

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

EARTHQUAKE DATA REPORT
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by

U.S. Geological Survey
NATIONAL EARTHQUAKE INFORMATION CENTER¹

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1990

¹USGS, Denver, Colorado

EARTHQUAKE DATA REPORT

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

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

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

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

Two types of magnitude are computed: body-wave magnitude (m_b) and surface-wave magnitude (M_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.

% OCT 01, 1990 00h 44m 38.52±0.82s
42.636 N ± 4.7km 12.538 E ±11.2km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

MNS 0.27 157 P 44 44.10 -0.2
eSg 44 48.70
ASS 0.44 12 P 44 47.30 -0.3
eSg 44 54.50
AQU 0.70 113 P 44 51.30 -1.1
eSg 45 03.40
RMP 0.03 172 P 44 54.20 -0.4
eSg 45 08.60
RDP 0.09 171 P 44 55.50 -0.1
eSg 45 10.00
ARV 0.91 19 P 44 56.20 0.2
eSg 45 10.00
AZI 0.93 134 P 44 58.00 1.8
eSg 45 12.50
SDI 1.33 134 P 45 02.90 -0.2
eSg 45 19.50
SFI 1.38 339 P 45 03.90 0.2
eSg 45 23.20
S.D. = 0.9 on 9 of 9 obs.

* OCT 01, 1990 01h 04m 02.66±1.91s
32.527 S ± 0.7km 71.665 W ±15.6km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)

ROCH 0.71 129 IPd 04 17.00 0.2
IS 04 32.00
JACH 0.92 100 IPd 04 19.50 -0.8
IS 04 34.50
LCCM 0.95 175 IPc 04 20.60 -0.1
IS 04 36.90
PEL 1.03 127 IPd 04 22.20 0.1
IS 04 39.50
SAN 1.25 138 eP 04 26.00 0.1
IS 04 47.50
LNV 1.44 172 IPd 04 28.50 -0.3
IS 04 50.00
PCH 1.46 139 IPd 04 29.50 0.4
IS 04 54.00
I 04 57.50
RTBS 2.07 66 e(P) 04 38.00 0.2
MDZ 2.40 99 IP 04 48.50 5.8X
IS 05 20.90
ZON 2.72 70 eP 04 49.00 1.8
RTCV 2.73 77 ePc 04 47.40 0.0
RTLL 2.97 67 ePc 04 49.10 -1.6
eS 05 33.50
S.D. = 0.9 on 11 of 12 obs.

% OCT 01, 1990 01h 51m 47.90±1.77s
36.708 N ±16.7km 3.037 W ± 8.0km
DEPTH = 10.0km (geophysicist)
STRAIT OF GIBRALTAR (385)
mbLg 3.0 (MDD).

AFC 0.68 323 IP 52 00.90 -0.6
eS 52 08.00
ECOG 0.71 323 ePg 52 01.00 -0.9
eSg 52 08.60
ENIJ 0.71 68 IPgc 52 01.20 -0.7
eSg 52 11.00
MAL 1.10 271 IPnd 52 09.00 0.4
ISg 52 26.50
EBAN 1.57 338 ePn 52 16.30 0.4
eS 52 35.00
EVIA 1.97 12 ePn 52 23.20 1.4
eS 52 44.00
S.D. = 1.2 on 6 of 6 obs.

? OCT 01, 1990 03h 01m 30.59±1.52s
38.711 N ± 9.9km 15.428 E ±31.2km
DEPTH = 100.0km (geophysicist)
SICILY (398)

ATN 0.55 177 P 01 47.10 0.1
eSg 02 04.50
CZI 0.75 47 P 01 49.20 0.6
eS 02 06.20
SOI 0.81 142 Pc 01 48.90 -0.3
eSg 02 06.00
TDS 1.18 36 Pc 01 52.90 -0.4

ROI 1.24 46 P 01 54.00 0.0
eS 02 16.50
MMN 1.26 20 P 01 53.80 -0.4
eS 02 13.50
CSI 1.26 32 P 01 54.60 0.3
eS 02 16.20
S.D. = 0.5 on 7 of 7 obs.

OCT 01, 1990 03h 46m 30.00±0.35s
40.162 N ± 4.0km 19.838 E ± 3.4km
DEPTH = 10.0km (geophysicist)
3.2mb (1 obs.)

ALBANIA (391)
ML 3.3 (THE), 2.9 (TTG), MD 3.4 (ATH).

KEK 0.45 184 ePg 46 38.20 -1.0
IGT 0.73 149 eP 46 42.90 -1.6
eS 46 54.50
OHR 1.20 37 IPn 46 50.40 -2.0
i 47 11.20
Lg 47 14.60
FNA 1.33 62 eP 46 53.60 -1.0
eS 47 15.40
LCI 1.45 277 P 46 55.00 -1.3
eSn 47 18.40
KZN 1.49 84 ePb 46 57.20 0.3
eSb 47 22.30
ULC 1.85 346 ePn 47 02.00 -0.2
eSn 47 30.00
EVR 1.97 129 ePn 47 05.20 1.3
LIT 2.03 91 ePc 47 06.10 1.3
eS 47 33.00
VLS 2.07 163 ePn 47 04.50 -0.8
GRG 2.11 67 IPc 47 06.60 0.7
eS 47 36.20
BRT 2.13 290 P 47 08.70 2.5
eSn 47 40.00
SKO 2.18 33 IPn 47 07.30 0.5
i 47 35.70
ISg 47 37.50
Lg 47 50.00
BDV 2.25 341 ePn 47 07.00 -0.9
eSn 47 40.00
TTG 2.31 349 ePn 47 10.00 1.3
eSn 47 47.00
PVY 2.43 2 ePn 47 11.00 0.4
eSn 47 46.50
THE 2.43 78 IPc 47 10.50 0.0
eS 47 42.50
HCY 2.50 337 ePn 47 10.00 -1.4
eSn 47 47.00

KNT 2.53 66 IPc 47 12.60 0.7
ROI 2.58 258 P 47 20.40 7.7X
ORI 2.60 269 P 47 14.90 2.0
eSn 47 48.50
IVA 2.71 1 ePn 47 15.00 0.5
eSn 47 58.00
TDS 2.74 261 P 47 15.30 0.4
CSI 2.75 263 P 47 21.10 6.0X
SOH 2.76 75 IPc 47 15.50 0.3
eS 47 53.70
PLG 2.77 84 ePn 47 16.30 1.0
MMN 2.97 266 P 47 20.20 10.2X
CZI 3.01 253 P 47 18.20 -0.4
MGR 3.28 271 P 47 23.40 0.8
ITM 3.40 151 ePn 47 24.50 0.3
SOI 3.61 236 P 47 25.80 -1.3
eSn 48 09.00
VLI 4.21 144 ePn 47 36.00 0.3
DUI 4.34 292 P 47 38.00 0.3
SDI 4.82 291 P 47 45.00 0.6
AZI 5.17 293 P 47 50.00 0.7
VOY 7.30 325 ePn 48 17.30 -2.1
e(Sn) 49 37.90
NB2 21.57 349 P 51 19.60 -2.0
0.8s 0.90nm 3.2mb
S.D. = 1.2 on 34 of 37 obs.

? OCT 01, 1990 05h 58m 33.77±3.66s
42.440 N ±45.7km 8.689 E ± 7.1km
DEPTH = 10.0km (geophysicist)
CORSIKA (380)
ML 3.3 (LDG).

PGF 0.25 65 Pn 58 39.20 0.0
Sn 58 48.10
SBF 1.69 328 Pn 59 03.60 0.0
Sn 59 29.60
LMR 1.83 300 Pn 59 05.60 0.0
Sn 59 33.80
FRF 1.87 307 Pn 59 06.00 -0.1
Sn 59 35.40
LRG 1.99 301 Pn 59 07.80 0.0
Sn 59 38.60
S.D. = 0.1 on 5 of 5 obs.

OCT 01, 1990 06h 59m 07.25±0.29s
52.602 N ± 7.7km 160.724 E ± 4.0km
DEPTH = 22.5km (3 depth phases)
4.9mb (42 obs.) 4.5msz (11 obs.)
OFF EAST COAST OF KAMCHATKA (219)

SMY 0.14 84 ePc 01 05.90 -0.9
ASAJ 14.68 242 eP 02 36.70 1.5
MDJ 21.94 261 eP 03 58.50 -2.2
MAT 22.55 234 eP 04 09.00 2.1
0.8s 24.63nm 4.7mb
(S) 08 28.00
TTA 24.79 48 ePd 04 28.60 0.1
0.8s 15.50nm 4.7mb
CN2 24.89 263 eP 04 27.60 -1.9
Z 17s 1.20um 4.5msz
N 15s 0.40um
E 15s 0.40um
pP 04 35.00 26km
SVW 24.98 53 eP 04 30.60 1.1
IMA 26.15 41 ePc 04 41.10 -0.2
1.0s 10.60nm 4.4mb
KDC 26.77 60 eP 04 45.60 -1.2
SNY 27.14 262 eP 04 52.60 2.2
Z 17s 1.20um 4.5msz
N 14s 0.60um
E 14s 0.70um
FBA 28.51 44 ePc 05 02.60 0.1
0.6s 5.10nm 4.4mb
TOA 29.36 50 eP 05 10.70 0.4
BJI 32.70 265 eP 05 43.00 3.2X
Z 20s 0.90um 4.5msz
N 14s 0.43um
INK 34.03 37 eP 05 51.00 0.0
SSE 35.83 249 eP 06 14.50 7.7X
Z 20s 0.50um 4.3msz
N 12s 0.30um
E 12s 0.20um
TIY 36.43 265 eP 06 09.00 -2.2
Z 18s 1.00um 4.6msz
N 15s 0.70um
MBC 37.35 23 eP 06 20.00 0.9
0.9s 14.00nm 4.8mb
LZH 42.72 271 P 07 15.50 11.2X
Z 18s 0.72um 4.6msz
N 16s 0.72um
E 15s 0.51um
GTA 43.05 277 eP 07 06.10 -0.7
1.0s 10.00nm 4.5mb
Z 16s 0.90um 4.8msz
E 14s 0.50um
YKA 43.27 42 eP 07 08.20 0.1
0.9s 4.20nm 4.2mb
CD2 46.30 265 eP 07 34.80 1.9
WMO 47.50 290 P 07 40.60 -1.6
Z 20s 0.90um 4.7msz
eS 14 35.00
eScS 17 33.00
BMW 47.59 65 P 07 43.30 0.3
GYA 47.77 259 P 07 48.00 3.4X
RMW 47.79 63 P 07 44.30 -0.2
PNT 47.87 60 eP 07 45.00 0.0
0.9s 12.00nm 4.9mb
EDM 48.76 53 eP 07 52.00 0.1
NEW 49.82 60 P 07 59.20 -0.9
0.8s 7.29nm 4.8mb
LBFM 51.55 70 P 08 14.10 0.5
WDC 51.68 71 IPd 08 14.50 0.2
ORV 52.95 71 eP 08 23.10 -0.8
FFC 53.09 46 eP 08 24.00 -0.7
1.1s 15.00nm 4.8mb
KEV 53.40 342 IP 08 25.60 -1.1
0.7s 10.70nm 4.9mb
LRM 53.84 60 eP 08 30.50 -0.1
MHC 54.36 73 eP 08 34.10 -0.2

01d 07h

GCC	54.36	74	eP	08	33.70	-0.5
ARN	54.42	73	P	08	34.70	0.0
CMB	54.62	72	ePd	08	36.20	0.0
SOD	55.50	340	iP	08	39.30	-2.8
FRI	55.72	72	eP	08	43.60	-0.5
TNP	56.41	70	P	08	49.30	0.0
	0.8s	9.56nm				4.9mb
BW06	57.42	61	P	08	55.90	-0.6
	0.8s	14.29nm				5.1mb
DUG	57.44	65	P	08	56.60	0.1
ABL	57.49	74	P	08	56.80	-0.3
DAU	58.14	64	P	09	01.80	0.1
CHG	58.18	259	eP	09	03.00	1.2
CHTO	58.18	259	eP	09	02.10	0.3
	0.9s	4.90nm				4.6mb
SUF	59.60	338	iP	09	09.90	-1.2
	0.8s	69.20nm				5.8mb
KKN	59.78	277	P	09	11.80	-1.3
	0.6s	23.00nm				5.5mb
PKI	59.86	277	P	09	12.40	-1.4
	0.8s	25.00nm				5.4mb
GKN	60.01	278	P	09	13.20	-1.4
DMN	60.02	277	P	09	13.60	-1.1
	0.6s	20.00nm				5.4mb
GOL	61.83	61	P	09	27.30	0.4
	0.7s	2.43nm				4.4mb
GLD	61.87	61	P	09	27.80	0.7
	0.9s	21.05nm				5.3mb
NUR	61.88	337	iP	09	25.20	-1.4
	0.8s	20.50nm				5.3mb
NB2	64.12	344	P	09	39.60	-1.9
	1.1s	18.20nm				5.1mb
HFS	64.54	342	eP	09	41.20	-2.9X
	0.4s	4.00nm				4.9mb
Z	18s	0.26um				4.5MsZ
		LR		35	16.00	
ANMO	64.71	65	P	09	46.00	0.2
	0.8s	3.73nm				4.6mb
ALO	64.71	65	eP	09	45.50	-0.4
	1.0s	5.25nm				4.6mb
QUE	68.79	292	eP	10	12.00	0.2
MEQ	69.09	60	iPc	10	13.10	-0.2
SIO	69.54	58	eP	10	15.70	-0.3
TUL	69.68	57	eP	10	16.30	-0.5
	1.4s	20.40nm				5.1mb
Z	19s	0.35um				4.6MsZ
		LR		38	52.00	
EKA	71.61	350	P	10	29.00	0.8
	1.2s	12.60nm				4.9mb
HYB	71.64	275	eP	10	27.00	-2.0
KRA	72.47	335	eP	10	32.60	-0.8
	0.8s	19.00nm				5.2mb
Z	20s	0.80um				5.0MsZ
		e		10	39.60	22km
KSP	72.65	337	ePd	10	34.20	-0.3
CLL	72.95	339	eP	10	35.00	-1.2
BRG	73.15	339	iP	10	37.80	0.4
	1.0s	12.00nm				4.9mb
SPC	73.18	334	e(P)	10	36.90	-0.9
	e			10	42.80	19km
POO	73.63	279	eP	10	38.50	-2.2
PRU	73.85	338	P	10	41.70	0.2
MOX	73.87	340	iP	10	43.00	1.4
ENN	74.83	344	e(P)	10	47.00	-0.1
	1.0s	29.00nm				5.3mb
GRF	74.85	340	ePc	10	49.30	2.0
	1.0s	20.00nm				5.1mb
Z	21s	0.10um				4.1MsZ
KHC	74.87	338	P	10	48.50	1.0
	1.0s	7.00nm				4.6mb
ZST	74.91	336	iP	10	48.70	1.1
SRO	74.95	335	iP	10	48.50	0.6
MEM	74.97	344	P	10	48.10	0.2
GBA	75.25	273	P	10	49.00	-1.1
DOU	75.70	343	P	10	53.70	1.6</

AVF	79.11	344 eP	11	10.90	-0.1
	1.1s	13.45nm			4.9mb
SMF	79.17	344 eP	11	11.10	-0.3
SKO	79.44	330 eP	11	04.00	-8.9X
ASPA	79.47	205 iPd	11	14.50	1.3
	0.8s	18.30nm			5.2mb
LPL	79.74	342 eP	11	15.60	0.8
	0.9s	21.30nm			5.2mb
LPG	79.76	342 eP	11	15.60	0.9
	1.0s	34.00nm			5.3mb
TCF	79.78	345 eP	11	12.48	-2.3
	1.1s	9.75nm			4.7mb
MAF	79.79	345 eP	11	14.20	-0.6
	1.3s	18.05nm			4.9mb
SFI	80.18	338 P	11	19.50	2.7
BN1	80.20	342 P	11	19.50	2.4
PGD	80.26	338 P	11	20.50	3.0X
ARV	80.33	337 P	11	19.50	1.8
BDI	80.34	339 P	11	19.50	1.7
OHR	80.42	330 eP	11	19.20	1.0
ASS	80.80	337 P	11	22.00	1.8
CAF	81.13	345 eP	11	21.90	0.0
	1.1s	14.65nm			4.9mb
AZI	81.63	336 P	11	25.50	1.1
SDI	81.80	336 P	11	26.00	0.5
LMR	81.89	341 eP	11	26.00	0.2
	1.1s	24.40nm			5.2mb
MGR	82.82	334 P	11	32.00	1.3
ZOBO	127.31	65 PKP	18	12.00	-0.3
LPB	127.54	66 ePKP	18	12.00	-0.6
CNCB	127.83	66 PKP	18	13.00	-0.3
SIV	130.87	58 PKP	18	18.60	0.2

S.D. = 1.1 on 106 of 113 obs.

% OCT 01, 1990 08h 11m 59.36 ± 0.89s
39.291 N ± 7.2km 27.852 E ± 8.1km
DEPTH = 10.0km (geophysicist)

DST	0.68	62	iPg	12	12.80	-0.1
			eSg	12	23.00	
I ZM	1.00	208	ePg	12	18.40	0.0
			eSg	12	31.40	
EDC	1.06	0	ePn	12	19.50	0.3
KGT	1.23	340	iPn	12	22.00	-0.3
EZN	1.30	295	ePn	12	23.40	0.1

& OCT 01, 1990 09h 02m 34.40s
63.475 N 151.185 W
DEPTH = 11.0km
4.1mb (11 obs.)
CENTRAL ALASKA (1)
<AGS-P>. ML 4.4 (PMR).

HUR	0.86	125	IP	02	50.45	-0.4
MCK	1.04	75	eP	02	53.93	0.0
			eS	03	09.04	
RND	1.05	93	iP	02	53.77	-0.4
CUT	1.15	158	iP	02	55.83	0.0
NEA	1.44	39	iP	02	59.48	-1.0
			eS	03	18.46	
SKT	1.51	186	iP	03	01.37	0.0
WRH	1.69	52	eP	03	02.79	-1.2
CCB	1.90	50	iP	03	05.64	-1.3
PWA	1.93	161	eP	03	07.22	-0.2
GHO	2.00	148	eP	03	08.20	-0.4
			eS	03	32.22	
SUA	2.03	174	eP	03	08.87	-0.1
			eS	03	36.21	
FBA	2.06	45	ePc	03	08.20	-1.2
HDA	2.09	62	eP	03	08.44	-1.3
PLRM	2.12	152	eP	03	09.88	-0.2
PMR	2.12	152	eP	03	10.30	0.2
NCG	2.13	193	iP	03	09.88	-0.6
			eS	03	37.54	
SML	2.13	141	eP	03	09.84	-0.6
COLM	2.21	190	eP	03	10.96	-0.6
GLM	2.25	46	eP	03	10.84	-1.3
TTA	2.25	258	eP	03	10.40	-1.8
CRP	2.26	192	eP	03	12.03	-0.4
BGL	2.29	195	eP	03	12.71	-0.1
SFU	2.34	190	eP	03	13.22	-0.2
CKL	2.35	194	eP	03	13.51	-0.1
PMS	2.36	161	eP	03	13.93	0.2
DDM	2.40	80	eP	03	13.88	-0.3

[illegible]

• OCT 01, 1990 09h 12m 16.42± 0.59s
52.876 N ±11.1km 160.413 E ±14.0km
DEPTH = 33.0km (normal)
4.6mb (5 obs.)

OFF EAST COAST OF KAMCHATKA (219)				
FBA	28.44	45 eP	18 09.10	-0.7
	0.6s	1.10nm		3.7mb
INK	33.93	38 eP	18 58.00	0.1
M8C	37.17	23 ePc	19 26.10	0.7
	0.5s	6.00nm		4.7mb
KEV	53.08	342 eP	21 32.00	-0.1
SOD	55.17	340 iP	21 47.00	0.3
CHTO	58.05	259 eP	22 09.00	0.5
	1.0s	5.25nm		4.6mb
SUF	59.27	337 iP	22 17.20	0.7
	0.9s	72.00nm		5.8mb

NUR 61.56 337 iP 22 32.10 0.0
 NB2 63.81 344 P 22 46.80 -0.3
 0.4s 1.90nm 4.6mb
 HFS 64.22 342 eP 22 48.20 -1.5
 0.4s 4.00nm 4.9mb
 WB5 75.90 205 eP 24 00.60 -0.6
 ASPA 79.64 205 eP 24 21.60 -0.2
 ZOBO 127.37 65 (PKP) 30 57.00 -23.0X
 e 33 02.00
 LPB 127.60 65 ePKP 31 18.00 -2.2X
 CNCB 127.89 65 PKP 31 22.00 1.0
 e 32 56.00

S.D. = 0.7 on 13 of 15 obs.

% OCT 01, 1990 09h 22m 21.08 ± 0.65s
 40.354 N ± 4.8km 29.458 E ± 6.9km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.5 (ISK).

IZI 0.02 145 iPg 22 21.40 -1.7
 YLV 0.22 343 iPg 22 26.00 0.1
 GBZT 0.43 359 ePg 22 29.50 -0.4
 iSg 22 37.50
 HRT 0.49 19 iPg 22 31.30 0.2
 DST 0.98 221 iPn 22 39.80 0.0
 CTI 1.11 316 iPn 22 42.50 0.5
 EDC 1.22 270 iPn 22 43.50 -0.3
 ALT 1.39 159 ePn 22 47.90 1.3
 KGT 1.65 274 iPn 22 50.00 -0.2

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

% OCT 01, 1990 09h 34m 50.90 ± 1.04s
 39.703 N ± 8.4km 29.450 E ± 12.3km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.3 (ISK).

IZI 0.63 2 ePg 35 02.90 -0.8
 eSg 35 13.40
 ALT 0.82 141 ePn 35 06.90 0.0
 YLV 0.86 356 iPn 35 07.50 -0.1
 KCT 1.00 303 iPn 35 10.00 0.1
 HRT 1.13 8 ePn 35 12.90 0.8

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

% OCT 01, 1990 10h 10m 54.27s
 63.464 N 151.059 W
 DEPTH = 13.5km
 CENTRAL ALASKA (1)
 <AGS-P>. ML 3.5 (PMR).

HUR 0.81 127 iP 11 09.46 -0.2
 eS 11 21.50
 MCK 0.99 73 eP 11 12.94 0.2
 eS 11 28.01
 RND 0.99 92 eP 11 12.83 0.0
 iS 11 27.42
 CUT 1.12 161 iP 11 14.85 -0.1
 NEA 1.42 37 eP 11 18.31 -1.3
 eS 11 38.01
 SKT 1.51 188 iP 11 20.75 -0.1
 iS 11 39.86
 WRH 1.65 51 eP 11 21.83 -1.2
 eS 11 46.40
 CCB 1.86 49 iP 11 24.59 -1.4
 PWA 1.90 163 eP 11 26.27 -0.3
 GHO 1.96 149 eP 11 27.21 -0.4
 iS 11 53.57
 SUA 2.01 176 iP 11 28.09 -0.2
 FBA 2.03 43 ePc 11 27.10 -1.4
 HDA 2.04 61 eP 11 27.38 -1.3
 PLRM 2.08 154 eP 11 28.90 -0.3
 PMR 2.08 154 eP 11 29.00 -0.2
 SML 2.09 142 eP 11 28.89 -0.4
 NCG 2.13 194 eP 11 29.09 -0.9
 eS 11 58.76
 CGLM 2.21 192 eP 11 30.89 -0.3
 GLM 2.22 45 eP 11 29.67 -1.6
 CRP 2.26 194 eP 11 31.96 -0.1
 eS 12 01.81
 BGL 2.29 196 eP 11 32.21 -0.2
 eS 12 03.14
 TTA 2.31 259 eP 11 29.90 -2.7
 PMS 2.33 162 eP 11 33.34 0.4
 eS 12 02.86
 SPU 2.34 192 eP 11 32.59 -0.4

DDM 2.34 80 eP 11 32.83 -0.2
 CKL 2.35 195 eP 11 33.38 0.2
 SCM 2.38 132 eP 11 33.38 -0.1
 TOA 2.63 119 eP 11 37.70 0.6
 NKA 2.73 182 eP 11 41.36 2.9
 IMA 2.85 338 eP 11 38.40 -1.8
 RDT 2.97 193 eP 11 42.40 0.5
 SLKM 2.99 172 eP 11 42.16 0.0
 KLU 3.10 127 eP 11 44.32 0.6
 eS 12 22.65
 RSO 3.12 196 eP 11 44.91 0.8
 DOT 3.14 83 eP 11 46.61 2.4
 SVW 3.18 124 eP 11 45.50 0.6
 GLI 3.19 143 eP 11 45.42 0.4
 VZW 3.20 137 eP 11 45.54 0.3
 VLZ 3.22 135 eP 11 45.66 0.3
 >NNL 3.44 182 eP 11 49.61 1.1
 SEW 3.46 167 eP 11 50.25 1.5
 BRK 3.71 179 eP 11 53.49 1.0
 MTU 3.85 154 eP 11 51.55 -2.8
 GLB 3.93 118 eP 11 56.58 1.0
 CNPM 3.95 181 eP 11 56.16 0.3
 PDB 3.98 203 eP 11 55.40 -0.8
 TGL 4.72 121 eP 12 07.01 0.1
 BALM 4.75 117 eP 12 07.47 0.3
 ANM 6.39 286 eP 12 26.80 -3.4
 INK 8.65 48 P 12 58.00 -3.8

50 obs. associated

% OCT 01, 1990 10h 18m 17.56 ± 0.86s
 39.123 N ± 6.8km 27.559 E ± 8.7km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.7 (ISK).

IZM 0.76 198 ePg 18 32.50 0.0
 eSg 18 43.00
 DST 0.96 60 iPn 18 35.80 0.0
 EZN 1.18 307 ePn 18 39.50 -0.1
 BNT 1.26 13 ePn 18 40.90 -0.1
 KGT 1.34 352 iPn 18 42.50 0.3

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

% OCT 01, 1990 10h 31m 17.79s
 63.444 N 150.906 W
 DEPTH = 19.2km
 CENTRAL ALASKA (1)
 <AGS-P>. ML 3.7 (PMR).

HUR 0.74 129 iP 31 31.91 0.0
 iS 31 42.92
 RND 0.92 91 eP 31 35.03 0.0
 MCK 0.93 71 eP 31 35.34 0.3
 eS 31 48.24
 CUT 1.08 164 iP 31 37.34 -0.4
 NEA 1.39 34 eP 31 40.75 -1.5
 eS 31 59.74
 SKT 1.50 191 iP 31 43.17 -0.6
 WRH 1.62 49 eP 31 44.31 -1.1
 eS 32 06.34
 CCB 1.82 47 iP 31 47.08 -1.3
 iS 32 10.96
 PWA 1.86 165 eP 31 48.75 -0.2
 GHO 1.91 150 eP 31 49.66 -0.2
 SUA 1.99 178 iP 31 50.59 -0.4
 HDA 2.00 59 eP 31 49.83 -1.1
 eS 32 17.53
 FBA 2.00 42 ePc 31 49.50 -1.5
 SML 2.03 143 eP 31 51.27 -0.2
 PLRM 2.03 155 eP 31 51.37 -0.1
 eS 32 19.97
 PMR 2.03 155 ePd 31 51.40 -0.1
 NCG 2.13 196 eP 31 51.44 -1.6
 eS 32 21.65
 GLM 2.18 43 eP 31 52.19 -1.5
 CGLM 2.20 194 eP 31 53.02 -1.1
 CRP 2.26 195 eP 31 54.29 -0.7
 DDM 2.28 79 eP 31 55.43 0.3
 PMS 2.30 164 eP 31 55.87 0.6
 BGL 2.30 198 eP 31 54.92 -0.4
 SCM 2.31 133 eP 31 55.62 0.0
 SPU 2.33 194 eP 31 55.30 -0.5
 CKL 2.35 197 iP 31 55.89 -0.3
 TTA 2.37 260 eP 31 52.30 -4.1
 TOA 2.56 120 ePc 32 00.20 1.1
 IMA 2.89 337 ePd 32 01.10 -2.7
 SLKM 2.96 173 eP 32 04.93 0.2

RDT 2.97 194 eP 32 03.91 -0.9
 KLU 3.03 128 eP 32 06.74 1.0
 DOT 3.07 83 eP 32 08.58 2.3
 RSO 3.12 197 eP 32 06.87 -0.2
 GLI 3.13 143 iP 32 08.33 1.2
 VZW 3.14 138 eP 32 08.19 0.9
 VLZ 3.15 135 eP 32 08.09 0.7
 SVW 3.22 225 eP 32 07.80 -0.6
 >NNL 3.42 183 eP 32 13.28 2.1
 SEW 3.42 168 eP 32 12.66 1.5
 GLB 3.86 118 eP 32 18.62 1.1
 CNPM 3.94 182 eP 32 18.10 -0.4
 PDB 3.99 205 eP 32 17.39 -1.9
 TGL 4.65 122 eP 32 29.30 0.4
 BALM 4.68 117 eP 32 29.74 0.6
 ANM 6.46 286 eP 32 49.80 -4.4
 INK 8.61 48 P 33 21.00 -3.2

47 obs. associated

% OCT 01, 1990 11h 26m 58.14s
 63.461 N 151.035 W
 DEPTH = 14.1km
 CENTRAL ALASKA (1)
 <AGS-P>. ML 3.5 (PMR).

HUR 0.80 127 iP 27 13.18 -0.1
 eS 27 24.55
 MCK 0.98 73 eP 27 16.58 0.2
 eS 27 31.33
 RND 0.98 92 eP 27 16.50 0.0
 eS 27 30.22
 CUT 1.12 161 iP 27 18.60 -0.1
 NEA 1.41 37 iP 27 22.00 -1.4
 eS 27 42.22
 SKT 1.50 189 iP 27 24.44 -0.2
 eS 27 43.70
 WRH 1.65 51 eP 27 25.54 -1.2
 CCB 1.85 49 iP 27 28.31 -1.4
 PWA 1.89 163 eP 27 29.96 -0.3
 GHO 1.96 149 eP 27 30.95 -0.3
 eS 27 55.54
 SUA 2.01 176 eP 27 31.84 -0.2
 FBA 2.03 43 ePc 27 30.80 -1.4
 HDA 2.04 60 eP 27 31.06 -1.3
 PLRM 2.07 154 eP 27 32.59 -0.3
 PMR 2.07 154 eP 27 32.70 -0.2
 SML 2.08 142 eP 27 32.63 -0.3
 NCG 2.13 195 eP 27 32.94 -0.9
 CGLM 2.21 192 eP 27 34.66 -0.3
 GLM 2.21 44 eP 27 33.45 -1.5
 CRP 2.26 194 eP 27 35.60 -0.2
 eS 28 03.57
 BGL 2.29 197 eP 27 36.17 0.0
 TTA 2.32 259 eP 27 36.20 -0.3
 PMS 2.33 162 eP 27 37.15 0.5
 DDM 2.33 80 eP 27 37.31 0.6
 SPU 2.34 192 eP 27 36.98 0.2
 CKL 2.35 196 eP 27 37.16 0.1
 SCM 2.37 132 eP 27 36.90 -0.3
 TOA 2.62 119 eP 27 41.30 0.6
 IMA 2.85 338 ePc 27 42.00 -2.1
 RDT 2.97 193 eP 27 46.06 0.4
 SLKM 2.99 172 eP 27 45.87 -0.1
 KLU 3.09 127 eP 27 48.31 0.9
 RSO 3.12 196 eP 27 48.20 0.3
 DOT 3.13 83 eP 27 49.21 1.3
 GLI 3.18 143 eP 27 49.28 0.6
 SVW 3.19 224 eP 27 49.00 0.2
 VLZ 3.21 135 eP 27 49.35 0.4
 SEW 3.45 167 eP 27 54.65 2.2
 MTU 3.84 154 eP 27 58.03 0.0
 GLB 3.92 118 eP 28 00.19 1.0
 CNPM 3.95 181 eP 28 00.98 1.4
 FYU 3.97 36 eP 27 58.37 -1.4
 PDB 3.98 204 eP 28 01.71 1.7
 TGL 4.71 121 eP 28 10.71 0.2
 BALM 4.73 117 eP 28 10.86 0.0
 ANM 6.40 286 eP 28 30.90 -3.3
 INK 8.64 48 P 29 02.00 -3.5

47 obs. associated

? OCT 01, 1990 11h 45m 29.17 ± 1.28s
 15.104 N ± 20.0km 145.604 E ± 24.7km
 DEPTH = 181.4 ± 13.4 km
 4.4mb (7 obs.)

MARIANA ISLANDS (216)

01d 11h

PJC	1.67	205	eP	46	03.00	-0.2
GUMO	1.67	205	eP	46	03.00	-0.2
GUA	1.70	203	eP	46	03.30	-0.2
			eS	46	26.30	
WB5	36.48	198	eP	52	20.50	1.9
LZH	42.65	307	Pd	53	11.50	1.9
	1.5s	25.00nm			4.6mb	
CHTO	44.69	282	eP	53	26.00	0.9
	0.9s	3.41nm			3.9mb	
GBA	65.81	278	Pc	55	56.00	-0.6
	0.3s	1.40nm			4.3mb	
INK	72.70	23	eP	56	40.00	1.5
MBC	76.64	14	eP	57	03.00	2.1
	0.6s	4.00nm			4.3mb	
KEV	85.31	342	eP	57	47.00	0.6
SOD	86.69	340	eP	57	51.00	-2.2
SUF	89.37	336	iP	58	06.30	0.3
	0.4s	3.10nm			4.6mb	
NUR	91.19	335	eP	58	13.00	-1.4
HFS	95.67	338	eP	58	34.10	-1.0
	0.4s	1.30nm			4.6mb	
NB2	95.89	340	P	58	36.20	0.0
	0.7s	0.90nm			4.2mb	
KIC	143.69	304	PKP	04	43.70	-1.3
TIC	143.74	305	PKP	04	44.00	-1.1
LIC	144.00	304	PKP	04	44.60	-0.9
ZOBO	147.53	97	PKP	04	58.90	6.9X
CNCB	147.69	98	PKP	05	00.00	7.8X

S.D. = 1.4 on 18 of 20 obs.

OCT 01, 1990 11h 50m 56.05 ± 0.37s
 7.072 S ± 0.5km 106.494 E ± 0.1km
 DEPTH = 53.5km (2 depth phases)
 4.7mb (7 obs.)

JAVA (277)

TRT	6.12	96	ePc	52	28.90	2.7
			iS	53	32.40	
NANU	17.69	151	eP	54	56.00	-3.7X
			eS	57	58.00	
MBL	19.04	139	iPd	55	15.20	-1.6
			eS	58	30.00	
MEKA	22.56	151	eP	55	43.40	-9.5X
			e	56	02.00	85kmX
			eS	59	57.00	
KNA	23.45	114	iPd	56	01.00	0.2
MRWA	23.78	159	eP	56	06.00	1.3
			eS	00	25.00	
MTN	24.92	105	eP	56	15.30	-0.5
MUN	26.38	161	eP	56	31.00	1.7
			e	56	55.00	111kmX
			eS	01	27.00	
KLB	26.57	158	eP	56	29.50	-1.5
			eS	01	27.00	
CHG	26.78	344	eP	56	32.60	-0.4
CHTO	26.78	344	eP	56	32.20	-0.8
	0.8s	2.93nm			3.9mb	
			pP	56	47.00	61km
			sP	56	53.50	
COOL	27.38	152	eP	56	37.00	-1.4
			i	57	04.70	130kmX
WB5	29.88	118	eP	56	59.90	-1.2
			eS	01	52.00	
ASPA	31.05	125	iPc	57	10.40	-1.0
	0.5s	6.60nm			4.6mb	
FORR	31.13	142	eP	57	10.00	-1.9
	0.4s	6.00nm			4.7mb	
			e	57	55.50	224kmX
			e	03	16.00	
GYA	33.33	0	P	57	32.00	0.8
QIS	34.74	116	iP	57	43.00	-0.4
GBA	35.42	305	Pd	57	50.40	1.2
	0.7s	19.00nm			5.1mb	
HYB	36.80	312	eP	58	03.00	2.1
GUN	40.08	331	P	58	27.00	-0.9
DMN	40.21	330	P	58	29.00	-0.4
KKN	40.27	330	P	58	29.20	-0.7
ADE	40.59	138	eP	58	31.50	-0.8
GKN	40.77	330	P	58	33.00	-0.9
XAN	40.95	3	P	58	35.00	-0.2
STK	40.97	132	iPc	58	35.70	0.4
	0.4s	52.00nm			5.6mb	
			iPP	58	49.50	
POO	41.04	309	eP	58	36.00	0.7
LZH	43.00	357	P	59	01.50	9.4X
NDI	45.39	323	eP	59	10.00	-1.2
GTA	46.66	353	eP	59	21.50	0.2

CAN	48.03	132	eP	59	34.30	2.2
BRS	48.25	121	iPc	59	36.50	2.6
			i	59	49.00	46km
CN2	53.46	17	eP	00	12.00	-1.0
MAIO	61.66	318	eP	01	11.00	0.0
MAW	67.15	197	iP	01	46.70	0.6
SPA	82.98	180	iPd	03	17.10	0.4
	0.9s	8.64nm			4.0mb	
VR1	87.96	317	ePd	03	43.00	1.5
MLR	88.41	316	eP	03	45.50	1.6
SOB1	143.70	244	ePKP	10	26.30	-1.6
SIO	144.63	33	ePKP	10	27.90	-0.9
TUL	144.78	32	ePKP	10	28.20	-0.9
	0.8s	7.10nm				
BAO	146.12	228	ePKP	10	35.50	3.5X
SIV	153.99	208	PKP	10	52.00	9.0X
			i	11	06.60	
CNCB	155.65	193	ePKP	10	51.00	4.3X
ZOBO	156.21	193	PKP	11	05.00	17.5X

S.D. = 1.3 on 38 of 45 obs.

* OCT 01, 1990 12h 49m 58.72 ± 0.78s
 14.543 N ± 0.8km 124.232 E ± 0.7km
 DEPTH = 33.0km (normal)
 4.6mb (4 obs.)

LUZON, PHILIPPINE ISLANDS (249)

CHG	24.58	283	eP	55	18.50	1.3
CHTO	24.58	283	eP	55	16.90	-0.3
	0.8s	4.21nm			4.1mb	
LZH	28.17	323	eP	55	50.50	0.1
	1.5s	17.00nm			4.5mb	
WB5	35.63	163	eP	56	56.00	0.3
GUN	37.98	297	P	57	16.20	0.3
PKI	38.32	296	P	57	18.40	-0.3
KKN	38.47	296	P	57	19.60	-0.3
DMN	38.59	296	P	57	20.40	-0.5
GKN	39.07	297	P	57	24.20	-0.6
ASPA	39.13	166	eP	57	24.80	-0.3
	0.6s	7.30nm			4.6mb	
KEV	78.96	339	eP	02	14.00	13.7X
SOD	79.60	337	eP	02	05.00	1.2
HFS	87.36	332	eP	02	42.60	-0.9
	0.6s	2.70nm			4.7mb	

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

OCT 01, 1990 13h 44m 54.60 ± 0.38s
 14.561 N ± 0.8km 124.062 E ± 0.4km
 DEPTH = 33.0km (normal)
 4.9mb (14 obs.) 4.0Msz (3 obs.)

LUZON, PHILIPPINE ISLANDS (249)

QIZ	14.32	290	eP	48	15.00	-2.1
	N 13s	0.40um				
	E 17s	1.90um				
		pP	48	25.70		
SSE	16.67	351	Pd	48	55.00	7.7X
	1.2s	19.00nm			4.1mb	
WHN	18.24	332	eP	49	08.00	1.1
	E 11s	0.30um				
GYA	20.11	309	P	49	28.80	0.1
	Z 16s	0.90um			4.2MszX	
	N 13s	0.40um				
	E 13s	1.00um				
GUMO	20.20	90	eP	49	48.40	18.8X
PJC	20.20	90	eP	49	48.20	18.6X
LOE	21.65	281	eP	49	44.00	-0.4
KMI	22.61	301	Pd	49	57.00	2.9X
	2.0s	120.00nm			5.0mb	
	Z 16s	1.10um			4.4MszX	
		pP	50	07.50	40kmX	
NNT	23.73	268	eP	50	01.00	-3.8X
XAN	23.74	327	iPc	50	05.20	0.4
		S	54	18.00		
BDT	24.24	280	eP	50	06.00	-3.7X
CHG	24.42	283	iPc	50	12.00	0.5
	1.0s	24.75nm			4.7mb	
CHTO	24.42	283	iP	50	11.90	0.4
	1.2s	31.94nm			4.0mb	
CD2	24.74	315	eP	50	15.20	0.7
	Z 16s	0.80um			4.3MszX	
	E 12s	0.44um				
TRT	24.86	208	iPd	50	17.50	1.8
TIY	25.26	338	eP	50	19.40	-0.1
	Z 20s	0.60um			4.1Msz	
	N 15s	0.40um				

BJI	26.31	346	eP	50	28.00	-1.0
SNY	27.17	359	eP	50	41.20	4.3X
	Z 16s	0.60um			4.3MszX	
	E 15s	0.70um				
LZH	28.05	323	Pc	50	45.50	0.3
	1.5s	68.00nm			5.1mb	
	Z 15s	0.48um			4.2MszX	
	N 12s	0.39um				
		eS	55	28.00		
HHC	28.37	340	eP	50	48.00	0.1
	Z 15s	0.60um			4.3MszX	
BTO	28.69	337	eP	50	50.00	-0.9
	N 12s	0.30um				
	E 12s	0.30um				
GTA	32.65	324	Pc	51	26.00	0.1
	1.2s	20.00nm			4.9mb	
	Z 16s	0.30um			4.1MszX	
	E 13s	0.30um				
LSA	33.86	302	eP	51	37.30	0.4
WB5	35.69	163	eP	51	51.00	-1.1
GUN	37.82	297	P	52	10.60	0.2
	1.0s	114.00nm			5.7mb	
QIS	38.10	156	iP	52	11.80	-0.5
PKI	38.16	296	P	52	13.20	0.0
	0.8s	38.00nm			5.3mb	
KKN	38.32	296	P	52	13.20	-1.2
DMN	38.43	296	P	52	15.40	0.0
	0.9s	53.00nm			5.4mb	
GKN	38.92	297	P	52	18.40	-1.0
ASPA	39.19	166	iPc	52	20.90	-0.6
	0.8s	23.20nm			5.0mb	
	Z 22s	0.13um			3.7Msz	
		iS	58	15.00		
		LR	08	08.00		
MEKA	41.28	188	eP	52	38.30	-0.3
WMO	42.54	321	P	52	49.50	0.6
	Z 16s	0.50um			4.5MszX	
GBA	45.17	275	P	53	11.00	0.5
KOD	45.65	270	eP	53	16.20	1.5
KSH	48.78	310	P	53	41.50	2.8X
STK	49.14	160	iPd	53	41.50	0.2
	0.9s	5.00nm			4.5mb	
ADE	51.18	165	eP	53	57.00	0.1
QUE	54.53	297	eP	54	22.10	-0.1
MAIO	61.11	304	iPc	55	08.50	0.3
KEV	78.88	339	eP	56	55.00	-0.8
SOD	79.52	337	iP	56	59.70	0.4
		i	57	06.00		
SUF	80.77	332	eP	57	07.00	1.0
INK	81.11	22	eP	57	16.00	8.3X
MBC	82.02	12	eP	57	14.50	2.2
	1.0s	6.00nm			4.6mb	
VR1	84.70	316	ePd	57	27.50	0.9
MLR	85.33	316	eP	57	30.00	0.1
HFS	87.27	332	eP	57	38.40	-0.6
	1.0s	7.50nm			4.9mb	
	Z 18s	0.07um			4.1Msz	
		LR	32	36.00		
NB2						

ASPA	38.20 197 eP	24 04.00 -0.6	COO	26.20 263 iPc	49 50.90 3.8X	KHL	1.23 163 ePn	44 39.20 -0.1	
	0.8s 6.00nm	4.6mb		0.8s 32.00nm	5.0mb	BNT	1.23 315 ePn	44 38.00 -1.4	
Z	24s 0.29um	4.0MszX	CNB	27.97 252 eP	50 05.00 1.8	KGT	1.66 306 iPn	44 46.80 1.1	
	LR	38 44.00	CAN	28.26 252 eP	50 09.40 3.6X		S.D. = 1.3 on 5 of 5 obs.		
GYA	38.55 296 P	24 10.80 3.1X		e	53 19.80				
Z	20s 0.90um	4.6Msz	BWA	28.76 254 eP	50 11.20 0.9	% OCT 01, 1990 15h 46m 45.07±1.02s			
N	20s 1.00um		RMQ	29.77 270 eP	50 19.00 -0.4	38.935 N ±10.4km 29.188 E ±11.6km			
XAN	39.03 309 eP	24 12.00 0.5	TOO	31.11 247 eP	50 33.00 1.8	DEPTH = 10.0km (geophysicist)			
MHC	40.42 319 eP	24 20.00 -2.9	CMS	31.21 259 eP	50 33.00 0.9	TURKEY		(366)	
Z	22s 1.00um	4.6Msz	CTA	34.21 280 iPd	50 59.20 0.9	MD 2.5 (ISK).			
E	20s 0.78um			0.8s 44.78nm	5.4mb				
BTO	41.27 318 eP	24 31.50 1.6	STK	34.72 257 iPd	51 03.00 0.4	KHL	0.66 157 iPg	46 58.20 -0.2	
N	17s 0.80um			0.9s 34.00nm	5.3mb	ALT	0.73 80 ePg	46 59.40 -0.1	
E	17s 0.80um			iPP	51 13.40	DST	0.80 327 iPg	46 58.70 -1.9	
LZH	43.65 309 P	24 53.00 3.5X	ADE	36.70 252 eP	51 21.00 1.6	eSg	47 11.00		
Z	18s 0.48um	4.4Msz	QIS	39.69 275 eP	51 44.60 0.1	KCT	1.46 334 ePn	47 12.30 0.8	
CHTO	44.83 284 eP	25 00.20 1.1	ASPA	43.43 267 eP	52 12.90 -2.3	YLV	1.64 5 iPn	47 14.30 0.2	
	0.8s 1.10nm	3.7mb		0.6s 20.10nm	5.1mb	KGT	2.10 317 ePn	47 21.80 1.1	
GTA	47.81 312 eP	25 24.00 1.5	Z	16s 1.96um	5.1MszX		S.D. = 1.4 on 6 of 6 obs.		
Z	22s 0.60um	4.5Msz		iScP	57 53.80	? OCT 01, 1990 15h 47m 15.15±1.07s			
E	12s 0.20um			eS	58 43.20	42.001 N ± 9.5km 20.173 E ±11.4km			
	PcP	26 52.30	WB5	44.46 272 eP	52 22.00 -1.5	DEPTH = 10.0km (geophysicist)			
	eS	32 21.00		eS	57 58.10	YUGOSLAVIA		(383)	
GUN	57.08 295 P	26 32.40 0.4	FORR	46.22 255 eP	52 37.00 -0.3	ML 2.3 (TTG).			
PKI	57.48 294 P	26 34.80 0.0		0.4s 37.00nm	5.7mb				
KKN	57.60 295 P	26 35.20 -0.3	SBA	47.63 184 e(P)	52 52.60 4.7X	PVY	0.61 346 ePg	47 27.70 0.1	
DMN	57.75 294 P	26 37.00 0.4	COOL	51.97 253 eP	53 20.00 -1.7	ULC	0.69 267 ePg	47 29.00 0.2	
WMQ	57.78 314 P	26 36.70 0.4	KLB	54.53 251 eP	53 36.00 -4.6X	TTG	0.80 303 ePg	47 30.40 -0.3	
Z	30s 0.60um	4.5MszX	MUN	55.68 250 eP	53 48.00 -0.9	eSg	47 39.50		
	eS	34 36.20	MRWA	56.73 253 eP	53 55.00 -1.5	OHK	1.01 152 ePg	47 34.20 0.0	
GKN	58.18 295 P	26 39.40 -0.1	SPA	59.34 180 iPc	54 16.50 1.9	eSg	47 49.80		
SVW	63.90 28 eP	27 18.00 0.5		1.0s 14.50nm	5.1mb		S.D. = 0.4 on 4 of 4 obs.		
HYB	64.26 283 eP	27 21.00 0.5	NANU	59.54 260 eP	54 15.00 -1.3	? OCT 01, 1990 16h 36m 40.15±2.88s			
TTA	64.42 26 eP	27 21.20 0.4	MAW	72.03 201 iPc	55 37.50 1.9	20.506 S ±19.8km 171.524 W ±41.7km			
	1.1s 10.00nm	4.7mb	MAT	78.79 325 (P)	56 10.00 -4.5X	DEPTH = 33.0km (normol)			
GBA	65.82 279 P	27 28.20 -2.3	PLM	85.82 47 eP	56 52.00 0.8	5.0mb (4 obs.)			
	0.5s 2.50nm	4.5mb	SBB	86.11 46 eP	56 52.00 -0.4	TONGA ISLANDS REGION		(174)	
KOD	66.32 276 eP	27 34.70 0.6	ISA	86.36 44 eP	56 54.00 0.3	BKM	19.33 275 iPd	41 05.20 -0.5	
IMA	66.54 23 eP	27 34.90 0.4	TPC	86.83 47 eP	56 56.00 0.0	PUZ	19.62 205 eP	41 16.00 7.2X	
	1.1s 5.60nm	4.5mb	GLA	86.92 48 eP	56 57.00 0.6	WLZ	20.58 210 P	41 17.10 -1.7	
PMR	67.02 28 eP	27 36.50 -0.9	CLC	86.99 45 eP	56 57.00 0.2	DZM	20.59 262 iPd	41 24.00 4.9X	
	0.7s 6.60nm	4.7mb	GSC	87.14 46 eP	56 57.00 -0.5	KIW	23.35 207 P	41 46.50 0.0	
FBA	68.49 25 eP	27 45.50 -1.1	SNY	90.34 320 P	57 11.60 -0.8	MTW	23.36 205 eP	41 47.90 1.4	
POO	68.58 285 iPc	27 46.50 -1.4	TIA	90.51 313 eP	57 12.10 -1.2	CAW	23.49 206 P	41 48.10 0.3	
INK	74.66 22 eP	28 22.50 -0.8	CN2	90.69 323 P	57 12.40 -1.5	WDW	23.65 206 eP	41 49.20 -0.2	
MBC	78.65 14 eP	28 46.00 0.5	BJI	93.47 315 eP	57 26.00 -0.8	MRW	23.74 206 eP	41 50.00 -0.2	
	1.0s 7.00nm	4.6mb	Z	20s 0.30um	4.7Msz	TCW	23.91 207 eP	41 51.60 -0.2	
MAIO	79.03 305 eP	28 50.00 1.6	ALO	93.57 51 eP	57 27.00 -0.7	KHZ	25.21 207 eP	42 04.90 0.5	
YKA	83.10 27 eP	29 09.40 0.2		1.0s 3.25nm	4.7mb		0.3s 14.00nm	5.0mb	
	1.3s 10.90nm	4.7mb	Z	18s 0.34um	4.9Msz	LTZ	26.06 208 P	42 11.80 -0.5	
WDC	83.23 50 eP	29 16.30 6.0X		e	57 37.70	STK	43.27 245 eP	44 35.90 -4.6X	
ORV	84.22 51 eP	29 20.80 5.5X	TIY	94.41 312 eP	57 29.20 -2.1		1.6s 51.00nm	5.0mb	
MHC	84.58 53 eP	29 23.20 5.9X	Z	20s 0.50um	5.0Msz	ASPA	50.42 256 iPd	45 38.50 1.7	
CMB	85.40 52 eP	29 22.70 1.4	XAN	94.65 307 eP	57 35.00 2.5		1.0s 22.00nm	5.1mb	
FRI	86.16 53 eP	29 30.80 5.8X	SOB1	122.48 127 ePKP	03 21.60 13.9X		IS	51 15.90	
SOD	88.47 340 eP	29 36.00 0.4	MAIO	132.69 293 ePKP	03 27.00 0.2	WB5	50.59 261 eP	45 43.10 5.0X	
LRM	89.06 43 eP	29 39.70 0.5	KEV	138.62 347 ePKP	03 37.00 0.2	CHTO	95.99 288 eP	50 05.00 -0.7	
SUF	91.08 336 iP	29 48.00 0.1	SOD	140.69 345 ePKP	03 41.00 0.4		1.0s 1.25nm	4.3mb	
NUR	92.87 335 eP	29 56.00 -0.1	SUF	144.63 341 iPKP	03 44.30 -3.3X		S.D. = 1.0 on 12 of 16 obs.		
MAW	99.13 203 eP	30 42.00 17.7X		0.4s 12.70nm		OCT 01, 1990 16h 44m 05.18±0.73s			
KIC	144.51 301 PKPc	36 21.04 -0.1	NUR	146.83 340 iPKP	03 51.00 -0.3	39.224 N ± 6.6km 20.497 E ± 6.9km			
TIC	144.59 302 PKPc	36 21.16 -0.1	UPP	149.22 345 iPKP	03 57.40 2.3X	DEPTH = 10.0km (geophysicist)			
LIC	144.82 301 PKPc	36 22.08 0.4	NB2	149.23 352 PKP	03 57.70 2.5X	GREECE-ALBANIA BORDER REGION		(392)	
	0.8s 33.50nm		HFS	149.73 349 ePKP	03 55.70 -0.2	MD 3.0 (ATH).			
ZOBO	147.54 100 PKP	36 34.00 7.2X	Z	20s 0.13um	4.7Msz				
	0.21um	5.0Msz		LR	58 06.00	IGT	0.33 338 ePd	44 11.98 -0.1	
	LR	25 36.00	HRI	151.70 284 ePKP	04 06.00 6.1X	IS	44 19.50		
LPB	147.56 100 ePKP	36 33.00 6.4X	MML	151.90 282 ePKP	04 07.00 6.9X	KEK	0.73 312 ePb	44 19.50 0.0	
CNCB	147.66 101 PKP	36 31.00 4.0X	RMN	152.32 278 ePKP	04 07.00 6.2X	VLS	1.05 176 ePb	44 25.00 0.1	
SIV	154.32 100 PKP	36 53.20 17.1X	KIC	154.75 163 PKP	04 11.30 6.8X	EVR	1.07 106 ePb	44 24.50 -0.8	
	i	37 18.00	MLR	156.52 315 ePKP	04 25.00 18.9X	AGG	1.44 97 iPc	44 32.10 0.8	
	S.D. = 1.0 on 41 of 54 obs.			S.D. = 1.3 on 41 of 57 obs.			eS	44 53.42	
* OCT 01, 1990 14h 44m 13.54±0.45s			% OCT 01, 1990 15h 44m 16.49±1.07s			KZN	1.46 42 ePn	44 31.50 -0.1	
30.831 S ± 9.4km 177.600 W ± 9.0km			39.497 N ± 9.0km 29.064 E ±10.9km			FNA	1.70 23 ePc	44 42.02 7.0X	
DEPTH = 33.0km (normol)			DEPTH = 10.0km (geophysicist)				eS	44 54.86	
5.1mb (7 obs.) 4.8Msz (4 obs.)			TURKEY		(366)	LIT	1.77 60 iPc	44 36.34 0.3	
KERMADEC ISLANDS		(178)	MD 2.8 (ISK).				eS	44 59.98	
PUZ	7.99 204 eP	46 07.90 -2.4	DST	0.35 288 ePg	44 24.00 0.2	OMR	1.90 7 ePn	44 41.70 3.7X	
	eS	47 40.70	YLV	1.09 12 iPn	44 37.30 0.2	GRG	2.26 40 ePd	44 45.26 2.0X	
WEL	12.12 208 eP	47 07.00 0.3				SKO	2.84 14 ePn	44 45.50 -5.9X	
	eS	49 15.00							
SVA	13.16 343 ePd	47 21.90 1.3							
KHZ	13.57 209 eP	47 19.00 -6.1X							
DZM	16.73 298 iPc	48 10.90 3.9X							
BRS	26.07 270 iPd	49 48.00 2.1							

01d 16h

S.D. = 0.6 on 7 of 11 obs.
 OCT 01, 1990 18h 02m 24.91 ± 0.60s
 30.376 N ± 7.3km 103.738 E ± 9.2km
 DEPTH = 33.0km (normal)
 4.3mb (2 obs.)
 SICHUAN PROVINCE, CHINA (307)
 ML 4.2 (BJI).

CD2	0.53	2 ePg	02 37.50	1.4
		Sg	02 49.00	
GYA	4.68	146 Pn	03 34.00	-1.1
		Sn	04 30.20	
KMI	5.31	190 Pnc	03 45.00	0.9
		Pg	04 03.00	
		Sn	04 42.00	
LZH	5.70	1 ePn	03 58.00	8.4X
		Sn	05 03.00	
		Sg	05 29.00	
XAN	5.71	49 Pn	03 49.50	-0.2
		Sn	04 54.50	
		Sg	05 25.50	
GTA	9.57	341 eP	04 47.20	3.6X
TIY	10.27	42 eP	04 52.60	-0.5
BTO	11.41	25 eP	05 07.00	-1.7
	N 10s	0.30um		
	E 10s	0.20um		
CHTO	12.31	202 eP	05 22.60	1.9
PKI	16.28	265 P	06 12.00	-1.1
KKK	16.34	266 P	06 12.00	-1.7
CN2	21.82	46 eP	07 17.50	1.5
SUF	57.85	328 iP	12 16.70	1.4
	0.4s	2.50nm		4.6mb
WB5	58.01	146 eP	12 16.00	-0.9
NB2	65.10	328 P	13 04.40	0.1
	0.7s	0.90nm		4.0mb

S.D. = 1.4 on 13 of 15 obs.
 & OCT 01, 1990 18h 06m 39.58s
 58.732 N 142.779 W
 DEPTH = 10.0km (geophysicist)
 GULF OF ALASKA (15)
 <AGS-P>.

YAH	1.72	17 eP	07 05.18	-4.7
		eS	07 24.61	
PNL	1.98	60 eP	07 08.38	-5.1
BCPM	2.02	51 eP	07 09.26	-4.9
		eS	07 32.58	
TGL	2.03	359 eP	07 09.28	-5.0
HON	2.14	69 eP	07 10.83	-5.0
		eS	07 36.03	
BALM	2.32	5 eP	07 13.41	-5.1
GLB	2.77	350 eP	07 19.54	-5.3

OCT 01, 1990 18h 35m 31.90 ± 0.14s
 18.229 N ± 2.8km 65.932 W ± 2.6km
 DEPTH = 166.9km (6 depth phases)
 4.7mb (45 obs.)
 PUERTO RICO REGION (90)
 Felt strongly in eastern Puerto Rico; felt throughout the island. Also felt in the U.S. and U.K. Virgin Islands.

LPR	0.10	37 P	35 54.00	-1.3
SJG	0.24	241 eP	35 54.50	-1.0
LRS	0.87	274 P	35 57.30	-0.3
MEP	1.00	265 P	35 58.70	0.2
MGP	1.12	259 P	35 59.70	0.1
SKI	3.17	106 eP	36 23.28	0.6
		eS	37 03.37	
NEV	3.38	108 eP	36 26.15	0.8
CPB	3.95	98 eP	37 05.56	32.9X
BPA	4.06	106 eP	36 33.65	-0.4
		eS	37 20.47	
SEG	4.60	113 eP	36 41.63	0.5
PAG	4.62	118 eP	36 42.30	0.9
		S	37 40.00	
MGG	4.98	117 eP	36 46.87	0.8
		S	37 46.00	
BBL	5.04	122 eP	36 47.69	0.7
FDF	5.76	126 iPc	36 56.79	0.4
		S	38 13.20	
CRM	5.92	125 iPc	36 59.21	0.6
MVM	6.06	126 ePc	37 01.18	0.7

SLB	6.42	132 eP	37 05.56	0.2
		eS	38 29.37	
SVV	6.67	136 eP	37 08.47	-0.1
		eTT	41 50.95	
SOA	6.67	136 eP	37 07.94	-0.6
SVB	6.68	137 iP	37 08.73	0.1
		eTT	41 54.43	
GRW	7.31	145 eP	37 17.12	0.0
TPR	8.59	144 eP	37 35.00	0.0
TRN	8.72	149 eP	37 37.52	1.7
UPA	16.09	237 iPd	39 10.00	0.5
	0.6s	119.40nm		5.3mb
DVD	18.77	241 iPc	39 45.00	4.1X
LHS	20.92	324 P	40 04.00	1.4
JSC	21.04	322 P	40 05.00	1.2
BLA	22.80	329 P	40 21.00	0.1
TUL	31.71	310 e(P)	41 41.40	-0.5
	1.2s	12.30nm		4.5mb
SIV	34.34	172 iPd	42 03.00	-1.7
ZOBO	34.35	184 P	42 04.00	-1.4
LPB	34.61	184 P	42 07.00	-0.4
CNCB	34.88	183 P	42 08.00	-1.0
SOB1	36.80	136 iPc	42 26.40	1.0
BAO	38.01	151 P	42 36.10	0.4
ALO	39.58	303 iPd	42 48.90	0.3
	1.0s	11.25nm		4.5mb
		e	43 23.50	157km
ANMO	39.58	303 P	42 49.00	0.4
	0.8s	7.93nm		4.4mb
GOL	40.17	311 P	42 53.00	-0.5
	0.9s	9.47nm		4.4mb
PPD	42.49	160 eP	43 11.60	-0.7
BW06	44.20	313 P	43 26.20	0.0
	1.0s	12.00nm		4.4mb
JFO	45.46	150 eP	43 35.50	-0.6
FFC	45.65	331 eP	43 36.00	-1.2
	0.5s	5.00nm		4.3mb
GLA	46.09	299 eP	43 43.00	2.0
LRM	47.19	316 eP	43 50.20	0.4
TPC	47.22	300 eP	43 51.00	1.1
BAR	47.60	298 eP	43 52.00	-0.8
PLM	47.81	299 eP	43 56.00	1.3
GSC	47.98	301 eP	43 56.00	0.2
PEC	48.11	299 P	43 57.40	0.6
CLC	48.68	302 eP	44 01.00	-0.2
TNP	48.70	305 P	44 01.20	-0.2
	0.8s	5.88nm		4.3mb
SBB	48.74	300 eP	44 02.00	0.3
BCH	50.63	301 P	44 16.00	0.7
MDZ	50.90	183 eP	44 16.90	-1.1
NEW	51.00	318 P	44 18.10	-0.5
	0.9s	18.75nm		4.8mb
TOL	57.10	54 eP	45 04.00	0.9
LKO	59.00	90 P	45 13.78	-2.9
	0.9s	26.00nm		5.1mb
EKA	59.76	36 P	45 22.00	0.8
	0.6s	3.70nm		4.4mb
LPF	59.92	45 eP	45 22.00	-0.4
	0.6s	7.20nm		4.7mb
GRR	60.08	44 eP	45 23.30	-0.2
	0.6s	9.00nm		4.8mb
TIC	60.35	93 P	45 25.32	-0.6
FLN	60.37	44 eP	45 25.30	-0.2
	0.8s	17.45nm		5.0mb
MFF	60.40	46 eP	45 25.60	-0.1
	0.6s	14.45nm		5.0mb
LIC	60.46	93 P	45 26.26	-0.4
EPF	60.54	50 eP	45 27.20	0.4
	0.6s	19.85nm		5.2mb
LDF	60.59	44 eP	45 26.80	-0.2
	0.6s	10.80nm		4.9mb
KIC	60.70	93 P	45 27.88	-0.4
	0.6s	20.00nm		5.2mb
LFF	60.91	48 eP	45 29.20	0.0
	0.6s	9.00nm		4.8mb
LPO	61.22	49 eP	45 30.90	-0.4
	0.6s	15.35nm		5.0mb
RJF	61.48	48 eP	45 32.70	-0.4
	0.8s	16.10nm		5.0mb
LSF	61.53	47 eP	45 33.20	-0.2
	0.6s	5.40nm		4.6mb
CAF	61.85	48 eP	45 35.30	-0.3
	0.8s	15.45nm		4.9mb
TCF	62.01	47 eP	45 36.30	-0.3
	0.6s	9.90nm		4.9mb
MAF	62.25	47 eP	45 37.80	-0.3
	0.6s	3.60nm		4.4mb

BGF	62.46	47 eP	45 39.00	-0.5
	0.6s	8.10nm		4.8mb
AVF	62.81	46 eP	45 41.30	-0.5
	0.8s	9.40nm		4.7mb
SSF	62.93	46 eP	45 42.10	-0.5
	0.6s	6.30nm		4.7mb
SMF	63.14	46 eP	45 44.10	0.1
	0.6s	2.70nm		4.3mb
LOR	63.18	46 eP	45 43.50	-0.7
	0.6s	14.45nm		5.0mb
DOU	63.77	43 P	45 48.10	0.0
MBC	64.06	348 eP	45 50.00	0.5
	1.0s	4.00nm		4.3mb
ENN	64.65	42 eP	45 54.00	0.3
	0.8s	11.00nm		4.8mb
MEM	64.70	42 P	45 54.30	0.3
INK	64.95	338 eP	45 54.00	-1.3
		pP	46 41.00	201kmX
FRF	65.14	50 eP	45 56.00	-0.2
	1.0s	8.00nm		4.6mb
LPL	65.15	48 eP	45 57.60	0.3
	0.6s	3.60nm		4.4mb
LPG	65.17	48 eP	45 57.90	0.4
	0.6s	4.05nm		4.5mb
BSF	65.17	45 eP	45 56.60	-0.6
	1.0s	8.00nm		4.6mb
WTS	65.25	41 eP	45 58.00	0.5
	0.7s	18.00nm		5.1mb
		e	46 38.50	171km
CDF	65.49	45 eP	45 58.00	-0.5
	0.6s	4.50nm		4.5mb
ABH	65.67	43 eP	46 00.62	0.3
SBF	65.70	50 eP	46 00.60	-0.1
	0.8s	13.45nm		4.9mb
PGF	66.92	51 eP	46 08.10	-0.4
	0.8s	6.05nm		4.6mb
NB2	68.01	31 P	46 15.10	0.3
	0.8s	4.40nm		4.3mb
SOTA	68.18	46 iPc	46 16.30	0.0
	0.5s	8.40nm		4.8mb
		iP	46 56.10	166km
		iP	47 15.90	
HFS	69.22	32 eP	46 21.50	-0.6
	0.5s	1.10nm		3.9mb
KHC	69.63	44 iPd	46 25.30	0.3
		e	47 06.00	170km
BRG	69.73	42 iP	46 25.70	0.2
	1.0s	14.00nm		4.7mb
		i	47 06.40	170km
PRU	70.18	43 eP	46 28.50	0.2
		e	47 09.00	168km
ZST	72.05	44 eP	46 39.50	0.1
IMA	72.60	335 P	46 42.20	-0.3
	0.7s	3.34nm		4.2mb
SOD	74.32	24 eP	46 53.00	0.7
STK	151.70	236 iPKPc	55 08.40	6.7X
	0.8s	5.00nm		

S.D. = 0.7 on 100 of 103 obs.
 ? OCT 01, 1990 20h 01m 50.02 ± 3.67s
 51.213 N ± 27.2km 16.060 E ± 23.2km
 DEPTH = 10.0km (geophysicist)
 POLAND (548)

KSP	0.40	158 iP	01 58.20	0.0
	0.3s	58.00nm		
		iS	02 06.60	
BRG	1.38	257 iPg	02 15.40	0.2
		iSg	02 35.60	
PRU	1.56	219 Pn	02 18.50	0.6
		Pg	02 19.70	
		Sn	02 35.80	
		Sg	02 43.10	
CLL	1.92	27		

DHR	3.95	177	eP	43	43.50	5.5X	KEY	122.74	345	ePKP	04	27.00	-1.8	MME	147.27	329	PKP	05	17.50	2.3X
BBU	4.06	173	ePn	43	39.60	0.0	SOD	124.49	343	iPKP	04	31.00	-1.4	CZI	147.29	317	PKP	05	14.80	-0.2
			eSn	44	19.60		SUF	127.79	339	ePKP	04	35.00	-3.9X	AZI	147.31	323	PKP	05	15.00	0.0
RYD	6.26	209	eP	44	09.50	-1.3		0.5s	4.30nm					DIX	147.34	334	ePKPc	05	15.40	0.1
			eS	45	29.00		NUR	129.79	337	ePKP	04	41.00	-1.7	BDI	147.42	328	PKPc	05	16.00	0.7
QASM	7.02	235	eP	44	29.00	7.6X	APD	133.31	342	ePKP	04	38.50	-10.9X	ORX	147.45	333	PKP	05	15.37	0.1
AFIF	8.60	226	ePc	44	53.80	10.4X		0.5s	1.20nm				BOB	147.46	330	PKP	05	15.50	0.2	
MAIO	10.00	51	eP	45	04.00	1.2	NB2	133.63	344	PKP	04	49.30	-0.8	MNS	147.48	324	PKP	05	14.20	-1.2
KMSA	11.01	208	ePc	45	18.70	2.1		0.7s	2.80nm				FLN	147.61	345	ePKP	05	14.80	-0.5	
QUE	14.71	86	eP	46	08.10	2.2	SPC	139.06	327	ePKP	04	58.70	-2.2X		0.8s	40.30nm				
GKN	30.32	86	P	48	48.20	-1.0	KSP	139.87	332	ePKP	05	02.50	0.5	LDF	147.68	345	ePKP	05	14.70	-0.7
DMN	30.82	86	P	48	52.80	-0.9	BRG	140.88	334	ePKP	05	02.60	-1.2		0.8s	26.85nm				
KKN	30.92	86	P	48	53.80	-0.8	SRO	140.93	327	iPKP	05	04.50	0.5	LOR	147.69	339	ePKP	05	15.10	-0.4
	0.5s	11.00nm					CLL	140.94	335	ePKP	05	05.00	1.1		0.8s	30.90nm				
PKI	31.09	86	P	48	55.20	-0.9	PRU	141.27	332	ePKP	04	59.00	-5.6X	Z	20s	0.22um			5.0msz	
	1.0s	24.00nm						Z	19s	0.40um			5.2msz	P11	147.70	328	PKP	05	16.50	0.9
GUN	31.41	85	P	48	58.40	-0.6				e	05	04.50		RMP	147.85	323	PKP	05	18.10	2.2X
S.D. = 1.5 on 10 of 13 obs.							ZST	141.30	328	ePKP	05	05.80	1.1	LBF	147.90	339	ePKP	05	15.60	-0.3
							KHC	142.32	332	PKP	05	01.60	-4.9X		0.9s	41.75nm				
OCT 01, 1990 21h 45m 31.02±0.19s							SKO	142.41	317	ePKP	05	03.00	-3.9X	GRC	147.93	340	PKP	05	17.23	1.4
17.778 S ± 6.2km 167.603 E ± 5.0km							WTS	142.64	340	ePKP	05	06.00	-0.9	LSD	147.95	334	PKP	05	17.63	1.3
DEPTH = 5.0km (geophysicist)								0.8s	8.00nm				SDI	147.95	315	PKP	05	17.20	1.1	
4.9mb (10 obs.) 4.9msz (8 obs.)							GRF	142.91	334	ePKP	05	02.00	-5.5X	SSF	147.99	339	ePKP	05	16.20	0.2
VANUATU ISLANDS (186)							Z	21s	0.20um				4.9msz		0.8s	45.65nm				
							OHR	143.25	316	ePKP	05	02.00	-6.4X	PCP	148.05	331	PKP	05	16.91	0.7
BKM	0.62	80	iPd	45	41.90	-1.5	ENN	143.98	340	ePKP	05	05.00	-4.2X	GRR	148.05	345	ePKP	05	16.10	0.1
			iS	45	49.00			1.0s	16.00nm						0.9s	42.60nm				
PVC	0.68	87	iPd	45	43.00	-1.6	LJU	144.04	328	ePKP	05	06.00	-3.5X	LPL	148.08	334	ePKP	05	17.30	0.8
			iS	45	49.50		FUR	144.06	333	ePKP	05	06.60	-2.9X		0.8s	24.20nm				
DZM	4.41	194	iPc	46	38.40	-1.8	MEM	144.09	340	PKP	05	05.20	-4.2X	LPG	148.08	334	ePKP	05	17.10	0.5
			iS	47	31.10		CEY	144.30	327	ePKP	05	06.80	-3.2X		0.8s	26.85nm				
NDF	9.38	91	eP	47	55.00	5.1X	VOY	144.38	328	ePKP	05	06.20	-4.0X	RSP	148.15	333	PKP	05	17.32	0.9
SGE	9.84	90	eP	47	58.50	2.1X				i	05	07.60		AVF	148.28	339	ePKP	05	16.60	0.2
SVA	10.34	94	eP	48	05.00	1.9	UCC	144.44	342	PKP	05	13.00	3.0X		1.0s	19.00nm				
VUN	10.34	93	eP	48	04.10	0.9	FVI	144.53	330	PKP	05	08.00	-2.2X	BHB	148.39	333	PKP	05	16.70	0.0
HNR	11.14	317	eP	48	10.00	-4.1X	WATA	144.55	332	ePKP	05	07.50	-3.0X	LPF	148.43	345	ePKP	05	17.30	0.7
COO	19.15	225	eP	50	05.00	7.1X		1.0s	13.40nm						0.9s	65.50nm				
RMQ	19.48	240	eP	50	01.50	-0.4	SNF	144.72	342	PKP	05	08.70	-1.7	FIN	148.46	331	PKP	05	18.55	1.7
CTA	20.32	260	iPc	50	14.10	3.2X	SOTA	144.80	332	iPKPd	05	07.70	-3.2X	BNI	148.47	334	PKPc	05	19.70	2.7X
	1.1s	40.51nm						1.0s	53.60nm					RRL	148.53	333	PKP	05	18.96	1.7
		iS	54	09.00					i	06	13.30		ROB	148.55	332	PKP	05	18.86	1.8	
MNG	23.76	165	eP	50	46.20	1.1	ETA	144.82	353	iPKPd	05	08.40	-2.1X	BGF	148.65	340	ePKP	05	17.90	0.8
CNB	23.83	219	e(P)	50	49.00	3.0X		0.9s	86.00nm						0.9s	41.75nm				
CMS	23.98	231	eP	50	49.00	1.6	WLF	144.85	339	PKP	05	10.10	-0.6	PZZ	148.73	333	PKP	05	17.73	0.3
TCW	24.05	168	P	50	48.90	1.0	DOU	144.99	341	PKP	05	09.60	-1.3	ENR	148.80	332	PKP	05	18.45	1.0
MTW	24.27	165	P	50	49.90	-0.2			e	05	15.00		STV	148.83	332	PKP	05	17.93	0.4	
MOW	24.46	166	eP	50	52.40	0.4			e	06	17.60		IMI	148.84	331	PKP	05	19.17	1.7	
BLW	24.46	166	P	50	52.80	0.8	VVI	145.14	329	PKP	05	10.00	-1.4	AGO	149.00	339	PKP	05	19.82	2.2X
STK	27.38	234	eP	51	19.80	0.5	OGA	145.15	331	iPKPd	05	09.10	-2.5X	MAF	149.04	340	ePKP	05	19.10	1.4
	1.2s	7.00nm					ECB	145.20	354	iPKPd	05	08.40	-2.8X		0.9s	24.55nm				
WB5	31.50	261	eP	51	55.00	-1.3		0.9s	91.00nm				SBF	149.08	331	ePKP	05	18.60	0.7	
ASPA	32.01	254	iPc	51	59.50	-1.3	ECP	145.34	353	iPKPd	05	08.00	-3.4X		1.0s	54.00nm				
	0.5s	12.30nm						0.7s	187.00nm				TCF	149.10	340	ePKP	05	19.20	1.4	
Z	20s	3.38um					CTI	145.47	330	PKP	05	10.50	-1.6		1.0s	42.00nm				
		LR	03	56.00			CDF	145.50	337	ePKP	05	09.10	-2.9X	PYM	149.30	339	PKP	05	20.93	2.7X
NWAO	47.52	241	eP	54	10.00	0.7		1.0s	124.00nm				PGF	149.32	328	ePKP	05	19.00	1.4	
SBA	60.11	180	e(P)	55	38.50	-2.7	SLE	145.54	335	ePKPc	05	09.50	-2.5X		0.8s	56.40nm				
MAT	60.75	333	(P)	55	43.00	-3.1X	SAX	145.60	333	ePKPc	05	10.20	-2.3X	LSF	149.35	341	ePKP	05	19.30	1.2
	1.0s	19.00nm					CAI	145.65	133	ePKP	05	09.50	-3.7X		0.8s	33.60nm				
		eS	04	12.00			FEL	145.65	335	ePKP	05	10.29	-2.1	MFF	149.52	343	ePKP	05	19.80	1.4
MDJ	71.11	332	eP	56	50.50	-1.9	OSS	145.69	332	ePKPc	05	10.70	-1.8		0.8s	45.65nm				
SPA	72.33	180	eP	56	57.30	-2.4	ZLA	145.81	335	ePKPc	05	09.90	-2.6X	LBL	149.66	338	PKP	05	22.07	3.5X
	1.0s	24.00nm					VAL	145.87	358	iPKP	05	12.00	-0.3	FRF	149.67	332	ePKP	05	20.40	1.7
CN2	72.41	329	eP	56	59.00	-1.2	LLS	146.05	333	ePKPc	05	11.40	-1.7		1.0s	40.00nm				
	1.0s	20.00nm					BSF	146.16	337	ePKP	05	10.80	-2.4X	LRG	149.88	332	ePKP	05	21.30	2.3X
Z	24s	0.51um						1.0s	20.00nm						0.9s	42.60nm				
BJI	74.83	322	eP	57	13.50	-0.8	HAU	146.18	337	ePKP	05	11.10	-2.0	LMR	149.91	332	ePKP	05	21.10	2.1X
	1.0s	6.00nm						0.8s	21.50nm						0.9s	37.65nm				
Z	16s	0.58um						Z	20s	0.13um			4.7msz	RJF	150.19	340	ePKP	05	22.00	2.6X
		eS	06	48.00			SAL	146.32	330	PKP	05	17.00	3.7X		0.8s	25.50nm				
TIY	75.71	318	eP	57	19.30	-0.3	MDI	146.57	331	PKP	05	13.00	-0.7	CAF	150.35	339	ePKP	05	22.30	2.6X
	Z	18s	0.50um				ARV	146.60	326	PKP	05	11.50	-2.4X		0.9s	14.75nm				
N	14s	0.50um					TMA	146.69	333	ePKPc	05	13.30	-0.9	LFF	150.77	341	ePKP	05	22.90	2.6X
XAN	75.98	313	Pd	57	21.00	-0.1	ROI	146.81	317	PKP	05	15.00	0.6		0.8s	34.90nm				
CHG	76.63	295	eP	57	26.20	1.2	CSI	146.88	317	PKP	05	14.40	-0.1	LPO	150.85	340	ePKP	05	23.50	3.1X
CHTO	76.63	295	eP	57	24.00	-1.0	SFI	146.88	327	PKP	05	16.50	2.3X		0.8s	30.90nm				
	0.9s	4.69nm					TDS	146.92	317	PKP	05	13.90	-0.6	EPF	152.60	339	ePKP	05	27.	

