.80um		
XAN	26.00	94	P	24 55.20	0.2
HMC	26.06	77	P	24 56.60	1.0
KMI	26.19	117	Pc	24 59.00	1.9
	1.0s	100.00nm		5.3mb	
TIY	27.44	84	eP	25 08.50	0.3
	N	14s	3.40um		
GYA	28.10	110	P	25 14.40	0.1
CHG	28.45	132	ePc	25 21.00	3.7X
	0.9s	9.45nm		4.4mb	
BBTK	33.70	284	eP	26 11.00	7.4X
NNT	34.00	138	eP	26 06.70	0.5
SSE	36.62	90	P	26 29.50	1.2
MLR	37.35	295	eP	26 36.00	1.6
SUF	37.49	324	iP	26 36.10	0.8
	0.5s	13.20nm		5.1mb	
NUR	37.80	320	iP	26 38.00	0.7
	0.8s	19.10nm		5.1mb	
	Z	16s	1.70um		4.9MszX
			i	26 44.60	
			LR	42 28.00	
CMP	38.02	295	ePc	26 41.00	1.1
SOD	38.55	331	iP	26 44.00	0.7
			i	26 50.30	
KEV	39.25	335	eP	26 51.00	1.1
			i	26 56.80	
SPC	40.52	302	eP	27 06.50	5.6X
			i	28 36.20	
KRA	40.58	304	iPd	27 01.70	0.6
	0.5s	32.00nm		5.4mb	
	Z	16s	1.20um		4.8MszX
	E	16s	1.50um		
			e	27 06.00	
VAY	40.74	290	eP	27 03.40	0.9
UPP	41.25	319	iP	27 06.30	-0.1
			i	27 12.80	

PRU	44.02	304	Pc	27	30.00	0.9		GRR	54.12	306	eP	28	46.20	-0.7	SUA	0.75	167	eP	42	58.90	-0.5
Z	14s		1.50um			5.1MsZ			0.6s		9.00nm			5.0mb				iS	43	11.82	
E	14s		1.20um					LPO	54.28	302	eP	28	48.10	-0.1	PWA	0.79	133	iP	42	59.14	-0.5
			e	27	39.80				0.9s		9.85nm			4.8mb				iS	43	12.28	
BRG	44.21	306	iPc	27	31.10	0.4		LPF	54.37	306	eP	28	47.70	-1.1	NCG	0.94	213	eP	43	00.78	-0.9
	0.8s		14.00nm			4.8mb			0.6s		7.20nm			4.9mb				eP	43	01.42	-0.9
			i	27	36.50			MFF	54.37	304	eP	28	47.80	-1.0				eS	43	14.91	
			i	29	28.00				0.6s		3.60nm			4.6mb				iP	43	01.74	-1.0
NB2	44.40	321	P	27	32.10	-0.1		LFF	54.47	302	eP	28	49.70	0.1	HUR	1.03	40	iP	43	16.24	
	0.7s		13.90nm			4.8mb			0.8s		14.80nm			5.1mb				iS	43	02.56	-0.7
VBY	44.65	298	eP	27	35.50	1.2		MBC	63.28	4	ePd	29	50.20	0.0				eS	43	17.93	
CLL	44.70	307	iPc	27	34.50	-0.1			0.5s		30.00nm			5.6mb				eP	43	03.17	-0.5
	0.8s		16.00nm			4.9mb		BCAO	63.46	252	iPc	29	56.30	4.1X				iS	43	20.31	
KHC	44.82	303	P	27	36.50	0.8			0.6s		5.00nm			4.8mb				eP	43	02.88	-0.7
			e	29	23.20			INK	69.32	12	eP	30	28.00	-0.6	PLRM	1.10	122	eP	43	20.06	
LJU	44.99	299	eP	27	37.50	0.5					pP	30	40.00	41kmX				iS	43	03.04	-0.8
CEY	45.15	299	eP	27	38.80	0.5		FBA	69.43	19	eP	30	28.60	-0.8	SPU	1.12	205	eP	43	18.49	
VOY	45.42	299	eP	27	40.50	0.0		PMR	71.78	21	eP	30	43.50	-0.1				iS	43	03.65	-0.3
TRI	45.60	299	iPc	27	42.00	0.2			0.6s		3.90nm			4.5mb				eP	43	03.81	-0.7
MOX	45.70	306	eP	27	43.50	0.9		KRI	71.97	228	iPd	30	45.20	-0.3				iS	43	20.43	
			e	29	41.00			TOA	72.15	20	eP	30	46.90	0.9	PMS	1.20	142	eP	43	04.22	-0.6
GRF	46.18	305	ePc	27	48.00	1.6		BUL	75.19	227	iPd	31	02.20	-2.0				iS	43	21.14	
Z	17s		1.50um			5.0MsZ			0.8s		7.46nm			4.7mb				eP	43	06.16	-0.7
MAT	47.17	74	(P)	27	52.00	-2.4		YKA	77.14	6	eP	31	13.90	-0.5	KTH	1.37	3	iP	43	06.20	-0.9
	1.0s		10.00nm			4.7mb			0.9s		14.80nm			5.0mb				iS	43	23.94	
OSS	47.71	301	ePd	27	58.40	-0.3		KIC	79.73	270	P	31	31.10	1.7	NKA	1.46	183	iP	43	09.70	1.5
SAX	48.06	302	ePd	28	01.00	-0.5		WB5	80.09	127	eP	31	30.20	-0.9	SLKM	1.74	166	eP	43	11.44	-0.7
VDL	48.21	301	ePd	28	02.20	-0.4		WRA	80.12	127	Pd	31	30.70	-0.6	RDT	1.75	202	eP	43	11.36	-0.9
LLS	48.40	302	ePd	28	03.70	-0.4			0.9s		2.90nm			4.2mb				eP	43	12.65	-0.4
TMA	48.73	301	ePd	28	05.50	-1.1		ASPA	82.68	129	eP	31	43.80	-0.8	MCK	1.83	31	eP	43	12.39	-0.9
CDF	49.03	304	eP	28	08.80	0.1			1.5s		12.00nm			4.7mb				eP	43	18.76	0.9
	0.9s		9.85nm			4.8mb		FFC	85.37	359	eP	31	58.00	0.3	SEW	2.24	159	eP	43	20.09	1.2
MMK	49.34	301	ePd	28	12.10	0.7			0.7s		9.00nm			5.0mb				eP	43	19.06	-0.9
BSF	49.52	303	iPc	28	12.50	0.0		PNT	89.57	11	eP	32	20.00	1.8	BRLK	2.44	178	eP	43	21.51	-0.2
	0.8s		21.50nm			5.2mb			0.8s		10.00nm			5.2mb				eP	43	20.97	-0.8
DIX	49.69	301	ePd	28	14.20	0.1			S.D. = 0.9 on 94 of 107 obs.									eP	43	17.51	-5.0
HAU	49.74	304	eP	28	14.10	-0.1												eP	43	21.61	-1.7
Z	20s		0.50um			4.5MsZ												eP	43	22.74	-1.9
ROB	50.01	299	P	28	17.28	1.0												eP	43	25.07	0.0
LSD	50.08	300	P	28	16.90	-0.1												eP	43	26.24	-1.2
IMI	50.14	298	P	28	17.21	-0.1												eP	43	25.55	-2.1
LPG	50.33	301	eP	28	19.20	0.2												eP	43	26.45	-1.6
	0.8s		9.40nm			4.9mb												eP	43	28.70	-2.0
SAOF	50.33	299	P	28	18.84	0.1		ANT	2.73	223	eP	36	51.00	-0.2	GLM	3.25	29	eP	43	30.99	-2.1
LPL	50.33	301	eP	28	19.30	0.4					iS	37	22.00			35 obs. associated					
	0.7s		14.35nm			5.1mb		CCH	4.80	27	P	37	21.90	3.3X		& AUG 30, 1990 14h 08m 44.71s					
ENR	50.34	299	P	28	18.00	-0.8		CNCB	4.89	5	P	37	20.20	0.1		61.317 N 150.097 W					
STV	50.40	299	P	28	17.82	-1.4					i	37	43.00			DEPTH = 53.7km					
AUTN	50.42	299	P	28	19.79	0.2		LPB	5.16	3	eP	37	27.00	3.5X		SOUTHERN ALASKA (2)					
PZZ	50.45	299	P	28	18.54	-1.2					i	37	47.00			<AGS-P>.					
RRL	50.51	300	P	28	19.87	-0.4		ZOBO	5.42	3	P	37	26.50	-0.6							
AURF	50.52	298	P	28	20.40	0.2		SIV	8.96	52	P	38	09.60	-4.5X							
TOUF	50.53	299	P	28	21.00	0.6		PT08	12.44	320	eP	39	00.70	0.6	SUA	0.16	27	iP	08	53.64	0.1
LOR	51.58	304	eP	28	27.10	-1.0					e(S)	41	05.60					eS	09	01.35	
	0.6s		4.50nm			4.7mb		PPD	15.86	94	eP	39	44.40	1.5	CGLM	0.54	269	eP	08	56.32	-0.5
Z	20s		0.55um			4.6MsZ					e	39	46.20		SPU	0.58	257	iP	08	56.61	-0.6
LBF	51.60	303	eP	28	27.50	-0.9		VAO	19.86	98	(P)	40	27.00	-1.1				eS	09	06.53	
	0.6s		5.40nm			4.8mb		BAO	20.24	76	eP	40	31.50	-0.6	PWA	0.59	55	iP	08	57.11	-0.2
SMF	51.81	303	iPc	28	29.20	-0.7		LIC	67.98	73	P	46	51.20	-0.6	NKA	0.60	196	iP	08	58.88	1.4
	0.8s		12.10nm			5.0mb		KIC	68.30	73	Pc	46	54.60	0.9	CRP	0.61	266	iP	08	57.35	-0.4
SSF	51.88	304	eP	28	29.70	-0.7					0.6s		11.00nm	4.9mb	NCG	0.61	279	iP	08	57.24	-0.5
	0.6s		4.05nm			4.6mb			S.D. = 1.1 on 9 of 12 obs.									eS	09	07.49	
AVF	52.07	303	iPc	28	31.20	-0.6															
	0.6s		19.40nm			5.3mb		? AUG 30, 1990 12h 40m 38.92± 4.47s							PMS	0.65	96	iP	08	57.85	-0.3
BGF	52.48	303	eP	28	34.30	-0.6			39.526 N ±36.1km 28.497 E ± 9.2km						CKL	0.71	261	iP	08	58.31	-0.6
	1.0s		12.00nm			4.9mb		DEPTH = 10.0km (geophysicist)						BGL	0.72	266	iP	08	58.55	-0.6	
DAG	52.52	343	ePc	28	34.00	-0.8		TURKEY (366)						SKT	0.73	336	iP	08	58.42	-0.7	
	0.6s		25.33nm			5.4mb												eS	09	09.71	
MAF																					

30d 14h

VZW 2.12 95 iP 09 16.08 -2.3
 VLZ 2.22 93 iP 09 17.37 -2.3
 PDB 2.24 228 iP 09 18.54 -1.4
 KTH 2.24 360 eP 09 19.06 -1.1
 SVW 2.30 267 iPc 09 18.90 -2.0
 TOA 2.39 69 iPc 09 21.00 -1.2
 KLU 2.40 84 iP 09 19.90 -2.5
 TTA 2.90 306 iPc 09 27.30 -2.2
 GLB 3.41 85 eP 09 33.60 -3.2
 WRH 3.42 21 eP 09 35.43 -1.3
 HDA 3.59 29 eP 09 38.67 -0.5
 CCB 3.63 22 eP 09 38.11 -1.6
 FBA 3.86 20 iPc 09 42.20 -0.8
 IMA 4.93 347 ePd 09 53.30 -4.9
 39 obs. associated

* AUG 30, 1990 14h 27m 27.60±0.99s
 15.456 N ± 9.8km 147.235 E ± 16.3km
 DEPTH = 33.0km (normal)
 4.9mb (3 obs.)

MARIANA ISLANDS REGION (215)

GUA 2.95 230 eP 28 13.20 0.0
 eS 28 47.50
 GUMO 2.95 231 eP 28 13.40 0.2
 PJG 2.95 231 eP 28 13.30 0.1
 WBS 37.32 200 eP 34 43.00 4.2X
 WRA 37.39 200 Pd 34 39.40 0.0
 1.0s 2.00nm 3.9mb
 LZH 43.70 306 Pc 35 32.90 1.3
 0.7s 19.00nm 5.0mb
 GUN 57.83 293 P 37 19.10 0.0
 PKI 58.26 293 P 37 21.60 -0.4
 KKN 58.37 293 P 37 22.20 -0.4
 DMN 58.52 293 P 37 23.60 -0.2
 GKN 58.93 294 P 37 25.80 -0.7
 0.8s 19.00nm 5.3mb
 KIC 144.78 306 PKP 47 03.20 -0.5
 LIC 145.08 306 PKP 47 05.00 0.7
 S.D. = 0.6 on 12 of 13 obs.

AUG 30, 1990 14h 47m 07.37±0.63s
 36.239 N ± 7.1km 27.137 E ± 6.2km
 DEPTH = 10.0km (geophysicist)
 DODECANESE ISLANDS (369)
 MD 3.9 (ATH).

KAP 0.69 177 ePg 47 21.10 0.1
 SMG 1.49 351 ePb 47 32.90 -1.2
 APE 1.53 303 ePb 47 34.80 -0.1
 NPS 1.58 232 ePb 47 36.70 1.3
 KSL 1.98 93 ePb 47 40.00 -1.3
 IZM 2.16 3 iPn 47 45.30 1.4
 ELL 2.29 76 ePn 47 45.60 -0.3
 VAM 2.53 252 ePg 47 55.50 6.4X
 KHL 2.82 42 ePn 47 55.00 1.6
 PRK 3.08 347 ePg 48 03.40 6.5X
 VLI 3.42 279 ePn 48 00.30 -1.5
 ALT 3.67 39 ePn 48 05.00 -0.5
 ITM 4.29 284 ePn 48 14.10 -0.1
 S.D. = 1.2 on 11 of 13 obs.

AUG 30, 1990 15h 54m 29.81±0.17s
 15.968 N ± 4.2km 47.920 W ± 2.8km
 DEPTH = 10.0km (geophysicist)
 5.5mb (67 obs.) 5.3msz (20 obs.)
 NORTH ATLANTIC RIDGE (403)

Ms 5.2 (BRK).
 CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
 L.P.B.: 135, 28C
 Centroid Location:
 Origin Time 15:54:38.8 0.2
 Lat 15.99N 0.02 Lon 47.85W 0.02
 Dep 15.0 FIX Half-duration 3.2
 Moment Tensor: Scale 10¹⁷ Nm
 Mrr=-4.41 0.09 Mlt= 4.85 0.12
 Mff=-0.44 0.14 Mrl= 0.00 0.00
 Mrf= 0.00 0.00 Mlf= 1.03 0.08

Principal Axes:
 T Val= 5.04 Plg= 0 Azm=169
 N -0.63 0 79
 P -4.41 90 180
 Best Double Couple: Mo=4.7*10¹⁷
 NP1: Strike=259 Dip=45 Slip= -90
 NP2: 79 45 -90

SLB 12.86 262 eP 57 33.35 -2.2
 eS 59 44.65
 MGG 12.89 272 eP 57 31.55 -4.3X
 BBL 13.06 270 eP 57 33.60 -4.6X
 SVB 13.18 260 eP 57 37.67 -2.1
 PAG 13.23 272 eP 57 36.29 -4.2X
 BPA 13.41 277 eP 57 39.45 -3.3X
 MGH 13.74 275 eP 57 43.10 -4.1X
 NEV 14.10 277 eP 57 48.80 -3.0X
 TRN 14.14 250 eP 57 51.56 -0.9
 TCE 14.44 250 eP 57 56.28 -0.1
 PORP 18.02 279 P 58 41.50 -0.6
 MGP 18.45 279 P 58 49.00 1.7
 LLAV 19.18 256 eP 58 58.00 1.6
 eS 04 17.00

CAR 19.28 256 iPc 58 57.00 -0.7
 iS 02 36.00
 OLLA 19.32 254 eP 58 58.00 -0.3
 MORO 20.47 258 eP 59 11.00 0.4
 TOV 22.18 257 eP 59 29.70 1.8
 SDV 23.26 255 eP 59 40.00 1.3
 CAI 24.77 154 iPd 59 53.20 0.1
 BMG 26.16 253 iPc 00 07.00 0.6
 BOG 28.04 249 eP 00 28.00 4.1X
 iS 05 13.00

BAO 31.40 180 eP 00 53.50 0.0
 UPA 31.61 261 eP 00 56.50 1.2
 PSO 32.49 246 eP 01 03.00 -0.5
 MIM 34.17 333 P 01 16.00 -1.2
 SIV 34.31 203 iPd 01 18.60 -0.1
 BNH 34.68 330 P 01 21.00 -0.7
 CBM 35.14 336 P 01 24.80 -0.7
 HBVT 35.41 328 P 01 26.80 -1.1
 RSNY 36.29 327 P 01 32.50 -2.8X
 1.7s 72.24nm 5.2mb
 Z 20s 3.95um 5.2msz

CCH 37.69 209 P 01 40.60 0.9
 ZOBO 37.73 213 iPd 01 48.80 0.5
 1.1s 58.00nm 5.3mb
 Z 20s 3.01um 5.1msz

PPD 37.91 185 LR 12 36.00
 LR 01 49.10 0.0
 i 01 50.50
 LPB 37.94 213 P 01 52.00 2.1
 Z 18s 4.81um 5.3msz

S 07 46.00
 LR 12 35.00
 CNCB 38.11 212 P 01 51.00 -0.5
 ARE 39.74 217 eP 02 04.00 -0.9
 NNA 39.88 228 iPc 02 04.70 -1.1
 1.6s 150.00nm 5.4mb

iS 12 00.30
 TIO 39.92 61 iP 02 08.00 1.9
 AVE 40.37 57 eP 02 06.00 -3.6X
 i 02 51.50
 MOE 41.31 49 eP 02 19.00 1.8
 i 02 21.00

SCH 41.43 344 eP 02 18.00 0.0
 1.4s 274.00nm 5.8mb
 LKO 41.72 94 Pc 02 19.06 -1.8
 1.4s 190.00nm 5.6mb

EVAL 42.16 51 eP 02 24.40 0.2
 MTE 42.60 47 eP 02 30.20 2.3
 i 02 50.00
 EJIF 42.78 53 eP 02 30.60 1.3
 TIC 43.00 97 P 02 29.94 -1.4
 LIC 43.11 98 P 02 30.82 -1.4
 Z 18s 1.75um 5.0msz

S 08 45.00
 EPRU 43.11 53 eP 02 35.20 3.1X
 MVO 43.26 46 e(P) 02 36.00 2.8X
 KIC 43.34 98 P 02 32.64 -1.5
 EHOR 43.36 51 eP 02 34.90 0.9
 EPLA 43.51 48 eP 02 37.90 2.6X

MAL 43.67 53 iPd 02 41.50 5.0X
 iS 09 08.00
 ALOJ 44.02 53 eP 02 40.60 1.1
 ATEJ 44.03 53 eP 02 42.30 2.6
 AAPN 44.06 53 eP 02 40.70 0.8
 APHE 44.29 53 eP 02 46.00 4.2X
 ASMO 44.37 53 eP 02 43.00 0.7

ECOG 44.48 53 eP 02 44.70 1.5
 AFC 44.49 53 eP 02 44.70 1.3
 TOL 44.91 49 iPd 02 50.50 3.9X
 1.8s 272.73nm 5.9mb
 ePcP 04 31.00

ePP 05 08.00
 ePcS 08 13.00
 iS 09 26.00
 iSS 12 31.00
 GUD 45.09 48 eP 02 47.90 -0.3
 ENIJ 45.43 54 eP 02 51.10 0.3
 UYO 45.46 302 iPc 02 51.10 0.1
 EVIA 45.67 51 eP 02 52.80 0.1
 TUL 46.89 304 eP 03 02.20 0.0
 1.3s 38.00nm 5.3mb
 Z 21s 2.45um 5.1msz
 i 03 06.30
 e 10 00.00
 e 13 28.00
 LR 16 46.00

SIO 47.26 304 iP 03 05.30 0.1
 FKO 48.03 303 eP 03 11.00 -0.3
 1.3s 258.40nm 6.2mb
 RRO 48.85 303 eP 03 17.90 0.3
 1.5s 494.00nm 6.3mb

MEO 48.92 302 iPd 03 17.60 -0.6
 EPF 49.04 46 eP 03 19.80 0.8
 1.5s 83.55nm 5.5mb
 ACO 49.70 305 eP 03 24.80 0.7
 FRB 49.82 348 ePd 03 23.80 -0.8
 1.0s 93.00nm 5.7mb

LPF 49.91 40 eP 03 25.60 0.1
 1.5s 73.10nm 5.4mb
 MFF 49.93 42 eP 03 25.80 0.1
 1.8s 172.65nm 5.7mb
 LPO 50.15 45 eP 03 27.60 0.2
 1.6s 87.05nm 5.5mb

GRR 50.16 39 eP 03 27.30 -0.2
 1.8s 86.30nm 5.4mb
 FLN 50.54 39 eP 03 29.80 -0.6
 1.8s 103.60nm 5.5mb
 Z 20s 2.50um 5.2msz

LDF 50.70 39 eP 03 30.90 -0.6
 1.6s 62.20nm 5.3mb
 CAF 50.82 45 eP 03 32.50 -0.1
 1.6s 136.80nm 5.6mb

LSF 50.89 43 eP 03 33.10 0.0
 1.8s 138.10nm 5.6mb
 TCF 51.35 43 eP 03 36.40 -0.2
 1.8s 151.05nm 5.6mb

MAF 51.56 43 eP 03 38.10 -0.1
 1.5s 57.45nm 5.3mb
 BGF 51.85 43 eP 03 40.20 -0.2
 1.6s 99.50nm 5.5mb

AVF 52.26 43 eP 03 43.10 -0.3
 1.7s 88.25nm 5.4mb
 SSF 52.44 42 eP 03 44.30 -0.5
 1.6s 55.95nm 5.2mb

SMF 52.53 43 eP 03 45.30 -0.2
 1.8s 94.95nm 5.4mb
 MDZ 52.54 202 eP 03 46.20 0.5
 LBF 52.72 43 eP 03 46.30 -0.7
 1.6s 62.20nm 5.3mb

LOR 52.74 42 eP 03 46.30 -0.7
 1.8s 90.65nm 5.4mb
 Z 20s 2.50um 5.3msz
 GDH 53.37 358 ePc 03 54.00 2.7
 1.6s 133.33nm 5.7mb

e 11 25.00
 GRN 53.41 45 P 03 54.84 2.8
 AKU 53.53 15 iP 03 54.00 1.5
 1.8s 309.09nm 6.0mb

SURF 53.95 46 P 03 58.67 2.5
 BNI 53.99 46 P 03 59.40 3.0
 SNF 54.07 39 P 03 56.80 0.1
 DOU 54.12 39 P 03 56.00 -1.0
 S 11 35.00

LPL 54.15 45 eP 03 58.10 0.4
 1.7s 33.10nm 5.1mb
 LPG 54.16 45 eP 03 58.30 0.5
 1.6s 31.10nm 5.1mb

UCC 54.21 38 eP+ 04 01.00 3.3X
 DOI 54.26 46 P 04 00.80 2.5
 VITF 54.39 42 P 04 00.19 1.1
 HAU 54.56 42 eP 03 59.80 -0.7
 2.0s 139.95nm 5.6mb

Z 20s 2.25um 5.2msz
 LOMF 54.69 43 P 04 02.99 1.5
 DIX 54.75 45 ePc 04 02.60 0.4
 BSF 54.80 42 P 04 03.17 0.8
 GLD 54.92 308 P 04 03.50 0.1
 1.4s 81.08nm 5.6mb

	Z	19s	3.81um	5.5Msz			e	25 12.10	SOD	69.44	23 eP	05 39.00	-0.8		
CKI		54.96	47 P	04 04.90	1.5	DAG	62.64	7 ePc	04 55.20	-1.1	i	05 44.00			
GOL		55.03	307 P	04 05.00	0.7		1.0s	49.00nm		5.7mb	KEV	69.92	21 eP	05 42.00	-0.7
	Z	19s	2.36um	5.3Msz		EDM	62.68	322 eP	04 55.50	-1.5	i	05 46.00			
MOF		55.03	42 P	04 04.93	1.0	SDA	62.77	51 eP	04 52.70	-5.0X	e	14 56.00			
MMK		55.12	45 ePc	04 05.20	0.4	LACI	62.91	51 eP	04 58.50	-0.1	MBC	70.20	346 eP	05 45.00	0.6
MEM		55.14	39 Pc	04 04.50	-0.1	KEK	62.91	53 eP	05 03.00	4.3X	ALT	70.92	54 eP	05 49.00	-0.6
ENN		55.14	39 eP	04 04.50	-0.1	TIR	63.02	51 eP	04 57.70	-1.7	ELL	70.99	56 iP	05 50.10	0.0
		1.0s	34.00nm	5.3mb		BERA	63.06	52 eP	05 03.20	3.6X	BTK	72.88	53 eP	06 02.00	0.7
ECH		55.14	42 P	04 05.36	0.6	TPE	63.09	53 eP	05 01.00	1.1	HLW	73.08	63 eP	06 00.00	-2.4
BBS		55.17	43 P	04 06.33	1.4	TPC	63.26	300 eP	05 03.00	1.8		(S)	15 32.00		
CDF		55.27	42 P	04 06.34	0.6	OHR	63.71	52 eP	05 02.00	-2.1	INK	73.67	337 eP	06 04.00	-1.1
ANMO		55.37	302 P	04 06.00	-0.8		1.2s	67.00nm		5.7mb		1.2s	79.00nm		5.6mb
		1.8s	96.59nm	5.5mb		KBN	63.71	52 eP	05 04.50	0.5	pP	06 24.00	75kmx		
	Z	20s	3.72um	5.5Msz		KRA	63.72	42 ePd	05 02.80	-1.1	WIN	74.27	119 iP	06 05.00	-4.7X
ALO		55.37	302 eP	04 06.00	-0.8		1.5s	104.00nm		5.8mb		1.6s	50.00nm		5.3mb
		1.8s	98.86nm	5.5mb		Z	18s	1.40um		5.2Msz	BHL	76.03	58 P	06 16.00	-3.6X
	Z	20s	3.28um	5.4Msz		E	18s	1.90um			KFNJ	76.41	60 Pc	06 22.00	0.4
FEL		55.60	43 eP	04 08.25	0.1			e	05 06.60		LWI	77.87	96 iPd	06 30.70	0.5
GWf		55.65	41 P	04 08.74	0.4			eS	05 14.80		POF	79.47	125 iPd	06 39.00	0.7
TMA		55.74	45 ePc	04 08.00	-1.3			eS	13 42.00			1.0s	40.00nm		5.4mb
ZLA		55.75	43 ePc	04 08.60	-0.5	SPC	63.83	43 eP	05 04.40	-0.4	FBA	79.81	335 P	06 40.00	0.4
LLS		56.00	44 ePc	04 10.90	-0.3			e	11 30.50			1.2s	49.24nm		5.4mb
WTS		56.06	37 eP	04 11.00	-0.2	BAR	63.84	299 eP	05 06.00	1.0	PMR	81.33	332 P	06 49.50	1.9
		0.8s	12.00nm	5.0mb		GSC	63.85	302 eP	05 06.00	0.9		2.0s	119.43nm		5.6mb
VDL		56.23	44 ePc	04 11.90	-0.9	PLM	63.97	300 eP	05 07.00	1.0	Z	20s	3.20um		5.7Msz
MDI		56.24	45 P	04 14.80	2.2	PEC	64.19	300 P	05 10.00	2.7X	IMA	81.78	337 P	06 49.50	-0.6
SAX		56.32	44 ePc	04 13.10	-0.5		2.0s	111.11nm		5.7mb		1.0s	18.75nm		5.1mb
FFC		56.62	326 ePc	04 13.30	-1.9	SKO	64.21	51 iP	05 06.10	-1.2	AIA	81.92	187 eP	06 50.70	0.2
		1.8s	73.00nm	5.4mb				i(S)	11 20.50		SWZ	82.95	121 iPd	07 03.50	6.6X
MME		56.62	47 P	04 19.90	4.2X			i	13 25.00						

30d 16h

TIO	39.85	61	iP	22	25.00	1.9	WDC	68.22	308	eP	25	48.70	-1.8		0.6s	12.10nm	5.0mb			
NNA	39.96	228	iPd	22	22.50	-1.6	FHC	69.30	308	eP	25	57.80	0.5		0.1s	20.00nm	5.0mb			
	1.1s	22.78nm				4.8mb	SOD	69.37	23	eP	26	04.00	6.9X	DIS	32.43	181	eP	43	48.30	-0.4
SCH	41.40	344	eP	22	35.00	-0.4	KEV	69.85	21	iP	26	02.20	2.2	CTA	32.46	170	iPd	43	49.50	0.5
LKO	41.66	94	P	22	36.38	-1.7	ALT	70.84	54	eP	26	06.00	-0.8		1.0s	80.00nm	5.6mb			
LIC	43.05	98	P	22	49.50	0.1	INK	73.65	337	eP	26	22.00	-0.7			iS	49	05.00		
KIC	43.28	98	P	22	51.40	0.1	PRNI	76.04	62	eP	26	37.00	-0.2	BJI	35.15	327	eP	44	12.50	0.4
UYO	45.49	302	iPc	23	09.00	0.1	MBH	76.04	63	eP	26	38.00	0.8		6.0s	0.85nm	2.8mb	X		
TUL	46.91	304	eP	23	19.40	-0.7	LWI	77.81	96	iPd	26	47.70	0.2	Z	32s	3.40um	4.9Msz	X		
	0.9s	7.70nm				4.8mb	AIA	81.97	187	eP	27	09.20	0.8	N	13s	1.10um				
		e		23	22.60		KRI	83.05	110	iPc	27	15.50	0.3			eS	49	30.00		
		e		23	42.50		BUL	83.25	113	eP	27	07.00	-9.2X	ASPA	36.09	190	iPc	44	20.20	0.0
SIO	47.29	304	eP	23	22.80	-0.3	DZM	147.07	254	iPKPc	34	37.00	6.1X		0.6s	23.00nm	5.3mb			
RRO	48.88	303	eP	23	38.00	2.5	WRA	175.57	208	PKPd	35	02.20	3.0X	Z	18s	1.58um	4.8Msz			
	1.1s	91.80nm				5.7mb		1.1s	7.00nm							LR	02	14.10		
EPF	48.97	46	eP	23	36.60	0.5		S.D. = 1.2	on 76 of 86 obs.				LOE	37.78	283	eP	44	36.00	1.4	
	1.2s	23.80nm				5.1mb							KMI	37.90	295	Pd	44	37.50	1.7	
ACO	49.73	305	eP	23	42.40	0.4		? AUG 30, 1990	16h 36m 47.89± 3.76s					2.5s	70.00nm	5.0mb				
FRB	49.78	348	ePd	23	40.90	-1.1		40.679 N ± 11.4km	27.775 E ± 37.4km				QLP	38.59	175	eP	44	41.00	-0.2	
LPF	49.83	40	eP	23	46.00	3.4X		DEPTH = 10.0km	(geophysicist)				SNG	39.55	267	eP	44	48.90	-0.6	
	1.0s	16.00nm				5.0mb	TURKEY		(366)				NNT	39.76	275	eP	44	44.20	-7.0X	
MFF	49.85	42	eP	23	44.20	1.4									e	16	57.00			
	1.1s	19.55nm				5.0mb	EDC	0.34	169	iPg	36	55.00	0.1	WARB	40.33	199	eP	44	56.00	0.4
CAF	50.74	45	eP	23	48.80	-0.8			iSg	37	01.00				0.6s	19.00nm	5.0mb			
	1.2s	11.90nm				4.7mb	BNT	0.34	161	iPg	36	54.80	-0.1	BDT	40.38	282	eP	44	37.00	-19.2X
MDZ	52.60	202	eP	24	04.30	0.4			eSg	37	01.80		PVC	40.41	137	iPc	45	01.70	5.3X	
DOU	54.04	39	P	24	14.50	0.4	KCT	0.62	134	iPg	37	00.40	0.1	CHG	40.50	285	eP	44	59.30	2.0
MEM	55.06	39	P	24	25.20	3.6X	CIT	0.68	46	ePg	37	01.40	0.0	LZH	40.73	312	Pd	44	59.00	-0.1
ANMO	55.40	302	P	24	26.20	1.6			eSg	37	13.40				2.0s	71.00nm	5.0mb			
	1.2s	13.67nm				4.9mb	IZI	1.34	104	ePn	37	15.40	2.8X	Z	29s	3.80um	5.1Msz	X		
ALO	55.40	302	eP	24	24.00	-0.7		S.D. = 0.2	on 4 of 5 obs.				E	10s	1.10um					
	1.7s	29.81nm				5.0mb									sP	45	16.00			
Z	18s	1.55um				5.1Msz									eS	50	55.00			
FFC	56.62	326	eP	24	32.00	-0.8		AUG 30, 1990	16h 37m 18.15± 1.74s						sS	51	12.00			
	1.5s	47.00nm				5.3mb		12.066 N ± 3.4km	140.461 E ± 4.2km				BRS	41.00	163	iPc	45	00.50	-0.7	
SQTA	57.48	44	iPd	24	38.50	-0.7		DEPTH = 23.6 ± 12.8 km					DZM	42.43	143	iPc	45	14.00	0.9	
	1.4s	53.50nm				5.4mb		5.1mb (20 obs.)	4.8Msz (2 obs.)			STK	43.71	179	iPd	45	23.10	-0.1		
		i		25	02.40		WEST CAROLINE ISLANDS	(209)						1.4s	25.00nm	4.8mb				
MOX	58.50	40	eP	24	47.00	0.8		CENTROID, MOMENT TENSOR	(HRV)				FORR	44.29	195	eP	45	28.00	0.1	
BW06	58.59	311	P	24	46.20	-1.0		Data Used: GDSN						0.4s	17.00nm	5.3mb				
	1.3s	28.69nm				5.2mb		L.P.B.: 11S, 23C				COOL	46.56	203	eP	45	45.00	-1.1		
VOY	59.08	46	eP	24	49.90	-0.5		Centroid Location:				ADE	46.80	182	eP	45	49.10	1.2		
KHC	59.41	42	P	24	52.00	-0.6		Origin Time	16:37:20.4 0.9			BWA	46.85	171	eP	45	49.10	0.8		
CLL	59.51	40	eP	24	53.00	-0.1		Lot 12.35N 0.09 Lon 140.40E 0.13				MRWA	47.35	209	eP	45	51.00	-1.3		
LJU	59.52	46	e(P)	24	52.50	-0.9		Dep 15.0 FLX Half-duration 2.0					0.4s	4.00nm	4.8mb					
DAU	59.62	308	P	24	53.20	-1.3		Moment Tensor: Scale 10**17 Nm				CAN	47.82	171	eP	45	56.10	0.2		
IMW	59.73	312	P	24	55.00	-0.2		Mrr=-1.04 0.12 Mtt=0.80 0.13				BAL	48.19	208	eP	45	59.00	0.2		
BRG	60.00	40	eP	24	56.00	-0.5		Mff=0.24 0.14 Mrt=-0.25 0.45				KLB	48.56	206	eP	46	01.00	-0.7		
	1.2s	15.00nm				5.0mb		Mrf=-0.65 0.37 Mlf=0.76 0.13				MUN	49.57	207	eP	46	09.00	-0.5		
		i		24	59.40			Principal Axes:				TOO	49.60	175	iPc	46	11.10	1.5		
PRU	60.19	41	eP	25	02.00	4.1X		T Vol= 1.47 Plg=13 Azm=142				NWAO	49.94	206	eP	46	13.00	0.8		
MSU	60.20	305	P	24	57.70	-0.8		N -0.16 19 47				RKG	51.01	205	eP	46	23.50	3.1X		
SES	60.77	319	ePc	25	03.70	1.8		P -1.31 66 265				GUN	53.24	296	P	46	38.20	0.4		
LRM	61.02	314	eP	25	05.30	1.4		Best Double Couple: Mo=1.4*10**17				PKI	53.63	295	P	46	40.60	0.0		
NB2	61.31	28	P	25	07.00	1.7		NP1: Strike=256 Dip=36 Slip=-56				KKN	53.76	296	P	46	41.40	0.0		
	1.2s	8.80nm				4.8mb		NP2: 36 61 -112				DMN	53.90	295	P	46	42.80	0.3		
KSP	61.45	41	eP	25	05.50	-0.9	GUMO	4.56	70	eP	38	27.00	-0.4	GKN	54.35	296	P	46	45.20	-0.5
GLA	62.31	299	eP	25	14.00	1.4			e	38	35.20		HYB	59.90	283	ePc	47	26.00	1.0	
EDM	62.68	322	eP	25	16.00	1.3	PJG	4.56	70	eP	38	27.00	-0.4			e	47	35.00		
TPC	63.30	300	eP	25	19.00	-0.1			TT	41	26.50		NDI	60.92	296	eP	47	31.50	-0.3	
OHR	63.63	52	eP	25	19.30	-1.9	GUA	4.58	71	eP	38	28.00	0.2	GBA	61.32	279	Pc	47	34.20	-0.5
KRA	63.65	42	eP	25	21.00	0.0			0.7s	449.32nm				1.3s	24.30nm	5.2mb				
	1.1s	29.00nm				5.4mb	JAY	14.49	179	ePd	40	46.00	2.2	POO	64.28	285	iPc	47	54.80	0.5
Z	20s	1.30um				5.1Msz	DAV	15.49	253	eP	40	56.00	-0.8	MAIO	75.73	305	iPd	49	05.70	1.7
E	20s	1.60um					OCP	19.03	280	eP	41	47.00	5.7X		1.1s	23.56nm	5.1mb			
		e		25	25.30		BAG	19.75	285	eP	41	48.00	-1.7	INK	77.41	22	ePd	49	11.90	-0.7
BAR	63.87	299	eP	25	25.00	2.1		RAB	19.91	144	e(P)	41	52.00	0.8		1.2s	47.00nm	5.4mb		
GSC	63.88	302	eP	25	23.00	0.0			iS	45	44.00		YKA	86.16	27	eP	49	58.00	-0.5	
PLM	64.00	300	eP	25	26.00	2.1			eS	46	58.00			1.1s	11.30nm	5.0mb				
SKO	64.13	51	iP	25	23.70	-0.7	PMG	22.35	162	eP	42	15.00	-1.0	KEV	86.61	341	iP	50	00.60	0.1
RVR	64.40	300	eP	25	29.00	2.7X	TSRJ	23.72	351	P	42	30.30	1.1	PNT	87.32	40	eP	50	04.00	-0.4
NEW	64.44	316	P	25	25.70	-0.6	CHJJ	23.91	357	P	42	29.40	-1.8		0.5s	5.00nm	5.0mb			
	1.2s	35.98nm				5.4mb	KAKJ	24.04	359	P	42	32.20	-0.1	WDC	87.49	49	eP	50	05.70	0.3
CLC	64.51	302	eP	25	30.00	2.9X	MAT	24.45	356	eP	42	35.00	-1.4	SOD	87.79	339	iP	50	06.00	-0.3
KVN	64.84	306	P	25	27.00	-2.3			1.2s	23.44nm			PCC	88.34	52	e(P)	50	09.30	-0.2	
YKA	65.22	332	eP	25	32.00	0.9							BRK	88.34	52	e(P)	50	09.90	0.4	
	1.1s	6.80nm				4.8mb	KKM	24.67	258	eP	42	37.00	-1.8	CMB	89.74	51	eP	50	16.30	0.1
ISA	65.23	302	eP	25	33.00	1.3	NIJ	25.10	357	P	42	42.10	-0.5	PRI	90.01	53	e(P)	50	19.00	1.4
ABL	65.88	301	P	25	35.80	-0.3	SSE	25.99	320	Pc	42	52.00	1.0	SUF	90.07	335	iP	50	16.50	-0.7
BCAO	66.10	92	iPd	25	36.70	-0.8			1.2s	55.00nm				0.9s	21.80nm	5.4mb				
	0.6s	19.00nm				5.5mb	Z	20s	2.50um				FRI	90.53	52	eP	50	20.10	0.3	
		ic		25	45.30				pP	43	00.00	31kmX	NUR	91.73	334	iP	50	24.00	-0.9	

BCAO 119.99 282 ePKPc 56 10.10 0.6
0.5s 3.00nm
NNA 143.53 94 i(PKP) 57 09.00 15.3X
0.7s 4.79nm
TACH 144.20 132 ePKP 56 51.50 -2.8X
SAN 144.49 132 ePKP 56 53.00 -1.8
PCH 144.52 132 ePKP 56 53.50 -1.4
PEL 144.63 131 iPKPc 56 54.00 -1.1
1.1s 37.97nm
FCH 144.83 132 ePKP 56 55.50 -0.3
ZOBO 151.98 102 PKP 57 08.20 0.4
LPB 151.99 102 PKP 57 15.00 7.4X
CNCB 152.07 103 PKP 57 09.00 1.1
CCH 153.75 105 ePKP 57 20.00 10.1X
S.D. = 0.9 on 77 of 86 obs.

& AUG 30, 1990 16h 54m 51.32s
60.669 N 151.813 W
DEPTH = 70.4km
KENAI PENINSULA, ALASKA (14)
<AGS-P>.

NKA 0.29 75 iP 55 04.09 1.5
RDT 0.31 252 iP 55 02.30 -0.5
iS 55 11.64
SPU 0.53 347 iP 55 04.10 -0.6
eS 55 14.55
CKL 0.59 334 iP 55 04.70 -0.7
CRP 0.62 345 iP 55 05.31 -0.5
iS 55 16.44
CGLM 0.65 352 iP 55 05.48 -0.5
BGL 0.66 335 iP 55 05.53 -0.6
eS 55 16.69
NNL 0.68 158 eP 55 06.83 0.6
NCG 0.76 347 iP 55 06.67 -0.6
SLKM 0.80 101 iP 55 07.25 -0.4
SUA 0.95 33 eP 55 09.18 -0.4
iS 55 23.06
HOM 1.02 175 eP 55 11.41 1.1
CNPM 1.18 166 eP 55 12.07 -0.4
PMS 1.24 61 eP 55 12.90 -0.4
eS 55 29.83
SEW 1.30 115 eP 55 13.68 -0.3
SKT 1.32 6 eP 55 13.32 -1.0
PWA 1.36 43 eP 55 14.97 0.2
PDB 1.48 234 iP 55 14.86 -1.6
eS 55 33.35
PLRM 1.60 53 eP 55 17.06 -0.9
GHO 1.78 50 eP 55 19.41 -1.2
CUT 1.89 22 eP 55 21.58 -0.5
MCNL 1.96 222 eP 55 21.72 -1.2
CDD 1.97 209 eP 55 22.30 -0.9
SML 2.03 54 eP 55 22.68 -1.4
SCM 2.46 60 eP 55 28.86 -1.2
VLZ 2.72 78 eP 55 30.91 -2.6
KLU 2.98 71 eP 55 34.75 -2.5

27 obs. associated

AUG 30, 1990 17h 11m 28.78 ± 0.25s
3.134 N ± 5.3km 125.419 E ± 6.3km
DEPTH = 191.5km (2 depth phases)
4.9mb (21 obs.)

TALAUD ISLANDS (263)

KKM 9.62 288 ePc 13 42.00 -2.2
0.9s 87.50nm 5.1mb
MTN 16.86 160 eP 15 10.20 -5.2X
0.3s 238.00nm 6.2mb X
KNA 19.05 170 eP 15 36.50 -2.3
GUMO 21.84 60 eP 16 07.30 0.6
PJG 21.84 60 eP 16 07.20 0.5
GUA 21.86 61 eP 16 07.60 0.7
0.8s 220.90nm 5.7mb
OIZ 21.95 317 P 16 08.60 0.9
KGM 22.11 268 eP 16 11.50 2.3
IPM 24.38 274 ePd 16 34.70 3.6X
0.9s 114.80nm 5.5mb
WB5 24.50 159 iPc 16 31.30 -0.8
iPcP 20 37.90
iS 20 47.00
iScP 23 32.50
WRA 24.55 159 Pd 16 32.20 -0.4
0.8s 91.70nm 5.4mb
PMG 24.99 120 eP 16 35.00 -1.6
SNG 25.02 280 eP 16 39.50 2.5
1.0s 84.00nm 5.3mb
LOE 27.23 303 eP 16 56.00 -1.0

NANU 27.30 200 eP 16 58.00 0.4
QIS 27.35 150 iPc 16 57.20 -0.9
0.0s 41.00nm
e 17 37.20 199km
ASPA 27.89 163 eP 17 02.10 -0.9
1.2s 16.00nm 4.6mb
Z 20s 0.77um 4.3msz
eS 21 33.00
LR 29 41.70
WARB 29.17 178 eP 17 15.00 0.7
0.4s 9.00nm 4.9mb
CHG 30.23 303 ePc 17 24.30 0.6
0.9s 13.66nm 4.7mb
CTA 30.84 139 iPc 17 29.10 0.0
1.1s 43.04nm 5.1mb
MRWA 33.41 195 eP 17 50.00 -1.3
0.3s 4.00nm 4.5mb
FORR 33.89 176 iPd 17 54.70 -0.6
0.4s 26.00nm 5.2mb
XAN 34.38 335 P 17 59.50 0.0
MAT 35.27 18 (P) 18 05.00 -2.0
0.8s 20.90nm 4.8mb
eS 23 26.00
DL2 35.77 355 eP 18 13.50 2.4
TIY 36.42 343 eP 18 17.00 0.3
BJI 37.68 348 eP 18 26.00 -1.1
STK 38.06 157 iPc 18 31.10 0.7
0.5s 10.00nm 4.7mb
e 19 10.60 184km
iS 24 11.50
LZH 38.37 331 Pd 18 33.00 -0.2
2.0s 46.00nm 4.8mb
Z 15s 0.50um 4.5mszX
SNY 38.56 358 eP 18 33.20 -1.2
ADE 39.90 163 iPc 18 47.10 1.5
0.7s 27.40nm 4.9mb
BRS 40.21 141 iPc 18 48.00 -0.2
MDJ 41.47 5 eP 18 58.80 0.5
LSA 41.86 313 P 19 00.40 -1.9
GTA 42.95 331 eP 19 10.00 -0.6
0.4s 7.00nm 4.6mb
BWA 43.18 152 iPc 19 14.90 2.6
CAN 44.18 152 eP 19 21.90 1.5
TOO 44.58 157 iPd 19 25.90 2.4
GUN 45.03 307 P 19 27.40 -0.2
PKI 45.26 307 P 19 29.40 0.0
0.4s 11.00nm 4.7mb
KKN 45.45 307 P 19 30.20 -0.6
DMN 45.52 306 P 19 31.80 0.4
GKN 46.06 307 P 19 35.00 -0.5
0.5s 25.00nm 4.9mb
DZM 47.28 124 iPd 19 45.90 0.9
HYB 48.09 291 eP 19 51.50 0.2
GBA 48.51 285 P 19 53.10 -1.4
0.6s 6.20nm 4.3mb
WMO 52.47 326 P 20 24.00 -0.1
THZ 62.04 141 P 21 31.30 0.1
LTZ 62.22 143 P 21 32.70 0.4
TCW 62.61 140 P 21 34.30 -0.5
KNZ 62.80 142 P 21 36.10 0.1
0.4s 30.00nm 5.5mb
KIW 62.84 140 P 21 35.90 -0.5
MRW 62.90 140 P 21 35.00 -1.7
CAW 63.07 140 P 21 37.00 -0.9
MNG 63.08 139 P 21 37.50 -0.5
WDW 63.10 140 P 21 37.10 -1.0
PGZ 63.60 139 eP 21 40.70 -0.6
NOZ 63.82 136 P 21 43.20 0.4
KEV 90.00 340 eP 24 08.00 0.7
SOD 90.51 338 iP 24 09.60 -0.1
NUR 92.59 331 eP 24 12.00 -7.3X
NBZ 98.73 333 P 24 47.20 -0.2
0.7s 0.50nm 4.1mb
KIC 129.35 281 PKP 30 19.20 2.1
LKO 129.59 285 PKP 30 17.58 0.1
0.5s 4.50nm
LIC 129.66 281 PKP 30 19.00 1.4
S.D. = 1.2 on 62 of 65 obs.

AUG 30, 1990 17h 36m 47.43 ± 0.20s
8.587 S ± 3.5km 74.387 W ± 4.3km
DEPTH = 157.4km (3 depth phases)
4.7mb (35 obs.)

PERU-BRAZIL BORDER REGION (112)

PT08 3.97 212 iPd 37 50.20 1.7
eS 38 27.90

NNA 4.15 215 iPc 37 50.50 -0.1
iS 38 29.50
PT10 4.30 216 iPd 37 50.20 -2.3
eS 38 27.90
PT10 4.30 216 eP 37 54.00 1.5
e 38 23.50
e(S) 38 50.10
ZOBO 9.78 142 P 39 05.40 -0.7
LR 48 14.00
LPB 10.00 143 P 39 09.00 0.2
1.0s 100.00nm 5.4mb
i 41 53.00
CNCB 10.29 143 P 39 12.80 0.1
CCH 11.87 138 P 39 34.60 1.4
BOG 13.13 1 e(P) 39 55.00 5.5X
SIV 14.94 121 P 40 11.20 -0.9
BMG 15.61 5 eP 40 21.00 0.5
SDV 17.76 12 eP 40 46.80 0.3
UPA 18.19 344 ePc 40 51.80 0.8
0.7s 58.90nm 5.0mb
TOV 18.82 14 eP 40 57.30 -0.4
OLLA 19.97 22 eP 41 11.00 1.4
MORO 20.25 17 eP 41 15.00 2.5
LLAV 20.38 22 eP 41 16.00 2.2
PPD 25.91 124 eP 42 06.30 -0.4
e 42 08.30
e 42 09.90
e 42 39.00
BAO 26.72 108 eP 42 14.40 0.1
CAI 36.97 89 eP 43 42.40 -1.0
JSC 43.12 352 P 44 33.00 -0.7
LHS 43.26 352 P 44 33.50 -1.3
GBTN 44.98 349 P 44 48.50 -0.1
RSCP 45.20 347 P 44 49.00 -1.4
BLA 45.91 353 P 44 56.00 0.1
NAV 46.05 353 P 44 57.00 -0.1
NA2 46.58 356 P 45 01.40 0.3
UYO 46.59 337 iPc 45 01.80 0.5
OLY 46.72 341 P 45 00.00 -2.4
TUL 48.64 337 iPd 45 17.00 -0.2
0.9s 32.40nm 5.0mb
e 45 22.60
FVM 48.69 343 P 45 15.90 -1.7
SIO 48.70 336 iP 45 17.60 -0.1
MEO 48.83 333 iPd 45 18.60 -0.2
ACO 50.69 334 iP 45 33.80 0.9
HBVT 52.71 1 P 45 47.00 -0.8
ALQ 52.85 327 iPd 45 49.00 -0.2
1.0s 16.75nm 4.8mb
epP 46 25.00 157km
ANMO 52.85 327 P 45 49.30 0.1
0.9s 13.66nm 4.7mb
pP 46 26.00 160km
RSNY 52.89 360 P 45 48.00 -1.0
0.6s 8.05nm 4.7mb
CBM 55.55 5 P 46 08.00 -0.4
GOL 55.96 331 P 46 11.00 -0.9
0.6s 6.17nm 4.7mb
GLA 56.52 319 P 46 15.70 0.0
PLM 58.04 318 P 46 26.60 0.1
pP 47 03.00 155km
MSU 58.59 326 P 46 30.00 -0.3
DAU 59.45 328 P 46 36.00 -0.3
DUG 60.13 327 P 46 41.00 0.3
BW06 60.34 331 P 46 40.60 -1.6
0.9s 14.83nm 4.9mb
IMW 61.85 331 P 46 51.80 -0.6
PRI 62.21 319 eP 46 55.10 0.4
KVN 62.39 323 P 46 55.00 -0.9
LLA 62.67 319 eP 46 57.90 0.3
PRS 62.79 318 eP 46 59.00 0.6
CMB 63.16 320 eP 47 01.50 0.6
ARN 63.49 319 P 47 03.30 0.3
SCH 63.49 5 eP 47 02.00 -0.6
GCC 63.60 319 eP 47 04.50 0.8
LRM 63.99 331 eP 47 06.50 0.1
BKS 64.25 319 e(P) 47 08.80 0.9
0.8s 34.00nm 5.3mb
ORV 64.77 321 eP 47 12.20 1.0
MIN 65.31 322 eP 47 14.50 -0.3
WDC 66.02 322 eP 47 17.70 -1.5
LBFM 66.08 323 P 47 19.50 -0.4
FHC 67.04 321 eP 47 26.80 1.1
FFC 67.19 343 iPd 47 25.90 -0.5
0.8s 13.00nm 4.8mb
NEW 67.97 331 P 47 31.00 -0.4
0.7s 22.00nm 5.1mb

30d 17h

LON	69.37	327 P	47 40.00	0.0
EDM	69.89	336 iPd	47 42.30	-0.7
	0.8s	77.40nm		5.6mb
PNT	69.90	330 iPd	47 44.40	1.3
	0.7s	27.00nm		5.2mb
BMW	69.96	326 P	47 44.00	0.4
LIC	70.69	80 P	47 47.54	-1.0
TIC	70.78	80 P	47 48.26	-0.9
LKO	70.83	77 P	47 46.96	-2.5
	0.7s	7.50nm		4.6mb
KIC	71.00	80 P	47 49.62	-0.8
	0.7s	21.00nm		5.0mb
YKA	77.34	342 eP	48 24.80	-1.0
	0.6s	9.80nm		4.7mb
LPF	85.40	40 eP	49 08.40	0.3
	0.6s	3.60nm		4.4mb
MFF	85.54	42 eP	49 09.50	0.6
	0.6s	5.40nm		4.5mb
GRR	85.62	40 eP	49 09.70	0.4
	0.6s	3.60nm		4.4mb
LFF	85.65	44 eP	49 10.50	1.0
	0.6s	9.00nm		4.8mb
FLN	85.97	40 eP	49 11.30	0.3
	0.6s	7.20nm		4.7mb
CAF	86.55	44 eP	49 14.20	0.2
	0.7s	4.40nm		4.4mb
TCF	87.01	42 eP	49 16.10	-0.1
	0.8s	4.05nm		4.4mb
INK	87.08	341 ePd	49 16.40	0.4
	0.9s	30.00nm		5.2mb
MAF	87.23	43 eP	49 17.60	0.4
	0.7s	2.75nm		4.3mb
BGF	87.51	42 eP	49 18.80	0.3
	0.6s	7.20nm		4.8mb
AVF	87.91	42 eP	49 20.30	-0.1
	0.8s	4.05nm		4.5mb
SSF	88.08	42 eP	49 21.20	0.0
	0.6s	1.80nm		4.2mb
SMF	88.20	42 eP	49 22.00	0.2
	0.8s	6.70nm		4.7mb
LOR	88.36	42 eP	49 22.40	-0.2
	0.8s	4.05nm		4.5mb
DOU	89.53	39 Pc	49 28.40	0.5
LPL	89.89	44 eP	49 31.10	1.0
	0.6s	3.60nm		4.6mb
LPG	89.90	44 eP	49 31.40	1.2
	0.7s	3.60nm		4.5mb
FBA	90.78	336 P	49 34.00	0.5
	0.7s	17.44nm		5.3mb
CDF	90.86	41 eP	49 34.30	0.0
	0.6s	3.60nm		4.6mb
NB2	95.32	29 P	49 55.30	0.9
	0.8s	3.20nm		4.7mb
MAT	139.37	318 ePKP	55 58.00	-0.1
	0.8s	4.48nm		
WRA	139.95	225 PKPc	55 55.80	-3.8X
	0.4s	0.50nm		
WB5	139.98	225 ePKP	56 00.50	0.9
		e	56 00.90	
DL2	146.56	337 PKP	56 12.00	1.7X
MTN	146.89	230 ePKP	56 15.00	3.5X
	0.6s	141.00nm		
BTO	147.88	354 ePKP	56 15.80	3.2X
GTA	148.87	9 ePKP	56 16.00	1.8X
GKN	152.35	43 PKP	56 28.00	8.2X
DMN	152.92	43 PKP	56 29.20	8.5X
KKN	152.92	43 PKP	56 29.10	8.4X
	0.6s	19.00nm		
PKI	153.15	43 PKP	56 29.40	8.3X
S.D. = 0.9 on 94 of 104 obs.				

* AUG 30, 1990 18h 09m 01.40±1.81s
44.401 N ±12.0km 22.189 E ±19.1km
DEPTH = 10.0km (geophysicist)

ROMANIA (358)

SRE	0.77	70 ePc	09 15.50	-1.0
DRA	1.50	79 eP	09 28.00	-0.4
DEV	1.57	19 iPc	09 29.00	-0.3
SKO	2.49	193 ePn	09 55.00	12.4X
MLR	2.88	66 eP	09 50.00	1.7
VAY	3.09	175 ePn	09 51.00	-0.1
S.D. = 1.4 on 5 of 6 obs.				