01d 22h

NNL	0.07	145	iP	23	33.31	2.5
BRLK	0.42	143	iP	23	34.72	-0.4
HOM	0.46	197	iP	23	35.46	-0.1
CNPM	0.58	173	iP	23	36.42	-0.6
			eS	23	45.54	
NKA	0.65	6	iP	23	39.53	1.7
XLV	0.67	195	iP	23	37.10	-1.1
			eS	23	48.27	
RDT	0.70	313	iP	23	38.06	-0.6
			eS	23	48.31	
SLKM	0.71	54	iP	23	38.01	-0.7
			eS	23	48.71	
RSO	0.77	298	iP	23	39.09	-0.7
SEW	0.97	89	eP	23	41.10	-1.1
OPT	1.04	245	iP	23	42.39	-0.8
SPU	1.13	343	iP	23	44.18	-0.4
			iS	23	58.91	
CKL	1.20	337	iP	23	45.03	-0.5
CRP	1.23	342	iP	23	45.90	-0.2
CGLM	1.25	346	iP	23	46.06	-0.2
AUE	1.25	234	iP	23	45.35	-0.9
BGL	1.27	337	iP	23	46.29	-0.2
AUH	1.28	236	eP	23	45.97	-0.7
AUI	1.29	234	eP	23	45.86	-0.9
NCG	1.36	344	iP	23	47.70	-0.2
			eS	24	05.11	
SUA	1.40	13	eP	23	48.31	-0.1
PDB	1.45	259	eP	23	48.18	-0.8
			eS	24	06.84	
PMS	1.46	37	eP	23	49.12	0.0
CDD	1.65	225	iP	23	51.33	-0.5
PWA	1.72	25	eP	23	53.34	0.6
MCNL	1.76	240	eP	23	52.20	-1.2
PLRM	1.86	35	iP	23	54.05	-0.7
PMR	1.86	35	ePc	23	54.10	-0.6
MTU	1.87	92	eP	23	53.12	-1.9
SKT	1.89	358	eP	23	55.39	0.2
GHO	2.06	34	iP	23	57.04	-0.7
GLI	2.26	68	iP	23	57.98	-2.5
SML	2.27	40	eP	23	59.79	-0.8
SVW	2.32	298	iPc	23	59.50	-1.9
CUT	2.37	13	eP	24	02.69	0.7
KDC	2.43	194	eP	23	59.10	-3.7
VZW	2.57	66	iP	24	02.71	-2.2
SCM	2.63	47	eP	24	05.19	-0.6
VLZ	2.69	65	iP	24	04.73	-1.8
HUR	3.01	15	eP	24	13.18	2.1
KLU	3.02	60	iP	24	09.61	-1.7
TOA	3.23	49	iPc	24	13.50	-0.8
RND	3.53	19	eP	24	18.30	-0.3
TTA	3.60	324	eP	24	18.31	-1.3
MCK	3.82	17	eP	24	23.28	0.6
GLB	3.95	67	eP	24	21.52	-2.9
TGL	4.29	77	eP	24	26.63	-2.6
DDM	4.52	33	eP	24	32.87	0.3
BALM	4.56	74	eP	24	29.92	-3.1
NEA	4.62	12	eP	24	32.16	-1.6
WRH	4.65	18	eP	24	32.99	-1.2
HDA	4.79	24	eP	24	35.42	-0.8
CCB	4.86	18	eP	24	35.54	-1.6
DOT	4.96	41	eP	24	36.88	-1.9
FBA	5.09	17	eP	24	04.90	0.3
GLM	5.24	19	eP	24	43.05	0.4
IMA	6.08	351	ePc	24	53.60	-0.9
MBC	19.62	22	eP	27	53.00	1.5

58 abs. associated

OCT 01, 1990 22h 56m 17.86 ± 0.74s						
38.291 N ± 0.5km 25.029 E ± 7.3km						
DEPTH = 10.0km (geophysicist)						
AEGEAN SEA (365)						
ML 3.2 (ATH).						
ATH	1.08	253	ePg	56	38.40	0.2
			eSb	56	53.50	
APE	1.28	162	ePg	56	41.00	-0.7
PRK	1.36	45	ePb	56	41.50	-1.3
IZM	1.76	86	ePn	56	50.00	1.4
EZN	1.83	33	ePn	56	46.00	-3.6X
VLI	2.29	227	ePn	56	56.00	-0.2
ITM	2.70	247	ePn	57	02.50	0.4
BNT	3.05	46	ePn	57	02.00	-5.0X
DST	3.10	64	ePn	57	08.00	0.3
S.D. = 1.1 on 7 of 9 obs.						

* OCT 01, 1990 22h 59m 00.57 ± 0.85s
38.344 N ± 0.0km 25.000 E ± 9.1km

DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 3.1 (ATH).

ATH	1.08	250	ePb	59	21.50	0.7
			eSn	59	36.50	
APE	1.34	162	ePn	59	24.50	-0.8
PRK	1.34	47	ePb	59	25.60	0.3
IZM	1.78	88	ePn	59	33.00	1.4
EZN	1.80	34	ePn	59	30.50	-1.4
VLI	2.31	226	ePn	59	39.00	-0.2
S.D. = 1.3 on 6 of 6 obs.						

& OCT 02, 1990 00h 17m 47.15s
66.123 N 151.290 W

DEPTH = 41.8km
ALASKA (676)
<AGS-P>.

IMA	0.97	268	eP	18	04.38	-0.3
			eS	18	17.20	
NEA	1.81	148	eP	18	16.45	0.1
			eS	18	36.44	
FBA	1.91	129	eP	18	18.52	0.8
			eS	18	39.74	
GLM	1.98	123	eP	18	19.16	0.2
			eS	18	42.46	
CCB	2.08	134	eP	18	20.40	0.2
			eS	18	44.82	
WRH	2.14	140	eP	18	20.89	-0.1
			eS	18	46.69	
HDA	2.51	131	eP	18	26.12	-0.2
			eS	18	57.68	

7 obs. associated

OCT 02, 1990 00h 22m 43.30 ± 0.59s
43.099 N ± 6.7km 0.449 W ± 4.3km

DEPTH = 10.0km (geophysicist)
PYRENEES (378)
ML 2.4 (LDG).

OGE	0.07	346	Pg	22	45.76	0.1
JAU	0.08	136	Pg	22	46.15	0.2
			Sg	22	48.14	
ESCF	0.09	258	Pg	22	45.82	-0.2
			Sg	22	47.60	
ATE	0.19	266	Pg	22	47.32	-0.1
			Sg	22	50.31	
LHE	0.22	214	Pg	22	48.21	0.0
			Sg	22	51.28	
ISSF	0.26	255	Pg	22	48.99	0.1
			Sg	22	52.76	
MADF	0.28	280	Pg	22	49.25	0.1
			Sg	22	53.43	
EPF	0.58	96	Pg	22	55.00	-0.1
			Sg	23	03.80	
LPO	1.98	36	Pg	23	22.00	4.8X
			Sg	23	46.00	
LFF	2.03	25	Pg	23	22.80	4.9X
			Sg	23	48.00	
CAF	2.57	44	Pg	23	33.00	7.3X
			Sg	24	04.20	
RJF	2.62	32	Pg	23	32.80	6.4X
			Sg	24	05.80	
S.D. = 0.2 on 8 of 12 obs.						

% OCT 02, 1990 01h 05m 37.98 ± 1.11s
43.107 N ± 10.7km 0.431 W ± 9.0km

DEPTH = 10.0km (geophysicist)
PYRENEES (378)
MD 1.0 (STR).

OGE	0.07	333	Pg	05	40.37	0.0
			Sg	05	42.16	
JAU	0.08	147	Pg	05	40.67	0.0
			Sg	05	42.55	
ESCF	0.11	255	Pg	05	40.51	-0.3
			Sg	05	42.21	
ATE	0.20	264	Pg	05	42.86	0.5
			Sg	05	45.05	
MADF	0.29	278	Pg	05	43.83	-0.2
			Sg	05	48.23	
S.D. = 0.4 on 5 of 5 obs.						

OCT 02, 1990 02h 06m 23.60 ± 0.46s
43.919 N ± 3.4km 7.724 E ± 3.4km
DEPTH = 16.4 ± 6.1 km

NEAR SOUTH COAST OF FRANCE (379)
ML 2.9 (LDG), 2.7 (GEN).

IMI	0.12	94	P	06	27.45	0.0
			S	06	30.12	
SBF	0.22	255	Pg	06	28.70	-0.1
			Sg	06	32.00	
AUTN	0.23	290	Pg	06	28.70	-0.4
			Sg	06	32.28	
AURF	0.29	264	Pg	06	29.74	-0.3
REVF	0.31	235	Pg	06	30.50	0.1
TOUF	0.36	286	Pg	06	30.98	-0.3
ENR	0.38	325	P	06	31.25	-0.3
			S	06	36.13	
ROB	0.39	16	P	06	32.07	0.3
			S	06	37.41	
MVIF	0.41	267	Pg	06	32.04	-0.2
			Sg	06	38.04	
STV	0.43	319	P	06	32.27	-0.2
			S	06	37.71	
FIN	0.45	50	P	06	33.19	0.4
			S	06	39.20	
CALN	0.63	255	Pg	06	35.72	-0.1
DOI	0.68	330	P	06	36.60	-0.1
			eSg	06	45.70	
PZZ	0.74	323	P	06	37.81	0.1
			S	06	46.83	
PCP	0.86	43	P	06	40.58	0.9
			S	06	51.77	
FRF	0.86	246	Pg	06	40.10	0.4
			Sg	06	51.80	
LMR	1.06	237	Pg	06	43.80	0.7
			Sg	06	57.60	
LRG	1.09	245	Pg	06	44.60	1.0
			Sg	06	59.90	
RRL	1.21	326	P	06	45.19	-0.6
			S	07	00.61	
RSP	1.28	345	P	06	45.60	-1.2
			S	07	01.51	
BNI	1.36	327	P	06	48.30	0.3
			eSg	07	04.00	
LSD	1.59	345	P	06	50.52	-0.9
			S	07	09.59	
PGF	1.66	145	Pn	06	51.08	-1.1
LPG	1.72	337	Pg	06	54.50	1.2
			Sg	07	16.70	
LPL	1.75	336	Pg	06	54.80	1.2
S.D. = 0.7 on 25 of 25 obs.						

& OCT 02, 1990 03h 51m 48.42s
62.530 N 151.146 W

DEPTH = 90.4km
CENTRAL ALASKA (1)
<AGS-P>.

CUT	0.43	107	iP	52	02.69	-0.1
SKT	0.58	198	iP	52	03.92	-0.2
HUR	0.83	56	iP	52	06.26	-0.3
			eS	52	19.21	
PWA	1.07	145	eP	52	09.24	0.1
SUA	1.09	170	iP	52	09.93	0.3
NCG	1.23	203	eP	52	10.93	-0.3
			eS	52	28.88	
GHO	1.29	125	eP	52	12.17	0.1

PVC	0.52	93	iP	09 04.00	-0.7		0.8s	16.10nm			MTMW	3.35	58	P	45 42.19	-0.3
			iS	09 12.50		SMF	148.23	339 ePKP	28 37.90	3.3X	FL2	3.36	54	P	45 42.94	0.4
DZM	4.51	196	iPc	10 02.10	0.4		1.0s	12.00nm			CZM	3.41	50	P	45 43.23	0.1
			iS	10 51.10		AVF	148.27	339 ePKP	28 37.90	3.3X	SHW	3.42	55	P	45 44.25	0.8
RMO	19.65	240	iP	13 23.00	0.1		0.8s	4.70nm			VBEM	3.43	76	P	45 43.66	0.1
STK	27.54	234	eP	14 39.70	0.0	LPF	148.40	346 ePKP	28 38.40	3.6X	HSR	3.44	56	P	45 44.13	0.3
WBS	31.67	261	eP	15 14.90	-1.6		0.6s	14.45nm			STD	3.45	55	P	45 44.40	0.5
ASPA	32.18	254	iPc	15 19.80	-1.3	BGF	148.64	340 iPKPc	28 39.10	3.8X	CPW	3.46	38	P	45 43.52	-0.4
	0.5s	10.30nm			5.0mb		0.8s	18.80nm			OBH	3.46	28	P	45 43.82	-0.1
Z	18s	0.41um			4.2msz	GRN	148.71	335 PKP	28 39.60	4.1X	VLL	3.47	69	P	45 44.40	0.3
			LR	27 20.00		SURF	148.88	333 PKP	28 40.36	4.4X	APW	3.47	46	P	45 44.39	0.4
MAT	60.76	333	iPc	19 01.20	-3.5X	PLDF	148.89	338 PKP	28 40.11	4.3X	ESD	3.47	56	P	45 44.74	0.5
SPA	72.40	180	iPc	20 19.20	0.7	AGO	148.99	339 PKP	28 40.06	4.2X	CDFW	3.49	57	P	45 44.22	-0.2
	1.0s	13.00nm			4.9mb	MAF	149.03	340 iPKPc	28 40.30	4.4X	TDL	3.52	53	P	45 44.81	0.0
CHG	76.75	295	eP	20 45.00	0.9		0.8s	8.05nm			APM	3.56	65	P	45 45.81	0.5
CHTO	76.75	295	eP	20 45.30	1.2	TCF	149.09	340 iPKPc	28 40.30	4.3X	VFP	3.57	72	P	45 45.45	-0.2
	1.0s	4.00nm			4.4mb		0.9s	11.45nm			KOSW	3.60	52	P	45 45.79	-0.1
KEY	122.71	345	ePKP	27 46.00	-1.0	SBF	149.10	332 iPKPc	28 40.10	4.0X	LMW	3.67	48	P	45 46.59	-0.4
NUR	129.79	337	ePKP	27 57.00	-3.9X		0.8s	24.20nm			GULW	3.69	62	P	45 47.57	0.3
NB2	133.61	344	PKP	28 07.90	-0.4	PYM	149.30	339 PKP	28 41.16	4.7X	QOW	3.73	22	P	45 48.15	0.4
	0.8s	2.30nm				LSF	149.34	341 iPKPc	28 40.60	4.2X	ASR	3.79	59	P	45 48.43	-0.3
ZST	141.32	328	ePKP	28 23.60	0.7		0.8s	13.45nm			OSD	3.95	26	P	45 51.14	0.1
KHC	142.34	332	ePKP	28 20.50	-4.3X	PGF	149.35	328 iPKPc	28 41.20	4.6X	LOH	3.98	50	P	45 51.79	0.5
OHR	143.31	316	ePKP	28 23.00	-3.7X		0.7s	30.85nm			GLK	3.99	54	P	45 51.68	0.2
MEM	144.08	340	PKP	28 26.10	-1.5	MFF	149.50	343 ePKP	28 41.20	4.6X	RVC	4.01	47	P	45 52.26	0.5
CEY	144.33	327	ePKP	28 26.90	-1.4		0.8s	18.80nm			HDB	4.03	33	P	45 51.67	-0.3
VOY	144.40	328	iPKP	28 26.70	-1.8	LBL	149.66	338 PKP	28 42.30	5.5X	VIPM	4.06	85	P	45 52.06	-0.5
FVI	144.55	330	PKP	28 27.00	-1.5	FRF	149.69	332 iPKPc	28 41.50	4.6X	WPW	4.10	53	P	45 53.00	0.0
WATA	144.57	332	iPKPd	28 27.30	-1.5		0.8s	13.45nm			FMW	4.16	49	P	45 53.96	-0.1
	0.7s	4.10nm				LRG	149.90	332 iPKPc	28 42.40	5.2X	GL2	4.20	65	P	45 54.18	-0.3
		e		28 36.00			0.8s	17.45nm			STW	4.25	24	P	45 55.39	0.3
SQTA	144.82	332	iPKPd	28 28.40	-0.8	LMR	149.93	332 iPKPc	28 42.30	5.0X	HTW	4.70	40	P	46 01.12	-0.5
	0.7s	16.40nm					0.8s	20.15nm			JBO	4.72	74	P	46 01.20	-0.7
		i		28 32.90		RJF	150.18	340 ePKP	28 43.20	5.6X	EBG	4.78	55	P	46 02.67	0.0
		i		28 37.30			0.8s	10.75nm			MXC	4.78	60	P	46 02.65	-0.1
GWF	144.90	337	PKP	28 28.62	-0.5	CAF	150.34	339 iPKPc	28 43.70	5.8X	MCW	4.98	27	P	46 05.46	0.0
DOU	144.98	341	iPKPd	28 28.80	-0.3		0.8s	5.35nm			MDW	5.13	61	P	46 07.44	-0.2
OGA	145.17	332	ePKP	28 29.50	-0.4	LFF	150.76	341 iPKPc	28 44.70	6.2X	RSW	5.15	64	P	46 07.74	-0.3
WLS	145.47	337	PKP	28 30.30	0.2		0.8s	16.10nm			ETW	5.30	49	P	46 09.69	-0.4
CDF	145.50	337	PKP	28 30.30	0.1	LPO	150.84	340 ePKP	28 44.90	6.3X	GBL	5.32	62	P	46 09.88	-0.3
SLE	145.55	335	ePKPc	28 30.30	0.0		0.8s	18.80nm			WAH2	5.32	60	P	46 09.98	-0.2
SAX	145.61	334	ePKPc	28 30.90	0.2	EPF	152.59	340 ePKP	28 48.80	7.5X	LOCW	5.38	61	P	46 10.96	-0.2
FEL	145.65	336	ePKP	28 30.56	0.0		0.8s	6.70nm			CRF	5.45	60	P	46 11.79	-0.4
OSS	145.70	332	ePKPc	28 31.60	0.8		S.D. = 1.0 on 39 of 89 obs.				RC1	5.48	59	P	46 12.11	-0.4
ECH	145.70	337	PKP	28 30.57	0.1		OCT 02, 1990 05h 15m 01.96±0.91s				PNT	6.78	40	iP	46 29.00	-1.9
ZLA	145.82	335	ePKPc	28 31.20	0.4		33.502 S ± 6.7km 70.441 W ± 7.5km									
MOF	146.01	336	PKP	28 31.10	0.0		DEPTH = 10.0km (geophysicist)									
VITF	146.13	338	PKP	28 31.65	0.5		CHILE-ARGENTINA BORDER REGION (127)									
BSF	146.16	337	ePKP	28 32.00	0.6											
	0.8s	8.05nm														
HAU	146.18	337	ePKP	28 32.20	0.9	PCH	0.13	207 iPd	15 06.00	0.8						
	0.7s	11.00nm						iS	15 08.50							
LOMF	146.54	336	PKP	28 33.51	1.5	SAN	0.19	285 iPd	15 07.40	1.2						
ARV	146.63	326	PKP	28 31.00	-1.2			iS	15 11.70							
TMA	146.71	333	ePKPc	28 34.00	1.6	PEL	0.41	330 iPd	15 11.00	0.6						
ROI	146.87	317	PKP	28 34.00	1.3			iS	15 17.50							
CSI	146.94	318	PKP	28 34.60	1.8	ROCH	0.71	318 eP	15 16.00	-0.2	CUT	0.41	133 iP	34 51.82	-0.1	
CRE	147.07	327	PKP	28 36.50	3.5X			i	15 26.70				eS	35 05.28		
ASS	147.07	325	PKP	28 35.00	2.1X	JACH	0.83	351 iP	15 17.20	-0.8	HUR	0.66	63 iP	34 53.72	-0.3	
SGO	147.12	320	PKP	28 35.00	2.1X			iS	15 29.20				eS	35 05.28		
MMK	147.14	334	ePKPc	28 36.00	2.0X	LNV	0.93	241 iP	15 18.40	-1.2	SKT	0.76	202 iP	34 54.82	-0.3	
MME	147.30	329	PKP	28 36.30	2.8X			iS	15 31.50				eP	34 50.42	0.1	
SDI	147.31	322	PKP	28 36.00	2.6X	LCCH	0.94	271 iP	15 19.50	-0.4	PWA	1.15	154 eP	35 17.11		
CZI	147.35	317	PKP	28 35.30	1.9X			iS	15 32.70				eS	35 15.72		
DIX	147.35	334	ePKPc	28 36.20	2.6X	MDZ	1.47	66 eP	15 28.70	0.1	RND	1.19	52 eP	34 59.70	-0.2	
AZI	147.35	323	PKP	28 36.00	2.7X			S.D. = 1.0 on 8 of 8 obs.					eS	35 15.72		
BDI	147.45	329	PKP	28 35.00	1.5								eP	35 00.44	-0.1	
BOB	147.48	331	PKP	28 37.00	3.5X								iP	35 01.32	-0.1	
MNS	147.52	324	PKPc	28 36.00	2.4X								eS	35 19.23		
FLN	147.59	345	ePKP	28 35.80	2.3X								eP	35 01.81	-0.4	
	0.8s	21.50nm											eS	35 20.41		
LDF	147.66	345	ePKP	28 36.00	2.4X								iPd	35 01.80	-0.4	
	0.6s	6.30nm											iP	35 02.25	-0.5	
LOR	147.68	339	iPKPc	28 36.70	3.0X								eS	35 21.14		
	1.0s	20.00nm											eP	35 02.87	-0.7	
PII	147.73	328	PKP	28 36.00	2.2X	NLO	2.68	47 P	45 33.46	0.6	CGLM	1.48	201 eP	35 02.87	-0.5	
LBF	147.89	339	iPKPc	28 37.20	3.1X	HBO	2.89	98 P	45 36.23	0.3	CRP	1.54	203 eP	35 04.04	-0.4	
	0.8s	6.70nm				PGO	2.96	65 P	45 37.49	0.8	PMS	1.58	155 eP	35 04.86	0.0	
GRC	147.92	340	PKP	28 37.57	3.5X			S	46 09.38		BGL	1.59	207 eP	35 05.09	0.1	
SSF	147.98	340	iPKPc	28 37.60	3.4X	GT2	2.98	72 P	45 37.21	0.1	SPU	1.60	200 eP	35 03.94	-1.2	
	0.8s	20.15nm						S	46 10.64		CKL	1.64	205 eP	35 05.17	-0.5	
SOI	148.01	315	PKP	28 38.00	3.5X			S	45 38.33	0.2	SCM	1.89	115 eP	35 07.83	-1.1	
GRR	148.03	346	ePKP	28 37.30	3.1X	BMW	3.05	44 P	45 38.83	0.0	NKA	1.96	185 eP	35 12.31	2.6	
	0.8s	12.10nm				RYW	3.10	52 P	45 42.67	0.0	NEA	2.07	23 eP	35 10.20	-1.1	
LPL	148.08	334	iPKPc	28 38.30	3.6X			S	46 12.67		SLKM	2.21	171 eP	35 13.61	0.4	
	0.8s	12.75nm				ONR	3.12	33 P	45 38.95	0.0	RDY	2.24	199 eP	35 13.12	-0.5	
LPG	148.09	334	iPKPc	28 38.50	3.7X	VLMM	3.25	66 P	45 41.25	0.2	TOA	2.29	103 iPc	35 13.50	-0.8	
						LVP	3.25	56 P	45 41.07	0.0	TTA	2.35	278 iPc	35 14.20	-1.0	
								S	46 16.39		RSO	2.40	202 eP	35 14.95	-1.0	
						TDH	3.34	71 P	45 42.42	0.0	CCB	2.41	34 eP	35 14.68	-1.2	

02d 07h

HDA	2.48	44	eP	35	15.84	-1.0	GUMO	38.42	322	eP	55	52.00	2.7X	PPD	125.03	134	ePKP	07	27.40	-0.8
GLI	2.57	133	eP	35	16.40	-1.6	MBL	45.28	257	eP	56	46.00	0.5	BUL	125.13	229	iPKPc	07	29.00	0.4
FBA	2.62	31	iPd	35	17.40	-1.3		0.9s	27.00nm				5.2mb				ipP	07	38.40	
KLU	2.64	115	eP	35	17.05	-2.0	NANU	49.16	255	eP	57	16.00	0.1	KRI	126.47	233	iPKPc	07	28.10	-3.3X
VLZ	2.67	124	eP	35	17.28	-2.1	HON	51.18	42	P	57	45.00	13.8X	SUF	127.73	339	ePKP	07	32.00	-0.2
SVW	2.73	237	iPd	35	19.50	-0.8	Z	20s	1.17um				4.9Msz	NUR	129.74	337	iPKP	07	36.00	-0.1
GLM	2.79	33	eP	35	20.10	-1.0	SBA	60.25	180	e(P)	58	36.00	0.1		0.7s	24.00nm				
KNIM	2.80	146	eP	35	19.40	-1.8	MAT	60.72	333	eP	58	38.00	-1.6	APD	133.24	343	ePKP	07	32.60	-10.1X
CNPM	3.18	183	eP	35	25.99	-0.4		1.1s	45.57nm				5.5mb		0.7s	2.50nm				
IMA	3.60	342	iPd	35	32.00	-0.4			eS	06	54.00			NBZ	133.55	345	PKP	07	43.00	-0.4
36 obs. associated							TSRJ	60.89	330	eP	58	37.70	-3.0X		0.8s	8.00nm				
OCT 02, 1990 07h 48m 27.97± 0.84s							MTMJ	60.93	333	P	58	40.70	-0.4	SPC	139.06	328	iPKP	07	53.80	-0.5
17.634 S ± 4.0km 167.831 E ± 4.1km							NIJ	60.97	334	P	58	41.10	-0.1			e	11	31.00		
DEPTH = 26.3 ± 6.0 km							NJ2	68.13	316	Pc	59	29.00	1.0			e	27	46.30		
5.3mb (17 obs.) 5.3Msz (7 obs.)							WHN	70.28	313	eP	59	46.50	5.3X			e	30	41.10		
VANUATU ISLANDS (186)							SNG	70.79	284	eP	59	41.00	-3.6X			e	31	29.50		
CENTROID, MOMENT TENSOR (HRV)							MDJ	71.08	332	Pc	59	45.60	-0.2	KSP	139.85	332	ePKP	07	47.20	-8.2X
Data Used: GDSN							CN2	72.40	329	Pc	59	53.50	-0.2			i	07	58.00		
L.P.B.: 13S, 23C								1.0s	40.00nm				5.4mb	BRG	140.85	334	ePKP	07	47.60	-9.6X
Centroid Location:							SPA	72.48	180	iPc	59	53.70	-0.4			e	07	57.60		
Origin Time 07:48:35.1 1.0								1.0s	98.50nm				5.8mb	CLL	140.90	335	ePKP	07	52.00	-5.3X
Lat 17.39S 0.13 Lon 167.71E 0.07							GYA	73.81	305	P	00	03.00	0.5	Z	20s	1.00um			5.6Msz	
Dep 15.0 FIX Half-duration 1.7							BJI	74.86	321	eP	00	08.00	-0.1	SOB1	141.05	131	ePKP	07	53.60	-5.1X
Moment Tensor: Scale 10**16 Nm									eS	09	46.00				e	07	58.30			
Mrr= 8.89 0.42 Mtt= 0.17 0.60							TIY	75.75	318	Pc	00	13.00	-0.4	PRU	141.24	332	ePKP	07	52.50	-5.4X
Mff=-9.06 0.69 Mrt=-0.13 1.44									pP	00	21.00	26kmX			e	10	15.00			
Mrf=-6.57 2.06 Mtr= 1.29 0.45							XAN	76.05	313	P	00	15.50	0.4	ZST	141.29	328	ePKP	07	58.70	0.6
Principal Axes:									eS	09	55.50		MOX	141.97	335	ePKP	07	54.50	-4.8X	
T Vol= 11.06 Plg=71 Azm= 99							KMI	76.29	302	eP	00	17.00	0.1		1.2s	9.00nm				
N 0.26 4 355								1.5s	80.00nm				5.5mb	KHC	142.30	332	PKP	07	56.50	-3.4X
P -11.33 18 264									pP	00	23.50	21kmX			1.3s	12.00nm				
Best Double Couple: Mo=1.1*10**17							CHG	76.77	295	eP	00	20.10	0.7	WTS	142.58	341	ePKP	08	00.00	-0.2
NP1: Strike=347 Dip=27 Slip= 80									e	08	18.20				1.0s	26.00nm				
NP2: 178 63 95							CHTO	76.77	295	eP	00	16.60	-2.8	WET	142.60	333	ePKP	07	56.80	-3.6X
BKM	0.39	95	iPd	48	37.40	0.9	HHC	78.14	320	P	00	28.00	1.4	GRF	142.88	335	ePKPc	07	58.70	-2.1X
			iS	48	46.00				pP	00	34.00	19kmX		OHR	143.30	317	ePKP	07	57.50	-4.4X
PVC	0.47	103	iPd	48	38.00	0.3	CD2	78.20	308	eP	00	28.10	1.0	TNS	143.52	338	ePKPd	08	00.20	-1.8
DZM	4.60	196	iPd	49	35.10	-2.6			eS	10	23.60			ENN	143.92	340	ePKP	08	00.00	-2.5X
			iS	50	24.90		BTO	78.95	319	eP	00	32.00	0.9		0.9s	23.00nm				
SGE	9.62	91	eP	50	52.00	4.0X	MAW	79.41	202	eP	00	34.00	1.0	VBY	144.03	327	ePKP	08	02.80	-0.1
VUN	10.13	94	ePd	50	59.00	4.0X	LZH	80.66	312	eP	00	42.00	1.5	MEM	144.03	340	PKP	08	01.00	-1.7
HNR	11.19	316	eP	51	13.00	3.7X		2.0s	46.00nm				5.2mb	FUR	144.03	333	iPKPd	08	01.80	-1.1
			e(S)	53	32.00		Z	18s	0.72um				5.1Msz	LJU	144.04	328	ePKPd	08	01.00	-1.9
SVO	11.48	316	eP	51	13.00	-0.4	E	13s	0.62um					ABH	144.13	338	ePKP	08	01.02	-2.0
BRS	16.95	232	eP	52	24.00	-1.0	SVW	83.75	17	iPd	00	56.30	0.5	CEY	144.30	327	ePKP	08	02.00	-1.4
			i	52	29.00			1.0s	13.10nm				5.1mb	VOY	144.37	328	iPKPd	08	01.90	-1.7
			i	52	56.00		GTA	85.06	314	eP	01	04.20	1.3	FVI	144.52	330	PKP	08	02.00	-1.6
			i	52	56.00			1.2s	40.00nm				5.5mb	WATA	144.53	332	iPKPd	08	03.00	-0.9
COO	19.40	225	ePc	52	55.00	-0.2	TTA	85.15	16	ePc	01	02.70	-0.1		0.8s	26.90nm				
	1.0s		54.00nm			4.8mb		1.1s	69.06nm				5.8mb	RIY	144.59	327	ePKP	08	02.90	-0.9
RMO	19.74	240	iP	52	58.00	-0.9			pP	01	12.30	30kmX		SNF	144.65	342	PKP	08	03.30	-0.5
RAB	20.34	309	e(P)	53	04.00	-1.2	GCC	85.51	49	ePKP	01	06.00	1.0	TRI	144.66	328	iPKPc	08	02.00	-1.9X
CTA	20.56	260	iPd	53	07.00	-0.5	MHC	85.90	49	ePKPc	01	07.70	0.6	ETA	144.70	354	ePKP	08	02.60	-1.2
	1.5s	111.11nm				5.0mb	SYP	85.93	52	eP	01	16.00	8.6X		0.8s	91.00nm				
			iS	57	05.00		PRI	86.10	50	ePKP	01	05.80	-2.3	SQTA	144.78	332	iPKPc	08	03.70	-0.6
PUZ	22.32	158	P	53	25.20	0.1	BCH	86.13	51	P	01	08.00	-0.3		0.8s	103.00nm				
WHH	22.48	162	P	53	28.20	1.4	ABL	86.63	52	P	01	11.20	0.3	WLF	144.79	339	PKPd	08	04.40	0.4
NOZ	22.73	159	P	53	28.10	-1.0			pP	01	20.40	29kmX		HVAR	144.85	323	iPKPc	08	03.40	-1.0
QLP	23.57	244	iPd	53	38.50	1.1	WDC	86.69	46	ePKPc	01	10.70	-0.1	GW	144.85	337	PKP	08	03.57	-0.7
MNG	23.84	165	P	53	40.10	0.2	ORV	86.96	47	ePKP	01	11.70	-0.4	DOU	144.92	341	iPKPd+08	08	04.30	0.0
	0.6s		41.00nm			5.1mb	CMB	87.10	49	ePKPc	01	12.70	-0.2	ECB	145.08	354	ePKP	08	03.70	-0.7
PGZ	24.04	164	P	53	41.60	-0.2	FRI	87.15	50	ePKPc	01	13.00	-0.1		1.0s	157.00nm				
	0.6s		83.00nm			5.4mb	MWC	87.26	53	eP	01	14.00	0.1	STR	145.12	337	PKP	08	05.09	0.5
CNB	24.08	219	eP	53	43.00	0.6	TOA	87.37	20	ePd	01	23.80	10.1X	VVI	145.13	329	PKP	08	04.00	-0.8
BWA	24.09	222	eP	53	42.80	0.4	ISA	87.52	51	eP	01	15.00	0.0	OGA	145.13	332	iPKPc	08	05.50	0.5
TCW	24.14	168	P	53	42.50	-0.3	SBB	87.62	53	eP	01	14.00	-1.5	ECP	145.23	354	ePKP	08	04.60	-0.1
CAW	24.21	167	P	53	43.70	0.2	RVR	87.69	53	eP	01	16.00	0.2		0.8s	269.00nm				
CMS	24.24	231	eP	53	44.70	0.8	BAR	87.73	55	eP	01	16.00	0.0	WLS	145.42	337	PKP	08	05.64	0.4
CAN	24.31	220	eP	53	47.50	3.0X	PLM	87.84	54	eP	01	17.00	0.3	CD	145.45	337	PKP	08	05.64	0.3
WEL	24.31	167	P	53	46.00	1.5	CLC	88.24	52	eP	01	19.00	0.6	CTI	145.45	330	PKP	08	05.30	-0.2
			eS	58	16.00		GSC	88.63	52	eP	01	20.00	-0.4	SLE	145.51	335	ePKPd	08	04.80	-0.6
THZ	24.44	171	P	53	46.50	0.7	TPC	88.75	54	eP	01	21.00	0.1	LCI	145.55					

02d 08h

BBS	146.14	336	PKP	08 07.57	1.1		1.0s	124.00nm			ADE	31.12	231	eP	14 46.00	0.0	
SAL	146.30	331	PKP	08 08.50	1.8	LMR	149.89	332	iPKPc	08 17.90	5.5X	WB5	31.71	261	eP	14 48.00	-3.2X
LOMF	146.50	336	PKP	08 08.89	1.8		1.0s	124.00nm				ASPA	32.24	253	iPd	14 53.10	-2.8
MDI	146.55	332	PKPc	08 08.00	0.9	FAI	150.02	316	PKP	08 20.00	7.2X		0.5s	24.10nm		5.4mb	
RSM	146.57	327	PKP	08 10.30	3.1X	RJF	150.13	340	iPKPc	08 18.70	5.9X			eS	20 08.20		
ARV	146.60	326	PKP	08 07.80	0.5		1.0s	88.00nm				MBL	45.25	257	eP	16 45.00	0.4
ORI	146.66	318	PKP	08 10.50	3.0X	CAF	150.29	339	iPKPc	08 19.20	6.1X		0.7s	17.00nm		5.1mb	
TMA	146.67	333	ePKPd	08 09.20	1.6		1.0s	43.00nm				NANU	49.14	255	eP	17 14.40	-0.6
ROI	146.86	317	PKP	08 11.00	3.1X	LFF	150.70	341	iPKPc	08 20.20	6.6X	HON	51.19	42	P	17 30.00	-0.6
SFI	146.88	327	PKP	08 08.30	0.6		0.9s	91.75nm				Z	20s	5.74um		5.6Msz	
VAI	146.90	333	PKP	08 09.00	1.4	LPO	150.79	340	iPKPc	08 20.30	6.5X	KAKJ	59.57	334	P	18 30.40	-0.6
CSI	146.93	318	PKP	08 11.80	3.8X		1.0s	96.00nm				CHJJ	59.93	333	P	18 33.00	-0.5
DUI	146.94	322	PKP	08 10.50	2.5X	EPF	152.54	340	iPKPc	08 24.20	7.7X	SBA	60.27	180	e(P)	18 35.00	-0.3
TDS	146.96	317	PKP	08 08.50	0.5		0.9s	36.05nm				MAT	60.69	333	eP	18 37.00	-1.7
PGD	146.98	327	PKP	08 11.00	2.9X	LKO	169.73	219	PKP	08 32.24	-2.7X		1.2s	46.88nm		5.5mb	
CRE	147.03	327	PKP	08 10.60	2.5X		S.D. = 1.0 on 146 of 236 obs.										
ASS	147.04	326	PKP	08 10.30	2.2X		OCT 02, 1990 08h 08m 26.37 ± 1.00s										
MMN	147.05	318	PKP	08 08.60	0.5		17.617 S ± 4.1km 167.799 E ± 4.5km										
MMK	147.10	334	ePKPd	08 10.80	2.5X		DEPTH = 19.8 ± 7.1 km										
SGO	147.10	320	PKP	08 09.40	1.3		5.3mb (19 obs.) 5.5Msz (21 obs.)										
MGR	147.19	319	PKP	08 08.00	-0.3		VANUATU ISLANDS (186)										
MME	147.27	329	PKPc	08 12.10	3.4X		CENTROID, MOMENT TENSOR (HRV)										
BSS	147.27	320	PKPc	08 10.90	2.5X		Data Used: GDSN										
SDI	147.29	323	PKP	08 10.90	2.4X		L.P.B.: 11S, 28C										
DIX	147.30	334	ePKPd	08 11.20	2.5X		Centroid Location:										
AZI	147.33	323	PKPc	08 11.50	3.1X		Origin Time 08:08:35.6 0.5										
CZI	147.33	317	PKP	08 09.30	0.8		Lat 17.37S 0.06 Lon 167.71E 0.03										
BDI	147.41	329	PKP	08 08.50	-0.2		Dep 15.0 FIX Half-duration 2.5										
ORX	147.42	333	PKP	08 10.98	2.3X		Moment Tensor: Scale 10**17 Nm										
BOB	147.44	331	PKP	08 11.80	3.1X		Mrr= 4.91 0.13 Mtt=-0.01 0.16										
EMS	147.51	335	ePKPd	08 12.00	3.1X		Mff=-4.90 0.20 Mrt= 1.57 0.38										
FLN	147.53	346	iPKPc	08 11.60	3.0X		Mrf=-6.16 0.50 Mtf= 0.48 0.13										
	1.0s	100.00nm					Principal Axes:										
LDF	147.60	345	iPKPc	08 11.70	3.0X		T Vol= 8.06 Plg=64 Azm= 70										
	1.0s	56.00nm					N -0.03 4 169										
LOR	147.63	339	iPKPc	08 12.20	3.3X		P -0.03 26 261										
	0.9s	76.80nm					Best Double Couple: Mo=8.1*10**17										
Z	20s	1.02um			5.6Msz		NP1:Strike= 1 Dip=19 Slip= 103										
PIL	147.70	328	PKP	08 11.30	2.3X		NP2: 168 71 86										
LBF	147.84	339	iPKPc	08 12.70	3.5X												
RMP	147.86	324	PKP	08 12.40	3.0X	BKM	0.43	97	iPd	08 35.60	0.5						
GRC	147.87	340	PKP	08 12.98	3.8X												
RDP	147.89	324	PKP	08 13.00	3.5X	PVC	0.50	104	iPd	08 36.50	0.1						
LSD	147.91	334	PKP	08 13.23	3.6X												
SSF	147.93	340	iPKPc	08 13.10	3.8X												
GRR	147.97	346	iPKPc	08 13.00	3.7X	DZM	4.61	196	iPc	09 33.00	-3.8X						
	1.0s	66.00nm															
SOI	148.00	315	PKP	08 13.40	3.8X	SGE	9.66	91	eP	10 51.50	4.0X						
PCP	148.03	331	PKP	08 12.52	2.9X	VUN	10.17	94	ePd	10 59.00	4.6X						
LPL	148.04	335	iPKPc	08 13.90	4.1X	HNR	11.15	316	eP	11 07.00	-0.9						
LPG	148.05	334	iPKPc	08 14.00	4.1X												
	0.8s	62.95nm				SVO	11.45	316	eP	11 14.00	2.1						
RSP	148.12	334	PKP	08 12.11	2.3X	BRS	16.94	232	iPd	12 26.00	2.1						
SMF	148.18	339	iPKPc	08 13.40	3.7X												
	1.1s	73.25nm				COO	19.39	225	iPc	12 53.00	-0.4						
AVF	148.22	340	iPKPc	08 13.40	3.6X	RMQ	19.72	240	iP	12 56.00	-1.0						
	1.0s	42.00nm				RAB	20.31	309	e(P)	13 00.00	3.9X						
CKI	148.24	332	PKP	08 11.90	2.0	CTA	20.54	260	iPd-	13 05.00	-0.6						
LPF	148.34	346	iPKPc	08 14.00	4.1X		1.2s	109.38nm			5.1mb						
	1.1s	146.50nm															
BHB	148.36	333	PKP	08 11.90	1.8	PMG	21.65	289	eP	13 15.00	-2.8						
FIN	148.44	331	PKP	08 13.13	2.9X	PUZ	22.35	158	P	13 24.00	0.2						
BNI	148.44	334	PKPc	08 14.60	4.2X	NOZ	22.76	159	P	13 29.00	0.5						
RRL	148.50	334	PKP	08 14.77	4.2X	QLP	23.55	244	eP	13 36.90	0.4						
ROB	148.52	332	PKP	08 13.54	3.1X	MNG	23.86	165	P	13 38.50	-0.8						
BGF	148.59	340	iPKPc	08 14.70	4.3X		0.5s	22.00nm			5.0mb						
DOI	148.64	333	PKP	08 12.50	1.9	KIW	23.96	167	P	13 41.70	1.4						
PZZ	148.70	333	PKP	08 13.34	2.5X	PGZ	24.06	164	P	13 40.90	-0.3						
ENR	148.78	332	PKP	08 13.03	2.1		0.6s	65.00nm			5.4mb						
STV	148.81	332	PKP	08 13.34	2.4X	CNB	24.07	219	iPc	13 43.00	2.3						
IMI	148.81	331	PKP	08 14.57	3.6X	BWA	24.08	222	eP	13 41.10	-0.5						
PLDF	148.84	338	PKP	08 15.46	4.5X	TCW	24.17	168	P	13 42.50	0.3						
AGO	148.94	339	PKP	08 15.50	4.5X	CMS	24.23	231	eP	13 43.00	0.0						
MAF	148.98	340	iPKPc	08 15.80	4.8X	MRW	24.27	167	P	13 43.10	-0.2						
	1.2s	89.25nm				CAN	24.30	220	eP	13 45.30	1.6						
TCF	149.04	340	iPKPc	08 16.00	4.9X	WEL	24.34	167	P	13 43.00	-0.9						
SBF	149.06	332	iPKPc	08 15.80	4.5X												
	1.0s	136.00nm				WDW	24.37	167	P	13 44.00	-0.2						
PYM	149.25	339	PKP	08 16.62	5.1X	MTW	24.38	166	P	13 43.30	-1.0						
LSF	149.28	341	iPKPc	08 16.20	4.7X	THZ	24.46	171	P	13 47.30	2.1						
PGF	149.31	328	iPKPc	08 16.60	4.8X	BLW	24.57	166	P	13 44.70	-1.5						
MFF	149.45	344	iPKPc	08 16.70	5.0X	MOW	24.57	166	P	13 45.00	-1.2						
	1.0s	116.00nm				LTZ	25.37	172	P	13 52.40	-1.5						
LBL	149.61	338	PKP	08 17.68	5.7X	OIS	26.79	259	eP	14 06.40	-0.8						
FRF	149.65	332	iPKPc	08 17.30	5.2X	STK	27.62	234	iPd	14 14.00	-0.7						
	1.0s	108.00nm					1.3s	21.00nm			4.7mb						

	1.2s	22.27nm		5.1mb			e	28	10.00		CSI	146.89	318	PKP	28	08.00	0.7		
CHTO	76.74	295 eP	20	20.50	2.0		e	30	59.00		DUI	146.91	322	PKP	28	08.00	0.7		
	1.0s	15.50nm		5.0mb			e	31	04.00		TDS	146.93	317	PKP	28	10.00	2.7X		
HHC	78.11	320 Pc	20	25.50	-0.3	SOB1	141.09	131 ePKP	27	52.00 -6.1X	PGD	146.95	327	PKP	28	09.50	2.0X		
	5.0s	300.00nm		5.6mb X			e	28	07.30		CRE	147.00	322	PKP	28	09.50	2.0X		
Z	22s	1.40um		5.2Msz		PRU	141.21	332 ePKP	27	53.00 -4.3X	ASS	147.01	326	PKP	28	08.50	1.1		
N	15s	0.30um				Z	20s	1.40um		5.7Msz	SGO	147.07	320	PKP	28	09.00	1.5		
E	15s	0.50um				N	20s	0.90um			MMK	147.07	334 ePKPc		28	09.50	1.8X		
HHC	78.11	320 eP	20	27.30	1.5	E	20s	0.50um			AQU	147.08	324	PKP	28	10.00	2.4X		
CD2	78.17	308 eP	20	27.00	0.7	ZST	141.26	328 ePKP	27	57.90 0.5	MGR	147.16	319	PKP	28	07.00	-0.7		
Z	21s	2.01um		5.4Msz			e	31	20.00		BSS	147.24	320	PKP	28	09.00	1.2		
		sP	20	39.89			e	36	47.00		MME	147.24	329	PKP	28	10.30	2.3X		
		eS	30	21.80		MOX	141.95	335 ePKP	27	54.00 -4.6X	SDI	147.26	323	PKP	28	09.70	1.8X		
BTO	78.92	319 P	20	30.50	0.2	Z	26s	0.70um		5.3MszX	DIX	147.28	334 ePKPc		28	10.10	2.1X		
N	17s	0.80um				N	20s	0.60um			AZI	147.30	323	PKP	28	10.00	2.2X		
E	17s	0.80um				KHC	142.27	332 PKP	27	56.00 -3.3X	CZJ	147.30	317	PKP	28	08.60	0.7		
		esP	20	43.00		Z	19s	0.80um		5.5Msz	BDI	147.38	329	PKP	28	09.50	1.5		
		S	30	30.00		N	19s	0.80um			ORX	147.40	333	PKP	28	08.43	0.4		
MAW	79.41	202 eP	20	33.00	0.6	E	19s	0.50um			BOB	147.41	331	PKP	28	11.00	3.0X		
LZH	80.63	312 Pd	20	40.50	0.9	SKO	142.42	317 iPKP	27	55.50 -4.2X	MNS	147.46	325	PKP	28	09.50	1.4		
	2.0s	90.00nm		5.4mb		Z	19s	1.02um		5.6Msz	EMS	147.48	335 ePKPc		28	10.60	2.3X		
Z	22s	1.44um		5.3Msz		N	19s	0.90um			FLN	147.50	346 ePKP		28	09.80	1.9		
N	18s	1.29um				E	18s	0.79um				1.0s	40.00nm						
		pP	20	47.50	22kmX		i	28	06.00		LDF	147.57	345 ePKP		28	09.90	1.8X		
		PP	23	43.50			i	31	07.00			1.2s	56.55nm						
		S	30	48.00		WET	142.57	333 ePKP	27	56.40 -3.3X	LOR	147.61	339 ePKP		28	10.30	2.1X		
		SS	36	02.00		GRF	142.85	335 ePKPd	27	56.60 -3.6X	PJI	1.1s	65.95nm						
GTA	85.02	314 P	21	03.60	1.5	Z	21s	1.00um		5.6Msz	LBF	147.67	328	PKPd	28	09.70	1.4		
	1.4s	40.00nm		5.5mb		DBN	142.96	342 ePKP	28	06.00 5.8X	RMP	147.82	339 ePKP		28	11.00	2.4X		
Z	24s	2.10um		5.4MszX		OHR	143.26	317 ePKP	27	58.50 -2.7X	GRC	147.83	324	PKP	28	12.00	3.3X		
E	17s	0.90um				ENN	143.90	340 ePKP	28	00.00 -1.9	RDP	147.84	340	PKP	28	11.29	2.8X		
		sP	21	14.00			1.0s	20.00nm			LSD	147.85	324	PKP	28	10.90	2.1X		
TTA	85.14	16 P	21	01.80	-0.3	VBY	144.00	327 e(PKP)	28	02.50 0.3	SSF	147.88	334	PKP	28	11.10	2.1X		
	1.1s	25.94nm		5.4mb		MEM	144.01	340	PKP	28	01.00 -1.0	GRR	147.91	340 ePKP	28	11.40	2.7X		
		pP	21	11.20	30kmX	LJU	144.01	328 ePKPd	28	00.50 -1.8		147.94	346 ePKP	28	11.40	2.8X			
PMR	86.04	19 P	21	10.00	3.5X	CEY	144.27	327 ePKP	28	00.10 -2.6X		1.0s	50.00nm						
Z	18s	2.67um		5.7Msz		VOY	144.34	328 ePKPd	28	00.20 -2.7X	SOI	147.96	315	PKP	28	10.60	1.6		
ABL	86.65	52 P	21	10.30	-0.1	UCC	144.35	342	PKP	28	01.00 -1.6	PCP	148.00	331	PKP	28	11.30	2.3X	
CMB	87.11	49 P	21	11.60	-0.7	FVI	144.49	330	PKP	27	58.90 -4.1X	LPL	148.01	334 ePKP	28	11.20	2.0X		
	1.1s	19.61nm		5.3mb		WATA	144.50	332 ePKP	28	00.00 -3.2X		1.0s	42.00nm						
		pP	21	21.70	32kmX		2.0s	179.00nm			LPG	148.02	334 ePKP	28	12.30	3.0X			
MWC	87.28	53 eP	21	16.00	2.6	RIY	144.56	327 ePKP	28	00.90 -2.3X		1.0s	52.00nm						
ISA	87.54	51 eP	21	14.00	-0.4	SNF	144.63	342	PKP	28	03.20 0.1	RSP	148.09	334	PKP	28	12.74	3.6X	
SBB	87.64	53 eP	21	12.00	-2.9X	TRI	144.63	328 iPKPc	28	02.00 -1.3	SMF	148.16	339 ePKP	28	11.80	2.7X			
RVR	87.71	53 eP	21	15.00	-0.2	ETA	144.68	354 iPKPd	28	06.20 3.1X		1.3s	90.25nm						
BAR	87.75	55 eP	21	14.00	-1.4		1.1s	116.00nm			AVF	148.20	340 ePKP	28	11.70	2.6X			
PLM	87.86	54 eP	21	17.00	0.8	SQTA	144.75	332 iPKPd	28	02.40 -1.2		1.0s	37.00nm						
CLC	88.25	52 eP	21	18.00	0.2		0.6s	29.70nm			CKI	148.21	332	PKPd	28	11.60	2.4X		
GSC	88.65	52 eP	21	19.00	-0.8		i	28	09.00		LPF	148.32	346 ePKP	28	12.35	3.1X			
GLA	89.32	55 eP	21	23.00	0.0		i	28	11.90			1.2s	121.40nm						
TNP	89.41	50 P	21	22.30	-1.2	GWf	144.83	337	PKP	28	02.38 -1.2	BHB	148.33	333	PKP	28	11.20	1.8	
	1.9s	36.81nm		5.3mb		DOU	144.90	341 iPKP+	28	02.80 -0.8	FIN	148.41	331	PKP	28	11.20	1.6		
GBA	94.37	283 P	21	45.00	-1.5	ECB	145.06	354 iPKPd	28	03.60 -0.2	BNI	148.41	334	PKP	28	13.00	3.3X		
WMO	95.10	314 P	21	49.50	0.1	STR	145.10	337	PKP	28	03.60 -0.4	RRL	148.47	334	PKP	28	12.43	2.5X	
	2.5s	60.00nm		5.6mb		VVI	145.10	329	PKP	28	03.50 -0.6	ROB	148.50	332	PKP	28	10.99	1.2	
Z	24s	1.30um		5.3MszX		OGA	145.10	332 ePKP	28	03.50 -0.9	BGF	148.57	340 ePKP	28	13.10	3.4X			
N	19s	1.60um				ECP	145.21	354 iPKPd	28	03.00 -1.0		0.8s	28.90nm						
		pP	21	59.50	31kmX		0.6s	88.00nm			DOI	148.61	333	PKP	28	12.00	2.0X		
		PP	25	37.50		WLS	145.39	337	PKP	28	03.98 -0.6	PZZ	148.67	333	PKP	28	12.84	2.7X	
		SKS	32	25.00		CTI	145.42	330	PKP	28	04.00 -0.8	ENR	148.75	332	PKP	28	12.12	1.9	
		S	33	03.00		CDF	145.42	337	PKP	28	04.05 -0.7	STV	148.78	332	PKP	28	12.02	1.8	
		sS	33	16.00		SLE	145.48	335 ePKPc	28	04.00 -0.7	IMI	148.79	331	PKP	28	12.63	2.4X		
		SS	39	29.00		LCI	145.52	317	PKP	28	06.00 1.0	PLDF	148.82	338	PKP	28	13.58	3.3X	
ALO	96.51	56 eP	22	00.00	3.8X	SAX	145.54	334 ePKPc	28	05.00 -0.2	AGO	148.91	339	PKP	28	13.81	3.5X		
Z	20s	1.51um		5.5Msz		FEL	145.58	336 ePKP	28	03.84 -1.2	MAF	148.95	340 ePKP	28	14.20	3.8X			
GOL	98.67	51 P	22	12.00	6.1X	CAI	145.62	132 ePKP	28	03.40 -2.5X		1.2s	44.65nm						
Z	20s	3.00um		5.8Msz		ECH	145.63	337	PKP	28	04.43 -0.6	TCF	149.01	340 ePKP	28	14.20	3.7X		
GLD	98.79	51 P	22	12.00	5.6X	OSS	145.63	332 ePKPc	28	05.20 0.0		1.2s	66.95nm						
Z	20s	3.70um		5.9Msz		ZLA	145.75	335 ePKPc	28	04.80 -0.4	SBF	149.03	332 ePKP	28	13.90	3.3X			
KEV	122.63	345 ePKP	27	20.00	-1.5	MOF	145.94	337	PKP	28	06.49 0.9		1.2s	80.35nm					
PPD	125.06	134 ePKP	27	24.10	-3.6X	LLS	145.99	334 ePKPc	28	06.10 0.2	PYM	149.22	339	PKP	28	15.03	4.1X		
TAB	125.29	304 ePKP	27	28.00	0.1	VITF	146.06	338	PKP	28	06.04 0.4	LSF	149.26	341 ePKP	28	14.60	3.8X		
SUF	127.71	339 iPKP	27	30.70	-0.8	VDL	146.08	333 ePKPc	28	06.50 0.5		1.3s	93.85nm						
	0.4s	3.50nm				BSF	146.09	337	PKP	28	06.42 0.6	PGF	149.28	328 ePKP	28	15.00	3.9X		
NUR	129.72	337 ePKP	27	35.00	-0.4	HAU	146.11	337 ePKP	28	06.40 0.6		1.1s	107.45nm						
APO	133.22	343 ePKP	27	31.80	-10.3X		1.2s	9.25nm			MFF	149.42	344 ePKP	28	15.00	4.0X			
	0.4s	1.60nm				BBS	146.11	336	PKP	28	07.02 1.2		1.2s	77.35nm					
NB2	133.53	345	PKP	27	42.20	-0.5	SAL	146.28	331	PKP	28	08.00 1.9	LBL	149.59	338	PKP	28	16.18	4.9X
	0.9s	4.90nm				LOMF	146.47	336	PKP	28	07.02 0.5	FRF	149.62	332 ePKP	28	15.50	4.1X		
BBTK	135.36	309 ePKP	27	54.00	7.0X	MDI	146.52	332	PKP	28	07.50 1.1		1.2s	74.40nm					
BUC	138.26	318 ePKP	27	50.00	-2.1	ARV	146.57	326	PKP	28	07.50 0.8	LRG	149.83	333 ePKP	28	16.30	4.6X		
KRA	138.63	329 ePKP	27	51.90	-0.7	ORI	146.63	318	PKP	28	10.00 3.1X		1.2s	95.20nm					
KSP	139.82	332 ePKP	27	53.50	-1.3	TMA	146.64	333 ePKPc	28	07.30 0.4	LMR	149.86	332 ePKP	28	16.20	4.4X			
		e	30	55.00		ROI	146.82	317	PKP	28	09.50 2.3X		1.2s	89.25nm					
BRG	140.82	334 iPKP	27	57.00	0.5	SFI	146.85	327	PKP	28	07.90 0.9	FAI	149.98	316	PKP	28			

CAF	1.2s	65.45nm	150.26	339 ePKP	28	17.50	5.1X	BW06	0.9s	6.61nm	96.51	47 eP	11	12.00	-3.8X	LPG	147.99	334 iPKPc	17	32.60	3.7X
LFF	1.2s	35.70nm	150.68	341 ePKP	28	18.40	5.4X	KEV	1.2s	5.48nm	122.60	345 iPKP	16	41.00	0.0	RSP	0.8s	26.85nm			
LPO	1.0s	44.00nm	150.77	340 ePKP	28	18.60	5.5X	SOD	1.2s	5.48nm	124.36	343 ePKP	16	44.00	-0.6	SMF	148.06	334 PKP	17	30.60	1.9X
EPF	1.2s	71.40nm	152.52	340 ePKP	28	22.40	6.6X	SUF	0.5s	3.80nm	127.68	339 iPKP	16	50.50	-0.6	AVF	148.13	339 ePKP	17	32.10	3.4X
TOL	1.2s	29.75nm	156.72	344 ePKP	28	21.00	-0.6	NUR	0.7s	13.30nm	129.69	337 iPKP	16	55.40	0.4	LPF	0.9s	16.40nm			
S.D. = 1.1 on 147 of 233 obs.								NB2	0.8s	3.20nm	133.50	345 PKP	17	02.40	0.1	BMB	148.17	340 ePKP	17	32.00	3.3X
? OCT 02, 1990 08h 18m 17.38±0.73s								KSP	0.8s	3.20nm	139.79	332 ePKP	17	16.50	2.2X	FIN	0.8s	6.70nm			
15.773 N ±14.9km 119.215 E ±21.2km								PRU	0.8s	3.20nm	141.19	332 ePKP	17	19.50	2.6X	BNI	148.29	346 iPKPc	17	32.50	3.7X
DEPTH = 33.0km (normal)								KHC	0.8s	3.20nm	142.24	332 ePKP	17	15.50	-3.3X	BH8	148.30	333 PKP	17	31.01	2.0X
4.4mb (7 obs.)								OHR	0.8s	3.20nm	143.24	317 ePKP	17	17.80	-3.0X	FIN	148.38	331 PKP	17	31.73	2.6X
LUZON, PHILIPPINE ISLANDS (249)								MEM	0.8s	3.20nm	143.98	340 PKP	17	20.30	-1.3	BNI	148.38	334 PKP	17	33.30	4.0X
CHTO	1.2s	11.46nm	19.59	282 eP	22	46.90	1.0	LJU	0.8s	3.20nm	143.98	328 ePKPc	17	19.60	-2.2	RRL	148.44	334 PKP	17	33.37	3.8X
BJI	1.3s	29.00nm	24.32	354 eP	23	34.50	1.4	CEY	0.8s	3.20nm	144.24	328 ePKPc	17	20.50	-1.8	ROB	148.47	332 PKP	17	31.93	2.6X
WB5	0.8s	6.60nm	38.43	157 eP	25	37.00	-0.9	VOY	0.8s	3.20nm	144.31	328 iPKPd	17	20.40	-2.1	BGF	148.54	340 iPKPc	17	33.10	3.8X
ASPA	0.8s	6.60nm	41.74	160 eP	26	06.50	1.3	FVI	0.8s	3.20nm	144.46	330 PKP	17	20.50	-2.1		0.8s	30.90nm			
KEV	0.8s	6.60nm	76.09	339 eP	29	52.00	-11.2X	WATA	0.7s	7.70nm	144.47	332 iPKPd	17	21.60	-1.2	PZZ	148.64	333 PKP	17	31.93	2.2X
SOD	0.8s	6.60nm	76.57	337 iP	30	03.60	-2.3	TRI	0.8s	7.70nm	144.60	328 ePKP	17	21.40	-1.4	ENR	148.72	332 PKP	17	30.90	1.1
SUF	0.5s	2.50nm	77.52	332 iP	30	11.00	-0.2	SOTA	0.8s	32.00nm	144.72	332 iPKP	17	22.40	-0.8	STV	148.75	332 PKP	17	31.52	1.7
NUR	0.5s	2.50nm	78.65	330 eP	30	12.00	-5.4X	GWF	0.8s	32.00nm	144.80	337 PKP	17	22.80	-0.4	IMI	148.76	331 PKP	17	32.96	3.1X
INK	1.0s	5.00nm	81.69	21 eP	30	34.00	0.5	DOU	0.8s	32.00nm	144.87	341 PKP	17	22.60	-0.6	AGO	148.88	339 PKP	17	34.32	4.4X
MBC	1.0s	5.00nm	81.83	12 eP	30	35.00	0.9	ECP	0.8s	32.00nm	145.18	354 ePKP	17	23.00	-0.6	MAF	148.92	340 ePKP	17	34.50	4.5X
HFS	0.4s	1.00nm	83.98	331 eP	30	44.70	-0.7	WLS	0.8s	32.00nm	145.36	337 PKP	17	24.23	0.1X	TCF	0.8s	12.75nm			
NB2	0.8s	1.90nm	84.77	332 P	30	48.40	-1.0	CTI	0.8s	32.00nm	145.39	330 PKP	17	22.00	-2.4	SBF	1.2s	26.80nm			
S.D. = 1.4 on 10 of 12 obs.								CDF	0.8s	32.00nm	145.39	337 PKP	17	24.44	0.2		1.0s	24.00nm			
? OCT 02, 1990 08h 48m 36.93±1.02s								SLE	0.8s	32.00nm	145.45	335 ePKPc	17	24.20	-0.1	PYM	1.0s	32.00nm			
44.355 N ±11.6km 7.255 E ±12.0km								SAX	0.8s	32.00nm	145.51	334 ePKPc	17	25.00	0.2	LSF	149.26	328 iPKPc	17	35.30	4.6X
DEPTH = 10.0km (geophysicist)								FEL	0.8s	32.00nm	145.55	336 ePKP	17	24.50	-0.1	MFF	0.8s	64.50nm			
NORTHERN ITALY (545)								ECH	0.8s	32.00nm	145.60	337 PKP	17	24.70	0.1		0.8s	25.50nm			
ML 1.4 (GEN).								OSS	0.8s	32.00nm	145.60	332 ePKPc	17	25.40	0.6	LBL	149.39	344 iPKPc	17	35.30	4.7X
STV	0.12	156 P	48	40.12	0.1			ZLA	0.8s	32.00nm	145.72	335 ePKPc	17	25.20	0.4	FRF	0.8s	26.85nm			
ENR	0.17	137 P	48	40.84	-0.1			MOF	0.8s	32.00nm	145.91	337 PKP	17	25.61	0.4	LRG	0.9s	37.65nm			
PZZ	0.19	324 P	48	41.15	0.0			LLS	0.8s	32.00nm	145.96	334 ePKPc	17	26.20	0.8	LMR	149.80	333 iPKPc	17	36.50	5.2X
ROB	0.45	98 P	48	46.07	0.0			VITF	0.8s	32.00nm	146.03	338 PKP	17	26.09	0.9		1.0s	42.00nm			
S.D. = 0.1 on 4 of 4 obs.								VDL	0.8s	32.00nm	146.05	333 ePKPc	17	26.90	1.3	RJF	1.0s	24.00nm			
* OCT 02, 1990 08h 57m 46.95±1.65s								BSF	0.8s	32.00nm	146.06	337 PKP	17	25.98	0.5	CAF	1.2s	20.85nm			
17.588 S ±13.4km 167.792 E ±12.0km								HAU	0.6s	18.05nm	146.08	337 iPKPc	17	26.50	1.1	LFF	1.2s	20.85nm			
DEPTH = 26.1 ± 12.6 km								LOMF	0.8s	32.00nm	146.44	336 PKP	17	26.83	0.8	LPO	0.8s	26.85nm			
4.8mb (6 obs.)								ARV	0.8s	32.00nm	146.54	326 PKP	17	28.50	2.3X	EPF	0.8s	26.85nm			
VANUATU ISLANDS (186)								ORI	0.8s	32.00nm	146.61	318 PKP	17	29.00	2.6X		1.2s	20.85nm			
BKM	0.44	101 iPd	57	56.50	0.3			TMA	0.8s	32.00nm	146.61	333 ePKPc	17	28.10	1.6	S.D. = 1.2 on 53 of 119 obs.					
PVC	0.52	107 iPd	57	57.50	0.0			SFI	0.8s	32.00nm	146.82	327 PKPd	17	30.00	3.4X	% OCT 02, 1990 09h 59m 07.65±0.89s					
DZM	4.64	196 iPc	58	55.30	-1.9			VAI	0.8s	32.00nm	146.84	333 PKP	17	27.70	1.2	39.101 N ± 7.3km 27.643 E ± 9.0km					
RMQ	19.73	240 iP	02	17.60	-0.2			DUI	0.8s	32.00nm	146.89	322 PKP	17	29.00	2.1X	DEPTH = 10.0km (geophysicist)					
BWA	24.10	222 eP	03	02.70	1.2			TDS	0.8s	32.00nm	146.90	318 PKP	17	29.00	2.1X	TURKEY (366)					
CMS	24.24	231 eP	03	05.00	2.1			PGD	0.8s	32.00nm	146.92	327 PKP	17	29.00	2.0X	MD 2.5 (ISK).					
CAN	24.32	220 eP	03	07.50	3.9X			CRE	0.8s	32.00nm	146.98	327 PKP	17	29.60	2.6X	Izm	0.76	203 ePg	59	22.50	-0.1
STK	27.63	234 iPc	03	35.10	0.6			ASS	0.8s	32.00nm	146.98	326 PKP	17	28.50	1.5	DST	0.91	56 iPn	59	25.30	0.1
WB5	31.71	261 eP	04	09.70	-1.3			SGO	0.8s	32.00nm	147.04	320 PKP	17	29.00	2.0X	EZN	1.25	306 ePn	59	31.00	0.1
ASPA	32.24	253 eP	04	14.20	-1.4			MMK	0.8s	32.00nm	147.04	334 ePKPc	17	29.90	2.7X	BNT	1.27	10 ePn	59	31.40	0.1
MAT	60.66	333 eP	07	56.00	-2.2			MGR	0.8s	32.00nm	147.13	319 PKP	17	29.00	1.8X	KGT	1.37	349 iPn	59	32.40	-0.4
SPA	72.52	180 iPc	09	13.40	0.0			MME	0.8s	32.00nm	147.21	329 PKP	17	30.30	2.7X	S.D. = 0.3 on 5 of 5 obs.					
BJI	74.80	321 eP	09	26.50	-0.2			BSS	0.8s	32.00nm	147.21	320 PKP	17	28.00	0.7	% OCT 02, 1990 10h 35m 52.49±0.85s					
KMI	76.24	302 eP	09	37.00	1.4			SDI	0.8s	32.00nm	147.23	323 PKP	17	29.40	2.0X	44.355 N ± 8.9km 7.294 E ± 8.4km					
CHG	76.72	295 eP	09	39.00	0.9			DIX	0.8s	32.00nm	147.25	334 ePKPc	17	30.40	2.8X	DEPTH = 10.0km (geophysicist)					
CHTO	76.72	295 eP	09	39.70	1.6			AZI	0.8s	32.00nm	147.27	323 PKP	17	29.50	2.1X	NORTHERN ITALY (545)					
								BDI	0.8s	32.00nm	147.35	329 PKPd	17	29.30	1.7	ML 1.6 (GEN).					
								ORX	0.8s	32.00nm	147.37	333 PKP	17	29.37	1.8X	STV	0.11	169 P	35	55.65	0.2
								BOB	0.8s	32.00nm	147.38	331 PKP	17	30.00	2.4X	ENR	0.16	145 P	35	56.58	0.4
								MNS	0.8s	32.00nm	147.43	325 PKPd	17	30.10	2.4X	PZZ	0.20	317 P	35	56.99	0.0
								FLN	0.8s	32.00nm	147.47	346 iPKPc	17	30.10	2.6X	ROB	0.42	98 P	36	00.99	-0.1
								LDF	0.8s	32.00nm	147.54	345 iPKPc	17	30.20	2.6X	IMI	0.62	136 P	36	04.17	-0.8
								LOR	0.8s	32.00nm	147.58	339 iPKPc	17	30.60	2.8X	FIN	0.67	102 P	36	06.22	0.3
								LBF	0.9s	13.10nm	147.79	339 ePKP	17	31.20	3.1X	S.D. = 0.6 on 6 of 6 obs.					
								GRC	0.8s	32.00nm	147.81	340 PKP	17	31.70	3.6X	% OCT 02, 1990 10h 58m 10.00s					
								RDP	0.8s	32.00nm	147.83	324 PKP	17	31.50	3.1X						
								LSD	0.8s	32.00nm	147.86	334 PKP	17	32.03	3.4X						
	</																				

02d 10h

45.648 N 111.962 W
 DEPTH = 6.8km
 MONTANA (456)
 <BUT>. ML 3.0 (BUT).

LRM 0.38 297 iPd 58 17.90 0.1
 BGMT 0.42 188 iPc 58 18.30 -0.2
 HBMT 0.48 288 iPd 58 19.60 0.0
 BUT 0.56 311 iPd 58 21.10 -0.1
 IS 58 28.70
 MEMT 0.70 93 iPc 58 23.30 -0.7
 SXM 0.73 46 iPc 58 24.10 -0.5
 MCMT 1.03 218 iPc 58 29.60 -0.4
 HRY 1.07 5 eP 58 30.40 -0.1
 LTMT 1.13 185 eP 58 31.40 -0.2
 HPI 2.10 203 eP 58 47.90 1.6
 10 obs. associated

? OCT 02, 1990 11h 03m 27.34 ± 2.26s
 41.083 N ± 19.9km 29.353 E ± 13.5km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.0 (ISK).

ISK 0.22 266 iPg 03 31.90 -0.2
 ISg 03 34.70
 HRT 0.35 138 iPg 03 34.60 -0.1
 ISg 03 39.90
 YLV 0.52 178 ePg 03 37.90 0.1
 CTT 0.70 276 ePg 03 41.40 0.2
 S.D. = 0.3 an 4 af 4 obs.

% OCT 02, 1990 11h 25m 15.44 ± 0.98s
 37.969 N ± 8.3km 6.344 W ± 9.4km
 DEPTH = 10.0km (geophysicist)
 SPAIN (377)
 mbLg 2.6 (MDD).

EVAL 0.50 220 iP 25 25.00 -0.6
 eS 25 32.00
 EHOR 0.88 99 eP 25 31.60 -0.7
 eS 25 44.50
 EPRU 1.34 138 eP 25 41.30 1.2
 eS 25 59.00
 EBAN 2.03 84 eP 25 50.00 -0.1
 eS 26 14.80
 EPLA 2.10 6 eP 25 52.50 1.3
 GUD 3.16 32 eP 26 05.20 -1.2
 S.D. = 1.3 an 6 af 6 obs.

OCT 02, 1990 12h 38m 58.90 ± 1.04s
 32.530 N ± 5.0km 94.027 E ± 3.8km
 DEPTH = 32.5 ± 8.2 km
 5.0mb (42 obs.) 4.0Msz (2 obs.)

TIBET (306)
 ML 4.2 (BJI).

LSA 3.75 222 Pn 39 58.50 2.2
 Pg 40 02.00
 Sn 40 45.40
 Sg 40 51.20
 GTA 8.31 33 P 40 59.10 -1.2
 1.2s 400.00nm 6.4mb X
 Z 10s 2.90um
 E 11s 2.30um

GUN 8.42 239 P 40 58.00 -4.0X
 CD2 8.45 98 eP 41 04.40 2.3
 1.0s 70.00nm 5.8mb
 LZH 8.86 64 Pd 41 07.50 -0.5
 2.0s 40.00nm 5.2mb
 Z 10s 3.10um 4.2Msz

KKN 8.92 240 P 41 04.00 -4.8X
 PKI 8.95 239 P 41 04.60 -4.8X
 DMN 9.15 240 P 41 07.20 -4.8X
 GKN 9.29 243 P 41 08.60 -5.2X
 KMI 10.62 132 eP 41 31.00 -1.2
 1.5s 70.00nm 5.7mb
 Z 10s 3.70um

WMO 12.32 338 eP 41 50.00 -5.0X
 N 11s 0.80um
 E 11s 1.40um

XAN 12.56 79 P 41 57.40 -0.8
 N 10s 0.50um
 E 10s 1.30um

CHG 14.36 161 eP 42 23.10 1.2
 CHTO 14.36 161 eP 42 20.60 -1.3

NDI 14.97 260 eP 42 17.00 -12.9X
 BTO 15.15 53 eP 42 33.00 0.7
 N 11s 1.10um
 E 13s 1.20um

TIY 15.92 66 eP 42 46.50
 Z 20s 1.20um
 KSH 16.15 300 P 42 42.50 -2.6
 HHC 16.31 54 P 42 49.00 1.7

Z 13s 2.50um
 N 10s 0.40um
 E 10s 1.60um

LOE 16.59 153 eP 42 50.00 -0.7
 WHN 17.44 91 eP 43 00.00 -1.3
 NST 17.68 160 eP 43 05.00 0.7
 BJI 19.33 61 eP 43 24.50 0.1

1.3s 70.00nm 4.8mb
 Z 11s 0.99um
 N 11s 1.15um

TIA 19.41 73 P 43 25.00 -0.3
 N 12s 0.91um
 E 11s 0.63um

QIZ 19.55 130 eP 43 28.00 1.0
 N 10s 0.90um
 NNT 20.53 164 eP 43 35.00 -2.2
 HYB 20.53 227 ePd 43 37.00 -0.3

1.0s 50.00nm 4.8mb
 NJ2 20.99 85 Pc 43 42.00 0.2
 1.2s 100.00nm 5.1mb
 POO 22.87 237 eP 43 59.00 -1.8
 SSE 23.11 86 Pc 44 04.00 1.1

1.0s 20.00nm 4.6mb
 Z 12s 0.90um 4.4MszX
 sS 48 20.00
 QUE 23.22 271 eP 44 04.20 -0.1
 1.3s 47.12nm 4.8mb

e 48 15.00
 GBA 24.18 223 P 44 15.00 1.5
 SNY 25.21 60 Pc 44 23.40 0.3
 1.2s 100.00nm 5.3mb

Z 16s 0.80um 4.3MszX
 N 13s 0.90um
 CN2 26.99 56 Pd 44 38.00 -0.8
 1.0s 30.00nm 4.9mb

Z 15s 1.30um 4.6MszX
 N 15s 1.80um
 E 15s 0.40um

pP 44 48.00 32kmX
 SUF 51.57 327 eP 48 02.00 -1.7
 SOD 51.75 333 iP 48 03.40 -1.6
 NUR 52.24 324 iP 48 09.00 1.0

0.6s 14.30nm 5.1mb
 VRI 52.37 306 eP 48 10.00 0.0
 MLR 52.97 305 ePc 48 15.00 0.3
 UPP 55.79 324 iP 48 32.00 -2.0
 i 48 35.20

SPC 56.04 311 iP 48 36.00 -0.2
 HFS 57.70 324 eP 48 45.70 -2.8
 0.6s 15.80nm 5.2mb
 Z 16s 0.12um 4.1MszX

LR 12 14.00
 NB2 58.74 326 P 48 53.20 -2.6
 0.7s 14.80nm 5.2mb
 BRG 59.59 314 iP 49 02.10 0.4
 1.0s 16.00nm 5.1mb

CLL 60.04 314 iPd 49 04.00 -0.8
 MOX 61.07 314 e(P) 49 12.00 0.2
 CDF 64.47 313 eP 49 34.00 0.2
 0.8s 8.05nm 4.9mb

WB5 64.84 138 eP 49 35.20 -2.0
 BSF 64.98 312 eP 49 38.00 0.1
 0.9s 9.85nm 4.9mb
 PGF 65.50 306 eP 49 41.30 0.0
 0.9s 8.20nm 4.8mb

LPG 65.88 310 eP 49 44.60 0.7
 0.8s 36.80nm 5.5mb
 LPL 65.88 310 eP 49 44.70 0.8
 0.6s 18.05nm 5.3mb

SBF 66.05 308 eP 49 45.10 0.3
 0.8s 21.50nm 5.3mb
 FRF 66.70 308 eP 49 48.70 -0.1
 0.8s 5.35nm 4.7mb

LMR 66.88 308 eP 49 50.20 0.2
 1.0s 10.00nm 4.9mb
 LRG 66.93 308 eP 49 50.80 0.5

0.8s 13.45nm 5.1mb
 LOR 67.03 312 eP 49 50.60 -0.3
 0.8s 4.70nm 4.6mb
 Z 20s 0.13um 4.1Msz

LBF 67.07 312 eP 49 51.00 -0.2
 0.8s 5.35nm 4.7mb
 SMF 67.29 312 eP 49 52.70 0.1
 1.0s 14.00nm 5.0mb

SSF 67.34 312 eP 49 52.90 0.1
 0.8s 10.75nm 5.0mb
 AVF 67.54 312 eP 49 54.20 0.1
 1.0s 14.00nm 5.0mb

ASPA 67.62 141 iPd 49 54.10 -0.7
 0.8s 12.30nm 5.1mb
 EKA 67.74 322 Pc 49 56.50 1.3
 0.9s 11.20nm 5.0mb

BGF 67.96 312 eP 49 56.80 0.1
 0.8s 10.75nm 5.0mb
 MAF 68.27 312 eP 49 59.40 0.7
 0.8s 8.75nm 4.9mb

TCF 68.47 312 eP 50 00.50 0.5
 0.8s 12.10nm 5.0mb
 LDF 68.92 315 eP 50 03.00 0.3
 0.8s 10.75nm 5.0mb

IMA 69.03 24 eP 50 03.20 0.0
 CAF 69.14 311 eP 50 05.10 1.0
 1.0s 8.50nm 4.8mb
 RJF 69.33 311 eP 50 06.40 1.2

0.9s 9.85nm 4.9mb
 Z 20s 0.08um 3.9Msz
 GRR 69.45 315 eP 50 06.30 0.4
 0.8s 16.10nm 5.1mb

MBC 69.46 8 eP 50 07.00 1.5
 MFF 69.80 313 eP 50 08.30 0.2
 1.0s 12.00nm 4.9mb
 LPO 69.81 311 eP 50 09.10 0.9

0.8s 8.05nm 4.8mb
 LFF 69.98 311 eP 50 10.20 1.0
 0.8s 10.75nm 5.0mb
 SVW 71.03 29 eP 50 15.60 0.3

FBA 71.71 23 eP 50 18.70 -0.6
 PMR 73.29 26 eP 50 30.50 1.9
 INK 73.45 17 eP 50 28.50 -1.0
 TOL 75.49 308 eP 50 43.00 1.2

STK 78.25 140 eP 50 56.50 -0.6
 0.8s 3.00nm 4.4mb
 FFC 92.01 9 eP 52 07.00 1.4
 0.8s 10.00nm 5.3mb

LKO 92.92 283 P 52 08.92 -1.5
 KIC 93.96 280 P 52 16.60 1.4
 PPD 147.60 280 ePKP 58 41.30 2.1X
 e 58 44.60

SIV 152.06 300 PKP 58 51.40 5.2X
 i 58 54.60
 S.D. = 1.2 an 77 af 86 obs.