AUG 30, 1990 18h 33m 00.87±0.31s
6.146 N ±5.7km 82.634 W ±4.5km
DEPTH = 10.0km (geophysicist)

5.1mb (52 obs.) 5.2MsZ (12 obs.)
SOUTH OF PANAMA (83)

CENTROID, MOMENT TENSOR
Data Used: GDSN
L.P.B.: 12S, 27C
Centroid Location:
Origin Time 18:33: 6.9 0.7
Lat 6.42N 0.07 Lon 82.53W 0.05
Dep 15.0 FIX Half-duration 2.0
Moment Tensor: Scale 10**17 Nm
Mrr= 0.16 0.06 Mtt=-0.28 0.07
Mff= 0.12 0.10 Mrt= 0.51 0.21
Mrf=-0.43 0.24 Mtf= 1.82 0.07
Principal Axes:
T Vol= 1.75 Plg= 1 Azm=312
N 0.36 74 45
P -2.11 16 222
Best Double Couple:Ma=1.9*10**17
NP1:Strike=358 Dip=78 Slip=-169
NP2: 266 79 -12

DVD	2.28	5 iPd	33 36.20	-3.0
		S	33 59.80	
UPA	4.17	47 iPd	34 04.30	-1.6
	0.5s	929.58nm		
		iS	34 52.50	
COTA	7.19	143 eP	34 44.50	-4.6X
PSO	7.23	133 eP	34 48.00	-1.6
GGP	7.46	147 eP	34 49.20	-3.8X
OUR	7.49	147 eP	34 49.10	-4.2X
CAYA	7.61	142 eP	34 52.00	-2.2
VC1	7.96	148 eP	34 57.60	-2.3
ANGL	8.25	142 eP	34 47.00	-16.8X
BOG	8.66	100 P	35 11.00	1.4
		iS	36 49.00	
BMG	9.54	84 iPc	35 21.00	-0.4
SDV	12.20	76 iPd	35 57.10	-0.9
TOV	13.22	73 eP	36 09.70	-1.7
MORO	14.92	71 eP	36 31.00	-2.7X
GUAC	15.73	74 eP	36 43.00	-1.4
CAR	16.13	73 iPc	36 48.00	-1.5
		iS	39 50.00	
OLLA	16.14	75 iPd	36 48.00	-1.6
LLAV	16.24	74 iPd	36 49.50	-1.4
OXX	17.55	309 (P)	37 13.96	6.4X
NNA	18.91	162 ePc	37 21.30	-2.9X
	1.0s	31.00nm		4.5mb
		eS	41 00.00	
PT10	18.96	163 eP	37 24.00	-0.8
PT10	18.96	163 iP	37 24.60	-0.2
PT08	18.98	161 iP	37 24.60	-0.8
LVVM	19.05	316 (P)	37 24.44	-1.4
MGP	19.21	51 P	37 26.70	-1.1
MCP	19.44	50 P	37 30.00	-0.6
LRS	19.57	51 P	37 30.50	-1.6
PORP	19.59	51 P	37 31.00	-1.3
IIIT	19.92	311 (P)	37 39.76	3.7X
ACX	19.94	304 (P)	37 38.58	2.5
CSB	20.10	52 P	37 36.50	-1.2
PPM	20.18	311 (P)	37 40.07	0.9
III	20.43	308 (P)	37 45.21	3.8X
SMMM	20.68	312 (P)	37 48.85	5.1X
CRX	21.18	310 (P)	37 54.86	5.6X
IIJ	21.42	311 (P)	37 53.73	1.9
NEV	22.45	59 eP	38 00.00	-1.7
MGH	22.58	61 eP	38 04.00	1.1
BBL	22.75	64 eP	38 04.00	-0.6
PAG	22.76	63 eP	38 03.50	-1.3
MGG	23.04	63 eP	38 05.00	-2.4
ARE	25.02	154 eP	38 27.00	0.0
ZOBO	26.50	147 eP	38 33.00	-8.1X
	1.1s	26.10nm		4.8mb
	Z 24s	4.41um		4.9MsZ
		i	38 39.00	
		S	43 24.00	
		LR	46 52.00	
LPB	26.73	148 eP	38 38.00	-5.0X
	Z 19s	6.94um		5.2MsZ
		S	43 28.00	
		LR	47 15.00	
CNCB	27.02	148 P	38 44.20	-1.7
RSCP	29.44	355 P	39 05.30	-1.7
	0.9s	74.35nm		5.5mb
SIV	30.65	136 iPc	39 14.80	-3.1X
BLA	30.99	3 P	39 18.60	-2.1
	1.1s	53.13nm		5.3mb
TUL	31.99	340 eP	39 26.60	-2.9X

	1.3s	24.00nm		5.0mb
Z 19s		0.55um		4.3MsZ
		e	40 37.60	
		LR	48 00.00	
SIO	32.03	339 eP	39 26.70	-3.1X
MEO	32.08	335 iPd	39 27.30	-3.0X
ACO	33.95	336 eP	39 45.30	-1.3
ALO	36.11	326 iPc	40 05.00	-0.2
	1.4s	104.65nm		5.5mb
Z 20s		2.07um		4.9MsZ
ANMO	36.11	326 P	40 05.30	0.1
	1.5s	166.67nm		5.7mb
Z 22s		1.67um		4.8MsZ
GLD	39.15	332 P	40 31.00	0.3
	1.3s	167.82nm		5.6mb
GOL	39.18	332 P	40 30.40	-0.7
	0.9s	20.64nm		4.8mb
GLA	40.14	316 eP	40 39.00	0.1
BAR	41.23	314 eP	40 48.00	0.2
PPD	41.54	133 eP	40 46.20	-4.2X
TPC	41.58	316 eP	40 51.00	0.4
PLM	41.73	315 eP	40 52.00	0.0
MSU	41.87	325 P	40 53.60	0.4
PEC	42.23	315 P	40 55.60	-0.4
RVR	42.43	315 eP	40 57.00	-0.6
DAU	42.68	327 P	40 59.90	0.0
GSC	42.77	317 eP	41 01.00	0.6
MWC	43.04	315 eP	41 03.00	0.2
PAS	43.08	315 eP	41 03.00	0.2
DUG	43.38	326 P	41 04.60	-0.8
	1.5s	35.71nm		4.9mb
BW06	43.55	331 P	41 06.00	-0.9
	1.4s	74.95nm		5.3mb
CLC	43.59	318 eP	41 07.00	-0.1
SYP	44.55	314 eP	41 15.00	0.1
FRI	45.66	318 eP	41 22.50	-1.1
KVN	45.79	321 P	41 24.80	0.0
PRI	45.86	316 eP	41 24.40	-0.9
CMB	46.68	318 eP	41 30.50	-1.2
LRM	47.21	332 ePc	41 35.00	-1.0
GCC	47.24	316 eP	41 31.50	-4.5X
BKS	47.83	317 eP	41 40.90	0.1
	1.2s	69.00nm		5.6mb
Z 20s		2.30um		5.1MsZ
N 20s		0.70um		
E 20s		2.00um		
		eLO	57 00.00	
		eLR	58 00.00	
ORV	48.24	319 eP	41 43.40	-0.5
WDC	49.47	320 eP	41 49.50	-3.9X
LBFW	49.48	321 P	41 52.20	-1.5
SES	50.10	337 eP	41 56.00	-2.1
SCH	50.18	12 eP	41 57.00	-1.6
FHC	50.52	319 eP	42 01.40	0.0
FFC	50.89	346 eP	42 02.00	-1.9
	0.7s	10.00nm		4.9mb
NEW	51.19	331 P	42 04.20	-2.2
	1.3s	29.25nm		5.1mb
PNT	53.12	331 eP	42 20.00	-0.9
	0.8s	19.00nm		5.1mb
EDM	53.20	337 iPc	42 19.20	-2.3
FRB	58.39	7 eP	42 56.50	-2.0
YKA	60.93	344 eP	43 12.60	-3.5X
	1.0s	14.40nm		5.1mb
GDM	65.66	11 eP	43 40.00	-8.4X
		e	45 45.00	
		i	47 28.00	
INK	70.61	342 eP	44 17.00	-1.1
	1.0s	50.00nm		5.6mb
AIA	72.49	172 e(P)	44 38.00	8.7X
MBC	72.90	351 eP	44 31.00	-0.6
	1.0s	37.00nm		5.4mb
PMR	73.56	333 P	44 33.30	-2.4
	1.1s	17.19nm		5.0mb
FBA	74.08	336 P	44 33.70	-5.0X
	1.0s	15.00nm		5.0mb
HON	74.18	290 P	44 45.00	5.0X
	Z 20s	1.70um		5.3MsZ
IFR	76.22	57 eP	44 53.00	1.2
		i	44 59.00	
LKO	76.27	82 P	44 49.22	-3.0X
IMA	76.77	337 P	44 50.10	-4.1X
	1.0s	6.25nm		4.7mb
LIC	77.08	85 P	44 55.52	-1.2
AAPN	77.17	53 eP	44 57.00	0.0
ALOJ	77.17	53 eP	44 59.50	2.5
ATEJ	77.24	54 eP	44 58.70	1.3

TOL	77.33	51 eP	44 56.00	-1.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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36d 21h

MCK	1.16	66	eP	14 01.77	
SKT	1.30	184	eP	13 53.02	-0.5
PWA	1.76	157	eP	14 00.53	0.4
SUA	1.84	171	eP	14 01.21	-0.1
WRH	1.87	48	eP	14 03.11	1.4
GHO	1.87	143	eP	14 01.83	0.0
NCG	1.92	192	eP	14 01.84	-0.7
PLRM	1.97	148	eP	14 03.30	0.2
CGLM	2.00	190	eP	14 01.82	-1.8
SML	2.02	135	eP	14 03.66	-0.2
CRP	2.05	191	eP	14 03.98	-0.5
CCB	2.07	47	eP	14 02.59	-2.1
BGL	2.08	194	eP	14 05.27	0.4
SPU	2.13	190	eP	14 04.05	-1.4
CKL	2.14	193	eP	14 05.44	-0.3
PMS	2.20	157	eP	14 07.74	1.3
HDA	2.24	58	eP	14 08.82	1.7
SCM	2.35	126	eP	14 10.84	2.2
GLW	2.44	43	eP	14 13.54	3.7
RDT	2.76	191	eP	14 14.68	0.2
SLKM	2.82	169	eP	14 15.60	0.2
KLU	3.08	123	eP	14 19.09	0.0

25 obs. associated

* AUG 30, 1990 21h 46m 20.72±2.86s
29.469 S ±12.5km 72.621 W ±22.3km
DEPTH = 29.5 ±13.7 km
OFF COAST OF CENTRAL CHILE (134)

RTBS	3.50	129	e(P)	47 17.00	2.6
JACH	3.64	152	eP	47 19.00	2.4
ROCH	3.75	159	eP	47 18.00	-0.2
			i	48 12.70	
RTCB	3.86	122	e(P)	47 19.50	-0.1
ZON	3.98	122	eP	47 20.50	-0.8
PEL	4.02	156	iP	47 21.50	-0.4
			iS	48 17.50	
RTLL	4.04	118	ePd	47 20.90	-1.2
			eS	48 09.80	
LCCH	4.09	168	eP	47 23.00	0.1
FCH	4.33	153	eP	47 26.80	0.3
			i	48 14.00	
CFA	4.34	120	ePc	47 25.90	-0.5
			S	48 18.00	
TACH	4.41	161	eP	47 27.00	-0.4
			i	48 14.50	
PCH	4.51	157	eP	47 31.00	2.1
			i	48 27.50	
LNV	4.59	167	eP	47 29.00	-0.9
MDZ	4.69	137	eP	47 43.00	11.6X
CHCH	4.76	160	eP	47 31.50	-0.8
			i	48 44.00	
SIV	17.11	41	iPc	50 19.60	0.2
PPD	20.55	74	(P)	51 10.00	10.4X

S.D. = 1.4 on 15 of 17 obs.

% AUG 30, 1990 22h 09m 19.46±0.90s
37.677 N ±8.1km 15.031 E ±7.4km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO	0.37	314	P	09 26.10	-1.0
			eSg	09 32.60	
MEU	0.58	188	P	09 31.00	-0.3
			eSg	09 40.60	
ATN	0.59	35	P	09 31.40	0.0
			eSg	09 39.20	
GIB	0.85	292	P	09 37.10	1.1
			eSg	09 49.30	
SOI	0.90	64	P	09 36.90	0.2
			eSg	09 50.90	

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

AUG 30, 1990 22h 20m 51.12±1.34s
9.751 N ±8.5km 84.556 W ±7.3km
DEPTH = 53.6 ±12.4 km
4.8mb (32 obs.) 5.0Msz (6 obs.)
COSTA RICA (78)
MD 4.9 (UPA), 4.7 (SJR). Felt
(V) at Jaco, (IV) at Puntarenas
and Quepos, (III) at San Jose
and Alenas and (II) at
Turrialba.

PSO	11.14	139	eP	23 30.50	-0.3
BOG	11.59	115	eP	23 52.00	15.2X

SDV	13.77	92	e(S)	25 18.00	
OXX	13.89	303	eP	24 05.70	0.2
TOV	14.55	89	eP	24 08.00	0.8
JSC	24.60	7	P	26 08.30	0.7
LHS	24.85	7	P	26 10.50	0.5
MEO	28.03	335	e(P)	26 30.60	-8.7X
FVM	28.60	350	P	26 42.40	-2.0
ZOBO	30.54	148	P	27 02.00	-0.6
LPB	30.78	148	eP	27 17.00	12.6X
CNCB	31.07	148	eP	27 08.00	0.8
ALO	32.08	325	eP	27 14.00	-1.5
	0.9s		3.57nm		4.2mb
			e	27 25.70	
ANMO	32.08	325	P	27 14.20	-1.3
	1.0s		5.00nm		4.3mb
SIV	34.56	138	P	27 34.60	-2.4
GLA	36.26	314	P	27 52.40	1.1
MSU	37.86	324	P	28 05.20	0.4
PLM	37.87	313	P	28 06.50	1.6
KVN	41.81	320	P	28 37.70	0.2
ARN	43.18	316	P	28 49.90	1.4
FFC	46.95	346	eP	29 18.00	-0.3
SCH	47.12	14	eP	29 18.00	-1.6
FRB	55.10	9	eP	30 18.00	-1.8
YKA	56.96	344	eP	30 31.30	-1.9
	0.7s		1.10nm		4.0mb
INK	66.62	342	eP	31 47.00	9.2X
TOL	76.55	51	eP	32 38.00	0.3
AAPN	76.58	54	eP	32 39.70	1.7
ALOJ	76.60	54	iP	32 40.70	2.6
ATEJ	76.68	54	eP	32 41.30	2.7
ACHM	76.82	54	eP	32 41.70	2.4
ASMO	76.87	54	eP	32 40.00	0.4
APHE	76.94	54	eP	32 41.00	1.0
LKO	77.66	82	Pc	32 42.69	-1.5
	0.6s		8.50nm		4.9mb
LPF	78.49	43	eP	32 47.40	-0.7
	1.0s		16.00nm		4.9mb
GRR	78.61	43	eP	32 48.40	-0.4
	1.0s		20.00nm		5.0mb
TIC	78.63	85	P	32 49.44	-0.1
	0.7s		7.50nm		4.8mb
LIC	78.68	86	P	32 49.86	0.0
	0.6s		14.00nm		5.1mb
FLN	78.84	42	eP	32 49.60	-0.4
	1.2s		17.85nm		4.9mb
Z	21s		0.85um		5.1Msz
KIC	78.94	85	P	32 51.22	-0.1
	0.7s		11.00nm		4.9mb
LDF	79.09	42	eP	32 50.80	-0.6
	0.9s		14.75nm		4.9mb
MFF	79.16	44	eP	32 51.10	-0.7
	0.9s		9.85nm		4.7mb
EPF	79.70	48	eP	32 54.40	-0.5
	1.0s		15.00nm		4.9mb
LFF	79.87	46	eP	32 55.70	0.0
	0.9s		11.45nm		4.8mb
LPO	80.20	46	eP	32 57.40	-0.1
	1.0s		20.00nm		5.0mb
LSF	80.34	45	eP	32 58.10	-0.1
	1.0s		6.00nm		4.5mb
RJF	80.39	46	eP	32 58.30	-0.2
	1.2s		17.85nm		4.9mb
Z	21s		0.70um		5.0Msz
TCF	80.80	45	eP	32 59.80	-0.9
	1.0s		9.00nm		4.7mb
CAF	80.81	46	eP	33 00.60	-0.1
	1.1s		12.20nm		4.7mb
MAF	81.06	45	eP	33 01.50	-0.5
	1.1s		13.45nm		4.8mb
BGF	81.22	44	eP	33 02.20	-0.6
	0.8s		9.40nm		4.8mb
AVF	81.55	44	eP	33 03.50	-1.0
	1.1s		8.55nm		4.6mb
SSF	81.63	44	eP	33 03.80	-1.1
	1.0s		8.00nm		4.7mb
LOR	81.85	43	eP	33 05.40	-0.7
	1.2s		13.40nm		4.8mb
Z	20s		0.90um		5.1Msz
SMF	81.90	44	eP	33 05.20	-1.1
	1.0s		7.00nm		4.6mb
DOU	82.06	41	P	33 06.80	-0.3
ENN	82.83	40	eP	33 11.50	0.5
	1.0s		16.00nm		5.0mb
WTS	83.24	38	eP	33 13.50	0.4
	0.8s		10.00nm		4.9mb

HAU	83.44	43	eP	33 13.80	-0.5
	1.1s		9.75nm		4.7mb
Z	20s		0.80um		5.1Msz
BSF	83.76	43	eP	33 15.10	-0.9
	1.0s		8.00nm		4.7mb
NB2	84.33	29	P	33 17.90	-0.6
	0.8s		4.70nm		4.6mb
MMK	84.80	44	ePd	33 22.70	1.2
ZLA	84.88	43	ePd	33 21.60	0.0
SLE	84.90	43	ePd	33 21.70	0.0
LLS	85.38	43	ePd	33 24.80	0.5
TMA	85.42	44	ePd	33 24.60	0.1
SAX	85.56	43	ePd	33 25.60	0.3
VDL	85.77	44	ePd	33 26.70	0.5
OSS	86.19	43	ePd	33 28.60	0.3
GRF	86.36	40	eP	33 29.30	0.5
Z	21s		0.40um		4.8Msz
MOX	86.43	39	e(P)	33 31.00	1.8
CLL	87.16	39	iPd	33 32.80	0.2
	1.3s		17.00nm		5.1mb
KTK1	87.22	20	iP	33 45.21	12.5X
WET	87.53	41	eP	33 34.50	0.0
BRG	87.83	39	eP	33 35.70	-0.2
	1.8s		21.00nm		5.1mb
			e	33 45.30	
KHC	87.98	41	P	33 36.60	-0.1
Z	20s		0.60um		5.0Msz
E	20s		0.50um		
ZST	90.47	41	eP	33 50.20	1.8
WB5	141.14	250	ePKP	40 13.00	-5.3X
WRA	141.15	250	PKPd	40 18.40	0.1
	0.7s		1.40nm		
GBA	150.71	38	PKPc	40 38.00	4.0X
	1.0s		6.00nm		

S.D. = 1.1 on 72 of 79 obs.

? AUG 30, 1990 22h 33m 54.95±5.13s
10.595 N ±32.1km 62.873 W ±35.1km
DEPTH = 16.7 ±8.2 km
NEAR COAST OF VENEZUELA (97)
MD 4.0 (TRN).

TCE	1.11	85	eP	34 16.96	1.7
			eS	34 30.50	
TRN	1.45	88	eP	34 20.65	0.3
			eS	34 26.52	
TBH	1.78	93	eP	34 24.99	-0.2
			eS	34 43.72	
TPR	2.14	74	eP	34 29.58	-0.9
			eS	34 51.88	
BOT	2.19	75	eP	34 29.77	-1.4
			eS	34 52.78	
SVB	3.10	31	eP	34 44.23	0.2
			eS	35 19.75	
SLB	3.68	29	eP	34 52.33	0.0
			eS	35 33.87	
BBL	5.08	15	eP	35 12.00	-0.2
PAG	5.53	12	eP	35 18.50	-0.1
NEV	6.51	3	eP	35 33.00	0.6

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

? AUG 30, 1990 22h 42m 22.40±9.02s
18.764 N ±39.7km 67.939 W ±61.2km
DEPTH = 10.0km (geophysicist)
MONA PASSAGE (89)

MCP	0.86	113	P	42 38.70	-0.2
MGP	1.10	133	P	42 43.00	-0.1
			S	43 03.60	
LRS	1.14	114	P	42 44.00	0.3
			S	43 01.70	
PORP	1.42	120	P	42 48.50	0.2
CPD	2.85	110	P	42 57.20	-0.2

S.D. = 0.3 on 5 of 5 obs.

AUG 31, 1990 00h 13m 56.84±0.96s
12.006 N ±3.7km 140.616 E ±4.2km
DEPTH = 52.0 ±8.9 km
5.3mb (22 obs.) 5.1Msz (5 obs.)
WEST CAROLINE ISLANDS (209)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 30C
Centroid Location:
Origin Time 00:13:53.4 0.5
Lat 12.01N 0.04 Lon 140.67E 0.05
Dep 15.0 FIX Half-duration 2.0

Moment Tensor; Scale 10**17 Nm			WARB			NB2		
Mrr=-1.70 0.06	Mtt= 0.72 0.07		40.32 200 eP	21 31.50 0.5		96.99 338 P	27 25.90 1.8	
Mff= 0.98 0.08	Mrt= 0.81 0.23		0.5s 27.00nm	5.3mb		0.8s 1.70nm	4.6mb	
Mrf= 1.19 0.22	Mtf= 0.81 0.07		BDT 40.54 282 eP	21 32.50 -0.4		KSP 100.95 328 ePdiff27	41.00 -1.0	
Principal Axes:			CHG 40.67 285 eP	21 35.00 1.0		ALQ 101.26 50 ePdiff27	49.00 5.0X	
T Val= 2.20	Ptg=20	Azm=309	LZH 40.88 312 Pd	21 35.60 -0.2		BRG 102.14 329 e(Pdiff27	50.00 2.8X	
N 0.04	3	218	2.0s 82.00nm	5.1mb			32 05.10	
P -2.24	70	120	Z 25s 4.90um	5.3mszx		SQTA 105.79 327 ePKP	32 31.00 14.5X	
Best Double Couple:Ma=2.2*10**17			E 12s 1.60um			2.0s 41.10nm		
NP1:Strike= 44 Dip=25 Slip= -83			SP	21 50.00		BCAO 120.15 282 iPKPd	32 46.20 1.6	
NP2: 216 65 -93			PP	23 10.00		0.5s 4.00nm		
			S	27 37.00		id	34 13.00	
GUMO 4.43 69 eP	15 03.00 -0.2		BRS 40.90 163 iPc	21 36.00 0.2		TACH 144.04 132 ePKP	33 27.00 -1.8	
PJG 4.43 69 eP	15 03.00 -0.2		PPi 41.80 256 eP	21 42.50 -0.8		SAN 144.34 132 ePKP	33 27.50 -1.9	
GUA 4.46 70 ePc	15 03.40 -0.2		DZM 42.29 143 iPd	21 48.10 0.8		PCH 144.37 132 ePKP	33 29.00 -0.5	
0.7s 1435.62nm			PSI 42.31 261 eP	21 46.00 -1.5		PEL 144.47 131 iPKPc	33 28.50 -1.1	
eS	15 58.30		0.5s 69.30nm	5.6mb		1.0s 50.00nm		
DAV 15.61 253 eP	17 36.00 0.8		STK 43.65 179 iPd	21 57.90 -0.2		FCH 144.67 132 ePKP	33 29.50 -0.8	
RAB 19.77 144 eP	18 28.00 2.4		1.0s 24.00nm	4.9mb		MDZ 145.94 132 ePKP	33 33.50 1.3	
eS	21 52.00		e	23 46.00		ARE 148.59 102 ePKP	33 47.00 9.9X	
PMG 22.24 163 eP	18 52.00 1.3		eS	28 27.30		ZOBO 151.82 102 PKP	33 44.00 1.7	
MAT 24.53 355 eP	19 11.00 -1.8		eScS	31 59.20		1.2s 32.09nm		
0.8s 5.97nm	4.2mb X		GTA 45.21 314 P	22 10.60 -0.3		LR	24 20.00	
eS	23 34.00		1.2s 60.00nm	5.3mb		LPB 151.82 103 PKP	33 47.00 4.9X	
KKM 24.81 258 ePc	19 16.50 0.7		Z 28s 4.20um	5.2mszx		CNCB 151.91 103 PKP	33 50.20 7.8X	
SSE 26.14 320 Pc	19 29.00 1.1		E 12s 1.90um			CCH 153.59 105 PKP	33 56.50 12.0X	
Z 20s 4.60um	5.0msz		S	28 46.00		S.D. = 1.0 on 91 of 105 obs.		
MTN 26.42 201 eP	19 29.30 -1.4		COOL 46.57 203 eP	22 21.00 -0.5		* AUG 31, 1990 01h 01m 36.75± 0.98s		
0.6s 35.00nm	5.1mb		ADE 46.75 182 iPd	22 23.60 0.8		3.079 S ±12.1km 131.115 E ±16.6km		
GZH 28.19 297 eP	19 50.00 3.3X		0.5s 38.03nm	5.6mb		DEPTH = 33.0km (normal)		
Z 30s 5.30um	5.0mszx		MRWA 47.38 210 eP	22 27.00 -0.9		4.6mb (4 obs.)		
KNA 29.97 203 eP	20 00.00 -1.9		0.5s 14.00nm	5.2mb		WEST IRIAN REGION (196)		
QIZ 30.43 287 eP	20 08.10 1.3		CAN 47.73 171 eP	22 31.00 0.4		AAI 2.98 258 eP	02 23.90 1.1	
E 15s 3.10um			BAL 48.20 208 eP	22 33.00 -1.3		eS	03 25.00	
TIA 32.09 323 eP	20 20.00 -1.2		KLB 48.57 206 eP	22 36.00 -1.1		MTN 9.70 180 iPc	03 55.30 -1.9	
Z 27s 3.50um	4.9mszx		SMY 48.68 27 eP	22 38.70 1.1		0.3s 23.00nm	5.9mb X	
eS	25 34.00		BFD 48.95 178 eP	22 42.00 2.1		eS	05 35.00	
CTA 32.37 170 iPd	20 24.00 0.2		TOO 49.52 175 ePd	22 46.00 1.6		QIS 19.24 155 iPd	06 02.40 1.1	
1.1s 151.90nm	5.7mb		MUN 49.59 207 eP	22 44.00 -0.9		0.2s 4.00nm	4.3mb	
iS	25 41.00		NWAO 49.95 206 eP	22 48.00 0.3		ASPA 20.64 173 iPc	06 16.30 0.0	
QIS 32.37 182 iPd	20 23.00 -0.8		ADK 52.56 32 eP	23 06.50 -0.7		0.6s 96.00nm	5.3mb	
1.7s 106.00nm	5.4mb		1.6s 136.10nm	5.7mb		eS	09 55.00	
SNY 33.23 336 eP	20 34.00 3.0X		GUN 53.41 296 P	23 14.60 0.3		WARB 23.37 190 eP	06 43.00 -0.4	
Z 23s 5.70um	5.2mszx		PKI 53.79 295 P	23 16.60 -0.5		0.4s 4.00nm	4.3mb	
N 14s 2.10um			KKN 53.92 296 P	23 17.70 -0.2		STK 30.30 162 eP	07 48.60 1.2	
E 16s 3.60um			DMN 54.06 295 P	23 18.80 -0.2		1.6s 35.00nm	4.9mb	
CN2 34.28 340 P	20 39.80 -0.3		GKN 54.51 296 P	23 21.40 -0.8		PKI 53.52 308 P	10 57.00 -0.1	
Z 19s 4.00um	5.2msz		WMO 55.28 315 P	23 28.00 0.6		KKN 53.73 308 P	10 57.40 -1.1	
N 14s 1.60um			Z 20s 2.50um	5.3msz		DMN 53.78 308 P	10 59.20 0.3	
E 14s 0.70um			PP	23 42.00		GKN 54.33 308 P	11 02.60 -0.2	
ePP	20 48.00		PcP	24 23.00		S.D. = 1.1 on 10 of 10 obs.		
GYA 35.00 299 iPc	20 48.60 1.9		HYB 60.06 283 eP	24 02.00 0.7		& AUG 31, 1990 01h 05m 49.00s		
1.6s 100.00nm	5.5mb		TCW 61.40 152 eP	24 09.00 -0.9		33.240 N 116.050 W		
Z 22s 2.10um	4.8msz		KIW 61.42 151 P	24 09.60 -0.5		DEPTH = 9.0km		
BJI 35.29 327 eP	20 47.50 -1.2		GBA 61.48 279 Pd	24 12.00 1.1		SOUTHERN CALIFORNIA (43)		
4.0s 41.00nm	5.7mb X		1.4s 42.90nm	5.4mb		<PAS-P>. ML 3.9 (PAS).		
Z 32s 4.90um	5.1mszx		MNG 61.51 150 P	24 09.30 -1.4		IKP 0.59 185 iPc	06 00.00 -0.9	
N 15s 2.10um			LTZ 61.75 154 P	24 12.40 0.0		PLM 0.69 280 iPc	06 02.10 -0.8	
eS	26 13.00		WDW 61.78 151 P	24 11.00 -1.5		BAR 0.76 223 iPd	06 03.00 -1.0	
TIY 35.92 320 eP	20 53.20 -1.0		POO 64.44 285 iPc	24 30.50 -0.1		TPC 0.86 0 iPd	06 04.80 -1.0	
Z 22s 2.90um	5.0msz		SVW 67.00 28 eP	24 46.10 -0.2		CPE 0.95 248 ePc	06 05.90 -1.3	
ASPA 36.06 190 eP	20 55.50 0.1		IMA 69.33 23 ePd	25 00.20 -0.6		GLA 1.04 100 iPc	06 06.80 -2.0	
0.6s 41.00nm	5.5mb		1.6s 38.80nm	5.1mb		PEC 1.13 305 eP	06 08.60 -1.7	
Z 16s 2.27um	5.0mszx		FBA 71.41 25 eP	25 12.20 -1.1		ABL 3.08 302 eP	06 39.30 0.3	
eS	26 22.00		TOA 71.62 28 eP	25 14.80 0.1		BCH 3.86 301 eP	06 50.00 0.0	
eScS	31 15.20		MAIO 75.89 305 iPd	25 41.10 1.1		KVN 6.03 345 eP	07 18.00 -1.9	
LR	38 50.60		0.9s 24.30nm	5.1mb		10 obs. associated		
XAN 36.25 312 P	20 57.00 0.0		eS	35 28.00		* AUG 31, 1990 01h 17m 46.23± 0.86s		
LOE 37.95 283 eP	21 13.00 1.6		INK 77.40 22 eP	25 47.00 -0.6		43.754 N ± 9.2km 10.889 E ± 5.2km		
KMI 38.06 295 Pc	21 15.50 2.9X		MBC 80.80 14 eP	26 05.50 -0.4		DEPTH = 10.0km (geophysicist)		
Z 26s 4.40um	5.2mszx		1.3s 54.00nm	5.3mb		CENTRAL ITALY (381)		
HHC 38.42 324 P	21 15.00 -0.2		YKA 86.15 27 eP	26 33.30 -0.1		PII 0.27 263 P	17 51.80 0.0	
Z 14s 2.40um	5.2mszx		0.9s 7.10nm	4.9mb		eSg	17 55.50	
N 10s 0.70um			KEV 86.71 341 iP	26 39.60 3.5X		BDI 0.37 326 P	17 53.70 -0.2	
PP	22 53.00		PNT 87.27 40 eP	26 40.00 0.8		eSg	17 59.50	
S	27 10.00		0.6s 5.00nm	4.9mb		MME 0.46 343 P	17 56.00 0.4	
QLP 38.52 175 iPd	21 16.00 0.0		WDC 87.41 49 eP	26 41.00 1.0		eSg	18 03.20	
CD2 38.88 305 eP	21 20.00 0.9		SOD 87.90 339 iP	26 42.50 0.7		PGD 0.61 78 P	17 58.20 -0.5	
BTO 39.17 322 eP	21 21.50 0.0		ORV 88.43 50 eP	26 45.40 0.5		eSg	18 07.20	
N 13s 1.70um			CMB 89.66 51 eP	26 51.50 0.7		SFI 0.72 76 P	18 00.30 0.0	
E 13s 1.50um			SUF 90.19 335 iP	26 52.20 -0.5		eSg	18 11.00	
SP	21 33.50		FRI 90.45 52 eP	26 56.00 1.6				
NST 39.44 280 eP	21 28.00 4.1X		NUR 91.85 334 eP	26 59.00 -1.4				
SNG 39.70 267 eP	21 37.90 11.8X		SES 92.19 37 eP	27 04.00 1.7				
1.5s 227.78nm			LRM 92.95 42 eP	27 06.90 0.8				
NNT 39.92 275 eP	21 31.30 3.4X		FFC 95.33 31 eP	27 16.00 -0.6				
			1.2s 16.00nm	5.4mb				

31d 01h

CRE 0.78 99 P 18 02.00 0.5
eSg 18 13.40
S.D. = 0.5 on 6 of 6 obs.

& AUG 31, 1990 01h 23m 32.20s
33.250 N 116.050 W
DEPTH = 8.0km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.0 (PAS).

IKP	0.60	185	ePc	23	43.10	-1.2
PLM	0.69	279	iPc	23	45.20	-0.9
BAR	0.77	223	iPc	23	46.20	-1.3
TPC	0.85	0	iPd	23	48.10	-0.8
GLA	1.05	101	ePc	23	50.00	-2.1
PEC	1.13	305	eP	23	52.70	-0.8
ABL	3.08	302	eP	24	24.50	2.3
BCH	3.86	301	eP	24	34.50	1.2

8 obs. associated

? AUG 31, 1990 01h 58m 37.22±1.72s
42.054 N ±16.8km 20.457 E ±16.0km
DEPTH = 33.0km (normal)
YUGOSLAVIA (383)
ML 1.9 (SKO).

KKS	0.04	303	ePg	58	42.70	0.0
PUK	0.42	269	iPg	58	46.70	0.1
LACI	0.70	233	ePg	58	50.50	-0.1
OHR	0.98	165	ePg	58	54.70	0.0

eSg 59 07.50
S.D. = 0.1 on 4 of 4 obs.

% AUG 31, 1990 03h 07m 09.51±0.58s
39.688 N ±5.3km 28.861 E ±5.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

DST	0.20	245	iPg	07	13.10	-0.8
KCT	0.68	326	iPg	07	22.60	-0.4
IZI	0.80	36	iPg	07	24.60	-0.5
YLV	0.96	24	iPg	07	27.60	-0.3
BNT	0.98	313	ePn	07	29.10	0.9
ALT	1.16	123	ePn	07	31.00	-0.2
KGT	1.42	303	ePn	07	35.10	-0.2
KHL	1.46	159	ePn	07	36.70	0.8
CTT	1.49	347	ePn	07	37.10	0.7

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

? AUG 31, 1990 03h 24m 31.56±0.87s
6.984 S ±17.5km 106.370 E ±19.4km
DEPTH = 33.0km (normal)
4.9mb (4 obs.)

JAVA (277)

KGM	9.44	341	eP	26	49.00	0.6
NANU	17.83	151	eP	28	47.00	8.2X
MBL	19.19	139	eP	29	00.00	4.5X
WB5	30.03	118	eP	30	39.10	-0.9
WRA	30.03	118	Pc	30	38.80	-1.2

0.5s 2.00nm 4.2mb
ASPA 31.21 125 eP 30 50.40 0.1
0.4s 19.00nm 5.3mb

STK	41.12	132	iPc	32	15.70	1.5
CAN	48.18	132	e(P)	33	11.30	0.3
MAW	67.20	197	iP	35	25.90	1.6
BUL	76.16	251	iPd	36	16.90	-2.0

0.9s 4.20nm 4.4mb

PPD	143.81	217	ePKP	44	01.40	-4.6X
			i	44	02.20	

S.D. = 1.5 on 8 of 11 obs.

& AUG 31, 1990 03h 24m 53.90s
33.240 N 116.050 W
DEPTH = 6.0km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.0 (PAS).

IKP	0.59	185	eP	25	04.90	-0.9
PLM	0.69	280	iPc	25	07.00	-0.7
BAR	0.76	223	eP	25	07.90	-1.3
TPC	0.86	0	iPd	25	09.70	-1.2
GLA	1.04	100	ePc	25	11.60	-2.4
PEC	1.13	305	iPc	25	14.60	-0.9

6 obs. associated

& AUG 31, 1990 03h 38m 00.00s
33.250 N 116.050 W
DEPTH = 8.0km
3.5mb (1 obs.)
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 4.2 (PAS). Felt (IV)
at Borrego Springs, El Centro
and Mount Laguna; (III) at
Cothel City, Julian, Mecca,
Morongo Valley and Romona.

IKP	0.60	185	iPc	38	11.00	-1.1
PLM	0.69	279	iPc	38	13.00	-0.9
BAR	0.77	223	iPd	38	14.00	-1.3
TPC	0.85	0	iPd	38	15.00	-0.9
CPE	0.96	248	iPc	38	16.90	-1.5
GLA	1.05	101	iPc	38	18.00	-1.9
PEC	1.13	305	iPc	38	19.70	-1.6
GSC	2.14	343	iPd	38	34.30	-2.3
ABL	3.08	302	eP	38	40.40	-1.6
BCH	3.86	301	eP	38	59.00	-2.1
PRI	4.77	308	eP	39	14.30	0.3
FRI	4.79	322	eP	39	15.00	0.9
			eS	40	24.00	
CMB	5.94	325	eP	39	29.00	-1.4
			eS	41	00.30	
KVN	6.02	345	eP	39	29.40	-2.3
MSU	6.12	30	eP	39	31.60	-1.5
ALO	8.13	75	eP	39	58.00	-3.4
ANMO	8.14	75	P	39	55.40	-6.0
TUL	16.89	75	eP	42	02.20	3.9
	1.0s	4.30nm			3.5mb	

18 obs. associated

& AUG 31, 1990 03h 56m 18.80s
33.240 N 116.060 W
DEPTH = 3.0km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.1 (PAS).

IKP	0.59	184	ePc	56	30.00	-0.6
PLM	0.68	280	ePc	56	31.90	-0.5
BAR	0.76	223	ePd	56	33.00	-1.0
TPC	0.86	1	iPd	56	34.80	-1.3
CPE	0.94	248	eP	56	36.00	-1.5
GLA	1.05	100	eP	56	36.60	-2.7
PEC	1.13	306	iP	56	39.80	-0.8

7 obs. associated

AUG 31, 1990 04h 06m 00.69±0.79s
37.056 N ±5.1km 141.295 E ±7.6km
DEPTH = 62.1 ±5.7 km
4.3mb (3 obs.)

NEAR EAST COAST OF HONSHU, JAPAN(22B)

KAKJ	1.24	227	iPd	06	21.60	-0.5
			S	06	35.20	
YAMJ	1.50	319	P	06	25.30	-0.4
NIJ	1.84	276	iPd	06	30.00	-0.5
OFUJ	2.04	8	P	06	33.50	0.3
			eS	06	57.30	
CHJJ	2.11	242	P	06	33.50	-0.7
			S	06	56.30	
MAT	2.53	259	iPd	06	40.30	0.2
MTMJ	2.84	262	P	06	44.70	0.1
IIDJ	3.15	241	P	06	50.00	1.0
			eS	07	23.90	
AOMJ	3.57	349	eP	06	55.20	0.4
TSRJ	4.55	252	P	07	09.20	0.7
GUN	47.06	276	P	14	28.80	0.4
PKI	47.58	275	P	14	32.00	-0.5
KKN	47.59	276	P	14	32.40	0.0
DMN	47.81	276	P	14	34.00	-0.2
GKN	48.01	276	P	14	35.60	0.0
INK	54.41	27	eP	15	23.00	-0.1
WB5	57.00	188	eP	15	42.40	0.1
WRA	57.07	188	Pd	15	42.70	0.0
	0.5s	0.70nm			4.0mb	
GBA	61.12	265	P	16	11.00	0.1
	1.0s	8.40nm			4.8mb	
KEV	63.39	339	eP	16	39.00	13.7X
SUF	67.92	333	eP	16	54.00	-0.4
NB2	74.13	337	P	17	31.70	-0.1
	0.7s	2.10nm			4.2mb	
ZOBO	146.75	59	PKP	25	40.00	3.5X

LPB 146.95 60 ePKP 25 42.00 5.4X
CNCB 147.23 60 PKP 25 42.80 5.6X
SIV 151.14 49 iPKP 25 50.80 8.2X
S.D. = 0.5 on 21 of 26 obs.

& AUG 31, 1990 04h 24m 28.20s
33.250 N 116.050 W
DEPTH = 7.0km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.3 (PAS).

IKP	0.60	185	iPc	24	39.30	-1.0
PLM	0.69	279	iPc	24	41.20	-0.8
BAR	0.77	223	iPd	24	42.30	-1.2
TPC	0.85	0	iPd	24	44.00	-1.0
CPE	0.96	248	ePc	24	45.20	-1.5
GLA	1.05	101	eP	24	46.00	-2.2
PEC	1.13	305	eP	24	47.50	-2.1
ABL	3.08	302	eP	25	16.00	-2.3
BCH	3.86	301	eP	25	26.00	-3.4
KVN	6.02	345	eP	26	01.00	1.0

10 obs. associated

? AUG 31, 1990 05h 49m 05.96±1.02s
16.201 S ±38.6km 69.227 W ±18.5km
DEPTH = 205.6 ±8.3 km
4.0mb (2 obs.)
PERU-BOLIVIA BORDER REGION (118)

ZOBO	1.06	94	iPd	49	38.00	0.3
LPB	1.13	107	iPd	49	38.10	0.1
			i	50	02.00	
CNCB	1.34	117	iPd	49	39.20	-0.6
			i	52	23.00	
CCH	3.18	112	iPd	50	00.00	2.0
			i	50	39.30	
SIV	7.84	90	P	50	57.40	-0.9
PT10	8.56	298	i(P)	51	06.00	-1.4
			i(S)	52	35.00	
PPD	17.89	112	eP	53	00.90	-2.0
			i	53	02.90	
			e	53	03.80	
			e	53	12.10	
			e	53	17.50	
VAO	22.02	111	(P)	53	45.00	0.5
LIC	67.30	76	P	59	41.60	0.6
KIC	67.62	76	Pc	59	43.00	0.0
LKO	67.97	72	Pc	59	43.82	-1.4
	0.4s	4.50nm			4.6mb	
KVN	71.45	322	iP	00	07.50	1.4
YKA	86.11	341	eP	01	25.50	1.1
	0.4s	0.30nm			3.5mb	

S.D. = 1.4 on 13 of 13 obs.

* AUG 31, 1990 05h 55m 41.37±0.64s
12.053 N ±10.5km 140.427 E ±9.3km
DEPTH = 33.0km (normal)
4.5mb (4 obs.)

WEST CAROLINE ISLANDS (209)

GUMD	4.59	70	eP	56	50.00	-0.3
	0.5s	114.29nm				
PJG	4.59	70	eP	56	50.30	0.0
GUA	4.62	71	eP	56	50.90	0.2
	0.6s	309.33nm				
WB5	32.29	191	eP	02	09.00	-0.5
WRA	32.35	191	Pd	02	09.20	-0.9
	0.6s	4.00nm			4.5mb	
ASPA	36.07	190	eP	02	42.90	0.9
	0.5s	6.00nm			4.8mb	
DZM	42.44	143	iPc	03	36.00	0.9
STK	43.70	179	iPd	03	44.80	-0.2
	1.8s	17.00nm			4.5mb	
GUN	53.22	296	P	05	00.00	0.5
YKA	86.19	27	eP	08	20.00	-0.4
	0.4s	0.60nm			4.2mb	
ZOBO	152.01	102	PKP	15	37.00	7.4X

S.D. = 0.7 on 10 of 11 obs.

AUG 31, 1990 07h 00m 02.71±0.91s
39.676 N ±6.2km 143.247 E ±5.2km
DEPTH = 48.3 ±7.6 km
4.9mb (35 obs.) 4.3msz (4 obs.)
OFF EAST COAST OF HONSHU, JAPAN (229)

OFUJ	1.36	245	P	00	25.70	0.1
			eS	00	48.50	

AOMJ 2.37 293 eP 00 39.70 -0.2				BW06 74.79 47 P 11 39.00 -0.8				DEPTH = 33.0km (normal)			
YAMJ 2.92 240 P 00 48.00 0.3				1.0s 3.33nm 4.2mb				4.8mb (12 obs.) 4.7Msz (3 obs.)			
MAT 5.06 233 iPc 01 18.30 0.3				DAU 75.34 50 eP 11 48.00 5.0X				WEST CAROLINE ISLANDS (209)			
1.1s 120.25nm 5.1mb				KRA 77.70 327 eP 11 56.40 0.8				GUMO 4.52 68 eP 15 14.30 -0.2			
MDJ 11.27 300 Pd 02 22.00 0.4				KSP 78.60 329 iPc 12 01.00 0.4				PJG 4.52 68 eP 15 14.30 -0.2			
Z 16s 1.60um				BRG 79.50 330 e(P) 12 06.20 0.8				GUA 4.54 69 iPc 15 14.20 -0.7			
E 13s 1.50um				1.0s 10.00nm 4.7mb				0.8s 441.79nm			
CN2 13.91 293 P 03 05.00 0.1				CLL 79.51 331 iPd 12 21.80 0.4				eS 16 11.70			
Z 17s 1.20um				PRU 79.97 329 P 12 05.90 0.4				DAV 15.53 253 eP 17 44.00 -0.9			
N 14s 1.10um				e 12 21.00 0.5				OCF 19.15 280 eP 18 32.00 1.9			
E 14s 0.40um				e 12 08.50 0.5				RAB 19.73 144 e(P) 18 38.00 1.4			
PP 03 26.00				MOX 80.56 331 eP 12 14.00 0.8				BAG 19.88 285 eP 18 36.00 -2.3			
eS 05 52.00				KHC 81.03 329 P 12 14.50 0.8				PMG 22.17 163 eP 19 03.00 1.5			
DL2 16.75 274 eP 03 56.50 1.1				GRF 81.49 331 ePc 12 17.20 1.2				SSE 26.17 320 Pd 19 41.10 1.2			
1.0s 100.00nm 4.9mb				0.8s 13.00nm 5.0mb				1.0s 39.00nm 5.0mb			
Z 18s 0.60um 4.2Msz				Z 18s 0.10um 4.2Msz				WB5 32.17 191 eP 20 32.30 -1.4			
SSE 19.88 251 P 04 39.00 6.3X				ANMO 81.80 51 P 12 23.00 4.9X				WRA 32.24 191 Pd 20 32.40 -1.9			
1.2s 46.00nm 4.7mb				0.9s 3.99nm 4.4mb				0.7s 12.40nm 4.9mb			
BJI 20.76 280 eP 04 38.50 -3.3X				ALQ 81.80 51 eP 12 18.00 -0.2				CTA 32.29 170 iPd 20 34.00 -0.7			
Z 15s 0.93um 4.3MszX				1.0s 5.50nm 4.5mb				1.0s 17.00nm 4.9mb			
TIA 20.86 269 eP 04 39.80 -3.1X				VAY 83.01 319 eP 12 25.30 1.3				i 20 45.00			
Z 14s 1.50um 4.5MszX				SKO 83.09 320 iP 12 25.10 0.7				SNY 33.30 337 eP 20 42.00 -1.3			
TIY 24.07 275 eP 05 17.40 2.8X				OHR 84.05 320 eP 12 28.50 -0.9				Z 18s 1.40um 4.7Msz			
Z 16s 1.10um 4.4MszX				LOR 86.18 334 eP 12 39.70 -0.2				eS 26 00.00			
HHC 24.14 283 eP 05 14.00 -1.3				Z 21s 0.13um 4.3Msz				BJI 35.34 327 eP 21 01.00 0.2			
WHN 25.25 258 iPd 05 27.00 1.3				LBF 86.38 333 eP 12 40.50 -0.4				Z 32s 1.13um 4.4MszX			
1.0s 100.00nm 5.3mb				0.9s 8.20nm 5.0mb				ASPA 35.95 190 eP 21 06.30 0.0			
BTO 25.34 283 eP 05 25.00 -1.7				SSF 86.48 334 eP 12 41.30 -0.1				0.4s 12.00nm 5.2mb			
N 13s 0.50um				0.9s 9.00nm 5.0mb				Z 16s 0.52um 4.4MszX			
E 15s 1.20um				LPL 86.65 331 eP 12 42.50 0.0				TIY 35.96 320 eP 21 05.60 -0.7			
XAN 27.92 269 P 05 49.30 -1.1				1.0s 8.00nm 4.9mb				Z 20s 1.10um 4.6Msz			
LZH 31.13 276 Pc 06 18.30 -0.8				LPG 86.66 331 eP 12 42.70 0.1				S 26 44.00			
1.5s 48.00nm 5.0mb				1.2s 13.40nm 5.0mb				XAN 36.27 313 P 21 09.10 0.2			
Z 15s 1.10um 4.6MszX				GRR 86.72 337 eP 12 42.50 0.0				KMI 38.05 296 Pd 21 26.00 1.8			
E 13s 0.90um				0.9s 13.10nm 5.2mb				CD2 38.89 305 eP 21 30.00 -0.9			
GYA 33.14 258 P 06 36.20 -0.4				SMF 86.72 333 eP 12 42.60 0.0				BTO 39.21 322 eP 21 33.00 -0.6			
CD2 33.18 267 P 06 36.00 -0.8				1.3s 21.65nm 5.2mb				N 13s 0.40um			
GTA 33.25 284 P 06 37.60 0.1				AVF 86.77 334 eP 12 42.90 0.2				E 13s 0.50um			
1.0s 20.00nm 4.9mb				0.9s 15.55nm 5.2mb				ePP 21 42.00			
Z 18s 1.50um 4.7Msz				LPF 87.09 337 eP 12 44.40 0.1				WARB 40.21 200 eP 21 42.00 0.1			
E 15s 0.80um				1.2s 17.85nm 5.2mb				0.6s 19.00nm 5.0mb			
KMI 36.83 259 Pd 07 08.50 0.3				MAF 87.53 334 eP 12 47.00 0.5				CHG 40.64 285 eP 21 47.10 1.6			
WMO 41.00 295 P 07 43.00 0.5				1.2s 14.90nm 5.1mb				BRS 40.83 163 iPd 21 46.30 -0.6			
CHG 43.36 254 eP 08 03.00 1.0				TCF 87.59 334 eP 12 47.20 0.4				i 21 57.50			
PMR 45.66 38 P 08 21.00 1.1				1.0s 6.00nm 4.8mb				LZH 40.91 312 P 21 48.40 0.7			
FBA 46.11 34 eP 08 26.90 3.5X				ZOBO 144.09 58 PKP 19 43.00 7.3X				1.5s 25.00nm 4.7mb			
GUM 48.36 274 P 08 42.50 0.4				CNCB 144.58 59 ePKP 19 36.00 -0.5				Z 24s 1.20um 4.7MszX			
0.8s 40.00nm 5.5mb				CCH 146.20 57 ePKP 19 47.00 8.1X				E 13s 0.40um			
KKN 48.88 275 P 08 46.40 0.5				SIV 148.27 49 PKP 19 48.00 6.1X				DZM 42.25 143 iPc 21 59.00 0.3			
PKI 48.89 274 P 08 46.20 0.1				S.D. = 0.8 on 63 of 77 obs.				CMS 43.44 173 eP 22 08.00 -0.2			
DMN 49.11 274 P 08 47.80 0.1				* AUG 31, 1990 08h 05m 12.69± 0.64s				0.6s 10.00nm 4.8mb			
GKN 49.27 275 P 08 49.00 0.2				3.881 S ± 10.8km 127.644 E ± 13.6km				STK 43.55 179 iPc 22 08.40 -0.7			
1.2s 62.00nm 5.5mb				DEPTH = 33.0km (normal)				1.0s 9.00nm 4.5mb			
INK 51.38 28 eP 09 03.00 -1.1				5.1mb (7 obs.)				FORR 44.17 195 eP 22 13.00 -1.1			
WB5 59.82 190 eP 10 04.80 -0.6				CERAM (272)				GTA 45.24 315 eP 22 21.60 -1.3			
WRA 59.89 190 Pc 10 05.20 -0.7				AAI 0.58 71 iPc 05 24.00 -0.5				Z 28s 20.00nm 5.1mb			
0.6s 2.00nm 4.4mb				MTN 9.55 159 eP 07 31.00 0.0				ADE 46.65 182 ePd 22 36.30 2.5			
YKA 60.81 31 eP 10 10.80 -0.9				0.4s 13.00nm 5.5mb				GUN 53.40 296 P 23 26.60 0.6			
1.3s 2.30nm 4.1mb				WB5 17.20 158 eP 09 09.90 -2.3				PKI 53.78 295 P 23 28.40 -0.4			
GBA 62.86 265 Pd 10 25.30 -0.8				WRA 17.25 158 Pc 09 10.50 -2.3				KKN 53.91 296 P 23 29.80 0.1			
1.2s 11.10nm 4.9mb				0.9s 5.90nm 3.7mb X				DMN 54.05 295 P 23 30.80 0.1			
SOD 63.09 337 iP 10 25.80 -1.2				OIS 20.26 146 eP 09 48.00 -0.2				GKN 54.50 296 P 23 34.00 0.1			
ASPA 63.61 190 eP 10 37.40 6.6X				0.7s 8.00nm 4.2mb				WMO 55.31 315 eP 23 38.00 -1.5			
PNT 65.29 46 eP 10 50.00 8.4X				ASPA 20.58 163 iPd 09 52.80 1.2				Z 20s 0.70um 4.7Msz			
0.8s 6.00nm 4.7mb				0.8s 22.00nm 4.6mb				GBA 61.44 279 Pc 24 22.10 -0.5			
SUF 66.27 333 iP 10 47.20 -0.4				STK 30.78 156 eP 11 28.50 1.0				0.7s 3.30nm 4.6mb			
0.5s 3.00nm 4.6mb				1.6s 27.00nm 4.8mb				MAIO 75.90 305 iPd 25 54.00 2.0			
NEW 67.25 46 P 10 53.00 -1.1				BWA 36.00 150 e(P) 12 15.00 2.2				0.9s 8.53nm 4.7mb			
1.0s 5.00nm 4.5mb				CAN 37.00 150 eP 12 23.00 1.8				INK 77.51 22 eP 26 01.00 0.8			
NUR 68.30 332 eP 11 13.00 12.6X				GUN 51.15 311 P 14 15.40 0.1				MBC 80.90 14 eP 26 20.50 2.0			
LBFM 68.33 54 P 11 03.00 1.8				0.4s 17.00nm 5.4mb				YKA 86.26 27 eP 26 43.80 -2.2			
ORV 69.59 55 eP 11 14.00 5.3X				PKI 51.33 310 P 14 16.30 -0.4				0.5s 1.10nm 4.3mb			
CMB 71.18 56 P 11 20.00 1.5				KKN 51.54 310 P 14 17.80 -0.3				SES 92.30 37 eP 27 23.00 8.2X			
1.0s 8.33nm 4.6mb				0.6s 17.00nm 5.2mb				LPB 151.86 103 ePKP 33 54.00 -0.4			
LRM 71.26 46 eP 11 18.80 -0.3				DMN 51.58 310 P 14 18.40 -0.1				e 34 27.00			
KVN 72.03 54 P 11 23.00 -0.7				GKN 52.14 310 P 14 22.40 -0.2				ZOBO 151.86 102 PKP 33 56.30 1.7			
HFS 72.27 336 eP 11 23.20 -1.3				0.5s 19.00nm 5.3mb				CNCB 151.94 103 PKP 34 01.00 6.3X			
0.9s 12.10nm 4.8mb				S.D. = 1.4 on 14 of 14 obs.				S.D. = 1.2 on 43 of 45 obs.			
Z 18s 0.17um 4.4Msz				AUG 31, 1990 08h 14m 06.58± 0.32s				% AUG 31, 1990 08h 23m 46.69± 0.85s			
NB2 72.30 338 P 11 24.10 -0.6				11.911 N ± 5.8km 140.559 E ± 5.8km				26.439 S ± 6.7km 27.522 E ± 9.6km			
0.9s 11.20nm 4.8mb				DEPTH = 5.0km (geophysicist)				REPUBLIC OF SOUTH AFRICA (584)			

31d 08h

ML 2.4 (PRE).

PRY	0.49	185	eP	23	56.50	0.0
			S	24	02.00	
BFS	0.80	235	eP	23	59.00	-3.8X
KSR	0.80	315	eP	24	03.50	0.7
			S	24	10.00	
SLR	0.98	44	eP	24	05.50	-0.4
SEK	1.88	177	eP	24	20.50	0.6
			S	24	44.50	
SWZ	2.10	249	eP	24	22.20	-0.9
	S.D. = 0.9	on		5 of	6 obs.	