% OCT 02, 1990 12h 44m 03.44 ± 0.78s
 43.204 N ± 7.8km 12.244 E ± 8.3km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)

ASS 0.33 113 P 44 11.00 0.6
 eSg 44 17.40
 CRE 0.47 333 P 44 12.50 -0.6
 eSg 44 20.40

ARV 0.59 60 P 44 15.30 -0.1
 eSg 44 24.60
 PGD 0.77 331 P 44 18.60 0.0
 eSg 44 30.50

SFI 0.77 338 P 44 18.10 -0.4
 eSg 44 29.80
 MNS 0.88 158 P 44 19.60 -0.8
 eSg 44 32.60

BDI 1.47 306 P 44 31.20 1.1
 S.D. = 0.8 an 7 of 7 obs.

* OCT 02, 1990 13h 19m 28.96 ± 0.54s
 17.596 S ± 16.4km 167.579 E ± 7.3km
 DEPTH = 33.0km (normal)
 4.6mb (3 obs.) 4.1Msz (1 obs.)
 VANUATU ISLANDS (186)

BKM 0.64 97 iPc 19 41.50 0.0
 iS 19 49.00
 PVC 0.71 102 iPc 19 42.00 -0.6
 iS 19 52.00

DZM 4.58 193 iPc 20 31.70 -6.1X

RMO	19.55	240	iS	21	18.00	
CTA	20.33	260	iPd	24	06.40	-0.5
	1.0s	28.00nm			4.6mb	
BWA	23.96	222	eP	24	41.50	0.2
CMS	24.08	231	eP	24	43.00	0.6
CAN	24.18	220	eP	24	45.50	2.0X
STK	27.46	234	iPc	25	14.50	0.4
	0.9s	6.00nm			4.3mb	
		iPcP	25	27.20		
WB5	31.51	261	eP	25	48.60	-1.7
ASPA	32.04	253	iPd	25	54.10	-0.9
	0.9s	11.40nm			4.8mb	
Z	20s	0.36um			4.1msz	
		LR	37	47.00		
GUN	91.03	299	P	32	33.30	1.2
PKI	91.32	298	P	32	31.40	-1.9
KKN	91.50	299	P	32	34.20	0.2
DMN	91.58	298	P	32	33.40	-1.1
GKN	92.10	299	P	32	37.60	0.9
NDI	98.56	297	eP	33	15.00	9.1X
LJU	143.88	328	e(PKP)	39	18.50	15.9X
VOY	144.21	328	ePKP	39	20.20	16.9X
		e	39	36.80		
CAI	145.79	132	iPKPd	39	07.00	0.2
CSI	146.74	318	PKP	39	11.10	3.5X
CZI	147.14	317	PKP	39	10.00	1.8
S.D. = 1.1 on 16 of 22 obs.						

OCT 02, 1990 13h 27m 06.16±0.46s
 3.734 N ± 7.7km 95.793 E ± 5.5km
 DEPTH = 59.9km (7 depth phases)
 5.0mb (9 obs.)
 OFF W COAST OF NORTHERN SUMATERA(705)

IPM	5.29	81	ePc	28	25.10	0.6
	0.4s	135.90nm			5.6mb	
		e	29	20.90		
KLM	5.88	96	eP	28	45.00	12.3X
SNG	5.90	54	eP	28	33.60	0.6
KGM	7.71	103	ePd	28	59.30	1.1
NNT	9.62	24	eP	29	21.40	-3.2X
LOE	14.78	23	eP	30	38.00	4.7X
CHG	15.30	11	eP	30	40.70	0.7
CHTO	15.30	11	eP	30	40.70	0.7
	0.7s	4.45nm			3.8mb X	
		pP	30	53.30		
		sP	30	56.80		
KOD	19.29	298	eP	31	30.00	0.5
KKM	20.48	83	ePd	31	41.60	-0.1
	0.7s	100.90nm			5.3mb	
QIZ	20.49	41	P	31	41.60	-0.1
GBA	20.61	308	P	31	43.00	0.1
		S	35	13.00		
KMI	22.29	17	eP	32	02.00	2.0
Z	16s	0.40um			3.9mszX	
		pP	32	16.00	60km	
GYA	24.88	24	P	32	25.00	0.0
POD	26.02	306	eP	32	33.50	-2.1
LSA	26.20	351	eP	32	36.00	-1.6
CD2	28.06	15	eP	32	53.10	-0.9
WHN	31.91	31	eP	33	27.50	-0.7
XAN	32.54	21	P	33	32.00	-1.7
LZH	33.04	12	Pc	33	36.50	-1.7
	0.8s	12.00nm			4.8mb	
TIY	37.09	22	Pd	34	12.40	-0.2
QUE	37.89	317	eP	34	20.60	1.1
BTO	38.88	17	eP	34	26.60	-1.0
HHC	39.59	19	P	34	34.50	1.0
KSH	39.84	336	P	34	36.50	0.9
WMO	40.56	351	P	34	37.00	-4.4X
BJI	40.57	24	eP	34	42.00	0.6
	0.9s	42.00nm			5.3mb	
WB5	44.57	123	eP	35	13.50	-0.8
ASPA	46.04	128	iPd	35	24.50	-1.5
	0.4s	5.30nm			4.8mb	
CN2	47.74	29	P	35	37.80	-1.2
MAT	50.83	44	eP	36	02.00	-0.9
STK	56.09	133	eP	36	42.00	0.3
	1.6s	29.00nm			5.1mb	
		e	36	51.50	31kmX	
BRS	63.01	123	iP	37	12.50	-17.0X
		i	37	30.50	68km	
VR1	72.82	317	ePd	38	30.50	0.1
OHR	76.25	311	e(P)	38	49.00	-1.3
NUR	77.54	331	eP	39	13.00	16.1X
	0.5s	11.20nm				

			i	39	29.20	58km
SPC	77.75	319	iP	38	59.30	0.7
KRA	78.07	320	eP	39	00.80	0.7
			e	39	17.00	58km
SOD	78.64	338	iP	39	02.60	-0.3
			i	39	18.80	58km
KEV	79.26	341	eP	39	22.00	15.8X
ZST	79.69	318	i(P)	39	10.00	1.1
			i	39	26.60	59km
PRU	81.53	320	P	39	19.80	1.2
			e	39	36.30	59km
BRG	81.97	321	e(P)	39	16.40	-4.5X
KHC	82.09	319	eP	39	23.30	1.7
CLL	82.59	321	eP	39	23.00	-1.1
HFS	82.84	330	eP	39	25.20	0.0
	0.6s	6.10nm				4.8mb
WATA	83.35	317	iP	39	32.50	4.2X
			i	39	46.10	46kmX
SOTA	83.60	317	iP	39	29.30	-0.2
	0.5s	8.80nm				5.0mb
NB2	84.12	331	P	39	31.70	-0.1
	0.9s	7.30nm				4.7mb
ALO	136.21	27	e(PKP)	46	25.00	1.6
SIV	154.20	240	PKP	47	09.40	16.1X
S.D. = 1.1 on 41 of 51 obs.						

% OCT 02, 1990 13h 42m 50.80±0.83s
 39.119 N ± 6.7km 27.648 E ± 8.6km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)						
MD 2.7 (ISK).						
Izm	0.78	203	iPg	43	06.00	0.0
		iSg	43	18.00		
DST	0.90	57	iPn	43	08.20	0.1
EDC	1.24	8	ePn	43	13.50	-0.3
EZN	1.24	305	ePn	43	14.10	0.2
BNT	1.25	10	ePn	43	14.50	0.4
KGT	1.36	349	iPn	43	15.30	-0.4
S.D. = 0.4 on 6 of 6 obs.						

* OCT 02, 1990 13h 43m 44.61±0.51s
 17.052 S ± 9.0km 174.338 W ± 14.3km
 DEPTH = 33.0km (normal)
 5.0mb (8 obs.)

TONGA ISLANDS (173)						
DZM	18.78	252	iPd	48	14.80	11.1X
PUZ	21.93	196	eP	48	41.80	4.8X
NOZ	22.50	196	eP	48	45.30	2.7
WLZ	22.53	201	P	48	47.60	4.7X
MNG	25.08	199	eP	49	08.10	0.4
CAW	25.66	199	eP	49	12.80	-0.2
WDW	25.82	199	eP	49	14.10	-0.5
NOW	25.89	198	eP	49	14.80	-0.4
TCW	26.00	200	eP	49	15.60	-0.6
LTZ	28.08	201	P	49	34.00	-1.2
		e	49	38.00		
COO	33.56	240	iPd	50	25.10	1.3
	0.7s	23.00nm			5.2mb	
STK	42.45	241	iPc	51	39.60	1.4
	1.0s	11.00nm			4.5mb	
WB5	48.59	258	eP	52	26.10	-1.2
ASPA	48.76	253	iPd	52	28.50	-0.1
	0.8s	63.20nm			5.7mb	
		iS	59	12.10		
WARB	55.23	250	eP	53	16.30	-0.8
NANU	65.69	253	eP	54	28.10	-0.3
	0.5s	7.00nm			5.0mb	
SPA	73.06	180	iPd	55	12.30	-0.9
	0.7s	14.84nm			5.1mb	
PMR	80.91	12	eP	55	57.10	0.5
TOA	81.98	13	eP	56	02.70	0.4
ALO	82.54	50	eP	56	06.00	0.0
	1.0s	4.00nm			4.4mb	
FBA	84.18	11	eP	56	13.50	0.1
	0.8s	41.03nm			5.7mb	
IMA	84.32	8	eP	56	14.70	0.4
	0.8s	3.20nm			4.5mb	
CLL	145.32	352	iPKPc	03	19.60	-0.9
	1.0s	14.00nm				
S.D. = 1.0 on 20 of 23 obs.						

? OCT 02, 1990 14h 06m 34.72±3.44s
 11.954 N ± 10.6km 60.123 W ± 35.6km
 DEPTH = 33.0km (normal)
 WINDWARD ISLANDS (95)

GRW	1.52	278	eP	06	59.98	0.0
		eS	07	18.69		
SVB	1.71	320	eP	07	02.64	0.0
		eS	07	25.64		
SVV	1.73	322	eP	07	02.81	-0.1
		eS	07	26.36		
TRN	1.81	224	eP	07	04.00	0.0
		eS	07	28.56		
SLB	2.06	334	eP	07	07.89	0.1
		eS	07	33.39		
S.D. = 0.1 on 5 of 5 obs.						
OCT 02, 1990 14h 45m 30.54±0.29s						
47.465 N ± 5.1km 89.607 E ± 5.3km						
DEPTH = 33.0km (normal)						
4.8mb (16 obs.) 3.9msz (1 obs.)						
NORTHERN XINJIANG, CHINA (332)						
ML 5.3 (BJI).						
WMO	3.88	201	iPnd	46	30.50	1.1
		Sg	47	33.50		
GTA	10.94	134	eP	48	05.00	-2.9X
Z	10s	1.30um				
KSH	12.72	236	P	48	33.00	1.1
		eS	50	56.00		
LZH	15.53	132	eP	49	08.00	-0.7
	1.5s	25.00nm			4.2mb	
Z	10s	0.53um				
		iSP	49	16.00		
BTO	16.18	108	eP	49	21.00	4.0X
N	10s	0.70um				
E	10s	0.50um				
HMC	17.06	105	eP	49	29.60	1.5
		pP	49	34.00		
TIY	19.37	112	eP	49	57.00	0.7
Z	11s	1.20um				
N	10s	0.50um				
GUN	19.74	190	P	49	59.70	-1.1
XAN	19.78	126	P	50	00.80	0.0
	E	10s	0.40um			
		S	53	40.00		
CD2	19.79	142	eP	50	04.00	3.1X
GKN	19.81	193	P	50	00.50	-0.8
KKN	19.93	191	P	50	01.60	-1.0
PKI	20.13	191	P	50	04.20	-0.6
DMN	20.13	192	P	50	04.00	-0.8
BJI	20.51	101	eP	50	09.00	0.7
	1.1s	29.00nm			4.6mb	
Z	12s	0.96um			4.4mszX	
N	10s	0.80um				

02d 14h

FLN	56.63	308 eP	55	11.70	-0.7
GRR	57.05	307 eP	55	14.50	-0.9
INK	60.14	17 eP	55	36.50	-0.1
FFC	77.71	7 eP	57	25.00	-0.1
WB5	78.16	137 eP	57	26.00	-2.0
ASPA	81.25	140 eP	57	42.40	-2.1
ZOBO	143.86	322 ePKP	05	00.00	-4.9X
LPB	144.09	322 (PKP)	05	03.00	-2.0
CNCB	144.28	321 PKP	05	03.00	-2.5X
ARE	145.37	327 ePKP	05	07.00	-0.1

S.D. = 1.1 on 41 of 50 obs.

* OCT 02, 1990 14h 50m 59.63s
62.343 N 150.932 W
DEPTH = 76.2km
CENTRAL ALASKA (1)
<AGS-P>.

CUT	0.31	78 iP	51	11.05	-0.7
SKT	0.46	218 iP	51	12.26	-0.6
PWA	0.85	144 iP	51	16.42	-0.5
HUR	0.87	43 iP	51	16.33	-0.9
SUA	0.89	174 iP	51	17.08	-0.4
GHO	1.11	120 iP	51	19.69	-0.4
NCG	1.11	212 iP	51	19.35	-0.8
PLRM	1.14	131 eP	51	19.78	-0.6
PMR	1.14	131 iPc	51	19.90	-0.5
CGLM	1.16	207 eP	51	19.91	-0.9
CRP	1.23	209 eP	51	21.01	-0.8
PMS	1.28	149 eP	51	21.72	-0.6
SPU	1.28	205 iP	51	21.59	-0.8
BGL	1.29	213 eP	51	22.07	-0.4
CKL	1.33	211 eP	51	22.48	-0.6
SML	1.34	113 iP	51	22.51	-0.6
RND	1.43	41 eP	51	23.07	-1.3
NKA	1.61	185 eP	51	28.70	2.0
MCK	1.67	32 eP	51	26.84	-0.6
SCM	1.77	105 eP	51	27.67	-1.3
SLKM	1.87	169 eP	51	29.73	-0.6
RDT	1.91	202 eP	51	30.17	-0.7
RSO	2.08	206 eP	51	33.01	-0.3
TOA	2.24	94 iPd	51	34.70	-0.7
NNL	2.32	185 eP	51	37.78	1.5
GLI	2.35	127 eP	51	34.93	-1.9
SEW	2.36	162 eP	51	36.04	-0.8
NEA	2.39	20 eP	51	35.46	-1.9
TTA	2.42	286 iPd	51	36.40	-1.4
VZW	2.45	120 eP	51	36.35	-1.9
WRH	2.49	30 iP	51	36.97	-1.8
VLZ	2.50	117 eP	51	36.56	-2.3
KLU	2.52	108 iP	51	37.14	-2.1
KNIM	2.53	141 eP	51	36.13	-3.1
SVW	2.55	243 iPd	51	38.30	-1.4
BRLK	2.59	179 eP	51	40.97	0.8
CCB	2.70	30 eP	51	39.76	-1.9
DDM	2.72	56 eP	51	41.77	-0.3
HDA	2.74	39 eP	51	40.65	-1.5
CNPM	2.83	183 eP	51	43.39	-0.1
MTU	2.85	145 eP	51	40.91	-2.8
OPT	2.92	204 eP	51	45.97	1.2
FBA	2.92	27 iPd	51	43.20	-1.6
PDB	3.01	213 eP	51	45.21	-0.8
GLM	3.09	29 eP	51	45.25	-1.9
DOT	3.40	64 eP	51	49.73	-1.6
GLB	3.49	102 iP	51	50.35	-2.3
CDD	3.68	202 eP	51	55.54	0.3
TMW	3.77	71 eP	51	54.55	-2.0
IMA	3.93	343 eP	51	57.00	-1.9
TGL	4.19	109 eP	51	59.58	-3.0
BALM	4.30	104 eP	52	00.64	-3.4

52 obs. associated

* OCT 02, 1990 15h 00m 52.11±0.76s
24.170 N ±14.2km 64.679 E ±7.4km

DEPTH = 10.0km (geophysicist)
4.6mb (7 obs.)
NEAR COAST OF PAKISTAN (356)

QUE	6.33	18 iPd	02	27.50	-0.4
POO	10.22	122 eP	03	20.50	-1.5
NDI	12.10	66 iPd	03	46.00	-1.5
HYB	14.60	115 ePd	04	24.40	3.6X
GBA	15.99	129 P	04	43.00	4.2X
GKN	18.33	74 P	05	09.30	1.0
DMN	18.69	75 P	05	13.20	0.3
KKN	18.87	75 P	05	15.00	0.0
PKI	18.96	75 P	05	17.30	1.1
GUN	19.41	74 P	05	20.40	-1.3
CHG	32.27	93 eP	07	33.10	9.8X
CHTO	32.27	93 eP	07	25.80	2.5
SKO	39.87	307 iP	08	28.00	0.3
OHR	40.17	306 eP	08	29.50	-0.7
BJI	45.78	57 eP	09	42.50	26.9X
CLL	47.74	318 eP	09	32.00	1.0
NB2	51.66	330 P	10	00.50	-0.5
LKO	68.21	271 P	11	53.70	-1.8
KIC	68.66	267 P	11	59.50	1.3

S.D. = 1.3 on 15 of 19 obs.

* OCT 02, 1990 15h 06m 02.38±0.93s
39.085 N ±8.1km 27.723 E ±8.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.0 (ISK).

I2M	0.78	208 ePg	06	18.00	0.5
DST	0.87	53 iPn	06	20.10	0.9
KCT	1.26	23 iPn	06	26.80	1.0
EDC	1.26	5 ePn	06	26.50	0.6
BNT	1.28	7 iPn	06	26.30	0.2
EZN	1.31	305 ePn	06	26.00	-0.6
KGT	1.40	347 iPn	06	27.80	-0.1
IZI	1.84	47 ePn	06	32.00	-2.3
YLV	1.95	40 ePn	06	35.80	-0.1

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

OCT 02, 1990 15h 06m 44.61±0.11s
24.036 S ±3.5km 174.646 W ±2.6km
DEPTH = 9.3km (geophysicist)
5.8mb (48 obs.) 5.5Maz (20 obs.)
SOUTH OF TONGA ISLANDS (175)

Mo=1.0×10¹⁸ Nm (PPT). Depth
from broadband displacement
seismograms.

FAULT PLANE SOLUTION: P-Waves
NP1:Strike=38 Dip=84 Slip=5
NP2: 307 85 174
Principal Axes:

T P1g=8 Azm=263
P 1 353

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

RADIATED ENERGY
No. of sta: 7 Focal mech. F
Energy 9.2±1.7×10¹³ Nm

MOMENT TENSOR SOLUTION
Dep 11 No. of sta: 13
Moment Tensor: Scale 10¹⁸ Nm

Mrr=0.12 Mtt=-2.87
Mff=2.75 Mrt=-0.22
Mrf=0.58 Mtf=-0.51
Principal axes:
T Val=2.92 P1g=12 Azm=265
N 0.01 78 100
P -2.92 3 355

Best Double Couple:Mo=2.9×10¹⁸
NP1:Strike=40 Dip=79 Slip=6
NP2: 309 84 169
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 31C
Centroid Location:
Origin Time 15:06:50.6 0.5
Lat 24.08S 0.04 Lon 174.49W 0.03
Dep 15.0 BDY Half-duration 2.3
Moment Tensor: Scale 10¹⁷ Nm
Mrr=-4.14 0.08 Mtt=-0.42 0.10
Mff=4.56 0.11 Mrt=1.09 0.25
Mrf=1.53 0.34 Mtf=2.12 0.08
Principal Axes:
T Val=5.68 P1g=10 Azm=291
N -1.13 8 22
P -4.55 77 149
Best Double Couple:Mo=5.1×10¹⁷
NP1:Strike=11 Dip=35 Slip=-104
NP2: 208 56 -80

RAO	5.96	209 P	08	14.00	-1.1
KRO	8.71	319 eP	08	53.20	-0.5
SVA	8.72	311 iPc	08	54.00	0.1
VUN	8.80	312 iPd	08	55.10	0.2
NDE	9.33	322 eP	09	02.20	-0.1
MBU	9.38	317 eP	09	02.80	-0.2
SGE	9.45	311 eP	09	06.00	1.9
PUZ	15.25	202 P	10	10.50	-11.2X
PVC	17.11	288 iPc	10	47.50	2.0
DZM	17.51	273 iPc	10	52.00	1.3
PGZ	18.21	203 eP	10	48.90	-10.2X
KIW	18.93	205 eP	10	56.50	-11.5X
WEL	19.34	205 P	11	12.00	-1.1
TCW	19.47	206 P	11	02.40	-12.2X
AFR	24.11	79 iP	12	01.10	-0.5
PAE	24.25	80 iP	12	02.30	-0.6
PPT	24.28	79 iP	12	02.70	-0.6
PPN	24.42	79 iP	12	04.00	-0.6
TVO	24.50	80 iP	12	05.60	0.1
TPT	26.98	75 eP	12	29.00	0.4
RUV	27.11	76 eP	12	30.00	0.2
HNR	28.26	297 eP	12	37.00	-3.3X
SVO	28.53	297 eP	12	46.00	3.3X
COO	30.36	250 eP	12	59.00	-0.1
CNB	33.06	242 eP	13	23.00	0.3
RMO	33.12	258 iP	13	22.00	-1.2
CAN	33.36	242 eP	13	26.40	1.1
BWA	33.69	244 eP	13	26.70	-1.5
CMS	35.61	249 eP	13	44.00	-0.6
CTA	36.37	268 iPd	13	50.00	-1.2
TOO	36.53	239 iPc	13	53.10	0.7
OLP	37.15	257 eP	13	57.00	-0.6
RAB	37.57	296 eP	14	02.00	0.7
BFD	38.79	240 iPc	14	14.00	2.7
PMG	39.22	285 iPc	14	23.00	7.9X
STK	39.23	249 iPc	14	14.20	-0.8
ADE	41.70	244 eP	14	35.50	0.1
OIS	42.33	265 eP	14	39.00	-1.7
ASPA	46.84	259 iPc	15	16.00	-0.9

	0.9s	86.20nm	5.8mb			0.9s	89.00nm	5.8mb			0.9s	88.82	13 iPd	19 40.40	0.6
Z	16s	5.84um	5.6mszX			RVR	79.32	45 eP	18 52.00	-0.3	TOA	1.1s	96.90nm	19 42.80	6.0mb
		iPcS	20 43.10			PEC	79.40	46 P	18 51.50	-1.2	BW06	89.46	42 P	19 42.80	-0.7
		iS	22 01.80			SBB	79.46	45 eP	18 53.00	-0.1		1.8s	43.40nm		5.4mb
		IScS	25 21.90			ISA	79.67	43 eP	18 54.00	-0.2	LRM	89.50	38 eP	19 42.60	-1.0
		LR	35 42.00			FRI	79.75	42 eP	18 54.40	-0.1	GOL	90.46	46 P	19 55.00	6.7X
WB5	47.27	265 eP	15 17.00	-3.3X		FHC	79.84	37 eP	18 55.00	0.0	Z	20s	2.00um		5.5msz
		e	21 02.90			CMB	80.03	41 eP	18 56.00	0.0	BJI	90.57	314 ePd	19 48.35	0.0
		e	22 09.80			TPC	80.26	46 eP	18 58.00	0.6		1.5s	140.00nm		6.0mb
HON	47.90	21 P	15 30.00	4.9X		CLC	80.32	44 eP	18 58.00	0.3	Z	26s	0.99um		5.1mszX
		0.99um				ORV	80.38	39 eP	18 57.60	-0.2			epPc	19 51.50	10kmX
KIP	48.00	21 ePc	15 23.96	-1.9		GLA	80.43	47 eP	18 58.00	-0.3			ePP	23 28.00	
		epPc	15 26.11	7kmX		WDC	80.49	38 eP	18 57.90	-0.5	GLD	90.59	46 P	19 55.00	6.3X
		esPd	15 28.59			GSC	80.50	45 ePd	18 58.95	0.3	Z	20s	2.50um		5.6msz
FORR	50.80	249 iPd	15 46.40	-1.0				epPc	19 01.93	9kmX	COL	91.05	11 ePd	19 49.53	-0.5
	0.4s	60.00nm		5.9mb		OZH	80.93	302 eP	19 00.00	-1.0			ipPc	19 52.51	9kmX
MTN	52.35	272 iPd	15 57.20	-2.2		TNP	81.97	42 P	19 05.00	-0.7			eSKS	30 21.91	
KNA	53.55	268 eP	16 07.00	-1.3			1.4s	75.00nm		5.6mb			eS	30 47.40	
	0.5s	34.00nm		5.6mb		SSE	82.32	309 P	19 09.00	0.9	FBA	91.05	11 iPd	19 49.50	-0.6
GUA	54.37	309 eP	16 13.00	-1.2			1.0s	48.00nm		5.6mb			0.9s	2512.50nm	7.5mb X
	0.8s	220.90nm		6.2mb		Z	20s	0.50um		4.9msz	GYA	91.07	298 iPd	19 52.20	1.0
GUMO	54.44	309 eP	16 13.50	-1.2		E	16s	0.50um			IMA	91.23	8 iPd	19 50.70	-0.3
	1.0s	264.00nm		6.2mb				PP	22 12.00		LOE	91.35	288 eP	19 53.50	1.1
PJG	54.44	309 eP	16 13.80	-0.9				SKS	29 20.00		TIY	91.93	311 iPd	19 55.50	0.7
SBA	54.59	185 iPd	16 18.30	3.2X				SS	34 44.00			1.1s	100.00nm		6.1mb
COOL	56.71	248 eP	16 30.10	-1.0		KGM	83.54	275 ePc	19 16.50	1.7	Z	34s	1.70um		5.3mszX
KLB	59.43	246 iPd	16 49.90	-0.2		GZH	84.14	298 P	19 19.00	1.4	N	17s	0.90um		
	0.6s	88.00nm		6.1mb		NJ2	84.51	309 Pd	19 20.00	0.7			sP	20 16.20	
RKG	59.61	243 iPd	16 50.50	-0.8			5.0s	500.00nm		6.0mb X			SKS	30 27.00	
	0.5s	34.00nm		5.7mb		Z	32s	0.90um		4.9mszX	NST	92.03	286 eP	19 57.50	2.0
NWAO	59.62	245 iPd	16 50.80	-0.6				pP	19 33.00		XAN	92.73	306 P	19 59.50	1.0
	Z	20s	0.90um	4.9msz				PP	22 36.00		MEQ	92.79	53 iPd	19 58.30	-0.5
	N	20s	1.60um					S	29 44.00		SES	92.93	35 eP	19 59.00	0.0
	E	20s	1.00um					eS	29 49.50			1.1s	107.00nm		6.2mb
MBL	60.07	259 eP	16 53.70	-0.9		QIZ	85.12	293 P	19 20.10	-2.5	HIA	93.37	323 ePd	20 00.46	-0.6
	0.7s	87.00nm		6.0mb				PP	22 40.00				epPc	20 03.44	9kmX
BAL	60.51	247 iPd	16 57.10	-0.4		MDJ	85.19	324 iPd	19 23.50	1.1			esPc	20 04.76	
MUN	60.65	246 iPd	16 58.20	-0.3			1.0s	200.00nm		6.3mb	EDM	93.42	32 iPd	20 00.90	-0.3
	0.9s	102.00nm		6.0mb		Z	28s	1.10um		5.1mszX	RSSD	93.58	43 P	20 04.00	1.6
MRWA	61.42	249 iPd	17 03.40	-0.3				S	29 46.70				pP	20 17.00	43kmX
NANU	63.51	256 iPd	17 17.90	0.2		MSU	85.39	44 P	19 24.70	0.8	BDT	93.65	287 eP	20 00.60	-2.4
SPA	66.11	180 iPd	17 34.80	0.7		SVW	86.23	9 eP	19 26.80	-0.5		0.8s	57.10nm		6.0mb
	1.1s	126.79nm		6.0mb		DL2	86.42	315 iPd	19 30.00	1.4	KMI	93.70	296 ePd	20 05.18	1.8
	Z	19s	2.45um	5.4msz			1.0s	100.00nm		6.0mb		1.5s	80.00nm		5.9mb
TRT	71.15	270 iPd	18 06.90	0.9		Z	36s	0.70um		4.9mszX	Z	20s	0.60um		5.1msz
KAKJ	73.56	323 eP	18 19.30	-0.4				SKS	29 52.00				epPc	20 08.16	9kmX
CHJJ	74.09	322 eP	18 22.60	-0.3		IPM	86.68	276 ePd	19 32.50	2.0			esPc	20 09.98	
IIDJ	74.30	321 eP	18 24.40	0.3			0.7s	81.50nm		6.0mb			S	30 40.00	
WKYJ	74.77	319 eP	18 26.80	-0.1		SNY	86.90	319 iPd	19 31.00	0.1			SS	31 18.00	
MAJO	74.89	322 ePd	18 26.93	-0.6			1.0s	100.00nm		6.0mb	HHC	94.03	313 P	20 05.60	1.2
		ipPc	18 29.91	10kmX		Z	40s	1.70um		5.1mszX		1.0s	100.00nm		6.1mb
		e	18 33.22					sP	19 52.00		Z	25s	1.40um		5.3mszX
MAT	74.89	322 iPd	18 26.40	-1.1				eSKS	29 54.00		CHG	94.34	289 ePd	20 07.90	1.8
	1.0s	46.00nm		5.5mb		CN2	86.98	321 Pd	19 31.80	0.5		1.0s	35.50nm		5.7mb
		eS	27 49.00				1.0s	200.00nm		6.3mb	CHTO	94.34	289 ePd	20 06.86	0.7
OFUJ	74.91	326 eP	18 26.80	-0.7		Z	28s	1.40um		5.2mszX			epPc	20 09.84	9kmX
NIIJ	74.95	323 eP	18 27.50	-0.3				pP	19 43.00	36kmX	SIO	94.89	53 eP	20 08.60	0.2
YAMJ	75.08	325 P	18 28.60	0.0				eS	30 07.00		BTO	94.95	312 eP	20 09.50	0.8
MTMJ	75.15	322 eP	18 28.70	-0.4		WHN	87.02	305 eP	19 33.00	1.3			sP	20 30.50	
TSRJ	75.45	320 eP	18 30.60	-0.1			6.0s	600.00nm		6.0mb X			SKS	30 40.00	
TKSJ	75.54	318 eP	18 31.00	-0.3		Z	20s	0.60um		5.0msz	TUL	95.34	53 eP	20 10.20	-0.2
ADK	75.61	359 eP	18 29.90	-1.3				pP	19 46.50	45kmX		1.0s	28.30nm		5.7mb
	1.0s	160.00nm		6.0mb				S	30 00.00		INK	96.89	14 eP	20 16.00	-0.7
KAGJ	75.72	314 eP	18 32.60	0.2		LNV	87.07	126 eP	19 32.50	0.4	LZH	97.36	306 Pd	20 21.00	1.2
AIA	76.51	156 eP	18 36.10	-0.2		LCCH	87.17	125 eP	19 34.00	1.4		1.5s	28.00nm		5.7mb
KUSJ	76.56	331 eP	18 36.40	-0.4		ALO	87.24	50 iPd	19 33.10	0.1	Z	40s	2.56um		5.4mszX
KUMJ	76.62	315 eP	18 37.30	-0.1			1.0s	55.50nm		5.8mb			sP	20 36.00	
HOOJ	76.65	329 eP	18 38.20	0.9			Z	20s	3.10um	5.7msz			PP	24 19.00	
AOMJ	76.68	326 eP	18 38.20	0.7				e	19 45.00				SKS	30 57.00	
YONJ	76.71	319 eP	18 38.00	0.1		ANMO	87.24	50 iPd	19 33.76	0.8			SS	38 20.00	
SMY	77.07	353 P	18 45.00	5.6X			1.7s	230.77nm		6.2mb	CNCB	97.74	112 P	20 25.00	2.5
	Z	20s	3.00um	5.6msz		Z	20s	3.72um		5.8msz	LPB	97.77	112 P	20 23.00	0.6
SHNJ	77.47	316 eP	18 38.90	-3.1X				ipPc	19 36.74	9kmX		Z	16s	1.35um	5.5mszX
MRRJ	77.74	328 eP	18 43.40	0.1				eSKS	30 00.50				LR	52 20.00	
SYJ	77.99	44 eP	18 46.00	0.9				iS	30 24.67		ZOBO	97.87	112 P	20 25.00	1.9
ASAJ	78.29	330 P	18 47.40	1.0		SIT	87.29	20 eP	19 32.10	-0.3		Z	18s	1.29um	5.5msz
BCH	78.35	43 P	18 47.00	-0.1		DPW	87.66	34 P	19 33.80	-0.7			SKS	31 16.00	
GCC	78.40	40 eP	18 50.40	3.3X		PMR	87.77	12 eP	19 34.80	0.1			LR	52 36.00	
ABL	78.68	44 P	18 48.20	-0.8			1.0s	402.00nm		6.7mb	GTA	101.60	308 Pd iff	20 41.60	2.7X
MHC	78.82	40 eP	18 51.70	2.1		TTA	87.92	8 iPd	19 35.00	0.3	Z	46s	2.50um		5.4mszX
ARN	78.89	41 P	18 49.80	-0.1			1.0s	115.00nm		6.2mb	GUN	108.77	293 PKP	25 15.80	-0.9
PAS	78.90	45 ePd	18 49.45	-0.5		TIA	87.94	311 Pd	19 36.80	0.8	PKI	109.07	292 PKP	25 16.30	-1.0
		epPc	18 52.60	10kmX			Z	38s	1.66um	5.2mszX		1.0s	24.00nm		
BAR	78.97	47 eP	18 50.00	-0.5		PEL	87.98	125 iPd	19 37.50	0.9	KKN	109.24	292 Pd iff	21 00.00	-13.3X
MWC	79.02	45 eP	18 50.00	-0.9			1.0s	35.00nm		5.6mb	KKN	109.24	292 PKP	25 16.60	-0.8
PLM	79.26	46 eP	18 52.00	-0.2		SNG	88.11	279 eP	19 39.40	2.1		1.0s	36.00nm		
MAW	79.28	199 iPd	18 53.90	2.4				eS	30 15.00		DMN	109.33	292 PKP	25 17.00	-0.7

02d 15h

GKN	109.85	293	PKP	25	17.10	-1.4	AYN	152.19	287	PKP	26	42.80	7.3X	MMB	156.74	323	iPKPc	26	41.00	-0.5
GBA	111.60	276	PKPc	25	20.70	-1.2	VRI	152.21	327	ePKPc	26	41.50	6.4X	OGA	156.77	350	ePKP	26	41.20	-0.4
	0.7s		3.80nm				BRD	152.29	326	ePKP	26	40.00	4.8X	LOR	156.79	3	ePKP	26	41.10	-0.2
NDI	116.33	291	iPKPc	25	30.00	-0.6	SPC	152.30	339	ePKP	26	35.00	-0.4		1.3s		27.10nm			
	0.7s		13.70nm				BMR	152.34	333	ePKPc	26	36.00	0.8	Z	21s		1.02um			5.6Msz
BLF	123.49	202	iPKPc	25	45.00	0.5	TLB	152.39	324	ePKP	26	39.00	3.7X	LJU	156.82	344	ePKPd	26	41.00	-0.4
	1.0s		64.00nm				BRG	152.39	348	iPKPc	26	35.60	0.4	SSF	156.98	3	ePKP	26	41.30	-0.2
SOB1	124.04	121	iPKPd	25	45.30	-0.5					26	42.50			1.1s		15.85nm			
QUE	125.40	291	iPKPc	25	48.90	0.7	JVI	152.43	293	ePKP	26	43.00	7.2X	VOY	157.00	345	ePKPd	26	41.00	-0.7
SLR	125.77	206	iPKPd	25	48.50	-0.6	ISR	152.81	326	ePKP	26	40.00	4.0X	LLS	157.03	354	ePKPc	26	42.10	0.2
	1.5s		97.22nm				MLR	152.87	327	ePKPc	26	35.00	-1.2	MFF	157.05	10	ePKP	26	41.50	-0.1
Z	18s		2.06um			5.8Msz	MOX	152.99	351	ePKP	26	36.00	0.0		1.3s		21.65nm			
DAG	125.90	7	iPKPd	25	46.20	-1.4					26	45.10		OSS	157.07	352	ePKPc	26	42.10	0.2
	0.9s		32.21nm								26	43.50		LBF	157.07	2	ePKP	26	41.50	-0.2
BUL	130.59	209	iPKPc	25	58.50	0.1					26	44.50			1.3s		19.35nm			
MAIO	132.18	298	ePKP	26	01.00	0.1	BADA	153.08	286	PKP	26	25.00	-11.8X	CEY	157.14	343	ePKPd	26	41.00	-0.8
KEV	132.49	350	ePKP	26	00.00	-0.3	MBH	153.10	289	ePKP	26	45.00	8.2X	TRI	157.33	345	ePKP	26	41.10	-0.9
				26	15.00		PRU	153.12	347	PKP	26	35.70	-0.5					27	12.50	
KRI	132.98	213	iPKPc	25	58.30	-4.7X					26	55.00						30	50.00	
				29	58.90						26	37.00		VDL	157.36	353	ePKPc	26	42.70	0.4
SOD	134.68	349	iPKP	26	03.60	-0.9					26	39.50		SMF	157.41	3	ePKP	26	41.70	-0.4
				26	15.00		Z	16s		0.60um		5.5MszX	BGF	157.44	5	ePKP	26	41.90	-0.2	
SUF	138.88	346	ePKP	26	10.00	-2.5X	E	17s		0.50um			CTI	157.46	349	PKP	26	42.00	-0.3	
NUR	141.16	345	ePKP	26	10.00	-6.7X					26	44.00		LSF	157.62	7	ePKP	26	42.20	-0.2
	0.7s		12.00nm				UCC	153.27	1	PKP	26	45.00	8.6X	TCF	157.65	6	ePKP	26	42.30	-0.1
				26	15.90		ENN	153.31	359	ePKPc	26	36.50	0.1		1.3s		19.85nm			
ARO	142.32	257	iPKP+	26	18.00	-2.2X					26	44.50		SKO	157.66	327	iPKP	26	41.80	-0.7
TAB	142.52	302	ePKP	26	17.00	-3.0X					26	56.00		Z	20s		0.93um			5.6Msz
NB2	142.80	355	PKP	26	13.80	-5.8X					26	36.80						30	51.00	
	0.8s		8.70nm				MEM	153.47	359	PKP	26	36.80	0.2	MAF	157.75	5	ePKP	26	42.40	-0.1
UPP	143.18	350	iPKP	26	14.80	-5.4X					26	44.70		TMA	157.80	354	ePKPc	26	42.90	0.1
HFS	143.46	353	ePKP	26	15.70	-5.0X					26	27.00	-9.9X	MMK	157.93	355	ePKPc	26	43.90	0.9
	1.4s		69.50nm				CMP	153.47	328	iPKPc	26	27.00	0.0	DIX	157.94	356	ePKPc	26	44.20	1.1
Z	18s		0.35um			5.2Msz	PSZ	153.51	338	ePKP	26	36.00	-1.0	EMS	157.98	357	ePKPc	26	43.50	0.5
			LR				BUC	153.54	325	ePKP	26	36.00	-5.0X	VAI	158.04	354	PKP	26	42.80	0.0
KMSA	143.66	272	PKP	26	19.60	-2.7X	TNR	153.55	329	ePKPc	26	32.00	0.6	LPL	158.54	357	ePKP	26	44.00	0.3
SRAT	144.29	268	PKP	26	23.30	-0.4	SNF	153.56	2	PKP	26	37.40		RJF	158.55	7	ePKP	26	43.50	0.1
KMTA	144.59	268	PKP	26	23.70	-0.5					26	45.20			1.1s		17.10nm			
ABHA	144.72	268	PKP	26	25.00	0.5	HRT	153.65	315	ePKP	26	39.00	1.7	Z	22s		1.58um			5.8Msz
OASM	145.43	282	PKP	26	25.30	0.1	TNS	153.75	356	ePKPd	26	45.00	7.8X	LPG	158.56	357	ePKP	26	44.20	0.4
AFIF	145.53	278	PKP	26	26.00	0.5	ISK	153.91	316	ePKP	26	49.00	11.4X		1.3s		18.05nm			
UOSK	146.46	281	PKP	26	27.70	0.7	YLV	153.97	315	iPKP	26	45.80	8.0X	OHR	158.63	326	ePKP	26	42.50	-1.2
EDR	146.65	8	ePKPd	26	27.00	0.8	DOU	153.98	1	PKP+	26	41.00	3.6X		1.2s		60.00nm			
	0.9s		126.00nm								26	46.00						27	09.00	
ELO	146.93	9	ePKPd	26	28.00	1.3					26	30.00		LFF	158.81	9	ePKP	26	44.10	0.4
EDU	146.95	8	ePKPd	26	28.10	1.4	GRF	153.98	351	ePKP	26	37.70	0.2	CAF	158.99	7	ePKP	26	44.30	0.3
	1.0s		270.00nm								26	46.30			1.3s		25.25nm			
EAB	147.11	10	ePKPd	26	28.60	1.7					26	59.30		BNI	159.01	357	PKP	26	45.40	1.3
	1.1s		241.00nm				DEV	154.00	331	iPKPc	26	40.00	2.4X	LPO	159.12	8	ePKP	26	44.40	0.3
EBH	147.17	9	ePKPd	26	29.00	2.0	SRO	154.13	340	ePKP	26	37.80	0.1		1.3s		20.85nm			
	0.9s		218.00nm				KHC	154.13	348	iPKPd	26	37.80	0.1	SFI	159.46	347	PKP	26	44.50	0.1
ESY	147.62	8	ePKPd	26	29.90	2.1X					26	46.30		PGD	159.53	347	PKP	26	45.00	0.2
	0.9s		129.00nm				Z	20s		0.70um		5.5Msz	BDI	159.57	349	PKP	26	43.50	-1.2	
COP	147.96	352	iPKPd	26	31.30	3.0X	N	20s		0.60um			ARV	159.61	344	PKP	26	44.50	-0.2	
	1.0s		152.00nm				E	20s		0.50um			LIC	159.67	149	PKPd	26	45.82	0.3	
				26	35.00						26	46.30			1.1s		37.50nm			
EKA	148.11	9	PKP	26	29.00	0.5	ZST	154.15	342	ePKP	26	37.50	-0.2	CRE	159.72	346	PKP	26	43.50	-1.4
	0.9s		67.40nm				ALT	154.24	311	ePKP	26	39.00	0.7	KIC	159.93	149	PKPd	26	46.24	0.4
ESK	148.12	9	ePKPd	26	31.20	2.6X	WET	154.25	349	ePKP	26	37.60	-0.3		1.2s		51.00nm			
	1.0s		80.00nm				CTT	154.25	317	ePKP	26	46.30	8.2X	TIC	160.04	148	PKPd	26	46.30	0.3
KVT	149.26	311	iPKP	26	35.90	5.0X	VKA	154.30	343	iPKPd	26	38.20	0.3		1.0s		39.00nm			
GAZ	149.77	303	iPKP	26	37.30	5.6X					26	50.50		SBF	160.15	356	ePKP	26	44.80	-0.5
WIT	151.25	358	iPKPc	26	41.00	7.6X					26	38.00	-0.4		1.2s		35.70nm			
				26	52.00		JMB	154.56	321	ePKP	26	37.00	-1.6	ECRI	160.36	17	ePKP	26	47.70	2.1X
KRA	151.64	340	ePKP	26	34.00	-0.1	BZS	154.76	333	ePKP	26	38.00	-0.6	FRF	160.50	357	ePKP	26	45.50	-0.1
	0.8s		141.00nm				PVL	154.76	324	iPKPd	26	38.00	0.5		1.2s		26.80nm			
				26	40.50		SOP	154.77	342	iPKPd	26	39.00	-2.9X	LCI	160.60	330	PKP	26	46.00	0.3
				26	44.00		KMR	155.03	346	ePKP	26	36.00	-1.5	EPF	160.61	11	ePKP	26	46.50	0.7
WAJH	151.69	281	PKP	26	42.50	7.6X	KGT	155.35	317	ePKP	26	38.00	0.4		1.3s		36.10nm			
HRI	151.87	296	ePKP	26	42.00	6.8X	DIM	155.43	322	ePKP	26	40.00	0.3	LRG	160.61	358	ePKP	26	45.90	0.2
KSP	151.93	345	ePKP	26	34.20	-0.3	FUR	155.46	350	ePKP	26	39.80	-0.6		1.3s		50.55nm			
	0.9s		153.00nm				CDF	155.62	357	ePKP	26	39.20	-0.1	MNS	160.72	343	PKP	26	45.50	-0.4
				26	41.50		KDZ	155.75	321	iPKP	26	40.00	-0.3	LMR	160.73	357	ePKP	26	45.90	0.1
				26	45.20		HAU	156.07	358	ePKP	26	40.10	-1.0		1.0s		18.00nm			
CFR	151.94	324	ePKP	26	33.00	-1.7	HLW	156.15	290	ePKP	26	40.00	0.2	DUI	160.85	339	PKP	26	46.00	-0.1
DBN	151.98	0	ePKP	26	38.00	3.5X	SLE	156.19	355	ePKPc	26	40.70	-0.2	AZI	160.87	341	PKP	26	46.00	0.1
ANTO	152.02	311	ePKPd	26	34.82	-0.3	WATA	156.22	349	iPKPc	26	40.60	-0.5	SDI	161.02	340	PKP	26	46.00	-0.2
				26	42.10						26	51.20								

CZI 162.32 331 PKP 26 45.50 -2.0
TOL 162.32 24 iPKP 26 49.00 1.5
iPKKP 27 35.50
iPP 31 17.00
eSP 45 00.00
eSS 51 45.00
EVAL 162.98 35 ePKP 26 50.50 2.3X
ECOG 164.74 28 ePKP 26 51.00 0.9
AFC 164.77 28 ePKP 26 51.00 0.8
S.D. = 0.9 on 283 of 341 obs.

OCT 02, 1990 15h 15m 24.89 ± 0.36s
43.531 N ± 2.5km 110.463 W ± 3.1km
DEPTH = 5.0km (geophysicist)
WYOMING (460)
ML 3.6 (BUT).

TRXW 0.23 342 iPd 15 29.71 0.1
MOOW 0.30 317 iPc 15 30.91 -0.1
ANGW 0.36 33 iPd 15 31.81 -0.4
PACW 0.37 357 iPd 15 32.20 -0.2
TARW 0.45 301 iPc 15 33.79 -0.1
MUDI 0.46 281 iPc 15 34.28 0.2
COLW 0.46 338 iPd 15 33.83 -0.2
RAMW 0.50 316 iPc 15 34.64 -0.4
IMW 0.50 317 iP 15 34.10 -0.9
STEW 0.54 343 iPd 15 35.34 -0.4
S 15 42.48
ALPW 0.54 226 ePc 15 36.06 0.2
S 15 43.50
CHOI 0.59 249 ePc 15 36.79 0.1
S 15 45.21
PINI 0.64 268 ePc 15 37.78 -0.1
S 15 46.85
GRAI 0.69 294 ePc 15 38.69 -0.1
BW06 1.00 138 eP 15 43.20 -1.3
PTI 1.54 245 eP 15 53.00 -0.3
LTMT 1.55 311 iPnc 15 53.00 -0.5
HPI 1.92 276 eP 15 58.20 -0.7
BGMT 2.04 327 ePn 16 01.60 1.0
MEMT 2.10 350 ePn 16 02.50 1.1
MCMT 2.15 308 ePnc 16 03.10 0.9
SXM 2.67 349 ePn 16 09.90 0.4
LRM 2.69 329 ePn 16 11.00 1.1
HBMt 2.73 327 ePn 16 12.60 2.1X
BUT 2.90 330 ePg 16 11.90 -0.8
eSg 16 54.10
HRY 3.32 344 ePn 16 18.90 0.2
RSSD 4.69 81 eP 16 40.00 1.8X
PV09 5.13 168 eP 16 45.00 0.5
GOL 5.40 133 eP 16 49.00 0.6
S.D. = 0.6 on 27 of 29 obs.

? OCT 02, 1990 15h 30m 02.94 ± 3.39s
38.021 N ± 15.0km 0.311 W ± 30.7km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 2.7 (MDD).

ACU 0.50 351 iP 30 13.20 0.2
eS 30 19.00
ECHE 1.65 342 ePn 30 31.80 -0.3
EVIA 1.83 290 ePn 30 35.00 0.2
eSn 30 58.00
ENIJ 1.84 236 ePn 30 35.00 0.1
EBAN 2.74 274 ePn 30 47.60 -0.3
eSn 31 20.50
S.D. = 0.3 on 5 of 5 obs.

? OCT 02, 1990 15h 35m 00.39 ± 5.10s
32.350 S ± 33.9km 70.350 W ± 19.2km
DEPTH = 10.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

JACH 0.39 212 iPd 35 08.60 0.2
iS 35 11.50
ROCH 0.83 222 iPd 35 16.20 -0.5
iS 35 24.80
FCH 0.98 177 iPc 35 19.20 0.0
iS 35 29.90
PCH 1.27 186 iPc 35 24.20 0.1
iS 35 38.40
TACH 1.39 201 iP 35 25.20 -0.6
iS 35 41.00
LCCH 1.52 222 iPc 35 28.00 0.4
iS 35 45.00
LNV 1.83 209 iPd 35 32.50 0.4

iS 35 53.50
S.D. = 0.5 on 7 of 7 obs.

? OCT 02, 1990 16h 11m 48.39 ± 0.74s
54.405 S ± 20.9km 119.540 W ± 20.0km
DEPTH = 10.0km (geophysicist)
4.8mb (3 obs.) 5.1MsZ (1 obs.)
EASTER ISLAND CORDILLERA (684)

SPA 35.78 180 iPc 18 49.50 0.2
1.0s 14.00nm 4.8mb
CNCB 54.46 67 P 21 16.00 -2.8X
i 24 21.00
LPB 54.62 67 eP 21 20.00 0.2
e 24 27.00
ZOBO 54.82 67 P 21 21.00 -0.5
1.2s 20.27nm 5.0mb
Z 24s 20.63um 4.6MsZ

SIV 58.92 73 eP 21 42.00 -8.0X
i 21 48.00
ASPA 80.15 243 eP 23 59.00 -1.1
1.2s 7.40nm 4.5mb
WB5 83.01 246 eP 24 15.90 0.8
PLM 87.43 2 eP 24 40.00 3.2X
ALO 89.70 11 e(P) 24 48.00 0.4
LZH 145.08 256 PKPc 31 29.50 2.3X
2.0s 57.00nm 5.1MsZ
Z 18s 0.29um

PKI 147.57 224 PKP 31 35.30 3.6X
0.7s 15.00nm
GUN 147.68 225 PKP 31 35.90 4.0X
DMN 147.73 224 PKP 31 36.00 4.1X
0.8s 57.00nm
KKN 147.82 224 PKP 31 36.00 4.0X
1.0s 44.00nm

GKN 148.27 224 PKP 31 36.60 4.0X
MOX 150.53 77 ePKP 31 43.00 7.9X
OHR 150.63 100 ePKP 31 31.20 -4.5X
KHC 150.95 81 ePKP 31 41.60 5.7X
SKO 151.55 100 ePKP 31 39.00 2.0X
CLL 151.61 77 ePKP 31 45.00 8.3X
1.3s 18.00nm
e 31 54.00
PRU 151.91 80 ePKP 31 46.50 9.3X
BRG 151.96 78 e(PKP) 31 40.20 2.9X
e 31 50.00

KSP 153.29 79 ePKP 31 50.50 11.4X
S.D. = 0.9 on 6 of 23 obs.
* OCT 02, 1990 16h 57m 49.13 ± 1.16s
39.589 N ± 11.9km 25.205 E ± 7.7km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 2.9 (ATH).

PRK 0.89 112 ePn 58 06.00 -0.3
eSn 58 20.00
EZN 0.90 74 iPn 58 06.60 0.3
PLG 1.56 301 ePn 58 17.50 0.5
RDO 1.58 9 ePn 58 17.50 0.4
KGT 1.83 61 iPn 58 20.80 0.0
KDZ 2.07 4 iP 58 24.00 -0.3
iS 58 51.00
MMB 2.29 331 iPd 58 27.00 -0.6
S.D. = 0.5 on 7 of 7 obs.

* OCT 02, 1990 17h 00m 55.18 ± 0.90s
24.034 S ± 6.4km 66.622 W ± 15.9km
DEPTH = 199.1 ± 12.2km
4.3mb (2 obs.)
SALTA PROVINCE, ARGENTINA (129)

ANT 3.49 275 iPc 01 52.30 1.2
iS 02 31.50
CNCB 7.30 350 iPc 02 43.50 2.7X
eS 04 07.00
RTLL 7.45 192 iPd 02 41.20 -1.0
LPB 7.59 349 P 02 48.00 3.5X
RTCB 7.67 194 iP 02 44.60 -0.6
ZOBO 7.85 349 iPc 02 49.20 1.0
S 04 15.00
RTCV 7.98 192 eP 02 48.20 -1.1
RTBS 8.00 198 e(P) 02 49.70 0.3
ARE 8.81 328 iPc 02 59.80 -0.4
eS 04 34.00

MDZ 9.03 192 eP 03 03.50 0.7
SIV 9.55 34 iPc 03 09.60 0.0
VC1 25.91 332 P 06 10.60 -0.7
CAYA 26.38 334 P 06 12.00 -3.6X
COTA 26.76 333 iP+ 06 16.50 -2.5
SPA 66.11 180 iPd 11 24.70 1.9
0.8s 11.25nm 4.7mb
ALQ 69.76 326 eP 11 47.00 1.2
0.8s 2.43nm 4.0mb
GBA 144.53 100 PKP 20 10.00 0.0
S.D. = 1.3 on 14 of 17 obs.

OCT 02, 1990 17h 28m 23.10 ± 0.45s
44.468 N ± 4.2km 22.390 E ± 4.6km
DEPTH = 10.0km (geophysicist)
ROMANIA (358)

SRE 0.61 71 iPd 28 36.00 0.5
BZS 1.27 335 iPd 28 46.00 -0.7
DRA 1.35 80 eP 28 48.00 0.1
BEO 1.43 285 ePn 28 48.50 -0.5
eSg 29 07.50
COZ 1.63 58 iPc 28 53.00 0.9
TNR 1.78 48 ePc 28 55.00 0.8
VTS 1.97 162 iPc 28 58.00 1.0
iSg 29 29.00
CMP 2.05 66 iPd 29 09.00 11.0X
MTUR 2.05 67 iPd 28 58.00 -0.1
PGB 2.31 145 iPc 29 02.00 0.1
eSg 29 39.00

PVL 2.47 119 eP 29 03.00 -1.0
iS 29 32.00
SKO 2.59 196 ePn 29 06.00 0.3
0.8s 86.00nm
i 29 37.50
Lg 29 51.00

BUC1 2.61 91 eP 29 48.00 42.0X
KKB 2.65 169 eP 29 07.00 0.4
eSg 29 51.00
MLR 2.72 67 ePd 29 07.50 -0.3
CVO 3.00 62 eP 29 18.00 6.4X
ISR 3.03 76 eP 29 21.00 8.9X
MMB 3.04 161 eP 29 13.00 0.9
eSg 30 05.00

TTG 3.06 229 ePn 29 13.00 0.7
eSn 30 04.00
BMR 3.30 13 ePd 29 26.00 10.2X
DIM 3.33 135 eP 29 15.00 -1.3
VRI 3.37 64 eP 29 19.00 2.1
OHR 3.55 200 ePn 29 20.30 0.8
KDZ 3.58 141 iP 29 19.00 -0.9
PSZ 3.86 334 iP 29 23.00 -0.9
CFR 4.16 78 ePd 29 27.00 -1.0
SRO 4.38 321 eP 29 35.20 4.0X
KGT 5.41 136 iPn 29 43.70 -2.1
S.D. = 1.0 on 22 of 28 obs.

? OCT 02, 1990 18h 20m 49.54 ± 10.51s
39.539 N ± 79.4km 29.188 E ± 46.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.3 (ISK).

DST 0.44 279 iPg 20 58.10 -0.4
iSg 21 03.10
IZI 0.83 15 ePg 21 05.70 0.1
eSg 21 15.20
YLV 1.04 8 iPg 21 09.20 0.0
HRT 1.33 16 ePn 21 14.00 -0.1
CTT 1.71 340 ePn 21 19.20 -0.3
KGT 1.71 303 iPn 21 20.20 0.7
S.D. = 0.5 on 6 of 6 obs.

* OCT 02, 1990 19h 29m 49.27 ± 0.67s
46.273 N ± 7.4km 8.640 E ± 5.6km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)

TMA 0.23 136 iPc 29 54.90 0.6
MMK 0.52 245 iPd 29 59.30 -0.5
VDL 0.61 69 ePd 30 01.20 -0.6
LLS 0.65 22 ePd 30 01.60 -0.7
DIX 0.88 258 ePd 30 06.30 0.0
OSS 1.12 68 ePc 30 10.30 -0.1
SLE 1.50 356 ePc 30 17.50 1.3
S.D. = 0.9 on 7 of 7 obs.

02d 19h

* OCT 02, 1990 19h 59m 29.22± 1.12s
36.584 N ±12.1km 26.686 E ± 6.8km
DEPTH = 173.6 ± 18.1 km
DODECANESE ISLANDS (369)

KAP	1.10	159	eP	59	57.00	-0.4
SMG	1.13	6	eP	59	56.90	-0.6
ARG	1.22	107	eP	59	58.00	-0.3
NPS	1.58	214	eP	00	01.50	-0.3
			eS	00	23.00	
VAM	2.33	241	eP	00	10.20	0.2
KSL	2.38	100	eP	00	10.70	0.1
VLI	3.02	274	eP	00	18.80	0.5
BCK	3.24	73	ePn	00	22.00	0.8
ITM	3.86	280	eP	00	30.50	1.5
VLS	5.11	290	eP	00	45.60	0.4
SOI	8.60	283	P	01	30.20	-1.1
MGR	9.43	295	P	01	41.50	-0.8

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

* OCT 02, 1990 20h 19m 35.83± 0.91s
36.763 N ±23.4km 49.926 E ±14.1km
DEPTH = 33.0km (normol)
4.1mb (2 obs.)
WESTERN IRAN (347)

TEH	1.56	131	ePc	20	01.50	-0.2
TAB	3.15	296	eP	20	24.00	-0.4
MAIO	7.72	91	eP	21	29.00	0.2
			eS	23	45.00	
NUR	28.70	334	eP	25	30.00	-1.6
WATA	30.09	303	iP	25	45.80	1.3
SOTA	30.33	302	iP	25	45.90	-0.6
	0.7s			4.90nm		4.4mb
				i	25	47.50
NB2	34.36	327	P	26	22.80	1.4
	0.6s			0.90nm		3.9mb

S.D. = 1.3 on 7 of 7 obs.

* OCT 02, 1990 20h 20m 23.69± 2.70s
35.344 N ±30.6km 23.458 E ±18.3km
DEPTH = 42.8 ± 20.2 km
4.1mb (1 obs.)
CRETE (370)

ML 3.7 (ATH).

VAM	0.61	84	ePg	20	34.60	-1.4
VLI	1.43	343	ePb	20	46.00	-1.6
NPS	1.76	92	ePb	20	54.00	1.7
ITM	2.21	326	ePb	20	59.70	1.0
ATH	2.63	4	ePn	21	06.00	1.4
KAP	3.04	85	ePn	21	10.60	0.1
SMG	3.60	48	ePg	21	28.80	10.4X
VLS	3.65	322	ePn	21	19.00	-0.1
EVR	3.80	340	ePn	21	21.50	0.2
ARG	3.89	76	ePn	21	22.00	-0.6
HFS	25.60	349	eP	25	49.70	-0.6
	0.6s			3.60nm		4.1mb

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

OCT 02, 1990 20h 45m 19.45± 0.32s
43.548 N ± 3.0km 0.583 W ± 5.3km
DEPTH = 17.7 ± 4.3 km
PYRENEES (378)
ML 3.5 (LDG). Felt (IV) in the
Serres Sainte-Morie area,
France.

OGE	0.39	168	Pg	45	26.68	-0.8
MADF	0.44	203	Pg	45	27.63	-0.8
			Sg	45	34.12	
ESCF	0.47	179	Pg	45	28.00	-0.9
ATE	0.47	191	Pg	45	28.11	-0.8
			Sg	45	34.61	
ELYF	0.48	218	Pg	45	28.76	-0.4
BTH	0.51	147	iPg	45	28.90	-0.6
JAU	0.53	163	Pg	45	29.15	-1.0
ISSF	0.54	197	Pg	45	29.61	-0.6
			Sg	45	37.17	
BOH	0.54	215	Pg	45	29.71	-0.5
			Sg	45	37.21	
LHE	0.64	183	Pg	45	31.01	-0.8
EPF	0.85	127	Pg	45	35.90	0.5
			Sg	45	47.10	
LFF	1.69	34	Pn	45	50.40	2.2
			Pg	45	53.60	
			Sg	46	16.00	

ECRI	1.70	237	eP	45	51.00	2.5
			eS	46	13.00	
LPO	1.71	48	Pn	45	49.60	1.0
			Pg	45	53.60	
			Sg	46	18.00	
RJF	2.31	40	Pn	45	58.20	0.9
			Pg	46	04.80	
			Sg	46	35.20	
CAF	2.35	53	Pn	45	59.00	1.2
			Pg	46	05.40	
			Sg	46	36.80	
ETER	2.82	115	ePn	46	17.50	13.1X
			eSn	46	53.80	
ERDO	2.82	165	ePn	46	12.00	7.5X
ETOR	2.94	202	ePn	46	07.50	1.3
			eSn	46	34.00	
MFF	3.07	6	Pn	46	08.40	0.4
			Pg	46	20.20	
			Sg	46	59.00	
LSF	3.09	28	Pn	46	08.30	0.0
			Sn	46	45.50	
			Sg	46	59.00	
TCF	3.38	35	Pn	46	12.50	0.0
			Pg	46	24.60	
			Sg	47	10.00	
MAF	3.49	39	Pn	46	14.40	0.4
			Pg	46	27.80	
			Sg	47	11.60	
BGF	3.87	38	Pn	46	19.70	0.3
			Pg	46	34.10	
			Sg	47	25.00	
GUD	3.94	224	ePn	46	21.00	0.6
AVF	4.27	39	Pn	46	26.00	0.9
			Sg	47	36.40	
SMF	4.40	44	Pn	46	27.40	0.4
			Sg	47	41.00	
LPF	4.50	356	Pn	46	27.20	-1.0
			Sn	47	17.00	
SSF	4.55	38	Pn	46	28.10	-0.9
			Sn	47	21.50	
			Sg	47	44.80	
LBF	4.71	42	Pn	46	31.00	-0.4
			Sg	47	50.00	
GRR	4.85	358	Pn	46	33.60	0.4
			Sn	47	27.00	
LOR	4.86	39	Pn	46	33.00	-0.5
			Sg	47	54.40	
LDF	5.06	3	Pn	46	36.20	0.0
FLN	5.22	1	Pn	46	37.50	-0.9

S.D. = 1.0 on 32 of 34 obs.

* OCT 02, 1990 22h 46m 48.52s
63.230 N 151.012 W
DEPTH = 13.9km
CENTRAL ALASKA. (1)
<AGS-P>.

HUR	0.67	111	iP	47	01.74	0.2
			eS	47	11.50	
CUT	0.90	157	iP	47	05.87	0.6
RND	0.99	79	iP	47	06.81	-0.2
			eS	47	21.30	
MCK	1.06	61	eP	47	07.91	-0.2
			eS	47	23.75	
SKT	1.28	191	iP	47	11.47	-0.4
NEA	1.60	31	eP	47	16.34	-0.1
			eS	47	36.81	
PWA	1.67	161	iPc	47	17.90	0.5
GHO	1.76	146	eP	47	18.75	0.0
SUA	1.78	176	eP	47	19.65	0.5
			eS	47	44.52	
PLRM	1.86	151	eP	47	20.58	0.4
PMR	1.86	151	iPc	47	20.60	0.4
SML	1.89	138	eP	47	20.51	-0.2
NGC	1.91	197	eP	47	20.49	-0.5
CGLM	1.98	194	eP	47	21.78	-0.3
CCB	2.01	43	eP	47	20.36	-2.0
BGL	2.08	199	eP	47	23.48	0.0
PMS	2.11	161	iPc	47	25.20	1.4
SPU	2.11	194	eP	47	23.85	-0.1
			eS	47	52.65	
CKL	2.13	198	eP	47	24.66	0.4
HDA	2.15	55	eP	47	25.16	0.7
FBA	2.19	39	iPd	47	27.40	2.4
TTA	2.29	265	eP	47	26.56	0.0
DDM	2.38	74	eP	47	29.56	1.9
GLM	2.38	40	eP	47	25.20	-2.5

NKA	2.50	183	eP	47	31.90	2.6
TOA	2.50	115	iPc	47	30.20	0.7
RDT	2.75	195	eP	47	32.53	-0.5
SLKM	2.76	172	eP	47	33.79	0.7
KLU	2.94	124	eP	47	36.37	0.6
GLI	2.99	140	eP	47	37.57	1.2
SVW	3.03	228	ePd	47	35.40	-1.6
VLZ	3.04	132	eP	47	37.65	0.7
IMA	3.07	339	eP	47	34.71	-2.9
DOT	3.15	79	eP	47	43.68	5.0
KNIM	3.28	150	eP	47	40.47	-0.1
CNPM	3.72	182	eP	47	47.54	0.8
GLB	3.81	115	eP	47	48.79	0.8

37 obs. associated

? OCT 02, 1990 23h 35m 48.38± 0.97s
44.375 N ±10.7km 7.299 E ±10.1km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.5 (GEN).

STV	0.13	172	P	35	51.44	-0.2
			S	35	54.00	
ENR	0.17	150	P	35	52.56	0.2
			S	35	55.15	
PZZ	0.19	313	P	35	52.75	0.0
			S	35	55.74	
ROB	0.42	101	P	35	56.87	-0.1
			S	36	02.82	

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

? OCT 03, 1990 00h 06m 02.79± 4.24s
51.344 N ±30.1km 16.020 E ±25.9km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 3.2 (VKA).

KSP	0.53	161	iP	06	13.50	0.0
			iS	06	23.00	
			e	06	32.00	
BRG	1.39	251	iPg	06	28.00	-0.2
			iSg	06	48.00	
PRU	1.65	215	Pn	06	32.00	0.1
			Pg	06	33.80	
			Sn	06	51.40	
			Sg	06	57.80	
CLL	1.89	270	i(Pg)	06	35.50	0.1
			iSg	07	01.00	
			eSg	29	12.00	
KHC	2.71	216	eP	06	47.30	0.0
			ePg	06	54.00	
			Sn	07	21.50	
			Sg	07	31.50	
			e	29	02.60	
			Sg	29	30.70	
MOX	2.87	258	ePg	06	56.00	6.6X
			iSg	07	35.00	
VKA	3.09	176	ePg	07	01.50	9.0X
			eSg	07	45.50	

S.D. = 0.2 on 5 of 7 obs.

? OCT 03, 1990 01h 15m 15.61± 2.14s
25.163 S ±29.4km 173.277 E ±15.4km
DEPTH = 33.0km (normol)
4.5mb (1 obs.) 3.8Msz (1 obs.)
LOYALTY ISLANDS REGION (189)

DZM	6.98	295	iPd	16	58.20	-0.1
			iS	18	15.00	
SVA	8.51	35	iP	17	19.50	0.0
VUN	8.60	35	eP	17	19.20	-1.6
SGE	8.69	31	eP	17	22.50	0.4
MBU	9.60	33	eP	17	35.50	0.8
KRO	9.67	37	eP	17	35.60	0.0
NDE	10.23	35	eP	17	43.70	0.4
ASPA	35.80	264	eP	22	14.10	0.1
	1.4s			8.80nm		4.5mb
Z	18s			0.14um		3.8Msz
				LR	36	33.00
KSP	148.85	331	ePKP	35	04.50	7.4X
BRG	149.81	334	iPKP	35	06.40	7.9X
	1.0s			12.00nm		
CLL	149.84	335	ePKP	35	07.00	8.5X
	1.3s			15.00nm		
PRU	150.24	332	iPKPc	35	07.50	8.3X
KHC	151.30	332	PKP	35	11.00	10.1X
OHK	152.16	312	ePKP	35	12.00	

S.D. = 0.8 on 8 of 14 obs.
 ? OCT 03, 1990 01h 46m 31.39±5.95s
 40.734 N ±11.7km 30.031 E ±40.6km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 2.0 (ISK).

HRT 0.29 288 iPg 46 37.70 0.2
 YLV 0.53 252 iPg 46 42.00 -0.1
 IZI 0.58 227 iPg 46 43.30 0.1
 eSg 46 50.50
 ISK 0.81 295 ePg 46 47.00 0.0
 iSg 46 58.00
 CTT 1.28 289 ePn 46 55.00 -0.2

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

OCT 03, 1990 01h 51m 29.62±0.96s
 40.670 N ± 6.9km 29.954 E ± 7.4km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 2.9 (ISK).

HRT 0.27 305 iPg 51 35.00 -0.2
 GBZT 0.40 287 ePg 51 37.50 -0.4
 iSg 51 44.00
 YLV 0.45 257 iPg 51 38.50 -0.4
 GPA 0.47 144 iPg 51 38.90 -0.2
 eSg 51 45.60
 IZI 0.50 228 iPg 51 39.90 0.2
 iSg 51 47.50
 ISK 0.79 300 iPg 51 44.50 -0.4
 iSg 51 55.00
 CTT 1.25 293 iPn 51 53.00 0.1
 BNT 1.58 259 ePn 51 57.00 -0.8
 EDC 1.63 259 iPn 51 59.50 1.1
 DMK 2.02 305 ePn 52 04.80 0.7
 KGT 2.03 265 iPn 52 04.50 0.2

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

OCT 03, 1990 03h 43m 47.01±0.37s
 42.752 N ± 3.3km 12.784 E ± 6.5km
 DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)

ASS 0.33 344 Pc 43 53.40 -0.5
 eSg 43 58.10
 MNS 0.38 192 Pc 43 54.30 -0.4
 eSg 44 00.20
 AQU 0.61 131 P 43 58.50 -0.8
 eSg 44 09.00
 ARV 0.76 9 Pc 44 00.80 -1.0
 eSg 44 13.60
 AZI 0.90 147 P 44 05.50 1.2
 eSg 44 18.50
 RMP 0.94 184 P 44 04.50 -0.5
 eSg 44 19.50
 RDP 0.99 183 P 44 05.30 -0.6
 eSg 44 21.00
 CRE 1.07 325 P 44 07.70 0.5
 eSg 44 23.80
 RSM 1.20 348 P 44 10.30 1.0
 SDI 1.30 143 P 44 11.50 0.5
 SFI 1.35 330 P 44 12.40 0.6
 eSg 44 29.70
 PGD 1.36 326 P 44 12.20 0.0
 eSg 44 30.70
 DUI 1.65 131 P 44 17.00 0.7
 BDI 2.06 310 P 44 22.50 0.3
 TRI 3.04 13 eP 45 12.40 36.4X
 i 45 30.00
 VOY 3.37 13 e(Pn) 44 40.90 0.0
 e(Sn) 45 22.70
 FVI 3.84 360 P 44 46.40 -1.0

S.D. = 0.8 on 16 of 17 obs.

OCT 03, 1990 03h 54m 05.56±0.31s
 45.647 N ± 3.5km 26.438 E ± 4.3km
 DEPTH = 161.4 ± 3.7 km
 4.2mb (21 obs.)

ROMANIA (358)
 Felt (III) in the Vrancea region.

CVO 0.25 313 iPg 54 26.50 -0.5
 VRI 0.30 42 iPg 54 27.00 0.0
 MLR 0.38 246 iPd 54 26.50 -1.0

ISR 0.52 172 iPg 54 27.50 -1.1
 BAC 0.97 19 iPg 54 24.00 -7.5X
 CMP 1.06 249 iPg 54 34.00 1.8
 MTUR 1.06 247 iPg 54 31.50 -0.8
 BUC 1.26 191 ePg 54 33.00 -0.9
 PTT 1.29 358 iPg 54 34.50 0.3
 CFR 1.29 110 iPg 54 33.00 -1.2
 BUC1 1.33 193 iPg 54 33.50 -1.1
 COZ 1.51 258 iPd 54 36.50 -0.1
 TNR 1.52 271 ePg 54 36.00 -0.5
 TLB 1.55 133 iPd 54 36.50 -0.3
 IAS 1.73 26 iPg 54 40.00 1.3
 DRA 1.82 239 iPd 55 03.00 23.3X
 PSN 2.33 147 iPd 54 48.00 2.4
 iS 55 14.00

SRE 2.49 248 eP 54 47.00 -0.6
 PVL 2.56 198 iPd 54 49.00 0.7
 iS 55 14.00
 BMR 2.86 316 iPg 54 53.00 0.8
 JMB 3.18 178 iPd 54 56.00 -0.2
 BZS 3.38 271 iPg 54 58.00 -0.7
 PGB 3.50 209 eP 55 00.00 -0.3
 VTS 3.84 218 iP 55 05.00 0.2
 iS 55 42.00
 DMK 3.94 166 iPn 55 05.00 -0.1
 KDZ 4.06 191 iPd 55 08.00 0.4
 BEO 4.31 261 eP 55 55.00 44.3X
 MMB 4.51 207 iPd 55 14.00 0.5
 eS 56 14.00

CTT 4.73 161 iPn 55 15.50 -0.8
 ISK 4.96 156 iPn 55 19.50 0.1
 PSZ 5.04 299 eP 55 20.00 -0.5
 SKO 5.15 226 ePn 55 21.50 -0.5
 KGT 5.23 173 iPn 55 21.50 -1.5
 GBZT 5.33 155 iPnd 55 24.50 0.2
 HRT 5.37 153 iPn 55 25.30 0.5
 BNT 5.40 168 iPn 55 25.50 0.3
 EDC 5.40 168 iPn 55 24.50 -0.7
 SPC 5.50 312 iP 55 27.30 0.6
 YLV 5.51 156 iPn 55 27.00 0.2
 IZI 5.75 156 iPn 55 30.00 0.0
 EZN 5.82 181 ePn 55 30.10 -0.7
 SRO 5.99 294 eP 55 34.60 1.6
 GPA 6.06 151 iPn 55 35.10 1.1
 OHR 6.12 224 ePn 55 35.30 0.5
 KRA 6.21 318 iPg 55 36.50 0.5
 i 55 46.70

ZST 6.88 295 eP 55 45.30 0.3
 ALT 7.13 156 iP 55 49.40 1.0
 BBTk 7.43 139 eP 55 53.00 0.5
 KSP 8.53 311 ePg 56 06.80 -0.2
 e 56 17.70
 PRU 9.10 303 eP 56 15.00 0.5
 KHC 9.39 296 P 56 21.20 2.8
 MGR 9.70 239 P 56 22.00 -0.3
 SOI 10.82 229 P 56 37.00 0.0
 PGF 12.91 262 eP 57 11.70 7.4X
 0.7s 16.55nm 4.6mb

SBF 13.62 269 eP 57 18.90 5.6X
 BSF 13.65 286 eP 57 13.40 -0.2
 0.7s 5.50nm 4.0mb
 LPG 13.79 276 eP 57 18.70 3.1X
 0.5s 6.20nm 4.2mb
 LPL 13.81 277 eP 57 18.80 3.1X
 0.4s 4.00nm 4.1mb

HAU 13.95 287 eP 57 17.50 0.1
 FRF 14.25 269 eP 57 26.40 5.3X
 0.9s 11.45nm 4.2mb
 LMR 14.41 268 eP 57 28.20 5.1X
 0.9s 9.85nm 4.2mb
 LRG 14.48 268 eP 57 29.10 5.1X
 NUR 14.93 357 iP 57 28.20 -1.2
 0.7s 13.30nm 4.4mb
 LBF 15.57 283 eP 57 38.40 0.8
 0.7s 6.05nm 4.1mb

LOR 15.64 284 eP 57 38.20 -0.2
 0.9s 9.85nm 4.2mb
 SMF 15.69 282 eP 57 39.00 0.0
 0.9s 6.55nm 4.0mb
 SSF 15.89 283 eP 57 42.50 1.1
 0.8s 6.70nm 4.0mb
 AVF 16.01 282 eP 57 43.00 0.1
 1.0s 13.00nm 4.2mb
 HFS 16.37 337 eP 57 46.60 -0.6
 0.9s 9.30nm 4.1mb

BGF 16.38 282 eP 57 48.20 0.8
 1.1s 23.20nm 4.4mb

MAF 16.61 281 eP 57 50.90 0.7
 TCF 16.85 281 eP 57 54.80 1.7
 LSF 17.32 281 eP 57 58.40 -0.4
 0.6s 5.40nm 4.1mb
 RJF 17.47 278 eP 58 01.20 0.6
 0.5s 4.35nm 4.1mb
 LPO 17.82 276 eP 58 06.20 1.7
 NB2 17.82 335 P 58 04.40 -0.1
 0.7s 6.40nm 4.1mb

LFF 18.08 277 eP 58 06.80 -0.5
 0.5s 6.55nm 4.2mb
 LDF 18.28 289 eP 58 07.50 -1.9
 MFF 18.43 283 eP 58 10.00 -1.0
 0.7s 8.80nm 4.2mb
 FLN 18.52 289 eP 58 09.30 -2.6
 GRR 18.78 288 eP 58 12.50 -2.1
 EPF 18.82 271 eP 58 14.70 -0.6
 0.7s 4.95nm 4.0mb

LPF 18.91 287 eP 58 13.40 -2.7
 SOD 21.78 0 iP 58 52.60 7.9X
 LKO 45.25 227 Pc 02 07.14 -1.3
 0.2s 4.00nm 4.6mb
 TIC 47.44 225 P 02 27.12 1.5
 KIC 47.55 224 Pc 02 27.50 1.1
 LIC 47.81 224 Pc 02 29.48 1.1

S.D. = 1.0 on 77 of 88 obs.

? OCT 03, 1990 04h 18m 10.34±6.52s
 12.907 N ±15.2km 60.299 W ±57.1km
 DEPTH = 33.0km (normol)

WINDWARD ISLANDS (95)
 MD 3.4 (TRN).

SOA 0.95 299 eP 18 27.63 0.3
 eS 18 40.32
 SVV 0.98 295 eP 18 27.77 -0.1
 eS 18 40.42
 SVB 1.00 291 eP 18 27.84 -0.2
 eS 18 40.56
 SLB 1.16 322 eP 18 30.37 -0.1
 eS 18 45.93
 GRW 1.52 241 eP 18 35.65 0.0

S.D. = 0.3 on 5 of 5 obs.

OCT 03, 1990 04h 22m 02.25±0.56s
 36.510 N ± 8.9km 139.352 E ± 7.9km
 DEPTH = 118.1 ± 4.7 km
 4.9mb (3 obs.)