? AUG 31, 1990 08h 35m 00.19±1.03s
 36.386 N ±10.4km 7.753 W ±32.7km
 DEPTH = 10.0km (geophysicist)
 STRAIT OF GIBRALTAR (385)
 MG 2.6 (PTO).

FIG	0.72	355	iPd	35	14.80	0.5
			iS	35	23.00	
MOE	2.18	348	eP	35	36.50	-0.6
			S	36	01.00	
IFR	3.58	142	iPn	35	57.00	-0.1
			iSn	36	34.00	
TIO	5.46	176	iPn	36	23.90	0.2
			iSn	37	23.00	
	S.D. = 0.8	on		4 of	4 obs.	

& AUG 31, 1990 08h 39m 29.14s
 62.734 N 150.770 W
 DEPTH = 89.8km
 2.8mb (1 obs.)
 CENTRAL ALASKA (1)
 <AGS-P>.

CUT	0.40	145	iP	39	43.14	-0.2
			eS	39	54.12	
HUR	0.57	64	iP	39	44.15	-0.6
			eS	39	54.99	
KTH	0.83	355	iP	39	47.27	0.0
SKT	0.84	205	iP	39	47.37	0.1
PWA	1.16	159	eP	39	51.05	0.0
SUA	1.28	179	iP	39	52.64	0.1
GHO	1.30	137	iP	39	52.61	-0.2
			eS	40	10.64	
MCK	1.30	39	iP	39	52.29	-0.5
PLRM	1.38	145	eP	39	53.42	-0.3
PMR	1.38	145	iPc	39	53.30	-0.4
SML	1.47	128	iP	39	54.53	-0.4
NCG	1.49	207	eP	39	55.26	0.0
CGLM	1.55	203	eP	39	55.87	-0.1
PMS	1.60	159	eP	39	56.30	-0.3
CRP	1.61	205	eP	39	57.02	0.1
BGL	1.66	208	eP	39	57.99	0.5
SPU	1.67	202	eP	39	57.39	-0.2
CKL	1.71	206	iP	39	58.42	0.3
SCM	1.85	118	eP	39	59.00	-0.9
NKA	2.01	187	eP	40	04.59	2.6
WRH	2.12	33	iP	40	02.29	-1.1
TOA	2.23	104	iPc	40	04.60	-0.4
SLKM	2.25	173	eP	40	05.44	0.2
RDT	2.30	201	eP	40	05.92	-0.1
CCB	2.33	33	iP	40	05.05	-1.3
HDA	2.39	44	iP	40	06.05	-1.1
TTA	2.41	277	iPc	40	07.60	0.1
DDM	2.46	62	eP	40	07.57	-0.6
FBA	2.54	30	iPd	40	08.20	-1.0
KLU	2.60	116	iP	40	08.24	-1.8
VZW	2.61	128	eP	40	08.28	-1.9
VLZ	2.64	125	eP	40	08.56	-2.0
GLM	2.71	32	eP	40	10.40	-1.2
NNL	2.71	186	eP	40	13.79	2.2
SEW	2.72	166	eP	40	11.33	-0.2
SVW	2.82	237	ePc	40	12.80	-0.2
BRK	2.98	181	eP	40	15.38	0.1
DOT	3.18	70	eP	40	17.18	-0.8
CNPM	3.23	184	eP	40	18.92	0.3
PDB	3.39	211	eP	40	20.78	0.0
GLB	3.52	109	eP	40	20.71	-2.0
IMA	3.58	341	iPc	40	23.00	-0.6
TMW	3.59	77	eP	40	22.21	-1.4
AUE	3.62	202	eP	40	24.61	0.7
AUH	3.62	202	eP	40	26.47	2.3
RAGM	3.75	126	eP	40	23.59	-2.2
HMT	3.94	125	eP	40	26.34	-2.1
KAIM	4.16	130	eP	40	27.79	-3.7

TGL	4.26	114	eP	40	30.52	-2.6
BALM	4.34	109	eP	40	31.37	-2.7
WAX	4.42	118	eP	40	32.58	-2.6
FYU	4.52	29	eP	40	35.14	-1.3
SNH	4.59	120	eP	40	35.14	-2.3
WRG	5.00	119	eP	40	41.27	-1.9
DWY	5.27	70	P	40	46.30	-0.6
INK	9.06	44	eP	41	37.00	-1.9
YKA	16.51	75	eP	43	13.70	-2.4
	0.5s		0.30nm		2.8mb	
	57 obs.		associated			

AUG 31, 1990 09h 34m 53.76±0.90s
 6.272 S ± 7.0km 147.917 E ± 6.8km
 DEPTH = 51.9 ± 8.2 km
 4.7mb (9 obs.)

EAST PAPUA NEW GUINEA REGION (207)

LAT	0.99	247	iPd	35	12.00	0.5
PMG	3.21	194	iPd	35	43.00	0.1
			eS	36	24.00	
MNDI	4.24	271	eP	36	03.00	5.4X
RAB	4.71	64	eP	36	04.00	-0.1
HNR	12.32	106	iP	37	32.00	-17.0X
			iS	37	37.50	
CTA	13.83	187	iPc	38	10.60	1.7
	1.0s		10.00nm		4.5mb	
QIS	16.33	209	eP	38	40.20	-1.0
	0.4s		13.00nm		4.4mb	
WB5	18.88	223	eP	39	11.00	-1.7
			e(S)	42	44.10	
WRA	18.94	223	Pc	39	11.90	-1.6
	0.4s		12.20nm		4.5mb	
AAI	19.81	277	eP	39	24.50	1.5
GUMO	19.96	351	eP	39	31.00	6.4X
QLP	20.50	189	eP	39	30.00	-0.1
KNA	21.01	242	eP	39	34.50	-0.8
BRS	21.51	168	iPc	39	40.10	-0.2
ASPA	21.93	216	ePd	39	44.80	0.2
	0.5s		99.00nm		5.5mb	
Z	17s		1.00um		4.3mszX	
			eS	43	46.70	
			LR	49	18.30	
DZM	23.81	133	iPc	40	10.10	7.0X
COO	24.47	172	e(P)	40	08.00	-1.3
CMS	25.16	184	eP	40	16.30	0.5
	0.8s		6.00nm		4.2mb	
STK	26.16	192	iPc	40	25.50	0.4
	1.2s		19.00nm		4.5mb	
WARB	28.36	223	eP	40	46.00	0.8
	0.4s		12.00nm		4.9mb	
MBL	30.95	239	eP	41	07.80	-0.6
MEKA	34.53	231	iPc	41	39.70	0.3
COOL	35.07	222	eP	41	44.00	0.0
NANU	35.18	239	eP	41	45.40	0.4
	0.4s		21.00nm		5.4mb	
MRWA	37.79	229	eP	42	07.00	0.1
	0.4s		13.00nm		5.2mb	
KLB	37.81	224	eP	42	07.00	0.0
BAL	38.00	227	eP	42	09.00	0.3
NWAO	38.95	223	eP	42	17.00	0.4
MUN	39.11	225	eP	42	18.00	0.0
MAT	43.55	349	eP	42	53.00	-1.2
CNCB	137.74	123	ePKP	54	16.00	0.2
LPB	137.78	123	ePKP	54	17.00	1.3
ZOBO	137.89	123	ePKP	54	11.00	-5.1X
SIV	143.77	128	PKP	54	25.20	-0.6
LIC	153.11	271	PKP	54	49.70	9.2X
	S.D. = 0.9	on		29 of	35 obs.	

? AUG 31, 1990 10h 07m 48.24±3.48s
 31.123 S ±67.5km 68.584 W ±19.2km
 DEPTH = 100.0km (geophysicist)

SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.23	155	iPc	08	03.00	-0.1
RTCB	0.41	207	iPd	08	04.00	0.3
ZON	0.43	191	iPd	08	03.50	-0.3
			eS	08	13.50	
CFA	0.57	149	ePc	08	04.90	0.1
			S	08	17.20	
RTBS	0.92	234	ePd	08	08.00	0.0
			S	08	22.50	
	S.D. = 0.3	on		5 of	5 obs.	

AUG 31, 1990 10h 57m 07.16±0.51s
 46.183 N ± 4.2km 7.440 E ± 4.8km

DEPTH = 10.2 ± 4.3 km

SWITZERLAND (544)

MD 2.7 (STR). ML 2.5 (LDG).

DIX	0.10	191	ePc	57	10.70	0.5
EMS	0.37	252	ePd	57	14.30	-0.6
MMK	0.39	110	ePc	57	14.30	-0.9
LPL	0.83	217	Pg	57	23.20	-0.1
LPG	0.84	215	Pg	57	23.50	0.0
			Sg	57	36.10	
TMA	1.00	94	ePc	57	27.70	1.5
LOMF	1.24	340	Pg	57	29.56	-0.7
			Sg	57	44.80	
LLS	1.28	57	ePc	57	28.70	-2.2
BBS	1.28	2	Pg	57	29.79	-1.2
VDL	1.44	77	ePd	57	33.50	0.1
ZLA	1.45	26	ePd	57	34.00	0.5
MOF	1.68	353	Pg	57	36.36	-0.4
			Sg	57	57.51	
SAX	1.69	50	ePc	57	37.80	0.7
BSF	1.71	345	Pg	57	36.90	-0.3
			Sg	57	58.00	
FEL	1.74	13	Pg	57	37.69	0.0
			Sg	57	58.64	
SLE	1.74	24	ePc	57	37.60	0.0
HAU	1.97	338	Pg	57	41.20	0.3
			Sg	58	06.10	
ECH	2.04	355	Pn	57	43.28	1.3
CDF	2.23	357	Pg	57	46.40	1.6
			Sg	58	14.40	
LBF	2.52	290	Pg	57	54.20	5.4X
			Sg	58	23.80	
LOR	2.69	295	Pg	57	56.50	5.2X
			Sg	58	29.00	
SSF	2.85	289	Pg	57	59.40	5.9X
			Sg	58	34.00	
	S.D. = 1.0	on		19 of	22 obs.	

? AUG 31, 1990 11h 00m 26.75±3.63s
 40.099 N ± 7.8km 29.094 E ± 36.1km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

IZI	0.38	51	iPg	00	34.50	0.0
			iSg	00	38.20	
YLV	0.51	24	iPg	00	37.40	0.2
HRT	0.84	31	iPg	00	42.80	-0.3
ALT	1.31	143	ePn	00	51.00	0.0
	S.D. = 0.4	on		4 of	4 obs.	

AUG 31, 1990 11h 05m 14.08±1.10s
 11.987 N ± 7.2km 140.548 E ± 6.9km
 DEPTH = 60.7 ± 12.1 km
 4.5mb (8 obs.) 4.2msz (1 obs.)
 WEST CAROLINE ISLANDS (209)

GUMO	4.50	69	eP	06	21.20	-0.1
	0.8s		111.27nm			
PJG	4.50	69	eP	06	21.00	-0.3
GUA	4.53	70	eP	06	21.60	-0.1
	0.7s		241.10nm			
			eS	07	16.30	
DAV	15.54	253	eP	08	52.00	1.0
QCP	19.13	280	eP	09	37.20	1.9
BAG	19.85	285	eP	09	42.00	-1

PKI 53.74 295 P 14 32.30 -0.6
 KKN 53.87 296 P 14 33.30 -0.5
 DMN 54.01 295 P 14 34.50 -0.4
 GKN 54.46 296 P 14 37.20 -0.9
 MAIO 75.84 305 iPd 16 57.00 1.0
 INK 77.45 22 ePc 17 03.70 -0.4
 MBC 80.83 14 eP 17 25.00 2.7
 YKA 86.20 27 eP 17 49.80 0.0

0.9s 1.20nm 4.0mb
 S.D. = 1.1 on 24 of 25 obs.

AUG 31, 1990 11h 07m 36.63 ± 0.41s
 11.976 N ± 6.7km 140.426 E ± 7.0km
 DEPTH = 33.0km (normal)
 4.5mb (4 obs.) 3.8msz (1 obs.)

WEST CAROLINE ISLANDS (209)

GUMO 4.62 69 eP 08 46.50 0.6
 0.7s 147.40nm
 PJG 4.62 69 eP 08 46.00 0.1
 GUA 4.64 70 eP 08 45.60 -0.7
 0.8s 226.87nm
 WB5 32.21 191 eP 14 03.10 -1.0
 WRA 32.28 191 Pd 14 03.10 -1.6
 0.8s 6.40nm 4.6mb
 TIY 35.82 321 Pc 14 35.10 -0.1
 ASPA 35.99 190 eP 14 36.10 -0.6
 0.5s 11.00nm 5.0mb
 Z 21s 0.19um 3.8msz

XAN 36.13 313 eP 14 37.70 -0.1
 BTO 39.08 322 eP 15 03.00 0.4
 DZM 42.38 143 iPc 15 30.10 0.2
 CMS 43.52 173 iPc 15 39.20 0.3
 0.7s 4.00nm 4.3mb

STK 43.62 179 iPc 15 39.50 -0.2
 1.8s 12.00nm 4.4mb

GTA 45.10 315 Pd 15 51.80 0.0
 ADE 46.71 182 eP 16 13.50 9.1X
 BWA 46.76 171 eP 16 06.30 1.5
 16 15.10

CAN 47.73 171 eP 16 13.90 1.5
 16 22.30

MAIO 75.75 305 iPd 19 22.40 1.1
 INK 77.50 22 eP 19 29.00 -1.2

ZOBO 152.00 102 PKP 27 31.00 6.2X
 LPB 152.00 103 ePKP 27 32.00 7.4X
 CNCB 152.00 103 PKP 27 32.00 7.1X

S.D. = 0.9 on 17 of 21 obs.

AUG 31, 1990 11h 17m 39.47 ± 0.79s
 26.335 S ± 8.4km 27.385 E ± 8.6km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)

ML 3.2 (PRE). mbLg 3.1 (BUL).

PRY 0.60 172 eP 17 50.50 -0.9
 S 17 56.00

BPI 0.60 75 eP 17 52.00 0.5
 S 17 59.00

KSR 0.64 317 eP 17 56.50 4.2X
 BFS 0.78 224 iPd 17 55.90 0.8
 SLR 1.00 54 iPd 17 58.90 -0.2

SEK 1.99 174 eP 18 11.30 0.7
 S 18 30.00

SWZ 2.03 245 iPd 18 17.00 2.2
 S 18 42.50

BFT 2.48 75 eP 18 22.50 1.1
 S 18 54.00

BLF 2.96 201 eP 18 27.00 -1.1
 KIM 3.34 223 iP 18 32.00 -1.5

HVD 4.57 201 iPc 19 20.50 29.5X
 BUL 6.27 11 iPn 19 13.50 -1.5
 iSn 20 22.50
 iSg 20 53.20

CIR 6.55 37 eP 19 24.50 5.6X
 iS 20 43.50

iSg 21 00.90
 KRI 9.68 13 ePn 20 00.00 -2.7X
 iSn 21 46.00
 iSg 22 38.00

S.D. = 1.4 on 10 of 14 obs.

? AUG 31, 1990 12h 04m 32.34 ± 1.37s
 13.875 S ± 56.9km 72.466 W ± 28.3km
 DEPTH = 66.4 ± 33.4 km
 3.9mb (1 obs.)

PERU (116)

PT08 4.41 295 iPd 05 42.30 3.6X
 iS 06 32.10

NNA 4.66 293 iP 05 41.90 0.0
 0.6s 30.67nm
 i 05 46.50
 iS 06 35.90

ZOBO 4.82 120 P 05 45.00 0.3
 0.9s 17.30nm
 LPB 4.98 123 P 05 47.60 0.9
 CNCB 5.22 125 P 05 49.20 -1.0

e 06 25.00
 SIV 11.21 102 P 07 12.00 -0.2
 YKA 82.92 342 eP 16 50.90 0.1

0.8s 1.20nm 3.9mb
 S.D. = 1.0 on 6 of 7 obs.

AUG 31, 1990 12h 08m 51.37 ± 1.35s
 39.815 N ± 9.4km 143.503 E ± 7.9km
 DEPTH = 34.6 ± 11.0 km
 4.8mb (24 obs.) 3.9msz (1 obs.)

OFF EAST COAST OF HONSHU, JAPAN (229)

OFUJ 1.60 243 P 09 18.20 0.5
 eS 09 38.60

AOMJ 2.51 288 iPd 09 31.60 1.0
 YAMJ 3.16 240 P 09 40.30 0.3
 MAT 5.30 234 iPc 10 10.60 0.3

1.0s 85.00nm 5.2mb
 (S) 11 17.00

MDJ 11.37 299 eP 11 34.00 -0.5
 CN2 14.04 292 eP 12 07.20 -2.7
 SNY 15.22 284 Pd 12 26.20 0.9

Z 17s 0.90um
 DL2 16.94 274 P 12 48.50 1.2
 1.0s 100.00nm 4.9mb

BJI 20.93 279 eP 13 30.00 -3.4X
 Z 18s 0.47um 3.9msz
 TIA 21.07 269 eP 13 32.10 -2.7

Z 16s 0.90um 4.2msz
 TIY 24.26 275 eP 14 08.50 2.2
 Z 14s 0.70um 4.3msz

HHC 24.30 283 P 14 05.00 -1.8
 WHN 25.47 258 Pd 14 18.20 0.4
 0.8s 100.00nm 5.5mb

XAN 28.12 269 P 14 40.20 -2.0
 LZH 31.32 276 P 15 10.00 -0.7

Z 15s 0.40um 4.2msz
 GYA 33.36 258 P 15 27.80 -0.8
 GTA 33.41 284 iPc 15 29.20 0.3

0.8s 15.00nm 5.0mb
 Z 16s 0.60um 4.4msz

WMO 41.12 294 P 16 34.00 0.4
 CHG 43.59 255 eP 16 54.50 0.5
 FBA 45.88 34 eP 17 12.00 0.2

1.0s 6.00nm 4.5mb
 GUN 48.55 274 P 17 33.80 0.2
 KKN 49.07 275 P 17 37.60 0.1

PKI 49.08 274 P 17 37.40 -0.3
 DMN 49.29 274 P 17 39.20 -0.1
 GKN 49.46 275 P 17 40.20 -0.2

INK 51.17 28 ePd 17 52.20 -0.4
 WB5 59.99 190 eP 18 55.50 -1.3
 YKA 60.58 31 eP 18 59.00 -1.4

0.7s 0.70nm 3.9mb
 GBA 63.07 265 Pd 19 19.50 1.8
 0.7s 2.10nm 4.4mb

NUR 68.26 332 eP 19 50.00 -0.4
 LRM 71.02 46 eP 20 08.20 0.3
 KVN 71.78 54 eP 20 10.20 -2.3

HFS 72.22 336 eP 20 13.10 -1.4
 0.7s 6.80nm 4.7mb
 Z 17s 0.06um 3.9msz

LR 51 02.00
 NB2 72.25 338 P 20 13.90 -0.8
 0.8s 4.60nm 4.5mb

DAU 75.09 50 e(P) 20 22.30 -9.6X
 MSU 75.76 52 e(P) 20 44.00 8.3X
 ANMO 81.56 51 eP 21 08.20 1.0

ALO 81.56 51 eP 21 08.00 0.8

1.0s 3.25nm 4.3mb
 LOR 86.14 334 eP 21 30.30 0.3
 0.8s 6.70nm 4.9mb

LBF 86.35 334 eP 21 31.30 0.2
 0.8s 6.70nm 4.9mb

SSF 86.44 334 eP 21 31.90 0.4
 0.7s 4.95nm 4.8mb

LPL 86.62 331 eP 21 33.30 0.6
 0.8s 4.05nm 4.7mb

LPG 86.63 331 eP 21 33.50 0.7
 0.8s 4.05nm 4.7mb

GRR 86.67 337 eP 21 33.00 0.5
 0.8s 8.05nm 5.0mb

SMF 86.69 333 eP 21 32.70 0.0
 0.9s 4.90nm 4.7mb

AVF 86.73 334 eP 21 33.50 0.6
 0.8s 10.75nm 5.1mb

LPF 87.04 337 eP 21 35.10 0.8
 0.8s 5.35nm 4.8mb

BGF 87.10 334 eP 21 35.10 0.4
 0.8s 5.35nm 4.8mb

MAF 87.49 334 eP 21 37.60 1.0
 0.8s 5.35nm 4.9mb

TCF 87.55 334 eP 21 37.90 1.0
 0.8s 2.70nm 4.6mb

LSF 87.81 335 eP 21 38.90 0.8
 0.8s 9.40nm 5.1mb

MFF 88.04 336 eP 21 39.90 0.7
 0.8s 8.05nm 5.1mb

ZOBO 143.85 59 (PKP) 28 14.00 -11.7X
 CNCB 144.33 59 PKP 28 26.00 -0.5
 SIV 148.03 49 PKP 28 35.20 3.3X

S.D. = 1.1 on 50 of 55 obs.

? AUG 31, 1990 12h 08m 54.02 ± 1.29s
 40.532 N ± 9.7km 21.098 E ± 18.0km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)

ML 2.9 (SKO).

KZN 0.56 113 ePb 09 01.20 -4.3X
 eSb 09 10.50

OHR 0.62 339 iPg 09 06.00 -0.6
 iSg 09 18.20

VAY 1.37 54 ePn 09 18.50 -0.6
 SKO 1.46 10 ePn 09 21.50 1.1
 eSg 09 40.90

EVR 1.70 161 ePb 09 24.10 0.1
 S.D. = 1.3 on 4 of 5 obs.

& AUG 31, 1990 12h 25m 42.64s
 61.429 N 146.934 W
 DEPTH = 10.1km
 SOUTHERN ALASKA (2)

<AGS-P>.

VZW 0.41 154 iP 25 51.05 -0.1
 eS 25 57.78

VLZ 0.42 135 iP 25 50.98 -0.2
 eS 25 57.25

SCM 0.45 335 iP 25 51.92 0.1
 iS 25 59.16

KLK 0.49 82 iP 25 52.17 -0.5
 iS 25 59.36

SML 0.77 300 iP 25 56.44 -1.2
 eS 26 07.36

TOA 0.77 28 iP 25 57.00 -0.7
 GHO 1.01 291 iP 26 00.40 -1.4

CVA 1.06 146 eP 26 01.11 -1.4
 HIN 1.06 168 iP 26 01.46 -1.1

eS 26 17.03
 PLRM 1.07 280 eP 26 01.31 -1.4
 eS 26 15.58

PMS 1.28 263 iP 26 04.88 -1.5
 eS 26 21.90

PWA 1.43 280 eP 26 07.20 -1.3
 GLB 1.50 88 eP 26 07.31 -2.3

RAGM 1.52 132 eP 26 07.91 -2.0
 HMT 1.71 129 eP 26 10.30 -2.3

SEW 1.81 224 eP 26 12.16 -1.9
 SUA 1.83 273 eP 26 13.25 -1.2

SLKM 1.85 241 eP 26 13.03 -1.7
 CUT 1.86 303 eP 26 13.52 -1.2

KAIM 1.95 139 eP 26 14.20 -1.9
 HUR 2.01 322 eP 26 15.92 -1.0

MID 2.03 171 eP 26 15.06 -2.1
 TGL 2.11 107 eP 26 16.25 -2.2

31d 12h

NKA	2.20	254	eP	26	20.18	0.5
WAX	2.22	114	eP	26	17.48	-2.6
BALM	2.25	98	eP	26	18.05	-2.6
SKT	2.26	286	eP	26	18.87	-1.7
SNH	2.37	120	eP	26	20.65	-1.5
CGLM	2.45	269	eP	26	21.71	-1.6
MCK	2.49	339	eP	26	23.39	-0.5
NCG	2.51	272	eP	26	22.41	-1.8
CRP	2.52	269	eP	26	23.29	-1.1
NNL	2.55	239	eP	26	23.36	-1.4
BRLK	2.57	231	eP	26	22.79	-2.2
CYK	2.57	120	eP	26	22.88	-2.0
CKL	2.62	267	eP	26	23.68	-2.1
BGL	2.63	269	eP	26	23.89	-2.1
WRG	2.78	118	eP	26	23.86	-4.2
RDT	2.80	255	eP	26	24.73	-3.6
KTH	2.82	321	eP	26	27.76	-0.9
CNPM	2.86	230	eP	26	26.61	-2.5
HDA	2.99	360	eP	26	30.63	-0.3
XLV	3.09	232	eP	26	29.61	-2.7
CCB	3.25	353	eP	26	33.57	-1.1

44 obs. associated

AUG 31, 1990 14h 14m 38.33±0.63s
 26.962 N ± 5.6km 102.796 E ± 4.5km
 DEPTH = 58.8 ± 8.8 km
 4.3mb (5 obs.)

SICHUAN PROVINCE, CHINA (307)

KMI	1.83	182	Pgd	15	08.50	0.3
			Sg	15	33.50	
GYA	3.50	97	Pn	15	31.80	0.2
			Sg	16	23.60	
CD2	4.02	12	Pn	15	39.40	0.5
			Pg	15	49.70	
			Sg	16	42.20	
XAN	8.81	35	ePn	16	41.00	-4.6X
			Pg	17	13.00	
			Sn	18	15.50	
			Sg	19	06.00	
WHN	10.75	68	eP	17	11.50	-0.5
TIY	13.45	35	eP	17	47.50	-0.6
Z	12s		0.70um			
GUN	15.05	277	P	18	09.20	-0.1
PKI	15.48	276	P	18	14.20	-0.5
KKK	15.58	277	P	18	15.80	-0.2
	0.9s		45.00nm			4.6mb
GKN	16.15	278	P	18	23.00	-0.1
WMO	20.79	328	P	19	17.60	0.8
GBA	27.18	246	Pd	20	23.40	5.1X
	0.8s		2.30nm			3.8mb
WB5	55.72	143	eP	24	11.10	-0.2
WRA	55.76	143	Pc	24	11.70	0.1
	0.7s		3.20nm			4.5mb
HFS	66.58	327	eP	25	24.00	-0.2
	0.4s		1.50nm			4.3mb
NB2	67.54	328	P	25	30.80	0.5
	0.7s		2.10nm			4.2mb

S.D. = 0.5 on 14 of 16 obs.

AUG 31, 1990 15h 42m 59.11±0.40s
 27.296 N ± 7.9km 53.914 E ± 4.3km
 DEPTH = 33.0km (normal)
 4.6mb (29 obs.) 3.7Msz (2 obs.)