HONSHU, JAPAN (227)

CHJJ 0.54 212 iPd 22 21.10 0.6
 S 22 34.60
 KAKJ 0.73 114 iPd 22 22.60 0.7
 S 22 37.00
 NIJJ 0.78 339 iP+ 22 21.70 -0.6
 S 22 36.20
 MAT 0.92 272 iPd 22 23.10 -0.6
 eS 22 38.00

MTMJ 1.25 274 iPd 22 26.70 -0.4
 IIDJ 1.56 229 iPd 22 31.10 0.5
 S 22 52.30
 TSRJ 2.90 251 iPd 22 48.00 0.2
 S 23 20.90
 WKYJ 3.83 234 P 22 59.50 -0.9
 S 23 41.00
 BJI 18.52 288 eP 26 13.50 1.4
 CHTO 39.56 255 e(P) 29 23.90 0.6
 1.0s 2.75nm 4.0mb

INK 55.60 27 eP 31 27.00 -0.3
 WB5 56.28 186 iPd 31 31.90 -0.8
 ASPA 60.07 186 iPg 31 59.00 0.0
 0.3s 7.20nm 5.2mb
 FORR 67.83 190 eP 32 49.00 -0.4
 0.4s 9.00nm 5.0mb
 ZOBO 148.37 58 PKP 41 38.00 4.4X
 LPB 148.57 58 (PKP) 41 21.00 -12.7X
 CNCB 148.85 58 PKP 41 40.60 6.2X

S.D. = 0.8 on 14 of 17 obs.

% OCT 03, 1990 04h 35m 25.30±0.69s
 42.780 N ± 5.7km 12.796 E ±11.5km
 DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)

ASS 0.31 341 P 35 31.30 -0.4
 eSg 35 36.90
 MNS 0.40 192 P 35 31.90 -1.7

03d 04h

AOU	0.62	133	P	eSg	35	39.20	-1.4
ARV	0.73	8	P	eSg	35	46.70	-1.2
AZI	0.92	149	P	eSg	35	50.00	2.1
RMP	0.97	184	P	eSg	35	58.00	0.7
RDP	1.02	183	P		35	44.00	-0.7
CRE	1.05	324	P		35	46.00	0.9
SDI	1.31	144	P		35	50.50	0.9
PGD	1.35	325	P		35	51.00	0.8

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

* OCT 03, 1990 06h 02m 57.05±0.59s
11.567 N ±10.5km 125.381 E ±16.7km
DEPTH = 33.0km (normal)
4.8mb (11 obs.)

SAMAR, PHILIPPINE ISLANDS (251)

SSE	19.82	349	Pc		07	27.80	0.0
CHTO	26.49	289	e(P)		08	32.10	-1.3
ASPA	35.99	167	eP		09	55.70	-1.4
WARB	37.54	178	eP		10	11.00	0.9
GUN	40.36	300	P		10	34.60	0.5
PKI	40.68	299	P		10	36.80	0.2
KKN	40.84	299	P		10	38.40	0.6
DMN	40.95	299	P		10	39.20	0.5
GKN	41.45	299	P		10	43.00	0.3
FORR	42.25	177	eP		10	48.00	-0.9
STK	45.91	161	eP		11	20.00	1.6
KEV	82.12	340	eP		15	16.00	0.6
SOD	82.76	337	iP		15	19.00	0.2
SUF	84.01	333	iP		15	25.10	-0.1
HFS	90.50	332	eP		15	56.80	0.1
NB2	91.22	334	P		15	58.40	-1.7

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

* OCT 03, 1990 06h 48m 18.57s
63.914 N 148.652 W
DEPTH = 113.8km
CENTRAL ALASKA (1)
<AGS-P>.

MCK	0.22	215	eP		48	34.58	1.6
RND	0.52	190	iP		48	35.77	-0.5
WRH	0.61	23	iP		48	36.59	-0.3
NEA	0.69	345	iP		48	37.05	-0.4
CCB	0.82	26	iP		48	38.14	-0.5
HDA	0.89	56	iP		48	38.98	-0.3
HUR	1.04	206	eP		48	40.25	-0.5
FBA	1.06	20	iPc		48	40.50	-0.5
GLM	1.21	26	eP		48	42.00	-0.7
DDM	1.24	95	eP		48	42.72	-0.3
CUT	1.68	207	iP		48	47.44	-0.8
DOT	2.06	95	eP		48	51.63	-1.3
SML	2.12	176	eP		48	53.05	-0.7
TOA	2.14	147	eP		48	53.46	-0.6
GHO	2.15	183	eP		48	53.84	-0.4
SCM	2.18	163	eP		48	53.57	-1.0
PLRM	2.34	186	eP		48	56.46	-0.1
PMR	2.34	186	iPc		48	57.40	0.8
PWA	2.34	194	eP		48	56.72	0.1
SKT	2.34	215	iP		48	55.35	-1.3
SUA	2.64	202	eP		49	00.76	0.0
PMS	2.71	189	eP		49	01.66	0.1
KLU	2.74	151	eP		48	59.87	-2.1
VLZ	2.99	158	eP		49	03.21	-2.0
NCG	2.99	214	eP		49	04.15	-1.3
IMA	3.04	318	iPc		49	04.80	-1.2
CGLM	3.04	212	eP		49	05.06	-1.0

CRP	3.11	213	eP		49	05.80	-1.2
GLI	3.13	166	eP		49	05.31	-1.8
SPU	3.16	211	eP		49	06.90	-0.7
BGL	3.17	215	eP		49	07.02	-0.8
CKL	3.22	214	eP		49	07.55	-0.9
GLB	3.34	136	eP		49	09.06	-0.9
NKA	3.40	202	eP		49	11.92	1.2
SLKM	3.50	193	iP		49	11.05	-1.1
KNIM	3.60	173	eP		49	12.70	-0.8
RDT	3.78	209	eP		49	15.02	-1.0
SEW	3.84	186	eP		49	15.13	-1.6
RSO	3.96	211	eP		49	16.93	-1.6
BALM	4.11	132	eP		49	18.97	-1.6
SVW	4.28	232	eP		49	22.00	-0.8

41 obs. associated

* OCT 03, 1990 07h 28m 36.82±0.56s
52.791 N ±11.8km 160.554 E ±10.8km
DEPTH = 33.0km (normal)
4.7mb (9 obs.)

OFF EAST COAST OF KAMCHATKA (219)

MAT	22.58	233	eP		33	37.00	1.6
FBA	28.44	45	eP		34	30.80	0.6
MBC	37.21	23	eP		35	47.00	0.9
DAG	50.71	360	iPd		37	35.50	1.0
BW06	57.42	61	eP		38	23.20	-1.4
CHTO	58.12	259	eP		38	30.00	0.6
GUN	59.20	276	P		38	36.30	-1.0
RSSD	59.34	56	ePd		38	37.30	-0.7
KKN	59.65	277	P		38	39.60	-0.7
PKI	59.74	277	P		38	40.40	-0.6
GKN	59.89	277	P		38	41.20	-0.6
DMN	59.89	277	P		38	41.60	-0.4
NUR	61.67	337	eP		39	12.00	18.7X
NB2	63.91	344	P		39	07.40	-0.8
HFS	64.32	342	ePKP		39	09.20	-1.6
CLL	72.73	339	iPd		40	03.40	0.4
BRG	72.94	339	e(P)		40	05.00	0.8
PRU	73.63	338	eP		40	09.20	0.9
KHC	74.66	338	P		40	15.50	1.2
GBA	75.14	273	P		40	17.00	-0.5
WB5	75.86	205	eP		40	21.00	-0.3
ASPA	79.60	205	eP		40	42.50	0.6

S.D. = 1.0 on 21 of 22 obs.

* OCT 03, 1990 07h 44m 08.04s
61.701 N 147.368 W
DEPTH = 29.2km
SOUTHERN ALASKA (2)
<AGS-P>.

SCM	0.13	8	iP		44	13.67	0.0
SML	0.47	284	iP		44	16.83	-1.2
TOA	0.70	54	iP		44	20.99	-0.7
KLU	0.72	106	iP		44	20.79	-1.3
GHO	0.74	276	iP		44	20.81	-1.6
VZW	0.75	148	iP		44	20.99	-1.6
VLZ	0.76	138	iP		44	20.85	-1.7
GLI	0.83	171	iP		44	22.90	-0.8
PLRM	0.85	263	iP		44	22.42	-1.5
PMR	0.85	263	iPc		44	22.40	-1.5
PMS	1.15	247	iP		44	27.78	-0.4
PWA	1.20	269	iP		44	28.06	-0.8
KNIM	1.37	188	eP		44	30.58	-0.7
CUT	1.54	299	iP		44	33.14	-0.6
SUA	1.63	263	eP		44	34.83	-0.4
HUR	1.66	321	eP		44	35.05	-0.5

GLB	1.72	97	eP		44	56.44	-1.0
MTU	1.72	185	eP		44	56.75	0.3
SLKM	1.83	230	eP		44	57.94	-0.1
RND	1.84	339	eP		44	57.62	-0.7
SEW	1.90	213	eP		44	58.83	-0.1
SKT	1.99	280	iP		44	60.03	-0.4
NKA	2.10	245	eP		44	63.40	1.5
MCK	2.16	341	eP		44	62.73	-0.1
DDM	2.21	18	eP		44	64.13	0.7
CGLM	2.26	262	iP		44	63.84	-0.4
SPU	2.31	259	iP		44	64.35	-0.6
NCG	2.31	265	iP		44	64.67	-0.3

eS

CRP	2.34	261	eP		44	64.97	-0.4
TGL	2.39	111	eP		44	65.87	-0.3
CKL	2.44	260	eP		44	66.02	-0.8
BGL	2.45	262	eP		44	66.22	-0.8
DOT	2.48	37	eP		44	67.64	0.3
BALM	2.51	103	eP		44	67.05	-0.8
NNL	2.54	231	eP		44	68.56	0.4
RDT	2.69	247	eP		44	69.26	-1.1
HDA	2.72	4	eP		44	50.44	-0.3
WRH	2.80	354	eP		44	50.54	-1.2
RSO	2.90	247	eP		44	52.14	-1.2
CNPM	2.90	223	eP		44	52.26	-0.9
HOM	2.94	228	eP		44	53.10	-0.6
CCB	2.96	356	eP		44	52.81	-1.3
FBA	3.22	357	iPc		44	57.60	-0.1
PDB	3.86	243	eP		45	05.43	-1.4
SVW	4.01	265	iPc		45	06.70	-2.4
TTA	4.22	291	iPc		45	09.20	-2.8
IMA	5.19	330	iPd		45	23.80	-2.1

47 obs. associated

? OCT 03, 1990 08h 11m 48.52±3.77s
16.476 N ±31.2km 99.633 W ±18.9km
DEPTH = 33.0km (normal)
NEAR COAST OF GUERRERO, MEXICO (5B)

ACX	0.45	331	iP		11	58.00	-0.4
III	1.90	5	eP		12	06.50	-0.8
PPM	2.75	20	eP		12	18.50	-0.8
IIJ	2.83	26	eP		12	42.00	0.3
OXX	2.85	77	iP		12	32.00	-0.6
IIJ	3.24	358	(P)		12	32.00	-0.6
MRX	3.54	335	(P)		12	33.00	0.1
			(S)		13	05.00	1.5
			(S)		13	21.50	7.5X
			(S)		13	29.00	

S.D. = 1.1 on 6 of 7 obs.

* OCT 03, 1990 08h 48m 59.32±0.66s
72.541 N ±10.1km 1.746 E ±10.7km
DEPTH = 10.0km (geophysicist)
4.4mb (7 obs.) 3.2Msz (1 obs.)
NORWEGIAN SEA (642)

TRO	6.29	109	iP		50	33.70	-0.6
DAG	6.86	318	iPc		50	40.00	-2.3
KEV	8.60	97	iP		51	51.40	0.0
SOD	9.92	1					

SSF 25.57 177 eP 54 28.50 -1.1
 AVF 25.84 177 eP 54 31.60 -0.5
 1.0s 8.00nm 4.4mb
 TCF 26.34 179 eP 54 35.00 -1.7
 1.0s 8.00nm 4.4mb
 LSF 26.37 180 eP 54 35.00 -2.0
 MAF 26.40 179 eP 54 35.80 -1.5
 INK 36.36 334 eP 56 05.00 0.4
 FFC 42.69 304 eP 56 59.00 1.7
 0.8s 15.00nm 4.8mb
 SES 48.88 308 eP 57 48.00 1.5
 S.D. = 1.5 on 21 of 23 obs.

? OCT 03, 1990 09h 05m 24.39±1.21s
 21.324 S ±11.8km 67.801 W ±16.6km
 DEPTH = 33.0km (normal)

CHILE-BOLIVIA BORDER REGION (124)

ANT 3.39 225 eP 06 16.20 0.0
 IS 06 47.50
 CNCB 4.49 358 P 06 33.00 0.5
 LPB 4.77 357 P 06 37.00 0.7
 ZOBO 5.04 356 P 06 39.00 -1.2
 ARE 5.97 324 eP 06 44.00 -9.1X
 IS 07 47.00
 SIV 8.29 51 iPc 07 25.40 0.0
 S.D. = 1.1 on 5 of 6 obs.

OCT 03, 1990 10h 07m 21.09±0.87s
 23.345 N ±12.9km 94.325 E ±10.3km
 DEPTH = 68.4 ± 12.7 km
 3.9mb (2 obs.)

BURMA-INDIA BORDER REGION (294)

CHG 6.24 135 ePd 08 52.60 -0.1
 0.8s 12.87nm 4.4mb X
 CHTO 6.24 135 ePn 08 52.90 0.2
 BDT 7.49 143 eP 09 06.20 -3.7X
 GUN 8.87 303 P 09 29.80 0.4
 PKI 9.09 299 P 09 32.40 0.1
 KKN 9.29 300 P 09 34.60 -0.3
 DMN 9.35 299 P 09 35.60 -0.2
 GKN 9.89 300 P 09 42.80 -0.3
 GBA 18.70 242 Pd 11 36.90 0.2
 0.6s 3.20nm 3.7mb
 WB5 58.06 134 eP 17 09.20 -0.5
 NB2 66.56 328 P 18 06.20 0.4
 0.5s 0.90nm 4.0mb
 S.D. = 0.4 on 10 of 11 obs.

? OCT 03, 1990 10h 14m 42.86±3.01s
 51.184 N ±20.4km 15.196 E ±18.5km
 DEPTH = 10.0km (geophysicist)

POLAND (548)
 ML 3.7 (VKA).

BRG 0.85 249 iPg 15 00.20 1.0
 ISg 15 20.20
 PRU 1.27 199 Pg 15 06.50 0.1
 Sn 15 23.00
 Sg 15 29.80
 CLL 1.38 276 iPn 15 07.60 -0.6
 iPg 15 11.00
 eSg 15 38.00
 KHC 2.30 207 ePn 15 20.00 -1.5
 Pg 15 25.60
 Sg 16 02.00
 MOX 2.33 258 ePg 15 31.00 9.2X
 ISg 16 11.00
 WET 2.53 217 ePn 15 24.30 -0.3
 GRF 2.95 241 ePn 15 31.10 0.5
 ePg 15 40.90
 eSg 16 29.00
 VKA 3.01 166 iPgd 15 32.20 0.7
 ISg 16 15.60
 ZST 3.24 157 eP 16 15.30 40.6X
 HFS 9.01 355 eP 17 59.00 63.1X
 0.5s 3.10nm
 S.D. = 1.1 on 7 of 10 obs.

OCT 03, 1990 10h 33m 17.81±1.18s
 41.389 N ±9.1km 29.220 E ±7.0km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 2.7 (ISK).

ISK 0.34 201 iPg 33 24.90 0.0

GBZT 0.62 164 ePg 33 30.00 -0.3
 CTT 0.64 248 iPg 33 30.30 -0.4
 HRT 0.66 149 iPg 33 30.30 -0.7
 YLV 0.83 172 iPg 33 33.80 -0.1
 IZI 1.07 170 iPg 33 38.10 0.1
 DMK 1.18 292 iPn 33 39.70 -0.1
 KCT 1.31 210 iPn 33 42.30 0.2
 GPA 1.38 143 iPn 33 43.80 0.8
 BNT 1.43 224 iPn 33 44.30 0.5
 S.D. = 0.5 on 10 of 10 obs.

? OCT 03, 1990 10h 47m 38.23±3.71s
 2.590 S ±8.6km 79.402 W ±58.3km
 DEPTH = 33.0km (normal)

NEAR COAST OF ECUADOR (105)

TUNG 1.51 39 iP 48 04.00 0.5
 S 48 25.10
 VC1 2.18 27 iP+ 48 13.50 0.1
 OTO 2.53 20 eP 48 18.40 0.1
 GGP 2.53 19 eP 48 18.70 0.2
 S 48 48.60
 OUR 2.56 20 eP 48 18.30 -0.4
 YANA 2.60 19 eP 48 19.30 0.0
 S 48 50.00
 ANGL 2.87 40 eP 48 32.10 9.1X
 CAYA 3.01 28 P 48 25.00 -0.2
 COTA 3.09 20 P 48 26.40 0.0
 ZOBO 17.55 141 P 51 43.00 0.3
 LPB 17.76 142 eP 51 48.00 2.8
 CNCB 18.05 142 P 51 48.00 -0.9
 SIV 22.43 128 P 52 33.00 -2.8
 S.D. = 1.4 on 12 of 13 obs.

% OCT 03, 1990 10h 56m 16.33±0.91s
 39.069 N ±7.4km 27.671 E ±9.4km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.7 (ISK).

IZM 0.74 206 ePg 56 31.00 0.1
 eSg 56 43.00
 DST 0.92 54 iPn 56 33.70 -0.2
 EDC 1.28 7 iPn 56 40.50 0.4
 EZN 1.29 306 ePn 56 40.00 -0.2
 BNT 1.30 8 ePn 56 40.30 -0.1
 S.D. = 0.3 on 5 of 5 obs.

* OCT 03, 1990 11h 29m 20.21±1.33s
 41.467 N ±17.0km 19.948 E ±10.6km
 DEPTH = 10.0km (geophysicist)

ALBANIA (391)

ML 2.5 (TTG).

ULC 0.72 314 ePg 29 33.00 -1.4
 eSg 29 44.50
 OHR 0.73 119 iPgc 29 34.40 -0.2
 0.8s 147.00nm
 ISg 29 46.50
 Lg 29 57.10
 TTG 1.09 332 ePg 29 40.00 -0.7
 eSg 29 56.70
 BDV 1.17 315 ePg 29 41.50 -0.5
 eSg 30 00.00
 SKD 1.23 65 iPg 29 43.00 0.0
 0.5s 250.00nm
 ISg 29 59.50
 Lg 30 02.30
 HCY 1.46 313 ePg 29 47.60 1.0
 eSg 30 09.00
 NKY 1.52 333 ePg 29 47.60 0.1
 eSg 30 11.00
 BRY 1.77 324 ePn 29 53.00 1.8
 eSn 30 19.00
 S.D. = 1.2 on 8 of 8 obs.

? OCT 03, 1990 12h 28m 54.65±1.59s
 44.503 N ±15.4km 7.233 E ±9.8km
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)

ML 1.4 (GEN).

PZZ 0.09 271 P 28 57.44 0.0
 S 28 59.69
 STV 0.27 166 P 29 00.21 -0.1
 S 29 04.62
 ENR 0.31 154 P 29 01.23 0.1

ROB 0.50 114 P 29 05.64
 S 29 04.82 0.0
 S 29 11.18
 S.D. = 0.2 on 4 of 4 obs.

& OCT 03, 1990 12h 57m 08.90s
 40.500 N 126.978 W
 DEPTH = 6.0km
 OFF COAST OF NORTHERN CALIFORNIA (34)
 <BRK>. ML 4.4 (BRK).

FHC 2.30 81 ePc 57 44.90 -3.1
 eS 58 11.50
 WDC 3.38 87 ePc 58 00.40 -2.9
 i 58 01.30
 LTCM 3.72 93 eP 58 05.50 -2.6
 NWRM 3.77 121 eP 58 05.00 -3.8
 LBFM 3.95 76 eP 58 09.50 -2.0
 MIN 4.10 90 ePd 58 10.50 -3.2
 ORV 4.31 101 ePc 58 13.00 -3.5
 ZSP 4.47 123 eP 58 14.50 -4.2
 BRK 4.51 124 ePc 58 14.80 -4.4
 BKS 4.52 124 iPd 58 15.30 -4.2
 eS 59 06.30
 PCC 4.67 128 iPd 58 17.20 -4.4
 GCC 5.21 130 ePc 58 24.50 -4.7
 ARN 5.28 125 eP 58 26.00 -4.4
 CMB 5.68 114 eP 58 34.20 -1.7
 SAO 5.72 129 iP 58 31.20 -5.2
 PRS 6.06 132 eP 58 36.20 -5.0
 FRI 6.67 119 eP 58 46.50 -3.4
 TNP 7.94 105 eP 59 05.70 -2.2
 ALD 17.14 102 e(P) 01 11.50 0.7
 0.9s 1.89nm 3.2mb
 19 obs. associated

OCT 03, 1990 13h 13m 43/34±0.97s
 30.732 S ±5.6km 71.787 W ±11.6km
 DEPTH = 10.0km (geophysicist)

NEAR COAST OF CENTRAL CHILE (135)

JACH 2.19 153 iPc 14 20.20 -0.3
 i 14 46.00
 RTBS 2.20 115 iPd 14 20.50 0.0
 IHA 2.29 177 eP 14 25.50 3.8X
 eS 14 54.00
 ROCH 2.33 164 iPd 14 23.00 0.5
 IS 14 52.00
 PEL 2.58 159 iPc 14 26.00 0.1
 IS 14 54.50
 RTCB 2.67 107 IP 14 21.80 -5.5X
 LCCH 2.74 176 iPc 14 28.00 -0.2
 i 14 58.00
 ZON 2.79 108 eP 14 30.00 1.1
 SAN 2.88 161 eP 14 29.00 -1.1
 i 15 06.00
 FCH 2.88 154 eP 14 31.70 1.2
 i 15 07.00
 RTCV 3.00 113 ePc 14 31.50 -0.3
 TACH 3.00 166 iP 14 32.40 0.6
 i 15 04.20
 PCH 3.08 160 eP 14 33.20 0.3
 IS 15 10.00
 LNV 3.23 174 iPc 14 34.20 -0.8
 IS 15 13.50
 MDZ 3.29 131 iPc 14 35.20 -0.9
 e 14 44.00
 e 14 50.50
 CHCH 3.33 164 eP 14 36.70 0.1
 i 15 10.00
 ZOBO 14.78 14 eP 17 16.00 1.2
 SIV 17.65 36 P 17 49.40 -1.5
 PPD 20.26 70 (P) 18 32.00 10.3X
 S.D. = 0.9 on 16 of 19 obs.

& OCT 03, 1990 14h 00m 52.79s
 48.218 N 121.322 W
 DEPTH = 1.1km
 WASHINGTON (29)
 <SEA>. CL 2.6 (SEA).

RPW 0.26 331 Pd 00 57.43 -0.6
 S 01 00.98
 JCW 0.41 267 Pc 01 00.52 -0.4
 HTW 0.51 216 Pd 01 02.36 -0.7
 S 01 09.38
 CMW 0.57 291 Pd 01 03.15 -1.0

03d 14h

BLH	0.61	232	P	01 11.70	-0.5
			S	01 04.48	-0.5
			S	01 12.96	
NLW	0.67	182	Pc	01 05.24	-1.0
MBW	0.68	326	Pc	01 04.59	-1.9
			S	01 13.81	
OHW	0.82	278	P	01 07.71	-1.3
RMW	0.83	203	P	01 07.89	-1.4
ETW	0.91	132	P	01 09.40	-1.5
SPW	0.91	223	P	01 10.33	-0.6
PGW	0.94	246	P	01 10.87	-0.7
CBSW	0.95	115	Pc	01 10.23	-1.6
WTV	1.06	119	Pc	01 12.20	-1.4
DHW2	1.07	102	P	01 12.01	-1.7
MCW	1.11	295	P	01 13.02	-1.4
TWW	1.12	164	P	01 14.16	-0.6
BLN	1.13	260	P	01 13.07	-1.7
TBM	1.16	155	P	01 14.17	-1.1
GMW	1.19	236	P	01 14.33	-1.5
HDW	1.30	245	P	01 15.61	-2.1
FMW	1.31	191	P	01 16.15	-1.8
GHW	1.34	209	P	01 17.13	-1.2
RVC	1.35	199	P	01 16.79	-1.8
SAW	1.39	111	P	01 18.15	-1.1
EBG	1.40	158	P	01 18.94	-0.6
REMR	1.44	194	P	01 18.52	-1.7
EPH	1.45	126	P	01 19.61	-0.6
LON	1.51	193	P	01 19.45	-1.6
NAC	1.52	167	P	01 20.88	-0.4
WPW	1.53	186	P	01 20.20	-1.2
VTG	1.55	144	P	01 21.31	-0.3
STW	1.57	268	P	01 19.78	-2.1
GLK	1.67	187	P	01 22.54	-0.8
LMW	1.68	203	P	01 22.52	-1.1
BVW	1.71	145	P	01 23.76	-0.2
CPW	1.75	225	Pd	01 23.16	-1.3
MXC	1.78	157	P	01 25.47	0.5
APW	1.81	210	P	01 24.20	-1.1
WAH2	1.89	140	P	01 27.55	1.1
CRF	1.91	136	P	01 27.84	1.0
MDW	1.92	146	P	01 27.10	0.1
OD2	1.95	114	P	01 28.08	0.8
BRVW	1.96	152	P	01 28.51	1.0
CZM	1.96	205	P	01 26.92	-0.6
ERK	2.04	200	P	01 28.43	-0.3
GBL	2.06	141	P	01 31.03	2.1
ASR	2.08	185	P	01 29.92	0.6
DPW	2.12	98	P	01 29.82	-0.1
CDFW	2.16	194	P	01 31.01	0.5

50 obs. associated

* OCT 03, 1990 14h 05m 05.70s
37.845 N 121.988 W
DEPTH = 2.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.0 (BRK). Felt at
Alamo.

BKS	0.20	279	eP	05 09.70	0.0
			iS	05 13.20	
BRK	0.22	278	iPd	05 09.90	-0.2
			iS	05 13.20	
ZSP	0.23	295	eP	05 09.50	-0.9
			iS	05 13.40	
PCC	0.46	222	eP	05 14.90	-0.1
			iS	05 21.80	
ARN	0.61	144	eP	05 18.70	0.8
CMB	1.28	81	eP	05 28.50	-1.7
			eS	05 46.30	

6 obs. associated

* OCT 03, 1990 16h 09m 47.91±0.74s
58.869 S ±13.4km 24.577 W ±11.1km
DEPTH = 33.0km (normal)
4.9mb (4 obs.) 4.3Msz (1 obs.)
SOUTH SANDWICH ISLANDS REGION (153)

SPA	31.30	180	iPc	16 07.40	0.5
	1.1s		17.86nm		4.8mb
BMA	38.75	330	eP	17 11.80	1.1
VAO	39.23	326	eP	17 15.50	0.8
			e	17 58.70	
PCH	39.43	289	eP	17 17.50	1.2
JFO	39.47	332	eP	17 17.80	1.1
			e	17 19.80	
LNW	39.60	288	iPc	17 16.50	-1.1
TACH	39.61	289	eP	17 18.00	0.3

PEL	39.90	290	iPd	17 20.00	-0.2
PPD	41.48	321	eP	17 33.10	0.0
SBA	43.35	183	P	17 51.90	4.1X
BAO	46.51	328	Pc	18 14.10	0.2
SLR	49.31	71	iPc	18 22.50	-13.2X
SIV	50.53	312	Pc	18 42.60	-2.3
SOB1	51.09	339	ePc	18 49.10	0.0
			i	18 51.90	
CNCB	52.62	304	P	19 01.00	-0.3
LPB	52.92	304	eP	19 03.00	-0.4
BUL	54.20	68	eP	19 12.10	-0.3
KRI	57.52	67	eP	19 44.10	7.7X
LIC	66.75	21	P	20 38.60	0.8
	0.7s		8.00nm		5.0mb
Z	20s		0.19um		4.3Msz
KIC	66.94	22	P	20 39.82	0.8
	0.7s		7.50nm		4.9mb
TIC	67.16	21	P	20 41.00	0.5
	0.7s		8.50nm		5.0mb
LKO	69.89	20	P	20 54.68	-2.7
MBC	147.14	334	ePKPd	29 28.50	3.6X
	0.7s		12.00nm		
INK	148.86	317	ePKPc	29 32.50	4.7X
	0.6s		16.00nm		
BJI	148.91	110	ePKP	29 34.00	5.3X
TOA	151.89	302	ePKP	29 42.20	9.6X
	0.6s		28.10nm		
FBA	153.41	307	ePKP	29 44.70	10.1X
ANM	160.82	304	ePKP	29 58.30	14.6X

S.D. = 1.1 on 19 of 28 obs.

* OCT 03, 1990 16h 45m 50.03s
62.308 N 150.954 W
DEPTH = 74.8km
CENTRAL ALASKA (1)
<AGS-P>.

CUT	0.33	73	iP	46 01.51	-0.6
SKT	0.43	220	iP	46 02.24	-0.6
PWA	0.83	142	iP	46 06.62	-0.4
SUA	0.85	173	iP	46 07.01	-0.4
			eS	46 20.35	
HUR	0.91	42	iP	46 06.91	-1.0
			eS	46 19.88	
NCG	1.07	213	eP	46 09.19	-0.9
GHO	1.10	118	eP	46 10.04	-0.3
			eS	46 26.27	
CGLM	1.12	207	eP	46 09.79	-0.9
PLRM	1.12	129	eP	46 09.94	-0.6
			eS	46 26.24	
PMR	1.12	129	iPc	46 09.90	-0.6
CRP	1.19	209	eP	46 10.94	-0.7
			eS	46 27.87	
SPU	1.25	205	eP	46 11.49	-0.8
BGL	1.25	214	eP	46 11.94	-0.4
PMS	1.26	148	eP	46 11.73	-0.6
			eS	46 29.62	
CKL	1.30	211	eP	46 12.33	-0.6
SML	1.33	111	eP	46 12.83	-0.5
			eS	46 31.69	
RND	1.46	40	eP	46 13.83	-1.3
NKA	1.58	185	eP	46 18.92	2.4
SCM	1.77	104	eP	46 18.05	-1.3
SLKM	1.84	169	eP	46 19.33	-0.9
RDT	1.88	202	eP	46 19.88	-0.8
RSO	2.04	206	eP	46 22.84	-0.3
TOA	2.25	93	iPd	46 25.10	-0.8
NNL	2.28	184	eP	46 26.98	0.8
SEW	2.33	161	eP	46 24.82	-2.0
GLI	2.34	126	eP	46 25.10	-1.9
TTA	2.42	287	iPd	46 26.20	-2.0
VZW	2.44	119	eP	46 26.85	-1.7
VLZ	2.50	116	eP	46 26.76	-2.4
KNIM	2.50	140	eP	46 26.16	-3.2
KLU	2.52	107	eP	46 27.43	-2.2
WRH	2.53	29	eP	46 27.43	-2.2
SVV	2.53	244	iPd	46 27.90	-1.8
CCB	2.74	30	eP	46 30.30	-2.3
DDM	2.75	55	eP	46 33.00	0.2
HDA	2.77	39	eP	46 31.31	-1.7
CNPM	2.80	183	eP	46 33.06	-0.3
MTU	2.83	144	eP	46 33.69	-0.1
FBA	2.96	27	eP	46 33.70	-1.9
PDB	2.98	213	eP	46 34.26	-1.6
GLB	3.49	101	eP	46 40.64	-2.5
IMA	3.96	344	iPd	46 47.20	-2.5
BALM	4.30	103	eP	46 51.18	-3.3

43 obs. associated

* OCT 03, 1990 17h 11m 06.95±1.06s
23.943 S ±11.6km 174.727 W ±16.5km
DEPTH = 33.0km (normal)
4.9mb (8 obs.)

TONGA ISLANDS REGION (174)

VUN	8.68	312	eP	13 12.80	-0.4
SGE	9.34	311	eP	13 23.50	1.1
RAR	14.08	82	P	14 16.00	-10.2X
			S	16 36.00	
DZM	17.44	272	iPc	15 11.10	1.7
PGZ	18.27	202	eP	15 22.30	2.9X
THZ	20.55	207	eP	15 46.80	1.5
			eS	19 17.70	
KHZ	20.84	205	eP	15 48.40	0.2
	0.7s		44.00nm		5.0mb
LTZ	21.65	207	eP	15 57.20	0.7
CTA	36.30	268	iPd	18 08.20	-1.4
	0.7s		9.59nm		4.8mb
ASPA	46.78	259	eP	19 33.50	-1.9
	0.7s		9.80nm		4.9mb
WB5	47.20	265	eP	19 36.70	-2.1
FORR	50.77	249	eP	20 05.00	-1.1
	0.4s		9.00nm		5.1mb
MTN	52.28	272	eP	20 15.00	-2.7X
	0.5s		10.00nm		5.0mb
WARB	52.77	254	eP	20 20.00	-1.3
	0.3s		2.00nm		4.6mb
NANU	63.46	256	eP	21 37.00	0.8
MAT	74.77	322	(P)	22 47.00	1.4
ALQ	87.24	50	eP	23 50.80	-0.9
	1.0s		7.75nm		4.9mb
CHG	94.24	289	eP	24 26.80	2.4X
CHTD	94.24	289	eP	24 26.00	1.6
	0.9s		3.41nm		4.8mb
LWI	145.35	225	iPKPc	30 44.20	0.0
KRA	151.53	340	ePKP	30 58.00	5.5X
	0.7s		17.00nm		
KSP	151.82	345	iPKPd	30 59.20	6.3X
			i	31 03.20	
			i	31 11.20	
WTS	151.97	358	ePKP	30 59.50	6.5X
	0.8s		15.00nm		
CLL	152.03	350	iPKPd	30 59.20	6.0X
	1.4s		19.00nm		
			i	31 11.70	
BRG	152.29	348	iPKPd	31 00.00	6.4X
	0.8s		14.00nm		
			i	31 03.80	
PRU	153.01	347	ePKP	31 01.50	6.9X
			e	31 05.80	
ENN	153.22	359	ePKP	31 02.00	7.1X
	1.0s		12.00nm		
KHC	154.02	347	ePKP	31 04.40	8.3X

S.D. = 1.4 on 16 of 28 obs.

* OCT 03, 1990 17h 34m 06.94±1.13s
40.147 N ±10.6km 25.138 E ±8.3km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 2.7 (ATH).

EZN	0.97	109	iPg	34 25.40	0.1
			iSg	34 38.70	
RDO	1.04	17	ePb	34 26.00	-0.6
			eSb	34 39.00	
PLG	1.31	280	ePb	34 31.00	-0.3
KDZ	1.52	8	iP	34 34.00	-0.1
			iS	34 52.00	
RZN	1.57	348	iP	34 36.00	0.9
			iS	37 57.00	
KKB	2.32	319	iPd	34 51.00	5.3X
			eS	35 20.00	

S.D. = 0.8 on 5 of 6 obs.

OCT 03, 1990 18h

BTH 0.18 45 iPg 02 50.50 -1.6
 OGE 0.19 339 Pg 02 51.02 -1.2
 LHE 0.19 245 Pg 02 52.91 0.5
 ATE 0.25 292 Pg 02 53.04 -0.4
 ISSF 0.31 277 Pg 02 54.58 0.1
 MADF 0.35 295 Pg 02 54.99 -0.4
 BOH 0.47 283 Pg 02 57.40 -0.3
 ELYF 0.48 292 Pg 02 57.74 -0.1
 EPF 0.53 86 Pg 02 57.90 -0.9
 LPD 2.03 33 Pg 03 25.00 2.3
 LFF 2.11 22 Pg 03 26.40 2.6
 CAF 2.62 42 Pg 03 35.60 4.5X
 RJF 2.68 30 Pg 03 35.60 3.6X
 MAF 3.85 32 Pg 03 58.60 10.0X
 BGF 4.24 32 Pg 04 05.20 11.1X
 S.D. = 1.4 on 13 of 17 obs.

? OCT 03, 1990 18h 20m 35.99±1.01s
 31.096 N ±11.7km 78.557 E ± 8.2km
 DEPTH = 33.0km (normal)
 4.4mb (1 obs.)
 TIBET-INDIA BORDER REGION (305)

NDI 2.67 206 iPnc 21 16.60 -1.0
 GKN 6.13 119 P 22 07.20 0.4
 DMN 6.69 120 P 22 14.80 0.1
 KKN 6.72 118 P 22 15.00 -0.2
 PKI 6.94 119 P 22 17.60 -0.6
 GUN 7.13 115 P 22 20.80 -0.1
 QUE 10.04 268 eP 23 07.00 5.8X
 HYB 13.62 180 eP 23 50.50 1.3
 HFS 51.15 324 eP 29 37.70 0.2
 S.D. = 0.8 on 8 of 9 obs.

* OCT 03, 1990 18h 21m 02.25±0.78s
 17.823 S ±16.0km 167.673 E ±10.2km
 DEPTH = 33.0km (normal)
 4.3mb (3 obs.) 3.8Msz (1 obs.)
 VANUATU ISLANDS (186)

BKM 0.57 74 iP 21 13.50 -0.3
 PVC 0.61 82 iPc 21 15.00 0.5
 DZM 4.38 195 iPc 22 07.20 -1.1
 CTA 20.38 260 eP 25 46.00 7.0X
 BWA 23.85 222 eP 26 15.20 1.7
 CAN 24.07 220 eP 26 24.70 9.1X
 STK 27.40 234 iPc 26 47.40 0.6
 WBS 31.56 261 eP 27 25.10 1.0
 ASPA 32.06 254 eP 27 26.80 -1.7
 Z 22s 0.23um 3.8Msz
 BJI 74.91 322 eP 32 41.00 -0.7
 S.D. = 1.3 on 8 of 10 obs.

OCT 03, 1990 19h 24m 36.03±0.43s
 37.077 N ± 4.1km 29.403 E ± 4.6km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 4.0 (ISK), 3.9 (ATH).

KSL 0.97 171 ePn 24 53.00 -1.4
 BCK 1.02 68 iPn 24 55.20 -0.2
 KHL 1.25 4 iPn 24 59.70 0.4
 ARG 1.34 230 ePn 25 01.50 0.8
 ALT 2.05 16 ePn 25 12.40 1.3
 SMG 2.14 288 ePn 25 12.50 0.3

I2M 2.15 309 iPn 25 11.60 -0.8
 KAP 2.36 230 ePn 25 16.00 0.6
 DST 2.60 347 ePn 25 17.40 -1.4
 PPCY 3.24 132 eP 25 28.20 0.4
 IZI 3.26 1 ePn 25 28.50 0.3
 PRK 3.28 312 ePn 25 28.50 0.0
 EZN 3.66 320 iPn 25 33.50 -0.3
 BBTk 3.82 43 eP 25 36.00 -0.2
 CSS 3.82 122 eP 25 36.50 0.3
 S.D. = 0.8 on 15 of 15 obs.

OCT 03, 1990 19h 41m 49.15±0.34s
 40.325 N ± 4.2km 25.762 E ± 3.3km
 DEPTH = 15.3 ± 3.9 km
 AEGEAN SEA (365)
 MD 3.9 (ISK), ML 3.5 (ATH).

ALN 0.61 21 ePd 42 01.00 0.0
 EZN 0.66 139 iPg 42 01.30 -0.5
 PRK 1.15 160 ePb 42 10.00 -0.1
 KDZ 1.35 349 iPc 42 13.00 -0.4
 OUR 1.36 271 ePd 42 11.88 -1.6
 RZN 1.58 330 iPc 42 17.00 0.3
 EDC 1.61 89 iPn 42 17.50 0.5
 BNT 1.65 88 iPn 42 19.70 2.1
 DIM 1.73 354 iPd 42 19.00 0.2
 PLG 1.77 272 ePb 42 13.00 -6.4X
 SRS 1.83 296 ePc 42 21.48 1.2
 SOH 1.90 286 ePc 42 24.40 3.1X
 KCT 1.99 91 iPn 42 22.70 0.2
 MMB 1.99 310 ePd 42 22.00 -0.6
 DMK 2.12 45 ePn 42 23.00 -1.5
 THE 2.16 279 iPc 42 27.00 2.1
 CTT 2.19 67 ePn 42 24.70 -0.7
 NEO 2.20 243 ePb 42 05.00 -20.7X
 JMB 2.23 16 iPc 42 41.00 15.0X
 I2M 2.25 148 ePn 42 26.10 -0.3
 DST 2.32 107 ePn 42 27.40 0.1
 LIT 2.52 266 iPc 42 30.00 -0.1
 PGB 2.53 332 eP 42 30.00 -0.3
 KKB 2.54 308 iP 42 30.00 -0.5
 ISK 2.61 72 ePn 42 31.00 -0.5
 GRG 2.63 285 ePc 42 32.64 0.8
 YLV 2.77 84 iPn 42 35.70 1.9
 IZI 2.84 89 iPn 42 35.20 0.5
 CBZT 2.84 79 ePg 43 19.50 44.7X
 PVL 2.91 354 iPd 42 35.00 -0.6
 VTS 2.97 321 iP 42 37.00 0.4
 HRT 3.02 79 ePn 42 42.00 4.8X
 FNA 3.37 279 iPc 42 42.00 -0.3
 KHL 3.54 123 ePn 42 45.00 0.3
 ALT 3.59 109 ePn 42 45.90 0.5
 SKO 3.65 298 ePn 42 49.50 3.2X
 OMR 3.85 283 ePn 43 02.00 12.9X
 MLR 5.17 1 eP 43 12.00 4.2X
 VRI 5.59 7 ePc 43 15.00 1.4
 BZS 6.10 331 ePc 43 18.00 -2.8X
 S.D. = 1.0 on 30 of 40 obs.

* OCT 03, 1990 21h 29m 10.67±0.98s
 13.937 N ±13.0km 93.093 W ±10.7km
 DEPTH = 33.0km (normal)
 4.1mb (2 obs.)
 OFF COAST OF CHIAPAS, MEXICO (68)

TPX 1.25 40 iP 29 31.42 -0.6
 SCX 2.82 9 iP 29 55.63 1.3
 OXX 4.69 312 (P) 30 22.00 0.8
 EVV 4.99 335 (P) 29 46.05 -39.2X
 LVVM 6.60 331 (P) 30 48.45 0.5

OCT 03, 1990 22h 52m 55.08±1.30s
 50.372 N ±23.8km 18.814 E ± 9.5km
 DEPTH = 10.0km (geophysicist)
 POLAND (548)
 ML 3.2 (KRA), 3.0 (VKA).

KRA 0.79 113 ePg 53 10.10 -0.3
 SPC 1.50 141 iPn 53 22.70 0.4
 KSP 1.67 287 ePn 53 24.80 0.3
 ZST 2.45 208 e(P) 53 57.30 21.6X
 SRO 2.58 188 eP 53 45.60 8.0X
 VKA 2.67 219 iPnc 53 47.30 8.5X
 PRU 2.77 264 Pn 53 40.30 0.0
 BRG 3.14 281 ePg 53 54.00 8.5X
 KHC 3.62 252 Pn 53 52.00 -0.3
 CLL 3.80 287 ePg 54 09.00 14.1X
 GRF 4.94 265 e(Pg) 55 11.00 59.9X
 S.D. = 0.5 on 5 of 11 obs.

III 7.55 307 (P) 30 59.50 -2.0
 IJJ 8.58 313 (P) 31 18.00 1.9
 MEO 21.34 347 iPc 33 55.50 -1.7
 ANMO 24.15 332 eP 34 25.00 0.0
 SIV 43.43 132 P 37 12.60 0.2
 SOB1 56.67 111 eP 38 54.40 0.8
 INK 60.20 344 eP 39 17.00 -0.4
 MBC 63.85 353 eP 39 41.00 -0.7
 GBA 151.07 19 PKPd 49 02.30 5.6X
 S.D. = 1.3 on 12 of 14 obs.

* OCT 03, 1990 22h 52m 55.08±1.30s
 50.372 N ±23.8km 18.814 E ± 9.5km
 DEPTH = 10.0km (geophysicist)
 POLAND (548)
 ML 3.2 (KRA), 3.0 (VKA).

KRA 0.79 113 ePg 53 10.10 -0.3
 SPC 1.50 141 iPn 53 22.70 0.4
 KSP 1.67 287 ePn 53 24.80 0.3
 ZST 2.45 208 e(P) 53 57.30 21.6X
 SRO 2.58 188 eP 53 45.60 8.0X
 VKA 2.67 219 iPnc 53 47.30 8.5X
 PRU 2.77 264 Pn 53 40.30 0.0
 BRG 3.14 281 ePg 53 54.00 8.5X
 KHC 3.62 252 Pn 53 52.00 -0.3
 CLL 3.80 287 ePg 54 09.00 14.1X
 GRF 4.94 265 e(Pg) 55 11.00 59.9X
 S.D. = 0.5 on 5 of 11 obs.

* OCT 03, 1990 22h 57m 11.84±1.71s
 31.066 S ±13.1km 71.992 W ±16.2km
 DEPTH = 94.7 ± 20.9 km
 NEAR COAST OF CENTRAL CHILE (135)

IHA 1.98 171 eP 57 46.50 2.1
 JACH 2.00 144 iPc 57 43.60 -1.3
 ROCH 2.07 157 iPd 57 45.00 -1.0
 RTBS 2.25 106 ePd 57 47.90 -0.2
 PEL 2.35 152 iPc 57 48.60 -0.9
 LCCB 2.43 172 iP 57 53.60 3.1X
 SAN 2.63 155 iPc 57 55.30 2.0
 FCH 2.68 148 eP 57 53.70 -0.5
 TACH 2.73 161 eP 57 54.00 -0.6
 RTCB 2.76 100 iPc 57 54.70 -0.5
 PCH 2.84 154 iPc 57 55.90 -0.3
 ZON 2.88 100 eP 57 58.00 1.4
 LNV 2.92 170 eP 57 56.00 -1.2
 RTLL 3.03 96 iPd 57 57.10 -1.6
 RTCV 3.06 106 e(P) 57 59.30 0.2
 CHCH 3.08 159 iP 57 59.40 0.0
 MDZ 3.23 125 eP 58 03.70 2.2
 ZOBO 15.15 14 P 00 42.50 0.0
 SIV 18.02 36 P 01 27.00 10.2X
 PPD 20.55 69 (P) 01 46.00 1.2
 VAO 23.66 76 eP 02 14.30 -1.3
 S.D. = 1.3 on 19 of 21 obs.

04d 01h

* OCT 04, 1990 01h 18m 01.97 ± 0.86s
36.572 N ± 10.4km 77.882 E ± 11.0km
DEPTH = 33.0km (normol)
4.2mb (3 obs.)

KASHMIR-XINJIANG BORDER REGION (324)

NDI	7.89	184	iPc	19	59.50	2.3
	0.6s	86.67nm			6.0mb X	
KKN	10.76	142	P	20	35.80	-1.3
DMN	10.83	144	P	20	38.00	0.0
GUN	10.97	140	P	20	39.80	-0.2
PKI	11.01	142	P	20	39.80	-0.7
QUE	11.13	238	eP	20	41.50	-0.6
			eS	22	36.40	
HYB	19.09	178	ePc	22	23.80	-0.9
GBA	22.87	181	P	23	03.40	-0.3
			S	27	03.00	
CHG	25.61	128	eP	23	34.20	4.2X
CHTO	25.61	128	eP	23	31.70	1.7
	1.0s	3.25nm			3.9mb	
HFS	46.45	322	eP	26	26.70	-0.4
	0.5s	1.20nm			4.1mb	
MBC	66.92	4	ePc	20	53.00	0.4
	0.5s	8.00nm			5.1mb	

S.D. = 1.2 on 11 of 12 obs.

* OCT 04, 1990 02h 30m 30.93 ± 1.02s
37.197 N ± 12.8km 21.064 E ± 7.9km
DEPTH = 5.0km (geophysicist)

SOUTHERN GREECE (368)

MD 3.7 (ATH).

ITM	0.69	91	ePg	30	43.50	-1.2
VLS	1.05	339	ePg	30	51.50	0.3
VLI	1.57	107	ePb	31	01.00	1.4
EVR	1.81	19	ePg	31	07.00	3.9X
VAM	3.10	124	ePg	31	30.00	8.6X
OHR	3.91	357	ePn	31	33.00	-0.1
LCI	3.96	323	P	31	33.00	-0.7
SKO	4.78	3	ePn	31	40.50	-4.8X
MEU	4.90	271	P	31	46.30	-0.8
			eSn	32	43.60	
MGR	5.22	306	P	31	48.00	-3.5X
SGO	5.61	309	P	31	58.00	1.0

S.D. = 1.2 on 7 of 11 obs.

* OCT 04, 1990 03h 21m 01.37 ± 2.59s
17.291 N ± 15.7km 100.511 W ± 20.8km
DEPTH = 24.2 ± 10.4 km
4.1mb (1 obs.)

GUERRERO, MEXICO (59)

ACX	0.75	124	iP	21	16.04	0.3
			iS	21	31.77	
III	1.47	42	iP	21	27.62	1.0
			iS	21	55.00	
UNM	2.39	32	(P)	21	44.00	4.0X
MRX	2.49	345	iP	21	39.17	-2.0
			iS	22	11.50	
PPM	2.52	45	iP	21	41.62	-0.4
			iS	22	23.00	
IIJ	2.54	17	iP	21	41.75	-0.6
			(S)	22	22.00	
IIT	2.71	50	(P)	21	44.00	-0.6
			(S)	22	24.00	
OXX	3.63	93	(P)	21	57.00	-0.6
LVVM	4.56	57	(P)	22	10.00	-0.6
SIO	18.76	11	eP	25	23.00	2.0
TUL	19.01	12	eP	25	25.60	1.5
	0.9s	10.50nm			4.1mb	

S.D. = 1.5 on 10 of 11 obs.

OCT 04, 1990 03h 31m 27.11 ± 0.66s
42.461 N ± 5.9km 19.257 E ± 5.7km
DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)

ML 2.2 (TTG).

TTG	0.03	175	iPgc	31	30.30	1.2
			iSg	31	33.70	
BDV	0.36	241	ePg	31	34.30	-0.3
			eSg	31	41.00	
NKY	0.40	332	ePg	31	36.00	0.7
			eSg	31	43.50	
ULC	0.50	181	ePg	31	36.00	-1.2
			eSg	31	43.00	
PVY	0.55	76	ePg	31	37.50	-0.7

HCY	0.56	269	ePg	31	38.00	-0.5
			eSg	31	47.50	
IVA	0.63	49	ePg	31	39.40	-0.4
			eSg	31	50.10	
OHR	1.77	139	ePn	31	59.30	1.2
	S.D. = 1.1	on	8	of	8	obs.

OCT 04, 1990 03h 47m 28.98 ± 0.72s
17.765 S ± 6.7km 178.766 W ± 5.9km
DEPTH = 546.6 ± 8.7 km
5.3mb (26 obs.)

FIJI ISLANDS REGION (181)

SVA	2.67	262	eP	48	43.00	0.7
DZM	14.55	250	iPd	50	33.90	0.0
PUZ	20.40	187	eP	51	30.50	0.6
PGZ	23.17	190	eP	51	52.80	-2.2X
THZ	24.96	195	eP	52	10.70	-0.4
KHZ	25.43	193	P	52	13.90	-1.3
	0.4s	30.00nm			5.3mb	
LTZ	26.08	195	eP	52	19.10	-1.8
BRS	27.91	245	iPc	52	37.50	0.4
			i	52	51.00	
MMCZ	28.99	198	P	52	45.80	-0.6
MHZ	29.00	198	P	52	45.50	-0.9
TLC	29.18	198	P	52	47.70	-0.3
COO	29.55	239	iPd	52	51.70	0.3
	0.7s	76.00nm			5.4mb	
RUV	30.18	90	iP	52	56.80	0.0
	0.8s	15.00nm			4.7mb	
RMO	31.24	248	iP	53	05.20	-0.5
CTA	33.13	260	iPd	53	21.00	-0.7
	0.9s	78.57nm			5.3mb	
			iPcP	55	49.00	
			iScP	58	45.90	
CNB	33.24	232	iPc	53	24.00	1.5
	0.6s	161.00nm			5.8mb	
CAN	33.52	232	iPd	53	26.70	1.9
BWA	33.63	234	iPd	53	25.30	-0.4
PMG	34.10	280	eP	53	29.50	-0.3
	0.7s	89.04nm			5.5mb	
CMS	34.80	240	iPd	53	36.40	0.9
	0.3s	53.00nm			5.6mb	
LAT	35.17	284	eP	53	40.00	1.3
QLP	35.27	249	iPd	53	39.80	0.4
TOO	37.00	230	iPd	53	56.60	3.1X
	0.6s	62.00nm			5.4mb	
STK	38.40	241	iPd	54	06.30	1.2
	0.7s	57.00nm			5.3mb	
BFD	39.05	232	ePd	54	13.00	2.7
OIS	39.35	259	eP	54	11.50	-1.4
ADE	41.43	237	iPd	54	30.00	0.5
	0.7s	98.63nm			5.4mb	
WB5	44.30	260	iPd	54	35.90	-16.3X
ASPA	44.50	254	iPd	54	52.90	-0.8
	0.6s	437.10nm			6.2mb	
			iPcP	56	25.10	
			iScP	59	29.20	
			iS	00	47.40	
			iScS	03	52.70	
FORR	49.73	244	iPd	55	32.50	-0.6
	0.5s	258.00nm			6.0mb	
KNA	50.15	264	iPd	55	35.50	-0.9
	0.5s	105.00nm			5.6mb	
WARB	51.01	250	iPd	55	42.20	-0.5
	0.4s	56.00nm			5.3mb	
DRV	55.69	199	eP	56	15.80	0.5
COOL	55.71	244	eP	56	15.00	-1.1
MBL	57.68	256	iPd	56	28.60	-1.1
	0.6s	55.00nm			5.1mb	
KLB	58.58	243	iPd	56	34.80	-0.9
	0.5s	66.00nm			5.2mb	
NWAO	58.98	242	eP	56	37.00	-1.3
RKG	59.13	241	eP	56	39.00	-0.3
BAL	59.54	245	eP	56	41.00	-1.0
MUN	59.88	243	eP	56	44.00	-0.3
	0.5s	135.00nm			5.5mb	
MRWA	60.25	246	iPd	56	45.60	-1.2
NANU	61.44	254	iPd	56	54.20	-0.4
	0.4s	375.00nm			6.2mb	
KKM	68.38	284	ePd	57	38.00	-0.3
	0.7s	47.40nm			5.1mb	
GCC	76.35	44	ePc	58	23.20	-0.1
PRS	76.37	44	ePc	58	23.80	0.3
SAO	76.56	44	eP	58	24.10	-0.4
BRK	76.66	43	eP	58	25.00	0.0

PRI	76.73	45	ePc	58	26.10	0.5
PAS	77.37	48	eP	58	23.00	-6.0X
MWC	77.49	48	eP	58	30.00	0.1
FRI	77.84	45	ePc	58	31.20	-0.2
RVR	77.86	48	eP	58	31.00	-0.6
PLM	77.90	49	eP	58	32.00	-0.1
SBB	77.90	47	eP	58	32.00	0.1
ISA	77.96	46	eP	58	32.00	-0.2
CMB	77.97	43	iPc	58	32.10	-0.1
WDC	78.05	40	iPc	58	36.40	3.9X
ORV	78.11	42	iPc	58	33.60	0.8
TPC	78.86	49	eP	58	38.00	1.0
GSC	78.93	47	eP	58	38.00	0.6
SVW	80.77	11	iPc	58	44.90	-1.3
	0.9s	11.90nm			4.4mb	
TTA	82.39	10	iPc	58	54.10	-0.4
PMR	82.54	14	iPc	58	54.00	-1.1
	0.4s	10.50nm			4.7mb	
SNG	83.31	280	eP	59	01.70	1.8
BJI	83.44	316	eP	59	00.00	-0.1
	1.1s	12.00nm			4.4mb	
TOA	83.69	15	iPc	59	00.60	-0.4
	1.0s	70.20nm			5.2mb	
MAW	83.88	200	iP	59	04.70	2.9
FBA	85.74	13	iPc	59	09.10	-1.7
	0.4s	11.40nm			4.9mb	
ALO	86.27	52	eP	59	14.00	-0.3
	1.0s	4.00nm			4.1mb X	
			e	01	14.00	
LZH	90.53	308	Pd	59	34.80	0.8
	1.0s	23.00nm			5.1mb	
YKA	94.34	25	eP	59	49.60	-1.1
	0.7s	2.30nm			4.4mb	

SQTA	149.50	347	iPKPd	06	17.40	4.8X	BRG	22.38	149	iP	51	55.10	-0.6	SFI	28.85	155	P	52	56.50	-0.1
	0.4s		22.00nm					1.0s	50.00nm				4.9mb	VR1	29.71	133	ePc	53	06.50	-2.1
			i	06	20.50						52	02.20		SDI	31.30	153	P	53	17.50	-0.9
			i	06	25.60						52	10.40		TOL	31.80	180	eP	53	24.00	1.2
HAU	149.55	353	ePKP	06	17.50	5.0X	ABH	22.46	160	eP	51	56.68	0.0	SKO	32.32	143	eP	53	26.00	-1.3
	0.5s		13.10nm				HOF	22.60	152	eP	51	58.50	0.5	OHR	33.03	144	eP	53	32.00	-1.6
BSF	149.67	353	ePKP	06	17.70	4.9X	KSP	22.81	145	iP	51	59.00	-0.3	YKA	37.94	315	eP	54	16.00	1.7
	0.6s		9.90nm					1.1s	72.00nm				5.1mb		0.9s		3.50nm			4.1mb
FVI	149.71	344	PKPc	06	17.40	4.7X	FLN	22.99	174	eP	52	01.70	-0.1	MAID	47.76	102	eP	55	36.00	0.8
LJU	149.71	341	ePKP	06	18.00	5.2X		1.0s	32.00nm				4.8mb	QUE	55.74	97	eP	56	35.70	0.3
AKSR	149.74	287	iPKPd	06	20.00	6.5X	Z	22s	0.52um				3.9Msz	ALO	60.95	293	e(P)	57	09.00	-2.8
LPF	149.76	3	ePKP	06	17.90	5.1X	GRF	23.11	154	eP	52	04.00	1.0	KIC	65.17	181	Pc	57	39.30	-0.2
	0.4s		12.60nm				Z	29s	0.40um				3.7MszX	LIC	65.31	181	Pc	57	39.90	-0.5
VOY	149.92	342	ePKP	06	18.10	4.8X					52	09.00		SIV	95.30	234	Pc	00	23.00	2.4
VBY	149.97	340	ePKPd	06	19.00	6.6X	LDF	23.17	173	eP	52	03.50	-0.1	S.D. = 1.2 on 69 of 74 obs.						
AKRL	150.02	287	ePKP	06	19.50	5.6X		1.1s	34.20nm				4.8mb	? OCT 04, 1990 09h 11m 33.74± 0.65s						
CEY	150.02	341	ePKP	06	18.50	5.2X	PRU	23.33	148	P	52	06.00	0.9	0.257 S ±38.2km 20.894 W ±20.4km						
ANMR	150.17	287	iPKPd	06	20.00	5.9X					52	12.00		DEPTH = 10.0km (geophysicist)						
TRI	150.25	342	PKP	06	19.00	5.4X	GRR	23.35	174	eP	52	04.40	-0.9	4.8mb (1 obs.) 4.5Msz (2 obs.)						
SKO	150.33	329	ePKP	06	19.00	5.1X		1.1s	39.05nm				4.9mb	CENTRAL MID-ATLANTIC RIDGE (406)						
VVI	150.37	344	PKP	06	19.50	5.7X	GW	23.36	160	P	52	07.00	1.6	LIC	17.10	68	P	15	35.30	0.8
CTI	150.50	345	PKP	06	20.00	5.8X	8ST	23.38	180	P	52	12.84	7.3X	CAI	17.36	249	eP	15	36.00	-1.9
AVF	151.00	357	ePKP	06	20.40	5.7X	LPF	23.70	175	eP	52	07.90	-0.8	KIC	17.41	68	P	15	38.50	0.0
	0.5s		7.30nm					1.1s	95.25nm				5.3mb				S	18	30.00	
SMF	151.12	356	ePKP	06	20.60	5.7X	CDF	23.88	161	P	52	08.85	-1.7				eTT	29	22.00	
	0.5s		2.55nm				WET	23.88	151	eP	52	12.00	1.5	LKO	18.08	57	P	15	45.12	-1.8
MFF	151.22	2	ePKP	06	21.20	6.2X	WLS	23.89	161	P	52	10.95	0.3	SDB1	21.81	245	eP	16	28.90	0.8
	0.5s		13.10nm				VITF	23.95	163	P	52	10.37	-0.7				e	16	35.00	
BGF	151.26	358	ePKP	06	21.60	6.5X	KHC	24.01	150	P	52	13.50	1.8	PPD	36.70	232	eP	18	42.70	-0.3
	0.5s		15.65nm				ECH	24.06	161	P	52	10.47	-1.8	SIV	42.60	246	iPc	19	33.00	0.9
VAI	151.29	349	PKPc	06	21.60	6.5X	KRA	24.27	140	eP	52	14.00	-0.2	CNCB	49.20	248	P	20	26.00	0.8
OHR	151.29	328	ePKP	06	21.50	6.1X		1.0s	74.00nm				5.3mb	ZOBD	49.20	249	P	20	25.00	-0.2
	0.6s		80.00nm				Z	18s	1.80um				4.6Msz		Z	20s	0.12um			3.9Msz
MAF	151.60	358	ePKP	06	22.70	7.1X	E	18s	1.20um								LR	36	04.00	
	0.5s		7.30nm								52	15.90		LPB	49.24	248	P	20	22.00	-3.3X
LPL	151.95	352	ePKP	06	24.00	7.6X						52	20.20	SOTA	54.96	26	e(P)	21	08.30	0.9
	0.6s		4.50nm				MOF	24.42	161	P	52	15.18	-0.7		1.0s		10.70nm			4.8mb
LPG	151.97	352	ePKP	06	24.00	7.4X	LOR	24.71	167	eP	52	18.20	-0.4	KHC	57.44	26	eP	21	30.10	5.0X
	0.6s		4.50nm					0.8s	13.45nm				4.7mb	XAN	122.29	49	PKP	30	34.00	2.8X
BNI	152.41	352	PKP	06	25.00	8.0X	Z	18s	0.28um				3.8Msz	TIY	123.15	44	ePKP	30	51.50	18.7X
RJF	152.54	360	ePKP	06	24.30	7.3X	BBS	24.84	161	P	52	20.18	0.3		Z	20s	0.50um			5.2Msz
	0.7s		7.70nm				LOMF	24.89	162	P	52	18.66	-1.7	S.D. = 1.2 on 10 of 14 obs.						
LFF	152.90	1	ePKP	06	25.10	7.6X	SSF	24.89	167	eP	52	20.00	-0.3	OCT 04, 1990 09h 23m 27.74± 1.57s						
	0.7s		11.00nm					0.8s	16.80nm				4.8mb	0.314 N ± 7.1km 125.838 E ±10.9km						
CAF	152.91	359	ePKP	06	25.30	7.7X	LBF	25.00	167	eP	52	21.10	-0.3	DEPTH = 50.0 ± 14.3 km						
	0.5s		4.00nm					0.9s	34.40nm				5.0mb	4.9mb (12 obs.) 4.4Msz (2 obs.)						
LPO	153.16	0	ePKP	06	25.50	7.6X	AVF	25.15	168	eP	52	22.20	-0.5	MOLUCCA PASSAGE (266)						
	0.4s		3.45nm					0.9s	18.85nm				4.8mb	MNI	1.50	318	eP	23	53.40	0.7
SBF	153.46	350	ePKP	06	26.90	8.5X	MFF	25.16	173	eP	52	22.40	-0.4				eS	24	15.00	
	0.6s		8.10nm					0.9s	19.65nm				4.8mb	KKM	11.16	301	ePd	26	13.00	5.4X
FRF	153.88	351	ePKP	06	27.70	8.9X	SPC	25.16	140	eP	52	23.00	0.0	TRT	15.39	239	ePc	27	10.20	6.9X
SGO	154.24	335	PKP	06	27.00	7.6X	SMF	25.33	167	eP	52	24.00	-0.5	WB5	21.74	158	iPc	27	59.00	-17.0X
LIC	167.00	151	PKP	06	33.60	0.1		1.0s	35.00nm				5.0mb				e	32	05.00	
KIC	167.25	152	PKP	06	33.70	0.0	BGF	25.35	168	eP	52	24.00	-0.6	MBL	22.13	195	eP	28	20.00	-0.7
TIC	167.37	150	PKP	06	33.90	0.1		0.8s	25.50nm				5.0mb		0.5s		5.00nm			4.2mb
S.D. = 1.0 on 81 of 143 obs.							WATA	25.46	154	iPc	52	26.80	0.9	PMG	23.32	115	eP	28	36.00	3.7X
OCT 04, 1990 08h 46m 56.45± 0.50s							ZST	25.51	146	eP	52	27.90	1.8	QIS	24.73	148	eP	28	45.70	-0.4
71.605 N ± 7.1km 4.275 W ± 8.1km											21	42.80		NANU	24.86	203	eP	28	48.50	1.3
DEPTH = 10.0km (geophysicist)							SQTA	25.53	155	iPc	52	27.70	1.3	IPM	25.14	280	ePc	28	49.50	-0.5
4.9mb (31 obs.) 3.9Msz (4 obs.)								1.2s	56.30nm				5.1mb	WARB	26.35	178	eP	29	01.00	-0.1
JAN MAYEN ISLAND REGION (639)											52	38.80			0.8s		30.00nm			4.9mb
JNW	1.46	249	eP	47	23.50	0.7	TCF	25.58	170	eP	52	26.10	-0.7	BDT	31.32	304	eP	29	41.00	-4.7X
DAG	6.50	329	iPc	48	32.00	-2.4		1.0s	37.00nm				5.0mb	CHG	32.17	306	eP	29	53.00	-0.2
	0.5s		65.73nm			5.8mb	LSF	25.58	171	eP	52	26.00	-0.8	CHTO	32.17	306	iP	29	52.60	-0.6
			iP	49	43.10			0.9s	26.20nm				4.9mb		1.0s		10.50nm			4.6mb
KEV	10.45	85	eP	49	41.00	11.8X	MAF	25.67	169	eP	52	26.80	-0.8	KMI	33.27	320	Pc	30	05.00	2.0
SOD	11.54	96	iP	49	41.80	-2.1		1.0s	47.00nm				5.1mb		2.0s		80.00nm			5.2mb
			i	49	53.10		SOP	25.90	147	eP	52	38.10	8.3X	Z	18s		0.60um			4.3Msz
NRA0	12.58	142	Pn	49	54.90	-3.1X	SRO	26.10	144	eP	52	34.20	2.7							

04d 09h

	0.8s	6.00nm	4.5mb	
Z	18s	0.44um	4.4msz	
GUN	47.09 309 P	31 57.40	0.1	
	0.7s	26.00nm	5.3mb	
PKI	47.29 308 P	31 59.40	0.5	
KKN	47.50 309 P	32 00.20	-0.1	
	0.8s	19.00nm	5.1mb	
DMN	47.55 308 P	32 00.80	0.0	
GKN	48.10 309 P	32 04.80	-0.2	
	0.7s	16.00nm	5.2mb	
HYB	49.51 293 eP	32 14.00	-1.8	
GBA	49.70 288 P	32 17.00	-0.2	
	0.3s	2.70nm	4.8mb	
WMO	55.04 327 P	32 56.50	-0.3	
ALO	119.96 49 ePKP	42 16.00	0.9	
KIC	130.24 279 PKP	42 37.10	1.9X	
LIC	130.53 278 PKP	42 37.50	1.8	
MDZ	144.77 158 iPKP	43 02.50	1.1	
CNCB	158.69 141 PKP	43 26.00	3.4X	
LPB	158.82 140 ePKP	43 19.00	-3.5X	
ZOBO	159.00 140 PKP	43 26.70	3.8X	
SIV	163.00 157 PKP	43 28.20	1.9X	

S.D. = 1.0 on 29 of 40 obs.

% OCT 04, 1990 10h 20m 05.74±1.00s
39.122 N ± 8.1km 27.697 E ±10.1km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

IZM	0.80 205 ePg	20 21.00	-0.3	
	eSg	20 33.50		
DST	0.87 56 iPn	20 23.10	0.6	
EDC	1.23 6 ePn	20 27.50	-1.1	
BNT	1.24 8 ePn	20 29.00	0.1	
EZN	1.27 304 ePn	20 30.00	0.6	

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

? OCT 04, 1990 11h 09m 55.58±1.25s
4.086 S ±20.7km 152.442 E ±16.1km
DEPTH = 188.1 ± 10.7 km

NEW BRITAIN REGION (192)

RAB	0.29 249 iPc	10 22.20	0.1	
	iS	10 44.00		
PMG	7.45 225 eP	11 42.50	-0.2	
	eS	13 07.00		
BKM	20.54 132 iPd	14 20.10	-0.8	
DZM	22.45 144 iPc	14 40.60	0.9	
PKI	71.76 301 P	21 00.00	0.0	

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

OCT 04, 1990 11h 39m 18.62±0.43s
41.365 N ± 3.7km 23.374 E ± 4.3km
DEPTH = 10.0km (geophysicist)

GREECE-BULGARIA BORDER REGION (363)

ML 3.0 (THE).

SRS	0.30 146 ePd	39 24.16	-0.7	
	eS	39 27.92		
MMB	0.35 50 iPgc	39 25.00	-0.8	
	iSg	39 31.00		
KNT	0.41 241 ePc	39 26.88	-0.2	
	iS	39 30.68		
SOH	0.54 182 ePc	39 28.88	-0.7	
	eS	39 36.64		
KKB	0.55 337 ePg	39 30.00	0.3	
	Sg	39 37.00		
THE	0.79 203 ePc	39 33.56	-0.5	
	eS	39 44.16		
GRG	0.84 241 ePd	39 34.88	0.0	
	eS	39 47.28		
RZN	1.06 72 ePg	39 39.00	0.3	
	Sg	39 54.00		
OUR	1.13 156 ePc	39 40.08	0.3	
	eS	39 55.92		
VTS	1.23 354 iP	39 41.00	-0.6	
	iSg	39 55.00		
PLD	1.24 53 ePg	39 44.00	2.4X	
	iSg	40 02.00		
PGB	1.32 26 ePg	39 44.00	0.9	
	Sg	40 03.00		
LIT	1.43 208 ePd	39 45.80	1.2	
	eS	40 05.40		
KDZ	1.56 79 eP	39 47.00	0.5	
	iS	40 06.00		
SKO	1.57 293 ePn	39 45.00	-1.6	
FNA	1.62 250 ePd	39 48.84	1.5	

DIM	1.76 66 eS	40 11.36		
	ePg	39 53.00	3.7X	
	eSg	40 18.00		
OHR	1.96 263 ePn	39 55.20	2.9X	

S.D. = 0.9 on 15 of 18 obs.

OCT 04, 1990 12h 00m 22.50±0.95s
46.070 N ± 8.0km 14.338 E ± 6.2km
DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)

MD 2.8 (LJU). Felt at Ljubljana and Skofja Loko.

LJU	0.14 101 iPgc	00 25.60	-0.2	
	iSg	00 27.90		
VOY	0.31 263 iPgc	00 29.00	0.0	
	eSg	00 34.30		
CEY	0.34 169 iPgc	00 29.60	0.1	
	iSg	00 34.50		
TRI	0.54 228 iPgc	00 33.10	-0.3	
	iSg	00 42.00		
RIY	0.73 177 iPgc	00 37.00	0.2	
	iSg	00 47.20		
VBV	0.86 131 eP	00 53.10	14.1X	
	e(Sg)	00 54.50		
FVI	1.20 296 Pc	00 45.00	0.2	
	eSn	01 03.40		
SOTA	2.44 299 iPn	01 06.10	2.9X	
	i	01 07.70		

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

% OCT 04, 1990 12h 13m 18.46±0.43s
48.264 N ± 3.8km 0.585 W ± 4.3km
DEPTH = 13.4 ± 3.2 km

FRANCE (538)

ML 3.1 (LDG).

GRR	0.22 304 Pg	13 23.30	-0.2	
	Sg	13 25.70		
LPF	0.38 233 Pg	13 26.60	0.1	
	Sg	13 30.80		
LDF	0.45 43 Pg	13 28.00	0.3	
	Sg	13 34.00		
FLN	0.50 8 Pg	13 28.60	0.0	
	Sg	13 35.10		
MFF	1.69 170 Pn	13 48.30	0.6	
	Pg	13 50.60		
	Sg	14 13.30		
LSF	2.48 144 Pn	13 59.60	0.5	
	Pg	14 05.70		
	Sg	14 36.30		
TCF	2.74 135 Pn	14 03.10	0.2	
	Pg	14 10.20		
	Sg	14 47.20		
BGF	2.89 125 Pn	14 04.90	0.0	
	Pg	14 13.00		
	Sg	14 49.70		
MAF	2.96 132 Pn	14 06.00	0.0	
	Pg	14 14.40		
	Sg	14 51.30		
SSF	3.02 112 Pn	14 07.60	0.9	
	Pg	14 16.30		
	Sg	14 53.00		
AVF	3.05 117 Pn	14 07.20	0.1	
	Pg	14 17.40		
	Sg	14 54.30		
LOR	3.16 107 Pn	14 08.50	-0.3	
	Pg	14 19.00		
	Sg	14 57.50		
RJF	3.29 153 Pn	14 11.00	0.3	
	Pg	14 20.20		
	Sg	15 02.30		
LBF	3.34 111 Pn	14 10.80	-0.6	
	Pg	14 22.70		
	Sg	15 03.70		
SMF	3.41 117 Pn	14 11.70	-0.6	
	Pg	14 22.90		
	Sg	15 06.80		
LPO	3.79 160 Pn	14 16.80	-0.9	
	Sg	15 18.00		
CAF	3.81 150 Pn	14 17.60	-0.4	
	Sg	15 19.60		

S.D. = 0.5 on 17 of 17 obs.

% OCT 04, 1990 14h 33m 57.93±1.01s
39.115 N ± 8.7km 27.559 E ±10.4km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.7 (ISK).

IZM	0.75 198 ePg	34 12.60	-0.1	
	eSg	34 24.10		
DST	0.96 59 iPn	34 15.00	-1.3	
EZN	1.19 307 ePn	34 20.00	-0.1	
EDC	1.25 11 ePn	34 20.50	-0.7	
BNT	1.27 13 ePn	34 22.00	0.5	
KCT	1.29 28 iPn	34 21.20	-0.6	
YLV	2.01 43 iPn	34 34.70	2.3	

S.D. = 1.4 on 7 of 7 obs.

? OCT 04, 1990 14h 39m 02.37±0.60s
33.784 N ±10.8km 139.274 E ±12.2km
DEPTH = 33.0km (normal)

4.5mb (5 obs.)

SOUTH OF HONSHU, JAPAN (211)

GUN	45.80 278 P	47 23.30	0.0	
PKI	46.31 277 P	47 27.40	0.1	
KKN	46.33 278 P	47 27.80	0.4	
DMN	46.54 278 P	47 29.50	0.4	
GKN	46.79 278 P	47 31.20	0.3	
FBA	52.78 31 eP	48 17.00	0.9	
	0.6s	0.90nm	3.9mb	
WB5	53.57 186 eP	48 07.00	-15.3X	
WARB	60.83 193 eP	49 14.00	0.3	
	0.4s	2.00nm	4.6mb	
FORR	65.15 191 iPc	49 41.70	-0.4	
	0.5s	17.00nm	5.4mb	
HFS	76.31 335 eP	50 48.50	-0.8	
	0.4s	2.60nm	4.6mb	
NB2	76.49 337 P	50 49.60	-0.8	
	0.6s	2.60nm	4.4mb	
CLL	83.02 329 e(P)	51 25.00	-0.4	
	eSg	07 41.00		
PRU	83.31 328 eP	51 28.00	1.0	
MKT	83.76 303 iPc	51 29.50	-0.2	
KHC	84.37 328 eP	51 33.10	0.7	
RMN	84.39 303 iPc	51 32.20	-0.7	
MBH	84.64 302 iPc	51 33.40	-0.7	

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

OCT 04, 1990 16h 00m 42.39±0.59s
37.010 N ± 5.6km 29.515 E ± 6.7km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 4.0 (ISK), 3.9 (ATH).

KSL	0.89 176 ePn	01 00.60	1.1	
	eSn	01 17.20		
BCK	0.97 62 iPn	01 01.90	1.1	
KHL	1.31 0 iPn	01 06.70	0.0	
ARG	1.37 235 ePn	01 07.70	0.2	
ALT	2.10 13 ePn	01 20.90	2.8X	
SMG	2.24 289 ePn	01 20.00	-0.1	
IZM	2.26 308 ePn	01 19.10	-1.3	
DST	2.68 345 ePn	01 25.00	-1.4	
PPCY	3.13 132 eP	01 35.00	2.4X	
IZI	3.32 359 ePn	01 36.00	0.5	
PRK	3.39 312 ePn	01 35.70	-0.7	
YLV	3.55 358 ePn	01 41.00	2.2	
BNT	3.57 340 ePn	01 46.00	7.1X	
NPS	3.61 242 ePn	01 41.00	1.5	
CSS	3.71 122 eP	01 43.30	2.3X	
EZN	3.77 319 iPn	01 41.40	-0.3	
ADI	6.11 128 eP	02 14.00	-0.9	
DSI	7.28 136 eP	02 29.50	-1.8	

S.D. = 1.3 on 14 of 18 obs.

* OCT 04, 1990 16h 08m 51.62±2.05s
40.594 N ±12.1km 30.237 E ±16.5km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.6 (ISK).

GPA	0.31 170 iPgc	08 58.00	-0.1	
	eSg	09 03.50		
HRT	0.49 298 iPgc	09 01.20	-0.4	
	iSg	09 09.60		
GBZT	0.63 288 ePg	09 15.00	10.7X	
IZI	0.64 246 iPgc	09 05.10	0.6	
YLV	0.66 268 iPgc	09 04.60	-0.2	
	iSg	09 14.60		
ISK	1.01 298 iPn	09 10.60	-0.1	
KCT	1.48 257 iPn	09 17.60	-0.7	

CTT 1.48 293 iPn 09 19.10 0.8
S.D. = 0.7 on 7 of 8 obs.

? OCT 04, 1990 17h 33m 02.14 ± 1.05s
20.037 S ± 11.3km 179.972 E ± 27.6km
DEPTH = 599.9 ± 13.8 km
5.3mb (1 obs.)