SOUTHERN IRAN (353)

RYD	7.05	250	eP	44	42.00	-0.8
			iS	45	59.00	
MJMA	7.85	261	eP	44	28.00	-26.0X
TEH	8.69	346	eP	45	05.00	-0.6
KER	9.15	322	e(P)	44	32.00	-39.9X
MAIO	10.15	26	eP	45	26.00	0.3
AFIF	10.19	254	eP	45	28.70	2.4
UOSK	10.45	264	eP	45	27.30	-2.6
KMSA	11.03	233	eP	45	39.70	1.9
DSI	16.70	289	eP	46	55.00	2.9
BHL	17.03	297	P	46	58.00	1.5
			S	55	00.00	
POO	20.31	111	eP	47	17.00	-18.1X
NDI	20.62	81	eP	47	39.50	1.3
	0.5s		24.65nm			4.8mb
BBTK	21.55	311	eP	47	49.00	1.2
KSH	21.99	51	eP	47	52.00	-0.2
N	10s		0.90um			
ELL	22.38	301	eP	47	57.50	1.4
GBA	25.85	117	Pc	48	29.50	0.1
	0.8s		8.30nm			4.4mb

GKN	27.19	81	P	48	42.00	0.1
	0.6s		13.00nm			4.7mb
KKN	27.78	82	P	48	46.80	-0.5
	0.7s		25.00nm			5.0mb
PKI	27.92	82	P	48	48.60	-0.1
	0.8s		30.00nm			5.0mb
GUN	28.29	81	P	48	51.20	-0.9
	0.9s		57.00nm			5.3mb
MLR	28.71	317	eP	48	58.00	2.6
OHR	30.46	305	eP	49	10.00	-1.0
KRA	34.47	320	eP	49	46.00	0.2
LJU	36.25	312	eP	50	01.50	0.5
NUR	38.69	337	eP	50	23.00	1.7
SOTA	38.78	312	iPc	50	21.40	-1.0
	0.6s		25.00nm			5.2mb
			i	50	27.00	
			i	50	33.60	
CLL	38.99	319	eP	50	26.00	2.1
OSS	39.35	311	ePd	50	27.40	0.2
GRF	39.50	316	e(P)	50	18.00	-10.2X
GTA	39.81	60	P	50	32.00	1.0
	0.6s		10.00nm			4.8mb
SUF	39.85	340	eP	50	32.00	1.1
SAX	40.02	312	ePd	50	32.30	-0.6
LLS	40.16	311	ePd	50	33.30	-0.7
BCAO	40.67	242	ePd	50	42.00	3.8X
	0.4s		3.00nm			4.4mb
SLE	40.70	313	ePd	50	37.40	-0.8
ZLA	40.71	312	ePd	50	37.50	-0.7
LPG	41.42	309	eP	50	44.90	0.5
	0.8s		4.70nm			4.3mb
LPL	41.44	309	eP	50	44.90	0.4
	0.8s		4.05nm			4.2mb
BSF	41.84	312	eP	50	46.30	-1.2
	0.8s		6.70nm			4.4mb
CHG	42.10	92	eP	50	51.90	2.0
HFS	42.69	332	eP	50	54.00	-0.2
	0.4s		1.40nm			4.0mb
Z	17s		0.08um			3.7MszX
			LR	07	38.00	
LZH	42.99	65	eP	50	57.00	-0.2
	2.0s		29.00nm			4.7mb
Z	15s		0.50um			4.5MszX
LBF	43.56	311	eP	51	00.40	-1.2
	0.9s		4.10nm			4.2mb
SMF	43.60	310	eP	51	00.60	-1.3
	0.6s		4.50nm			4.4mb
LOR	43.69	311	eP	51	01.30	-1.2
	1.0s		7.00nm			4.4mb
Z	20s		0.10um			3.7Msz
DOU	43.74	315	P	51	03.70	0.9
SSF	43.89	311	eP	51	03.30	-0.9
	0.8s		5.35nm			4.4mb
NB2	44.21	332	P	51	04.60	-2.0
	0.8s		2.30nm			4.0mb
CAF	44.64	307	eP	51	10.10	-0.2
	0.8s		5.35nm			4.5mb
TCF	44.68	309	eP	51	09.70	-0.9
	0.8s		4.05nm			4.3mb
RJF	45.06	308	eP	51	13.40	-0.2
	0.9s		9.85nm			4.7mb
Z	20s		0.10um			3.7Msz
LFF	45.58	307	eP	51	17.50	-0.2
	0.7s		6.60nm			4.7mb
LDF	46.52	312	eP	51	23.40	-1.7
	0.7s		6.60nm			4.7mb
XAN	47.32	68	P	51	31.40	-0.3
TIY	49.73	62	eP	51	49.90	-0.4
Z	12s		0.60um			4.0MszX
OIZ	51.72	87	eP	52	05.00	-0.6
LKO	58.63	265	P	52	52.61	-3.2X
	0.6s		4.00nm			4.7mb
CN2	58.75	53	eP	52	56.00	-0.1
	0.6s		10.00nm			5.1mb
KIC	59.32	261	P	52	59.10	-1.4
TIC	59.43	261	P	53	00.00	-1.3
LIC	59.63	261	P	53	01.50	-1.2
MBC	76.62	358	eP	54	48.50	0.9
	0.9s		7.00nm			4.7mb
YKA	90.05	355	eP	55	57.00	0.5
	0.5s		1.80nm			4.6mb
WB5	90.88	112	eP	56	05.00	4.0X
WRA	90.88	112	P	56	05.00	4.0X
	0.7s		1.20nm			4.4mb

S.D. = 1.2 on 57 of 65 obs.

? AUG 31, 1990 16h 00m 34.87±6.36s

31.908 S ± 27.8km 72.383 W ± 50.1km
 DEPTH = 25.5 ± 7.9 km
 OFF COAST OF CENTRAL CHILE (134)

IHA	1.28	151	eP	01	02.00	4.9X
			i(S)	01	25.00	
ROCH	1.57	133	iPd	01	01.50	-0.1
			iS	01	23.50	
JACH	1.70	117	iPd	01	02.00	-1.4
			iS	01	23.00	
LCCH	1.71	157	eP	01	03.50	0.2
			iS	01	30.50	
PEL	1.89	131	iPd	01	05.00	-1.1
			iS	01	33.00	
SAN	2.12	137	eP	01	10.50	1.2
			i	01	42.50	
TACH	2.12	145	eP	01	06.50	-2.9
			i	01	37.50	
LNK	2.20	158	eP	01	10.00	-0.4
			i	01	49.00	
			i	01	52.00	
FCH	2.26	129	eP	01	11.00	-0.7
			iS	01	42.00	
PCH	2.32	138	iPc	01	14.50	2.2X
			i	01	48.00	
CHCH	2.49	145	eP	01	13.50	-1.2
			i	01	50.50	
RTBS	2.51	85	e(P)	01	13.30	-1.5
RTCB	3.08	83	e(P)	01	22.70	-0.4
MDZ	3.14	109	eP	01	27.40	3.5X
			i	01	37.70	
			iS	02	10.40	
ZON	3.18	84	eP	01	24.50	0.1
RTCV	3.27	90	e(P)	01	27.00	1.3
RTLL	3.39	81	e(P)	01	25.30	-2.1
			e	01	28.10	
CFA	3.54	86	ePc	01	29.10	-0.5
			S	02	15.10	

S.D. = 1.3 on 15 of 18 obs.

? AUG 31, 1990 16h 09m 21.03±9.43s
 51.473 N ± 52.9km 16.344 E ± 62.7km
 DEPTH = 10.0km (geophysicist)

POLAND (548)

KSP	0.63	183	iPd	09	33.30	-0.4
			iS	09	41.70	
			i	09	49.50	
BRG	1.62	249	iPg	09	48.60	-1.2
			iSg	10	08.00	
PRU	1.88	218	ePn	09	53.50	0.1
			Pg	09	56.00	
			Sn	10	11.20	
			Sg	10	16.00	
CLL	2.10	267	(Pg)	09	57.00	0.4
			eSg	10	23.00	
KHC	2.94	218	ePg	10	09.50	0.8
			Sg	10	53.00	
MOX	3.10	256	ePg	10	17.00	6.2X
			iSg	10	55.00	
VKA	3.21					

AUG 31, 1990 18h 44m 28.16±0.56s
37.058 N ± 5.2km 28.162 E ± 5.9km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

CIN	0.54	354	iPd	44	38.00	-1.2
			iSg	44	46.00	
SMG	1.24	302	ePb	44	51.50	0.3
ELL	1.43	102	ePn	44	54.00	-0.3
KSL	1.48	129	ePb	44	55.10	0.3
			eSb	45	17.50	
IZM	1.52	332	iPn	44	55.50	0.1
KHL	1.66	40	iPn	44	56.60	-0.9
KAP	1.70	208	ePb	44	57.50	-0.5
ALT	2.52	37	ePn	45	10.00	0.1
DST	2.57	8	ePn	45	10.00	-0.6
PRK	2.64	326	ePb	45	20.50	8.9X
NPS	2.73	230	ePn	45	13.10	0.2
IZI	3.43	17	ePn	45	25.00	2.2
YLV	3.63	15	ePn	45	31.00	5.4X
BBTK	4.56	51	eP	45	39.00	0.2

S.D. = 0.9 on 12 of 14 obs.

* AUG 31, 1990 19h 20m 00.76±0.52s
6.366 N ± 9.7km 82.512 W ± 10.9km
DEPTH = 33.0km (normol)
4.7mb (9 obs.) 4.0Msz (1 obs.)

SOUTH OF PANAMA (83)

UPA	3.93	48	iPd	21	01.50	1.2
ZOBO	26.62	148	P	25	39.00	0.0
			LR	34	16.00	
CNCB	27.14	148	eP	25	45.00	1.3
OLY	30.15	345	P	26	07.80	-2.2
POW	30.69	346	P	26	13.80	-1.0
SIV	30.72	137	eP	26	13.00	-2.3
BLA	30.76	3	P	26	14.50	-0.9
			0.9s	14.46nm	4.8mb	
ALQ	36.00	325	eP	27	01.00	0.0
			1.0s	10.50nm	4.7mb	
ANMO	36.00	325	P	27	01.40	0.4
			1.2s	19.53nm	4.9mb	
GLD	39.01	332	P	27	26.90	0.7
			1.2s	31.31nm	4.9mb	
GOL	39.04	332	P	27	26.80	0.2
			0.9s	11.36nm	4.6mb	
GLA	40.07	316	P	27	35.80	0.9
PLM	41.66	315	P	27	48.80	0.7
MSU	41.77	324	P	27	50.00	1.0
DAU	42.56	327	P	27	56.00	0.4
BW06	43.42	331	P	28	01.80	-0.7
			1.3s	16.39nm	4.6mb	
KVN	45.70	321	P	28	20.20	-0.5
CMB	46.60	318	P	28	32.50	4.8X
			1.2s	11.57nm	4.7mb	
LRM	47.08	332	eP	28	32.60	1.0
SES	49.95	336	eP	28	54.00	0.5
NEW	51.06	331	P	29	01.00	-1.0
PNT	52.99	330	eP	29	17.00	0.5
EDM	53.05	337	iPc	29	16.20	-0.7
YKA	60.76	344	eP	30	09.80	-1.6
			0.8s	3.70nm	4.6mb	
INK	70.44	342	eP	31	14.00	0.5
MBC	72.70	351	eP	31	27.50	0.6
			1.0s	8.00nm	4.7mb	
LKO	76.12	82	P	31	48.60	0.8

S.D. = 1.1 on 26 of 27 obs.

* AUG 31, 1990 19h 21m 36.65±0.96s
9.725 S ± 7.4km 160.277 E ± 10.5km
DEPTH = 47.1 ± 8.7 km
4.5mb (7 obs.)

SOLOMON ISLANDS (193)
Felt at Honiara.

MNR	0.44	312	iPc	21	46.90	-0.1
			i(S)	22	57.00	
DZM	13.63	155	iPc	24	49.10	-0.3
CTA	17.01	231	iPd	25	33.90	1.0
			1.0s	50.00nm	4.6mb	
BRS	18.95	201	iPc	25	57.20	0.4
QIS	22.65	239	iPd	26	35.50	0.5
			0.7s	15.00nm	4.5mb	
CMS	25.47	210	iPc	27	02.00	-0.1
			0.7s	11.00nm	4.5mb	
BWA	26.88	202	eP	27	14.20	-0.9

WB5	26.97	245	eP	27	15.70	-0.3
WRA	27.01	245	Pd	27	15.60	-0.8
			1.2s	10.90nm	4.4mb	
CAN	27.48	200	eP	27	20.80	0.3
STK	28.03	215	eP	27	24.70	-0.8
			1.8s	28.00nm	4.6mb	
MAT	50.49	337	eP	30	32.00	-0.1
SPA	80.34	180	iPc	33	45.20	0.9
			0.9s	6.36nm	4.6mb	
YKA	96.30	28	eP	35	01.30	0.2
			0.7s	1.00nm	4.4mb	

S.D. = 0.7 on 14 of 14 obs.

? AUG 31, 1990 19h 48m 09.12±22.18s
0.960 S ± 149.4km 78.213 W ± 19.5km
DEPTH = 10.0km (geophysicist)

ECUADOR (107)

VC1	0.37	329	iP+	48	16.40	-0.5
			iS	48	24.80	
OUR	0.84	338	eP	48	25.00	-0.7
			eS	48	40.00	
GGP	0.87	334	eP	48	25.80	-0.4
			eS	48	40.00	
CAYA	1.06	13	eP	48	28.80	-0.6
COTA	1.29	354	eP	48	34.00	0.6

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

* AUG 31, 1990 20h 15m 41.70s
40.457 N 125.308 W
DEPTH = 4.0km
OFF COAST OF NORTHERN CALIFORNIA (34)
<BRK>. ML 3.9 (BRK).

FHC	1.06	71	iPc	16	01.50	-0.8
			iS	16	15.10	
WDC	2.11	86	iPc	16	16.20	-2.1
			iS	16	41.50	
LTCM	2.45	95	eP	16	21.30	-1.8
LBFM	2.74	70	eP	16	25.90	-1.6
MIN	2.83	91	iPc	16	26.30	-2.4
			iS	17	00.10	
ORV	3.06	106	iPc	16	30.20	-1.6
			iS	17	05.40	
BRK	3.50	136	iPc	16	35.00	-3.0
BKS	3.51	136	eP	16	34.90	-3.3
PCC	3.73	141	ePc	16	38.20	-3.1
MHC	4.23	136	ePc	16	44.80	-3.6
ARN	4.28	135	eP	16	44.20	-4.9
GCC	4.29	142	e(P)	16	45.10	-4.1
CMB	4.52	121	ePc	16	50.90	-1.7
SAO	4.77	139	eP	16	50.70	-5.4
FRI	5.58	127	eP	17	05.70	-1.8
KVN	5.73	102	eP	17	07.00	-2.8

16 obs. associated

? AUG 31, 1990 20h 37m 31.33±4.97s
31.815 S ± 24.6km 71.986 W ± 39.0km
DEPTH = 33.0km (normol)
NEAR COAST OF CENTRAL CHILE (135)

ROCH	1.42	145	eP	37	54.80	-0.4
			iS	38	15.00	
JACH	1.46	127	iPd	37	55.50	-0.3
			iS	38	15.20	
LCCH	1.69	168	eP	38	00.00	1.0
			i	38	26.50	
PEL	1.72	141	iPd	37	59.50	0.0
			iS	38	23.80	
TACH	2.04	155	eP	38	04.10	0.1
			iS	38	30.50	
FCH	2.08	137	eP	38	04.50	-0.4
			iS	38	32.00	
RTBS	2.16	87	e(P)	38	07.20	1.5
PCH	2.19	146	eP	38	06.50	0.3
LNV	2.19	167	eP	38	05.00	-1.1
CHCH	2.39	152	eP	38	09.40	0.3
			i	38	41.70	
RTCB	2.74	84	e(P)	38	12.20	-1.8
MDZ	2.86	113	eP	38	21.90	6.2X
			iS	39	05.40	
RTCV	2.94	92	e(P)	38	18.80	2.0
RTLL	3.04	82	e(P)	38	18.90	0.6
CFA	3.20	87	e(P)	38	18.50	-2.0

S.D. = 1.2 on 14 of 15 obs.

? AUG 31, 1990 22h 18m 17.19±4.58s

44.981 N ± 26.5km 2.721 E ± 30.5km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.9 (LDG).

CAF	0.47	263	Pg	18	26.20	-0.5
RJF	0.91	291	Pg	18	35.00	0.4
			Sg	18	48.00	
LPO	1.13	255	Pg	18	38.70	0.3
			Sg	18	55.20	
MAF	1.24	355	Pg	18	40.30	0.0
			Sg	18	57.40	
TCF	1.36	345	Pg	18	42.00	-0.1
			Sg	19	00.60	

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

* AUG 31, 1990 23h 01m 40.50±0.67s
11.383 N ± 15.8km 140.652 E ± 8.1km
DEPTH = 33.0km (normol)
4.7mb (4 obs.)

WEST CAROLINE ISLANDS (209)

GUMO	4.66	62	eP	02	51.00	0.6
PJG	4.66	62	eP	02	50.50	0.0
GUA	4.68	62	eP	02	50.30	-0.4
			0.7s	334.25nm		
			i	02	59.80	
WB5	31.68	191	eP	08	02.70	-0.6
WRA	31.74	191	Pc	08	09.20	5.3X
			0.7s	2.90nm	4.3mb	
PSI	42.25	261	ePc	09	34.50	1.8
GUN	53.71	296	P	11	02.00	-0.3
PKI	54.09	296	P	11	04.20	-0.8
KKN	54.22	296	P	11	05.40	-0.5
			1.0s	20.00nm	5.1mb	
GKN	54.81	296	P	11	09.40	-0.8
			1.0s	20.00nm	5.1mb	
MAIO	76.27	305	eP	13	29.00	0.9
YKA	86.69	27	eP	14	26.30	4.3X
			0.9s	2.20nm	4.4mb	
SUF	90.77	335	iP	14	38.50	-2.9X
ZOBO	151.65	103	PKPc	21	37.80	9.6X

S.D. = 1.0 on 10 of 14 obs.

X = data received for this 6-hour time period

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
AAE			XX		X	X	X			XX			XX		X																	
AAHD			X	XX		X	XX				X					X										X			X			
AAI			XXXXXX	XXX	X								X			X																
AAPN	X	X	XX	X	X	X		X		X	XXX	X	X	XX	X	XXX	X	XX	XX	XXX					XXXXXXX	X	X	XXX			XXXX	
ABH		X		X	X	XXX	X	XX		XX	XX	X	X	XX	XXXXX	XX	X		X	X	XX			XX	XX	X	X	XX			X	
ABL		X		X		XX	X	XX		X	X	X	XX	X		X				XX	XXXX	X	X		X	XX	XXX	XX	X		X	X
ACHM	X	X	X	X	X	X		X			X	X		XX	X	XXX	X	XX		XX	X	X			XXX	X		XX			X	
ACO																	X									X	X		XX		XX	
ACX				X		X	X		X	X	XXX	X		X	X		X			X							XX	X		X	XXX	X
ADE	X		XX	XX	X		X			X	X	X	X	XX	X		X	XX	XX	XX					XXX	X	XXX	XXX		X	X	XX
ADI			XX			X			X		X					XX	X				X	X				XX		X				
ADK	XX	X	X	X	X	X	XX				X	X		X	X	X	XX	XX	X	X	XXX	X			X	XX		XXX	X	X	X	XX
AFC				X							X			X	X	X					XX	X				XXX	X	XXX	X	X		XX
AFIF	X	X	XX		X	X					XX			X	X	X	X	XXX		XX	X	X				XXX	X					
AFR										XXX		X	X				X										X	X				X
AGAL			X	XX		X	XX		X			X				X	X															
AGG		XXXX	X	X	XX			XX	X			XXXXX	X	X	X	XXX	XXX	XXXXXX	XXXXX	XXXXX												
AGMR	X			XX		X	XX	X				X				X	X															
AGO		X		X		X	X				X	X	X	XXX	X	XXX					X	X				XX		X			X	
AIA	XXXXXX	XXXXXXXX	XX	XXXXXXXXXXXXXXXXXX	XX	XXX	XX	XXXXX	XXXX	X	XXXXXX	XXXX	X	XXXXXX	XXXXX	XXXX	X	X			X	XXXXX	X	X	XXX	XXXXX	XXXX	X	XXX	XXXXXXXXXX	X	
AKRL			X	XX		X	XX				X		X			XX	X				X					X						
AKSR			X	XX		X	XX		X			X		X			X															
AKU				X	X	X	X							X	XXX		X			X	X	X				X	XXX	X	X		XX	
ALN		X		XX	X	X	X		X			X	X	X	XXX	X	XXXX	XX	X	XX	XX	X	XX									
ALOJ	X	X		XX	X	X	X		X		XXXXX	X	X	XX	X	XXX	X	XX	XX	XXX							XX	X	X	XX		XX
ALO	X	XXXXX	XXXXXXXXXXXXXX	XXX	X	X	XXXXX	XXXXXXXXXX	XXXXX		XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	
ALT	XX	XX	XXXXX	XXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXX	XXXXX	XXXXXX	XXXXX	X	XXXXX	XXXXXX	X	X	XX	XX	XXXXX	XXXXX	X		XX	X	XXXXX	XX	X	X	XX	XX	XX
ANGL																	X	XX														
ANM			XX					X		X	X	X	X	X		XX				XX				X	X							
ANMO	X		XXX	XXX	X	XXX	XX		X	X	XX	XXXXXXXX	XXX	X	XXX	XXX	XXX	X	X		XX	X	XXX	XX	X	XX	XXX	XXX	XX	XXXXXXXX	X	XXXXXXXXXX
ANP	X	X	X	XX	XXX	XX	XXXX	XX	X	X	XX	X	X	X	XX	XXX	XX	XX	XX	XX	X	XX		XX	X	X	XXX					
ANT		XXXX		XXXXX		X	XXX	X	XX	X	XX	X	X	XXX	XXX	XX	X		X	X	XX	X	X	XX	XXX	XXXXXX	XXX	X	X		X	X
AOMJ																																
APE		XXXXXXXXXX	XX	X	X	XX	XXX	XX	X		X	XX	X		X	X	X		X	X	XX				X			XXX	X	X	XX	X
APHE	X	X		XX	X	X	X		X		XXXXX		X	XX	X	XXX	X	XX	XX	XXX						XXX	X	X	X	XX		XX
APO				X	X						X	X																				
AQU			X	XX	X	X	X		X			X		XX	X	XX	XX	X							X			XXX	X			
ARE	X	XX		XXX		XXXXX	X	X		X	XXX	XXXXX	XXXXX	XXXXX	X	XXX			XX	XXX		X	X			XX	XXXXXX	XXX	X	XXX	XX	XXXX
ARG								XX	X	X	XX		XX																			
ARN		XXXX	X		X	XX		XXX	X	X	X	X	X	X	XX	XX		X	XX		X	XXXXXX	XX	X	X		X	X	X		XXX	X
ARO																																
ASAJ			X	X						XX		X		X	X			XX	X	X	X					X						
ASK		X		X		X		XX	X	X		XX		X	X	XX			XXX	X												
ASMO		X	X	XX	X	X	X		X	XXXXX	X	X	X	XX	X	XX	X	XX	XX	XXX						XXX	X	X	X	XX		XX
ASPA	XX																															

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
BDT		X	X	XXX	XXX	XXXXX	X	XX		XXXXX	XXX	X	XXXX	X	X	XX	XXXX	XXXX		XXX	XXXXX		XX	X	XX	X	X	X	X	X	X			
BDV		XX	XX	X		X	X	XX	X		XXXX	X		X	XX	X	XXXX	XX	XX		XX	X	X	XX	X									
BEO		XX		XX	X	X	XX	X	XX		X	X	X	XX	X		XXX	X	XX	X	XX	X		X	X	XX	X	X	X					
BER		X		X		X	X				XX	X	X	XX		XX	X	X		X	XX			X	X	X	X	X	X	X				
BFD									X	X	X	XX	X			X	XX	XX		X	X	X		XX	X	X	X	X	X	X				
BFS		XXXX	XXXXXX			XXX	XX	XX	X	XXXX							XXXX	XXXX	XXXX	XXXXXXXXXXXX	X	X	XX	XXXXXXXX	XX	X	X	XX	XX	XX	XX			
BFT		XXXXX	X	XX	XXXX	XXXXX	X	X	X	XX			X	XXXXXXXX	XX	XXXXX	X			XXXX	XX	X	XX	XXXX	XX	XXXX	XXXX	XX	X	X	XX			
BGF		XXX	XXXX	XX	XXXX	X	X	XX	XXXXXX	XXXX	XX	XXX	XX	XXXXXX	XXXXXX	XXXX	XXXX	XX	X	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	X	XX	XX	X			
BGL		X	X	X		XX	X	X	XXX	X	X	XXXX	X	X	XX	XXX	X	X		XXX	X	X	X	XX	X	X	XX	XXX	X	XXXX	XX			
BHG		X		XX	X	XXX	X			X	X	XX	XXX	XXXX	XXX	X	X	XXX	X	XXXX	X	X		X	XX	X	XXXX	X	XX	X	X			
BHL		X	X	XX	X	X	X	X		X	XX		X	X	X	X	XXX	XXX	X	X	XX	X		XX	X	X	X	X	X	X	X			
BIM		X	XX			XX		XXX	X	XX																								
BIX			X	XX	X				X	X											X													
BJI		X	XXX	XXXXXXXXXX	XXXXXXXXXX	XX	XXXXXXXXXXXXXXXXXXXX	X	XXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
BKS		X	XXXX	X	X	XXXX	X	X	X	X	X	X	X	X	X	XXXX	XX	XX	X	X	X	X	X	XXXX	XXX	X	X	X	X	X	X	X		
BLA			X	X	X		X	X	X	X	XX	XXX	X		X	XX	XXX	X			XX	X	X		X	XXX	XX	XXX	X	X	XX	X		
BLF		XXXXXXXX	XXXXXX		X	XXX	X	XX	X	XX	XX		X	XXXXXXXX	XXXXXXXXXXXXXXXX	XXXX	X	X	XXXX	XX	XX	XXX	XX	XX	XX	X	X	XXXX	XX	X	X	X		
BLP			X	X		X	X		X	X	X		X				X																	
BLS1		X		X		X		XX	X	X	XX		X	X	X				X	X								XX		X	X	X		
BLS2		X		XX	X		X	XX	X	X			X	XX			X		X	XXX	X	X	XXXX		X	X		XX	X	X	X	XX	X	
BLW																																		
BLY		X	X	XXX	X		X	X	XX	X	X	X	X	X	X	XX	X					X	X	X	X	X	X	X	X	X	X	X		
BMA		X	XX	XXXX	X	X	X	X		XXX	X	X	X	XX	X	X	X			X	X	X	X		XXX	X	X	X	X	X	X	X		
BMG			X	X	X					X	X	X	X	X	X	X	X			X	X	X		X	XX	XX	X	XXX	X	XXX				
BMR			X	XX	XX	X	XX	X	XX	X	X	XX	X	X	X	X	X			X	X	X		X	X	X	X	X	X	X	X	X		
BMW			X	X	X	XX	XXX	X		X	X	XX	XX	X		X	X	XXX	X	X														
BNH			X	X					X	X				X		XX		X	X	X								X	X					
BN1		X	X	X	XX	X	XXXX	X		X	XXXXXXXX	XX	XXXXXXXXXX	XX	XXXXXXXXXX	XXXX	XXXX	X	X	X	X	X	X	XXX	XXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXX	X						
BNS				X		X	X		X	XXX	X	X		X		X	X	X	X	X	X	X												
BNT		X	X	XXX	XX	X	X	X	XXXXXXXXXXXX	XXX	XXX		XXX	X	XX	XXX	XXX	X	XX	XXXX	X	XXX	XX	X	XX		XXX	X	X	XX	XX	XX	X	
BOG			X	XX	X	X	X		X	X	X	XX		X	XXX		X	X	XX	X	XX	X		X	XX	XX	X	XXX	X	XXX				
BOM			XX			X	X			XX						X																		
BPA						X			X	X				X			X	X						X	X	X	X	X	X	X	X	X		
BPI		XXXXX	X	XXXX	XXX	XXX	XX	XX	X	X	XXX		X	XXXXXXXX	XX	XXXX	XXXXXXXX	XX	X	XXXXXXXXXXXXXXXXXXXX	XX	X	XX	XXXXXXXXXX	X	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX		
BRD			X	X	X	X	X	X	X	XX	X		X		X	X		X		XXX	X	X	X	X	X	X	X	X	X	X	X	X		
BRF		X									X	X	X	X		X		X	XX															
BRG		X	XXXX	XX	XX	XXXX	XX	XXX	XX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX		
BRK		X	X	XX	X	XX	X	XX	X	X	X	X	X	XX	XXXX	XXX	XXXX	X	XXX	XXX	X	X	X	XX	X	XX	X	X	X	X	X	X		
BRLK			X	X		X	X		X	XX		X	XXX	X			X	X	X	XX														
BRN			X	X	X	X		X		X		X		X																				
BRS		X	XX	X	XXX	XX	X	X	XX	X	XXXX	X	XX	XXXX	XXX	X	XX	X	X	XX	X	XX	X	XX	X	XX	X	X	X	X	X	X		
BRT		X	XX	XXXX	X	X	X	XXXX	X	XX		XX	XX	X	XX	XXXX	XXXX	X	XXX		XXX		X	XXX	XX	XXXX	XX	XX	X					
BRY		XX	X	X	X	X	X	X	X	X		XXX	XX			X	X	X	XXX	X	XX	X	XX		XX	X	XX	XX	X					
BSD																XX																		
BSF		X		XX	XX	XXXXXXXX	XX	X	XXXXXXXX	XXX	XXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	X	X	X	X	XXXXXXXX	XXXX	XXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX		
BS1						X	XX									XX	XX	X	X															
BSS		X	XX	X	X	X		XX		X		X	X	XX	XX	X	XX		X	XX				X	XXX	XX	X	XX	X					
BTH		X	XXXX	X		X			X		X	X	X	X	XX	XX																		
BTO		X	X	X	XX	XXXX	XXXX	XXXX	XX	X	XXXX	XXX	X	XXXX	XXXX	XXX	XX	XX	XXX	XXX	XX	X	XX	XX	XX	XX	XXXX	XXXX	XXXX	XX	X	XX	XX	
BUC			X	XX	XX	X	X	XX	XX	XX	X	X	X	X		X	XX	XX	X	XX	X	XX	X											
BUC1			XX	XX	XX	X	X		X	X	X	X	X	X		X	XX	XXX	X															
BUD			XX	X	XX			XX		X	XX	XXX	X	XX		XX	X	XX	X	XX	X	X	X		X	X	X	X	X	X	X	X		
BUL		X	XXXXXXXXXX	XXXX	X	XX	XX	XX	X	XXXX	X	X	XXXX	X	X	XXXX	XXXX	XXXX	XXXX	X	XXXX	XXXX	X	XXXX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
BW06		X	X	XX		XX	XX	XX	XX	XXXXXX	X	X	XX		X	XX	XX	X	XX	X	XX	X	XX	XXXX	XXXX	X	XXXX	XX	X	X	XX	X	X	
BWA		X	X	X	X	XX	X	XX	XX	XXXX	XX	XXXX	XX	XX	X	XX	XXXX	XXXX	X	XX	XX	XX	XX	XXXX	XXXX	XXXX	X	XXXX	XXXX	XXXX	XXXX	XXXX		
BZS		XXXX	XX	XX	XX	X	XXXX	X	XX	XXXX	XX	XX	XX	XX	XX	XXXX	XX	XXXX	X	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
CAF		X	XX	X	XX	XX	XXXX	X	X	X	XXXX	XXX	XXXX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	X	X	X	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
CA1			X			X	X			X	X	X	X	X	X	X	X	X	X	X	X	X		XX	X	X	X	X	X	X	X	X		
CALA		XX	XX								X	X	X	X	X	X	X	X	X	X	X	X	XXXX											
CALN			X							XXX		X	X		X	X		X	X	X	X	X		X		X		X		X	XX			
CAN		X		X	XX	XX	X	XX	X	XXX	XX	XXX	XX	XXXX	XX	XXX	XXXX	XXXX	X	XX	XXXX	XXXX	X	XXXX		XXXX	XXXX	X	XXXX	XXXX	XXXX	XXXX		
CAR			X			X	X	X			X	X	X	X	X	X	X			XX					XX	X		X		XX				
CAW									X	X	XX		X	X	X									XXX	X	X	X	X	X	X	X	X		
CAYA									X																X	X	X	X	X	X	X	X		
CBM			X		X	X	XX			X	XXX	X	X	X	XXX	X	X	XX	X	X	XX	X	X		XX	X	X	XXX	XXX					
CBN			X	XX	X	X	X		X	X	X	X	X	X	X	XX	X	XX	X	XX	X	X		X	X	XX	X							
CCB			X		X	X	X	X	X	X	XX	X		XX	X	X	X	X	X	X	X	X	XX	X	X	X	X	X	X	X	X	XXXX	XX	
CCH		X	XXX	XXXXXX	XXXX	X	XX	XXXX	XXXX	X	XX	XXXX	XXXX	X	XXXX	XXXX	XX	XXXX	XX	XXXX	XX	XXXX	XXXX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
CCM			X						X								X																	