SOUTH OF FIJI ISLANDS

(171)

SGE	3.11	321	eP	34	22.50	0.0
PUZ	18.03	184	eP	36	39.80	0.7
WLZ	18.15	191	eP	36	43.50	3.4X
NOZ	18.59	185	P	36	44.50	0.3
PGZ	20.76	188	eP	37	03.10	-1.0
MNG	20.87	190	eP	37	04.00	-1.2
KHZ	22.97	192	eP	37	24.70	0.7
LTZ	23.59	194	eP	37	30.20	0.5
WBS	42.76	262	eP	40	10.00	0.0
FBA	88.21	13	ePc	44	50.90	0.0
	0.6s	27.80nm				5.3mb
HFS	138.76	350	ePKP	51	16.70	-5.3X
	1.1s	15.70nm				
KRA	146.10	337	ePKP	51	46.00	11.1X
MKT	146.57	296	ePKP	51	46.00	9.7X
KSP	146.66	341	iPKP	51	43.30	7.5X
SPC	146.69	336	ePKP	51	44.10	7.9X
RMN	147.09	295	ePKP	51	48.00	10.8X
CLL	147.15	345	iPKPd	51	44.90	8.3X
	1.0s	25.00nm				
				51	48.30	
BRG	147.31	344	iPKP	51	45.60	8.0X
	0.8s	14.00nm				
				51	49.40	
WTS	147.66	352	ePKP	51	45.50	8.2X
	0.8s	15.00nm				
PRU	147.94	342	iPKPd	51	47.50	9.6X
	0.8s	13.80nm				
MOX	148.09	346	ePKP	51	47.00	8.9X
ZST	148.68	338	ePKP	51	49.20	10.1X
ENN	148.98	353	ePKP	51	48.50	9.1X
	0.7s	11.00nm				
				51	54.50	
KHC	148.99	343	iPKP	51	50.00	10.4X
GRF	149.08	346	ePKPd	51	49.80	10.1X
				51	56.80	
ABH	149.61	350	ePKP	51	49.94	9.4X
DOU	149.78	354	PKPd	51	50.20	9.5X
CDF	151.08	350	ePKP	51	53.20	10.4X
	0.5s	3.65nm				
FLN	151.34	1	ePKP	51	52.60	9.6X
	0.5s	9.50nm				
LDF	151.51	0	ePKP	51	53.00	9.7X
	0.5s	5.85nm				
HAU	151.62	351	ePKP	51	54.20	10.7X
	0.7s	5.50nm				
GRR	151.71	1	ePKP	51	53.60	10.0X
	0.4s	6.85nm				
BSF	151.73	350	ePKP	51	54.20	10.4X
	0.7s	4.40nm				
LPF	152.06	1	ePKP	51	54.30	10.2X
	0.5s	14.60nm				
LOR	152.65	354	ePKP	51	56.30	11.3X
	0.6s	2.70nm				
SSF	152.89	355	ePKP	51	56.90	11.6X
MFF	153.50	0	ePKP	51	57.50	11.4X
	S.D. = 0.9 on 9 of 37 obs.					

% OCT 04, 1990 20h 37m 00.59 ± 1.71s
33.699 S ± 6.2km 71.605 W ± 13.5km
DEPTH = 10.0km (geophysicist)

NEAR COAST OF CENTRAL CHILE

(135)

LCCM	0.23	7	iPc	37	05.50	0.1
			iS	37	12.10	
LNW	0.30	148	iPd	37	07.00	0.1
			iS	37	15.50	
TACH	0.56	85	eP	37	12.20	0.3
			iS	37	25.50	
CHCH	0.83	107	iPd	37	16.20	-0.4
			iS	37	32.30	
ROCH	0.88	35	eP	37	17.00	-0.6
			iS	37	31.70	
PCH	0.91	85	iPc	37	18.10	0.0
			iS	37	35.30	
FCH	1.16	72	eP	37	22.60	0.1
			iS	37	44.00	
JACH	1.32	40	iPd	37	25.60	0.5
			e	37	44.50	
	S.D. = 0.4 on 8 of 8 obs.					

OCT 04, 1990 20h 57m 14.97 ± 1.38s

2.089 N ± 4.7km 126.691 E ± 7.7km

DEPTH = 68.4 ± 13.4 km

5.1mb (13 obs.)

MOLUCCA PASSAGE

(266)

MNI	1.96	251	eP	57	47.00	0.4
			eS	58	08.00	
KKM	11.16	291	ePc	59	55.00	0.9
	0.6s	50.20nm				5.7mb
MTN	15.48	164	eP	00	49.00	-1.7
	0.4s	54.00nm				5.1mb
KNA	17.84	173	eP	01	19.60	-0.6
WBS	23.10	161	eP	02	00.30	-15.4X
			eS	06	09.70	
MBL	24.06	196	iPd	02	25.70	0.6
	0.4s	4.00nm				4.2mb
OIS	25.82	151	eP	02	41.20	-0.5
NANU	26.81	203	eP	02	50.30	-0.5
WARB	28.11	180	eP	03	04.00	1.5
	0.4s	8.00nm				4.7mb
LOE	28.86	303	eP	03	08.80	-0.6
CHG	31.86	303	eP	03	36.00	0.1
	0.8s	16.60nm				4.9mb
MRWA	32.77	197	eP	03	43.60	-0.1
FORR	32.78	178	iPd	03	43.30	-0.4
	0.4s	34.00nm				5.5mb
COOL	33.21	189	eP	03	48.00	0.5
BAL	33.88	196	eP	03	53.00	-0.3
TSRJ	34.38	13	P	03	57.00	0.3
KLB	34.55	194	eP	04	00.00	0.9
IIDJ	34.82	16	eP	04	01.50	0.1
MUN	35.31	196	eP	04	06.00	0.5
CHJJ	35.66	17	P	04	07.10	-1.3
MTMJ	35.83	15	P	04	09.70	-0.3
NWAO	35.96	194	eP	04	12.00	1.0
STK	36.63	158	eP	04	15.00	-1.6

% OCT 04, 1990 18h 20m 42.82 ± 1.08s
32.880 S ± 8.8km 70.534 W ± 12.2km
DEPTH = 33.0km (normal)

CHILE-ARGENTINA BORDER REGION

(127)

JACH	0.20	346	iPc	20	49.30	-0.3
			iS	21	01.50	
ROCH	0.41	257	iPc	20	53.20	0.9
			iS	21	08.10	
FCH	0.49	155	iPd	20	54.00	0.4
			iS	21	08.60	
PCH	0.74	179	iPd	20	57.10	0.2
			iS	21	14.40	
TACH	0.84	204	eP	20	58.50	0.2
			iS	21	17.00	
CHCH	1.06	185	iPc	21	01.20	-0.2
			eS	21	14.40	
LNW	1.30	214	iPc	21	03.50	-1.2
			iS	21	25.30	
	S.D. = 0.8 on 7 of 7 obs.					

OCT 04, 1990 19h 34m 35.30 ± 0.61s
39.288 N ± 5.7km 27.754 E ± 5.9km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 3.1 (ISK).

DST	0.75	65	iPg	34	48.90	-1.1
			iSg	35	00.90	
IZM	0.97	203	ePn	34	51.00	-2.7
EDC	1.06	5	iPn	34	55.50	0.2
KCT	1.07	26	iPn	34	56.00	0.6
BNT	1.07	7	iPn	34	56.00	0.5
PRK	1.15	268	eP	34	57.60	0.8
			eS	35	14.00	
KGT	1.21	344	iPn	34	56.00	-1.9
EZN	1.23	296	iPn	34	58.30	0.2
KHL	1.69	124	ePn	35	05.70	0.7
IZI	1.69	51	iPn	35	04.70	-0.4
SMG	1.73	285	eP	35	07.00	1.4
YLV	1.78	44	ePn	35	03.00	-3.4X
ALT	1.85	96	ePn	35	09.00	1.6
CTT	1.93	15	ePn	35	09.00	0.6
HRT	2.12	43	ePn	35	10.00	-1.3
RDO	2.51	318	eP	35	17.70	0.9
	S.D. = 1.3 on 15 of 16 obs.					

% OCT 04, 1990 20h 37m 00.59 ± 1.71s
33.699 S ± 6.2km 71.605 W ± 13.5km
DEPTH = 10.0km (geophysicist)

NEAR COAST OF CENTRAL CHILE

(135)

LCCM	0.23	7	iPc	37	05.50	0.1
			iS	37	12.10	
LNW	0.30	148	iPd	37	07.00	0.1
			iS	37	15.50	
TACH	0.56	85	eP	37	12.20	0.3
			iS	37	25.50	
CHCH	0.83	107	iPd	37	16.20	-0.4
			iS	37	32.30	
ROCH	0.88	35	eP	37	17.00	-0.6
			iS	37	31.70	
PCH	0.91	85	iPc	37	18.10	0.0
			iS	37	35.30	
FCH	1.16	72	eP	37	22.60	0.1
			iS	37	44.00	
JACH	1.32	40	iPd	37	25.60	0.5
			e	37	44.50	
	S.D. = 0.4 on 8 of 8 obs.					

OCT 04, 1990 20h 57m 14.97 ± 1.38s

2.089 N ± 4.7km 126.691 E ± 7.7km

DEPTH = 68.4 ± 13.4 km

5.1mb (13 obs.)

MOLUCCA PASSAGE

(266)

MNI	1.96	251	eP	57	47.00	0.4
			eS	58	08.00	
KKM	11.16	291	ePc	59	55.00	0.9
	0.6s	50.20nm				5.7mb
MTN	15.48	164	eP	00	49.00	-1.7
	0.4s	54.00nm				5.1mb
KNA	17.84	173	eP	01	19.60	-0.6
WBS	23.10	161	eP	02	00.30	-15.4X
			eS	06	09.70	
MBL	24.06	196	iPd	02	25.70	0.6
	0.4s	4.00nm				4.2mb
OIS	25.82	151	eP	02	41.20	-0.5
NANU	26.81	203	eP	02	50.30	-0.5
WARB	28.11	180	eP	03	04.00	1.5
	0.4s	8.00nm				4.7mb
LOE	28.86	303	eP	03	08.80	-0.6
CHG	31.86	303	eP	03	36.00	0.1
	0.8s	16.60nm				4.9mb
MRWA	32.77	197	eP	03	43.60	-0.1
FORR	32.78	178	iPd	03	43.30	-0.4
	0.4s	34.00nm				5.5mb
COOL	33.21	189	eP	03	48.00	0.5
BAL	33.88	196	eP	03	53.00	-0.3
TSRJ	34.38	13	P	03	57.00	0.3
KLB	34.55	194	eP	04	00.00	0.9
IIDJ	34.82	16	eP	04	01.50	0.1
MUN	35.31	196	eP	04	06.00	0.5
CHJJ	35.66	17	P	04	07.10	-1.3
MTMJ	35.83	15	P	04	09.70	-0.3
NWAO	35.96	194	eP	04	12.00	1.0
STK	36.6					

WDW	0.21	8	P	48	38.00	-0.4
WEL	0.24	324	iPc+	48	40.00	1.3
			S	48	49.50	
CAW	0.38	13	P	48	39.70	-0.7
KIW	0.62	357	P	48	43.90	0.3
KAI	2.84	247	eP	49	14.00	-1.4
RIV	20.29	284	eP	53	12.00	5.4X
			e	58	08.00	
DZM	20.64	337	iPc	53	10.00	-0.4
CNB	20.94	279	ePd	53	14.70	1.3
	1.4s	176.00nm				5.2mb
CAN	21.21	278	iPd	53	19.00	2.9X
			eTT	11	30.00	
COO	21.53	293	iPc	53	23.80	4.4X
BWA	22.03	280	eP	53	23.70	-0.6
			eTT	12	15.00	
BRS	22.98	301	iPd	53	37.00	3.3X
			i	53	43.50	
			e	53	55.00	
TOO	23.01	270	iPd	53	35.90	2.0
	1.2s	183.00nm				5.4mb
BKM	24.42	344	iPc	53	47.50	-0.2
CMS	25.35	284	eP	53	57.00	0.5
BFD	25.35	269	eP	54	00.00	3.5X
RMO	26.24	296	eP	54	05.00	0.2
STK	28.27	279	iPc	54	25.50	2.3
	1.3s	54.00nm				5.1mb
			e	57	34.20	
OLP	29.29	291	eP	54	32.50	0.0
CTA	32.35	302	iPd	55	00.00	1.3
	1.2s	234.38nm				5.9mb

			iS	00	30.00	
OIS	36.42	294	eP	55	33.90	-0.5
SBA	36.64	183	iPc	55	38.10	2.5
AFR	38.47	62	eP	55	51.00	-0.6
	0.8s		20.00nm			5.0mb
ASPA	38.47	285	ePc	55	50.70	-1.0
	1.6s		113.00nm			5.4mb
PAE	38.51	63	eP	55	52.00	0.0
	0.8s		15.00nm			4.9mb
PPT	38.58	63	eP	55	52.00	-0.6
	0.8s		20.00nm			5.0mb
TVO	38.65	63	eP	55	55.00	1.8
	0.8s		15.00nm			4.9mb
PPN	38.70	63	eP	55	53.00	-0.6
	0.8s		10.00nm			4.7mb
PMG	40.27	315	eP	56	06.50	-0.1
	0.8s		231.34nm			6.0mb
WRA	40.51	289	P	56	08.30	-0.2
WARB	42.39	275	eP	56	24.00	0.1
	0.4s		2.00nm			4.2mb X
MTN	47.59	294	iPd	57	04.50	-1.0
MRWA	48.77	265	eP	57	13.00	-1.6
MBL	50.37	276	eP	57	25.00	-2.0
	0.6s		10.00nm			5.0mb
NANU	52.77	272	eP	57	42.00	-3.1X
MAW	59.92	204	eP	58	34.00	-1.6
GUA	61.37	326	eP	58	44.80	-1.2
	1.0s		256.00nm			6.3mb
GUMO	61.44	326	eP	58	45.30	-1.1
	1.0s		248.00nm			6.3mb
Z	19s		1.06um			5.0Msz
PJG	61.44	326	eP	58	44.80	-1.6
TRT	64.29	283	ePc	59	05.20	-0.3
HON	67.33	27	P	59	30.00	5.4X
Z	22s		0.83um			4.9Msz
KKM	71.41	296	ePd	59	47.00	-3.1X
	1.3s		160.30nm			5.9mb
IPM	81.08	284	ePc	00	43.90	-0.5
	1.2s		88.80nm			5.6mb
SNG	83.14	286	eP	00	55.60	0.6
	1.2s		156.25nm			6.0mb
PEL	84.32	130	eP	01	00.70	-0.2
MAT	84.62	331	eP	01	03.00	1.0
	1.3s		26.92nm			5.3mb
			eS	11	38.00	
PCT	87.72	292	eP	01	12.00	-5.6X
	1.1s		49.90nm			5.7mb
LOE	89.38	294	eP	01	27.00	1.4
NJ2	89.58	315	eP	01	24.30	-1.9
Z	20s		0.50um			4.9Msz
WHN	90.89	311	eP	01	33.00	0.7
BDT	91.15	292	eP	01	30.80	-2.9X
	1.2s		84.20nm			6.0mb
CHG	92.26	293	eP	01	40.10	1.2
	1.0s		42.50nm			5.8mb
CHTO	92.26	293	iP	01	40.00	1.1
	1.7s		137.20nm			6.1mb
			pP	01	45.50	17kmX
GYA	92.48	304	P	01	42.40	2.5
XAN	96.56	310	eP	02	00.00	1.7
ZOBO	98.22	120	P	02	07.00	0.0
Z	22s		0.40um			4.9Msz
			SKS	12	48.00	
			LR	34	44.00	
CMB	98.68	46	P	02	10.00	2.2
	0.9s		4.42nm			5.0mb
TNP	100.46	48	Pdiff	02	18.20	2.0X
	0.8s		3.92nm			5.0mb
LZH	100.95	309	ePdiff	02	19.50	1.1
Z	20s		0.49um			5.0Msz
ALO	104.72	56	ePdiff	02	37.00	1.8
Z	18s		1.72um			5.6Msz
ANMO	104.72	56	Pdiff	02	40.00	4.8X
Z	20s		1.06um			5.4Msz
GOL	108.41	53	PKP	07	06.00	

KER	138.77	278	ePKP	07 11 04.00	-14.4X
			e	38 55.00	
TAB	140.84	282	e(PKP)	08 01.00	1.9X
			e	11 32.00	
DAG	144.12	5	iPKPd	07 58.90	-4.5X
	0.7s	22.83nm			
LIC	144.89	180	PKP	08 02.80	-3.7X
Z	22s	0.85um			5.5msz
KIC	145.03	181	PKPd	08 03.40	-3.4X
CSTJ	145.12	266	PKPd	08 05.40	-1.2
TIC	145.31	180	PKP	08 04.30	-3.0X
JRSJ	145.78	264	PKPd	08 07.60	0.0
PRNI	145.99	264	ePKP	08 06.30	-1.7
DSI	146.31	266	ePKP	08 07.70	-0.7
SHMJ	146.56	268	PKPd	08 09.70	0.9
MML	146.69	268	ePKP	08 10.80	1.7
KEV	147.17	340	iPKP	08 08.90	0.3
	1.2s	86.70nm			
HLW	148.47	260	ePKP	08 11.50	-0.4
SOD	148.86	337	iPKP	08 14.00	2.6X
			i	08 18.40	
KVT	149.32	283	iPKP	08 16.00	3.0X
BCK	152.32	273	ePKP	08 22.00	4.4X
ALT	153.18	277	ePKP	08 23.90	5.1X
NUR	153.69	326	iPKP	08 25.70	7.1X
	1.0s	48.00nm			
HRT	153.95	280	ePKP	08 27.00	7.3X
VRI	156.69	292	ePKP	08 22.00	-1.2
MLR	157.24	291	ePKP	08 23.00	-1.1
CMP	157.87	290	ePKPc	08 38.00	13.3X
SKO	160.25	280	ePKP	08 22.30	-5.1X
			i	08 26.60	
			i	09 08.50	
BZS	160.28	291	ePKP	08 20.00	-7.2X
OHR	160.60	278	ePKP	08 24.00	-3.8X
			e	09 04.00	
KRA	160.65	305	ePKP	08 27.00	-0.5
			e	09 09.00	
SPC	160.69	302	ePKP	08 25.50	-2.3X
			i	09 10.10	
BEO	161.12	289	ePKP	08 28.00	-0.1
ZST	162.95	301	ePKP	08 29.90	0.1
			e	08 37.60	
			e	09 20.40	
			e	15 01.50	
SOI	163.43	265	PKP	08 32.00	1.4
BRG	163.88	312	ePKP	08 30.60	-0.1
	1.6s	28.00nm			
			i	08 39.80	
			i	09 23.20	
			e	13 16.60	
CLL	164.18	315	ePKP	08 31.00	0.1
			e	09 31.00	
PTJ	164.19	293	ePKP	08 28.70	-2.6X
LJU	165.14	294	e(PKP)	08 29.00	-3.0X
			e	09 31.00	
VOY	165.58	295	e(PKP)	08 32.20	-0.3
			e	09 29.10	
WATA	166.76	302	ePKP	08 39.00	5.5X
	1.5s	35.00nm			
			e	09 36.00	
			i	09 45.80	
			e	13 26.00	
SOTA	167.04	302	ePKP	08 54.00	20.4X
	1.1s	24.80nm			
			i	09 38.10	
			i	09 56.40	
			e	13 28.10	
DOU	169.08	325	ePKP	08 43.00	8.3X
TOL	178.23	206	ePKP		

FRF	1.32	342	Pn	27	28.00	-0.3
			Sn	27	42.60	
PGF	1.34	79	Pg	27	28.68	0.0
			Sg	27	44.95	
CALN	1.46	351	Pg	27	30.63	0.2
SBF	1.56	6	Pn	27	31.50	-0.3
			Sn	27	51.00	
AURF	1.58	3	Pg	27	32.01	-0.1
			Sg	27	51.88	
MVIF	1.59	358	Pg	27	32.62	0.4
			Sg	27	52.06	
AUTN	1.70	5	Pg	27	33.81	-0.1
TOUF	1.71	1	Pg	27	34.18	0.2
			Sg	27	54.87	

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

% OCT 05, 1990 01h 36m 17.09±0.80s
 39.856 N ± 6.7km 28.291 E ± 5.5km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.8 (ISK).

DST	0.36	134	iPg	36	23.70	-0.8
			iSg	36	27.70	
KCT	0.40	7	iPg	36	24.90	-0.3
BNT	0.57	330	iPg	36	28.40	-0.3
			iSg	36	36.00	
EDC	0.59	326	iPg	36	28.50	-0.5
			iSg	36	36.50	
KGT	0.96	308	iPg	36	34.00	-1.4
			iSg	36	47.40	
IZI	1.03	62	iPn	36	36.50	0.0
YLV	1.09	49	iPn	36	37.40	-0.2
CTT	1.29	5	iPn	36	41.20	0.1
ISK	1.34	26	iPn	36	42.80	1.0
HRT	1.43	47	iPn	36	43.80	0.7
EZN	1.51	269	ePn	36	46.00	1.8

S.D. = 1.0 on 11 of 11 obs.

% OCT 05, 1990 01h 52m 52.88s
 59.956 N 151.395 W
 DEPTH = 64.1km
 3.2mb (1 obs.)
 KENAI PENINSULA, ALASKA (14)
 <AGS-P>.

NNL	0.10	30	iP	53	03.21	2.3
HOM	0.32	203	iP	53	03.66	-0.1
CNPM	0.44	169	iP	53	04.25	-0.5
			eS	53	13.07	
XLV	0.53	198	iP	53	04.59	-1.1
NKA	0.79	6	iP	53	10.15	1.5
RDT	0.80	321	eP	53	08.13	-0.7
			eS	53	20.25	
SLKM	0.81	46	iP	53	08.43	-0.5
RSO	0.85	307	iP	53	08.99	-0.6
OPT	0.98	253	eP	53	10.24	-0.8
			eS	53	22.89	
SEW	0.99	81	iP	53	10.07	-1.1
			eS	53	23.98	
AUE	1.17	240	eP	53	12.93	-0.6
			eS	53	29.10	
AUH	1.20	241	eP	53	13.44	-0.6
			eS	53	28.85	
AUI	1.21	240	eP	53	13.26	-0.8
SPU	1.27	345	iP	53	14.54	-0.5
			eS	53	31.65	
CKL	1.33	340	iP	53	15.40	-0.5
CRP	1.37	344	eP	53	16.26	-0.2
CGLM	1.39	348	iP	53	16.40	-0.3
			eS	53	34.74	
BGL	1.40	340	iP	53	16.61	-0.2
			eS	53	35.50	
PDB	1.42	264	iP	53	15.64	-1.4
			eS	53	33.34	
NCG	1.50	346	iP	53	18.02	-0.2
			eS	53	37.58	
CDD	1.54	229	iP	53	17.55	-1.1
SUA	1.55	12	iP	53	18.58	-0.3
PMS	1.58	34	iP	53	19.02	-0.2
MCNL	1.69	244	eP	53	19.01	-1.6
			eS	53	38.91	
PWA	1.86	23	eP	53	22.51	-0.5
KNIM	1.87	76	iP	53	21.36	-1.9
			eS	53	42.92	
MTU	1.88	87	eP	53	21.70	-1.7
PLRM	1.98	33	iP	53	23.89	-0.8

PMR	1.98	33	iPd	53	23.90	-0.8
SKT	2.03	358	iP	53	25.31	-0.2
GHO	2.19	32	iP	53	26.84	-0.9
KDC	2.29	195	ePd	53	26.30	-2.7
GLI	2.33	65	iP	53	27.15	-2.4
SML	2.39	38	eP	53	29.48	-1.0
SVW	2.39	301	iPc	53	28.40	-2.1
CUT	2.52	12	eP	53	31.69	-0.5
MID	2.62	99	eP	53	31.91	-1.7
SCM	2.74	45	eP	53	34.27	-1.1
VLZ	2.77	63	eP	53	33.95	-1.7
KLU	3.10	58	iP	53	38.86	-1.7
HUR	3.15	15	iP	53	41.36	0.2
TOA	3.33	47	iPc	53	43.10	-0.7
RND	3.67	18	eP	53	47.57	-0.9
TTA	3.72	325	eP	53	45.70	-3.5
SDG	3.83	45	eP	53	49.03	-1.6
MCK	3.97	16	eP	53	51.77	-0.8
GLB	4.01	65	eP	53	50.61	-2.7
PAX	4.15	41	eP	53	53.45	-1.8
TGL	4.33	76	eP	53	54.41	-3.4
BALM	4.61	72	eP	53	58.24	-3.5
DDM	4.65	32	eP	54	02.19	-0.1
NEA	4.76	12	eP	54	00.97	-2.8
WRH	4.79	17	eP	54	01.81	-2.3
HDA	4.93	23	eP	54	03.96	-2.1
CCB	5.00	18	eP	54	04.75	-2.3
DOT	5.08	40	eP	54	06.29	-2.0
F8A	5.24	17	eP	54	08.30	-2.1
GLM	5.38	18	eP	54	10.05	-2.5
BCPM	5.91	85	eP	54	17.16	-2.7
YKU	5.91	89	eP	54	18.82	-1.0
PNL	6.06	88	eP	54	17.82	-4.2
IMA	6.22	351	eP	54	22.00	-2.3
HON	6.36	89	eP	54	21.96	-4.1
SIT	8.90	102	eP	54	56.30	-4.8
YKA	17.73	66	eP	56	54.70	-1.8

0.6s 1.10nm 3.2mb
65 obs. associated

OCT 05, 1990 02h 01m 57.91±0.67s
 48.338 N ± 4.6km 7.494 E ± 5.9km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.3 (LDG). MD 1.8 (STR).

WLS	0.12	309	Pg	02	00.81	-0.1
			Sg	02	02.54	
ECH	0.26	241	Pg	02	03.33	0.0
			Sg	02	06.78	
MOF	0.54	207	Pg	02	08.85	-0.1
			Sg	02	16.16	
FEL	0.58	143	ePg	02	09.53	-0.2
GWf	0.65	8	Pg	02	11.00	0.1
			Sg	02	18.98	
BSF	0.69	223	Pg	02	11.40	-0.3
			Sg	02	20.30	
HAU	0.84	247	Pg	02	14.00	-0.1
			Sg	02	25.60	
VITF	1.02	264	Pg	02	17.18	0.1
			Sg	02	31.68	
LOMF	1.09	205	Pg	02	18.96	0.6
			Sg	02	33.60	
LDR	2.67	248	Pg	02	48.20	6.4X
			Sg	03	22.90	
LBF	2.74	242	Pg	02	49.90	7.2X
			Sg	03	24.90	
SMF	3.00	237	Pg	02	54.60	8.2X
			Sg	03	32.30	

S.D. = 0.3 on 9 of 12 obs.

% OCT 05, 1990 02h 11m 17.69s
 63.437 N 151.067 W
 DEPTH = 11.9km
 CENTRAL ALASKA (1)
 <AGS-P>.

HUR	0.80	125	iP	11	32.89	-0.1
			eS	11	43.74	
RND	1.00	91	eP	11	36.33	-0.1
			eS	11	50.53	
MCK	1.00	72	eP	11	36.47	0.0
			eS	11	50.78	
CUT	1.10	160	eP	11	38.02	-0.1
NEA	1.44	37	eP	11	44.15	0.6
			eS	12	03.07	
SKT	1.48	189	eP	11	44.23	0.1

WRH	1.67	50	eP	11	45.17	-1.8
PWA	1.88	162	eP	11	49.96	0.1
CCB	1.88	48	eP	11	48.11	-1.8
GHO	1.94	148	eP	11	50.68	-0.2
SUA	1.99	176	eP	11	51.69	0.1
FBA	2.05	43	eP	11	54.16	1.8
PLRM	2.06	153	eP	11	52.30	-0.2
HDA	2.06	60	eP	11	50.76	-1.8
SML	2.07	141	eP	11	52.34	-0.3
NCG	2.10	194	eP	11	52.67	-0.6
CGLM	2.18	192	eP	11	54.86	0.5
CRP	2.24	194	eP	11	55.73	0.5
GLM	2.24	44	eP	11	53.53	-1.6
BGL	2.27	196	eP	11	56.23	0.6
PMS	2.31	162	eP	11	57.10	0.9
SPU	2.31	192	eP	11	56.66	0.5
CKL	2.33	195	eP	11	56.95	0.5
SCM	2.36	131	eP	11	59.45	2.5
PAX	2.58	98	eP	12	01.99	2.0
TOA	2.62	119	eP	12	00.52	0.0
SDG	2.68	107	eP	12	02.06	0.6
IMA	2.87	338	eP	12	03.63	-0.6
RDT	2.94	193	eP	12	05.71	0.6
KLU	3.09	127	eP	12	08.40	1.2
GLI	3.17	142	eP	12	09.21	0.9
VZW	3.19	136	eP	12	09.46	0.9
VLZ	3.20	134	eP	12	09.41	0.7
SEW	3.43	166	eP	12	14.88	2.9
KNIM	3.48	152	eP	12	12.01	-0.7

35 obs. associated

% OCT 05, 1990 02h 17m 19.27±0.58s
 29.588 S ± 6.3km 68.831 W ± 15.1km
 DEPTH = 120.6 ± 13.5 km
 SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	1.76	170	iP	17	49.50	-0.8
RTCB	1.89	179	iPc	17	51.80	-0.2
ZON	1.96	176	iPc	17	53.20	0.5
			eS	18	18.20	
RTBS	2.14	194	iPc	17	56.10	1.2
RTCV	2.28	174	iPd	17	56.20	-0.6
MDZ	3.29	180	eP	18	10.80	0.7
			i	18	38.10	
JACH	3.43	206	iPc	18	13.90	1.7
			iS	18	55.50	
ROCH	3.86	208	iPc	18	18.00	0.0
			iS	19	03.30	
PEL	3.88	204	iP	18	18.50	0.3
			i	18	54.50	
FCH	3.93	198	iPd	18	20.10	1.0
			i	18	56.60	
PCH	4.27	199	iPc	18	23.50	0.0
			iS	19	14.00	
TACH	4.43	203	iPd	18	24.50	-1.1
			i	19	17.00	
CHCH	4.60	199	eP	18	27.00	-0.9
			iS	19	22.80	
LNv	4.88	206	ePc	18	29.50	-2.1
			i	18	45.50	
ANT	6.03	346	eP	18	48.00	0.6
CNCB	12.74	4	eP	20	18.00	0.2
			e	21	18.00	
LPB	13.01	3	(P)	20	20.00	-1.1
			e	21	22.00	
ARE	13.29	349	iPc	20	30.00	5.4X
			iS	20	47.00	
LWI	95.54	96	iPd	30	33.10	0.6
S.D. = 1.1 on 18 of 19 obs.						

05d 03h

RDP 0.94 220 P eSg 00 31.90
 00 18.10 1.3
 ARV 1.10 337 P eSg 00 31.60
 00 20.10 0.6
 eSn 00 36.70
 S.D. = 1.0 on 8 of 8 obs.

& OCT 05, 1990 03h 17m 54.80s
 32.470 N 115.440 W
 DEPTH = 16.0km
 CALIFORNIA-MEXICO BORDER REGION (45)
 <PAS-P>. ML 3.1 (PAS).

IKP 0.59 288 ePd 18 06.40 0.0
 eS 18 14.30
 GLA 0.78 42 iPc 18 08.60 -0.9
 2 obs. associated

* OCT 05, 1990 05h 06m 40.97 ± 1.85s
 23.087 N ± 11.5km 121.507 E ± 14.1km
 DEPTH = 10.0km (geophysicist)
 TAIWAN (244)

TWF1 0.33 324 iPd 06 48.10 0.3
 eS 06 52.30
 TWG 0.48 237 iPc 06 50.90 0.2
 eS 06 58.80
 TWK 0.95 281 iPc 06 58.80 -0.4
 eS 07 11.50
 TWD 0.99 5 ePc 06 59.50 -0.3
 eS 07 12.60
 TWC 1.55 12 eP 07 08.70 0.1
 MAT 19.70 43 eP 11 27.00 13.5X
 S.D. = 0.4 on 5 of 6 obs.

* OCT 05, 1990 05h 07m 24.52 ± 1.10s
 17.803 S ± 20.3km 167.453 E ± 11.2km
 DEPTH = 33.0km (normal)
 4.7mb (1 obs.)
 VANUATU ISLANDS (186)

BKM 0.77 80 iP 07 38.50 -0.4
 iS 07 52.00
 PVC 0.82 86 iP 07 40.00 0.4
 iS 07 52.90
 DZM 4.35 192 iPc 08 30.20 0.1
 iS 09 22.10
 CAN 23.95 220 eP 12 43.70 7.0X
 WB5 31.35 261 eP 13 46.00 1.5
 ASPA 31.87 254 eP 13 47.50 -1.5
 0.5s 5.40nm 4.7mb
 Z 24s 0.10um 3.4MszX
 LR 25 16.00
 S.D. = 1.5 on 5 of 6 obs.

? OCT 05, 1990 05h 56m 45.27 ± 3.16s
 38.004 N ± 10.4km 98.825 E ± 33.0km
 DEPTH = 10.0km (geophysicist)
 QINGHAI PROVINCE, CHINA (325)
 ML 4.0 (BJI).

GTA 1.60 29 iPqd 57 13.70 -0.1
 Z 10s 1.30um
 Sg 57 39.50
 LZH 4.45 114 Pnc 57 55.00 0.5
 Z 12s 0.75um
 E 11s 0.83um

Pg 58 07.00
 Sn 58 50.00
 Sg 59 10.00
 CDZ 8.16 149 eP 58 47.00 0.3
 BTO 9.06 70 eP 58 59.50 0.4
 N 10s 0.40um
 E 10s 0.30um

XAN 9.08 113 P 58 56.50 -2.9X
 WMO 10.23 308 P 59 01.80 -13.4X
 Z 12s 0.50um
 S 00 57.00
 HHC 10.26 70 eP 59 09.00 -6.7X
 TIY 10.77 87 eP 59 17.40 -5.2X
 Z 16s 0.60um
 E 16s 1.00um

GYA 13.28 148 P 59 51.00 -5.5X
 WHN 14.83 116 eP 00 15.50 -1.2
 PKI 15.33 231 P 00 00.00 -23.6X
 S.D. = 1.0 on 5 of 11 obs.

% OCT 05, 1990 06h 03m 46.94 ± 1.26s
 16.974 N ± 12.3km 99.668 W ± 13.5km
 DEPTH = 33.0km (normal)
 NEAR COAST OF GUERRERO, MEXICO (58)

ACX 0.21 240 iP 03 53.34 -0.3
 iS 03 59.72
 III 1.41 8 iP 04 09.52 -1.1
 iS 04 27.86
 PPM 2.31 25 iP 04 22.34 -1.5
 (S) 04 54.00
 UNM 2.39 11 (P) 04 26.00 1.1
 (S) 05 02.00
 IIT 2.41 32 (P) 04 24.80 -0.4
 IIJ 2.75 359 (P) 04 31.72 1.6
 (S) 05 08.00
 OXX 2.82 87 iP 04 31.52 0.7
 (S) 05 06.00
 MRX 3.08 332 iP 04 39.60 5.3X
 (S) 05 18.50
 S.D. = 1.4 on 7 of 8 obs.

& OCT 05, 1990 06h 04m 18.00s
 37.057 N 122.032 W
 DEPTH = 11.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 3.9 (BRK).
 Mo=4.3*10**14 Nm (BRK). Felt (V)
 at Aptos, Santa Cruz and Scotts
 Valley; (IV) at Brookdale,
 Davenport, Redwood Estates and
 Soquel; (III) at Loma Mar and
 San Carlos.

GCC 0.04 134 iPc 04 19.80 -0.4
 MHC 0.42 48 iPd 04 26.60 -0.1
 ARN 0.49 54 iPc 04 27.60 -0.5
 PCC 0.52 328 iP 04 27.80 -0.8
 SAO 0.55 122 iPc 04 27.90 -1.3
 BKS 0.83 349 iPd 04 33.20 -0.8
 iS 04 44.40
 BRK 0.83 348 iPd 04 33.60 -0.4
 iS 04 44.70
 PRS 0.90 143 iPd 04 34.60 -0.5
 ZSP 0.90 349 ePd 04 34.50 -0.7
 LLA 0.98 116 iPc 04 35.40 -1.1
 PRI 1.43 129 eP 04 43.00 -1.0
 NWRM 1.55 334 eP 04 43.00 -2.6
 CMB 1.63 53 ePc 04 45.20 -1.6
 PKEM 1.84 122 eP 04 48.40 -1.4
 FRI 1.86 91 ePc 04 48.20 -1.8
 BCH 2.44 139 eP 04 56.00 -2.6
 ORV 2.53 9 eP 04 57.40 -2.2
 ABL 3.17 133 eP 05 06.00 -3.0
 TNP 3.96 74 eP 05 18.40 -1.8
 19 obs. associated

OCT 05, 1990 06h 16m 38.13 ± 0.57s
 40.305 N ± 6.4km 25.832 E ± 5.6km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)
 MD 3.3 (ISK).

EZN 0.61 141 ePg 16 50.00 -0.4
 eSg 16 58.30
 RDO 0.87 345 iPc 16 53.20 -1.6
 eS 17 05.00
 PRK 1.11 162 eP 16 59.20 0.3
 eS 17 15.50
 KGT 1.13 82 iPq 16 58.80 -0.6
 KDZ 1.38 347 iPd 17 02.00 -1.4
 iS 17 20.00
 EDC 1.55 88 ePn 17 06.00 0.1
 BNT 1.60 87 iPn 17 07.20 0.7
 RZN 1.62 329 eP 17 07.00 0.0
 iSg 17 28.00
 PLG 1.83 273 eP 17 10.00 0.2
 PLD 1.99 335 eP 17 14.00 1.8
 iS 17 41.00
 MMB 2.05 310 eP 17 13.00 0.0
 eS 17 39.00
 DMK 2.10 43 ePn 17 16.00 2.2
 CTT 2.15 66 ePn 17 13.70 -0.8
 DST 2.26 107 ePn 17 15.50 -0.7
 PGB 2.57 331 eP 17 25.00 4.5X
 eS 17 59.00
 KKB 2.60 308 eP 17 21.00 0.1

iS 17 55.00
 PVL 2.93 353 eP 17 31.00 5.4X
 eS 18 09.00
 VTS 3.02 320 eP 17 32.00 5.0X
 iSg 18 13.00
 S.D. = 1.1 on 15 of 18 obs.

? OCT 05, 1990 06h 33m 17.75 ± 3.03s
 32.697 S ± 17.5km 178.257 E ± 62.2km
 DEPTH = 262.1 ± 37.2 km
 4.6mb (2 obs.)
 SOUTH OF KERMADEC ISLANDS (179)

HBZ 4.89 180 eP 34 35.60 2.5
 0.2s 17.00nm
 PUZ 5.36 180 eP 34 37.60 -1.3
 eS 35 46.50
 NOZ 5.91 182 eP 34 45.80 0.2
 WHH 6.34 193 eP 34 54.50 3.5X
 PGZ 8.07 191 eP 35 12.30 -0.2
 MNG 8.21 195 eP 35 11.50 -3.0
 eS 36 50.70
 KIW 8.58 197 eP 35 19.40 0.3
 MTW 8.73 194 eP 35 20.50 -0.5
 WDW 8.94 196 eP 35 22.80 -0.9
 THZ 10.00 204 eP 35 38.90 1.7
 KHZ 10.40 200 eP 35 42.30 0.3
 0.3s 28.00nm 4.9mb
 LTZ 11.12 203 eP 35 52.00 0.8
 MQZ 11.84 200 eP 35 59.90 -0.1
 eS 38 14.20
 DZM 14.89 312 iPc 36 37.30 -0.3
 ASPA 39.88 271 iPc 40 28.70 0.8
 0.9s 14.70nm 4.4mb
 WB5 41.09 277 eP 40 37.30 -0.5
 S.D. = 1.4 on 15 of 16 obs.

% OCT 05, 1990 06h 43m 44.82 ± 2.57s
 44.939 N ± 7.6km 6.709 E ± 22.6km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.0 (GEN).

RRL 0.06 110 P 43 46.45 -0.8
 S 43 48.20
 BHB 0.41 104 P 43 53.43 0.3
 S 43 59.37
 PZZ 0.52 147 P 43 54.45 -0.9
 S 44 01.22
 LSD 0.61 31 P 43 57.22 0.0
 S 44 05.83
 STV 0.82 147 P 44 01.63 0.8
 ENR 0.88 144 P 44 02.35 0.6
 S.D. = 0.9 on 6 of 6 obs.

% OCT 05, 1990 07h 36m 48.26 ± 0.88s
 17.012 N ± 7.7km 99.813 W ± 11.6km
 DEPTH = 10.0km (geophysicist)
 GUERRERO, MEXICO (59)

ACX 0.15 197 iP 36 51.49 -0.2
 iS 36 56.43
 III 1.40 14 iP 37 13.95 0.0
 iS 37 37.44
 PPM 2.33 29 iP 37 26.50 -1.3
 (S) 38 08.42
 UNM 2.38 14 (P) 37 31.50 3.3X
 (S) 38 04.00
 CRX 2.39 3 (P) 37 38.00 9.7X
 IIT 2.46 35 iP 37 33.22 3.9X
 (S) 38 12.20
 IIJ 2.71 2 iP 37 33.50 0.4
 iS 38 08.00
 OXX 2.96 88 iP 37 37.02 0.7
 (S) 38 29.00
 MRX 2.98 334 iP 37 36.88 0.5
 iS 38 15.87
 LVVM 4.19 49 (P) 38 05.91 12.3X
 (S) 39 10.33
 S.D. = 0.9 on 6 of 10 obs.

OCT 05, 1990 08h 43m 29.71 ± 1.35s
 2.924 N ± 7.2km 96.324 E ± 7.4km
 DEPTH = 50.2 ± 12.4 km
 4.7mb (9 obs.)
 NORTHERN SUMATRA (706)

BSI 2.75 338 ePd 44 12.50 0.1
IPM 4.97 71 e(S) 44 22.50 0.3
0.6s 56.60nm
SNG 6.01 45 eP 44 58.00 -0.3
1.1s 232.91nm 5.5mb
KGM 7.05 97 eP 45 12.50 -0.4
CHG 16.00 9 eP 47 14.40 1.3
CHTO 16.00 9 eP 47 12.10 -1.0
KOD 20.08 292 eP 48 02.30 0.1
GBA 21.47 301 Pc 48 15.80 -0.3
0.6s 8.50nm 4.3mb
KMI 22.92 15 eP 48 33.50 2.8
pP 48 43.50 37kmX
GYA 25.42 22 P 48 53.80 -0.7
PKI 26.64 338 P 49 05.40 -0.6
GUN 26.77 339 P 49 06.00 -1.3
GKN 27.32 337 P 49 11.00 -1.1
CD2 28.71 13 eP 49 24.00 -0.4
XAN 33.11 19 P 50 00.00 -3.2X
GTA 36.46 5 Pc 50 30.80 -1.0
0.8s 10.00nm 4.8mb
QUE 38.84 317 eP 50 53.70 1.6
MUN 39.52 153 eP 50 59.00 1.6
HHC 40.18 18 P 51 04.60 1.7
NNAO 40.78 153 eP 51 04.00 -3.8X
BJI 41.09 23 eP 51 10.50 0.3
0.7s 9.00nm 4.6mb
COOL 41.11 147 eP 51 11.00 0.4
WMO 41.44 351 P 51 13.80 0.6
WB5 43.69 123 eP 51 30.70 -1.1
ASPA 45.13 128 eP 51 42.30 -1.1
0.4s 5.10nm 4.7mb
MAIO 47.50 319 eP 52 02.00 0.0
STK 55.16 133 eP 52 58.60 -1.1
1.2s 4.00nm 4.3mb
MBH 63.89 302 eP 53 59.00 -0.9
PRNI 63.91 302 eP 53 59.00 -1.1
CIR 67.66 246 iPc 54 25.20 1.0
KRI 68.68 251 iPc 54 34.00 3.3X
BUL 70.21 248 iPc 54 40.50 0.4
1.0s 15.00nm 4.9mb
VRI 73.77 317 ePc 55 05.00 4.4X
MLR 74.22 316 eP 55 03.00 -0.4
SOD 79.58 338 iP 55 32.70 0.0
ZST 80.64 318 e(P) 55 51.20 12.5X
BRG 82.93 321 eP 56 02.90 12.3X
1.2s 15.00nm
HFS 83.80 330 eP 55 54.00 -0.8
0.5s 1.50nm 4.3mb
NB2 85.08 331 P 56 01.20 -0.1
1.1s 8.80nm 4.8mb
PPD 143.28 236 (PKP) 02 58.00 -3.0X
CNCB 159.30 227 ePKP 03 18.00 -7.2X
LPB 159.57 228 (PKP) 03 22.00 -3.3X
ZOBO 159.75 228 PKP 03 27.00 1.3
i 04 07.00
S.D. = 1.1 on 34 of 43 obs.

% OCT 05, 1990 09h 16m 30.81 ± 0.85s
39.132 N ± 6.6km 27.631 E ± 8.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.5 (ISK).

IZM 0.79 202 ePg 16 46.00 -0.2
eSg 16 57.00
DST 0.91 58 iPn 16 48.50 0.3
EZM 1.22 305 ePn 16 54.00 0.4
EDC 1.23 8 ePn 16 53.00 -0.6
BNT 1.24 10 ePn 16 54.20 0.3
KGT 1.34 349 iPn 16 55.20 -0.3
S.D. = 0.5 on 6 of 6 obs.

OCT 05, 1990 09h 46m 45.65 ± 0.76s
44.502 N ± 4.7km 114.148 W ± 7.1km
DEPTH = 5.0km (geophysicist)
WESTERN IDAHO (33)
ML 3.1 (BUT). Felt (III) at
Ellis. Also felt at Challis.

MCMT 0.98 70 iPc 47 05.00 0.0
HPI 1.09 136 P 47 06.80 -0.1
S 47 22.50
JGI 1.13 111 P 47 07.20 -0.3

CBTI 1.43 141 P 47 12.10 -0.4
LTMT 1.46 88 ePn 47 13.80 0.9
HBMT 1.69 40 ePn 47 16.30 0.1
LRM 1.78 42 ePn 47 17.70 0.1
BUT 1.88 36 ePg 47 21.70 2.8X
eSn 47 43.40
eSg 47 47.10
PTI 2.08 141 P 47 22.00 0.2
MEMT 2.51 63 ePn 47 28.10 0.1
SXM 2.65 51 ePn 47 29.50 -0.5
HRY 2.74 36 ePn 47 30.80 -0.4
BW06 3.75 116 P 47 49.00 3.3X
DPW 4.39 322 P 47 54.70 0.2
S.D. = 0.4 on 12 of 14 obs.

* OCT 05, 1990 09h 57m 01.86 ± 0.80s
42.526 N ± 9.2km 19.410 E ± 6.2km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.1 (TTG).

TTG 0.15 229 iPgd 57 05.90 0.7
eSg 57 09.60
NKY 0.42 313 ePg 57 10.50 0.1
eSg 57 17.50
PVY 0.42 80 ePg 57 10.40 -0.1
eSg 57 18.40
BDV 0.49 241 ePg 57 11.30 -0.6
eSg 57 20.80
IVA 0.50 46 ePg 57 12.00 0.0
eSg 57 20.20
OHR 1.75 143 ePn 57 34.50 2.0X
S.D. = 0.6 on 5 of 6 obs.

OCT 05, 1990 10h 16m 45.09 ± 1.06s
40.702 N ± 7.2km 29.957 E ± 7.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

HRT 0.25 299 iPg 16 50.70 0.3
GBZT 0.40 283 ePg 16 52.60 -0.6
iSg 16 59.00
YLV 0.46 253 iPg 16 53.70 -0.9
GPA 0.49 147 iPg 16 54.90 -0.2
eSg 17 01.90
IZI 0.52 226 iPg 16 55.70 0.1
iSg 17 03.70
ISK 0.77 298 ePg 17 00.20 0.1
eSg 17 10.70
CTT 1.24 292 iPn 17 08.30 0.2
KCT 1.30 250 iPn 17 10.20 1.0
DMK 2.00 305 ePn 17 19.00 -0.3
EZM 2.91 254 ePn 18 08.00 35.7X
S.D. = 0.6 on 9 of 10 obs.

* OCT 05, 1990 10h 42m 24.67 ± 0.87s
37.653 N ± 12.9km 72.107 E ± 7.9km
DEPTH = 33.0km (normal)
4.6mb (3 obs.)
TAJIK SSR (715)

QUE 8.59 211 eP 44 29.00 -0.9
eS 45 58.00
NDI 9.91 153 eP 44 49.50 1.6
MAIO 10.18 266 eP 44 52.00 0.3
eS 46 36.00
GKN 14.25 129 P 45 46.60 0.3
KKN 14.81 128 P 45 52.80 -0.8
DMN 14.83 129 P 45 54.00 0.1
0.6s 36.00nm 4.9mb X
PKI 15.04 128 P 45 56.80 0.0
0.6s 19.00nm 4.6mb
GUN 15.10 126 P 45 57.00 -0.6
0.4s 25.00nm 4.8mb
HFS 42.72 321 eP 50 20.00 0.1
0.4s 3.80nm 4.5mb
S.D. = 0.9 on 9 of 9 obs.

% OCT 05, 1990 10h 54m 07.81 ± 3.03s
39.562 N ± 26.0km 28.474 E ± 8.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

DST 0.13 70 iPg 54 10.50 -0.5
iSg 54 12.00

BNT 0.90 332 ePn 54 25.00 -0.1
EDC 0.91 329 ePg 54 24.50 -0.8
eSg 54 37.50
IZI 1.09 44 ePn 54 28.00 -0.4
YLV 1.22 34 iPn 54 30.20 -0.3
KGT 1.26 315 iPn 54 31.70 0.4
HRT 1.56 36 ePn 54 37.00 1.4
CTT 1.58 350 ePn 54 36.10 0.1
S.D. = 0.8 on 8 of 8 obs.

? OCT 05, 1990 12h 14m 17.20 ± 4.65s
40.674 N ± 7.9km 29.838 E ± 34.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.2 (ISK).

HRT 0.20 319 iPg 14 21.20 -0.4
GBZT 0.32 291 ePg 14 29.30 5.5X
YLV 0.37 253 iPg 14 24.60 -0.2
IZI 0.44 220 iPg 14 26.20 0.1
iSg 14 34.60
ISK 0.71 304 ePg 14 31.60 0.4
eSg 14 41.30
CTT 1.17 294 ePn 14 39.10 0.1
S.D. = 0.4 on 5 of 6 obs.

% OCT 05, 1990 13h 43m 27.69 ± 0.78s
36.199 N ± 9.3km 24.335 E ± 8.5km
DEPTH = 33.0km (normal)
SOUTHERN GREECE (368)

VAM 0.80 188 eP 43 43.00 0.5
eS 43 54.50
VLI 1.24 295 eP 43 49.00 0.2
APE 1.30 48 eP 43 50.00 0.4
eS 44 07.00
NPS 1.40 132 eP 43 50.50 -0.6
ITM 2.17 298 eP 44 01.70 -0.5
S.D. = 0.7 on 5 of 5 obs.

OCT 05, 1990 15h 11m 24.10 ± 1.25s
40.678 N ± 8.9km 29.951 E ± 8.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

HRT 0.26 304 iPg 11 29.50 -0.1
eSg 11 33.00
GBZT 0.40 286 ePg 11 37.50 5.2X
YLV 0.45 256 iPg 11 33.00 -0.4
iSg 11 39.50
GPA 0.47 145 iPg 11 33.70 -0.1
eSg 11 41.00
IZI 0.50 227 iPg 11 34.50 0.3
CTT 1.24 293 ePn 11 47.50 0.3
KCT 1.29 251 iPn 11 48.00 0.0
S.D. = 0.3 on 6 of 7 obs.

? OCT 05, 1990 15h 16m 26.03 ± 1.58s
28.966 S ± 19.9km 177.071 W ± 13.8km
DEPTH = 67.6 ± 13.4 km
4.6mb (7 obs.)
KERMADEC ISLANDS REGION (177)

RAO 0.79 249 P 16 42.00 -0.1
S 16 58.00
DZM 16.38 291 iPc 20 18.90 5.8X
BRS 26.60 266 iP 22 04.50 4.7X
CTA 34.40 277 iPd 23 10.20 1.2
1.1s 18.99nm 4.9mb
eS 29 05.00
STK 35.61 255 IPd 23 19.70 0.6
0.9s 4.00nm 4.3mb
ASPA 44.02 265 eP 24 28.30 -0.5
1.0s 8.60nm 4.5mb
Z 18s 0.91um 4.7msz

WB5 44.87 270 eP 24 34.90 -0.8
SPA 61.20 180 eP 26 35.60 -0.3
1.1s 8.33nm 4.8mb
MAT 77.54 325 eP 28 16.00 0.0
TNP 87.06 43 eP 29 05.90 0.3
ALO 92.05 51 eP 29 29.00 0.0
1.0s 2.50nm 4.6mb
ANMO 92.05 51 eP 29 30.20 1.2
1.0s 2.50nm 4.6mb
FBA 96.30 12 e(P) 29 46.00 -1.6

05d 15h

1.0s 0.40nm 3.9mb
 NB2 147.45 353 PKP 36 08.00 7.5X
 0.8s 4.40nm
 BBTk 153.22 302 ePKP 36 18.00 8.1X
 S.D. = 1.0 on 11 of 15 obs.

? OCT 05, 1990 15h 21m 25.17 ± 6.74s
 43.040 N ± 15.9km 5.812 E ± 54.4km
 DEPTH = 10.0km (geophysicist)
 NEAR SOUTH COAST OF FRANCE (379)
 MD 2.6 (STR).

CALN 1.06 47 Pg 21 44.97 -0.3
 Sg 21 58.75
 MVIF 1.30 48 Pn 21 49.50 0.2
 Sg 22 06.17
 REVF 1.33 58 Pn 21 49.83 0.1
 AURF 1.39 52 Pn 21 50.87 0.2
 Sg 22 08.71
 TOUF 1.43 47 Pn 21 51.19 -0.1
 PGF 2.40 101 Pn 22 05.15 0.0
 S.D. = 0.2 on 6 of 6 obs.

OCT 05, 1990 15h 43m 01.41 ± 0.23s
 47.224 N ± 6.2km 153.007 E ± 3.0km
 DEPTH = 97.4km (6 depth phases)
 4.9mb (40 obs.)

KURIL ISLANDS (221)

KUSJ 7.17 238 P 44 43.20 -2.1X
 S 45 58.70
 ASAJ 7.90 251 eP 44 57.40 2.2X
 MAT 15.31 231 (P) 46 32.00 -1.3X
 MDJ 16.49 270 eP 46 47.00 -0.9
 CN2 19.57 270 eP 47 20.00 -3.9X
 SNY 21.59 266 Pd 47 43.70 -0.6
 TIY 31.10 267 eP 49 12.50 0.1

Z 18s 0.36um 4.1msz
 TTA 32.12 42 eP 49 21.10 0.1
 0.8s 13.30nm 4.7mb

SVW 32.19 45 ePd 49 22.30 0.6
 IMA 33.47 36 ePd 49 32.80 0.0
 0.8s 17.50nm 4.9mb

KDC 33.91 51 ePd 49 35.40 -1.1
 0.7s 41.70nm 5.4mb

WHN 33.98 255 eP 49 38.50 1.1
 PMR 35.31 44 eP 49 48.80 0.4
 0.7s 51.16nm 5.6mb

XAN 35.49 264 P 49 50.10 -0.2
 FBA 35.84 39 ePd 49 53.40 0.6
 0.9s 175.00nm 6.0mb X

TOA 36.67 43 eP 50 01.00 1.0
 LZH 37.80 271 eP 50 10.00 0.1
 1.5s 28.00nm 5.0mb

GTA 38.83 278 eP 50 17.50 25kmX
 INK 41.29 33 eP 50 18.20 -0.1
 GYA 41.75 257 P 50 39.00 1.0

WMO 44.69 291 eP 51 05.40 -0.7
 LSA 50.18 273 P 51 50.60 1.2
 YKA 50.59 37 eP 51 50.90 -0.6

0.9s 7.40nm 4.7mb
 CHG 52.16 256 eP 52 05.90 1.9
 GUN 54.89 275 P 52 24.20 -0.2

PNT 54.99 53 iP 52 25.00 0.5
 KKN 55.37 275 P 52 27.80 0.1
 0.6s 33.00nm 5.5mb

PKI 55.43 275 P 52 28.20 0.0
 0.6s 19.00nm 5.3mb
 DMN 55.61 275 P 52 29.60 0.1

0.8s 70.00nm 5.7mb
 GKN 55.67 276 P 52 29.80 0.0
 WDC 58.38 63 eP 52 52.30 3.7X

MIN 59.09 63 eP 52 53.50 -0.2
 ORV 59.63 63 eP 52 57.00 -0.3
 GCC 60.90 66 eP 53 04.70 -1.2

MHC 60.92 65 eP 53 06.40 0.2
 LRM 60.97 53 eP 53 06.60 0.0
 CMB 61.26 64 eP 53 08.50 0.1

PRS 61.73 66 eP 53 11.50 0.0
 LLA 61.81 66 eP 53 12.50 0.4
 TNP 63.16 62 eP 53 21.10 -0.1

0.8s 12.06nm 4.9mb
 ISA 63.96 65 eP 53 25.00 -1.3
 CLC 64.40 64 eP 53 29.00 -0.1

BW06 64.52 54 iP 53 30.00 -0.1

0.9s 16.53nm 5.0mb
 SBB 65.00 65 eP 53 55.10 100km
 GSC 65.22 64 eP 53 33.00 0.0
 RVR 65.73 66 eP 53 34.00 -0.5
 PLM 66.48 66 eP 53 37.00 -0.6
 TPC 66.48 65 eP 53 43.00 0.4
 RSSD 66.57 50 iPc 53 43.00 0.5
 0.8s 36.06nm 5.4mb

NB2 67.76 341 P 54 08.90 103km
 0.8s 7.20nm 4.7mb

GLA 67.94 65 eP 53 52.00 0.3
 HFS 67.99 339 eP 53 49.20 -2.3
 0.7s 7.40nm 4.7mb

WB5 68.87 199 eP 53 57.00 -0.3
 e 54 21.00 93km
 ANMO 71.65 58 eP 54 15.00 0.6

0.9s 10.50nm 4.7mb
 ALO 71.65 58 eP 54 39.70 96km
 0.9s 6.09nm 4.4mb

ASPA 72.64 198 iPc 54 38.50 94km
 0.9s 11.60nm 4.7mb

EKA 75.86 346 P 54 38.00 -0.2
 0.4s 3.90nm 4.6mb

CLL 76.00 335 iP 54 38.80 -0.2
 1.1s 24.00nm 4.9mb

SIO 76.72 51 e(P) 54 43.80 0.5
 TUL 76.87 51 eP 54 44.30 0.2

Z 19s 10.00nm 4.6mb
 LR 04 28.00

ZST 77.51 332 eP 54 47.70 0.3
 DOU 79.29 340 P 54 57.70 0.6
 CDF 80.19 338 eP 55 01.20 -0.9

0.7s 12.15nm 4.8mb
 SOTA 80.20 335 iPc 55 02.90 0.7
 0.9s 20.80nm 5.0mb

FEL 80.49 337 eP 55 03.68 0.0
 HAU 80.80 338 eP 55 04.40 -0.8
 BSF 80.85 338 eP 55 04.60 -1.0

0.7s 4.40nm 4.4mb
 GRR 82.09 343 eP 55 11.70 -0.2
 1.0s 26.00nm 5.0mb

LOR 82.11 339 eP 55 11.50 -0.5
 0.7s 21.50nm 5.1mb

GRC 82.27 340 P 55 13.28 0.5
 LBF 82.34 339 eP 55 12.60 -0.7
 0.7s 7.70nm 4.7mb

SSF 82.39 340 eP 55 13.10 -0.4
 0.7s 11.60nm 4.9mb

LPF 82.47 343 eP 55 13.70 -0.1
 0.8s 13.45nm 4.9mb

AVF 82.68 340 eP 55 14.70 -0.3
 0.6s 15.35nm 5.1mb

SMF 82.70 339 eP 55 14.60 -0.5
 0.9s 34.40nm 5.3mb

LPL 83.01 337 eP 55 17.00 0.0
 0.9s 13.90nm 4.9mb

BGF 83.02 340 eP 55 16.50 -0.2
 0.5s 7.65nm 4.9mb

LPG 83.02 337 eP 55 17.40 0.3
 0.9s 12.30nm 4.8mb

PLDF 83.38 339 P 55 19.43 0.7
 MAF 83.40 340 eP 55 19.10 0.4

0.7s 32.50nm 5.4mb
 TCF 83.42 340 eP 55 18.90 0.1
 0.8s 15.45nm 5.0mb

AGO 83.42 339 P 55 20.02 1.2
 LSF 83.61 341 eP 55 19.90 0.1

0.9s 35.20nm 5.3mb
 MFF 83.65 342 eP 55 20.10 0.2
 0.8s 13.45nm 4.9mb

LBL 84.16 339 P 55 23.64 1.1
 MKT 84.21 310 eP 55 22.50 -0.6
 RJF 84.51 340 eP 55 24.60 0.3

0.9s 13.10nm 4.9mb
 CAF 84.74 340 eP 55 26.20 0.7
 PRNI 84.77 310 iPc 55 25.60 -0.3

LFF 85.03 341 eP 55 27.70 0.8
 0.6s 8.10nm 4.8mb
 LPO 85.17 340 eP 55 28.20 0.6

0.6s 9.90nm 4.9mb
 MBH 85.29 310 eP 55 28.00 -0.4
 BAO 144.00 36 ePKP 02 25.00 -2.3X

PPD 148.12 46 (PKP) 02 37.00 3.2X
 S.D. = 0.7 on 87 of 94 obs.

* OCT 05, 1990 16h 33m 12.24 ± 1.12s
 50.381 N ± 15.5km 18.929 E ± 7.9km
 DEPTH = 10.0km (geophysicist)

POLAND (548)

ML 3.9 (KRA).

KRA 0.73 116 ePg 33 26.20 -0.3
 iSg 33 36.80

SPC 1.47 144 iPn 33 39.30 0.4
 eSg 33 59.80

KSP 1.74 286 iPn 33 42.50 -0.2
 0.7s 81.00nm
 iPg 33 45.00

iS 34 07.90
 ZST 2.49 209 e(P) 33 53.50 0.0
 i 34 05.40

e 34 20.50
 i 34 24.30

PSZ 2.54 165 iP 34 01.10 6.8X
 SRO 2.60 189 iPn 34 02.80 7.8X
 i 34 29.80

i 35 25.70
 VKA 2.72 220 iP 34 03.20 6.4X
 i 34 07.00

iSg 34 33.90
 i 34 44.60

PRU 2.85 264 Pn 33 57.50 -1.0
 Pg 34 06.00
 Sn 34 30.50

Sg 34 41.00
 BUD 2.90 179 e(P) 34 12.00 12.7X
 BRG 3.21 281 iPg 34 12.00 8.3X

iSg 34 53.00
 KHC 3.69 252 Pn 34 09.90 -0.6
 Pg 34 17.00

eSn 34 51.60
 Sg 35 09.00

CLL 3.87 286 iPg 34 26.40 13.4X
 eSn 35 02.00
 iSg 35 19.30

MOX 4.67 276 ePn 34 25.00 0.5
 ePg 34 40.00
 eSn 35 19.00

eSg 35 40.00
 GRF 5.02 265 e(Pn) 34 30.50 1.2
 ePg 34 44.40

e(Sn) 35 28.50
 eSg 35 49.60
 S.D. = 0.8 on 8 of 14 obs.

OCT 05, 1990 17h 58m 18.55 ± 0.53s
 38.587 N ± 4.5km 14.380 E ± 5.8km
 DEPTH = 5.0km (geophysicist)

SICILY (398)

GIB 0.66 205 Pc 58 30.40 -1.3
 eSg 58 40.10

MNO 0.70 159 P 58 33.10 0.5
 eSg 58 44.90

ATN 0.95 116 P 58 36.80 -0.3
 eSg 58 54.20

MSI 1.00 112 P 58 39.60 1.7
 eSn 58 56.30

MCT 1.12 212 P 58 41.70 1.5
 eSn 58 57.50

SOI 1.41 111 Pd 58 44.00 -0.9
 eSn 59 05.90

FAI 1.42 203 P 58 45.70 0.6
 iSg 59 02.80

CZI 1.51 65 P 58 45.70 -0.5
 CVT 1.55 235 P 58 46.50 -0.3

MEU 1.55 163 P 58 45.60 -1.3
 eSg 59 07.10

MGR 1.80 30 P 58 50.90 0.5
 MMN 1.80 43 P 58 50.40 -0.1

eSg 59 11.80
 TDS 1.86 54 P 58 50.80 -0.6
 eSn 59 16.00

CSI 1.90 51 P 58 52.30 0.3
 eSg 59 16.50

ROI 1.97 59 P 58 53.00 0.1
 SGO 2.10 20 P 58 54.40 -0.3
 ORI 2.18 47 P 58 56.30 0.3
 S.D. = 0.9 on 17 of 17 obs.

7 OCT 05, 1990 19h 08m 40.30±1.90s
46.233 N ±27.9km 2.706 E ±11.3km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.8 (LDG).

MAF 0.10 263 Pg 08 43.50 0.5
Sg 08 45.20
TCF 0.35 279 Pg 08 47.00 -0.5
Sg 08 53.10
SMF 0.89 62 Pg 08 56.90 -0.4
Sg 09 08.50
SSF 1.00 33 Pg 08 59.60 0.4
Sg 09 12.30
S.D. = 0.9 on 4 of 4 obs.

* OCT 05, 1990 20h 42m 40.12±2.71s
40.498 N ±10.9km 127.482 W ±24.7km
DEPTH = 10.0km (geophysicist)
4.1mb (2 obs.)
OFF COAST OF NORTHERN CALIFORNIA (34)

FHC 2.68 82 eP 43 22.00 -2.1
LBFM 4.32 77 eP 43 48.00 0.4
ARN 5.60 122 eP 44 05.30 -0.3
PGO 6.18 35 P 44 13.90 0.3
VLMM 6.42 37 P 44 19.01 1.8
LVP 6.68 32 P 44 20.81 0.0
MTMW 6.73 33 P 44 20.50 -1.0
FL2 6.81 32 P 44 22.48 -0.2
SHW 6.86 32 P 44 23.34 0.1
HSR 6.86 32 P 44 23.15 -0.2
CDFW 6.87 33 P 44 22.49 -0.9
ESD 6.89 33 P 44 23.71 -0.1
ERK 6.91 31 P 44 24.03 0.1
GULW 6.92 36 P 44 25.37 1.3
CZM 6.95 30 P 44 24.89 0.4
TDL 6.99 31 P 44 25.73 0.6
VGB 7.02 42 P 44 25.68 0.2
ASR 7.09 35 P 44 26.19 -0.4
CPW 7.20 24 P 44 26.72 -1.2
LMW 7.23 30 P 44 28.30 -0.1
GLK 7.41 33 P 44 30.68 -0.3
LON 7.48 31 P 44 31.52 -0.4
WPW 7.55 33 P 44 32.13 -0.7
RVC 7.58 30 P 44 33.61 0.3
FMW 7.68 31 P 44 34.36 -0.5
GSM 7.86 30 P 44 37.53 0.3
LRM 12.19 59 eP 45 38.20 1.2
ALQ 17.52 102 eP 46 47.00 0.8
1.0s 4.50nm 3.6mb
FFC 22.15 41 eP 47 38.00 0.6
1.0s 22.00nm 4.6mb
S.D. = 0.8 on 29 of 29 obs.

% OCT 05, 1990 20h 52m 18.78±0.78s
38.975 N ±6.7km 29.767 E ±7.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

ALT 0.28 73 iPg 52 24.90 0.2
iSg 52 28.90
KHL 0.68 196 iPg 52 32.20 -0.1
iSg 52 42.20
DST 1.09 306 ePn 52 39.50 0.3
IZI 1.38 351 ePn 52 44.10 0.0
YLV 1.62 349 iPn 52 47.90 0.4
HRT 1.85 358 ePn 52 50.00 -0.8
S.D. = 0.5 on 6 of 6 obs.

OCT 05, 1990 20h 54m 48.04±1.10s
44.539 N ±6.5km 6.969 E ±11.1km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.3 (GEN).

PZZ 0.10 109 P 54 51.29 0.4
S 54 52.93
STV 0.39 139 P 54 56.01 0.0
S 55 01.34
RRL 0.40 341 P 54 56.21 -0.2
S 55 02.47
ENR 0.45 134 P 54 57.01 -0.2
S 55 02.85
RSP 0.65 18 P 55 00.79 -0.3

ROB 0.69 110 P 55 09.76
S 55 01.65 -0.1
S 55 10.69
IMI 0.91 133 P 55 05.69 0.1
S 55 18.05
LSD 0.93 8 P 55 06.36 0.4
FIN 0.95 110 P 55 06.16 0.0
S 55 18.50
PCP 1.13 89 P 55 09.04 -0.2
S.D. = 0.3 on 10 of 10 obs.

OCT 05, 1990 21h 53m 04.37±1.15s
13.926 N ±8.0km 146.335 E ±8.8km
DEPTH = 69.7 ±9.5 km
4.8mb (6 obs.)

SOUTH OF MARIANA ISLANDS (210)

GUA 1.44 255 iPc 53 29.10 0.2
eS 53 52.30
GUMO 1.47 257 iPc 53 29.40 0.1
eS 53 56.70
PJG 1.47 257 ePc 53 29.50 0.2
PMG 23.20 178 eP 58 05.00 -0.9
QIS 34.90 191 eP 59 50.80 -0.6
WBS 35.60 200 iPc 59 56.50 -0.8
BJI 37.08 320 P 00 09.00 -0.6
1.2s 16.00nm 4.8mb
Z 13s 0.47um 4.5mszx
LZH 43.93 308 eP 01 06.00 -0.3
2.0s 50.00nm 5.0mb
NANU 47.18 220 eP 01 33.20 1.2
GUN 57.65 294 P 02 50.60 0.1
PKI 58.06 294 P 02 52.80 -0.6
KKN 58.18 294 P 02 53.60 -0.4
0.8s 13.00nm 5.1mb
DMN 58.33 294 P 02 55.00 -0.2
GKN 58.75 294 P 02 57.60 -0.3
0.8s 20.00nm 5.3mb
HYB 65.06 283 eP 03 39.00 -1.1
GBA 66.69 279 Pd 03 50.10 -0.4
0.9s 3.50nm 4.3mb
INK 73.51 22 eP 04 31.00 0.0
QUE 74.07 298 eP 04 36.30 1.0
MBC 77.60 14 eP 04 53.50 -0.6
MAIO 79.39 305 eP 05 06.00 1.3
YKA 81.91 28 eP 05 18.30 1.0
0.7s 1.80nm 4.1mb
CLC 86.80 54 eP 05 42.00 -0.6
SBB 86.90 55 eP 05 43.00 -0.2
SES 87.25 39 ePd 05 43.50 -1.0
GSC 87.55 54 eP 05 47.00 0.7
LRM 87.77 43 eP 05 46.40 -1.0
LKO 143.67 308 PKP 12 29.00 -5.0X
KIC 144.92 303 PKPc 12 36.14 0.0
1.0s 45.00nm
TIC 144.99 304 PKPc 12 36.28 0.0
0.9s 43.00nm
LIC 145.23 303 PKPc 12 37.12 0.5
1.0s 49.50nm
ZOBO 146.67 98 PKP 12 40.00 0.4
LPB 146.70 99 (PKP) 12 45.00 5.5X
CNCB 146.81 99 PKP 12 42.60 2.8
S.D. = 0.9 on 31 of 33 obs.

OCT 05, 1990 22h 11m 07.59±0.66s
16.165 N ±8.9km 94.115 W ±7.8km
DEPTH = 110.9 ±7.1 km
4.5mb (10 obs.)

OAXACA, MEXICO (60)

SCX 1.53 68 iP 11 35.96 0.8
iS 11 56.00
TPX 2.18 125 iP 11 43.50 0.0
iS 12 10.00
EVV 2.57 333 iP 11 47.58 -0.9
iS 12 20.00
OXX 2.66 290 iP 11 50.82 0.8
iS 12 20.00
LVVM 4.19 328 iP 12 08.11 -2.4
iIT 4.91 306 iP 12 21.50 0.9
iS 13 20.00
PPM 5.18 305 iP 12 26.50 1.9
iS 13 23.00
ACX 5.55 278 (P) 12 28.00 -1.3
iIT 5.57 294 iP 12 29.50 -0.2
iS 13 30.00
UNM 5.77 304 (P) 13 13.00 40.5X

IIJ 6.42 304 eP 12 44.00 2.4
MRX 7.60 299 (P) 12 55.00 -2.3
MED 18.97 349 iPc 15 22.20 -0.8
SIO 19.60 355 iP 15 28.90 -0.6
TUL 19.72 356 eP 15 30.00 -0.8
0.8s 16.60nm 4.4mb
Z 19s 0.10um 4.4mszx

ALO 21.73 332 eP 15 52.50 1.3
0.8s 4.66nm 3.9mb
LRM 33.32 336 ePc 17 38.50 1.5
FFC 38.96 353 iPc 18 24.20 0.0
0.5s 19.00nm 5.2mb
ZOBO 41.18 140 P 18 43.70 0.1
LPB 41.40 140 (P) 18 46.00 0.8
CNCB 41.69 141 P 18 48.20 0.5
YKA 48.47 347 eP 19 40.00 -0.5
0.5s 7.20nm 4.8mb
PPD 56.56 131 (P) 20 39.00 -2.1
INK 57.80 344 eP 20 49.00 -0.1
VAO 60.35 129 eP 21 06.20 -1.2
MBC 61.53 353 eP 21 14.50 -0.1
0.5s 4.00nm 4.7mb
NB2 83.22 28 P 23 24.20 1.6
0.8s 5.20nm 4.5mb
HFS 84.70 29 eP 23 30.00 0.0
0.5s 1.50nm 4.2mb
HAU 84.96 42 eP 23 32.30 0.7
0.7s 4.40nm 4.5mb
KEV 85.04 17 eP 23 23.00 -8.5X
BSF 85.30 42 eP 23 34.00 0.6
0.7s 4.40nm 4.5mb
CDF 85.42 41 eP 23 34.60 0.6
0.7s 4.40nm 4.5mb
NUR 89.33 26 eP 23 51.00 -1.5
GBA 149.27 16 PKPd 30 47.40 6.4X
0.8s 3.00nm
S.D. = 1.3 on 31 of 34 obs.

* OCT 05, 1990 23h 05m 15.75±1.64s
37.794 N ±11.7km 16.129 E ±13.5km
DEPTH = 23.2 ±8.9 km
IONIAN SEA (399)

SOI 0.28 348 Pd 05 21.90 -0.5
eSg 05 26.40
MSI 0.61 312 P 05 28.20 0.5
iSg 05 36.90
ATN 0.64 305 P 05 27.50 -0.7
eSg 05 37.50
MNO 1.14 277 Pc 05 36.60 0.1
eSg 05 52.60
MEU 1.18 234 P 05 36.70 -0.2
eSn 05 52.50
CZI 1.42 0 P 05 38.40 -1.8
GIB 1.67 277 P 05 44.50 0.5
eSn 06 03.50
ROI 1.81 11 P 05 49.60 3.7X
TDS 1.87 5 P 05 47.50 0.7
CSI 1.98 4 P 05 49.20 0.7
MMN 2.10 357 P 05 50.20 0.2
SGO 2.83 347 P 06 01.00 0.6
S.D. = 0.9 on 11 of 12 obs.

OCT 05, 1990 23h 27m 25.98±0.47s
45.956 N ±3.7km 3.041 E ±4.7km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.2 (LDG), 1.7 (STR).

PYM 0.21 186 Pg 27 30.50 0.0
Sg 27 33.60
PLDF 0.40 88 Pg 27 34.50 0.2
Sg 27 40.19
MAF 0.42 309 Pg 27 34.60 0.0
Sg 27 40.30
BGF 0.62 347 Pg 27 38.20 -0.2
Sg 27 47.10
TCF 0.67 300 Pg 27 39.30 0.0
Sg 27 47.60
LBL 0.74 169 Pg 27 39.90 -0.5
AVF 0.86 14 Pg 27 42.50 -0.1
Sg 27 53.80
SMF 0.88 39 Pg 27 43.10 0.1
Sg 27 54.70
CAF 1.24 214 Pg 27 49.50 0.5
Sg 28 04.60

05d 23h

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

OCT 05, 1990 23h 43m 34.72 ± 0.15s
 10.955 S ± 3.8km 70.830 W ± 4.4km
 DEPTH = 616.1km (4 depth phases)
 4.8mb (38 obs.)

PERU-BRAZIL BORDER REGION (112)

ARE	5.51	187	iPd	45	13.70	0.2
			iS	46	21.50	
ZOBO	5.90	154	iPc	45	17.60	0.6
			S	46	32.00	
LPB	6.15	155	iPd	45	20.20	1.3
	1.0s		480.00nm			5.4mb
CNCB	6.44	155	iPd	45	22.50	0.9
ANT	12.69	178	iPc	46	20.70	0.7
PPD	21.69	123	eP	47	43.70	-1.0
			e	47	48.90	
			e	47	55.50	
PEL	22.08	180	iPc	47	47.00	-1.2
	0.7s		27.40nm			5.0mb
			i	51	07.00	
FCH	22.27	179	eP	47	49.50	-0.8
PCH	22.56	179	eP	47	51.50	-1.1
BAO	22.70	104	eP	47	54.50	0.5
			e	55	01.90	
			e	55	17.90	
			e	56	40.00	
VAO	25.73	121	eP	48	16.70	-3.9X
JFO	28.43	116	eP	48	43.20	-0.9
SOB1	29.52	89	iPc	48	53.50	0.1
			e	49	09.00	
			e	53	04.40	
CAI	33.58	85	iPd	49	27.70	0.2
SGS	44.86	348	P	50	58.00	0.4
JSC	46.06	348	P	51	06.70	-0.1
LHS	46.16	349	P	51	07.70	0.2
TKL	47.95	346	P	51	20.00	-1.1
BLA	48.75	350	P	51	27.00	0.0
NAV	48.92	349	P	51	28.00	-0.2
FVM	52.02	340	P	51	50.00	-0.8
TUL	52.23	334	iP	51	51.60	-0.7
	0.9s		20.60nm			4.5mb
MEO	52.55	331	iPd	51	53.60	-1.1
CLE	53.11	350	iP	51	57.90	-0.6
ALO	56.76	325	eP	52	23.00	-1.2
	0.9s		4.41nm			3.7mb X
			e	53	09.00	
			e	54	22.00	
ANMO	56.77	325	P	52	24.00	-0.2
CBM	57.67	2	P	52	29.60	-0.3
GLD	59.70	330	P	52	44.00	0.3
GOL	59.74	330	P	52	43.50	-0.5
	0.6s		4.12nm			3.8mb
RSSD	62.56	334	P	53	02.40	0.2
			pP	55	03.00	616km
RVR	62.86	317	eP	53	04.00	-0.1
GSC	63.28	319	eP	53	07.00	0.2
DAU	63.33	326	P	53	07.50	0.2
SBB	63.58	318	eP	53	08.00	-0.7
DUG	64.04	325	P	53	12.00	0.4
CLC	64.11	319	eP	53	12.00	0.0
BW06	64.13	329	P	53	11.50	-0.7
			pP	55	14.00	623km
ISA	64.58	318	eP	53	15.00	0.0
TNP	65.26	321	P	53	19.70	0.4
	0.7s		8.33nm			4.3mb
			pP	55	21.50	613km
PRI	66.31	318	eP	53	26.50	0.8
LLA	66.76	318	eP	53	28.00	0.5
PRS	66.88	317	eP	53	29.70	0.7
CMB	67.22	319	eP	53	31.30	0.2
MHC	67.63	318	eP	53	34.60	0.8
LIC	67.68	79	Pd	53	33.54	-0.7
	0.2s		10.50nm			4.9mb
GCC	67.69	318	eP	53	34.80	0.9
LRM	67.77	330	eP	53	35.00	0.5
TIC	67.79	78	Pd	53	34.30	-0.7
	0.2s		6.00nm			4.7mb
KIC	67.99	79	Pd	53	35.68	-0.5
	0.2s		22.00nm			5.3mb
			S	01	46.00	
LKO	68.00	75	Pd	53	33.00	-3.2X
ORV	68.81	320	eP	53	41.50	0.9
WDC	70.05	321	eP	53	46.50	-1.4
LBFM	70.10	321	P	53	48.50	0.1
NEW	71.76	329	P	53	57.50	-0.2

LON	73.26	326	P	54	06.50	0.2
PNT	73.70	329	eP	54	09.00	0.4
	0.7s		23.00nm			4.8mb
BMW	73.88	325	P	54	10.50	0.7
EVAL	76.92	47	eP	54	28.50	2.0
SPA	79.12	180	iPd	54	38.40	0.6
	0.7s		77.34nm			5.3mb
TOL	79.79	46	iPc	54	44.00	2.4
	1.3s		230.77nm			5.5mb
GUD	80.02	45	eP	54	44.00	1.1
EVIA	80.41	48	eP	54	46.80	1.9
YKA	80.68	341	eP	54	45.00	-0.6
	0.6s		27.90nm			4.9mb
ETOR	81.55	46	eP	54	52.60	1.9
EPF	84.03	44	eP	55	03.20	0.3
	1.1s		17.10nm			4.6mb
LPF	84.97	39	eP	55	06.60	-0.6
	1.0s		16.00nm			4.6mb
LFF	84.98	43	eP	55	07.30	0.0
	1.0s		34.00nm			4.9mb
MFF	85.00	41	eP	55	07.20	-0.2
	1.0s		12.00nm			4.5mb
LPO	85.18	43	eP	55	08.10	-0.3
	1.0s		24.00nm			4.8mb
GRR	85.21	39	eP	55	08.10	-0.3
	1.1s		22.00nm			4.7mb
FLN	85.59	39	eP	55	09.80	-0.4
	0.9s		22.95nm			4.9mb
RJF	85.62	42	eP	55	10.10	-0.3
	1.1s		24.40nm			4.8mb
LDF	85.74	39	eP	55	10.60	-0.3
	1.0s		20.00nm			4.8mb
CAF	85.85	43	eP	55	11.30	-0.3
	1.0s		30.00nm			5.0mb
LSF	85.95	42	eP	55	11.50	-0.5
TCF	86.41	42	eP	55	13.50	-0.8
	0.8s		6.70nm			4.4mb
MAF	86.62	42	eP	55	14.70	-0.5
	1.1s		23.20nm			4.8mb
BGF	86.92	42	eP	55	15.90	-0.7
	0.7s		11.00nm			4.7mb
AVF	87.32	41	eP	55	17.60	-0.9
	1.1s		12.20nm			4.6mb
SSF	87.51	41	eP	55	18.40	-1.0
	1.1s		9.75nm			4.5mb
SMF	87.59	42	eP	55	19.20	-0.6
	1.0s		18.00nm			4.8mb
LBF	87.79	41	eP	55	19.60	-1.1
	1.1s		11.00nm			4.6mb
LOR	87.80	41	eP	55	19.80	-0.9
	1.2s		14.90nm			4.6mb
SNF	89.10	38	P	55	26.80	0.3
DOU	89.16	39	Pc	55	27.00	0.2
	1.0s		25.00nm			5.1mb
LPL	89.17	43	eP	55	27.90	0.6
	0.6s		9.00nm			4.8mb
LPG	89.18	43	eP	55	28.00	0.5
	0.7s		12.15nm			4.9mb
BSF	89.87	41	eP	55	29.50	-0.8
CDF	90.34	41	eP	55	32.00	-0.5
INK	90.44	341	eP	55	33.00	0.6
	0.7s		22.00nm			5.2mb
MBC	91.59	350	eP	55	38.50	0.9
	0.5s		3.00nm			4.6mb
SQTA	92.60	43	iPd	55	43.10	0.1
	1.5s		30.00nm			5.1mb
			ic	55	43.50	
CLL	94.63	39	i(P)	55	52.90	1.0
MAW	94.91	164	iP	55	52.00	-1.0
BRG	95.13	39	eP	55	54.80	0.6
	1.0s		16.00nm			5.2mb
KSP	96.59	40	iP	56	01.70	0.9
ZST	96.70	42	eP	56	01.50	0.2
QUE	136.40	58	ePKP	01	51.00	0.9
MDJ	142.13	336	ePKP	01	55.50	-4.1X
WMO	142.35	26	PKPd	01	57.00	-3.2X
NIIJ	142.53	319	PKP	01	57.10	-3.4X
CN2	144.37	340	PKP	02	01.80	-1.7
POO	145.07	73	iPKP	02	05.50	0.1
NDI	145.31	55	iPKPd	02	05.80	0.3
	1.0s		55.00nm			
TSRJ	145.49	320	PKP	02	05.70	0.1
MBL	146.41	198	iPKPd	02	08.60	1.1
	0.5s		61.00nm			
KOD	148.84	88	ePKP	02	12.00	0.1

GBA	148.89	82	PKP	02	11.20	-0.3
HYB	149.66	74	ePKPc	02	12.40	-0.3
HHC	150.15	356	ePKP	02	13.80	0.9
BJI	150.37	349	ePKP	02	13.00	0.0
GTA	150.46	15	PKPd	02	14.00	0.6
GKN	151.42	50	PKP	02	15.00	-0.2
DMN	151.98	50	PKP	02	15.80	-0.3
KKN	152.01	50	PKP	02	15.80	-0.3
PKI	152.22	50	PKP	02	15.60	-1.0
GUN	152.39	49	PKP	02	15.60	-1.2
TIY	153.20	354	ePKP	02	18.00	0.7
LZH	154.52	10	ePKP	02	18.50	-0.7
LSA	154.90	39	ePKP	02	21.20	0.9
GYA	164.40	8	PKP	02	30.60	0.3

S.D. = 0.8 on 116 of 121 obs.

% OCT 06, 1990 00h 02m 25.06 ± 0.63s
 39.521 N ± 5.6km 28.506 E ± 5.4km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 3.1 (ISK).

DST	0.13	48	iPg	02	27.20	-1.0
KCT	0.74	351	iPg	02	39.30	-0.2
BNT	0.95	332	iPg	02	43.30	0.2
			iSg	02	56.30	
EDC	0.96	329	iPg	02	42.50	-0.8
IZI	1.10	42	iPn	02	45.80	0.0
YLV	1.24	32	iPn	02	47.80	-0.3
KGT	1.31	316	iPn	02	49.80	0.5
ALT	1.33	110	iPn	02	50.20	0.5
KHL	1.44	146	iPn	02	52.70	1.5
IZM	1.48	221	ePn	02	49.70	-2.1
HRT	1.58	34	ePn	02	51.80	-1.3
GPA	1.59	60	ePn	02	53.00	-0.3
ISK	1.60	15	ePn	02	54.80	1.4
CTT	1.63	358	iPn	02	53.50	-0.3
EZN	1.71	281	ePn	02	55.90	0.9
DMK	2.37	346	ePn	03	06.00	1.5

S.D. = 1.1 on 16 of 16 obs.

* OCT 06, 1990 00h 18m 51.33 ± 1.21s
 5.860 S ± 14.3km 146.747 E ± 8.2km
 DEPTH = 108.4 ± 11.1 km
 5.1mb (5 obs.)

EAST PAPUA NEW GUINEA REGION (207)

MNDI	3.09	264	eP	19	40.00	0.6
			eS	20	27.00	
PMG	3.55	173	eP	19	45.00	-0.5
			eS	20	28.00	
RAB	5.65	73	eP	20	14.00	-0.4
CTA	14.15	182	iPc	22	12.90	4.8X
	0.7s		8.90nm			4.1mb
DIS	16.17	205	eP	22	38.00	4.4X
			e	25	31.50	
			e	26	25.80	
WB5	18.41	220	eP	22	59.50	-1.6
			e	26	25.20	
			e	26	36.00	
KNA	20.19	239	eP	23	21.70	2.0
RMO	20.60	175	iP	23	24.00	0.1
ASPA	21.60	214	eP	23	34.00	0.2
	0.3s		49.60nm			5.3mb
			iS	27	26.20	
DZM	24.95	132	iPc	24	05.60	-0.7
WARB	27.88	221	iPc	24	33.80	0.8
	0.4s		16.00nm			5.0mb
MBL	30.19	237	iPc	24	51.90	-1.7
FORR	30.41	213	iPd	24	44.80	-10.6X
	0.4s		24.00nm			
MRWA	37.19	228	eP	25	53.20	-0.5
			e	29	52.00	
HBZ	42.70	142	eP	26	40.80	1.8
PUZ	42.97	143	P	26	42.00	0.6
MNG	43.13	148	P	26	43.10	0.5
	0.4s		29.00nm			5.4mb
PGZ	43.56	147	P	26	46.30	0.3
LZH	57.94	319	P	29	00.00	25.2X
SPA	84.18	180	iPc	31	10.00	-1.6
	0.7s		11.72nm			4.9mb
SIV	144.93	129	iPKPc	38	16.00	-1.5
PPD	147.12	148	ePKP	38	23.10	1.4
			i	38	24.90	
KIC	151.65	273	PKP	38	33.00	4.1X
S.D. = 1.3 on 18 of 23 obs.						

? OCT 06, 1990 00h 22m 37.28±0.77s
6.179 S ±12.5km 147.586 E ±14.4km
DEPTH = 33.0km (normal)
4.7mb (2 obs.)
EAST PAPUA NEW GUINEA REGION (207)
ML 4.7 (PMG).

PMG	3.24	188	eP	23	26.50	-0.5
			eS	24	08.00	
MNDI	3.91	270	eP	23	45.00	8.3X
RAB	4.97	67	iPc	23	51.50	-0.2
WB5	18.72	222	eP	26	55.00	-0.6
DZM	24.12	133	iPc	28	06.00	14.7X
WARB	28.20	223	eP	28	30.00	0.8
	0.3s				4.00nm	4.6mb
MAT	43.39	349	(P)	30	38.00	-0.5
	1.5s				27.78nm	4.8mb
			(S)	37	40.00	
ZOBO	138.21	123	PKP	41	44.00	-18.6X
			e	42	03.00	
SIV	144.08	128	PKP	42	08.40	-3.9X
PPD	146.40	147	ePKP	42	17.00	0.9
			e	42	31.20	

S.D. = 0.9 on 6 of 10 obs.

OCT 06, 1990 00h 25m 06.02±0.33s
44.068 N ± 3.2km 19.403 E ± 3.4km
DEPTH = 13.9 ± 2.5 km
YUGOSLAVIA (383)
ML 3.1 (TTG). Felt in the
Srebrenico-Bosjino Bostia area.

PLE	0.74	180	iPg	25	18.90	-1.3
			iSg	25	28.00	
BEO	1.07	45	iPg	25	27.50	1.8
			iSg	25	42.50	
IVA	1.25	163	ePg	25	28.10	-0.8
			eSg	25	47.00	
NKY	1.29	193	ePg	25	28.50	-1.1
			eSg	25	45.50	
BRY	1.32	208	iPg	25	28.90	-1.3
			eSg	25	48.50	
PVY	1.53	164	ePg	25	33.00	0.0
			eSg	25	56.20	
TTG	1.64	184	ePg	25	34.70	0.2
			eSg	25	57.30	
BLV	1.73	294	Pn	25	37.80	2.0
			Sn	26	00.60	
HCV	1.75	203	ePn	25	37.00	0.9
			eSn	26	02.50	
BDV	1.83	193	ePn	25	38.50	1.2
			eSn	26	05.00	
ULC	2.11	183	ePn	25	43.00	1.7
			eSn	26	10.00	
BZS	2.21	45	iPc	25	41.50	-1.2
HVAR	2.32	248	iPn	25	44.80	0.4
			iSn	26	13.80	
SKO	2.57	144	ePn	25	47.40	-0.5
			iPg	25	53.00	
			i	25	56.70	
			iSn	26	18.00	
			iSg	26	25.00	
			i	26	29.20	
ZAG	2.99	307	eP	25	58.00	4.2X
			iSn	26	41.50	
PTJ	3.05	308	ePn	25	53.70	-1.1
			eSn	26	38.50	
OHR	3.13	160	iPn	25	56.60	0.7
			iSg	26	45.00	
			Lg	26	53.50	
VTS	3.14	117	eP	25	56.00	-0.2
			iSg	26	46.00	
VBY	3.28	297	e(Pn)	26	09.40	11.4X
			e(Sn)	26	52.80	
BUD	3.43	356	e(P)	25	59.00	-1.0
KKB	3.48	128	iPc	26	01.00	0.1
			i	26	47.00	
PGB	3.79	112	eP	26	13.00	7.7X
			eS	26	50.00	
SRO	3.82	349	eP	26	11.40	5.8X
			i	26	24.60	
			i	27	07.50	
			i	27	14.60	
PSZ	3.87	5	eP	26	05.20	-1.2
CEY	3.91	297	eP	26	08.00	1.1
			e	26	09.50	
			e	26	19.00	

LJU	3.98	301	e(Sn)	26	53.50	
			e(Pn)	26	07.70	-0.1
			e	26	20.00	
			e(Sn)	26	52.00	
CMP	4.20	71	ePd	26	52.00	41.0X
TRI	4.33	294	P	26	14.50	1.6
DUI	4.36	238	P	26	14.00	0.6
VOY	4.37	299	ePnc	26	12.70	-0.8
			eSn	27	01.30	
PVL	4.39	99	eP	26	13.00	-0.7
			eS	26	53.00	
ZST	4.43	340	eP	26	10.80	-3.4X
			e	26	20.20	
			e	27	19.20	
RZN	4.57	120	eP	26	18.00	1.5
SGO	4.64	222	P	26	16.00	-1.2
VKA	4.71	334	ePn	26	18.00	-0.3
			e	26	25.00	
			i(Sn)	27	07.90	
			e	27	43.00	
SDI	4.74	242	P	26	19.00	0.3
MLR	4.87	71	eP	26	21.50	0.8
ASS	5.00	261	P	26	24.50	2.1
KDZ	5.04	117	eP	26	32.00	9.1X
			eS	27	37.00	
SPC	5.16	6	eP	26	26.20	1.5
MNS	5.19	253	P	26	24.50	-0.6
FVI	5.31	301	P	26	26.50	-0.2
			eSn	27	25.50	
CRE	5.41	268	P	26	28.50	0.2
VRI	5.50	68	ePc	27	03.00	33.5X
CTI	5.84	293	P	26	33.00	-1.3
WATA	6.38	304	iPnd	26	41.60	-0.4
			ic	26	41.90	
KHC	6.46	324	ePn	26	42.00	-1.0
			Pg	26	50.00	
			eSg	27	57.20	
SOTA	6.55	302	iPnd	26	44.70	0.3
	0.4s				7.70nm	5.0mb X
			i	26	47.90	
			i	26	52.10	
			i	28	01.60	
			i	28	36.60	
PRU	6.79	332	eP	26	56.50	8.9X
			eSg	28	15.00	

S.D. = 1.1 on 40 of 49 obs.

OCT 06, 1990 00h 34m 14.77±2.12s
39.124 N ± 7.9km 31.387 E ±21.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.5 (ISK).

ALT	1.00	266	iPg	34	32.40	-1.3
			eSg	34	45.90	
GPA	1.43	325	ePn	34	41.30	0.5
KHL	1.66	242	ePn	34	44.20	0.0
BCK	1.78	201	ePn	34	45.70	-0.1
IZI	1.91	310	iPn	34	48.00	0.3
YLV	2.12	314	iPn	34	50.30	-0.4
HRT	2.15	323	iPn	34	50.60	-0.6
DST	2.19	284	ePn	34	54.20	2.4
ISK	2.64	318	ePn	34	58.00	-0.1
CTT	3.04	313	ePn	35	03.00	-0.7

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

? OCT 06, 1990 00h 36m 01.00±1.86s
18.010 S ±42.4km 178.623 W ±30.4km
DEPTH = 579.4 ± 14.3 km
FIJI ISLANDS REGION (181)

VUN	2.77	270	eP	37	16.80	-0.8
BKM	12.51	270	iPd	38	47.00	2.1
DZM	14.60	251	iPc	39	05.70	0.1
CTA	33.23	261	iPd	41	52.20	-0.5
	1.2s				46.88nm	5.0mb
TOO	36.95	231	iPc	42	25.00	1.8
	0.9s				53.00nm	5.2mb
WB5	44.39	260	eP	43	21.90	-0.9
ASPA	44.57	254	iPd	43	23.80	-0.3
	0.6s				113.20nm	5.6mb
FORR	49.75	245	iPc	44	02.30	-0.7
	0.4s				39.00nm	5.3mb
MBL	57.76	256	iPd	44	59.00	-0.8
NANU	61.50	254	eP	45	24.00	-0.5
	0.3s				5.00nm	4.4mb

PNT 84.93 34 eP 47 37.00 0.6
S.D. = 1.3 on 11 of 11 obs.

OCT 06, 1990 00h 54m 47.97±0.46s
45.943 N ± 3.8km 3.030 E ± 4.1km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.9 (LDG). MD 1.3 (STR).

PYM	0.19	185	Pg	54	52.50	0.2
			Sg	54	55.60	
PLDF	0.41	86	Pg	54	56.50	0.1
			Sg	55	02.50	
MAF	0.43	311	Pg	54	57.10	0.4
			Sg	55	03.10	
BGF	0.63	348	Pg	55	00.70	0.1
			Sg	55	09.60	
TCF	0.67	302	Pg	55	01.20	-0.1
			Sg	55	10.30	
LBL	0.73	168	Pg	55	02.10	-0.1
SMF	0.90	38	Pg	55	05.30	0.1
			Sg	55	17.20	
LSF	1.09	287	Pg	55	08.00	-0.4
			Sg	55	22.60	
SSF	1.17	16	Pg	55	09.80	0.0
			Sg	55	25.20	
LBF	1.23	32	Pg	55	10.60	-0.3
			Sg	55	27.40	

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

OCT 06, 1990 01h 49m 38.40±0.47s
7.005 S ± 7.6km 74.498 W ±10.4km
DEPTH = 156.8km (5 depth phases)
4.4mb (13 obs.)
PERU-BRAZIL BORDER REGION (112)

TUNG	7.46	328	P	51	24.20	-1.9
VC1	8.11	331	eP	51	33.00	-1.9
CAYA	8.57	336	P	51	40.30	-0.7
QUR	8.58	332	eP	51	40.80	-0.3
YANA	8.65	332	eP	51	42.00	-0.1
COTA	8.95	334	eP	51	46.00	0.0
ARE	9.09	161	eP	51	49.00	1.3
ZOBO	10.47	144	P	52	05.20	-0.9
LPB	10.69	145	P	52	09.00	0.1
CNCB	10.98	145	P	52	12.50	-0.3
SIV	15.44	123	iPc	53	09.00	-0.3
TOV	18.09	15	eP	53	43.70	2.6
GUAC	19.27	22	eP	53	55.40	1.8
OLLA	19.29	24	eP	53	57.30	3.5X
FISA	19.63	15	eP	53	57.10	-0.1
LLAV						

06d 02h

KIC 70.98 81 Pc 00 40.20 -1.1
0.6s 20.00nm 5.1mb
YKA 76.56 342 eP 01 24.10 11.5X
0.6s 1.90nm
TOL 80.27 47 eP 01 36.00 2.7
SPA 82.25 180 iPd 01 45.00 1.8
1.0s 12.50nm 4.6mb
FBA 90.03 336 e(P) 02 22.90 1.9
0.6s 0.90nm 4.0mb
pP 03 02.00 154km
QUE 137.60 53 ePdiff05 59.20 4.5X
WB5 140.45 226 ePKP 08 45.10 -6.4X
GBA 151.84 76 PKP 09 25.00 14.8X
GKN 151.85 42 PKP 09 17.40 7.3X
S.D. = 1.3 on 35 of 43 obs.

? OCT 06, 1990 01h 57m 55.66±10.47s
0.602 S ±13.6km 79.819 W ±88.2km
DEPTH = 33.0km (normal)
ECUADOR (107)

YANA 1.34 69 eP 58 18.30 -0.3
S 58 34.20
QTO 1.35 73 eP 58 19.00 0.3
S 58 35.20
QUR 1.36 72 eP 58 18.50 -0.4
S 58 35.50
VC1 1.42 92 P 58 20.00 0.2
TUNG 1.59 121 eP 58 22.20 0.0
COTA 1.75 58 P 58 24.80 0.2
CAYA 1.96 70 eP 58 27.80 0.1
S.D. = 0.3 on 7 of 7 obs.

* OCT 06, 1990 02h 09m 29.07±0.52s
15.757 S ±13.2km 69.456 W ±11.0km
DEPTH = 288.2 ± 7.1 km
3.8mb (3 obs.)
PERU-BOLIVIA BORDER REGION (118)

ZOBO 1.38 112 iPc 10 10.90 -0.4
S 10 44.00
LPB 1.52 121 iPc 10 12.70 0.7
1.0s 1220.00nm
i 10 40.00
CNCB 1.76 127 iPc 10 14.20 0.3
ARE 2.08 250 iPd 10 15.50 -0.6
IS 10 51.00
ANT 7.96 186 iP 11 23.00 0.3
PPD 18.26 113 eP 13 23.50 -0.6
e 13 25.70
ANMO 61.45 326 eP 19 17.90 0.0
0.9s 0.84nm 3.3mb
pP 20 11.90 237kmX
BW06 68.92 329 eP 20 04.80 -0.4
TNP 69.82 322 iP 20 11.80 1.0
0.9s 2.34nm 3.9mb
pP 21 13.80 268kmX
YKA 85.62 341 eP 21 35.80 -0.2
0.7s 1.70nm 4.0mb
GBA 147.92 89 PKP 28 43.00 3.9X
S.D. = 0.7 on 10 of 11 obs.

? OCT 06, 1990 02h 19m 22.99±3.67s
37.809 N ±13.1km 23.140 E ±22.8km
DEPTH = 111.5 ± 40.5 km
SOUTHERN GREECE (368)

ATH 0.48 70 eP 19 40.00 -0.1
VLI 1.10 189 eP 19 45.50 -0.2
ITM 1.15 237 eP 19 46.80 0.6
EVR 1.52 317 eP 19 51.00 0.4
VLS 2.05 281 eP 19 56.20 -1.0
CZI 5.67 287 P 20 46.50 0.3
S.D. = 0.9 on 6 of 6 obs.

OCT 06, 1990 02h 41m 15.43±1.52s
41.589 S ±7.2km 175.344 E ±9.2km
DEPTH = 39.1 ± 11.1 km
5.7mb (16 obs.) 5.1msz (5 obs.)
NORTH ISLAND, NEW ZEALAND (159)
ML 5.1 (WEL). Felt at
Wellington, Tawa and Roumati.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 28C
Centroid Location:
Origin Time 02:41:22.8 0.8

Lot 41.56S 0.08 Lon 175.35E 0.09
Dep 20.0 4.3 Half-duration 2.0
Moment Tensor: Scale 10¹⁷ Nm
Mrr= 0.93 0.08 Mtt=-0.24 0.10
Mff=-0.69 0.09 Mrt=-0.09 0.18
Mrf= 1.06 0.30 Mtf=-0.99 0.09
Principal Axes:
T Vol= 1.62 Plg=54 Azm=238
N 0.11 30 22
P -1.73 18 123
Best Double Couple: Mo=1.7*10¹⁷
NP1: Strike=250 Dip=38 Slip= 145
NP2: 9 69 57

WEL 0.53 305 iPc+ 41 27.00 0.5
S 41 36.50
KAI 3.08 251 P 42 01.60 -1.1
DZM 20.85 336 iPc 45 55.90 -0.6
CNB 21.25 279 eP 46 01.00 0.7
CAN 21.51 278 eP 46 04.20 1.2
COO 21.84 293 iPd 46 08.10 1.8
1.2s 268.00nm 5.5mb
TOD 23.30 270 eP 46 22.00 1.4
1.0s 118.00nm 5.3mb
PVC 24.52 344 iPc 46 33.20 0.7
BKM 24.61 344 iP 46 34.30 1.0
BFD 25.64 269 eP 46 46.00 3.0X
1.2s 167.00nm 5.5mb
CMS 25.66 284 eP 46 43.80 0.6
RMO 26.55 296 eP 46 50.60 -0.9
CTA 32.66 302 iPc 47 46.00 0.0
1.3s 200.96nm 5.8mb
HNR 34.79 333 eP 48 04.00 -0.4
SVO 35.10 333 eP 48 06.00 -1.0
SBA 36.54 183 eP 48 22.50 3.9X
ASPA 38.78 284 iPc 48 36.80 -1.3
1.7s 104.30nm 5.4mb
Z 18s 2.19um 5.0msz
eS 54 25.20
LR 04 23.00
FORR 39.16 270 iPd 48 41.30 0.2
0.4s 13.00nm 5.1mb
PMG 40.55 314 eP 48 53.50 0.8
1.3s 200.00nm 5.7mb
WB5 40.84 289 iPc 48 54.20 -0.8
RAB 42.63 325 iPc 49 10.00 0.3
0.5s 563.38nm 6.6mb
NWA0 46.29 261 eP 49 39.00 0.1
Z 20s 2.10um 5.1msz
N 20s 0.50um
E 20s 1.60um
KLB 46.54 263 eP 49 40.00 -0.9
MUN 47.50 262 eP 49 47.00 -1.6
BAL 47.81 264 eP 49 50.00 -1.0
MTN 47.90 294 iPd 49 51.10 -0.7
0.5s 79.00nm 6.0mb
SPA 48.60 180 iPd 49 58.30 1.4
1.3s 54.17nm 5.4mb
Z 19s 1.77um 5.1msz
MRWA 49.05 265 eP 49 59.50 -1.1
NANU 53.07 272 eP 50 30.00 -1.1
MAW 59.94 204 iP 51 19.90 0.4
GUA 61.63 326 eP 51 31.00 -0.5
0.8s 119.40nm 6.1mb
GUMO 61.69 326 eP 51 31.00 -0.9
0.8s 117.13nm 6.1mb
Z 19s 0.71um 4.8msz
PJC 61.69 326 eP 51 30.80 -1.1
TRT 64.60 283 ePc 51 51.50 0.3
KGM 71.72 296 ePd 52 35.00 -0.7
KGM 77.98 284 eP 53 11.00 -0.4
IPM 81.39 284 ePc 53 30.20 0.4
0.8s 49.00nm 5.6mb
SNG 83.45 286 eP 53 55.60 15.2X
MAT 84.86 331 eP 53 46.00 -1.0
1.9s 100.00nm 5.7mb
eS 04 20.00
WHN 91.18 311 eP 54 18.50 1.2
BDT 91.46 292 eP 54 15.50 -3.4X
CHG 92.57 293 ePd 54 26.00 1.9
1.5s 119.44nm 6.1mb
CHTO 92.57 293 iPd 54 26.10 2.1
KMI 94.35 300 Pd 54 34.50 2.1
2.0s 70.00nm 5.7mb
sP 54 46.00
ZOBO 97.92 120 eP 54 49.00 -0.4

Z 16s 0.53um 5.1msz
SKS 05 28.00
LR 27 30.00
WMO 115.72 307 PKP 59 54.80 -0.1
INK 116.03 19 ePKP 59 54.80 -0.6
QUE 122.40 283 ePKP 00 09.20 1.1
MBC 124.54 15 ePKP 00 10.50 -0.2
1.5s 32.00nm
MAIO 130.84 286 ePKP 00 24.00 -0.1
i 03 48.00
TAB 141.15 282 ePKP 00 41.00 -2.4X
DAG 144.20 6 iPKPd 00 45.50 -1.8
0.6s 16.67nm
LIC 144.78 179 PKP 00 49.04 -1.0
Z 20s 0.50um 5.3msz
KIC 144.92 180 PKP 00 49.72 -0.6
TIC 145.20 179 PKP 00 50.24 -0.6
MBH 146.07 263 ePKP 00 52.00 0.2
DSI 146.59 266 ePKP 00 53.00 0.4
ATZ 147.26 268 ePKP 00 57.00 3.3X
KEV 147.37 340 iPKP 00 51.40 -1.3
LKO 148.07 178 PKP 00 56.28 0.8
1.3s 38.00nm
HLW 148.73 260 ePKP 01 00.50 4.4X
SOD 149.07 337 iPKP 01 00.30 4.8X
KVT 149.63 283 iPKP 01 02.60 5.4X
KAS 151.37 283 iPKPc 01 06.80 7.0X
SUF 152.10 330 iPKP 01 06.70 6.6X
0.5s 15.30nm
BCK 152.62 273 ePKP 01 08.70 6.9X
NUR 153.94 327 iPKP 01 11.20 8.5X
0.6s 22.20nm
HRT 154.26 280 ePKP 01 09.00 5.1X
MLR 157.55 290 ePKP 01 09.00 0.8
APO 157.87 335 ePKP 01 18.50 10.6X
1.1s 15.40nm
RZN 158.09 280 ePKP 01 09.00 0.0
i 01 43.00
KKB 159.32 280 ePKPd 01 08.00 -2.1X
OHR 160.90 277 ePKP 01 06.00 -5.8X
i 01 51.00
KRA 160.95 305 ePKP 01 13.00 1.5
e 01 55.00
SPC 160.99 302 ePKP 01 09.30 -2.5X
e 01 55.50
ZST 163.26 301 e(PKP)01 11.40 -2.5X
e 02 06.40
TOL 178.23 195 ePKP 01 26.00 4.2X
ePKP 03 01.00
ePP 07 09.00
eSKSP 17 35.00
ePPS 21 25.00
eSS 27 55.00
eSSP 29 04.00
S.D. = 1.0 on 57 of 77 obs.

* OCT 06, 1990 02h 47m 10.68±1.34s
38.259 N ±9.7km 22.029 E ±18.8km
DEPTH = 5.0km (geophysicist)

GREECE (364)
MD 3.3 (ATH).
EVR 0.68 345 ePg 47 21.80 -2.5
AGG 0.80 17 ePc 47 26.22 -0.4
eS 47 38.74
ITM 1.08 184 ePb 47 34.50 3.0X
ATH 1.36 102 ePn 47 41.00 4.7X
VLI 1.70 155 ePg 47 47.00 5.9X
IGT 1.84 314 ePd 47 45.26 2.1X
eS 48 11.66
LIT 1.87 11 iPc 47 43.50 -0.2
eS 48 11.50
KZN 2.05 354 ePn 47 47.00 0.7
KEK 2.26 311 ePb 47 52.00 2.7X
THE 2.48 17 iPc 47 52.50 0.2
FNA 2.57 349 ePc 47 54.30 0.6
eS 48 30.26
KNT 2.98 13 iPc 48 00.00 0.6
OHR 3.00 342 ePn 48 01.20 1.4
SRS 3.10 22 iPc 48 01.40 0.3
iS 48 39.50
VAM 3.34 148 ePn 48 04.00 -0.6
CZI 4.71 284 P 48 19.60 -4.4X
S.D. = 1.2 on 10 of 16 obs.

OCT 06, 1990 04h 28m 33.41±0.76s
37.780 N ±7.8km 14.076 E ±5.8km

DEPTH = 10.0km (geophysicist)
SICILY (398)

GIB	0.21	350	Pd	28	37.80	-0.3
			eSg	28	40.90	
MCT	0.38	247	P	28	41.40	0.1
			eSg	28	48.90	
MNO	0.51	73	P	28	43.50	-0.4
			eSg	28	52.40	
MEU	0.96	135	P	28	51.30	-0.4
			eSg	29	06.70	
ATN	1.16	70	Pc	28	55.10	0.0
			eSn	29	13.20	
SOI	1.59	79	P	29	02.60	0.9

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

& OCT 06, 1990 04h 45m 58.36s
58.750 N 154.209 W
DEPTH = 0.5km
ALASKA PENINSULA
<AGS-P> (12)

CDD	0.35	58	iP	46	05.54	0.3
			eS	46	11.38	
MCNL	0.44	351	iP	46	07.31	0.1
			eS	46	14.55	
AUI	0.71	34	eP	46	12.83	0.2
			eS	46	23.70	
AUH	0.73	32	eP	46	13.36	0.4
AUE	0.75	35	eP	46	13.65	0.4
OPT	1.04	29	eP	46	18.25	-0.6
			eS	46	33.35	
PDB	1.04	0	eP	46	17.54	-1.4
			eS	46	31.72	
HOM	1.60	54	eP	46	27.11	-0.9
CNPM	1.72	62	eP	46	28.64	-1.0
RSO	1.87	23	eP	46	31.81	-0.2
RDT	2.05	26	eP	46	33.88	-0.6

11 obs. associated

? OCT 06, 1990 05h 18m 30.06±1.00s
42.857 N ± 7.6km 7.450 W ± 9.2km
DEPTH = 10.0km (geophysicist)
SPAIN (377)

mbLg 2.7 (MDD).

ERUA	0.52	154	iP	18	40.70	0.2
			eS	18	47.00	
EMON	0.58	9	iP	18	41.80	-0.1
			eS	18	49.80	
STS	0.81	272	eP	18	46.20	0.4
			eS	18	56.30	
EZAM	1.16	233	eP	18	51.30	-0.5
			eS	19	06.00	

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

OCT 06, 1990 05h 52m 25.14±0.41s
40.728 N ± 4.4km 27.432 E ± 3.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

MD 3.3 (ISK).

KGT	0.29	200	iPg	52	31.20	-0.1
EDC	0.50	139	iPg	52	35.50	0.2
			iSg	52	41.50	
BNT	0.53	135	iPg	52	36.20	0.4
			eSg	52	43.70	
KCT	0.85	124	iPg	52	41.70	0.1
CTT	0.86	61	iPg	52	41.50	-0.3
DMK	1.12	13	iPn	52	46.30	0.2
EZN	1.24	224	iPn	52	47.70	-0.4
ISK	1.28	74	iPn	52	48.40	-0.5
DST	1.45	140	iPn	52	52.00	0.6
YLV	1.49	96	iPn	52	51.20	-0.8
GBZT	1.53	87	ePn	52	53.40	0.9
IZI	1.60	103	ePn	52	53.70	0.0
HRT	1.70	86	iPn	52	54.20	-0.8
KDZ	1.78	302	iP	52	55.00	-1.1
			iS	53	21.00	
JMB	1.85	340	ePg	53	03.00	5.9X
			iS	53	25.00	
DIM	1.95	313	iP	53	01.00	2.5
			Sg	53	25.00	
RZN	2.26	296	iPd	53	03.00	-0.3
			iS	53	35.00	
IZM	2.33	183	ePn	53	10.00	5.8X
PLD	2.47	305	ePg	53	21.00	14.9X

iSg 53 41.00
eP 53 12.00 -0.6
eS 53 55.00
iS 53 18.00 5.3X
eS 53 43.00
iPc 53 21.00 6.7X
iS 54 03.00
eS 55 40.00
iPc 53 28.00 7.7X
iS 54 14.00
eP 53 35.00 11.7X
iS 54 19.00

S.D. = 0.9 on 17 of 24 obs.

OCT 06, 1990 05h 54m 04.18±0.76s
40.735 N ± 5.2km 27.378 E ± 6.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

MD 2.9 (ISK).

KGT	0.29	191	iPg	54	09.70	-0.5
EDC	0.54	136	iPg	54	14.50	-0.5
			iSg	54	22.50	
BNT	0.56	132	iPg	54	15.20	-0.4
			iSg	54	23.20	
KCT	0.89	123	iPg	54	21.20	-0.1
CTT	0.90	62	ePg	54	21.70	0.3
			eSg	54	34.20	
DMK	1.12	15	ePn	54	25.00	-0.2
EZN	1.21	222	ePn	54	27.00	0.2
ISK	1.32	75	ePn	54	28.00	-0.5
DST	1.48	139	iPn	54	32.00	1.1
YLV	1.53	96	iPn	54	31.20	-0.4
IZI	1.65	103	ePn	54	34.70	1.4
KDZ	1.74	302	iP	54	38.00	3.4X
			iS	55	00.00	
HRT	1.74	86	ePn	54	34.20	-0.5
DIM	1.91	314	iP	54	40.00	2.9X
			Sg	55	05.00	
RZN	2.22	296	eP	54	35.00	-6.8X
			iS	55	15.00	
KKB	3.43	291	eP	55	12.00	13.3X
			eS	55	54.00	

S.D. = 0.7 on 12 of 16 obs.

? OCT 06, 1990 07h 20m 11.04±0.92s
5.224 N ± 11.9km 126.399 E ± 24.2km
DEPTH = 33.0km (normal)
4.7mb (4 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

MNI	4.07	203	ePc	21	12.00	-0.5
WB5	26.15	163	eP	25	43.10	-1.1
ASPA	29.63	166	eP	26	17.60	1.7
	0.7s			6.60nm		4.5mb
GBA	48.94	283	Pc	28	57.10	0.7
	1.1s			6.00nm		4.5mb
SUF	90.08	333	eP	33	09.00	0.3
SLL	96.59	333	eP	33	38.10	-0.6
	0.5s			2.50nm		5.0mb
NB2	97.31	334	P	33	41.60	-0.4
	0.7s			2.10nm		4.8mb

S.D. = 1.2 on 7 of 7 obs.

OCT 06, 1990 09h 08m 09.18±0.31s
2.711 S ± 7.2km 67.908 E ± 4.6km
DEPTH = 10.0km (geophysicist)
5.6mb (62 obs.) 5.2Msz (19 obs.)
CARLSBERG RIDGE (421)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 34C
Centroid Location:
Origin Time 09:08: 8.1 0.7
Lat 3.55S 0.06 Lon 67.86E 0.04
Dep 15.0 FIX Half-duration 2.2
Moment Tensor: Scler 10**17 Nm
Mrr=-2.32 0.09 Mtt= 1.45 0.09
Mff= 0.87 0.13 Mrt= 2.18 0.36
Mrf=-2.61 0.30 Mtf=-1.43 0.09
Principal Axes:
T Val= 4.32 Plg=27 Azm= 43
N -0.23 6 136
P -4.09 62 238
Best Double Couple: Mo=4.2*10**17
NP1: Strike=118 Dip=19 Slip=-109

NP2: 318 72 -84

KOD	16.00	36	eP	11	56.40	0.1
GBA	18.76	30	P	12	30.90	0.3
			S	13	00.00	
POO	21.91	15	iPc	13	00.30	1.7
	1.3s			165.38nm		5.3mb
HYB	22.59	27	ePc	13	12.00	0.7
	1.2s			181.80nm		5.4mb
NPA	30.81	245	eP	14	32.40	4.7X
NDI	32.47	15	eP	14	43.00	1.0
	0.7s			23.97nm		5.2mb
QUE	32.73	358	eP	14	46.30	1.8
			eS	20	05.00	
			e	22	13.00	
IPM	33.87	78	ePd	14	55.40	0.9
	1.0s			69.90nm		5.5mb
DMN	34.40	28	P	15	00.00	0.9
PKI	34.51	28	P	15	01.20	1.1
GKN	34.52	27	P	15	00.20	0.2
KKN	34.63	28	P	15	01.00	-0.1
GUN	35.01	28	P	15	04.60	0.1
NNT	35.07	64	eP	15	03.00	-1.8
BDT	36.53	56	eP	15	14.50	-2.5
CHG	37.28	54	ePd	15	24.10	0.7
	1.2s			128.91nm		5.6mb
			eS	21	14.00	
CHTO	37.28	54	eP	15	24.00	0.6
	1.2s			85.76nm		5.4mb
LOE	38.89	58	eP	15	38.00	1.1
LWI	39.07	270	e(P)c	15	40.30	1.5
LSA	39.16	33	eP	15	40.20	0.7
	N 15s			2.70um		
	E 15s			2.10um		
			PP	17	08.00	
			S	21	39.00	
MAIO	39.60	349	iPc	15	44.00	1.4
	1.3s			44.93nm		5.0mb
			eS	21	54.00	
CIR	39.77	240	iPc	15	47.40	3.2X
KRI	40.15	247	iPd	15	53.20	5.6X
BUL	42.06	243	iPd	16	07.00	3.8X
	1.0s			95.00nm		5.5mb
KSH	42.61	9	eP	16	10.00	2.6X
	N 16s			5.10um		
	E 20s			5.60um		
KMI	43.66	49	Pc	16	18.00	1.7
	2.0s			900.00nm		6.2mb
Z	34s			4.60um		5.2MszX
SLR	44.42	235	iPc	16	24.50	2.1
	1.6s			366.67nm		6.0mb
Z	20s			28.37um		6.2Msz
MBH	45.17	318	eP	16	31.00	2.9X
TAB	45.23	336	eP	16	30.00	1.4
DSI	46.02	320	eP	16	38.00	3.2X
QIZ	46.55	61	eP	16	40.00	0.8
	N 14s			1.40um		
	E 18s			3.70um		
			S	23	18.50	
			sS	23	31.00	
GLH	46.61	322	eP	16	42.00	2.6
GYA	47.35	50	P	16	46.40	0.8
	Z 38s			2.00um		4.8MszX
			S	23	40.00	
CD2	47.79	43	eP	16	48.20	-0.7
	Z 20s			6.02um		5.6Msz
			sP	17	01.00	
			S	23	44.00	
KKM	49.02	80	eP	17	01.00	2.3
WMO	49.61	19	P	17	03.00	0.2
	5.0s			600.00nm		5.8mb X
	Z 21s			6.20um		5.6Msz
	N 19s			10.90um		
			PcP	18	27.00	
			S	24	09.00	

06d 09h

MRWA	52.69	125	eS	24	35.00		VVI	68.84	322	P	19	17.00	1.0	TNS	73.14	325	ePd	19	41.50	-0.4
XAN	53.15	43	P	17	27.50	1.1	FVI	68.91	323	P	19	17.50	1.2	LIC	73.36	277	P	19	44.20	0.4
MBL	53.71	114	iPc	17	34.60	0.7	KSP	69.09	328	eP	19	16.50	-0.9		1.4s	22.00nm			5.0mb	
	1.0s	37.00nm			5.3mb			1.5s	59.00nm			5.5mb		Z	20s	0.55um			4.8Msz	
KAS	53.75	328	eP	17	33.00	-1.0	BDI	69.12	320	P	19	16.20	-1.6	TIC	73.39	278	P	19	45.02	1.1
ALT	54.19	324	eP	17	36.90	-0.4	CN2	69.16	41	Pc	19	19.20	1.2	HAU	73.46	322	eP	19	41.60	-2.2
IZM	55.50	322	eP	17	48.00	1.2		1.2s	100.00nm			5.9mb		Z	21s	0.38um			5.0mb	
HRT	55.61	325	eP	17	48.00	0.4		Z	18s	3.00um		5.6Msz		ETER	73.68	316	e(P)	19	47.80	2.7
EZN	56.95	322	eP	17	56.00	-1.1								TSRJ	73.92	52	eP	19	46.80	0.2
TIY	57.58	41	eP	17	59.50	-2.2								LKO	74.21	281	P	19	46.34	-2.4
	Z	18s	1.20um		5.0Msz		CTI	69.35	322	Pc	19	20.10	0.9		1.6s	99.50nm			5.6mb	
	N	19s	3.20um				BHG	69.39	324	eP	19	16.80	-2.6	LBL	74.40	318	P	19	49.46	0.3
			S	25	50.00		PGF	69.54	318	eP	19	18.20	-2.3	PLDF	74.42	319	P	19	48.89	-0.5
BTO	57.74	37	eP	18	00.50	-2.3		1.5s	83.55nm			5.7mb		SMF	74.52	320	eP	19	47.90	-2.0
	N	17s	1.60um				PRU	69.58	326	eP	19	20.50	0.1		1.5s	67.90nm			5.5mb	
	E	17s	1.20um					1.8s	46.90nm			5.3mb		LBF	74.56	320	eP	19	48.50	-1.7
			eS	26	05.00		Z	20s	0.60um			4.8Msz			1.5s	78.35nm			5.5mb	
HHC	58.83	38	eP	18	11.00	0.6								LOR	74.73	321	eP	19	49.40	-1.7
	Z	18s	2.90um		5.4Msz		KHC	69.69	325	iP	19	21.40	0.3		1.5s	88.80nm			5.6mb	
			eS	26	19.00			1.5s	26.50nm			5.2mb		Z	20s	0.40um			4.7Msz	
CFR	59.34	328	eP	18	11.00	-2.8								PYM	74.74	319	P	19	51.36	0.1
NJ2	59.36	50	eP	18	12.50	-1.6	WET	70.09	325	eP	19	25.00	1.4	AGO	74.77	319	P	19	50.76	-0.6
	Z	16s	1.10um		5.1MszX			2.0s	100.00nm			5.6mb		ENN	74.83	324	eP	19	52.00	0.4
VRI	60.55	328	ePd	18	21.50	-0.6	OCA	70.11	322	iPc	19	24.80	0.8		1.5s	164.00nm			5.8mb	
MLR	60.72	327	eP	18	23.00	-0.4		1.7s	96.00nm			5.7mb		WTS	74.84	326	eP	19	59.00	7.5X
SSE	60.78	52	Pc	18	24.50	0.7	SQTA	70.16	323	iPc	19	22.70	-1.5		1.3s	66.00nm			5.5mb	
	1.5s	120.00nm			5.8mb			1.4s	111.00nm			5.8mb		SSF	74.80	320	eP	19	50.40	-1.6
	Z	20s	2.80um		5.4Msz										1.5s	78.35nm			5.5mb	
WARB	60.89	118	eP	18	23.00	-1.8								AVF	74.89	320	eP	19	50.00	-2.0
	0.8s	10.00nm			5.0mb									EROQ	74.96	313	e(P)	19	55.70	3.2X
CMP	61.07	327	ePd	18	26.00	0.3	BOB	70.17	320	P	19	24.00	-0.2	CAF	75.09	318	eP	19	52.40	-0.9
BJI	61.29	41	eP	18	26.50	-0.7	BRG	70.37	327	eP	19	23.70	-1.5		1.5s	60.05nm			5.4mb	
	1.5s	170.00nm			6.0mb									BGF	75.13	320	eP	19	52.30	-1.1
	Z	18s	2.30um		5.4Msz									MAF	75.19	319	eP	19	52.60	-1.2
	N	15s	1.51um				MDI	70.44	321	P	19	25.50	-0.2		1.3s	32.50nm			5.2mb	
			eS	18	40.00		FUR	70.55	324	eP	19	25.30	-1.1	GRC	75.24	320	P	19	52.97	-1.1
			eS	26	48.00		PCP	70.66	319	P	19	28.92	1.7	DOU	75.35	324	P	19	57.30	2.8
SOI	62.73	316	Pc	18	39.10	2.2	FIN	70.74	319	P	19	29.43	1.7	HFS	75.42	335	eP	19	53.60	-1.2
MEU	63.09	314	P	18	41.30	1.9	CKI	70.79	319	P	19	29.10	1.2		1.5s	167.80nm			5.9mb	
CZI	63.22	317	P	18	39.40	-0.7	IMI	70.83	318	P	19	28.82	0.5	Z	20s	0.76um			5.0Msz	
TDS	63.29	317	P	18	43.00	2.4	ROB	71.00	319	P	19	29.33	0.0			LR	49	08.00		
MTN	63.30	103	eP	18	40.50	-0.5	VAI	71.07	321	P	19	30.40	0.9	TCF	75.45	319	eP	19	54.10	-1.2
CSI	63.38	317	P	18	42.40	1.2	CLL	71.10	327	eP	19	29.00	-0.6	RJF	75.58	318	eP	19	55.40	-0.6
BEO	63.40	324	eP	18	41.50	0.3		1.8s	155.00nm			5.8mb			1.4s	95.85nm			5.7mb	
ORI	63.41	318	P	18	35.50	-5.9X							Z	20s	0.47um			4.8Msz		
MMN	63.64	317	P	18	42.40	-0.4	SBF	71.12	318	eP	19	28.00	-2.0	LPO	75.60	317	eP	19	55.00	-0.3
MGR	64.05	318	P	18	42.00	-3.6X		1.5s	104.45nm			5.7mb			1.5s	109.70nm			5.7mb	
MCT	64.25	314	Pc	18	52.10	5.0X	ENR	71.27	319	P	19	32.92	2.0	MTMJ	75.61	51	eP	19	58.40	1.9
SGO	64.42	318	P	18	49.00	1.1	GRF	71.30	325	eP	19	29.80	-1.1	ECHE	75.62	312	e(P)	20	01.00	4.6X
MAW	64.87	182	eP	18	52.00	1.7		Z	22s	0.40um		4.6Msz		EPF	75.67	316	eP	19	56.00	-0.6
SDI	65.95	318	P	18	58.00	0.1								SOD	75.69	345	iP	19	58.70	2.5
SPC	66.05	328	eP	18	56.70	-1.8	STV	71.34	319	P	19	33.12	1.7	LSF	75.88	319	eP	19	56.60	-1.1
			e	21	28.60										1.5s	83.55nm			5.6mb	
AZI	66.33	319	P	19	00.00	-0.2	NUR	71.39	339	eP	19	34.00	2.8	MAT	75.92	51	eP	19	58.00	-0.1
PTJ	66.65	323	e(P)	19	01.50	-0.8	GRX	71.47	320	P	19	31.28	-0.9		2.5s	211.11nm			5.8mb	
RDP	66.71	318	P	19	03.50	0.8	FRF	71.53	318	eP	19	30.60	-1.8	Z	20s	1.42um			5.3Msz	
KRA	66.72	329	eP	19	03.50	0.9		1.5s	73.10nm			5.6mb				eS	29	39.00		
	1.5s	91.00nm			5.7mb		LMR	71.53	318	eP	19	30.80	-1.6	CHJJ	76.42	52	eP	20	00.30	-0.6
	Z	18s	1.40um		5.2Msz			1.4s	52.30nm			5.5mb		NIIJ	76.70	51	P	20	02.50	0.0
			e	19	10.80		MOX	71.54	326	eP	19	33.50	1.2	ETOR	76.75	313	e(P)	20	04.00	1.2
RMP	66.74	318	P	19	04.40	1.5		2.2s	138.00nm			5.7mb		NB2	76.94	335	P	20	02.80	-0.6
VBY	66.87	323	e(P)	19	06.00	2.4		Z	17s	0.70um		5.0MszX			1.6s	96.70nm			5.6mb	
ASPA	66.96	114	iPd	19	02.80	-1.9	PZZ	71.59	319	P	19	31.79	-1.2	MFF	77.09	319	eP	20	03.50	-1.0
	2.4s	40.60nm			5.2mb		BHB	71.62	319	P	19	31.38	-1.6		1.5s	88.80nm			5.6mb	
	Z	28s	1.16um		4.9MszX		RSP	71.74	319	P	19	31.07	-2.8	KEV	77.36	346	eP	20	08.00	2.5
			LR	41	50.00		QIS	71.92	111	eP	19	33.50	-1.7	KAKJ	77.38	52	eP	20	05.50	-0.7
WB5	66.96	110	eP	19	02.80	-1.9	LSD	71.93	320	P	19	34.05	-1.1	MAL	77.54	308	e(P)	20	07.50	0.4
			e	25	49.00		RRL	71.96	319	P	19	35.38	0.1	TOL	77.99	312	iPc	20	14.00	4.4X
MNS	67.01	319	P	19	03.00	-1.7	BNI	72.08	319	P	19	37.00	1.1		1.2s	93.75nm			5.8mb	
SNY	67.06	42	Pc	19	04.80	0.0	LPG	72.21	320	eP	19	34.30	-2.5			eS	30	46.00		
	1.8s	100.00nm			5.7mb			1.5s	52.25nm			5.4mb		GRR	78.10	321	eP	20	08.90	-1.1
	Z	24s	1.80um		5.2MszX		MDJ	72.21	41	iPc	19	37.50	1.1	LPF	78.11	320	eP	20	09.10	-0.9
			sP	19	18.20			1.5s	100.00nm			5.7mb			1.4s	122.00nm			5.8mb	
ZST	67.20	326	eP	19	03.20	-2.5		Z	24s	1.50um		5.2MszX		CTA	78.13	110	iPc	20	11.10	0.4
			e	21	29.00										1.9s	184.21nm			5.8mb	
SOP	67.24	325	eP	19	06.10	0.2	LPL	72.23	320	eP	19	34.30	-2.5	EPRU	78.23	308	e(P)	20	13.60	2.6
ASS	67.34	319	P	19	08.50	1.8		1.3s	54.15nm			5.5mb		GUD	78.25	312	e(P)	20	12.00	0.8
ARV	67.35	320	P	19	08.50	1.7	FEL	72.39	322	eP	19	36.04	-1.6	EJIF	78.31	308	e(P)	20	14.40	3.0
CEY	67.49	322	e(P)	19	09.50	1.9	SUF	72.44	341	eP	19	37.00	-0.5	EKA	81.57	327	P	20	33.00	4.6X
LJU	6																			

SES 132.48 359 ePKP 27 25.00 -0.7
 NEW 134.41 5 PKP 27 32.00 2.6X
 LRM 137.06 0 ePKP 27 37.90 3.1X
 RSSD 138.15 351 PKP 27 37.00 0.1
 BW06 140.04 357 PKP 27 38.50 -1.9X
 LBFM 140.54 12 PKP 27 41.00 -0.3
 GOL 142.68 351 PKP 27 53.00 7.8X
 TUL 143.68 337 ePKP 27 44.70 -1.9X

1.5s 30.50nm
 Z 20s 0.85um 5.5MsZ

SIO 144.02 338 ePKP 27 47.50 0.3
 e 30 56.40

CMB 144.03 11 PKP 27 46.00 -1.2

ARN 144.45 13 PKP 27 48.00 0.0

TNP 144.49 7 PKP 27 46.00 -2.2X

UYO 144.65 334 iPKPd 27 46.80 -1.5

GCC 144.65 14 ePKP 27 41.50 -6.7X

FRI 145.17 11 ePKP 27 48.80 -0.3

LLA 145.29 13 ePKP 27 48.10 -1.3

PRS 145.46 13 ePKP 27 45.20 -4.5X

MEO 145.70 340 iPKPc 27 55.50 5.4X

PHAM 146.15 12 PKP 27 53.00 2.1X

CLC 146.67 8 ePKP 27 53.00 1.3

UPA 147.04 282 (PKP) 27 58.00 5.2X

GSC 147.28 7 ePKP 27 55.00 2.2X

ABL 147.34 11 PKP 27 55.00 1.9

ANMO 147.50 351 PKP 28 05.00 11.7X

1.8s 62.50nm

SYP 147.50 12 ePKP 27 58.00 4.8X

ALO 147.51 351 ePKP 27 54.00 0.7

SBB 147.74 9 ePKP 27 58.00 4.5X

MWC 148.16 9 ePKP 27 58.00 3.7X

RVR 148.49 8 ePKP 27 58.00 3.4X

TPC 148.55 6 ePKP 27 58.00 3.2X

PLM 149.19 8 ePKP 28 03.00 7.0X

GLA 149.71 5 ePKP 28 01.00 4.4X

BAR 149.88 8 ePKP 28 01.00 4.2X

S.D. = 1.4 on 191 of 229 obs.

? OCT 06, 1990 09h 24m 22.98 ± 6.52s

19.955 N ± 68.4km 64.497 W ± 9.3km

DEPTH = 33.0km (normal)

VIRGIN ISLANDS (91)

LPR 2.09 219 P 24 55.80 -0.6

CSB 2.28 224 P 24 59.00 -0.1

SJG 2.41 221 iP 25 00.70 -0.3

PORP 2.77 227 P 25 06.30 0.3

MGP 3.13 232 P 25 12.00 0.9

NEV 3.35 147 eP 25 16.30 2.0

BPA 3.83 139 eP 25 21.00 -0.1

BBL 5.26 146 eP 25 40.00 -1.5

SIV 35.88 174 P 31 21.40 -0.7

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

OCT 06, 1990 10h 02m 30.79 ± 0.28s

13.490 N ± 5.0km 120.383 E ± 6.6km

DEPTH = 34.1km (3 depth phases)

5.1mb (19 obs.) 4.7MsZ (8 obs.)

MINDORO, PHILIPPINE ISLANDS (250)

OIZ 11.52 300 eP 05 13.60 -2.4

N 15s 1.60um

E 18s 3.00um

NJ2 18.53 356 eP 06 52.00 5.4X

Z 16s 0.90um

NNT 20.14 270 eP 07 02.20 -2.8

e 28 50.00

KMI 20.25 307 eP 07 08.00 1.6

1.8s 80.00nm 4.8mb

Z 20s 2.40um 4.5MsZ

pP 07 17.00 34km

KGM 20.37 237 eP 07 08.50 1.1

SNG 20.42 254 eP 07 05.90 -2.0

BDT 20.95 283 eP 07 09.50 -3.8X

IPM 21.05 247 ePd 07 16.30 1.9

CHG 21.25 287 ePd 07 17.00 0.5

1.1s 15.19nm 4.3mb

CHTO 21.25 287 eP 07 17.10 0.6

1.1s 12.96nm 4.2mb

TRT 22.42 201 eP 07 30.50 2.4

XAN 22.95 335 P 07 33.40 0.1

CD2 23.13 321 iP 07 36.00 1.0

Z 19s 3.79um 4.9MsZ

TIY 25.14 345 eP 07 55.00 0.6

Z 18s 2.20um 4.7MsZ

N 15s 1.30um

BJI 26.71 353 eP 08 09.00 0.2

1.4s 70.00nm 5.1mb

Z 20s 1.19um 4.4MsZ

LZH 26.97 329 eP 08 21.00 9.6X

1.8s 22.00nm 4.5mb

Z 24s 2.05um 4.6MsZ

E 13s 1.24um

MAT 27.97 32 (P) 08 40.00 19.6X

eS 13 25.00

MTN 28.25 157 eP 08 22.10 -0.9

HHC 28.33 346 eP 08 24.60 0.9

GTA 31.56 329 eP 08 51.40 -1.0

Z 24s 2.60um 4.8MsZ

E 20s 1.70um

MBL 34.44 181 eP 09 17.00 -0.4

0.4s 6.00nm 4.9mb

GUN 35.18 300 P 09 24.60 0.4

PKI 35.48 299 P 09 26.40 -0.4

DMN 35.75 299 P 09 29.10 0.1

WB5 35.90 157 iPc 09 28.80 -1.2

eS 15 01.00

GKN 36.26 299 P 09 32.20 -0.9

ASPA 39.22 160 iPc 09 57.50 -0.3

0.7s 109.70nm 5.7mb

Z 20s 0.24um 4.0MsZ

eS 15 38.00

LR 28 46.00

WARB 39.90 171 iPd 10 03.80 0.4

0.4s 16.00nm 5.1mb

MEKA 39.90 183 eP 10 03.50 0.1

HYB 40.45 281 eP 10 22.00 13.9X

WMQ 41.19 324 P 10 16.00 2.1

Z 18s 1.40um 4.9MsZ

N 16s 2.70um

pP 10 26.50 36km

PcS 16 02.50

eS 16 31.00

ScS 20 16.50

GBA 41.71 275 P 10 18.00 -0.4

CTA 41.97 142 iPd 10 21.20 0.8

1.1s 31.65nm 5.0mb

KOD 42.09 270 eP 10 30.50 8.6X

MRWA 42.67 186 eP 10 25.50 -0.5

FORR 44.70 171 iPc 10 42.20 -0.3

0.4s 22.00nm 5.4mb

ADE 51.23 161 iPd 11 33.30 0.0

0.8s 49.25nm 5.5mb

BRS 51.37 142 iPc 11 35.80 1.3

QUE 51.85 298 eP 11 38.60 0.2

DZM 57.35 128 iPd 12 17.80 -0.6

MAIO 58.74 304 eP 12 28.00 -0.1

KEV 78.62 339 eP 14 31.00 0.6

SOD 79.10 337 iP 14 32.80 -0.3

SUF 80.06 332 iP 14 37.70 -0.6

0.5s 8.50nm 5.0mb

NUR 81.18 330 iP 14 44.00 -0.2

0.8s 20.50nm 5.2mb

INK 83.40 21 ePd 14 55.10 -0.6

MLR 83.58 315 eP 14 59.00 1.8

MBC 83.82 12 eP 14 57.00 -0.7

1.0s 6.00nm 4.7mb

UPP 84.74 330 iP 15 01.80 -0.7

KRA 86.36 321 eP 15 11.30 0.5

e 15 26.30 52kmX

HFS 86.51 331 eP 15 09.50 -1.8

1.3s 52.50nm 5.6mb

Z 18s 0.41um 4.9MsZ

LR 51 02.00

NB2 87.30 333 P 15 14.60 -0.7

0.8s 23.60nm 5.5mb

KSP 88.33 322 iPd 15 21.10 0.8

PRU 89.68 322 P 15 27.00 0.3

Z 16s 0.50um 5.0MsZ

BRG 89.72 323 iPd 15 27.00 0.1

1.1s 21.00nm 5.3mb

CLL 90.11 323 iP 15 28.80 0.1

1.7s 24.00nm 5.2mb

e 15 39.00 32km

e 15 51.00

KHC 90.57 321 P 15 31.50 0.5

GRF 91.78 322 ePc 15 37.10 0.6

Z 18s 0.40um 4.9MsZ

SOTA 92.76 320 iPd 15 40.90 -0.3

1.0s 19.60nm 5.5mb

ic 15 41.50 2kmX

i 15 46.20

WDC 100.78 44 ePd 16 16.00 -1.6

LBFM 100.85 43 Pd 16 18.70 0.5

MIN 101.52 44 ePd 16 12.20 -8.9X

ORV 101.97 44 ePd 16 08.70 -14.2X

SCH 111.69 4 Pd 17 21.00 15.2X

LKO 121.70 290 PKP 21 30.78 7.0X

KIC 122.06 286 PKP 21 24.34 -0.1

TIC 122.22 287 PKP 21 24.52 -0.2

LIC 122.37 286 PKP 21 24.84 -0.2

S.D. = 1.0 on 58 of 68 obs.

OCT 06, 1990 10h 09m 01.99 ± 0.80s

13.445 N ± 5.8km 92.050 W ± 5.1km

DEPTH = 41.3 ± 6.8 km

5.0mb (21 obs.) 4.4MsZ (2 obs.)

OFF COAST OF CHIAPAS, MEXICO (68)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 7S, 14C

Centroid Location:

Origin Time 10:09:16.3 3.5

Lat 14.55N 0.23 Lon 92.34W 0.16

Dep 15.0 FIX Half-duration 1.5

Moment Tensor; Scale 10¹⁷ Nm

Mrr=-0.42 0.14 Mtl=1.24 0.12

Mff=-0.82 0.20 Mrt=1.09 0.59

Mrf=0.36 0.34 Mtf=-0.68 0.13

Principal Axes:

T Vol=1.86 Plg=24 Azm=11

N -0.31 43 257

P -1.55 37 121

Best Double Couple: Mo=1.7*10¹⁷

NP1: Strike=150 Dip=44 Slip=-12

NP2: 249 82 -134

TPX 1.47 352 iP 09 26.00 -0.3

iS 09 46.50

SCX 3.32 350 iP 09 55.00 2.3

iS 10 33.50

OXX 5.77 309 iP 10 26.50 -1.2

(S) 11 23.00

EVV 5.90 328 (P) 10 39.00 9.7X

IIT 8.17 314 iP 11 02.00 0.7

ACX 8.26 295 (P) 10 59.90 -2.4

PPM 8.43 312 iP 11 06.00 1.0

(S) 12 45.00

III 8.65 305 iP 11 07.00 -0.8

UNM 9.00 312 (P) 11 23.00 10.3X

IIJ 9.65 311 iP 11 23.00 1.0

MRX 10.74 307 (P) 11

06d 10h

CLC 31.99 319 eP 15 26.00 -0.7
 RSSD 32.25 344 P 15 29.00 0.0
 BW06 32.91 336 P 15 34.00 -0.8
 1.0s 9.58nm 4.6mb
 TNF 33.19 322 P 15 37.50 0.2
 1.0s 12.08nm 4.7mb
 PHAM 33.85 316 P 15 43.00 0.2
 FRI 34.06 318 eP 15 44.50 0.0
 PRI 34.20 316 eP 15 46.90 1.0
 CMB 35.11 319 eP 15 54.00 0.4
 MHC 35.52 317 eP 15 58.20 1.0
 LRM 36.59 336 eP 16 07.00 0.7
 ZOBO 37.83 141 Pc 16 17.50 0.2
 1.0s 11.25nm 4.7mb
 e 18 31.00

LPB 38.05 141 P 16 27.00 8.0X
 CNCB 38.33 141 P 16 22.00 0.5
 i 18 36.00
 CBM 38.95 26 P 16 24.00 -1.7
 NEW 40.47 334 P 16 38.00 -0.3
 1.0s 10.00nm 4.5mb
 LON 41.53 329 P 16 48.00 0.9
 PNT 42.34 333 ePd 16 54.00 0.4
 0.9s 29.00nm 5.0mb

SIV 42.36 133 P 16 53.60 -0.5
 EDM 43.14 341 iPd 17 00.40 0.3
 0.8s 73.00nm 5.5mb
 PGC 43.64 330 eP 17 05.00 0.9
 RTBS 49.81 155 ePd 18 03.10 10.2X
 ZON 50.04 154 eP 18 13.00 18.2X
 RTCV 50.37 154 ePd 18 14.10 16.8X
 YKA 51.55 347 eP 18 04.80 -1.0
 0.6s 10.70nm 5.0mb

BAO 52.29 122 Pd 18 11.50 -0.7
 SOB1 55.55 111 ePd 18 35.80 -0.2
 e 18 40.00
 VAO 57.10 129 eP 18 43.70 -3.3X
 INK 60.95 344 eP 19 12.50 -0.4
 1.0s 46.00nm 5.6mb
 pP 19 25.00 44kmX

PMR 62.88 333 P 19 25.20 -0.7
 1.0s 17.50nm 5.1mb
 FBA 63.73 337 iPd 19 30.60 -0.9
 1.0s 21.70nm 5.2mb
 MBC 64.45 353 ePd 19 36.20 0.1
 1.0s 26.00nm 5.2mb
 pP 19 47.00 35kmX

SVW 65.65 331 iPc 19 43.10 -0.9
 1.1s 30.60nm 5.3mb
 TTA 66.37 333 iPd 19 47.80 -0.9
 0.9s 13.00nm 5.0mb
 IMA 66.45 337 ePd 19 48.10 -1.1
 DAG 73.19 13 iPc 20 31.80 1.8
 0.7s 17.12nm 5.1mb

EKA 78.45 36 P 21 00.00 -0.1
 0.9s 9.90nm 4.8mb
 NB2 84.66 28 P 21 33.70 1.2
 1.2s 14.50nm 5.0mb
 HFS 86.11 29 eP 21 39.20 -0.5
 1.7s 81.80nm 5.7mb

SOD 88.15 20 eP 21 54.00 4.5X
 KHC 89.89 39 eP 22 10.80 12.7X
 ZST 92.41 39 eP 22 10.70 1.0
 TIY 124.16 337 ePKP 28 00.40 2.2
 XAN 128.73 338 PKP 28 07.20 0.1
 GYA 136.36 335 PKP 28 22.00 0.1
 POO 145.32 24 iPKPd 28 37.30 -0.6
 1.0s 38.00nm

CHG 146.16 341 ePKPd 28 40.00 0.7
 1.3s 81.73nm
 LOE 146.46 336 ePKP 28 41.00 1.2
 BDT 147.61 340 ePKP 28 40.00 -1.6
 HYB 147.97 17 ePKP 28 45.50 3.3X
 GBA 151.18 22 PKP 28 48.30 1.2

S.D. = 1.0 on 77 of 88 obs.

% OCT 06, 1990 10h 10m 16.34 ± 0.91s
 39.051 N ± 7.4km 27.661 E ± 9.5km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.5 (ISK).

IZM 0.72 206 ePg 10 30.70 0.1
 DST 0.93 53 ePn 10 33.90 -0.3
 EZN 1.29 307 ePn 10 40.00 -0.2
 EDC 1.30 7 ePn 10 40.50 0.0
 BNT 1.32 9 ePn 10 41.10 0.4

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

? OCT 06, 1990 10h 17m 28.89 ± 3.35s
 32.010 S ± 18.6km 71.737 W ± 24.9km
 DEPTH = 10.0km (geophysicist)

NEAR COAST OF CENTRAL CHILE (135)

JACH 1.18 125 iPc 17 50.50 -0.4
 iS 18 05.50
 TACH 1.77 158 iP 18 00.50 0.7
 iS 18 23.50
 FCH 1.79 138 iP 18 00.00 -0.4
 iS 18 22.50
 PCH 1.91 148 eP 18 02.50 0.7
 iS 18 26.20
 LNV 1.96 172 eP 18 01.50 -1.0
 iS 18 28.00
 CHCH 2.12 155 iPd 18 05.30 0.4
 iS 18 31.70
 MDZ 2.59 110 eP 18 03.60 -8.0X
 i(S) 18 49.70
 RTLL 2.87 77 eP 18 15.60 0.1

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

% OCT 06, 1990 10h 17m 52.25 ± 0.87s
 39.091 N ± 7.2km 27.634 E ± 9.0km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.7 (ISK).

IZM 0.75 203 ePg 18 07.00 0.0
 eSg 18 18.00
 DST 0.93 56 iPn 18 09.90 -0.1
 EZN 1.25 306 ePn 18 15.40 -0.1
 BNT 1.28 10 ePn 18 16.10 0.1
 KGT 1.38 349 iPn 18 17.60 0.1

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

% OCT 06, 1990 13h 13m 53.21 ± 0.96s
 39.088 N ± 7.7km 27.612 E ± 10.0km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.8 (ISK).

IZM 0.74 202 ePg 14 07.50 -0.3
 eSg 14 20.00
 DST 0.94 56 iPn 14 11.90 0.7
 EZN 1.24 307 ePn 14 17.00 0.8
 EDC 1.27 9 ePn 14 15.50 -1.3
 BNT 1.29 11 ePn 14 17.60 0.5
 KGT 1.38 350 iPn 14 18.10 -0.4

S.D. = 1.1 on 6 of 6 obs.

* OCT 06, 1990 14h 21m 14.13 ± 0.84s
 3.981 N ± 15.2km 62.601 E ± 7.8km
 DEPTH = 10.0km (geophysicist)

CARLSBERG RIDGE (421)

KOD 16.00 66 eP 25 02.60 1.3
 GBA 17.49 56 P 25 27.00 7.2X
 0.3s 0.60nm 3.2mb X
 POO 18.17 36 eP 25 28.50 0.1
 HYB 20.56 48 eP 25 53.50 -2.3
 QUE 26.39 8 eP 26 54.60 1.8
 GKN 31.80 39 P 27 41.60 0.2
 DMN 31.82 40 P 27 42.00 0.3
 PKI 31.99 41 P 27 42.20 -1.1
 KKN 32.06 40 P 27 42.80 -0.9
 MAIO 32.29 355 eP 27 47.00 1.6
 eS 33 13.00

GUN 32.53 41 P 27 47.20 -0.8
 VRI 52.11 329 eP 30 29.00 2.4X
 MLR 52.27 328 ePd 30 30.00 2.0
 SPC 57.61 328 eP 31 06.50 -0.3
 SRO 57.84 326 eP 30 54.40 -13.8X
 e 31 07.70

KRA 58.29 329 eP 31 12.50 1.2
 ZST 58.73 326 eP 31 14.60 0.2
 BJI 60.07 45 eP 31 24.50 0.7
 1.5s 21.00nm 5.0mb
 KSP 60.64 328 eP 31 27.00 -0.6
 KHC 61.20 326 P 31 32.10 0.6
 BRG 61.91 327 eP 31 36.50 0.3
 1.4s 17.00nm 5.0mb
 CLL 62.64 327 iPc 31 41.70 0.7

1.8s 51.00nm 5.4mb
 LPG 63.71 320 eP 31 45.00 -3.6X
 LPL 63.73 320 eP 31 45.10 -3.5X
 FEL 63.89 322 eP 31 48.78 -0.7
 LOR 66.23 320 eP 32 03.70 -0.8
 1.3s 18.05nm 5.1mb
 SSF 66.38 320 eP 32 04.60 -0.9
 1.2s 16.35nm 5.1mb
 BGF 66.63 320 eP 32 06.60 -0.5
 1.5s 78.35nm 5.7mb
 MAF 66.70 319 eP 32 07.20 -0.3
 1.0s 11.00nm 5.0mb
 HFS 67.18 336 eP 32 08.50 -1.8
 1.4s 70.60nm 5.7mb
 Z 19s 0.28um 4.5msz
 LR 02 28.00
 SOD 67.91 346 eP 32 33.00 18.2X
 NB2 68.70 336 P 32 18.90 -1.0
 1.2s 25.00nm 5.3mb
 WB5 74.31 112 eP 32 53.90 -0.2
 ASPA 74.59 116 eP 32 57.00 1.3
 1.1s 8.40nm 4.7mb
 S.D. = 1.1 on 28 of 34 obs.

OCT 06, 1990 14h 33m 01.32 ± 0.54s
 36.424 N ± 4.4km 140.583 E ± 4.4km
 DEPTH = 70.4 ± 4.2 km
 5.1mb (40 obs.)