[illegible]

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
EPF	x	xx	x	x	xxxx	x	xx	x	xxxxxx	xxx	x	xx	xx	xxx	x	xx				x	x	x	x		x	xxx	x	x	x		xx		
EPLA			xx		x	xx				x	x	x	xx	x	xxx						x	x				xx	x	x	x		x		
EPRU			x		x									x	x	xx	xx				xx	x				x	x	x	x	x	x		
ERDO			xx		x					x			x	x		x					xx	x				x							
ERUA			x							x				x	x	x						x	x			x							
ESEL			xx		x	xx				x					x							x	x			x							
ETA			xx	x	x	x				x	x	x	x	xx	xx						x	x				x	x		x				
ETER			x		x	xx				x				x	x						x	x				x							
ETOR	x	x	xx	x	x	xx		x	x	xx	x	x	x	xx	x	xxxx	xx	x			x	xxx				xx	x		x	x			
EVA	xxxxx	x	xxxxx	xxxx	xxxx	x	xx		x	x	xxx		xxx	xx	xx	xxxxx	xxxxxxx			xx	x	xxxx	xx	xxxxxx	xx	xx	xx	xx				xx	
EVAL			x		x					x				x	x	x	xx				x	xx				xxx	x		x	x	x		
EVIA	x	x	xx		x	xx			xx	x	x	x	xx	x	xxx	xx					xx	x				xxx	x	x	x		x		
EVR	xx	xxxxxxx	xx	x	xxxxx	xxxxxxx		x	xx	xxx	x	xxx	x	x	xxx	xxxxxxx	xxxxx	x	x	x	x	x	x	x	x	xx	x	x	xx	xx	xx	xx	
EVV			x		x	x	x		xx	x	x			xx	x						x				x	x	x	x			x		
EYL														xx	xxxxxxx							xxx	xx	x	xx								
EZN	xxx	x	xxxx	xxxxxxx	xxxx	x	xx	xxxx	xx	xx	xx	x	xx	xx	x	xxx	xxx	xx	xx	xxx	x	x	xx		x	xxxx	x	xx	xx	x	x		
FAI	x	x	x		x			x		xx	x			x	x	x	x	x	x	x	x	x	x			x	x	x					
FBA	xx	xxxx	xx	xxx	xxxxxxx	xxxx	xxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx		
FCH	x	xxxxxxx	x	x	xxxxx	x	x	xx	x	xxxxx	x	x	xxxxx	xxxxx	x	x	xx	x	xx	x	xx	x			xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	xxxxx	
FDF	x	xx		xx	xxx	x	xx				x			xx	x	x		x	x	x	x			x	xx		x	x					
FEL	x	x		xx	xx	x	xxxx			x	xxxxx	xx	x		xxxx				x	x	xx	x	x		x	x	xx	x	xxxxx		x	x	
FFC	x	x	xx	xx	xxxx	x	x	x	xxxxxxx	xxx	x	x	xxx	xx		x	x	xx	xx	x	xx	x	xx	xx	xxxx	x	xx	xx	x	xxxx			
FHC	x	x	xx	x	xx	x		x	x	xxx	x	x	xx	xxx		xx	xx	xx	xx	xx	xx	xx	xx		x	xx	x	x	x	xxx		x	
FIG			x		x					x				x	x												x	x	x			x	
FIN					xxxxxx		xx	xxxxxxx		x	xx	xx	xx	xx	xx						x	x	x	xx	xx	xx	xx	xx	xx	xx	xx	xx	
FIR	x		x	xx	xxxxxx			xxx	xx	x	xx	xxxx	xxx		x	xxx	xxxx	xx	x	xx	xx	x	x	x	xxx	xxx	xxx	x	xxx	x	xxx	x	
FISA					x	x	x	x	x	x	x	x	x	x	x	xx		x	xx	x	xx												
FKO			x	x																													
FLN	x	xxx	xx	xx	xxxx	x	x	xx	x	xxxxxxx	xxx	xxxxxxx	xxx	xxx	x	x	x	xxx	xx	xx	xxx	xxx	xxx	xxxxxxx	x	xxx	xxx	xxx	xxx	xxx	x	xx	
FNA	x									xxxxx	xxxxx	xx		xx	x	xxxx	xxxxx	xxxx															
FORR	xx	x		xx	x	x	xxx	x	x	xxx	x	x	x	xx	x	xxx	xxx	xx	xxxx	xxxx	xx	xxx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	
FRB	xx	x	xx	x	xxxx					xx	x	xxx	x	xxx	x	xxxx	xx	x	xx	xxxx	x	x	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx	
FRF	x		xx	x	xxxxxx		xx	xxxxxxx	xxx	xxx	xxx	xxxxxx	xxx	x	x	xx	xx	x	x	x	x	x	xxxxxx	xx	xxx	x	xxx	x	xxx	x	xxx	x	
FR1	x	xxx	xx	x	xxx	xxx	x	xxxxxxx	xxxxx	x	xx	xxxxxx	xxx	xxxxxx	xxx	xxxxxx	xx	xxxxxxx	xxx	x	xxx	x	xxx	xxx	xxxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	
FRS	xx	x			x	x		x	x	xx	x	x	xxx	x	xxxx	x	xxx				xx				x	x	x	x					
FUQ					x					x																							
FUR			xx	x	xxx	x			x	x	x	x	xx		xxx						xxx	x	x	x		x	x	x	x				
FV1	x	xx	x	xx	xxxxxxx	x	x	x	xxx	xx	x	xx	xxxx	xxxx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	x	xxxxx	xxx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	
FVM		x	xx	x	x	x	x		x	xxxxx	x		x	x						x	x	x	x	x	x	x	xx	xx	x	x	x	xx	
FYU			x				x			x																							x
GAZ		xx	x		x	xxx		xx	x	x				x	x	xx				x	xx				x	xx	x	x					
GBA	xxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxx	x	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxx	xx	xx	xxxxxxx	xxxx	xx	xx	xxxxxxx	xxxx	xx	xx	xxxxxxx	xxxx	xx	xx	xxxxxxx	xxxx	xx	xx	xxxxxxx	xxxx	xx	xx	xxxxxxx	xxxx	xx	xx	
GBTN		x	x		x					x				x	xx	xx					xx	x	x			x	xx	x	x				
GBZT	xxx	xxx	xx	x	x																												
GCC	x	xxxx	x	x	xx		xx	xx	xx	xxxx	x	x	xx	x	xx	xxx	x	xx	x	xx	x	xx	x	x		xxx	x	x	x	x	xx	x	
GDH						xx	x	xxx	xx	xxxx	xx	xx	xxxx	xxx	xx	xxxx	xx	x	x			x	x			xxx	x	x	x			xxx	
GGP			x	x					x	xx	xx	x	x		x	xx	x	x	x			xx				x	x		x	x	xxx	x	
GHO		xxx	xxx	xx	x	x	x	xx	x	xxxxx	x	x	xxxx	x	x		xxxx	x	x	x	xxx	x	x	x	xxx	x	x	xx	xxx	xxxx	xxxx	xxxx	
GIB	x	x	xx	x	x	x		x		xx	xxx	x	xx	x	xx	x	xx	x	x	x					xx	x	xx	xx	x	x	x	x	
GKN	xx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	
GLA	x	xxx	xx	x	xxxx	xxx	x	xx	x	xxxxxxx	x	x	xx	xxxxx	x	xx	xx	x	x	xx	xx	x	x		xxxx	xxxxx	xx	x	xxxx	x			
GLB		x	xxx	xx	x	x	xx	x	xx	x	x		xx	x	x	x	xxxx	x	x	x	xxx	x	x	x	x	x	x	x	x	x	xxx	xx	
GLD		x	x		x	x	xx		x	xxx	x	x	x		x	xxx	x	xx	x	x	x	x	x		x	xxx	x	x	x			xx	
GLM		xx		x	x	x	x	x	x	xx	x	x		xx	x	x	x	x	x	x	x	x	xx	x	x	x	x	x	x	x	xxx	x	
GMTN		x	x	x																													
GMW		xx	x	x	xxx	x		x	x	x	x	x	xxx	xx		xxx				xxxxx	x				x	xx	xxx	x	x			x	
GOL		xxx	xxx	x	xxx	xxx	xx	xx	xxxxxxx	xx	x	xx	xxx	xxx	xx	x	xx	x	x	xx	xx	xxx	x	x	xx	xx	xxxxxxx	x	xxxxx	x	xxxxx	x	
GPA	xx	xx	xx	x	x	x	x	xx	x	x	xx	x	xx	xxx	xxx	xxx	x	x	x	xxxx	x	x	xxxx	x		x	x						
GRC			x		x					x	x	x	xxx	x	xx	x										xx	x						
GRF	xx	xx	x	xxxx	x			xx	xxxx	xxxxxx	xxxxxx	xxxxxx	xxxx	xxxx	xxxx	xxxxxxx	x	x	x	xx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	
GRG	x	x	x	xxx	x	x	xxx	x	x	xx	x	xxx	x	x		x	xxx	x	x	x	xxx												
GRM		x	x	x		xx		x	x	xx		x	xx	xx		x		x	xx	x	xx												
GRN		x			x	xx			x	x		x	x			xx										xx		x	x				
GRR	x	xxx	x	xx	xxxx	x	x	xx	x	xxxxx	xxx	xxxx	x	xxx	xxx	x	x	xx	xx	xxx	x	xxx	xxx	xxxxxxx	xxx	xxxxxxx	xxx	xxxxxxx	xxx	xxxxxxx	xxx	xxxxxxx	
GSC	x	xxx	xxx	x	xxxx	xxx		x	xxxx	x	x	xx	xxx	xxx	xxxxx	xxx	xxxxx	xx	xxxxxxx	x	x				x	xx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	xxxxxxx	
GTA	x	x	xxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	
GUA	x	xx	xx	xx	xxx	xxxx	x	xxx	x	xxxxxx	xxx	x	xx		x	x	xx	xx	xxx	xxxxx				xx	x	x	xx	xx	xx	xx	xxxxxxx	xxxxxxx	
GUAC																																	
GUAN					x	x	x			x	x	xxx	x	xx	x	xx	x	xx	x	xx	x												
GUD	x	x	xx	x	x	xx		x	x	xx	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	29	30	31
MDA		XX		X	X	X	X	XX	X	XX	X	XX						X	X	X	X	XX	X	X	X	X	X	X	X	XXXX	XX
MFS	XXXX	XXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
MHC	X	X	X	XX	XX	XXXX	XX	X	X	X	XXXX	XX	XXXXXX	XX	XXXX	XX	XXXX	XXXX	XXXX	XX	X	XXXX		X	XXXX	X	XXXX	X	XX	XX	XXXXXX
MKC			X	X	X			X		X		X		X				X		X		X		X		X		X			
HLW	X	X	XX	XX	XX	X	X	XX	X	XX	XX	XX	X	X	XX	XX	XX	XXXX	XX	XXXX	X	XXXX	X	X	X	X	X	X	X	X	X
MNR	X	XXX	XXXXXXXXXX	X	XXXX	XX	XX	XXXXXXXXXX	X	X	X	XX	XXXXXXXXXXXX	XXXX	XX	XXXX	X	XX	XXXX	XXXX	X	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXXXX
HOF			X	X	XX			X	X		X	X	X	X	XX			XXX				X	XX		X	X	XX	XX	XX	XX	XX
HOM		X	X	XX	XX	X	X	X	X	XXXX	X	X	XXXX	X	X				X	X	X	XX	XX	X	X	X	X	XX	XX	X	XX
HON		X						X	X	X		X	X				X	XX			X	X	X	X		X					X
HOOJ	X	X	X		X		X		X	X		X	X	X				X		X	X	XX		X	X	X	X	X			
MOR	XX	X										XX	X						X	X											X
HPI					XX							X	X					X													X
HOL	XXX	X	XX	X	X		X	X	X		X	X	X		X				X	X	X	X		X							X
HON		X	X		X	X				X		X	X	X	X			XX		X			X	X	X						X
HRI			X	X	XXXX				XX	X	X	X	X	X	X	XX		XX	X	X	X		XX	X	XXX						
HRT												XX	XX	X	XX	X	XXXXXX	XX	X	XXXX	XX	XXXX									X
MUR		X		X	X	X	X	XX	X		X	X	XX		X			X	XX	X	XX	XXX	X	X	X	X	X	X	X	XXXX	XX
HVAR	X	XX	X	XXXX	X	XX	X	X	XX		X	XXX	XXX	XX	XXX			X	XXX	XXX	XX	XX		XXX	XXX	XX	XXXX	X			X
MVD	XX	X	XX	X		X	X	X	XXXX		X	XX	XX	X	XX			XXXX	X	XX											X
MYA	XX		XX	X	X		XX	X	XX		XX	X	X	XX	XX	X	X	XX	X	XXXX	X							XX	X	X	X
HYB	XXX	XXXX	XXX	XXXXXXXX	XXX	XXXX	X	XXXX	XXX	X	XXXX	XX	XX	XX	XXX			XXX	XXX	X	X	XX		XX	XX	XXXXXXXXXXXX	X				XXXX
HYT	X		XXXX	X	XX		X		X	X	X	X	X	X	XXXX	XX		XXX		X			X								
IAS			XX	X								X	X	X	X								XX								X
IFR		X	X	X	X	X	X	X	XXX	XXXXXX	XX	X	XX	XX	X	XX	XXX	XXX	XXX	X	XXX	XXX	X	X	X	XXXX	XX	X	X	X	X
IGT		XX	XX	XX	XX		XX	XX		XX		X		X			XXX	X	X												
IHA	X	XX					X	X	XXX				XXX	XXX	X	X			X					XXXXXX	X	XXX					X
IIDJ				X	XX		X			X		X							X				XX		XX	X	XX	XX			X
III			X	X	XXX	X	X	X	XXXXXX	X									X												X
IIJ				X	X	X	X	XX	XXXXXX	X	X		X	X	XX				X	X	X	XX	X		X	XX	X	X	X	X	X
IIT			X		X		X	XXX	X					X					X	X	X	XX		X		X	X	X	X	X	X
IMA	XX	XXX	XXX	XXX	XXXX	XX	X	XX	XXX	XXXXXX	X	X	XXXXXX	X	XX	X	XXX	XX	X	XXX	X	XXX	X	XXXXXX	XX						XXXX
IMI	X	X	X	XX	XXXXXX		XX	XXXXXX		X	XX	XX	XX	XX				X	X	XX	XX	XX	XX	XX	XX	XXXX	X	XXXX			XXXX
IMW		XXX	X	X	XXX	XXX	X	XX	XXX	X	X	XX	XX	XX	XX			X	X	X	X										X
INK	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
IPM	X	X	XX	XX	XXXX	XX	X	X	XX	XXXX	XXX	X	X	XX	XX	X	XX	X	XX	XX	X	XX	X	XX	X	XXXXXX	X	X	XX		XX
ISA	X	XX	X	X	XX	XXX	X	X	X	X	X	XX	XX	XX	XX			X	XX	XX	X	X		XX		XX					XX
ISK	XX	X	X		X		XX	X	XX	XX	XX	X	XX	X	XXXXXX			X	X	XX	XXX	X		X	X		XXX	X			
ISR			XX	XX	X	X	X	X	X	X	XX				XXXX	XX	XXXX														
ITM	XX	XXXXXXXXXXXX	XX	XXXXXXXX	XXXXXXXX	XXXX	X	XX	XXXX	XXX	X	X	XXXX	XXXX	XXXX	XXXX	XXXX	X	XX	XX	X	X	X	XXXXXX	XXX	X	XXXX	XX			XX
ITU		X	X	XX	X	XX	X	X		X		X	X	X				X													
IYA	XX	XX	X	X	X	X	XX	X				XXX	X		X	XX		X	XX	XX	XX	X	X	X	X	X	X	X	X	X	X
IZI	XXX	XXXXXX	XX	XXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	X	XXXXXXXX	XXXX	XXX				XXXXXXXX	XXX	XX	XXXX			XXXX
IZM	XX	XXXXXX	XXXXXXXX	XXXXXX	XXXXXX	XX	XXXX	XX	XXXX	XX	X	XXXX	XX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	X	XX	XX	X	XX	XX	XXXX	XX	XX	XX	XX
JACH	X	XXXXXXXX	X	XXXX			X	XX	X	XXXX	X	XX	XXXX	XXXX	XXXX	XXXX	XXXX	X	XX	X	X		X	XX	XX	X	XXXX	X	XX	X	XX
JAU			X																												
JAY					X	X	XX	X										XXX	XX												X
JFO										X	X	X	X	X	X	X															
JMB		XX	X	XX	XX	X		X	X	X	X	X	X	X	X			X	X	X	XX					X	X	X			X
JNW		XX			X	X			X	X		X			XX				X	X	X	X					X				X
JSC	X	X	X		X	X		XX	X	XX	X		X	XX	X				X	XX	X	X			X	XXX	XX	X	XX		XX
JVI		X	X							XXX		X	X		X	X		XXX	XX	X	X	XX	X	X	XXX	X					
KAGJ		X	X	X						X	X	X	X		X	XX			X												
KAKJ				X	XX	X	XX			X	X	X	X	XX	XX	XX		X	X	XX	XXX	X	XX	X	XX		XX	X	XX	X	XX
KAP	X	XXXX	X	X	XXX	XXX	X	XX	X	XX	X	XX	X	X	X	X		XXX	X	XXX	X		XX			XXX	X	XX	X	XX	XX
KAS	X	XX	X	X	XXX	X	X		XXX	X	X	X	XXX	X				X	X	XXX	X		XX		XX	X	X	X	X		
KBS		X	X		X	X			X		X	X	X	XX	X			X	X	X	X		X	X	X		X				
KCT											X	X	X		X	XX	XXX														X
KDZ		XXXX	XX	X	X		X	X	XX	X	X	X	X	X	XX			X	XX	X	XX	X	XX								
KEK	X	XXXXXX	X	X	XXXX	XXXX	X	XX	XX	XX		X	XX	X	XXXX	XXXX	XXXX	X	X							XXX	XX				XX
KER	XXXXXXXXXXXX	XXX	XX		X		XXX	X	XX	X	XX	XX	XXX	XX	X	XX	X	XX	X	XX	XX	X	X	X	XXX	X	XX	X			X
KEV	X	X	XXXX	XX	XXX	XXXX	X	X	X	XXX	XXX	XXXX	XXXXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
KFNJ		XX	X					X				X	X	X	XX	X															X
KGM	X	X	X	X	XX	XX		X		X	X	X	X	X	X	X		X	X	XX	X	XXX	X	X	X	X	X	X	X	X	X
KGT												X		X	XX	XXXXXX			X	XX	X	XX	X								X
KHC	X	XXX	XX	XXXX	XXXX	XXXX	X	XXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
KHL	X	X	XXXXXX	XX	X	X	XXXX		XXXX	X	XX	XXXX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	X	X	XXXX	X	XXXX	X	XXXX	XX	XXXX	XXXX
KHZ									X	X	XX	X		X	XX	XX			X	XXX	X				X	X	X	X	X	X	XX
KIC	X	XXX	X	XXXX	XXXXXXXXXXXX	XX	X	XX	XXXX	XXX	X	XX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
KIM	X	XX	X	X		X	X	XX	X	XX	XX	X	X	XX	X	XXX	X		XXX	X	XX	XX	XX	X	X	X	X	XX	X	XX	X
KIW								X	X	X		X		X																	
KKB	XX	XXXXXXXX	XX	XX	X		X	X	XX	X		XX	X	X	X	XXX		XX	XX	X	XX										
KKM	X	X	X	XXXX	XX	X	XX	XX	X	X	XX	XX	X		X	XXX	X	X	XX	X	X	X	X	X	XXX	X	XXX	X	X	X	X
KKN	XX	XXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX																											

[illegible]

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MCO		X	X			XX				X		X		X		X				X	X	X	X		X	X	X	X					
MCW		X				X	X			X	X	X	X	X	XX	X			X	XX	X					XX	X						
MDI			XX	X	X	XXXXX		XX	XXX	X	XX	XX	XXX	XXXXX	XXX	XXXXX			XXXXX	XXXX	XXX	XXX	X	XXX	X	XXX	XX	XXXXX	XXX	X			
MDJ	X	X	X	XX	XXX	XXXXX	XX	X	XX	XXXXX	XXX	X	XXXXX	XXX	X	XXX			XX	X	XXX	X	X	XXX	X	XXX	XX	XXXXX	XXXXX	X	X	XXX	
MDZ	XX	XXXXX	XXXXX	XXXXX	XX	XXXXX	X	X	XX		X	XXX	XXXXX	XX	XXXXX	X	X		XXXXX	X	X	X	X	X	X	XX	XXXXX	XX	XXXXX	XXXXX	XXXXX	XX	
MEKA	XX	X	XX	X	X	XXX	XX		X	X	X	XXXXX	X	X	XX	XXX	XX	XX	XXX	XX	X	X		XXXXX	X	XXX	X	X					
MEM	X		XX						X	X	XXXXX	XX	XXXXX	XXX	X	X			X	X	XX	X			XXXXX	XX	X	XXXXX	XXX	X	XX		
MEO	X	X	X		XXX	XX	X		XX	XX	XXXXX	X	X	X	XX	XXX			X	XXX	X	X	X			XX	X	XXXXX	XX			XXX	
MEU							X	XX											X						X	X	X	XX	XX	X	X		
MFF	XX	X	XX	XX	XXXXX	XX		X	X	XXXXX	XX	XXXXX	XXXXX	XXX	X	X	X		X	XXXXX	XX		XXX	X	XXXXX	X	X	XXXXX	XXX	XX	XX	X	
MGG		X	X		XX	X	XX					X	X	X		X			X			X	X	XX		X		X				XX	
MGH	X	X			XXXX	XX	X			X			XX	X	X	X	XXXX		X	X		XX	XX	X	X	X	X	X	XX	XX	XX	XX	
MGP				XXX	XX					X					X				XX	X		X	XX		X		X	XX				XX	
MGR	X	XXX	XX	X	X	XXX	X	XXXXXX	X	XX	XXX	X	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX			XXXXXX	X	XXX	XX	X		XX	XXXXXXXXXXXXX	XXXXX					X	
MHC	X	XXXX	XX	X	XXXX	XXX	X	X	XXXXX	XX	XXXX	X	XX	XXXXXX	XXX	XXXXX			X	XXXX	XXX	X	X	X	X	XX	X	X	X	XX	X	X	
MHZ							X			X	X	X	X	X	X							X										X	
MID		XX		X	X	X		X			X		X	X																		X	
MIN		XXX	X			X		XX	XX	XXX	XX				XXX	XX	XX			X	XXXX	X	X		X	XX	XX	X	XX		XX	X	
MJMA	X	X	XX		X	X				XX					X	X			X	X					X	X						X	
MKS		XX	X	XXX	X	X	X	X	X	X			X							X	X					XX	X	X	XXX	X	XX		
MKT		X	X										X	XX	XX	X	X		X	XX		X	XX	X	X	X	X					X	
MLR	XXXXXX	XX	XX	X	X	XXXXXXXXXXXXXXXXXX	XXXXXXXX	X	X	XXXX	XXXXXXXXXX	XXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX			XXXXXX	XXXXXX	XXX	X	XX	XXXXX	XXXX	X	XXX	XXXX	X	XXX	XXXX	XX	
MMB	XX	XXXX	X	XXXXX	X		X	X	X		X	X	XX	XX	X	X	XXX		X	XX	X	XX		X	X	XXX	XX	X				X	
MMCZ						X		X	X	X	X		X		X	XX																X	
MME		XX	XX	XX	XX			XX	X		XXXXX	XXXXXX								X		X		X	XXXX	X	XXXX	X	XX	X	X	X	
MMK	X	X	X	XXXXX				XXX	XX	XX	X	X	XX	XX	XXX	X			XX	XX	X		X	X	X	XX	X	XXX		X	XX	X	
MNDI		X	X				X	X			X				XX	XX						XX		XX	XX	X	X	XX	X	X		X	
MNG					X		X	X	XXXX	X	X		X	XX	X					XXXXX					XXX	X	X	X	X	X	X	X	
MNI	XXXX		XXXX	X	XXXX	X									XXXXX	XX			X	XX	X	XX		X	XXXX	XX						XXX	
MNO	X	X	X	X			X	X		X	X	X	X		X				XX	X	XX	XX			XX	X	X	XXX		X	X	X	
MNS	X		XXX	X	X	XXXXXX	X	X	X		X	XX	XX		XXXXXXXXXX	X			XXXXXXXXX	X	X	X			XX	XXX	XXX	XXXXXXXXXX	XXXX	X			
MOE																			X	X	X	X			X		XX		XX		XX	X	
MOF	X		XX		X	XX			XX	XX	X		X		XXXX				X	XX	X		X		XX	X	X	XX				X	
MOL	X		X		X			XX		X		XX		XXX	X	X			XXXX	X	X	XX	X									X	
MOMI												X	X	X	XX																	X	
MORO											X		X						X						XX	X						XX	
MOW											X		X	X	XX	X					X	X			X		X	X	X	X	X	X	
MOX	XX	X	XX	X	XXXXX	XX		XX	X	XXXXX	X	XXXXXX	XXXXXX	XXXXXX	XXXX	XXX			XXX	X	X	X	X	XXXX	X	XXXX	XXXXXX	XX	XXXXXX	XX			
MOZ										X	X		X	XX	X	X										X	X	X	X	X	X	X	
MRRJ							X	X		X		X	X	X	X	X			X	XX		XX			X	X		X	XX				
MRW				X				X	X	X	X		X	XX	X					XXX	X		X	X	X	X	X	X	X	X	X	XX	
MRWA		XX	X	X	XX	XX	XX	X	XXXX	XXXX	XX	X	XX	XX	XXXX	XX	XXXXXX		XXXX	X	X	X	X	XXXX	X	XX	X	X	X	X	X	XX	
MRX		X		XX		X	XX	X	X	X		X		X	X	X			X	X	X	X		X								X	
MSU	XXX	X	X	X	XXX	XX	XX	XXXX	XX	XX	X	XX	XX	X	X	X			X	XXX		X	XX	X		XXXXXX	X	XXXX	XX				
MSZ										X	X		XX	X		X																X	
MTE	X		XX		X	X		XX		XX	X		X	XX	X	X	XX			X	X						X	X	X	X		X	
MTH		XXX	X		X	X	X	XX					X	X	X	X	X						X									X	
MTMJ	X		X		X	XX		XX	X	X	XXX	X	XXX	X	XX	XX	XXX			XX	X	XX			X	XXX	X	X	XX		X	X	
MTN	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXX	X	XXXXXXXXXX	XXXX	X	XXXXXX	XX	XXXXXX	XXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX			XXXXXXXXXX	X	X	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
MTUR		X					XX					X	X	X		X																X	
MTW								X	X	X	X		X	XX	X					XXX					XXX	X	X	X	X			X	
MUN	X		XXX	XX	XX	X	X	XXX		X	XXXX	XXXX	X	X	XXX	X	XXX		XX	XXX	XX	X	XX		XXXX	XXX	XX	X	XX	X	X	XX	XX
MVIF			X					X	XXXXXX	XX	X		X	X	X					X	X				X		X					X	XX
MVM	X	XX			XX	XXX	X	XX			X		XX	X	X				X	X	X	X		X	XX	X	X	X					
MVO			XX		X	X		XX		X	X	XX	X		XX																	X	X
MWC	X	XXX	X	X	XXXX	X	X	X	XXXX	X	XX	X	X	X	XXX	XXX	XXXXX		XX	X	XXXXX	X	X		XXXX	X	XXXXXX					XXX	
NA2		X	X												X	X																X	
NA1	XXXXXXXXXXXX	XX	XXXX	XXXX	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXX	XXXX	XXXX					XXXX	XXXX			XXX	XXXX	XX	X	XX	XXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	X
NANU	XX	X	XX	XX	XX	XX	XXXX	XX	XXXX	X	XXXX	X	XX	XXXX	XXXX	XX			XXX	X	XXXX	XXXX	XX	XXXX	XXXXXX	XXXX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
NAO															XXXXXXXXXX				XXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	
NAV		X												X	X					XX					X	XX						X	
NB2	XXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX			XXXX													XXXXXXXXXXXXXXXXXXXXXXXXXXXX	
NCC	X	XXX	XX	X	X	X	XXXX	X	XXXX	X	X	XXXX	X	X	X	X			XXXX	X	X	X	XXX	X	X	XXXX	X	XX	XXX	X	XXXX	XX	XX
NDE								X	XX			X								X	X											X	
NDF	X						X	X	X	XXX	X	X	X	X	X	X	XX			X	X	X	X				XXX	X					X
NDI	X	XXXXXX	XXXXXXXXXXXX	XXX	X	XXXXXXXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXX	XX	XXXX	XXXX	XXXX	XXXX	XXXX			XXX	X		XXX	XXXXX	XXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
NEO	X	XXXXXX	XX	X	XXXX	XXXXX		XX	XX	XXXX	X	X		XX		XXX	XX																XX
NEV	X	X		XXX		X	X																										XX
NEW	X	X	XX	X	XXXX	XX	XX	XX	XXXXXX		X	XX	XX	XX	XX	XX	XX		X	XXXX	X	X	XX	XXXX	X	XXXX	X	X	XX	X	XXXX	X	XX
NI1J		X		XX		XX		X	X		X	XXXX	X	XX	XXX				X	XX		XX			X	X	X	X	XX	XX		XX	X
NJ2	X	X	X	XXXXXX	XXXXX	X	XX	X																									