NEAR EAST COAST OF HONSHU, JAPAN(228)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 13S, 22C

Centroid Location:

Origin Time 14:33: 2.7 0.6

Lat 36.42N 0.07 Lon 140.51E 0.07

Dep 39.7 6.4 Half-duration 1.5

Moment Tensor: Scale 10⁻¹⁶ Nm

Mrr= 5.11 0.32 Mtt=-0.56 0.47

Mff=-4.54 0.50 Mrt= 0.39 0.79

Mrf= 4.83 0.97 Mtf=-1.96 0.50

Principal Axes:

T Vol= 7.13 Plg=67 Azm=262

N 0.00 9 14

P -7.14 21 108

Best Double Couple: Mo=7.1*10⁻¹⁶

NP1: Strike=214 Dip=25 Slip= 112

NP2: 10 67 80

KAKJ 0.40 237 iPd 33 12.20 -1.2
 S 33 19.60
 CHJJ 1.34 254 iPd 33 24.30 -0.2
 S 33 39.50
 NIJJ 1.51 303 iPd 33 26.80 0.0
 eS 33 48.70
 YAMJ 1.00 346 iPd 33 30.40 -0.4
 eS 33 45.40
 MAT 1.92 274 iPd 33 32.30 -0.1
 eS 33 48.00
 MTMJ 2.24 275 iPd 33 37.90 0.9
 IIDJ 2.36 247 iPd 33 40.30 1.7
 S 34 12.60

OFUJ 2.79 18 iP+ 33 42.70 -1.8
 TSRJ 3.83 258 iPd 34 00.20 1.1
 AOMJ 4.13 358 P 34 03.60 0.3
 WKYJ 4.63 243 P 34 10.50 0.0
 TKSJ 5.88 247 P 34 27.90 0.1
 YONJ 5.92 260 P 34 29.30 1.0
 MRRJ 6.01 3 P 34 26.90 -2.6
 SHK 6.72 256 eP 34 40.30 0.8
 MDJ 11.69 318 iPc 35 49.60 2.4
 1.5s 250.00nm 5.9mb
 Z 22s 2.40um 4.6mszX
 sP 36 06.10
 iS 38 08.00

CN2 13.72 307 eP 36 15.00 1.1
 1.0s 4000.00nm 6.9mb X
 Z 22s 17.00um 5.0msz
 SNY 14.25 297 eP 36 21.80 0.9
 Z 30s 2.20um

DL2 15.22 285 Pd 36 36.00 2.6
 SSE 16.97 257 P 37 01.20 5.7X
 1.3s 50.00nm 4.6mb
 Z 20s 1.80um 4.5mszX
 TIA 18.90 276 P 37 16.50 -2.5
 BJI 19.49 288 eP 37 23.00 -2.3
 1.2s 40.00nm 4.6mb
 TIY 22.47 282 eP 37 52.00 -3.6X

Z	18s	2.00um	4.6Msz	LR	15	46.00	eS	38	40.52
WHN	22.62	263 eP	37 56.00	-0.9	NB2	74.49	337 P	44 33.20	-0.3
HNC	23.04	290 eP	38 03.00	1.8		1.0s	31.20nm		5.2mb
		pP	38 18.00	64kmX	FFC	74.58	32 eP	44 34.00	-0.1
GUMO	23.06	169 e(P)	37 52.80	-8.6X		1.0s	26.00nm		5.1mb
PJG	23.06	169 e(P)	37 52.90	-8.5X	TNP	76.79	52 P	44 48.00	0.8
GUA	23.12	169 e(P)	38 11.20	9.3X		0.8s	5.88nm		4.6mb
	0.5s	61.97nm		5.3mb	AKU	76.88	351 iP	44 49.00	2.1
XAN	25.91	274 P	38 26.50	-2.0		1.0s	28.00nm		5.2mb
GZH	27.02	248 P	38 38.50	-0.1	BW06	78.56	45 P	44 57.00	0.1
LZH	29.52	280 eP	38 58.00	-3.3X	KRA	79.22	326 ePc	45 00.70	0.7
	2.0s	400.00nm		5.8mb		1.1s	50.00nm		5.4mb
Z	18s	1.10um		4.5Msz		e	45 15.20		
		sP	39 23.60		SPC	79.70	325 eP	45 02.80	0.0
GYA	30.46	261 P	39 07.80	-1.8	KSP	80.27	328 iPc	45 06.20	0.6
		pP	39 21.80	56kmX		1.1s	29.00nm		5.1mb
CD2	31.01	271 eP	39 13.20	-1.1			ic	45 20.60	
GTA	32.11	288 eP	39 22.50	-1.5	BRG	81.23	329 iPc	45 10.80	0.1
	1.2s	20.00nm		4.8mb		1.1s	21.00nm		5.0mb
Z	18s	1.20um		4.6Msz		i	45 25.40		
KMI	34.21	262 Pd	39 41.00	-1.4	CLL	81.29	330 iPc	45 11.10	0.2
	1.5s	100.00nm		5.5mb		1.3s	42.00nm		5.2mb
		pP	39 59.00	75kmX		i	45 25.50		
CHG	40.49	256 eP	40 34.90	0.0	BUD	81.49	324 e(P)	45 12.00	0.0
CHTO	40.49	256 eP	40 34.60	-0.3	SRO	81.58	325 P	45 12.60	0.1
	1.2s	10.76nm		4.6mb	PRU	81.65	328 Pc	45 13.40	0.6
WMO	40.52	297 P	40 35.40	0.4			e	45 22.00	
Z	24s	0.60um		4.4MszX	ZST	81.86	326 eP	45 14.60	0.7
		eS	46 44.00		MOX	82.36	330 ePc	45 17.00	0.4
LSA	41.60	275 eP	40 44.90	0.4		1.4s	26.00nm		5.0mb
NNT	43.64	248 eP	40 51.20	-9.4X			e	45 31.50	
TTA	46.30	34 P	41 22.50	1.1	KHC	82.71	328 iPc	45 19.30	0.9
GUN	46.55	276 P	41 24.20	0.0		1.2s	15.00nm		4.8mb
	0.6s	50.00nm		5.7mb			e	45 34.00	
PKI	47.07	276 P	41 27.80	-0.5	GRF	83.26	330 iPc	45 22.30	1.1
	0.6s	27.00nm		5.4mb		1.5s	85.00nm		5.5mb
KKN	47.08	276 P	41 28.00	-0.2	Z	20s	0.10um		4.2Msz
DMN	47.30	276 P	41 29.80	-0.2			ec	45 31.20	
GKN	47.51	277 P	41 31.20	-0.3	NOH	83.50	303 iPc	45 22.60	-0.3
IMA	47.55	30 P	41 31.70	0.4	PRNI	83.70	303 iPc	45 23.60	-0.2
	1.0s	5.38nm		4.4mb	BHG	84.09	328 eP	45 26.70	1.2
KDC	48.05	42 P	41 35.50	0.4	MBH	84.13	303 iPc	45 25.40	-0.5
IPM	48.18	238 ePd	41 38.10	1.5	SKO	84.21	319 iPc	45 27.00	0.9
PMR	49.51	36 P	41 46.00	-0.3		1.2s	55.00nm		5.5mb
	1.0s	13.00nm		4.9mb	OHR	85.15	319 ePc	45 31.10	0.1
MTN	49.81	192 eP	41 49.00	0.0		1.2s	67.00nm		5.6mb
FBA	49.97	32 P	41 50.40	0.6			e	45 44.30	
	0.8s	8.62nm		4.8mb	ANMO	85.49	49 P	45 34.00	1.1
KSH	50.06	294 eP	41 52.00	1.0	ALQ	85.49	49 eP	45 33.00	0.0
INK	55.23	27 eP	42 29.00	0.1		1.0s	7.50nm		4.7mb
WB5	56.30	187 eP	42 36.00	-1.1	LOR	88.11	332 eP	45 44.70	-0.6
QIS	56.68	181 eP	42 38.00	-0.9		1.1s	12.20nm		5.0mb
MBC	57.30	16 eP	42 43.50	0.0	Z	20s	0.13um		4.3Msz
	1.0s	12.00nm		5.0mb	SMF	88.64	332 eP	45 47.60	-0.2
HYB	57.52	268 eP	42 45.00	-0.9	AVF	88.70	332 eP	45 47.80	-0.2
ASPA	60.10	187 iPc	43 02.90	-0.6		0.9s	8.20nm		4.9mb
	1.0s	17.00nm		5.1mb	MAF	89.47	332 eP	45 52.10	0.3
Z	24s	0.21um		4.2MszX		1.3s	32.50nm		5.4mb
QUE	60.49	287 eP	43 06.00	-0.5	LSF	89.83	333 eP	45 53.10	-0.3
GBA	60.50	265 P	43 05.90	-0.5		1.1s	17.10nm		5.2mb
POO	60.72	272 iP	43 06.30	-1.7	LKO	124.30	318 PKP	51 50.80	-3.4X
KOD	62.40	262 eP	43 19.00	-0.6	ZOBO	147.57	59 ePKP	52 31.00	-6.4X
RMO	63.05	172 eP	43 22.80	-0.4	Z	20s	0.15um		4.8Msz
DZM	63.10	153 iPc	43 25.80	2.1			i	52 38.00	
NANU	63.26	206 eP	43 25.00	0.3			LR	27 44.00	
MAIO	63.30	297 iPc	43 25.00	0.0	LPB	147.77	60 PKP	52 41.00	3.5X
WARB	63.64	194 iPd	43 27.80	0.6	CNCB	148.04	60 PKP	52 40.70	2.6X
	0.4s	4.00nm		4.8mb	CAI	150.17	355 ePKP	52 45.60	4.8X
KEV	63.78	339 eP	43 15.00	-12.6X	SIV	151.99	49 PKP	52 45.00	1.5
YKA	64.67	30 eP	43 32.90	-0.6			i	52 51.20	
	0.9s	4.30nm		4.4mb		S.D. = 1.0	on 102 of 116 obs.		
SOD	65.27	337 iP	43 36.60	-0.7		& OCT 06, 1990	14h 37m 57.85s		
DAG	66.33	355 iPd	43 43.00	-0.9		62.988 N	151.045 W		
	1.0s	20.33nm		5.2mb		DEPTH = 121.6km			
SUF	68.23	333 iP	43 55.20	-0.8		CENTRAL ALASKA	(1)		
	0.4s	10.00nm		5.1mb		<AGS-P>.			
RMW	68.79	46 P	44 00.40	0.5	HUR	0.64	90 eP	38 16.80	-0.4
PNT	69.07	44 eP	44 16.00	14.5X			eS	38 31.39	
LON	69.16	47 P	44 02.00	-0.1	CUT	0.69	148 iP	38 17.40	-0.1
NUR	70.17	332 iP	44 07.60	-0.3	SKT	1.04	193 iP	38 20.29	-0.4
	0.8s	20.50nm		5.1mb			eS	38 37.86	
NEW	71.03	44 P	44 13.00	-0.5	RND	1.08	66 eP	38 20.58	-0.6
	1.0s	7.50nm		4.6mb			eS	38 37.88	
SES	73.05	39 eP	44 25.00	-0.4	MCK	1.21	51 eP	38 21.81	-0.7
HFS	74.37	335 eP	44 31.70	-1.1					
	1.1s	27.20nm		5.1mb					
Z	19s	0.28um		4.6Msz					

PWA	1.45	157 eP	38 24.84	-0.3
SUA	1.54	175 eP	38 26.02	-0.3
		eS	38 48.04	
GHO	1.57	140 eP	38 26.16	-0.5
		eS	38 48.60	
PLRM	1.66	147 eP	38 26.74	-0.9
		eS	38 49.52	
PMR	1.66	147 iPc	38 26.70	-0.9
NCG	1.67	199 iP	38 27.15	-0.8
		eS	38 50.49	
SML	1.73	132 iP	38 27.72	-0.8
CGLM	1.75	195 eP	38 27.95	-0.8
CRP	1.80	197 eP	38 28.91	-0.7
		eS	38 52.90	
NEA	1.82	28 eP	38 28.14	-1.4
BGL	1.84	201 eP	38 29.48	-0.5
SPU	1.87	195 iP	38 29.33	-1.0
		eS	38 53.64	
PMS	1.88	158 eP	38 29.48	-1.0
		eS	38 53.95	
CKL	1.90	199 eP	38 30.00	-0.7
		eS	38 55.56	
WRH	1.99	40 iP	38 30.52	-1.1
SCM	2.08	122 eP	38 31.62	-1.3
CCB	2.20	39 eP	38 32.96	-1.4
NKA	2.26	182 eP	38 36.63	1.6
TTA	2.27	271 iPc	38 33.80	-1.6
HDA	2.31	50 eP	38 34.29	-1.5
FBA	2.40	35 iPc	38 35.30	-1.6
TOA	2.43	109 iPc	38 36.80	-0.6
RDY	2.51	196 eP	38 37.32	-1.1
SLKM	2.52	171 eP	38 37.69	-0.9
SDG	2.57	98 eP	38 38.56	-0.7
GLM	2.57	37 iP	38 37.93	-1.3
RSO	2.66	199 eP	38 39.81	-0.8
GLI	2.82	137 eP	38 40.68	-1.8
KLU	2.83	120 eP	38 40.60	-2.1
SVW	2.86	231 iPd	38 41.70	-1.4
VZW	2.87	130 eP	38 40.95	-2.2
VLZ	2.90	128 eP	38 41.15	-2.3
NNL	2.96	182 eP	38 44.87	0.6
SEW	2.99	165 eP	38 43.48	-1.2
KNIM	3.08	148 eP	38 43.29	-2.7
DOT	3.22	75 eP	38 45.90	-1.9
IMA	3.30	341 iPc	38 46.90	-2.0
HOM	3.35	185 eP	38 49.17	-0.4
MTU	3.42	150 eP	38 48.33	-2.2
CNPM	3.48	182 eP	38 49.93	-1.3
OPT	3.51	198 eP	38 50.88	-0.8
PDB	3.55	207 eP	38 51.02	-1.2
XLV	3.56	186 eP	38 51.14	-1.2
GLB	3.73	111 eP	38 52.78	-1.8
AUE	3.81	198 eP	38 55.63	-0.1
MCNL	4.14	204 eP	38 58.68	-1.5
CDD	4.26	198 eP	38 59.98	-1.9
BALM	4.54	112 eP	39 03.51	-2.2
53 obs. associated				
& OCT 06, 1990 15h 09m 59.18s				
60.027 N 141.077 W				
DEPTH = 0.0km				
SOUTHEASTERN ALASKA (19)				
<AGS-P>.				
TGL	1.14	311 eP	10 20.16	-1.3
		eS	10 36.02	
BALM	1.19	329 eP	10 20.71	-1.7
		eS	10 37.17	
GLB	1.95	318 eP	10 31.78	-2.2
KLU	2.80	304 eP	10 43.43	-2.7
VLZ	2.82	295 eP	10 45.84	-0.5
VZW	2.90	293 eP	10 46.34	-1.2
GLI	3.10	289 eP	10 50.35	0.0
TOA	3.24	312 eP	10 52.42	0.1
SDG	3.31	321 eP	10 52.36	-0.9
9 obs. associated				
* OCT 06, 1990 17h 10m 26.76± 1.41s				
31.679 S ± 7.1km 72.115 W ±13.6km				
DEPTH = 60.2 ± 12.4 km				
4.7mb (1 obs.)				
OFF COAST OF CENTRAL CHILE (134)				
IHA	1.40	163 eP	10 50.50	0.1
		iS	11 12.40	
ROCH	1.59	144 iPd	10 52.30	-1.0

06d 17h

JACH	1.63	128	iS	11 12.50	
			iPc	10 52.10	-1.6
			iS	11 11.50	
LCCM	1.85	166	iPd	10 57.10	0.5
			i	11 22.50	
PEL	1.90	141	iP	10 57.00	-0.3
			iS	11 19.00	
SAN	2.15	146	iPd	11 01.20	0.3
			i	11 26.20	
			iS	11 31.60	
TACH	2.21	154	iP	11 02.00	0.4
			iS	11 27.50	
FCH	2.25	137	iPd	11 02.50	-0.1
			iS	11 29.50	
LVN	2.35	166	iPd	11 03.40	-0.2
			iS	11 31.50	
			i	11 38.20	
CHCH	2.56	152	iPd	11 06.70	0.0
			i	11 37.60	
			iS	11 42.40	
RTCB	2.84	87	iPc	11 10.80	0.1
ZON	2.94	88	iPd	11 12.50	0.5
			eS	11 49.50	
MDZ	3.02	114	iPc	11 15.20	2.0
			i	11 25.00	
			i	11 54.50	
RTCV	3.05	94	eP	11 13.70	0.0
RTLL	3.13	85	e(P)	11 14.20	-0.6
			e	11 14.90	
ANT	8.08	11	e(P)	12 36.70	12.8X
CNCB	15.27	15	eP	14 02.00	1.3
LPB	15.51	15	P	14 00.00	-3.7X
ZOBO	15.76	14	P	14 07.00	0.0

Z	18s	0.10um			
		LR	20 16.00		
SIV	18.58	35	P	14 39.30	-2.1
PPD	20.87	68	(P)	15 08.00	2.0
BAO	27.17	60	eP	16 05.00	-1.6
LIC	74.11	72	P	21 59.20	0.5
TIC	74.36	72	P	22 01.00	0.9
KIC	74.43	72	P	22 01.20	0.7
LKO	75.59	69	P	22 05.38	-1.8
	0.6s	6.50nm		4.7mb	
GBA	146.80	116	PKPc	30 05.50	3.2X
	0.7s	3.60nm			
S.D. = 1.2 on 24 of 27 obs.					

? OCT 06, 1990 17h 19m 23.59 ± 9.94s
 0.123 S ± 18.7km 79.523 W ± 68.4km
 DEPTH = 10.0km (geophysicist)
 ECUADOR (107)

GGP	0.93	93	eP	19 42.20	0.5
YANA	0.95	90	eP	19 42.00	0.0
OUR	1.00	93	eP	19 42.80	0.0
			eS	20 19.00	
VC1	1.23	115	P	19 46.50	-0.4
COTA	1.27	69	P	19 47.00	-0.5
CAYA	1.55	83	P	19 52.20	0.4
S.D. = 0.5 on 6 of 6 obs.					

* OCT 06, 1990 18h 29m 29.50 ± 1.45s
 47.524 N ± 10.2km 7.263 E ± 9.9km
 DEPTH = 10.0km (geophysicist)
 SWITZERLAND (544)
 ML 2.5 (LDG). MD 1.7 (STR).

MOF	0.34	345	Pg	29 37.90	1.3
			Sg	29 43.08	
LOMF	0.34	240	Pg	29 37.15	0.5
BSF	0.44	314	Pg	29 36.60	-2.0
			Sg	29 46.40	
FEL	0.62	55	ePg	29 41.23	-0.8
ECH	0.70	354	Pg	29 43.94	0.7
			Sg	29 53.82	
HAU	0.78	308	Pg	29 41.20	-3.6X
			Sg	29 56.80	
CDF	0.89	1	Pg	29 46.66	0.0
			Sg	29 59.82	
WLS	0.89	4	Pg	29 46.79	0.2
			Sg	30 00.22	
S.D. = 1.3 on 7 of 8 obs.					

OCT 06, 1990 19h 09m 56.18 ± 0.21s
 45.496 N ± 2.4km 26.234 E ± 2.2km
 DEPTH = 142.2 ± 2.7 km
 4.8mb (49 obs.)

ROMANIA				(358)		
MD 4.7 (ATH). Felt (V) in the						
Vrancea region and (IV) at						
Bucharest.						
MLR	0.20	269	iPc	10	16.00	0.7
CVO	0.33	353	iPc	10	16.00	0.5
ISR	0.42	148	iPc	10	16.50	-0.1
VR1	0.51	42	iPc	10	17.00	0.1
MTUR	0.87	252	iPc	10	19.50	0.0
CMP	0.87	255	iPc	10	20.00	0.5
BUC	1.09	185	iPd	10	18.00	-3.2X
BUC1	1.16	187	iPc	10	22.50	0.6
BAC	1.17	23	iP	10	21.00	-1.0
CLI	1.28	34	iPc	10	55.00	31.8X
COZ	1.34	263	iPd	10	24.00	0.0
TNR	1.39	277	iPc	10	23.00	-1.3
CFR	1.39	102	ePc	10	25.00	0.7
TLB	1.57	125	iPc	10	26.50	0.3
DRA	1.62	240	iPc	10	28.00	1.2
IAS	1.93	28	iPc	10	31.00	0.6
SRE	2.30	250	iPd	10	34.50	-0.4
DEV	2.37	281	iPd	10	37.00	1.3
PVL	2.37	196	iPd	10	37.00	1.3
			iS	11	03.00	
JMB	3.04	175	iPd	10	44.00	-0.3
			iS	11	15.00	
BZS	3.25	274	iPc	10	46.00	-1.0
PCB	3.30	208	iPd	10	48.00	0.2
			iS	11	20.00	
CEI	3.40	311	eP	10	52.00	3.0X
DIM	3.48	189	iP	10	50.00	-0.1
			Pg	10	58.00	
PLD	3.57	199	eP	10	50.00	-1.2
			iSg	11	25.00	
VTS	3.63	218	iP	10	52.00	-0.2
			iSg	11	25.00	
DMK	3.84	163	iPn	10	54.60	-0.2
KDZ	3.89	189	iPd	10	56.00	0.5
			eS	11	37.00	
RZN	3.96	197	iPd	10	57.00	0.3
			iS	11	31.00	
BEO	4.14	263	iPn	10	58.00	-0.8
			i	11	43.50	
KKB	4.29	213	iPd	11	01.00	0.2
			iS	11	41.00	
MMB	4.31	206	iPd	11	02.00	0.9
			eS	12	01.00	
RDO	4.38	187	ePn	11	01.50	-0.5
ALN	4.60	182	iPc	11	04.00	-0.9
			iS	11	45.00	
CTT	4.63	159	iPn	11	05.00	-0.4
SRS	4.78	205	iPc	11	07.00	-0.4
			iS	11	50.00	
ISK	4.88	154	iPn	11	08.40	-0.4
SKO	4.95	226	ePn	11	08.00	-1.6
			i	11	09.80	
			iSn	11	56.50	
			i	12	03.50	
			Lg	12	18.50	
KNT	4.97	210	iPc	11	10.00	0.1
PSZ	4.99	301	iP	11	09.00	-1.2
KG7	5.10	171	iPn	11	10.40	-1.3
IVA	5.26	242	ePn	11	14.50	0.6
			eSn	12	10.00	
BNT	5.28	166	iPn	11	13.80	-0.4
EDC	5.28	166	iPn	11	13.00	-1.1
HRT	5.30	151	iP	11	15.00	0.6
PLE	5.36	249	ePn	11	15.50	0.3
			eSn	12	10.00	
BUD	5.36	294	iPd	11	14.00	-1.2
PVY	5.36	239	ePn	11	16.50	1.2
			eSn	12	13.00	
THE	5.42	207	iPc	11	16.70	0.8
			iS	12	06.00	
YLV	5.44	154	iP	11	16.50	0.2
KCT	5.47	163	iP	11	15.50	-1.2
PLG	5.51	203	ePn	11	17.50	0.2
EZN	5.67	179	iP	11	18.50	-0.8
IZI	5.68	154	iP	11	19.40	-0.1
TTG	5.89	241	ePn	11	23.50	1.2
			eSn	12	25.00	
FNA	5.90	219	iPc	11	22.50	0.0
OHR	5.91	224	iPn	11	22.80	0.2
SRO	5.92	296	iPd	11	23.10	0.4
			i	13	16.60	
GPA	6.00	149	iP	11	24.10	0.2

LIT	6.05	208	iPc	11	23.20	-1.3
KZN	6.13	214	ePn	11	25.20	-0.5
DST	6.15	162	iP	11	24.90	-0.9
ULC	6.17	238	ePn	11	28.00	1.9
			eSn	12	35.00	
KRA	6.23	319	iPd	11	26.20	-0.7
			i	11	37.20	
			e	12	44.00	
BDV	6.24	242	ePn	11	29.20	2.1
			eSn	12	36.00	
PRK	6.25	180	ePn	11	26.80	-0.3
HCY	6.36	244	ePn	11	29.50	0.8
			eSn	12	37.00	
ZST	6.82	297	iP	11	33.80	-1.1
			i	11	41.90	
			e	13	42.10	
KAS	6.86	124	iPd	11	35.10	-0.4
SOP	7.02	292	iPd	11	38.90	1.3
ALT	7.05	155	iP	11	37.90	-0.2
AGG	7.09	205	iPc	11	38.00	-0.6
IZM	7.13	173	eP	11	34.70	-4.6X
ZAG	7.19	276	iPc	11	41.50	1.6
PTJ	7.21	277	eP	11	39.50	-0.8
VKA	7.34	296	iPd	11	41.50	-0.4
	2.5s	597.00nm			5.7mb	
		i	11	51.30		
		i	13	49.00		
EVR	7.35	208	ePn	11	42.00	-0.2
KHL	7.57	160	iP	11	44.70	-0.5
LJU	8.20	278	eP	11	53.50	0.0
CEY	8.28	276	eP	11	56.00	1.4
KVT	8.41	118	iP	11	53.90	-2.4
KSP	8.53	312	iPd	11	56.30	-1.5
	1.5s	118.00nm			5.3mb	
		i	12	07.00		
VOY	8.65	278	eP	11	59.80	0.3
BCK	8.67	156	eP	12	00.00	0.2
KMR	8.69	291	iP-	12	01.00	1.0
TRI	8.75	276	eP	12	02.40	1.7
ITM	8.92	203	ePn	12	03.00	0.0
ORI	9.01	236	P	12	03.00	-1.3
PRU	9.07	304	Pd	12	04.40	-0.6
	1.5s	78.10nm			5.1mb	
		e	12	12.20		
VLI	9.11	197	ePn	12	06.00	0.4
CSI	9.29	236	P	12	06.80	-1.2
KHC	9.33	297	iPd	12	09.00	0.4
	1.4s	70.00nm			5.1mb	
DUI	9.37	250	P	12	08.50	-0.5
MMN	9.39	237	P	12	09.40	0.1
SGD	9.40	242	P	12	08.00	-1.3
FVI	9.42	281	P	12	12.00	2.3
BHG	9.46	288	iPc	12	11.70	1.5
CZI	9.75	234	P	12	14.00	-0.1
SDI	9.77	252	P	12	18.00	3.6X
WET	9.77	297	iPd	12	14.50	0.1
BRG	9.81	308	iPc	12	13.00	-1.8
	1.8s	120.00nm			5.3mb	
		i	12	34.10		
		e	15	40.80		
		e	16	14.50		
AZI	9.90	254	P	12	36.00	20.0X
ASS	10.03	261	P	12	17.30	-0.5
CTI	10.21	278	P	12	22.00	1.8
MNS	10.26	257	P	12	20.00	-0.8
WATA	10.29	286	iPc	12	24.40	3.1X
	1.5s	75.00nm			5.1mb	
		i	12	43.60		
SFI	10.36	266	P	12	25.00	2.9X
CRE	10.36	265	P	12	22.50	0.2
PGD	10.46	266	P	12	23.50	-0.1
CLL	10.54	308	eP	12	22.00	-2.4
	1.9s	53.00nm			4.9mb	
		i	12	31.00		
FUR	10.59	290	eP	12	25.50	0.3
		i	12	36.30		
SOI	10.61	229	P	12	23.50	-1.9
OGA	10.64	283	iPc	12	31.00	5.0X
HOF	10.77	302	iPc	12	28.20	0.7
GRF	10.97	298	eP	12	29.30	-0.8
	Z	18s	0.30um			
MOX	11.05	303	eP	12	30.50	-0.7
	2.0s	196.00nm			5.4mb	
		e	12	40.00		
		e	14	08.50		
BDI	11.21	268	P	12	36.50	3.2X
MDI	11.58	277	P	12	47.00	9.0X

GIB	11.80	235 P	12 40.00	-1.0	EPF	18.68	272 eP	14 02.90	-3.0X	SOUTH OF FIJI ISLANDS (171)				
CSS	11.83	150 eP	12 43.80	2.4		0.5s	7.30nm		4.3mb	SVA	6.80	350 eP	50 59.00	0.1
BOB	11.88	272 P	12 51.00	8.9X	GRR	18.69	289 eP	14 01.50	-4.3X	VUN	6.91	350 eP	50 59.00	-1.0
VAI	12.22	278 P	12 50.00	3.6X		0.9s	24.55nm		4.5mb	SGE	7.41	347 eP	51 05.20	-0.1
PCP	12.56	272 P	12 58.31	7.4X	LPF	18.82	288 eP	14 03.60	-3.6X	MBU	7.89	353 eP	51 10.50	0.3
PGF	12.75	263 eP	12 57.00	3.5X	EROO	19.37	265 eP	14 12.00	-1.0	NDE	8.23	358 eP	51 03.10	-10.7X
	1.2s	110.10nm		5.2mb	ECRI	20.81	272 eP	14 27.80	0.1	YSA	8.35	346 eP	51 14.60	-0.3
CKI	12.77	272 P	13 00.00	6.5X	EKA	21.01	309 P	14 35.00	5.6X	DZM	12.46	280 iPc	52 00.20	2.1
ORX	12.80	277 P	13 02.00	8.0X		1.7s	175.60nm		5.2mb		IS	54 18.30		
FIN	12.86	271 P	13 00.57	5.8X	ETOR	21.11	267 eP	14 30.70	0.1	HBZ	12.76	185 eP	52 02.10	1.1
ROB	13.08	271 P	13 02.92	5.3X	SOD	21.93	0 iP	14 39.20	0.8	PUZ	13.23	185 eP	52 04.30	-1.7
IMI	13.15	270 P	13 04.05	5.5X			i	14 44.60			eS	54 24.00		
CDF	13.27	289 eP	12 58.70	-1.5	EVIA	22.33	262 eP	14 43.60	0.9	WLZ	13.41	194 P	52 10.10	2.4
RSP	13.36	275 P	13 04.67	3.3X	GUD	22.65	268 iPc	14 45.40	-0.4	TAZ	13.61	191 eP	52 12.60	2.9
LSD	13.39	277 P	13 08.67	6.8X	TOL	22.87	267 iPc	14 48.00	0.2	NOZ	13.79	185 eP	52 12.50	0.9
BHB	13.40	274 P	13 05.84	4.1X		1.3s	307.69nm		5.6mb		S	54 33.00		
ENR	13.41	271 P	13 06.92	5.0X	EBAN	23.44	262 eP	14 53.20	-0.2	NGZ	14.69	193 eP	52 22.60	1.7
STV	13.47	271 P	13 06.31	3.6X	AFC	23.71	260 eP	14 55.80	-0.3	PGZ	15.98	189 eP	52 33.20	-0.4
DOI	13.48	273 P	13 05.50	2.7	ECOG	23.72	260 eP	14 55.60	-0.5	MNG	16.11	192 eP	52 32.60	-2.3
SBF	13.48	270 eP	13 05.70	2.9X	KEV	24.33	1 eP	15 02.00	0.5		S	55 19.10		
BSF	13.55	287 eP	13 05.00	1.2			e	15 16.00		MTW	16.63	191 eP	52 39.10	-1.0
	1.0s	20.00nm		4.5mb	MAIO	26.61	98 eP	15 31.00	8.1X	CAW	16.66	192 eP	52 40.30	-0.1
PZZ	13.58	273 P	13 07.54	3.4X	WMO	42.80	69 iPc	17 43.00	1.9	WDW	16.83	192 eP	52 40.50	-1.5
LPG	13.67	277 eP	13 07.80	2.4	NDI	43.24	95 iPc	17 46.70	2.0	BLW	16.84	191 eP	52 41.20	-0.9
	1.3s	101.10nm		5.0mb		0.5s	26.76nm		5.2mb	MRW	16.85	193 eP	52 40.20	-2.0
LPL	13.68	277 eP	13 07.90	2.4	LKO	45.04	227 P	17 55.92	-3.4X		S	55 32.90		
	0.9s	24.55nm		4.6mb	TIC	47.23	225 P	18 15.24	-1.3	WEL	16.89	193 P	52 43.00	0.4
RRL	13.73	275 P	13 12.15	6.0X	KIC	47.34	224 P	18 16.40	-1.0		S	55 35.00		
BNI	13.78	275 P	13 11.50	4.8X		0.3s	5.50nm		4.8mb	TCW	16.92	194 eP	52 42.70	-0.2
HAU	13.86	288 eP	13 08.20	0.6	LIC	47.60	224 P	18 18.36	-1.0	MOW	16.93	191 eP	52 41.70	-1.3
	1.1s	19.55nm		4.4mb		0.2s	3.50nm		4.8mb	THZ	17.78	197 eP	52 52.80	1.5
Z	20s	0.13um			DMN	49.43	90 P	18 34.80	1.1	KHZ	18.24	195 P	52 55.70	0.1
FRF	14.11	269 eP	13 13.00	2.3	KKN	49.44	90 P	18 34.40	0.6	LTZ	18.90	197 P	53 01.70	-0.4
	1.3s	93.85nm		4.9mb	PKI	49.67	90 P	18 36.30	0.7	MOZ	19.67	195 eP	53 09.40	0.0
ADI	14.21	148 iPc	13 12.90	0.9	GUN	49.79	89 P	18 37.40	0.8	TVO	29.74	82 iP	54 39.50	-0.5
LMR	14.26	268 eP	13 14.70	2.1	GTA	52.88	69 eP	19 00.00	0.7		0.8s	25.00nm		4.8mb
	1.2s	86.30nm		4.9mb	GBA	53.51	110 Pd	19 02.60	-1.4	CMS	30.48	250 iPc	54 47.20	1.1
LRG	14.34	269 eP	13 15.90	2.3		0.6s	4.70nm		4.5mb	PMO	31.95	78 iP	54 58.20	-0.5
	1.5s	198.50nm		5.2mb	LZH	57.38	70 P	19 32.50	0.7		0.8s	30.00nm		4.9mb
MML	14.85	148 iPc	13 21.10	0.9		1.8s	20.00nm		4.8mb	VAH	32.09	79 iP	55 00.20	0.3
NUR	15.07	357 iP	13 19.40	-3.2X	HHC	59.56	61 eP	19 47.40	0.5		0.8s	30.00nm		4.9mb
	1.0s	152.00nm		5.3mb	CD2	60.40	75 eP	19 53.00	0.4	TPT	32.20	78 iP	55 00.40	-0.4
UPP	15.28	343 iP	13 22.70	-2.6	KRI	62.10	176 iPc	20 01.20	-2.8		0.8s	60.00nm		5.2mb
	i	13 36.60			BJI	62.87	60 eP	20 09.00	0.2	RUV	32.33	79 iP	55 01.70	-0.2
LBF	15.47	283 eP	13 27.80	0.0		1.0s	10.00nm		4.7mb		0.8s	40.00nm		5.0mb
	1.2s	13.40nm		4.1mb	CHG	64.79	88 ePd	20 22.00	0.3	STK	34.11	249 iPd	55 17.90	1.2
LOR	15.54	285 eP	13 27.70	-0.9		0.9s	16.81nm		5.0mb		0.5s	9.00nm		4.6mb
	0.7s	6.60nm		4.1mb	CHTO	64.79	88 iPc	20 21.90	0.2	PMG	34.54	291 eP	55 20.00	-0.5
Z	21s	0.13um				1.1s	24.44nm		5.0mb		0.8s	31.34nm		4.9mb
SMF	15.58	282 eP	13 29.20	0.0			pP	20 57.60	149kmX	ASPA	41.60	262 iPd	56 18.30	0.1
	1.0s	20.00nm		4.4mb	GYA	65.18	77 P	20 24.20	0.0		0.5s	13.50nm		4.7mb
SSF	15.79	284 eP	13 31.60	-0.1	BUL	65.36	178 iPd	20 25.50	0.3	Z	20s	0.09um		3.6msz
	0.9s	12.30nm		4.2mb		2.5s	166.67nm		5.5mb		eS	01 54.40		
AVF	15.91	283 eP	13 33.00	-0.2	CIR	66.37	175 iPd	20 32.90	1.4	WB5	42.05	267 eP	56 20.20	-1.6
	1.1s	14.65nm		4.2mb	YKA	67.89	342 eP	20 40.00	-0.6		eS	02 01.00		
BGF	16.27	282 eP	13 37.60	-0.1		0.9s	4.00nm		4.3mb	FORR	45.67	250 eP	56 49.00	-0.9
	1.1s	24.40nm		4.4mb	CAI	76.53	246 eP	21 32.50	0.4		0.4s	43.00nm		5.3mb
NOH	16.28	152 iPc	13 38.20	0.2	SES	77.56	334 eP	21 37.00	-0.4	MTN	47.24	275 eP	57 01.00	-1.1
HFS	16.46	337 eP	13 36.70	-3.1X	PNT	80.99	338 eP	21 56.00	0.2	WARB	47.60	256 iPd	57 04.10	-0.7
	0.7s	60.70nm		5.0mb		0.6s	4.00nm		4.3mb		0.4s	9.00nm		4.6mb
Z	18s	0.16um			STK	129.04	98 ePKP	28 48.70	0.3	NANU	58.29	258 eP	58 21.00	-0.4
MAF	16.49	281 eP	13 40.50	0.1		1.8s	54.00nm			MAT	72.52	326 eP	59 49.00	-1.0
	1.2s	32.75nm		4.5mb	S.D. = 1.1 on 173 of 216 obs.					0.6s	5.33nm		4.2mb	
TAB	16.70	109 eP	13 47.00	3.9X	? OCT 06, 1990 19h 10m 17.35±7.08s				ADK	76.47	2 P	00 10.00	-1.6	
TCF	16.73	281 eP	13 42.60	-0.8	48.564 N ±46.4km 8.045 E ±38.4km				SYF	82.22	46 eP	00 43.00	0.5	
	0.9s	9.85nm		4.1mb	DEPTH = 10.0km (geophysicist)				PRS	82.43	44 eP	00 43.90	0.6	
CAF	17.03	277 eP	13 45.80	-1.2	GERMANY (543)				GCC	82.47	43 eP	00 44.20	0.8	
	1.1s	14.65nm		4.2mb	ML 1.9 (LDG).				PCC	82.52	43 eP	00 44.00	0.3	
LSF	17.21	281 eP	13 47.80	-1.3	CDF	0.53	254 Pg	10 28.20	0.0	SAO	82.65	44 eP	00 44.80	0.4
SUF	17.26	360 eP	13 47.00	-2.6			Sg	10 30.40		PRI	82.76	45 eP	00 46.30	1.2
RJF	17.35	278 eP	13 49.90	-1.0	BSF	1.11	229 Pg	10 38.10	-0.2	BRK	82.83	43 eP	00 45.90	0.7
	1.0s	28.00nm		4.5mb			Sg	10 46.70		LLA	82.87	44 eP	00 46.30	0.8
Z	21s	0.22um			HAU	1.26	244 Pg	10 41.00	0.2	MHC	82.88	43 eP	00 46.00	0.3
NRA0	17.56	336 Pn	13 49.90	-3.3X			Sg	10 53.00		ABL	82.92	47 P	00 46.00	0.0
LPO	17.69	276 eP	13 52.90	-2.0	LOR	3.10	247 Pg	11 06.80	-0.4	ARN	82.96	43 P	00 46.50	0.6
	1.1s	41.50nm		4.7mb			Sg	11 40.10		PAS	83.20	48 eP	00 48.00	0.8
NB2	17.90	336 P	13 53.80	-3.5X	SMF	3.43	238 Pg	11 12.40	0.5	MWC	83.32	48 eP	00 48.00	0.0
	1.2s	108.80nm		5.0mb			Sg	11 51.20		BAR	83.37	50 eP	00 48.00	-0.1
LFF	17.95	277 eP	13 56.00	-1.9			Sg			PLM	83.63	49 eP	00 50.00	0.4
	1.3s	101.10nm		5.0mb	S.D. = 0.5 on 5 of 5 obs.				RVR	83.65	48 eP	00 50.00	0.6	
LDF	18.20	289 eP	13 56.20	-4.4X	OCT 06, 1990 19h 49m 13.62±0.41s				SBB	83.75	47 eP	00 50.00	0.0	
	0.9s	31.10nm		4.6mb	24.854 S ± 3.5km 179.676 E ± 5.2km				FRI	83.89	45 eP	00 50.60	0.1	
MFF	18.32	283 eP	13 58.20	-3.7X	DEPTH = 505.8 ± 5.7 km				ISA	83.89	46 eP	00 51.00	0.3	
	0.9s	37.65nm		4.7mb	4.8mb (18 obs.)				CM8	84.09	43 eP	00 51.70	0.1	
FLN	18.43	290 eP	13 58.60	-4.5X						ORV	84.35	42 eP	00 53.00	0.2
	1.0s	34.00nm		4.6mb						WDC	84.37	40 e		

06d 20h

CLC 84.56 47 eP 00 54.00 0.0
 TPC 84.61 49 eP 00 55.00 0.7
 GSC 84.79 47 eP 00 55.00 -0.1
 GLA 84.86 50 eP 00 56.00 0.5
 TNP 86.13 45 P 01 01.00 -0.7
 0.8s 19.61nm 4.9mb

GMW 88.69 35 P 01 30.00 111kmX
 LON 88.69 36 P 01 13.30 0.0
 PGC 89.06 34 eP 01 15.00 0.1
 RMW 89.14 35 P 01 15.00 -0.5
 CHG 89.74 291 eP 01 20.00 1.3
 CHTO 89.74 291 iP 01 20.10 1.4
 0.8s 5.12nm 4.5mb

PMR 89.74 14 P 01 16.50 -1.2
 0.9s 16.15nm 4.9mb
 DUG 90.14 45 P 01 20.00 -0.3
 DAU 91.27 46 P 01 26.00 0.3
 PNT 91.44 35 eP 01 25.00 -0.9
 0.7s 9.00nm 4.9mb

ALQ 91.77 52 eP 01 27.00 -1.0
 1.0s 10.00nm 4.8mb
 ANMO 91.77 52 P 01 27.40 -0.6
 0.8s 5.83nm 4.6mb
 GOL 94.82 48 P 01 41.50 -0.4
 0.8s 6.32nm 4.8mb

SOB1 127.94 125 ePKPc 07 22.70 -0.9
 SUF 138.22 342 ePKP 07 32.00 -9.6X
 NUR 140.42 341 ePKP 07 42.00 -3.6X
 NB2 142.97 351 PKP 07 45.40 -4.7X
 0.9s 29.40nm

HFS 143.42 348 ePKP 07 46.00 -4.8X
 0.5s 73.40nm
 ADI 147.95 293 iPKPc 08 01.60 2.4X
 ZNT 148.19 292 iPKPc 08 02.70 3.2X
 RMN 148.62 288 iPKPc 08 03.50 3.2X
 EKA 149.48 3 PKP 08 05.00 4.2X
 1.2s 53.60nm

VR1 149.81 321 ePKPd 08 06.00 4.4X
 KRA 150.33 333 iPKPc 08 07.60 5.4X
 MLR 150.47 321 ePKPc 08 07.00 4.2X
 SPC 150.86 332 ePKP 08 08.00 5.6X
 KSP 151.06 338 iPKP 08 09.00 6.5X
 CLL 151.67 342 iPKPc 08 10.30 6.2X
 1.0s 58.00nm

BRG 151.79 341 iPKPc 08 10.60 6.3X
 1.5s 40.00nm
 WTS 152.36 350 ePKP 08 11.50 6.5X
 0.7s 32.00nm

PRU 152.38 339 PKPc 08 12.00 6.8X
 MDX 152.65 343 ePKP 08 13.00 7.4X
 KHC 153.43 339 ePKP 08 14.70 8.0X
 0.9s 27.00nm
 ENN 153.68 351 ePKP 08 29.50 22.6X
 0.9s 27.00nm

LIC 160.94 166 PKP 08 16.60 -0.1
 KIC 161.13 166 PKP 08 16.60 -0.1
 TIC 161.34 165 PKP 08 17.10 0.0
 LKO 163.97 161 PKP 08 16.54 -3.2X
 0.7s 9.50nm

S.D. = 0.9 on 86 of 108 obs.

* OCT 06, 1990 20h 25m 02.13 ± 1.27s
 14.870 N ± 16.1km 93.331 W ± 11.5km
 DEPTH = 75.2 ± 12.8 km
 3.7mb (2 obs.)

NEAR COAST OF CHIAPAS, MEXICO (69)

TPX 1.04 88 iPd 25 21.51 -0.1
 IS 25 35.72
 SCX 1.97 20 iP 25 33.89 -0.2
 IS 25 58.88
 OXX 3.93 304 iP 26 02.00 0.4
 IS 26 46.50

EVV 4.06 332 (P) 26 10.00 6.9X
 IIT 6.30 312 (P) 27 15.50 40.8X
 PPM 6.56 310 iP 26 38.47 -0.1
 III 6.84 301 (P) 27 32.50 50.4X
 TUL 21.07 354 eP 29 43.30 1.2
 1.0s 14.70nm 4.3mb

ANMO 23.22 332 eP 30 02.20 -1.3
 0.8s 0.75nm 3.2mb

SIV 44.22 133 eP 33 06.00 0.1
 S.D. = 1.1 on 7 of 10 obs.

* OCT 06, 1990 21h 10m 20.78 ± 1.03s
 11.623 S ± 11.7km 116.650 E ± 14.8km
 DEPTH = 33.0km (normal)
 3.4mb (1 obs.)

SOUTH OF SUMBAWA ISLAND (291)

TRT 5.55 314 ePc 11 43.10 -0.2
 MBL 9.96 163 eP 12 43.00 -1.8
 0.2s 8.00nm 5.6mb X
 IS 14 25.50
 NANU 10.93 185 eP 12 58.40 0.4
 0.2s 8.00nm 5.6mb X

MEKA 15.02 173 eP 13 52.50 0.1
 eS 16 29.50
 WARB 17.28 148 eP 14 21.50 0.2
 0.3s 1.00nm 3.4mb
 eS 17 21.50

MRWA 17.52 182 eP 14 25.00 0.8
 eS 17 27.00
 WB5 18.91 118 eP 14 41.90 0.4
 eS 17 58.80
 COOL 19.61 168 eP 14 43.00 -6.5X
 eS 18 12.00

KLB 19.90 177 eP 14 57.00 4.5X
 eS 18 23.00
 MUN 20.26 181 eP 15 04.00 7.7X
 eS 18 33.00
 NWA0 21.21 179 eP 15 13.00 7.0X
 S.D. = 1.0 on 7 of 11 obs.

* OCT 06, 1990 22h 54m 51.37 ± 7.10s
 43.384 N ± 39.4km 18.498 E ± 40.6km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)
 ML 2.2 (TTG).

BRY 0.48 176 ePg 55 00.00 -0.4
 eSg 55 08.00
 PLE 0.66 94 ePg 55 04.40 -0.1
 eSg 55 11.50
 NKY 0.68 147 ePg 55 05.20 0.3
 eSg 55 12.50

HGY 0.94 180 ePg 55 09.50 0.3
 eSg 55 25.00
 S.D. = 0.6 on 4 of 4 obs.

* OCT 06, 1990 22h 55m 13.66 ± 6.19s
 40.673 N ± 7.9km 29.921 E ± 43.8km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.4 (ISK).

HRT 0.24 308 iPg 55 18.80 -0.1
 YLV 0.43 256 iPg 55 22.40 -0.1
 ISg 55 27.40
 IZI 0.48 226 iPg 55 23.30 -0.1
 ISg 55 29.90

ISK 0.76 301 iPg 55 28.60 0.1
 ISg 55 38.90
 CTT 1.23 293 iPn 55 36.40 -0.1
 KCT 1.27 251 iPn 55 37.40 0.2
 S.D. = 0.2 on 6 of 6 obs.

* OCT 06, 1990 23h 04m 41.56 ± 0.58s
 12.885 N ± 8.5km 144.637 E ± 17.6km
 DEPTH = 33.0km (normal)
 4.6mb (3 obs.)

SOUTH OF MARIANA ISLANDS (210)

Felt (III) on Guam.
 GUA 0.70 22 iPc 04 54.80 -0.2
 eS 05 03.50
 GUMO 0.73 18 eP 04 55.10 -0.3
 PJG 0.73 18 eP 04 55.30 -0.1
 MAT 24.25 347 (P) 09 57.00 0.3

WB5 34.09 197 eP 11 24.80 -0.6
 ASPA 37.81 196 iPd 11 56.60 -0.3
 0.5s 8.30nm 4.9mb
 MBL 41.69 216 iPc 12 29.20 0.2
 0.4s 6.00nm 4.7mb

CHTO 44.26 284 e(P) 12 49.90 -0.1
 1.0s 3.25nm 4.1mb
 ZOBD 148.14 100 PKP 24 25.00 1.1
 LPB 148.15 101 PKP 24 28.00 4.3X
 CNCB 148.25 101 PKP 24 28.00 4.0X

S.D. = 0.6 on 9 of 11 obs.

* OCT 06, 1990 23h 14m 24.88 ± 2.31s
 37.078 N ± 15.0km 142.258 E ± 21.7km
 DEPTH = 33.0km (normal)
 4.2mb (1 obs.)

OFF EAST COAST OF HONSHU, JAPAN (229)

KAKJ 1.89 243 P 14 54.40 -1.0
 S 15 17.60
 OFUJ 2.05 347 P 14 57.10 -0.6
 eS 15 22.80
 YAMJ 2.08 302 P 14 58.00 -0.1
 eS 15 24.80

NIJ 2.61 275 P 15 05.50 -0.1
 CHJJ 2.82 250 P 15 07.50 -1.1
 S 15 43.60
 MAT 3.29 262 eP 15 15.00 -0.4
 eS 15 58.00

MTMJ 3.61 263 eP 15 21.70 1.8
 IIDJ 3.86 247 P 15 24.10 0.7
 GKN 48.77 277 P 23 00.00 -8.8X
 WB5 57.14 189 eP 24 20.00 9.3X
 NB2 74.41 338 P 26 01.70 0.7
 0.8s 2.00nm 4.2mb

CNCB 146.55 61 PKP 34 09.00 5.0X
 S.D. = 1.1 on 9 of 12 obs.

* OCT 07, 1990 00h 07m 43.09 ± 3.56s
 51.261 N ± 27.7km 15.995 E ± 21.5km
 DEPTH = 10.0km (geophysicist)
 POLAND (548)
 ML 3.1 (VKA), 2.8 (KRA).

KSP 0.46 156 iPd 07 52.10 -0.3
 0.7s 59.00nm
 IS 08 00.00
 i 08 02.00

BRG 1.35 254 iPg 08 07.00 -0.9
 ISg 08 28.00
 PRU 1.58 217 ePn 08 12.00 0.9
 Pg 08 13.50
 Sn 08 29.20
 Sg 08 36.50

i 08 43.50
 CLL 1.88 273 e(Pg) 08 16.00 0.5
 ISg 08 41.00
 KHC 2.64 217 Pn 08 26.00 -0.5
 Pg 08 34.20
 Sn 09 02.50
 Sg 09 10.40

KRA 2.78 114 eP 08 33.60 5.1X
 e 09 09.10
 MDX 2.84 259 ePg 08 35.50 6.2X
 ISg 09 14.00
 VKA 3.01 176 ePn 08 32.00 0.4
 iPg 08 40.60
 ISn 09 09.00

iSg 09 21.50
 GRF 3.43 245 e(Pg) 08 51.00 13.3X
 eSg 09 34.40
 S.D. = 0.9 on 6 of 9 obs.

* OCT 07, 1990 00h 12m 52.34 ± 0.42s
 37.500 N ± 3.2km 29.573 E ± 3.6km
 DEPTH = 25.0 ± 4.1 km
 4.2mb (16 obs.) 3.0msz (2 obs.)
 TURKEY (366)
 ML 4.2 (CSS), MD 4.2 (ATH), 4.2 (HLW).

BCK 0.81 92 ePg 13 06.80 -0.9
 KHL 0.82 357 iPg 13 06.70 -1.3
 KSL 1.38 180 ePn 13 17.30 1.2
 ALT 1.61 15 ePn 13 20.90 1.4
 ARG 1.73 223 ePn 13 23.00 1.8

I2M 2.03 297 iPn 13 24.90 -0.8
 SMG 2.18 276 ePn 13 27.60 -0.1
 DST 2.23 341 iPn 13 28.60 0.2
 IZI 2.83 358 ePn 13 38.30 1.3
 GPA 2.84 11 ePn 13 38.20 1.1

KCT 2.90 341 iPn 13 39.30 1.4
 YLV 3.07 357 iPn 13 41.30 1.0
 PRK 3.13 305 ePn 13 41.50 0.4
 BNT 3.13 336 iPn 13 41.80 0.6
 EDC 3.14 335 iPn 13 40.50 -0.8

APE 3.25 264 ePn 13 44.00 1.1
 HRT 3.32 1 iPn 13 44.60 0.8

BBTK	3.42	46	iPd	13	47.00	1.6	BCAO	34.43	200	iPd	19	44.00	4.0X	2.828 S ± 12.3km	68.005 E ± 11.1km					
			iS	14	58.00			0.4s	2.00nm				4.4mb	DEPTH = 10.0km	(geophysicist)					
PPCY	3.44	139	eP	13	48.00	2.4	GBA	48.66	106	Pd	21	33.40	-3.0X	4.8mb (8 obs.)	4.9Msz (2 obs.)					
EZN	3.44	313	iPn	13	45.50	-0.1		0.5s	1.20nm				4.2mb	CARLSBERG RIDGE	(421)					
ISK	3.58	354	ePn	13	48.00	0.4		S.D. = 1.1	on 65 of 76 obs.											
CTT	3.75	347	iPn	13	49.80	-0.1														
NPS	3.90	236	ePn	13	53.00	0.9	% OCT 07, 1990 00h 58m 51.23 ± 1.96s													
CSS	3.95	129	eP	13	55.50	2.6	37.332 N ± 18.8km	29.659 E ± 9.3km												
			eSn	14	46.00		DEPTH = 10.0km	(geophysicist)												
DMK	4.54	343	ePn	14	00.10	-1.1	TURKEY													
RDO	4.80	321	ePn	14	05.00	0.2	MD 3.2 (ISK).													
VAM	4.81	246	ePn	14	08.00	3.0X														
KAS	5.05	39	eP	14	09.50	1.1	BCK	0.75	80	ePn	59	06.00	0.0	KOD	16.03	36	eP	02	18.50	4.1X
KDZ	5.24	324	iPc	14	11.00	-0.1	KHL	0.99	354	iPg	59	05.70	-4.4X	GBA	18.82	30	P	02	46.00	-2.9
			i	15	19.00				iSg	59	18.70		HYB	22.65	27	eP	03	30.00	0.5	
VLI	5.36	264	ePn	14	14.60	1.8	ALT	1.76	12	ePn	59	21.90	-0.1	QUE	32.84	358	eP	05	04.80	1.7
JMB	5.47	336	eP	14	15.00	0.8	IZM	2.17	300	ePn	59	28.00	0.0	DMN	34.46	27	P	05	18.00	0.8
			e	15	57.00		DST	2.41	341	ePn	59	24.00	-7.4X	PKI	34.56	28	P	05	18.40	0.2
DIM	5.51	327	iP	14	15.00	0.2	IZI	3.00	357	ePn	59	40.00	0.2	GKN	34.58	26	P	05	18.60	0.4
RZN	5.62	320	iPc	14	16.00	-0.6	YLV	3.24	356	ePn	59	43.00	-0.1	KKN	34.69	28	P	05	19.60	0.4
			iS	15	20.00		S.D. = 0.2	on 5 of 7 obs.					GUN	35.07	28	P	05	23.10	0.5	
PLD	5.93	322	eP	14	21.00	0.2							CHG	37.27	54	eP	05	42.00	1.1	
			iSg	15	27.00									1.0s	15.50nm				4.7mb	
MMB	6.09	314	iPd	14	22.00	-1.1	OCT 07, 1990 01h 55m 30.29 ± 0.34s						CHTO	37.27	54	eP	05	41.50	0.6	
			eS	15	27.00		40.678 N ± 3.9km	21.690 E ± 3.0km						1.1s	11.19nm				4.5mb	
ITM	6.10	269	ePn	14	27.00	3.7X	DEPTH = 5.0km	(geophysicist)					MA10	39.73	349	iPc	06	02.30	1.0	
EVR	6.28	285	ePn	14	27.00	1.2	GREECE						SLR	44.43	235	iPc	06	46.50	6.4X	
ADI	6.39	132	eP	14	26.50	-0.8	ML 3.2 (THE), 2.7 (TTG), MD 3.3							1.3s	57.69nm				5.3mb	
PGB	6.53	322	iPd	14	28.00	-1.3	(ATH).						CD2	47.81	43	eP	07	06.00	-0.6	
			iS	15	41.00								WMO	49.69	19	P	07	21.00	0.0	
PVL	6.56	332	ePd	14	29.00	-0.7	FNA	0.26	294	iPc	55	33.70	-1.9	BCAO	49.95	278	iPc	07	24.00	0.6
			iS	15	46.00				eS	55	36.60			0.7s	7.00nm				4.7mb	
KKB	6.64	313	iP	14	30.00	-0.8	KZN	0.38	171	ePg	55	37.00	-0.9	LZH	51.16	38	eP	07	35.00	2.5
			iS	15	40.00		GRG	0.61	62	ePd	55	42.20	-0.3		2.0s	40.00nm				5.0mb
ZNT	6.90	138	eP	14	32.50	-2.0			eS	55	52.88		Z	20s	0.58um				4.6Msz	
			eS	15	23.00		KBN	0.67	266	iPg	55	41.50	-2.2	GTA	51.20	32	eP	07	31.00	-0.8
SHMJ	6.96	131	Pd	14	34.80	-0.5	OHR	0.80	303	iPg	55	43.00	-2.6		24s	1.40um				4.9MszX
VTS	7.05	318	eP	14	37.00	0.3			iSg	55	55.40		XAN	53.17	43	P	07	46.00	-1.5	
BURJ	7.33	134	Pd	14	41.40	0.8	LIT	0.84	133	iPd	55	45.84	-1.2	VR1	60.70	328	ePc	08	40.00	-0.7
SKO	7.69	308	iP	14	45.00	-0.6			eS	55	59.88		MLR	60.87	327	eP	08	40.00	-2.0	
OHR	7.70	301	eP	14	41.20	-4.5X	THE	0.97	92	ePc	55	48.72	-0.5	BJI	61.32	41	eP	08	44.50	-0.5
HLW	7.76	169	ePc	14	45.00	-1.5			eS	56	05.44			1.5s	30.00nm				5.2mb	
			eS	16	07.50		KNT	1.04	62	ePd	55	49.92	-0.4	ASPA	66.82	114	eP	09	21.00	-0.4
MKT	8.00	143	eP	14	48.00	-1.9			eS	56	05.28			1.3s	11.90nm				4.9mb	
			eS	16	05.00		SOH	1.27	83	ePc	55	55.04	0.7	WB5	66.83	110	eP	09	20.70	-0.8
MLR	8.44	342	ePd	14	55.50	-0.5			eS	56	15.64		CLL	71.25	327	eP	09	47.00	-1.2	
CMP	8.47	338	ePd	14	53.00	-3.5X	SKO	1.31	352	iPg	55	53.40	-1.5	QIS	71.79	111	eP	09	51.20	-0.8
VR1	8.63	347	ePd	14	58.00	-0.6	BERA	1.32	272	ePn	55	54.50	-0.7	HFS	75.57	335	eP	10	12.00	-1.2
MBH	8.89	149	eP	14	59.50	-2.6			eS	56	19.48			0.7s	2.10nm				4.3mb	
SOI	10.72	277	P	15	28.00	0.7	TPE	1.34	254	ePn	55	56.00	0.6	TUL	143.83	337	ePKP	10	08.70	4.2X
SGO	11.51	290	P	15	38.50	0.4	PLC	1.37	102	ePb	55	56.00	-0.1		1.2s	5.90nm				
TAB	13.27	82	eP	16	10.00	0.2X	SRS	1.51	72	ePd	55	57.88	-0.1	MEO	145.85	340	iPKPc	10	08.70	0.7
KHC	16.41	320	eP	16	47.80	5.3X			eS	56	19.48		CLC	146.77	8	ePKP	10	11.00	1.5	
BRG	17.40	325	i(P)	16	57.80	3.0X	SRN	1.52	239	ePn	55	59.60	1.5	GSC	147.38	7	ePKP	10	14.00	3.5X
	1.0s	10.00nm			3.9mb		TIR	1.53	296	ePn	55	58.50	0.2	ALO	147.64	351	ePKP	10	12.00	0.9
LPG	18.83	302	eP	17	16.70	3.9X	IGT	1.55	223	ePd	55	57.96	-0.6		Z	18s	0.34um			5.2Msz
	0.7s	6.60nm			4.0mb		KKB	1.59	41	iPd	55	59.00	-0.1	SBB	147.84	9	ePKP	10	14.00	2.7X
LPL	18.84	302	eP	17	16.50	3.5X			iS	56	22.00			S.D. = 1.2	on 28 of 33 obs.					
	0.9s	8.20nm			3.9mb		KKS	1.70	326	ePn	56	02.00	1.4		OCT 07, 1990 02h 09m 43.98 ± 0.42s					
CDF	19.56	311	eP	17	21.10	-0.1	AGG	1.73	163	ePd	56	02.04	0.9		40.723 N ± 5.2km	21.642 E ± 3.3km				
	0.7s	5.50nm			4.0mb		KEK	1.74	237	ePb	56	03.00	1.7		DEPTH = 5.0km	(geophysicist)				
BSF	19.61	309	eP	17	22.10	0.3			eS	56	28.52			GREECE						
HAU	19.95	309	eP	17	25.00	-0.3	OUR	1.78	100	ePc	56	02.96	1.1		MD 3.1 (ATH), ML 2.0 (THE).					
	1.0s	14.00nm			4.2mb				eS	56	29.44		FNA	0.21	287	iPc	09	47.29	-1.0	
SMF	21.10	304	eP	17	36.70	-0.5	MMB	1.79	59	iPc	56	02.00	-0.1			eS	09	49.72		
	0.9s	12.30nm			4.3mb				eS	56	27.00		KZN	0.43	167	ePg	09	51.00	-1.6	
LBF	21.11	305	eP	17	38.10	0.8	BCI	2.08	325	ePn	56	07.50	1.3	GRG	0.62	68	ePd	09	55.84	-0.6
LOR	21.27	305	eP	17	39.20	0.3	SDA	2.12	310	ePn	56	08.60	1.7			eS	10	05.28		
	0.7s	2.75nm			3.8mb		VTS	2.23	30	eP	56	09.00	0.5	KBN	0.64	261	ePn	09	55.30	-1.4
	20s	0.00um			3.1Msz		RZN	2.50	65	eP	56	12.00	-0.4	OHR	0.75	302	iPg	09	57.40	-1.5
SSF	21.44	305	eP	17	42.10	1.5			iS	56	58.00				iSg	10	09.10			
	0.9s	16.40nm			4.5mb		TTG	2.53	315	ePn	56	13.50	0.9	LIT	0.90	134	ePd	09	59.84	-1.8
AVF	21.46	304	eP	17	40.10	-0.7			eSn	56	46.00		THE	1.01	95	ePc	10	03.44	-0.1	
	1.1s	12.20nm			4.2mb		PGB	2.64	44	eP	56	16.00	1.7			iS	10	19.00		
MFF	23.75	302	eP	18	03.90	0.5			eS	56	57.00		KNT	1.05	65	ePd	10	03.76	-0.5	
	0.9s	19.65nm			4.6mb		VLS	2.64	199	ePn	56	14.00	-0.3			eS	10	21.80		
LDF	24.22	307	eP	18	06.80	-1.1	PLD	2.68	57	eP	56	26.00	11.2X	BERA	1.29	270	ePn	10	09.70	1.4
	0.9s	9.85nm			4.4mb		RDO	2.95	80	ePb	56	27.00	8.3X	SOH	1.30	85	ePc	10	08.64	0.0
FLN	24.49	307	eP	18	09.40	-1.1	KDZ	2.98	70	iP	56	17.00	-2.1			eS	10	28.64		
	0.9s	19.65nm			4.7mb		ITM	3.50	177	ePb	56	29.00	2.5X	TPE	1.32	252	ePn	10	08.50	-0.3
	21s	0.05um			3.0Msz		PVL	3.72	46	eP	56	38.00	8.4X	PLG	1.42	104	ePb	10	10.00	-0.5
GRR	24.64	306	eP	18	10.80	-1.1			eS	57	29.00		TIR	1.48	295	ePn	10	12.70	1.4	
	0.9s	14.75nm			4.6mb		VLI	4.07	166	ePn	56	35.00	0.4							

07d 02h

MMB 1.80 61 eS 10 46.48
 10 16.00 0.1
 eS 10 41.00
 EVR 1.81 176 ePn 10 17.00 0.9
 OUR 1.82 102 ePc 10 17.56 1.3
 eS 10 46.32
 BCI 2.02 325 ePn 10 22.00 2.9X
 SDA 2.07 309 ePn 10 25.30 5.6X
 VTS 2.21 32 eP 10 22.00 0.1
 RZN 2.51 66 eP 10 27.00 0.7
 eS 11 15.00
 PGB 2.63 45 eP 10 36.00 8.1X
 IS 11 17.00
 KDZ 3.00 71 iP 10 27.00 -6.0X
 S.D. = 1.1 on 21 of 27 obs.

* OCT 07, 1990 02h 22m 09.24 ± 1.47s
 44.565 N ± 10.9km 113.825 W ± 10.0km
 DEPTH = 10.0km (geophysicist)
 EASTERN IDAHO (457)
 ML 3.4 (BUT).

MCMT 0.74 69 iPd 22 25.00 1.0
 LTMT 1.23 91 ePd 22 32.60 0.3
 BGMT 1.43 62 ePn 22 35.90 0.4
 HBMT 1.50 35 iPnd 22 36.00 -0.5
 LRM 1.59 37 iPnd 22 37.50 -0.2
 BUT 1.70 31 ePq 22 42.60 3.3X
 ISn 23 05.50
 ISg 23 09.10
 MEMT 2.27 62 ePn 22 47.70 0.1
 SXM 2.43 48 ePn 22 49.70 -0.1
 HRY 2.56 32 ePn 22 50.60 -1.0
 BW06 3.58 118 eP 23 05.50 -0.6
 NEW 4.34 330 eP 23 17.50 0.7
 S.D. = 0.7 on 10 of 11 obs.

OCT 07, 1990 02h 53m 28.13 ± 1.00s
 18.850 N ± 8.1km 62.598 W ± 7.1km
 DEPTH = 43.6 ± 9.6 km
 4.5mb (7 obs.) 4.4Msz (2 obs.)
 LEEWARD ISLANDS (92)

NEV 1.70 179 eP 53 57.70 1.8
 S 54 25.00
 BPA 1.93 158 eP 54 00.00 0.9
 S 54 30.00
 SEG 2.65 157 eP 54 08.90 -0.4
 DOG 2.95 161 eP 54 13.52 -0.2
 LPR 3.15 261 P 54 15.50 -1.0
 CSB 3.42 261 P 54 19.80 -0.6
 SJG 3.45 258 iP 54 20.80 0.0
 BBL 3.48 162 eP 54 20.80 -0.4
 PORP 3.91 259 P 54 27.00 -0.3
 MCP 4.34 260 P 54 33.40 0.0
 SLB 5.21 163 eP 54 46.53 0.8
 SVV 5.66 166 eP 54 51.08 -0.9
 SVB 5.69 167 eP 54 52.43 -0.1
 UPA 19.13 241 eP- 57 52.00 1.4
 HBF 21.23 315 P 58 20.00 7.5X
 SGS 21.47 315 P 58 23.50 8.5X
 LHS 22.46 317 P 58 37.00 12.2X
 JSC 22.63 316 P 58 38.00 11.6X
 TKL 25.11 316 P 59 13.50 23.1X
 TUL 33.81 307 eP 00 08.50 0.2
 1.0s 7.00nm 4.5mb
 Z 18s 0.48um 4.3Msz

SIO 34.14 306 e(P) 00 10.90 -0.3
 SIV 34.65 177 P 00 14.00 -1.7
 ZOBO 35.32 189 P 00 21.00 -1.0
 Z 20s 0.91um 4.5Msz

LPB 35.57 189 P 00 24.00 0.0
 Z 16s 2.02um 5.0MszX
 LR 08 18.00
 CNCB 35.83 189 P 00 26.70 0.4
 ALO 41.92 302 ePc 01 17.00 0.5
 1.0s 5.50nm 4.2mb

ANMO 41.92 302 P 01 17.50 1.0
 0.7s 3.21nm 4.2mb
 PPD 42.10 164 eP 01 21.80 4.0X
 e 01 31.30
 BW06 46.11 312 P 01 50.00 -0.2
 1.0s 7.29nm 4.6mb

DAU 46.76 308 P 01 56.00 0.5
 DUC 47.88 307 P 02 04.50 0.4

LRM 48.96 315 eP 02 13.60 1.1
 SES 49.55 321 eP 02 17.00 0.3
 NEW 52.68 317 P 02 40.00 -0.5
 0.8s 9.38nm 4.8mb
 LON 55.49 314 P 02 58.00 -3.1X
 YKA 56.28 334 eP 03 04.30 -2.1
 0.9s 5.70nm 4.6mb
 MBC 64.15 347 eP 04 01.00 1.0
 INK 65.59 337 eP 04 09.00 -0.3
 BCAO 80.20 89 iPd 05 36.10 -0.1
 0.5s 3.00nm 4.5mb

S.D. = 0.9 on 32 of 39 obs.
 & OCT 07, 1990 02h 57m 44.22s
 59.870 N 153.322 W
 DEPTH = 124.5km
 SOUTHERN ALASKA (2)
 <AGS-P>.

OPT 0.22 168 iP 58 01.05 0.9
 eS 58 13.93
 PDB 0.45 260 iP 58 01.61 -1.0
 eS 58 15.31
 AUH 0.51 187 eP 58 02.27 -0.8
 AUE 0.51 183 iP 58 02.12 -0.8
 iS 58 16.04
 AUI 0.54 186 iP 58 02.24 -0.9
 RSO 0.66 25 eP 58 03.46 -0.8
 iS 58 18.70
 RDT 0.84 33 iP 58 04.69 -0.9
 iS 58 20.41
 MCNL 0.86 217 eP 58 04.39 -1.2
 eS 58 20.37
 HOM 0.88 103 iP 58 05.09 -0.6
 eS 58 21.51
 XLV 0.91 116 eP 58 05.00 -1.1
 CDD 0.96 190 iP 58 05.30 -1.3
 eS 58 21.43

NNL 1.03 80 iP 58 07.41 0.2
 eS 58 26.18
 CNPM 1.11 107 iP 58 06.89 -1.2
 eS 58 24.01

CKL 1.42 20 iP 58 10.79 -0.7
 iS 58 31.79
 SPU 1.46 25 iP 58 10.95 -0.9
 iS 58 32.41

BGL 1.47 18 iP 58 11.59 -0.5
 CRP 1.52 22 iP 58 12.07 -0.6
 CGLM 1.58 24 iP 58 12.58 -0.8
 NCG 1.64 20 eP 58 13.49 -0.6
 SLKM 1.68 66 eP 58 12.89 -1.5

SEW 1.96 81 eP 58 16.30 -1.5
 SUA 2.04 37 eP 58 17.85 -1.2
 SKT 2.29 22 eP 58 20.73 -1.3
 PMS 2.31 52 eP 58 20.84 -1.5
 PWA 2.46 42 eP 58 22.36 -1.8

PLRM 2.69 48 eP 58 25.06 -2.1
 eS 58 56.74
 PMR 2.69 48 eP 58 25.40 -1.7
 KNIM 2.84 78 eP 58 26.48 -2.7
 MTU 2.86 85 eP 58 27.91 -1.5
 GHO 2.88 47 eP 58 27.06 -2.7

iS 59 00.94
 CUT 2.94 29 eP 58 28.60 -1.9
 SML 3.12 49 eP 58 30.10 -2.9
 GLI 3.25 69 eP 58 31.83 -2.9
 iS 59 08.81

VZW 3.56 67 eP 58 35.91 -2.9
 VLZ 3.68 67 eP 58 37.48 -2.9
 KLU 3.99 63 iP 58 41.65 -3.0
 TOA 4.14 54 eP 58 44.60 -2.1
 GLB 4.94 67 eP 58 54.55 -2.9

WRH 5.23 26 eP 58 58.28 -3.0
 CCB 5.44 26 iP 59 00.89 -3.3
 HDA 5.44 31 eP 59 01.49 -2.7
 BALM 5.56 73 eP 59 03.66 -2.3
 GLM 5.83 26 eP 59 06.56 -3.0

43 obs. associated
 OCT 07, 1990 03h 58m 27.06 ± 1.59s
 43.635 N ± 12.1km 7.288 E ± 11.8km
 DEPTH = 10.0km (geophysicist)
 NEAR SOUTH COAST OF FRANCE (379)
 ML 2.1 (LDG).

SBF 0.25 25 Pg 58 32.80 0.4
 Sg 58 36.40

AURF 0.25 6 Pg 58 32.49 0.0
 Sg 58 35.98
 CALN 0.31 292 Pg 58 33.76 0.1
 Sg 58 37.72
 AUTN 0.37 16 Pg 58 34.44 -0.4
 Sg 58 39.62
 FRF 0.47 261 Pg 58 36.70 0.1
 Sg 58 43.10
 LMR 0.64 242 Pg 58 40.00 0.1
 Sg 58 49.20
 LRG 0.70 255 Pg 58 40.60 -0.2
 Sg 58 49.60
 S.D. = 0.3 on 7 of 7 obs.

* OCT 07, 1990 04h 45m 54.68 ± 0.41s
 28.848 S ± 12.9km 177.000 W ± 9.4km
 DEPTH = 60.0km (geophysicist)
 5.2mb (11 obs.)

KERMADEC ISLANDS REGION (177)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 24C
 Centroid Location:
 Origin Time 04:45:56.4 0.9
 Lat 28.97S 0.10 Lon 176.58W 0.07
 Dep 15.0 FIX Half-duration 1.8
 Moment Tensor: Scale 10**16 Nm
 Mrr= 8.47 0.47 Mtt= 0.21 0.60
 Mff=-8.67 0.62 Mrt= 4.04 1.50
 Mrf= 9.54 1.88 Mtf=-1.87 0.51

Principal Axes:
 T Vol= 13.39 Plg=64 Azm=301
 N 0.36 6 198
 P -13.75 25 105
 Best Double Couple: Mo=1.4*10**17
 NP1: Strike=182 Dip=21 Slip= 72
 NP2: 20 70 97

RAO 0.90 243 P 45 12.00 -59.5X
 DZM 16.40 291 iPc 49 49.00 6.6X
 BRS 26.67 266 iPd 51 33.00 3.2X
 CNB 29.13 249 eP 51 53.00 0.9
 CTA 34.45 276 iPc 52 39.90 1.1
 0.9s 42.02nm 5.4mb

OIS 40.10 272 eP 53 27.30 1.1
 e 55 10.80
 ASPA 44.09 265 eP 53 57.70 -1.1
 0.9s 22.50nm 4.9mb
 Z 18s 4.25um 5.4Msz

WB5 44.94 270 eP 54 05.00 -0.6
 e 55 47.60
 SBA 49.65 184 eP 54 42.80 1.2
 GUA 55.95 314 eP 55 29.00 -0.2
 0.7s 43.84nm 5.6mb

GUMO 56.02 314 eP 55 28.00 -1.7
 MBL 57.19 262 eP 55 36.00 -2.1
 0.7s 20.00nm 5.3mb

MRWA 57.81 252 eP 55 40.40 -1.9
 0.8s 11.00nm 5.0mb
 NANU 60.41 259 eP 55 58.90 -1.4
 0.5s 11.00nm 5.2mb

SPA 61.31 180 eP 56 06.30 0.1
 1.0s 20.50nm 5.2mb
 MAW 74.06 200 e(P) 57 25.00 -0.5
 MAT 77.48 324 eP 57 46.00 0.8
 1.7s 34.62nm 5.1mb

SYP 82.91 44 eP 58 19.00 4.6X
 BAR 83.78 47 eP 58 03.00 -15.7X
 PLM 84.09 47 eP 58 20.00 -0.5
 RVR 84.18 46 eP 58 23.00 2.3

SBB 84.35 45 eP 58 20.00 -1.6
 ISA 84.58 44 eP 58 23.00 0.2
 TPC 85.09 47 eP 58 25.00 -0.3
 GLA 85.22 48 eP 58 26.00 0.1
 CLC 85.22 45 eP 58 25.00 -0.9

GSC 85.38 45 eP 58 27.00 0.2
 TNP 86.93 43 P 58 34.00 -0.5
 1.0s 8.13nm 4.9mb
 CN2 89.44 322 eP 58 46.60 0.6
 RMW 90.73 34 P 58 51.00 -1.1

GYA 91.54 299 P 58 58.60 2.3
 ALO 91.93 51 eP 58 56.80 -1.2
 1.8s 34.09nm 5.5mb
 Z 18s 0.60um 5.1Msz
 ANMO 91.93 51 P 58 57.00 -1.0

BJI 92.44 315 eP 59 01.50 1.6
 2.0s 80.00nm 5.8mb
 Z 16s 0.60um 5.1MszX
 KMI 93.91 296 Pc 59 11.00 3.7X
 pP 59 28.50 61kmX
 SUF 142.91 343 ePKP 05 24.00 1.6
 TAB 142.98 296 ePKP 05 20.00 -3.5X
 NUR 145.14 341 ePKP 05 25.00 -1.2
 NB2 147.34 353 PKP 05 30.00 0.9
 1.2s 17.40nm
 UPP 147.43 346 iPKP 05 31.60 1.6
 HFS 147.89 350 ePKP 05 32.00 1.3
 0.6s 5.30nm
 BCAO 151.59 214 iPKPc 05 37.50 -0.4
 0.6s 8.00nm
 KAS 152.05 305 ePKP 05 46.50 8.7X
 MBH 152.23 280 ePKP 05 45.00 6.7X
 NOH 152.24 282 ePKP 05 46.00 7.6X
 KHC 158.18 341 ePKP 05 51.40 5.8X
 e 06 23.40
 S.D. = 1.2 on 35 of 46 obs.

* OCT 07, 1990 05h 29m 33.57± 2.13s
 29.217 S ± 16.0km 176.713 W ± 12.5km
 DEPTH = 53.3 ± 18.2 km
 5.0mb (6 obs.) 5.0Msz (1 obs.)
 KERMADEC ISLANDS REGION (177)

RAO 1.05 268 P 29 53.00 0.7
 MRW 13.88 288 eP 32 48.00 -1.0
 eS 35 10.00
 DZM 16.76 291 iPd 33 30.00 3.7X
 BRS 26.89 266 iP 35 12.50 1.0
 CTA 34.74 277 iPd 36 21.20 0.4
 1.1s 41.77nm 5.3mb
 ASPA 44.31 265 iPc 37 38.00 -1.4
 0.6s 16.90nm 5.0mb
 Z 18s 1.76um 5.0Msz
 iPcP 39 36.70
 WB5 45.19 270 eP 37 46.00 -1.2
 MBL 57.39 262 eP 39 17.00 -2.1
 0.3s 2.00nm 4.7mb
 MAW 73.80 200 iP 41 06.00 2.3
 MAT 77.92 324 (P) 41 26.00 -1.4
 1.6s 33.33nm 5.1mb
 PLM 84.16 47 eP 42 02.00 1.5
 SBB 84.43 45 eP 42 02.00 0.3
 ISA 84.67 44 eP 42 03.00 0.1
 TPC 85.16 47 eP 42 19.00 13.6X
 CLC 85.31 44 eP 42 06.00 -0.1
 GSC 85.46 45 eP 42 20.00 13.1X
 TNP 87.02 43 P 42 14.00 -0.6
 1.0s 8.33nm 4.9mb
 MDJ 88.30 325 eP 42 24.00 3.7X
 CN2 89.89 322 eP 42 27.40 -0.4
 RMW 90.90 34 P 42 31.30 -1.2
 ALQ 91.96 51 eP 42 37.00 -0.9
 1.5s 13.89nm 5.2mb
 ANMO 91.97 51 P 42 37.00 -0.9
 BJI 92.87 315 eP 42 42.50 0.9
 TIY 93.92 311 eP 42 47.00 0.3
 KMI 94.29 296 eP 42 51.00 2.2
 XAN 94.30 307 eP 42 49.20 0.8
 SUF 143.34 343 ePKP 49 05.00 2.1X
 NUR 145.57 341 ePKP 49 06.00 -0.7
 0.9s 30.40nm
 i 49 16.80
 NB2 147.74 353 PKP 49 12.40 2.1X
 1.4s 24.10nm
 UPP 147.85 346 ePKP 49 13.00 2.6X
 SLL 148.02 351 ePKP 49 12.30 1.6
 0.4s 1.40nm
 BCAO 151.43 213 iPKPd 49 25.00 7.7X
 0.6s 7.00nm
 JVI 152.31 284 ePKP 49 26.00 7.9X
 PRNI 152.50 280 ePKP 49 27.00 8.5X
 BRG 156.93 343 ePKP 49 37.50 13.7X
 1.5s 13.00nm
 S.D. = 1.3 on 24 of 35 obs.

% OCT 07, 1990 06h 45m 49.93± 0.55s
 43.085 N ± 5.1km 12.434 E ± 5.7km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)

ASS 0.37 153 P 45 57.40 -0.2
 eSg 46 03.00

ARV 0.38 76 P 45 57.40 -0.4
 eSg 46 03.30
 CRE 0.42 303 P 45 58.30 -0.2
 eSg 46 05.30
 RSM 0.52 1 P 46 01.20 0.7
 eSg 46 07.60
 SFI 0.67 321 P 46 02.70 -0.5
 eSg 46 12.50
 PGD 0.70 313 P 46 03.80 -0.1
 eSg 46 14.30
 MNS 1.04 170 P 46 10.00 0.5
 eSn 46 25.00
 BDI 1.48 297 P 46 16.80 0.1
 eSn 46 36.00
 S.D. = 0.5 on 8 of 8 obs.