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NPS		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
NRA8	x		x	x	x		x	x	x	x	x	x		x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
NST		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
NUR	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
NWAO		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
NWRM																															
OCO		x	x	x																											
ODD1	x		x	x																											
OFUJ		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
OGA		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
OHR																															
OJEN	x		x																												
OLLA																															
OLY																															
ORI																															
ORO																															
ORV	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
ORX		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
OSS		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
OUR		x																													
OXK																															
PAE																															
PAG																															
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PKEM																															
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PPCY																															
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PPR																															
PPT																															
PRI																															
PRK																															
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PRNI																															
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PRY	XXXXX	XXXX	XXX	XXXX	XXXX	XXX	XXX	X	XXXXX			X	X	X	XXX	XXXXXXXXXX	X	XXX		X	XXXX	XXXXXXXXXXXX	XXXXXXXXXX	X	XX	X	XXXX	X	XX					
PSI																XXXXXXXXXX		XXXX																
PSM				X		X				XXX	X				X						X							X	XXX	X				
PSN			X	X	X	X				X		X		X		X					XX		X											
PSO		X			X						X	X	X	X		XXX		X				X	X				XX	X	X	X		XX		
PSZ			X			X	X		XX	XX		X	X	X		X	XX			XX	X	X	X	X			XX	X		X				
PT02	XX	X	X	XX																														
PT03	XX	X	X	X		X																												
PT06	XX	X	X			X	XX	XX	XX	X	XXX	X	X	X		X	XXX	XX	X	X														
PT08	XX	X	X	XX		X	X	X	XX	XX	XX	XXX	X	X	XX	X	XXX	XXX	XX	X			X	X	XX		X	XX	XX	XXXX	XX		XXX	X
PT10	XX	X		XX		X	XX	X	XXX	XXX		X	X	XX	XX	XX	XX	XX	XX	X	X	X	X	X	X	X	XX	XX	XXX	X		XXXX		
PTI						X					X	X		X		X					X													
PTJ	X		XX	XX		XXX	X	X	X		XX	XXX	X	XX	XXXXXXXX	XXXXXX	XXX	XXXXXXXXXXXX	XXX	XX	X	X	X	X	X	XXX	XX	XX	XX	XX	XX	XX	X	
PTO						X	X																											
PTT			X	X	X	X	X				X	X																						
PUK			X		X	X	X		X	XX	X		X		X																			
PUZ							X		X	X	X	X	XXXX	X	XX	X		XX	XX	X	XXXX	XX					X	XX	X	XXX	X	X	X	
PV09									X	X																								
PVC	X				X		X	XXXX	XX	X	XXX	XXXXXXXXXX	X	X	XX	XXXX	X	XXXXX	XXXXXX	XXXXXX	XXX		X	X	X	XXXX	XXXX	XXXXXX	XX	X	XX	X		
PVL		XX	XX	XX	X	X	X					X	XX	X		XX				X	X	XX	X				XX	X		X				
PVY		XX	X	X	X		X	X	XX	X		X		XXX	XX		X	XX		X	XX	X	XX			XX	X		XX	X	X			
PWA			XXX	XXX	X	X	X	XXXX	X	X	XXXXX	X	X	XX	XXX	X	X		XXXX	X	X	X	XXX	X	X	XXXXX	X	XX	X	X		XXXX	XX	
PYM							X						X	X	X	XXX	X	XXX																
PZZ	X	X	X	XX		XXXXXX	X	XX		XXXXXXXXXX	XXXXXXXX	X	XX	XX		X	X	X		X	X	X												
QASM			XX			X	X			X	XX	X		X	X	X	X	X		XX	X	X												
QCP				X	X	XXX	X	X		X	XXX	XXXX	X	X	X	X	X				X	X	XXX	XX			X							
QIS	XXXX	X	XXXXXXXX	XXXXX	X	X	XX	XX	XXXXXXXXXXXX	X	X	XXXXX	X	XXXXX	X	XXXXX	XXXXX	XXXXX	X	XX	XXX	X	X	XXX	X						XXXXXXXX	XX	X	
QIZ	X	X	XX	XXXXX	XXXXXX				X	XXX	X	X	XXXXX	X	X	XXXXXX	XXX	XXX	X	X	X													
QLP	X		X	XX	X	X	X			X	X	XX	XX	X	X	X	XX				X	XX												
QTO								X	X		XX	X	X		X	X	XXX		X	X		XX												
QUE	X	XXXXXXXXXXXXXXXXXXXXXXXXXXXX					XXX		XXXXXX		XX	X	X	XX	XX	XXX	XXX	XX	XXX	XXXX	XXXX	XXXX	X	XXXXXX	X	X	XXXXXX	XX						
QUR			X			X	X		X	X		XX	XX	X	X	X	X	X	X	X	X	XX	X											
QZH		X	X	XX	XX	X	X	X		X	X	XX	XX	X	X	X	X	X	X	X	X	X												
RAB	X	X	X		XX				X	X	XXXX		X	X		XX	X	XXX	XXX	XXX	XXX	XXX	X											
RDO	XX	XXXXXX		X	X	XX		X	X	X	X	X	X	X	X	XX	XX	X		XX	X													
RDP			X		XXXX									X	X	XXXXXXXX	X	XX	X															
RDT	XXX	XXX	XX	X	X	X		XXX	X	X	XXXX	X	X	XX	XXX	X	X	X		XXX	X	X	X											
RED	XXX	XX	XX	X	X	X		XXX	X	X	XXX	X	X	XX	XXX	X	X		X	X	X	X	XX	X	X	XXX	X	XX	XXX	X				
REVf			X			X																												
REY			X		X	X																												
RIV	X	X		XXX	X	XXX	X	X	X		X	XX		X		X	XX	X		X	X	XX												
RJf	X		X	XX	XX	XXXXX	X	X	X	XXXXXXXXXX	XXX	X		XXXXX	XXX	X	X		XXX	X	XX	X	X											
RKG																																		
RMN			X			X	X				X	XX	X	X	XXX		X	XXX	X	XX														
RMP				XX	X	X	X																											
RMQ	X		XXX	XX	XXX	XXXX	XX	X	XXXX	XXX	XX	XXX	XXXX	X	XXX	XXXXX		XXX	XXXX	XXX	X	X	XXX											
RMW			XX	X	X	XXX	XXX	X	X		XXX	XX		X	XX	XX	XXX																	
ROB	X	X	X	XX		XXXXXX				XXXXXX			XX	XXXX	XX	XX																		
ROCH	XXXX		XXXX	X	XXXXXXXX	X	X	XX	X	XXXX	X	X	XXXX	XXXX	X	X	XX		X	XX	X	X												
RRL	X	X	X	XX		XXXXXX	X	XX		XXXXX			XXXXXXXX	XX	XX																			
RRO		X	X	X																														
RSCP																																		
RSM																																		
RSNY																																		
RSP																																		
RTBS	X	XXXXXXXXXXXX	X	XXXXXXXXXXXX	XXXX	XX	XXXXXX		XX	XX		XXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
RTCB	X	XXXXXXXXXXXX	X	XXXXXXXXXXXX	X	XX	XX	XXXXXX	X	XX			X	XXXX																				
RTCV	X	XXXXXXXXXXXX	X	XXXXXXXXXXXX	XXXX	XX	XXXX		XX	XX			X	XXXX	XXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
RTLL	X	XXXXXXXXXXXX	X	XXXXXXXXXXXX	XXXX	XX	XXXXXX		XX	XX			XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
RTRS	X	XXXXXXXXXXXX	X	XXXX		X	XX	XX	XXXXXX		XX	XX		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
RUP																																		
RUV	X		X		X	X		X		XXX	X	X	X	X	X	X				X	X	X	X			XXXXXX	X	XX	X	X				
RVR	X	XX	X	X	XXXX	XX		X	X	XX	XXXX	X	X	XX	XX	X	XXXX		XX	X	X	XXX	X											
RYD		X	X	XX		X																												
RZN		XX	XXXXX	XX	XXXX																													
SAL				X	X	XXXXX	X			X	XX		XX	X	XXXXX	XXX	XXXXX		XXX	X	XXXX	X												
SALJ			XX	XX		X	X		XX																									
SAN	X		XXXX	XXX	X	XXXXX	X	X					X	XXXX	X	X	XXX	X	XX															
SAO	X		XXXX	X	X	XX	X	X	X	X	XX	X	X	XX	XXX	XX	X	XX		X	X	XXXXX	X	X										
SAOF																																		
SAP																																		
SAX																																		
SBA	X	XX	X	X	XXXX	XXXX		X	XXX	XXXXX	X	X	XX	XX	X	X	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	
SBB	X	XXX	XXX	X	XX	X	XXX	X	X	X	XXXX	X	X	XX	XXXXXXXX	X	XXX		XX	X	XXXXX	X	X											
SBF		X																																

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SDN			X	XX	XXXX	X				XXX	X		X	XX	XX	XX	XX			XX						X				XX		
SDV			X	X	X				X	X	X	X		X	XXXX	XX	XX	X	X							XX	X	X	XX		XX	
SEK	XXXXX	XXXXXXX	XXXX	XXXXX	X		XXX	XXXXXXX	X	XX	X	XX	XXX	XXXXXXX	X	XX	XXXX	XXXX	XXXXXXX	XXXXXXX	X	XX	X	XXXX	X	XX	XXXX	XXXX			X	
SES	XX	X	X	XX	XXX	XX	X	XXXX	XXXXXX	X	XX	X	XXX	XXXXX	X	XXXXXXX	XXXXXXX	XXXXXXX	X	XXX	X	XXXX	X	X	XXX	X	XX	XXX	X	XXXX	X	
SEW	X	X	XXX	XX	X	X	XXX	X	X	XXX	X	X	XXX	X	X				XXXX	X	X	XXX	X	X	XXX	X	XX	XXX	X	XXX	XX	
SFG							X	X	X				X	X			X	XX	XX	X					X	XX		X				
SFI	X		XXX	XX	XXXXXXX				X	X	X	X	X	X	X	XX	X	XX	XXX	XXXX	X	X	X		X	XXX	XX	XXXX	X	XXX	X	
SGE	X	X			X		X	X	XXX	X		X	X	XX	XX		X	X	X	X	X	X	X		X	XX	X			X		
SGO	X	XXX	XXXX	X	X	X		XXXX	X	XX	XX	XX	XX	XXXXXX		XXXXXXX	XX	XXX	X	XXX	X	X		XX	XXXX	XXXXXXX	XXXXX	X	X	X		
SHK			X		XX			X	X	X		XX				X		X						XX		XX		X	X	X		
SHL	XX	XX	XXX		XXXX		X	XXXX	XXXXX						XXX			XXXXXX						XXXX		XXXXX	XXXXX	XXXXX				
SHNJ			X				X			X	X	X	X		X	XX		XX					XX		X							
SHU							X	X	X	XXXX	X			XXX	X	X			X	X	X		XX		X	X	X	X		X		
SIO		XXX	X	X	XXX	X		X	X	XXXXXX				XX	X	X		X	XX	XX	X		XX	XXXX	XX	X	XX		X	XXX		
SIT		X	X	X	X	X		XXX	X	X	X	X	X	XX	X	X	X	XX					X	X	X	X						
SIV	XX	XXXXXXXXXXXXXXXX	X	XX	XXXX			X	XXXXXXXXXXXXXXXX	XXX	XXX	XXXX	XXXXXXXXXX	XXX	XXX	X	XXXXXX	XXXXXX	X					XXXX	X			XXX	XXXXXXXXXXXXXXXX			
SJG	X		XX	X			X			X								X	X	X					X	X	X	X				
SKO	XXXXXXXXXXXX	XX	XXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXX	XXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
SKT	XXX	X		XX	X	X	XXXX	X	X	XXXX	X	X	XX	XXX	X	X		XXXX	X	X	X	XXX	X	X	XXXX	X	X	XX	XXXX	XX	XXXX	XX
SLB					X								X				X	X					X	X	X	X	X	X			XX	
SLE		X	X	XX	XX	XXXX				XX	XX	XX	X	XX	XX	XXX	X		X	XX	X		X	X	X	XX		XXX	XX	X	XX	
SLKM	X	XXX	XX	X	X	X	XXX	X	X	XXXX	X	X	XX	XXX	X	X		XXXX	X	X	X	XXX	X	X	XXXX	X	XX	XXX	X	XXXX	XX	
SLR	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	
SMF	X	XXXXXXXX	XXX	XXXXXXXX	XXX	XX	XXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	
SMG	X	X	XXXX	XX	X	X	XXX	XX	X	XX			X	X	X	X	XXX	X	X	X	X	X		X	X		XXX	X	X			
SML	XXX	XXX	XX	X	X	X	XXXX	X	X	XXX	X	X	XX	XXX	X	X		XXXX	X	X	X	XXX	X	X	XXXX	X	XX	XXX	XXXX	XX		
SMY	X	X	X		X				X	X		X	X	X	XX	XX		X	X	X	X			X		X		X				
SNF		XX							X	XX	XX	X	XXXXXX	XXX	X		X						XX	XX	XXX	X	X	X				
SNJ	X	X	X	XXX	X	XX	X	X		XXX	X	X	X	X	X	XXX	X	XX		X	X	X			X	XX	XXX	X	X	X	X	X
SNY	X	XX	X	XX	XXX	XXXX	X	XX	X	X	XXX	X	X	XXXXXX	XXX	XXXXXX	XX	XXXX	XXX	X	XXX			X	XXX	X	XXXXXXX		X	XX	XXX	
SOD	XXXXXXXX	XX	XX	XXX	X		X	XX		XXX	XXXXXXXXXXXXXXXX	XXX	X	X	XXX	XXXXXXXXXXXXXXXX	XXX	X	XXX	XXXXXXXXXXXXXXXX	XXXX	X	XXX	XXXXXXXXXXXXXXXX	XXXX	XX	X					
SOI	X	X	XXXX	X	XXXXXX	X	XXXX	X	XXXX	XXX	XXXX	XXXX	XX	XXXXXX	XX	X	XX	XXX	X				XXXXXX	XXXXXXXXXXXXXXXX	XXXX	X						
SOP		XX	XX	XXXX	X		X		X	X	XX	X	XX	XX	X	XX	X	X	X	XX	X		X	X		X	XXXX	X				
SPA	X	X	X	X	X	X	XXXX	X	XXXXXXXXXXXX	X	XXX	X	XXXXXX	XXXXX	X	XXXXXX	XXX	XXXX	X	XX	X	X	XXXXXX	XXXXXXXXXX	X	XX	X					
SPC	X	XX	X	X	XXXX	XXXX	XXXX	X	XXXX	XX	X	XX	XX	XX	XXXXXXXXXXXX	X	XX	X	XXX	XX	XXX	XXXX	XXXXXX	XXXXXX	X	XX	XX					
SPU	X	XXX	XX	X	X	XXX	X	X	XXX	X	X	XX	XXX	X	X		XXX	X	X	X	XXX	X	X	XXXX	X	XX	XXX	XXXX	X			
SOTA	X	XXX	X	XX	XXXXXXXXXXXX		XX	X	XXX	XXXX	XX	XXX	XXXX	XXXX	XXXX	XXXXXXXXXXXX	XXXX	X	XXX	X	XXX	XXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
SRN		X	X	X	X	X	X	XX		X	X		X	X	X	XXX	X	XX	X							XX	X					
SRO	X		X	XX	X	XXXX	XXX	XXX	X	XXXX	XX	X	XXX	XX	XXXXXXXXXXXX	XXXX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
SRS	XXX	X	XXX	X	X	XX	X	XX	X	XXX	X	XXX	X	X	XXX	X	X	X	X	XXX												
SSE	XXXXXXXXXXXX	XXX	XXXXXXXXXX	X	XXX	XX	XXX	XX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	
SSF	X	XXX	XX	XXX	XXXX	XXX	XX	XXXXXXXXXXXXXXXX	XX	XXXX	XXXXXXXXXXXXXXXXXXXX	XXX	XXX	XXX	XXXXXXXXXXXXXXXXXXXX	XXX	XXX	XXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	
STK	XX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	
STS		X					X			X			X		XX																	
STV	X	X	X	XX	XXXXXX	X	XX	XXXXXX		XXXXXX	XX	X		X	X	X		XXXX	X	X	X	XXXX	X	X	XX	XX	XX	XX	XX	XX	XX	XX
SUA	X	X	X	XX	X	X	X	XXXX	X	XX	XXX	X	X	XX	X	X		XXXX	X	X	X	XXX	X	XXXX	X	XX	XXX	X	XXXX	XX	XXXX	XX
SUE	XX	XX	XX	X	X	X	XX	XXXX	X	XX		X	X		XX	X	X		XXX	X	XXX				XX	X	X	X	X	X	X	
SUF	X	XXXXXX	XXXX	XXXX	X	XXXX	XX	XXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	
SURF										XX	X		X												XX	X	X					
SVA	X	X		X		X	X	X	XXX	X		X	X	XXX	X	X	XXX	X	XX	X	X	X		X	X	X	XXX	X				
SVB					XX										X									X		X	X	X	XX			
SVW	XX	XX	XXX	XXX	XXXX	XX	XXXX	X	XXX	XXX	X	X	XXX	XXXXXX	X	XX		X	XX		X	XX	X	XXX	X	XXXXXXXXXX	XX	XX	XXX	XXXX	XX	
SWZ																								XXXX	XX	XXXX	XXXXXXXXXXXX	X	XXXX			
SYP		X	X	XX	X	X	XX	X		X	X	X	XX	XX		X		X	X	X	X				X		XX	X				
SZP	X	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	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	
TAB	XXXXXXXXXXXX	X	XXXX	XX	X	X	XXX	X	XX	XXXX	XX	XXX	XX	XX	XX	XX	X	XXX	XXXXXX	X	XX	X	X	X	X	X	XX	X	XX	X	XX	
TACH	X	XXXXXXXXXX	X	XXXXXX	X		XX	X	XXXX	X	XX	XXXXXXXXXX	X	XXXX	X	XX	X							XXXX	XXXX	X	XXX	X	XXXXXX	XX		
TAF		X		X								X	X	X	XX	XX																
TAZ												X		X	X												XX	X	XX			
TBI						X	X			XXX		X					X		X							X		X				
TBR		X	X	X					XX	X	X	X		X	X	XX									XX	X						
TCE								X	X			X												X		X	X	X	XX			
TCF	X	XXX	XXXX	XX	XXXX	X	XX	XXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
TCW							X	X	X	X		X	XX	X									XXX	X	X	X	X	X	X	X	X	
TDS	X	X	XXXX	X	X	XXX	X	XXXX	XXX	XX	XXXX	XX	XXXX	XX	XXXX	XXXX	XXXX	X	XXX	X	X	X	X	X	X	XXXX	XXXX	X	X	X	X	
TEH		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXX	X	XXX	XX	X	XXXX	X	XXXX	X	X		X	X	X	X	X	X	X	X	X	X	X	X	XX	XX	X	XXXX	XX	XXX	
TGL		X		X	X	XX		XX				X	X	X	X		XXXX	X	X	X	X	X	X	X	X	X	X	X	X	X	XX	
THE	XX	X	X	X	X		XXXX	X		XX	X	XXX	X	X	X		XXX	X	X	X	XXX											
THZ							X																									

[illegible]

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						
YKA	XX		X	XX					X	XXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	X	XXX	X	XXXX	XXXXXXXXXX				XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX														
YLV											XXXXXX	XX																				X	X	X	XX	XX	X
YONJ			X								X	X	X			X	XXX		XX				XX		X			XX	X								
ZAG	X			X	XX	XX	X	XX	X		X	XXXX		XX	XXXX	XX	XXX		XXXX	X	X	X				X	X	X	XXX	X					X		
ZLA		X		XX	XX	X	XXX				XXX	XX	XX	X	XX	XX	XXX			X	XX	X			X	X	X	XX	X		XX			XX	XX		
ZNT			X			XX					XX		XX	X		X						X						X		X							
ZOBO	XX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	
ZON	X	XXXXXXXXXXXXXXXXXXXX	X	XXXXX	XXX	XXXXX	X	XX	XX	X	XXXXX		XXXXXXXXXX	X	XX	X	XX	XXX	X	X	X		X		XX	XXX	X	XXXXX	X	XXXXX	X	XXXXX	X	XX			
ZSP			X		XX		X	X			X	X	X	X	X	X				X	X			X	X		XXX			X				X			
ZST	XXX	XXXX	XX	XX	XXXXX	XXXXXXXXXX	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	XXXXXXXXXXXXXXXXXXXX	XXXXX	XXX		

The following stations each reported less than 10 readings:

ABHA	ABTN	ACTN	ACU	AFAR	AHA	AIN	AMAN	ANCC	ANTN	ANTO	APA	APM	APW	ARV	ASR	ASW	ATA
ATZ	AUH	BBJ	BDF	BEE	BERA	BERF	BGM	BGMT	BIB	BJA	BKB2	BKR	BLH	BLN	BLO	BOH	BOT
BRTN	BRW	BST	BUGC	BURJ	BUT	BVA	BVW	CBD	CBSW	CCW	CDFW	CEI	CFTV	CGL	CHIE	CIRL	CIS
CIW	CLE	CLMC	CMW	COL	COP	COR	CPB	CPE	CPH	CPK	CPW	CRF	CRO	CRT	CRZF	CSIL	CTAO
CTFE	CTI	CUSS	CVA	CVT	CYK	CZM	DAF	DAH	DBCT	DBO	DCN	DES	DHLJ	DHW2	DIAC	DMK	DMW
DOG	DON	DOR	DPMT	DRZ	DSH	DWM	EAB	EALH	EAU	EBG	EBH	EBL	EBZ	ECD	ECK	ECOG	EDI
EDR	EDU	ELO	ELYF	EMEL	EMM	EMN	EMS	EPH	ERC	ERK	ESCF	ESD	ESK	ESR	ESY	ET2	ETW
EZAM	FAM	FAR	FL2	FMW	FOC	FOO	FRO	FRU	GANF	GBL	GBR	GCM	GELF	GGC	GHW	GIBL	GIN
GL2	GLH	GLK	GMB	GOIL	GRB1	GRC1	GRFO	GRI	GROR	GRT	GSM	GT2	GULW	HAKY	HAL	HATZ	HAY
HBF	HBH	HBMT	HDW	HIA	HIL	HIN	HITZ	HKL	HLBJ	HLD	HLP	HMH	HMT	HNB	HOBC	HOJ	HOOC
HPO	HPU	HRV	HRV	HSR	HTC	HTW	HUG	HUH	HUL	HUTZ	HWV	IIA	IIC	IKP	ILT	INY	IRK
ISSF	IXG	JARJ	JAT	JBO	JCW	JLK	JMI	JNE	JOZ	KAE	KAIM	KBA	KBN	KBR	KFH	KHU	KIH
KIP	KIR	KKH	KKU	KLL	KMOR	KMSA	KNH	KOH	KONO	KOSW	KOT	KPO	KSU	KUH	LDMO	LFU	LHE
LISJ	LMTN	LMW	LNOR	LOCW	LPI	LRDO	LST	LTMT	LVNJ	LVP	MADF	MAJO	MASJ	MBW	MCMT	MCT	MDN
MDSJ	MDW	MEMT	MEP	MEX	MFT	MFTN	MGB	MHA	MHI	MILT	MIM	MJ2	MKA	MKL	MKRJ	MLH	MLS
MLX	MML	MOH	MSI	MTMW	MTU	MVH	MWH	MXC	MZX	NAB	NAC	NEA	NGH	NGZ	NHIL	NLO	NLW
NPH	NRMS	NSS	OBN	OBO	OD2	OGE	ONTN	OHW	ONR	ONTN	ODW	OPA	ORT	OSD	OUT	OVA	PAF
PATW	PCF	PCG	PCHF	PCO	PEM	PET	PFH	PGA	PGO	PGW	PKL	PLDF	PLL	PNL	POH	PPF	PPL
PRAF	PRN	PRW	PTS	PUN	PUL	PURC	PUYF	PVPS	PWH	PWLA	PWV	PZI	QTFJ	OZA	RAGM	RAO	RAR
RBA	RC1	REC	RECU	REMR	REMW	RFI	RGS	RIM	RKT	ROSA	RPW	RSW	RUWJ	RVC	RVW	SALC	SAW
SBG	SCI	SCP	SCY	SDG	SEG	SFS	SFTN	SGH	SGS	SHB	SHBJ	SHI	SHMJ	SHW	SILC	SIM	SJAS
SKI	SLP	SLTN	SLW	SMMH	SNB	SNH	SOA	SOG2	SOH	SONG	SOSW	SPJ	SPT	SRAT	SRE	SSS	STD
STH	STR	STU	STW	SWH	SXM	TAS	TAVF	TBH	TBM	TBT	TCO	TDD	TDH	TDL	TER	THI	TIK
TLC	TLG	TME	TMW	TPP	TPR	TREF	TRH	TSI	TTH	TUNG	TWG	TWL	TWM1	TWW	UDU	UKR	UME
UNM	USI	UTMA	UTU	UWE	UZH	VBEM	VDB	VFP	VGB	VGZ	VILF	VIPM	VLL	VLMM	VSM	VSS	VTG
VTM	VWV	WAH2	WASM	WAX	WDIN	WG3	WGAR	WHA	WHH	WIH	WKH	WLA	WLF	WMTN	WMV	WOB	WOH
WPB	WPW	WRD	WRG	WTV	YAH	YEL	YKU	YMT3	YPE	YRH	YSA	YSS	YUP	ZAK			