OCT 07, 1990 07h 15m 44.56± 1.20s
 18.922 N ± 4.7km 62.475 W ± 4.1km
 DEPTH = 31.5 ± 9.5 km
 4.7mb (22 obs.) 4.9Msz (6 obs.)
 LEEWARD ISLANDS (92)

NEV 1.78 183 eP 16 15.70 2.1
 S 16 40.50
 BPA 1.96 162 eP 16 17.00 0.8
 S 16 43.40
 DOG 2.99 164 eP 16 32.01 1.1
 LPR 3.28 260 P 16 34.00 -1.0
 BBL 3.51 164 eP 16 39.40 1.0
 CSB 3.55 260 P 16 38.00 -0.9
 SJG 3.58 258 iP 16 39.00 -0.3
 PORP 4.04 258 P 16 45.00 -0.9
 MGP 4.47 259 P 16 51.00 -1.0
 SLB 5.25 165 eP 17 03.22 0.2
 SVV 5.70 168 eP 17 09.22 -0.1
 SVB 5.74 168 eP 17 10.17 0.3
 TRN 8.29 173 eP 17 47.75 2.1
 CUM 8.57 191 iP 17 45.50 -3.9X
 LLAV 9.38 207 eP 17 59.40 -1.4
 OLLA 9.79 206 eP 18 05.30 -1.2
 GUAC 9.84 209 eP 18 05.10 -2.1
 eS 19 53.10
 PLAV 10.23 209 eP 18 12.00 -0.6
 TOV 11.52 219 eP 18 33.20 3.2X
 UPA 19.26 241 eP+ 20 08.50 -1.0
 SGS 21.50 315 P 20 30.00 -2.9
 LMS 22.49 317 P 20 43.00 0.3
 CBN 23.19 329 eP 20 51.00 1.6
 BLA 24.06 323 P 20 59.00 0.9
 TKL 25.13 316 P 21 06.00 -2.4
 TUL 33.86 307 eP 22 26.50 0.0
 1.2s 12.70nm 4.7mb
 SIV 34.72 178 P 22 33.00 -1.0
 SOB1 35.13 141 (P) 22 50.00 12.4X
 ZOBO 35.41 189 P 22 39.00 -1.5
 Z 18s 2.87um 5.1Msz
 S 28 22.00
 LR 34 32.00
 CAI 35.54 133 eP 22 44.30 3.3X
 MEO 35.66 304 iPd 22 41.80 -0.1
 LPB 35.66 189 P 22 42.00 -0.5
 Z 16s 3.70um 5.2MszX
 LR 34 36.00
 CNCB 35.92 189 P 22 44.00 -0.8
 ALO 41.98 301 ePc 23 35.20 0.5
 1.0s 9.75nm 4.5mb
 Z 18s 0.86um 4.7Msz
 e 23 45.00
 ANMO 41.98 301 P 23 35.70 1.0
 0.9s 6.83nm 4.4mb
 PPD 42.14 164 eP 23 37.60 1.7
 e 23 49.30
 GOL 42.26 309 P 23 37.00 0.0
 1.0s 5.00nm 4.2mb
 BW06 46.15 312 P 24 08.00 -0.3
 1.0s 20.83nm 5.0mb
 DAU 46.81 308 P 24 14.50 0.9
 DUG 47.93 307 P 24 23.00 0.7
 GLA 48.66 298 eP 24 29.00 1.2
 LRM 48.99 315 ePc 24 31.40 0.9
 TPC 49.74 299 eP 24 38.00 1.8
 BAR 50.19 297 eP 24 41.00 1.4
 PLM 50.37 298 eP 24 43.00 1.8
 GSC 50.44 300 eP 24 43.00 1.5
 RVR 50.83 299 eP 24 46.00 1.6
 TNP 51.01 304 P 24 46.00 0.0
 1.0s 5.00nm 4.4mb

SBB 51.24 300 eP 24 48.00 0.4
 ISA 51.82 301 eP 24 53.00 1.0
 EDM 51.92 324 eP 24 52.50 0.0
 NEW 52.71 317 P 24 58.00 -0.5
 1.0s 25.00nm 5.1mb
 PNT 54.56 318 eP 25 12.00 0.0
 YKA 56.27 334 eP 25 23.50 -0.6
 0.8s 14.00nm 5.0mb
 EPF 57.57 51 eP 25 33.60 -0.2
 0.9s 14.75nm 5.0mb
 LFF 58.00 48 eP 25 36.20 -0.5
 LPO 58.30 49 eP 25 37.90 -0.9
 0.7s 7.70nm 4.9mb
 RJF 58.58 48 eP 25 39.00 -1.0
 Z 19s 0.90um 4.9Msz
 LSF 58.67 47 eP 25 40.20 -1.2
 CAF 58.94 48 eP 25 42.50 -0.8
 TCF 59.14 47 eP 25 43.80 -0.9
 0.7s 3.30nm 4.6mb
 AVF 59.96 46 eP 25 49.10 -1.2
 0.8s 4.05nm 4.6mb
 SSF 60.09 46 eP 25 49.90 -1.2
 SMF 60.29 47 eP 25 51.30 -1.2
 0.9s 7.35nm 4.0mb
 LOR 60.34 46 eP 25 51.40 -1.5
 0.8s 4.05nm 4.6mb
 Z 19s 0.85um 4.9Msz
 LBF 60.41 46 eP 25 51.00 -1.6
 HAU 62.06 45 eP 26 03.40 -1.2
 Z 18s 0.77um 4.9Msz
 LPL 62.26 48 eP 26 05.70 -0.5
 0.7s 3.30nm 4.6mb
 LPG 62.27 48 eP 26 06.00 -0.3
 0.7s 3.85nm 4.6mb
 BSF 62.36 45 eP 26 05.00 -1.6
 CDF 62.70 45 eP 26 07.40 -1.5
 MBC 64.10 347 eP 26 18.50 1.0
 1.0s 6.00nm 4.7mb
 INK 65.57 337 eP 26 27.00 -0.1
 NB2 65.73 31 P 26 29.30 1.0
 1.2s 12.90nm 4.9mb
 CLL 66.43 42 eP 26 45.00 12.2X
 KHC 66.86 44 eP 26 38.10 2.3
 BRG 67.03 42 eP 26 36.70 0.0
 1.0s 10.00nm 4.9mb
 i 26 49.60
 PRU 67.45 43 ePd 26 40.20 0.8
 Z 18s 1.10um 5.1Msz
 E 18s 0.80um
 ZST 69.26 45 eP 26 40.50 -10.1X
 e 27 02.30
 KRA 70.91 43 eP 27 01.80 1.1
 e 27 13.50
 FBA 71.06 333 eP 27 01.70 0.4
 0.9s 8.33nm 4.6mb
 PMR 71.97 330 P 27 07.00 0.3
 KEV 72.23 21 eP 27 04.00 -4.2X
 NUR 72.33 31 eP 27 17.00 8.1X
 e 27 22.00
 SOD 72.37 24 iP 27 10.20 1.2
 SUF 72.75 29 eP 27 13.00 1.7
 OHR 72.85 52 eP 27 13.00 0.5
 IMA 73.37 335 iPd 27 15.00 0.7
 0.9s 7.81nm 4.7mb
 SVW 75.14 330 iPd 27 25.00 -0.3
 BCAO 80.08 89 iPd 27 54.50 1.0
 0.6s 7.00nm 4.8mb
 S.D. = 1.2 on 82 of 90 obs.

? OCT 07, 1990 07h 49m 31.47± 7.31s
 17.085 N ± 29.8km 60.520 W ± 51.8km
 DEPTH = 10.0km (geophysicist)
 LEEWARD ISLANDS (92)
 ML 2.7 (FDF).

SFG 1.05 218 eP 49 51.60 0.3
 BPA 1.28 268 eP 49 54.86 -0.4
 DOG 1.48 225 eP 49 58.12 -0.1
 S 50 14.70
 BBL 1.80 211 eP 50 02.60 -0.3
 NEV 1.96 272 eP 50 05.51 0.4
 S 50 25.00
 S.D. = 0.5 on 5 of 5 obs.

% OCT 07, 1990 08h 21m 24.52± 0.90s
 39.215 N ± 7.2km 27.790 E ± 8.4km

07d 08h

DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.4 (ISK).

DST 0.76 59 ePg 21 39.40 0.0
eSg 21 51.00
IZM 0.91 207 ePn 21 42.00 0.0
BNT 1.14 5 ePn 21 46.00 0.1
EZN 1.29 299 iPn 21 48.50 0.1
KGT 1.29 343 iPn 21 48.20 -0.2
S.D. = 0.2 on 5 of 5 obs.

* OCT 07, 1990 08h 43m 04.25 ± 2.64s
32.302 S ± 15.4km 69.733 W ± 15.4km
DEPTH = 155.7 ± 29.9 km
MENDOZA PROVINCE, ARGENTINA (139)

RTBS 0.68 21 e(P) 43 28.00 0.6
JACH 0.82 242 iPd 43 28.00 -0.6
iS 43 44.50
RTCV 1.11 67 iPd 43 30.10 -0.7
FCH 1.13 204 iPc 43 31.60 0.3
iS 43 50.00
RTCB 1.14 45 iP 43 31.00 -0.1
PEL 1.16 223 iP 43 31.00 -0.3
iS 43 49.00
ZON 1.17 50 iPc 43 32.00 0.6
eS 43 49.00
SAN 1.39 214 iPc 43 33.50 0.0
iS 43 53.00
RTLL 1.45 48 iPd 43 33.90 -0.2
PCH 1.47 206 iPc 43 34.50 0.1
iS 43 56.50
TACH 1.69 217 iPc 43 36.50 -0.1
iS 44 00.50
CHCH 1.80 205 iPc 43 38.40 0.5
iS 44 02.80
LCCH 1.94 232 iPd 43 39.70 0.3
LNV 2.17 220 iPc 43 41.50 -0.5
iS 44 08.40
S.D. = 0.5 on 14 of 14 obs.

* OCT 07, 1990 08h 43m 28.61 ± 0.88s
39.081 N ± 7.3km 27.640 E ± 9.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

IZM 0.74 204 ePg 43 43.20 0.0
eSg 43 55.00
DST 0.93 55 ePn 43 46.40 0.0
EZN 1.26 307 ePn 43 52.00 0.0
BNT 1.29 10 ePn 43 52.40 -0.1
KGT 1.39 349 iPn 43 54.20 0.2
S.D. = 0.1 on 5 of 5 obs.

* OCT 07, 1990 08h 47m 30.50s
46.320 N 75.190 W
DEPTH = 17.5km
SOUTHERN QUEBEC (447)
<OTT-P>. mblg 3.9 (OTT). Felt in
the Loc-du-Cerf area.

TRO 0.45 102 Pd 47 39.63 -0.1
S 47 46.01
GRO 0.54 302 Pc 47 40.70 -0.5
S 47 47.60
OTT 1.00 202 Pd 47 48.67 -0.2
S 48 01.49
WBO 1.32 183 Pd 47 54.28 0.2
S 48 11.63
MNT 1.37 126 Pd 47 54.89 0.2
S 48 13.31
CKO 1.60 259 Pc 47 58.25 0.1
S 48 19.29
HBVT 2.47 142 eP 48 11.00 0.5
BNH 3.26 121 eP 48 22.00 0.1
MIM 4.43 102 eP 48 38.00 -0.4
WVLY 4.55 213 eP 48 37.00 -3.1
CBM 4.91 80 eP 48 43.50 -1.7
TBR 5.22 172 eP 48 48.50 -1.2
ELF 5.27 237 P 48 49.60 -2.1
LDN 5.39 235 P 48 49.60 -2.4
PNJ 5.46 172 e(Pn) 48 56.10 3.1
GMTN 5.48 172 iP 48 52.20 -1.2
DLA 5.72 235 P 48 54.00 -2.7
BLA 9.90 205 eP 49 53.00 -2.0

SCH 10.04 29 P 49 51.50 -5.3
TKL 12.46 214 eP 50 27.00 -2.8
LHS 12.57 202 e(P) 50 31.50 0.2
21 obs. associated

? OCT 07, 1990 08h 57m 51.00 ± 5.54s
61.650 N ± 15.5km 2.901 E ± 46.1km
DEPTH = 10.0km (geophysicist)
NORWEGIAN SEA (642)
MD 2.6 (BER).

FOO 1.03 92 eP 58 05.32 -5.0X
eS 58 18.63
SUE 1.08 123 iP 58 11.99 0.8
iS 58 26.00
ASK 1.62 135 iP 58 19.90 0.3
eS 58 39.52
HYA 1.65 106 iP 58 20.50 0.4
eS 58 42.30
MOL 2.37 65 iP 58 31.15 0.6
ODD1 2.53 132 iP 58 32.60 -0.2
iS 59 02.51
BLS2 3.09 138 iP 58 40.51 -0.3
iS 59 14.81
NRA0 4.28 99 Pn 58 56.00 -1.6
Lg 00 11.00
S.D. = 1.0 on 7 of 8 obs.

? OCT 07, 1990 09h 02m 25.94 ± 1.06s
7.648 N ± 14.3km 126.991 E ± 23.9km
DEPTH = 33.0km (normal)
4.7mb (5 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

MTN 20.77 169 eP 07 07.50 0.7
WB5 28.30 165 eP 08 18.10 -0.7
ASPA 31.85 168 eP 08 50.60 0.3
0.3s 4.90nm 4.9mb
WARB 33.63 181 eP 09 06.00 0.3
0.3s 2.00nm 4.5mb
FORR 38.29 178 eP 09 45.00 -0.1
0.4s 17.00nm 5.2mb
COOL 38.72 188 eP 09 48.30 -0.5
KLB 40.00 192 eP 09 59.00 -0.5
MUN 40.73 194 eP 10 05.20 -0.2
NWA0 41.40 192 iPd 10 11.40 0.5
GBA 49.00 281 P 11 12.00 0.2
0.3s 0.80nm 4.2mb
SLL 94.72 333 eP 15 45.00 -0.1
0.6s 2.20nm 4.8mb
S.D. = 0.5 on 11 of 11 obs.

* OCT 07, 1990 09h 12m 43.99 ± 1.07s
43.634 N ± 8.3km 19.528 E ± 11.4km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.5 (TTG).

PLE 0.32 198 iPg 12 49.80 -0.9
iSg 12 56.30
IVA 0.81 160 ePg 12 59.50 -0.2
eSg 13 13.50
NKY 0.91 205 ePg 12 59.50 -1.9
eSg 13 13.60
BRY 1.03 225 ePg 13 00.50 -3.0X
eSg 13 15.00
PVY 1.09 162 ePg 13 06.50 2.0
eSg 13 25.00
TTG 1.22 189 ePg 13 06.40 -0.3
eSg 13 26.50
BEO 1.36 29 ePn 13 08.20 -0.8
eSg 13 30.20
HCY 1.41 213 ePg 13 10.00 0.4
eSg 13 32.20
BDV 1.44 201 ePg 13 10.50 0.3
eSg 13 33.50
HVAR 2.29 260 ePn 13 23.80 1.4
iSn 13 50.00
S.D. = 1.4 on 9 of 10 obs.

? OCT 07, 1990 09h 22m 00.52 ± 2.28s
25.734 S ± 7.6km 71.863 W ± 47.5km
DEPTH = 33.0km (normal)
OFF COAST OF NORTHERN CHILE (121)

RTLL 6.32 153 eP 23 32.50 -1.4
eS 24 36.00

RTCB 6.33 156 eP 23 33.80 -0.3
RTCV 6.77 155 e(P) 23 42.00 1.9
PEL 7.45 172 eP 23 59.00 9.2X
MDZ 7.59 160 eP 24 06.60 14.9X
LNV 8.20 177 eP 24 00.00 -0.2
CNCB 9.59 23 P 24 20.00 0.1
LPB 9.80 22 eP 24 40.00 17.3X
ZOB0 10.04 21 P 24 26.00 -0.1
SIV 13.98 48 P 25 09.00 -9.5X
S.D. = 1.4 on 6 of 10 obs.

* OCT 07, 1990 10h 08m 48.70s
37.508 N 118.878 W
DEPTH = 4.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 3.1 (BRK), 3.1 (PAS).

FRI 0.84 232 ePc 09 04.80 -0.6
iS 09 15.20
CMB 1.30 294 ePd 09 13.30 -0.2
iS 09 29.70
TNP 1.43 66 eP 09 16.10 0.4
PKEM 1.75 215 eP 09 21.50 1.5
ISA 1.87 170 iPc 09 23.70 1.9
LLA 1.88 242 ePd 09 23.00 1.1
iS 09 47.00
PRI 1.98 227 ePc 09 25.20 1.8
PHAM 2.07 217 eP 09 25.50 0.8
ARN 2.12 267 eP 09 26.50 1.1
SAO 2.18 251 iP 09 28.10 1.8
MHC 2.21 267 ePd 09 28.70 1.9
PRS 2.32 240 eP 09 29.70 1.5
BCH 2.51 203 eP 09 31.80 0.7
ABL 2.67 186 eP 09 34.50 1.1
BKS 2.69 279 eP 09 35.00 1.5
BRK 2.71 279 eP 09 34.90 1.1
16 obs. associated

* OCT 07, 1990 10h 09m 42.80s
37.510 N 118.990 W
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 3.0 (BRK).

FRI 0.77 228 iPc 09 56.80 -1.5
iS 10 07.20
CMB 1.22 296 iPc 10 04.90 -1.2
iS 10 21.30
TNP 1.52 67 eP 10 08.20 -2.6
LLA 1.80 241 iPd 10 15.30 0.6
iS 10 37.50
PRI 1.92 225 iPc 10 17.80 1.3
5 obs. associated

* OCT 07, 1990 10h 13m 32.12 ± 0.92s
39.099 N ± 7.7km 27.592 E ± 13.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

IZM 0.75 200 ePg 13 46.70 -0.1
DST 0.95 57 ePn 13 50.40 0.2
EDC 1.26 9 ePn 13 55.90 0.3
BNT 1.28 11 ePn 13 55.10 -0.8
KGT 1.37 351 iPn 13 57.60 0.4
S.D. = 0.7 on 5 of 5 obs.

* OCT 07, 1990 11h 05m 08.96 ± 0.48s
39.496 N ± 4.3km 3.787 W ± 5.7km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mblg 3.1 (MDD).

TOL 0.43 332 iPg 05 17.50 -0.3
eSg 05 23.60
GUD 1.18 346 iP 05 31.00 0.0
eS 05 46.80
EVIA 1.32 130 eP 05 33.64 0.3
eS 05 51.00
EBAN 1.33 180 eP 05 32.71 -0.8
eS 05 50.00
EPLA 1.86 289 eP 05 41.44 0.3
eS 06 04.50
ETOR 1.87 45 eP 05 41.59 0.2
eS 06 05.20
EHOR 2.03 215 eP 05 44.17 0.6
eS 06 09.10

ECHE 2.18 87 eP 05 45.94 0.1
 AFC 2.25 175 eP 05 46.94 0.0
 S.D. = 0.5 on 9 of 9 obs.

OCT 07, 1990 11h 32m 13.75±0.27s
 56.167 S ± 7.1km 27.008 W ± 7.6km
 DEPTH = 99.8km (3 depth phases)
 5.4mb (11 obs.)

SOUTH SANDWICH ISLANDS REGION (153)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 14S, 32C

Centroid Location:

Origin Time 11:32:17.6 0.4

Lat 56.265 0.05 Lon 26.47W 0.10

Dep 78.5 4.7 Half-duration 1.7

Moment Tensor: Scale 10**16 Nm

Mrr=-2.93 0.44 Mtt= 8.52 0.68

Mff=-5.59 0.61 Mrt=-5.51 0.43

Mrf= 5.72 0.40 Mtf= 3.82 0.68

Principal Axes:

T Val= 10.88 Plg=19 Azm=174

N 1.26 45 284

P -12.14 39 67

Best Double Couple: Mo=1.2*10**17

NP1: Strike=218 Dip=47 Slip=-164

NP2: 117 78 -44

SPA 34.01 180 iPc 38 48.90 -0.7
 0.8s 40.83nm 5.3mb

BMA 35.75 332 eP 39 06.10 1.6
 e 39 11.30 18kmX

VAO 36.24 328 eP 39 10.70 2.0

JFO 36.46 334 eP 39 11.90 1.3

CHCH 37.14 288 ePc 39 13.00 -3.2X

PCH 37.31 289 iPc 39 17.50 -0.1

LNV 37.53 287 eP 39 17.00 -2.3

RTCV 37.65 293 e(P) 39 20.00 -0.4

PEL 37.77 289 ePd 39 20.50 -0.9

RTLL 38.04 293 ePd 39 21.90 -1.8

RTCB 38.08 293 ePc 39 22.60 -1.5

PPD 38.54 322 iPc 39 28.90 1.0

i 39 31.60 9kmX

e 39 35.00

e 39 54.60

MAW 40.00 143 iPc 39 39.80 0.4

0.9s 27.00nm 5.1mb

BAO 43.51 330 iPc 40 10.20 1.3

SIV 47.73 313 iPc 40 41.50 -0.7

SOB1 48.10 341 iP 40 45.20 0.2

e 41 13.60 122kmX

e 41 33.50

SLR 49.82 76 iPd 40 57.00 -1.3

CNCB 50.00 305 P 41 01.00 0.8

e 48 06.00

CAI 50.16 347 eP 41 01.40 0.7

LPB 50.30 305 P 41 04.00 1.7

1.0s 140.00nm 5.9mb

e 48 09.00

ZOBO 50.54 305 iPc 41 04.30 0.0

Z 20s 0.20um 4.1msz

LR 54 20.00

ARE 51.95 301 eP 41 15.00 0.3

BUL 54.51 72 iPd 41 32.10 -1.3

1.1s 125.32nm 5.9mb

CIR 55.40 76 iPd 41 35.90 -3.7X

KRI 57.78 71 iPd 41 58.80 2.1

LIC 64.76 24 Pd 42 43.00 -0.3

0.6s 22.00nm 5.3mb

Z 20s 0.30um 4.5msz

KIC 64.96 25 Pd 42 44.20 -0.5

0.8s 23.50nm 5.2mb

TIC 65.17 24 Pd 42 45.60 -0.4

0.7s 25.00nm 5.3mb

LKO 67.85 23 Pd 43 00.18 -2.9

0.6s 22.00nm 5.3mb

BCAO 70.92 49 iPd 43 21.00 -0.8

0.8s 42.00nm 5.3mb

ic 43 47.30 103km

OLLA 73.74 319 eP 43 38.60 0.1

PLAV 73.86 318 iPd 43 39.50 0.1

GUAC 74.07 319 eP 43 40.80 0.3

LLAV 74.16 319 eP 43 41.00 0.1

FISA 75.83 317 iPc 43 50.20 -0.2

UPA 78.02 387 (P) 44 02.50 0.0
 LTZ 80.08 194 P 44 13.90 0.5
 THZ 80.99 195 eP 44 15.70 -2.5
 NWA0 86.18 150 iPc 44 48.30 3.7X
 BFD 86.60 172 eP 44 49.00 2.4

i 45 15.20 99km

MUN 86.78 149 eP 44 47.00 -0.6

KLB 87.58 150 eP 44 52.00 0.5

BAL 88.21 149 eP 44 54.00 -0.5

ADE 88.41 168 iPc 44 56.00 0.5

CAN 88.81 177 eP 44 58.80 1.4

COOL 89.15 153 eP 45 00.00 1.0

BWA 89.68 176 eP 45 02.00 0.5

FORR 90.77 159 iPd 45 07.10 0.6

0.4s 37.00nm 5.9mb

ASPA 98.85 162 eP 45 43.30 -0.3

0.7s 10.60nm 5.6mb

WB5 102.63 162 ePd 46 00.80 0.4

HFS 120.36 22 ePKP 50 50.60 -2.6X

0.6s 1.60nm

NB2 120.68 20 PKP 50 53.00 -0.9

0.7s 2.00nm

GKN 124.72 91 PKP 51 01.90 -1.0

0.4s 5.00nm

PKI 124.82 92 PKP 51 03.20 -0.1

0.6s 7.00nm

KKN 124.92 91 PKP 51 02.40 -0.9

0.4s 6.00nm

SOD 129.49 24 ePKP 51 10.00 -0.6

PNT 130.05 301 ePKP 51 13.00 0.8

YKA 136.32 318 ePKP 51 23.00 -0.7

0.4s 2.50nm

GTA 141.62 93 ePKP 51 35.20 0.9

MBG 144.13 336 ePKPc 51 35.90 -1.4

0.5s 9.00nm

INK 145.96 320 ePKP 51 41.00 0.4

0.7s 39.00nm

pP 52 05.00

NJ2 146.19 121 PKPd 51 44.00 1.9

SSE 146.49 125 ePKP 51 49.20 6.6X

TIY 147.35 107 PKPc 51 46.20 2.3X

8TO 148.10 101 ePKP 51 48.00 2.9X

HMC 149.12 102 ePKP 51 50.80 4.1X

TOA 149.29 306 iPKPd 51 52.40 6.2X

PMR 150.49 305 iPKPc 51 53.80 5.9X

FBA 150.67 312 iPKPd 51 53.30 5.2X

BJI 151.04 108 ePKP 51 55.00 5.6X

IMA 153.26 313 iPKPd 52 00.00 8.0X

SVW 153.40 302 ePKP 52 00.00 7.8X

TTA 153.92 306 ePKP 52 01.70 8.8X

S.D. = 1.2 on 58 of 73 obs.

% OCT 07, 1990 13h 09m 13.36±0.89s

39.062 N ± 7.0km 27.064 E ± 9.1km

DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.8 (ISK).

IZM 0.73 205 ePg 09 27.70 -0.1

eSg 09 41.20

DST 0.92 54 iPn 09 31.30 0.3

EZN 1.29 307 ePn 09 37.50 0.3

EDC 1.29 7 ePn 09 36.50 -0.8

BNT 1.31 9 ePn 09 38.00 0.5

KGT 1.42 349 iPn 09 39.00 -0.1

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

OCT 07, 1990 13h 10m 35.29±1.13s

20.348 N ± 5.2km 146.737 E ± 6.5km

DEPTH = 62.4 ± 10.2 km

4.9mb (14 obs.)

MARIANA ISLANDS REGION (215)

GUMO 6.96 195 eP 12 16.80 -0.1

0.6s 67.34nm 5.5mb

eS 13 36.60

PJG 6.96 195 eP 12 17.00 0.1

GUA 6.99 195 eP 12 17.50 0.1

0.7s 71.23nm 5.5mb

MAT 17.78 337 eP 14 15.00 -25.0X

eS 14 53.00

GYA 37.17 287 eP 17 42.20 0.0

8TO 37.17 311 eP 17 41.40 -0.7

LZH 40.57 302 eP 18 10.50 -0.1

1.5s 30.00nm 4.9mb

pP 18 16.00 19kmX

sP 18 20.50

WB5 41.77 198 eP 18 21.00 0.7
 GTA 44.35 306 eP 18 40.80 -0.5
 CHG 44.93 277 eP 18 46.20 0.1
 0.9s 12.60nm 4.7mb

CHTO 44.93 277 iPc 18 46.00 0.0

1.0s 17.00nm 4.8mb

BDT 45.18 274 eP 18 44.00 -3.9X

0.5s 29.90nm 5.4mb

ASPA 45.50 197 eP 18 49.80 -0.6

0.6s 6.90nm 4.7mb

MBL 48.93 214 eP 19 17.00 -0.2

0.4s 2.00nm 4.5mb

WARB 50.20 204 eP 19 27.00 0.1

0.5s 5.00nm 4.8mb

LSA 50.82 292 Pd 19 33.60 1.4

NANU 52.41 217 eP 19 44.10 0.4

WMO 53.99 310 P 19 55.50 0.2

GUN 55.57 290 P 20 07.80 0.4

0.5s 25.00nm 5.5mb

PKI 56.03 290 P 20 10.50 -0.1

0.8s 27.00nm 5.3mb

KKN 56.11 290 P 20 11.20 0.1

DMN 56.29 290 P 20 12.70 0.3

GKN 56.65 291 P 20 15.10 0.2

BAL 58.31 210 eP 20 25.50 -0.6

KLB 58.65 209 eP 20 28.00 -0.4

MUN 59.69 210 eP 20 36.00 0.4

HYB 64.17 280 ePc 21 06.50 0.5

GSA 66.22 276 Pd 21 17.90 -1.2

0.7s 3.00nm 4.4mb

INK 67.48 23 eP 21 26.00 -0.3

POO 68.21 282 eP 21 15.50 -16.3X

MYC 71.32 15 eP 21 50.00 0.3

YKA 76.08 28 eP 22 17.10 -0.5

0.6s 2.50nm 4.3mb

PNT 77.15 42 eP 22 24.00 0.1

ALO 91.48 52 eP 23 37.30 0.7

1.0s 2.00nm 4.5mb

ZOBO 146.69 89 PKP 30 15.00 3.6X

LPB 146.77 89 (PKP) 30 16.00 4.7X

CNCB 146.94 90 PKP 30 16.60 4.8X

S.D. = 0.5 on 31 of 37 obs.

% OCT 07, 1990 14h 25m 53.30±0.73s

41.173 N ± 8.1km 28.489 E ± 4.6km

DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.6 (ISK).

CTT 0.05 240 iPg 25 54.60 -0.9

ISK 0.44 104 iPg 26 01.90 -0.4

DMK 0.85 320 iPg 26 10.20 0.5

eSg 26 22.20

YLV 0.90 132 iPn 26 10.50 -0.2

BNT 0.92 208 ePn 26 12.10 1.2

HRT 0.96 111 iPn 26 11.90 0.3

MFT 0.

07d 14h

GBA	26.46	116 Pd	53	27.60	0.0
	0.8s	2.30nm		3.8mb	
GKN	28.03	81 P	53	42.30	0.3
KKN	28.62	81 P	53	47.80	0.4
PKI	28.76	81 P	53	48.60	-0.2
GUN	29.14	81 P	53	52.20	0.0
WMO	32.56	50 P	54	22.00	0.1
KRA	34.15	321 eP	54	36.50	1.0
KHC	37.48	317 eP	55	04.80	1.0
SQTA	38.36	313 iPd	55	11.60	0.3
	0.7s	14.50nm		4.9mb	
		i	55	13.70	
SBF	40.19	307 eP	55	26.30	-0.2
	0.7s	7.70nm		4.6mb	
GTA	40.64	60 iPd	55	31.40	1.1
	1.0s	30.00nm		5.0mb	
	20s	0.50um		4.4msz	
LPG	40.95	309 eP	55	32.10	-0.9
	0.7s	4.40nm		4.3mb	
LPL	40.97	309 eP	55	32.10	-1.0
	0.6s	3.15nm		4.2mb	
CDF	41.23	314 eP	55	34.20	-0.8
BSF	41.41	313 eP	55	35.60	-0.9
	0.7s	5.50nm		4.4mb	
HAU	41.74	313 eP	55	37.80	-1.3
HFS	42.53	332 eP	55	45.40	0.0
	0.8s	12.10nm		4.7mb	
CHTO	42.91	91 eP	55	47.10	-1.9
	1.3s	3.68nm		4.0mb	
LBF	43.11	311 eP	55	49.20	-1.2
SMF	43.15	310 eP	55	49.70	-0.9
	0.7s	4.95nm		4.4mb	
LOR	43.24	311 eP	55	50.80	-0.6
DOU	43.34	315 P	55	56.90	4.8X
	0.7s	8.90nm		4.6mb	
SOD	43.43	346 eP	55	54.00	1.4
SSF	43.44	311 eP	55	52.40	-0.6
	0.9s	6.55nm		4.4mb	
LZH	43.83	65 eP	55	56.50	0.0
	2.0s	40.00nm		4.9mb	
MAF	43.95	310 eP	55	56.80	-0.4
NB2	44.05	332 P	55	57.80	0.0
	0.8s	7.10nm		4.5mb	
CAF	44.15	308 eP	55	58.80	0.0
	0.7s	5.50nm		4.5mb	
TCF	44.21	310 eP	55	58.80	-0.5
	0.7s	3.30nm		4.3mb	
RJF	44.57	308 eP	56	02.40	0.2
	0.7s	5.50nm		4.5mb	
KIC	58.47	260 P	57	48.30	1.2
TIC	58.59	261 P	57	49.20	1.3
LIC	58.79	260 P	57	50.50	1.2
	0.6s	4.50nm		4.8mb	
CN2	59.56	53 eP	57	53.60	-0.6
MBC	76.85	358 eP	59	42.50	1.2
	1.0s	4.00nm		4.4mb	
BMC	117.77	295 ePKP	06	42.00	4.9X
	S.D. = 1.0	on 44 of 53 obs.			
* OCT 07, 1990 14h 58m 44.36s					
	63.610 N	149.710 W			
	DEPTH = 125.1km				
	CENTRAL ALASKA	(1)			
	<AGS-P>				
MCK	0.37	70 iP	59	02.38	-0.1
		eS	59	15.48	
RND	0.44	118 iP	59	02.48	-0.4
		eS	59	16.17	
HUR	0.64	177 eP	59	03.54	-0.5
		eS	59	18.34	
NEA	1.01	16 iP	59	06.47	-0.7
		eS	59	22.60	
WRH	1.12	39 iP	59	07.86	-0.5
		eS	59	25.08	
CUT	1.24	192 iP	59	08.85	-0.7
CCB	1.33	38 eP	59	09.98	-0.6
		eS	59	28.83	
HDA	1.45	55 eP	59	11.07	-0.9
FBA	1.54	32 iPd	59	12.40	-0.6
GLM	1.71	35 iP	59	14.47	-0.6
SKT	1.84	208 iP	59	15.14	-1.4
GHO	1.88	169 iP	59	16.58	-0.5
		eS	59	41.23	
SML	1.92	160 iP	59	16.71	-0.8
PWA	1.97	182 eP	59	17.71	-0.4
PLRM	2.04	172 eP	59	18.12	-0.9

PMR	2.04	172 eS	59	46.42	
		iPc	59	18.10	-0.9
SCM	2.09	147 eP	59	18.91	-0.9
SDG	2.19	118 eP	59	20.34	-0.6
SUA	2.21	193 eP	59	21.48	0.2
TOA	2.22	131 iPd	59	23.70	2.4
PMS	2.38	178 eP	59	22.40	-0.9
NCG	2.49	208 iP	59	23.49	-1.4
DOT	2.52	87 eP	59	24.39	-0.8
CGLM	2.55	206 eP	59	24.48	-1.1
BGL	2.66	209 eP	59	26.33	-0.8
SPU	2.67	205 eP	59	26.04	-1.1
CKL	2.71	208 eP	59	26.78	-1.0
KLU	2.76	139 eP	59	26.89	-1.4
VLZ	2.94	146 eP	59	28.69	-2.0
VZW	2.95	149 eP	59	29.13	-1.8
IMA	2.99	327 iPd	59	29.80	-1.7
GLI	3.00	155 eP	59	29.56	-1.9
SLKM	3.12	185 eP	59	32.06	-1.1
RDT	3.30	204 eP	59	34.79	-0.7
KNIM	3.40	163 eP	59	34.53	-2.3
RSD	3.47	206 eP	59	37.10	-0.8
GLB	3.49	126 eP	59	37.26	-0.8
SEW	3.52	178 eP	59	36.67	-1.7
NNL	3.66	193 eP	59	40.29	0.0
SVW	3.73	230 eP	59	39.50	-1.7
CNPM	4.16	191 eP	59	45.36	-1.7
OPT	4.31	204 eP	59	47.99	-1.1
PDB	4.39	211 eP	59	48.72	-1.3

43 obs. associated

OCT 07, 1990 15h 28m 02.16± 0.99s
 44.033 N ± 7.5km 7.704 E ± 7.1km
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)
 ML 2.5 (LDG).

AUTN	0.20	259 Pg	28	06.14	-0.6
SBF	0.26	229 Pg	28	08.10	0.4
		Sg	28	11.80	
AURF	0.31	242 Pg	28	08.61	0.0
		Sg	28	13.47	
MVIF	0.42	251 Pg	28	10.02	-0.8
		Sg	28	16.63	
FRF	0.90	239 Pg	28	19.40	0.0
		Sg	28	31.40	
LMR	1.11	232 Pg	28	23.60	0.6
		Sg	28	39.60	
LRG	1.13	240 Pg	28	23.80	0.4
		Sg	28	40.00	
LPL	1.64	335 Pg	28	31.60	0.3
PGF	1.76	147 Pn	28	32.60	-0.4
		Sn	28	54.40	

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

* OCT 07, 1990 15h 40m 02.73± 0.56s
 3.947 N ± 11.5km 62.786 E ± 8.1km
 DEPTH = 10.0km (geophysicist)
 5.0mb (12 obs.)

CARLSBERG RIDGE (421)

KOD	15.84	66 eP	43	54.20	6.3X
GBA	17.36	56 P	44	09.00	2.3
	2.1s	87.80nm		4.5mb	
GBA	17.36	56 P	44	04.00	-2.7
POO	18.09	36 iPc	44	15.00	-1.0
HYB	20.45	48 ePd	44	43.00	-0.3
QUE	26.40	8 eP	45	44.00	2.5
GKN	31.71	39 P	46	29.80	0.6
PKI	31.90	40 P	46	31.60	0.5
	1.2s	42.00nm		5.2mb	
KKN	31.97	40 P	46	31.80	0.3
	1.2s	48.00nm		5.3mb	
MAIO	32.34	355 iPd	46	35.30	0.8
GUN	32.44	40 P	46	36.60	0.8
LSA	37.11	43 Pd	47	17.00	1.1
KSH	37.32	17 eP	47	18.00	0.9
CHTO	38.29	64 iP	47	26.90	1.5
	1.5s	22.52nm		4.7mb	
KRI	38.73	237 iPc	47	33.60	4.3X
CIR	39.39	230 iPd	47	33.10	-1.5
BUL	41.22	233 eP	47	51.20	1.3
BCAO	44.13	272 iPc	48	14.40	0.8
	0.5s	5.00nm		4.6mb	
WMO	45.40	25 P	48	23.50	0.1
GYA	47.55	57 P	48	40.00	-0.7
GTA	48.68	38 eP	48	48.80	-0.5

LZH	49.50	44 eP	48	55.00	-0.7
	2.5s	50.00nm		5.1mb	
VR1	52.23	329 ePc	49	17.50	1.3
XAN	52.25	49 Pc	49	15.80	-0.8
MLR	52.39	328 eP	49	19.00	1.4
WHN	55.28	55 Pc	49	39.00	0.2
BTO	55.93	42 eP	49	43.00	-0.6
TIY	56.36	47 Pd	49	45.70	-1.0
HMC	57.09	43 P	49	51.60	-0.3
NJ2	59.40	55 Pc	50	08.00	0.0
BJI	59.96	45 eP	50	11.00	-0.7
	1.3s	40.00nm		5.4mb	
KSP	60.77	328 eP	50	16.50	-0.5
KHC	61.33	325 eP	50	19.80	-1.2
CLL	62.77	327 eP	50	30.00	-0.5
	1.5s	14.00nm		4.9mb	
SUF	64.56	342 iP	50	41.00	-1.0
	0.9s	10.00nm		5.0mb	
HFS	67.28	336 eP	50	57.50	-2.0
	0.8s	18.30nm		5.3mb	
NB2	68.81	336 P	51	07.00	-2.1
	1.0s	4.80nm		4.6mb	
ASPA	74.41	116 iPd	51	43.80	0.5
	1.1s	11.20nm		4.8mb	
LPB	130.22	252 ePKP	59	16.00	-0.4
ZOBO	130.28	252 PKP	59	18.00	1.3
	S.D. = 1.2	on 38 of 40 obs.			

OCT 07, 1990 15h 50m 11.36± 0.67s
 40.786 N ± 7.9km 21.625 E ± 5.4km
 DEPTH = 10.0km (geophysicist)

GREECE (364)
 ML 2.8 (THE).

FNA	0.19	270 ePd	50	14.52	-1.1
		eS	50	16.96	
GRG	0.61	74 ePd	50	22.92	-0.8
		eS	50	33.80	
OHR	0.71	298 iPgc	50	24.70	-0.6
		iSg	50	36.50	
		Lg	50	37.00	
LIT	0.95	136 ePd	50	26.72	-2.8
		eS	50	42.72	
THE	1.03	98 ePd	50	31.52	0.7
		iS	50	46.72	
KNT	1.03	68 ePd	50	30.68	-0.2
		eS	50	45.76	
SKO	1.19	353 iPg	50	34.10	0.5
	0.5s	174.00nm			
		iSg	50	39.00	
		Lg	50	51.10	
		Lq	50	56.00	
SOH	1.31	88 ePd	50	35.52	-0.1
		iS	50	56.88	
TIR	1.44	293 ePn	50	43.50	6.0X
SRS	1.53	77 iPc	50	39.50	0.8
KKS	1.58	325 ePn	50	43.00	3.6X
IGT	1.60	219 ePc	50	41.68	2.0
		eS	51	06.36	
LACI	1.68	301 ePn	50	44.40	3.6X
PUK	1.81	315 ePn	50	45.80	3.0X
AGG	1.84	163 ePd	50	43.72	0.4
		eS	51	13.84	
OUR	1.85	103 ePd	50	44.68	1.3
		iS	51	10.48	

S.D. = 1.4 on 12 of 16 obs.

* OCT 07, 1990 16h 57m 29.73± 0.43s
 10.118 N ± 7.8km 126.084 E ± 12.4km
 DEPTH = 33.0km (normal)
 4.9mb (13 obs.)

PHILIPPINE ISLANDS REGION (248)

TIY	30.10 338 eP	03 40.00	-1.4	TCE	0.69 118 iP	01 43.84	-0.2	Lg	19 42.00	
WB5	30.90 165 eP	03 44.20	-1.6					CZI	4.15 291 P	18 15.30 0.2
BJI	31.07 345 eP	03 47.00	0.0	TRN	1.02 111 iP	01 47.50	-0.2	TDS	4.15 297 P	18 16.00 0.7
	1.5s 10.00nm		4.4mb					MMB	4.23 27 ePc	18 16.00 -0.3
LZH	32.80 326 P	04 00.00	-2.4	TPP	1.14 127 eP	01 49.53	0.3		eS	19 06.00
	2.5s 50.00nm		5.0mb					CSI	4.24 298 P	18 18.80 2.3
HHC	33.19 340 eP	04 07.20	1.5	TBH	1.39 112 eP	01 52.13	-0.2	KKS	4.25 353 ePn	18 20.20 3.7X
ASPA	34.44 167 eP	04 14.70	-1.8					ORI	4.26 303 P	18 18.00 1.2
	0.5s 9.10nm		5.0mb	PIG	1.51 84 eP	01 54.33	0.4	KKB	4.27 20 iPc	18 18.00 1.0
	eS	09 23.00							iS	19 06.00
WARB	36.09 179 iPc	04 32.00	1.5	TPR	1.58 84 eP	01 54.75	0.0	PUK	4.28 348 ePn	18 16.30 -0.8
	0.3s 6.00nm		5.0mb					ULC	4.35 341 ePn	18 16.50 -1.5
GTA	37.40 326 P	04 41.40	-0.2	BOT	1.63 85 eP	01 55.21	-0.3		eSn	19 04.00
	0.6s 10.00nm		4.9mb					ATN	4.49 276 P	18 19.50 -0.5
LSA	37.97 306 eP	04 46.10	-0.8		S.D. = 0.4 on 7 of 7 obs.				eS	19 10.30
FORR	40.78 177 eP	05 10.00	0.5					MMN	4.49 298 P	18 23.20 3.1X
	0.4s 39.00nm		5.5mb						eS	19 17.00
GUN	41.69 301 P	05 17.10	-0.5	% OCT 07, 1990 19h 04m 58.80±2.05s				EZN	4.50 63 eP	18 19.00 -1.2
	0.6s 17.00nm		5.0mb	44.136 N ± 8.9km 7.141 E ± 14.9km				RZN	4.72 35 iPc	18 32.00 8.6X
PKI	41.99 300 P	05 18.80	-1.3	DEPTH = 10.0km (geophysicist)				RDO	4.73 45 ePn	18 22.30 -1.2
KKN	42.16 300 P	05 20.40	-0.9	NORTHERN ITALY (545)				TTG	4.78 343 ePn	18 23.30 -0.9
GKN	42.77 300 P	05 25.00	-1.2	ML 2.1 (LDG), 1.8 (GEN).					eS	19 17.30
NWAO	43.63 191 eP	05 34.00	1.2					ALN	4.87 50 iPc	18 24.00 -1.4
STK	44.32 161 eP	05 38.60	0.1	STV	0.17 51 P	05 03.46	0.7	MGR	4.90 299 P	18 26.00 0.1
	1.4s 49.00nm		5.1mb					VTS	4.99 18 eP	18 28.00 0.8
	e	05 53.60		ENR	0.22 66 P	05 03.56	-0.1	MEU	4.99 263 P	18 24.70 -2.5
RKG	44.78 191 eP	05 47.00	4.8X						eS	19 22.90
WMO	47.23 322 eP	05 57.00	-4.6X	SBF	0.35 142 Pg	05 05.00	-1.0	KDZ	5.02 40 eP	18 26.00 -1.6
GBA	47.68 279 P	06 05.50	0.1						eS	19 19.00
PVC	50.06 123 iPc	06 16.00	-7.7X	PZZ	0.37 356 P	05 06.33	-0.1	SGO	5.26 303 P	18 32.20 1.2
DZM	50.89 129 iPc	06 31.10	1.0						eS	19 31.70
KEV	53.71 340 eP	09 55.00	-1.3	ROB	0.55 73 P	05 08.27	-1.6	DIM	5.38 38 eP	18 32.00 -0.6
SOD	54.36 337 eP	09 59.00	-0.6					PVL	6.23 30 eP	18 42.00 -2.6
DSI	55.38 301 iPd	10 04.80	-0.6	IMI	0.59 112 P	05 12.48	1.8	DUI	6.39 309 P	18 47.00 0.0
SUF	55.61 333 iP	10 05.50	-0.4					ASS	6.29 312 P	19 13.00 -0.6
PRNI	55.90 300 iPd	10 07.40	-0.7	FIN	0.77 84 P	05 14.12	0.2	ARV	6.39 315 P	19 13.00 -1.9
MBC	55.90 13 eP	10 08.50	1.3					MLR	8.43 24 eP	19 20.00 4.4X
	0.8s 3.00nm		4.6mb					TLB	8.50 36 eP	19 24.00 7.7X
MBH	56.09 299 iPd	10 08.50	-0.5					PTJ	8.91 336 eP	19 26.50 4.4X
NUR	56.84 331 eP	10 11.00	-1.0	OCT 07, 1990 19h 17m 10.42±0.52s				VRI	9.02 26 ePd	19 24.00 0.4
HFS	92.10 332 eP	10 35.40	-1.4	37.861 N ± 5.1km 21.131 E ± 3.5km				PGD	9.32 313 P	19 27.00 -0.9
	0.4s 1.30nm		4.7mb	DEPTH = 10.0km (geophysicist)				FVI	10.69 327 P	19 45.50 -1.0
KIC	128.36 286 PKP	16 35.70	0.0	4.0mb (2 obs.)				NUR	22.78 5 eP	22 33.00 19.1X
TIC	128.53 287 PKP	16 36.00	-0.1	SOUTHERN GREECE (368)				HFS	22.79 350 eP	22 11.70 -2.3
LIC	128.67 286 PKP	16 36.10	-0.2	ML 3.9 (THE), 3.7 (ATH).					0.5s 2.00nm	3.9mb
	S.D. = 1.2 on 38 of 43 obs.							N82	24.03 348 P	22 22.60 -3.5X
				VLS	0.53 307 ePg	17 22.20	1.0		0.8s 3.70nm	4.0mb
				ITM	0.93 137 ePg	17 27.00	-1.2		S.D. = 1.2 on 55 of 63 obs.	
				EVR	1.18 27 ePb	17 32.50	0.0			
				AGG	1.49 39 iPc	17 38.30	1.0			
					eS	18 03.06				
				IGT	1.78 340 ePd	17 42.62	1.2			
					eS	18 14.46				
				VLI	1.84 128 ePg	17 44.80	2.5			
				ATH	2.05 86 ePb	17 47.00	1.7			
				KEK	2.12 331 ePn	17 47.00	0.6			
				SRN	2.20 337 ePn	17 48.00	0.5			
				LIT	2.47 25 ePd	17 51.98	0.6			
					iS	18 29.00				
				KZN	2.49 11 ePn	17 53.00	1.3			
				TPE	2.58 341 ePn	17 51.00	-1.9			
				KBN	2.77 355 ePn	17 58.10	2.5			
				FNA	2.93 4 iPc	17 58.50	0.6			
					eS	18 42.18				
				BERA	2.98 342 ePn	17 59.30	0.7			
				PLG	3.09 35 ePn	18 00.00	-0.1			
				THE	3.11 27 iPc	18 01.00	0.6			
					iS	18 38.00				
				GRG	3.24 17 ePc	18 02.34	0.0			
					eS	18 39.54				
				OHR	3.26 356 iPn	18 03.90	1.3			
					iSn	18 43.50				
					Lg	19 08.60				
				OUR	3.32 41 ePd	18 03.02	-0.4			
				SOH	3.42 30 iPc	18 05.90	1.0			
					iS	18 47.34				
				VAM	3.48 134 ePn	18 06.00	0.4			
				LCI	3.49 316 P	18 05.50	-0.3			
				KNT	3.57 22 ePd	18 07.22	0.3			
					iS	18 58.00				
				TIR	3.62 345 ePn	18 08.30	0.7			
				SRS	3.77 30 ePd	18 09.86	0.0			
					eS	19 00.30				
				LACI	3.93 344 ePn	18 11.80	-0.2			
				SKO	4.11 3 iPn	18 14.00	-0.6			
					i	18 25.70				
					i	19 01.90				
					i	19 20.80				

07d 21h

DOI 1.71 49 P 21 26.00 2.9X
 BNI 1.08 28 P 21 28.50 3.0X
 CKI 2.30 63 P 21 22.00 -9.5X
 PGF 2.75 107 P 21 36.87 -1.2
 S.D. = 0.5 on 15 of 18 obs.

OCT 07, 1990 21h 25m 34.91 ± 0.32s
 39.587 N ± 3.2km 27.787 E ± 3.1km
 DEPTH = 9.4 ± 2.3 km
 TURKEY (366)
 MD 3.9 (ISK), 3.7 (ATH). Felt in
 the Bolikesir area.

DST 0.65 88 iPg 25 47.60 -0.3
 EDC 0.76 4 iSg 25 49.50 -0.3
 BNT 0.78 8 iPg 25 50.60 0.5
 KGT 0.94 337 iPn 25 53.80 0.9
 EZN 1.15 282 iPn 25 57.30 0.8
 PRK 1.22 254 ePn 25 58.80 1.1
 IZM 1.26 199 iPn 25 57.20 -1.1
 YLV 1.56 51 iPn 26 03.30 0.4
 CTT 1.63 17 iPn 26 03.20 -0.7
 ISK 1.77 33 iPn 26 05.70 -0.1
 KHL 1.85 132 ePn 26 08.20 1.1
 ALT 1.88 106 iPn 26 08.40 0.9
 HRT 1.90 49 iPn 26 07.20 -0.5
 SMG 2.02 202 ePb 26 13.00 3.6X
 GPA 2.06 69 ePn 26 10.20 0.1
 DMK 2.23 359 iPn 26 12.30 -0.3
 RDO 2.32 313 ePn 26 14.00 0.2
 KDZ 2.74 320 iSg 26 20.00 0.2
 DIM 3.00 326 iPc 26 23.00 -0.4
 BCK 3.06 133 ePn 26 24.90 0.6
 RZN 3.14 313 iPd 26 26.00 0.4
 ARG 3.38 175 ePn 26 28.50 -0.3
 PLG 3.43 285 ePn 26 29.00 -0.6
 PLD 3.43 318 iPd 26 29.00 -0.6
 MMB 3.68 304 ePd 26 30.00 -3.2X
 BBTk 3.84 85 iPd 26 47.00 11.4X
 PGB 4.03 318 iPd 26 38.00 -0.1
 PVL 4.07 334 eP 26 38.00 -0.5
 KKB 4.24 304 iPd 26 41.00 -0.1
 VTS 4.58 312 eP 26 46.00 0.0
 TLB 5.00 2 eP 27 12.00 20.2X
 MLR 6.06 348 eP 27 07.00 0.2
 VRI 6.33 353 ePd 27 13.00 2.4
 S.D. = 0.8 on 29 of 33 obs.

? OCT 07, 1990 22h 03m 47.34 ± 1.39s
 48.325 N ± 12.1km 7.452 E ± 10.2km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.5 (LDG).

CDF 0.15 307 Pg 03 50.80 0.0
 FEL 0.59 140 ePg 03 59.31 0.0
 BSF 0.66 222 Pg 04 00.50 -0.1
 HAU 0.81 247 Pg 04 03.10 0.1
 LOR 2.64 248 Pg 04 38.20 7.4X
 LBF 2.70 242 Pg 04 39.20 7.5X
 SSF 2.95 246 Pg 04 43.20 8.1X
 SMF 2.97 237 Pg 04 43.50 8.1X
 AVF 3.17 243 Pg 04 47.00 8.8X
 S.D. = 0.2 on 4 of 9 obs.

OCT 07, 1990 22h 36m 30.96 ± 0.30s
 23.620 S ± 5.2km 66.578 W ± 7.5km

DEPTH = 229.3km (3 depth phases)
 4.7mb (17 obs.)
 JUJUY PROVINCE, ARGENTINA (128)

ANT 3.52 268 iPc 37 35.50 6.9X
 CNCB 6.90 349 P 38 08.70 -2.7
 LPB 7.19 348 P 38 12.00 -3.0
 ZOBO 7.46 348 iPd 38 15.70 -2.8
 RTLL 7.86 192 iPd 38 21.00 -2.2
 RTCB 8.08 194 eP 38 24.50 -1.6
 ZON 8.11 193 eP 38 27.00 0.5
 RTCV 8.39 191 eP 38 28.50 -1.7
 RTBS 8.41 197 ePd 38 29.50 -0.8
 ARE 8.49 326 eP 38 26.00 -5.7X
 PEL 10.15 200 eP 38 51.50 -1.2
 FCH 10.21 198 eP 38 53.50 -0.2
 PCH 10.54 198 ePc 38 57.00 -0.7
 LNV 11.13 201 eP 39 03.00 -2.1
 PPD 14.17 87 eP 39 42.30 -0.8
 VAO 18.03 92 eP 40 26.60 -1.0
 BAO 19.21 69 P 40 39.10 -0.8
 BMA 20.64 92 eP 40 54.50 0.5
 JFO 21.54 90 eP 41 04.00 1.2
 SOB1 28.43 64 ePc 42 04.90 -1.8
 CAI 33.00 64 eP 42 44.80 -1.8
 OLY 63.35 337 P 46 35.70 -2.1
 FVM 65.25 339 P 46 48.50 -1.5
 TUL 65.34 334 eP 46 48.50 -2.1
 SIO 65.40 334 iP 46 50.30 -0.7
 LIC 66.95 72 P 47 00.00 -1.2
 KIC 67.27 72 P 47 02.40 -0.8
 LKO 68.09 68 P 47 04.36 -4.0X
 ALO 69.45 326 eP 47 16.00 -0.4
 ANMO 69.45 326 P 47 16.30 -0.1
 CBM 70.23 359 P 47 20.30 -0.4
 GLD 72.63 330 P 47 34.80 -0.5
 GOL 72.66 330 P 47 34.90 -0.6
 PLM 74.18 318 P 47 46.00 1.6
 PEC 74.73 318 P 47 48.40 1.0
 RSSD 75.64 333 P 47 53.00 0.5
 DAU 76.07 326 P 47 56.20 1.1
 BW06 77.03 329 P 48 01.30 1.1
 BCH 77.39 318 P 48 03.90 1.7
 TNP 77.62 321 P 48 04.90 1.3
 SCH 78.11 360 ePc 48 05.50 -0.1
 LLA 78.85 318 eP 48 11.70 1.6
 PRS 78.93 318 eP 48 12.00 1.5
 SAO 79.26 318 eP 48 13.00 0.8
 CMB 79.44 320 eP 48 14.00 0.8
 MHC 79.75 318 eP 48 16.50 1.5
 BRK 80.46 318 eP 48 11.80 -6.7X
 LRM 80.69 329 ePd 48 20.90 1.0
 ORV 81.09 320 eP 48 23.30 1.5
 MAW 81.68 163 iPd 48 27.10 2.7
 WDC 82.36 320 eP 48 28.10 -0.2
 SES 83.52 333 eP 48 34.00 0.0
 FFC 83.73 340 eP 48 34.00 -1.0
 0.9s 10.00nm 4.6mb

NEW 84.66 329 P 48 40.10 0.3
 PNT 86.58 328 eP 48 50.00 0.9
 BUL 86.65 110 iPc 48 52.80 2.4
 BCAA 87.29 84 iPc 48 55.30 2.0
 CIR 88.83 112 iPc 49 00.20 -0.4
 KRI 88.86 108 iPc 49 07.50 6.6X
 YKA 93.90 340 eP 49 23.10 0.2
 ASPA 128.96 204 ePKP 55 13.90 0.4
 WB5 132.18 207 ePKP 55 21.00 1.4
 GBA 144.56 100 PKP 55 42.50 0.3
 HY8 146.82 94 ePKP 55 47.50 1.5
 GKN 153.75 74 PKP 55 58.00 1.7
 KKN 154.33 75 PKP 55 58.80 1.6
 PKI 154.46 75 PKP 55 58.90 1.4
 GUN 154.85 74 PKP 55 59.80 1.8
 S.D. = 1.4 on 63 of 68 obs.

? OCT 07, 1990 23h 38m 40.24 ± 5.23s
 31.559 S ± 25.4km 178.791 W ± 83.3km
 DEPTH = 509.5 ± 24.1 km
 KERMADEC ISLANDS REGION (177)

H8Z 6.48 201 eP 40 22.60 0.1
 PUZ 6.94 200 eP 40 26.90 -0.2
 NOZ 7.51 199 eP 40 33.00 0.2
 TAZ 7.70 209 P 40 36.50 1.8
 WLZ 7.79 215 eP 40 35.70 0.0
 WHH 8.26 207 eP 40 40.90 0.2
 NGZ 8.87 210 eP 40 46.40 -0.8
 PGZ 9.88 202 eP 40 57.80 0.3
 MNG 10.16 206 eP 40 58.80 -1.6
 KIW 10.58 207 eP 41 04.80 0.0
 MTW 10.62 204 eP 41 05.30 0.1
 MOW 10.94 204 eP 41 09.00 0.4
 TCW 11.13 208 eP 41 09.10 -1.5
 KHZ 12.44 207 eP 41 25.10 0.9
 DZM 16.20 302 iPd 42 01.90 -0.6
 WB5 43.48 274 eP 46 00.20 0.8
 SUF 144.98 340 iPKP 57 31.70 12.3X
 NUR 147.15 339 ePKP 57 38.00 15.0X
 BCAA 148.49 215 iPKPc 57 41.30 14.7X
 NB2 149.78 350 PKP 57 45.60 18.4X
 HFS 150.23 347 ePKP 57 45.50 17.7X
 S.D. = 0.9 on 16 of 21 obs.

? OCT 08, 1990 00h 14m 46.10 ± 8.51s
 29.382 N ± 25.3km 56.658 E ± 75.4km
 DEPTH = 33.0km (normal)
 SOUTHERN IRAN (353)

DHR 6.54 244 eP 16 30.00 7.6X
 RYD 10.09 245 eP 17 12.50 0.7
 QASM 12.08 257 ePc 17 38.30 -0.6
 AFIF 13.14 250 ePc 17 57.10 4.1X
 KMSA 14.21 234 ePc 18 06.80 -0.4
 SRAT 16.72 231 eP 18 40.00 0.2
 KMTA 16.83 232 eP 18 41.00 -0.1
 ABHA 16.86 232 eP 18 49.30 7.9X
 HOL 18.84 275 ePc 19 05.70 0.0
 BADA 18.97 273 ePc 19 07.50 0.2
 S.D. = 0.5 on 7 of 10 obs.

* OCT 08, 1990 00h 51m 32.45 ± 0.67s
 4.011 N ± 12.7km 62.648 E ± 11.1km
 DEPTH = 10.0km (geophysicist)
 5.0mb (4 obs.)
 CARLSBERG RIDGE (421)

KOD 15.94 66 eP 55 24.00 5.1X
 GBA 17.43 56 P 55 30.00 -7.4X
 HYB 20.51 48 eP 56 14.00 0.4
 QUE 26.35 8 eP 57 12.70 1.9
 MAIO 32.26 355 eP 58 05.00 1.5
 CHG 38.38 65 eP 58 56.90 1.0

BUL 41.15 233 iPc 59 20.90 1.9
1.1s 12.66nm 4.6mb
SLR 44.54 227 IPd 59 47.00 0.4
TLB 50.56 328 eP 00 46.00 12.8X
VRI 52.11 329 ePd 00 46.50 1.5
MLR 52.27 328 eP 00 48.00 1.7
SPC 57.61 328 eP 01 24.20 -0.9
ZST 58.73 326 eP 01 32.00 -0.8
ARV 58.86 320 P 01 37.00 3.2X
SFI 59.76 320 P 01 40.00 0.1
PGD 59.82 319 P 01 43.00 2.4
BJI 60.01 45 eP 01 41.00 -0.8
FVI 60.41 323 P 01 43.00 -1.4
BDI 60.63 319 P 01 45.50 -0.6
CTI 60.85 322 P 01 45.00 -2.5
KHC 61.20 326 eP 01 48.70 -1.1
BOB 61.68 320 P 01 55.00 1.8
MDI 61.94 321 P 01 54.00 -0.8
CKI 62.30 319 P 01 57.00 -0.2
VAI 62.57 321 P 01 59.00 0.0
CLL 62.64 327 eP 01 59.00 -0.3
FEL 63.89 322 eP 02 06.73 -1.1
HFS 67.17 336 eP 02 26.40 -2.1
1.4s 89.20nm 5.8mb
NB2 68.69 336 P 02 37.60 -0.5
1.2s 19.50nm 5.2mb
KEV 69.68 348 eP 02 44.00 0.1
WB5 74.28 112 eP 03 12.00 -0.2
ASPA 74.56 116 eP 03 12.60 -1.3
0.8s 6.90nm 4.7mb
ALO 139.92 346 ePKP 10 58.00 -5.6X
S.D. = 1.3 on 28 of 33 obs.

* OCT 08, 1990 01h 53m 18.40 ± 1.04s
40.266 N ± 10.9km 25.177 E ± 8.6km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 3.0 (ISK), 2.7 (ATH).

RDO 0.92 17 ePb 53 36.00 0.0
EZN 0.99 116 IPg 53 36.60 -0.5
PRK 1.32 140 ePb 53 42.50 -0.3
PLG 1.33 275 ePb 53 43.00 0.1
KGT 1.64 83 IPn 53 46.60 -0.7
MFT 1.69 71 ePn 53 46.00 -2.1
EDC 2.06 87 ePn 53 55.00 1.6
BNT 2.10 87 ePn 53 56.00 1.9
S.D. = 1.5 on 8 of 8 obs.

OCT 08, 1990 02h 19m 44.29 ± 0.34s
40.251 N ± 4.0km 25.189 E ± 2.8km
DEPTH = 7.3 ± 2.4 km
AEGEAN SEA (365)
MD 4.2 (ISK), 3.5 (THE).

ALN 0.92 45 IPc 20 02.28 0.2
iS 20 13.54
OUR 0.93 276 ePc 20 03.16 0.9
RDO 0.93 16 eP 20 02.60 0.3
EZN 0.97 116 IPg 20 00.90 -2.1
PRK 1.31 140 eP 20 09.00 0.3
eS 20 27.00
PLG 1.34 276 eP 20 10.00 0.7
KDZ 1.41 7 IPd 20 10.00 -0.3
iSg 20 27.00
RZN 1.48 346 ePc 20 12.00 0.5
eS 20 53.00
SRS 1.49 306 IPc 20 11.80 0.3
eS 20 34.00
SOH 1.51 293 ePd 20 12.20 0.4
iS 20 36.32
KGT 1.63 82 IPn 20 13.10 -0.3
MFT 1.68 71 IPn 20 13.50 -0.8
MMB 1.74 321 ePd 20 15.00 0.0
eS 20 36.00
THE 1.74 283 IPc 20 16.00 1.0
iS 20 39.50
DIM 1.82 8 IPc 20 17.00 0.9
Sg 20 44.00
PLD 1.89 349 eP 20 18.00 0.8
iSg 20 41.00
KNT 1.96 298 ePd 20 18.92 0.6
iS 20 42.60
EDC 2.05 86 IPn 20 22.00 2.5
LIT 2.07 267 IPc 20 20.20 0.3
eS 20 46.20
BNT 2.09 86 IPn 20 22.00 1.8

GRG 2.24 289 ePc 20 22.76 0.5
iS 20 51.00
KKB 2.27 316 IPc 20 23.00 0.3
iSg 20 58.00
PGB 2.42 342 IP 20 16.00 -8.9X
iSg 21 02.00
IZM 2.45 138 IPn 20 25.50 0.1
DMK 2.50 50 ePn 20 26.00 0.1
AGG 2.53 242 ePd 20 26.56 0.2
KZN 2.62 272 eP 20 28.00 0.3
CTT 2.62 69 IPn 20 26.50 -1.2
DST 2.72 103 IPn 20 29.00 -0.2
VTS 2.77 328 IP 20 30.00 0.0
iSg 21 16.00
FNA 2.95 282 ePc 20 33.12 0.6
iS 21 09.52
PVL 2.96 2 IPd 20 31.00 -1.5
iS 21 20.00
ISK 3.05 73 ePn 20 39.00 5.2X
YLV 3.21 83 IPn 20 42.60 6.5X
SKO 3.31 302 ePn 20 36.60 -1.0
OHR 3.45 286 ePn 20 40.00 0.5
HRT 3.46 79 ePn 20 52.00 12.3X
VLI 3.95 207 eP 20 45.50 -1.0
ALT 3.98 106 ePn 20 46.90 -0.2
PSN 4.09 32 eP 20 51.00 2.5
MLR 5.27 6 ePc 21 05.00 -0.4
TNR 5.44 353 ePc 21 07.00 -0.7
VRI 5.73 11 ePc 21 12.00 0.3
BEO 5.75 324 e(P) 21 42.00 30.0X
BBTK 5.82 92 eP 21 16.00 2.8
BZS 5.97 335 ePc 21 13.00 -2.1
S.D. = 1.1 on 41 of 46 obs.

* OCT 08, 1990 02h 23m 04.99 ± 1.03s
40.273 N ± 10.0km 25.237 E ± 9.2km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 2.7 (ATH).

RDO 0.90 15 ePb 23 23.00 0.8
EZN 0.95 118 IPg 23 23.60 0.6
PRK 1.30 142 ePb 23 29.00 0.0
PLG 1.37 275 ePb 23 30.00 -0.2
KGT 1.59 83 ePn 23 34.10 0.9
MFT 1.64 71 ePn 23 32.00 -2.0
EDC 2.01 87 ePn 23 45.00 5.7X
BNT 2.05 87 ePn 23 46.00 6.0X
S.D. = 1.4 on 6 of 8 obs.

* OCT 08, 1990 02h 40m 49.48 ± 0.76s
36.962 N ± 7.0km 29.376 E ± 7.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.7 (ISK).

KSL 0.86 169 eP 41 07.00 1.0
eS 41 36.00
BCK 1.09 62 ePc 41 09.20 -0.8
ARG 1.25 234 eP 41 11.00 -1.7
KHL 1.36 5 IPn 41 13.70 -0.9
SMG 2.16 291 eP 41 27.50 1.6
ALT 2.17 15 ePn 41 27.90 1.7
IZM 2.21 311 ePn 41 27.00 0.3
DST 2.70 348 ePn 41 33.00 -0.8
YLV 3.60 360 ePn 41 52.00 5.5X
BGT 3.84 336 ePn 41 49.60 -0.3
BBTK 3.92 42 eP 41 51.00 -0.1
eS 42 59.00
S.D. = 1.3 on 10 of 11 obs.

? OCT 08, 1990 03h 05m 01.03 ± 3.67s
42.056 N ± 16.9km 126.608 W ± 28.5km
DEPTH = 10.0km (geophysicist)
4.1mb (1 obs.)
OFF COAST OF OREGON (30)

LBFM 3.60 100 eP 05 58.00 -0.3
GT2 4.42 44 P 06 10.00 1.1
VBEM 4.72 49 P 06 13.04 -0.3
TDH 4.76 46 P 06 14.54 -0.1
VLMM 4.80 42 P 06 15.02 -0.2
VLL 4.93 45 P 06 18.73 1.7
VFP 4.95 47 P 06 19.16 1.8
VIPM 5.01 59 P 06 16.95 -1.3
MTMW 5.08 37 P 06 18.07 -1.0
FL2 5.15 35 P 06 21.15 1.1

SHW 5.20 36 P 06 21.56 0.8
HSR 5.20 36 P 06 21.19 0.3
CDFW 5.22 37 P 06 20.12 -0.9
ESD 5.24 36 P 06 21.48 0.1
STD 5.24 36 P 06 21.46 0.1
ERK 5.24 34 P 06 20.96 -0.4
CZM 5.28 33 P 06 21.75 -0.1
GULW 5.29 41 P 06 22.26 0.1
TDL 5.33 35 P 06 22.22 -0.4
KOSW 5.43 34 P 06 24.11 0.1
ASR 5.46 40 P 06 24.03 -0.4
GLK 5.76 37 P 06 28.06 -0.6
LON 5.82 35 P 06 28.94 -0.5
WPW 5.89 36 P 06 29.52 -1.0
RVC 5.90 33 P 06 31.02 0.4
JBO 5.97 53 P 06 31.63 0.1
FMW 6.02 34 P 06 32.15 -0.2
GSM 6.19 32 P 06 34.99 0.3
TBM 6.67 38 P 06 41.47 -0.1
HTW 6.69 29 P 06 41.18 -0.6
JCW 6.97 27 P 06 45.51 -0.1
ETW 7.12 37 P 06 47.66 -0.2
FFC 20.56 44 eP 09 43.00 0.8
0.7s 6.00nm 4.1mb
S.D. = 0.7 on 33 of 33 obs.

OCT 08, 1990 03h 23m 09.59 ± 1.56s
10.519 S ± 7.8km 162.460 E ± 8.1km
DEPTH = 40.6 ± 14.0 km
5.1mb (14 obs.) 4.9Msz (6 obs.)
SOLOMON ISLANDS (193)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 27C
Centroid Location:
Origin Time 03:23:13.2 1.1
Lat 10.17S 0.12 Lon 162.59E 0.04
Dep 15.0 FIX Half-duration 1.7
Moment Tensor: Scale 10⁻¹⁶ Nm
Mrr=-0.64 0.38 Mtt= 1.75 0.59
Mff=-1.12 0.50 Mrt= 0.00 0.00
Mrf= 0.00 0.00 Mtf= 0.80 0.37
Principal Axes:
T Val= 9.24 Plg= 0 Azm=140
N -0.64 90 180
P -8.60 0 50
Best Double Couple: Mo=0.9*10⁻¹⁶
NP1: Strike=185 Dip=90 Slip=180
NP2: 275 90 0

HNR 2.70 293 eP 23 51.50 0.0
eS 24 24.00
BKM 9.05 142 IP 25 19.00 -1.8
DZM 12.11 162 IPd 26 01.90 -0.6
iS 28 15.00
PMG 15.12 273 eP 26 44.00 1.9
1.5s 305.56nm 5.3mb
CTA 18.28 237 IPd 27 24.00 1.9
1.2s 184.38nm 5.1mb
iS 30 51.00
RMO 20.49 217 eP 27 46.00 -0.0
COO 22.25 205 IPc 28 05.00 1.2
JAY 23.01 289 ePc 28 13.00 0.8
OIS 24.14 243 e(P) 28 35.00 11.9X
CMS 25.94 214 eP 28 42.00 2.0
i 28 47.00
WB5 28.62 248 eP 29 03.00 -1.6
i 29 08.00
STK 28.71 219 eP 29 05.20 0.0
1.4s 8.00nm 4.2mb
GUA 29.57 324 eP 29 10.00 -3.1X
ASPA 30.19 241 eP 29 14.50 -4.1X
0.3s 4.10nm 4.7mb
Z 22s 0.70um 4.3Msz
BFD 32.04 211 eP 29 43.00 8.3X
WARB 37.24 240 eP 30 20.00 0.7
0.4s 4.00nm 4.7mb
FORR 37.75 232 IPd 30 23.60 0.1
0.4s 19.00nm 5.3mb
MRWA 47.14 240 eP 31 39.00 -1.0
MAT 52.08 335 (P) 32 15.00 -2.8
1.1s 12.66nm 4.8mb
eS 39 39.00
SSE 57.26 318 eP 33 14.00 18.4X
1.3s 28.00nm
Z 20s 0.50um 4.6Msz
eS 40 44.00

08d 03h

NJ2 59.41 317 Pc 33 10.50 -0.1
 WHN 61.65 313 eP 33 26.00 0.1
 MDJ 62.42 334 eP 33 30.50 -0.3
 CN2 63.67 331 P 33 38.40 -0.7
 1.0s 30.00nm 5.3mb
 Z 18s 1.20um 5.1Msz 28kmX
 pP 33 47.00
 eS 42 14.00
 GYA 65.47 305 P 33 50.40 -0.8
 BJI 66.08 323 eP 33 54.00 -0.6
 2.0s 110.00nm 5.6mb
 Z 40s 37.00um 6.3MszX
 TIY 67.01 319 eP 34 00.60 -0.2
 Z 22s 1.00um 5.0Msz
 XAN 67.40 314 P 34 02.00 -1.3
 KMI 68.10 302 Pd 34 08.00 -0.1
 2.0s 80.00nm 5.4mb
 Z 22s 0.60um 4.8Msz
 CHG 69.07 295 eP 34 19.00 5.1X
 CHTO 69.07 295 e(P) 34 12.20 -1.7
 1.1s 2.06nm 4.0mb X
 HMC 69.37 321 eP 34 15.60 0.1
 BTO 70.19 320 eP 34 20.50 0.0
 LZM 72.03 313 iPc 34 32.00 0.2
 1.6s 90.00nm 5.5mb
 GTA 76.39 315 iPc 34 57.20 0.4
 1.6s 90.00nm 5.5mb
 Z 18s 0.80um 5.1Msz
 E 14s 0.40um
 SPA 79.55 180 eP 35 11.30 -2.5
 0.9s 9.09nm 4.7mb
 WMO 86.45 316 P 35 49.50 0.1
 Z 36s 0.50um 4.7MszX
 MWC 87.29 55 eP 35 55.00 1.1
 ISA 87.33 53 eP 35 55.00 1.1
 SBB 87.60 54 eP 36 04.00 8.8X
 RVR 87.79 55 eP 35 58.00 2.0
 GSC 88.56 54 eP 36 04.00 4.2X
 TPC 88.88 55 eP 36 03.00 1.7
 TNP 88.91 51 eP 36 02.90 1.3
 1.0s 2.25nm 4.4mb
 GLA 89.64 56 eP 36 06.00 1.1
 PNT 90.14 40 eP 36 20.00 13.2X
 CNCB 123.21 118 PKP 42 14.00 8.8X
 LPB 123.23 118 (PKP) 42 15.00 9.9X
 ZOBO 123.31 117 ePKP 41 49.00 -16.5X
 e 42 05.00
 APO 124.91 342 ePKP 42 05.80 -0.7
 0.5s 1.60nm
 SIV 129.50 121 PKP 42 29.00 12.3X
 SPC 130.30 328 ePKP 42 20.70 3.2X
 ZST 132.54 329 ePKP 42 27.20 5.7X
 BCAO 143.75 263 ePKPd 42 41.00 -2.1X
 0.6s 4.00nm
 SOB1 149.60 129 ePKP 43 01.10 8.5X
 e 43 06.60
 e 43 14.30
 S.D. = 1.3 on 38 of 55 obs.
 OCT 08, 1990 03h 55m 11.44 ± 0.47s
 16.354 N ± 4.4km 145.694 E ± 5.7km
 DEPTH = 538.2 ± 5.9 km
 4.8mb (18 obs.)
 MARIANA ISLANDS (216)
 GUMO 2.86 196 eP 56 25.20 0.0
 0.4s 363.10nm
 PJG 2.86 196 eP 56 25.20 0.0
 GUA 2.90 195 eP 56 25.20 -0.3
 0.4s 508.47nm
 eS 57 22.70
 KAKJ 20.37 347 P 59 12.40 0.0
 CHJJ 20.50 344 P 59 12.60 -1.1
 MAT 21.18 343 eP 59 18.00 -1.9
 0.8s 28.36nm
 eS 02 47.00
 NIJJ 21.63 345 P 59 23.30 -0.7
 AAI 26.38 222 eP 00 06.00 -0.7
 KKM 30.63 254 ePc 00 44.50 0.8
 0.6s 64.50nm 5.4mb
 CN2 32.31 332 P 00 57.40 0.0
 0.8s 40.00nm 5.1mb
 MTN 32.39 207 iPc 00 58.50 0.2
 OIZ 34.22 280 eP 01 14.80 1.0
 BJI 34.85 319 eP 01 19.00 0.3
 TIY 36.18 313 eP 01 30.60 0.7
 XAN 37.39 305 P 01 40.60 0.8

GYA 37.57 292 P 01 42.60 1.1
 WBS 37.69 198 iPc 01 43.10 0.9
 i 03 32.00
 i 03 45.60
 CD2 40.81 298 P 02 07.80 0.2
 ASPA 41.41 196 eP 02 10.00 -2.3
 0.3s 9.40nm 4.8mb
 iPcP 03 57.70
 iPcS 06 55.50
 iS 07 48.20
 eScS 11 16.50
 LZM 41.98 306 eP 02 18.00 1.0
 1.5s 30.00nm 4.6mb
 DZM 43.26 151 iPd 02 28.00 0.9
 CHTO 44.54 280 iPc 02 37.30 0.3
 0.7s 15.57nm 4.6mb
 NNT 44.59 271 eP 02 39.60 2.1
 MBL 45.09 215 iPc 02 41.30 0.1
 0.3s 4.00nm 4.4mb
 GTA 45.99 309 eP 02 48.20 0.0
 WARB 46.16 204 iPc 02 50.30 0.9
 0.3s 8.00nm 4.7mb
 PSI 47.94 259 ePd 03 03.80 0.7
 STK 48.12 185 eP 03 03.90 -0.2
 0.6s 5.00nm 4.2mb
 NANU 48.66 218 eP 03 08.30 0.0
 FORR 49.89 200 eP 03 17.00 -0.3
 0.4s 19.00nm 5.0mb
 BWA 50.56 177 eP 03 23.30 1.1
 MRWA 53.02 213 eP 03 43.00 -1.4
 PKI 56.54 292 P 04 00.00 -5.4X
 THZ 63.06 157 eP 04 48.40 0.6
 MNG 63.08 155 eP 04 47.00 -0.9
 LTZ 63.72 158 P 04 51.30 -0.7
 KHZ 63.86 157 P 04 51.10 -1.7
 0.5s 29.00nm 5.1mb
 INK 71.52 23 ePd 05 38.20 -0.7
 0.8s 34.00nm 4.9mb
 MBC 75.41 14 ePd 06 00.50 -0.3
 0.5s 21.00nm 4.8mb
 PGC 78.47 43 eP 06 18.00 0.2
 YKA 80.05 28 eP 06 25.20 -0.6
 0.5s 15.80nm 4.7mb
 PNT 80.78 41 eP 06 30.00 0.1
 WDC 80.86 50 iPd 06 31.40 0.9
 MIN 81.61 51 ePd 06 34.80 0.3
 ORV 81.89 51 eP 06 36.00 0.3
 PRS 82.80 54 eP 06 41.20 0.9
 CMB 83.12 53 eP 06 42.70 0.8
 FRI 83.91 53 eP 06 46.70 0.9
 KEV 84.15 342 iP 06 45.80 -0.6
 0.6s 19.60nm 4.9mb
 SYP 84.37 56 eP 06 49.00 0.6
 ISA 85.24 54 eP 06 53.00 0.5
 SOD 85.55 340 iP 06 52.50 -0.7
 SES 85.76 39 eP 06 55.00 0.4
 SBB 86.03 55 eP 06 57.00 0.7
 LRM 86.44 43 ePd 06 58.50 0.2
 GSC 86.65 54 eP 07 00.00 0.7
 PLM 87.19 56 eP 07 03.00 1.0
 BAR 87.55 57 eP 07 04.00 0.5
 TPC 87.61 55 eP 07 04.00 0.2
 SUF 88.27 336 eP 07 05.00 -1.2
 GLA 88.91 56 eP 07 11.00 1.2
 FFC 89.06 32 iPd 07 10.10 0.1
 0.5s 9.00nm 4.9mb
 NUR 90.10 335 eP 07 13.00 -1.6
 HFS 94.55 338 eP 07 33.00 -2.1
 0.6s 7.40nm 5.0mb
 Z 18s 0.22um 4.7Msz
 LR 38 12.00
 ALO 94.72 52 eP 07 37.00 0.4
 NBO 94.76 340 P 07 34.00 -2.1
 0.7s 3.60nm 4.7mb
 LKO 141.66 310 PKP 13 35.50 -8.5X
 LNV 142.37 125 ePKP 13 42.00 -2.6X
 ROCH 142.99 123 iPKPd 13 44.50 -1.5
 KIC 143.05 305 PKPd 13 43.54 -2.8X
 0.3s 10.00nm
 TIC 143.09 306 PKPd 13 43.54 -2.9X
 0.4s 11.50nm
 SAN 143.12 124 ePKP 13 44.50 -1.5
 PCH 143.19 125 ePKP 13 45.00 -1.2
 PEL 143.20 124 iPKPd 13 45.20 -0.9
 0.6s 53.33nm
 LIC 143.36 305 PKPd 13 44.58 -2.3X
 0.4s 57.00nm

JACH 143.42 123 iPKPd 13 46.00 -0.6
 FCH 143.46 124 ePKP 13 46.50 -0.4
 ARE 144.36 96 ePKP 13 40.00 -0.8X
 MDZ 144.75 124 ePKP 13 49.90 1.1
 ZOBO 147.56 95 PKP 13 55.00 0.6
 Z 24s 0.08um 4.4MszX
 LR 18 00.00
 LPB 147.61 95 PKP 14 00.00 5.7X
 CNCB 147.74 96 PKP 13 56.00 1.3
 i 14 00.00
 SIV 154.30 93 PKP 14 04.00 0.5
 i 14 30.00
 PPD 162.98 112 ePKP 14 19.50 6.3X
 e 15 08.70
 S.D. = 1.0 on 75 of 84 obs.
 OCT 08, 1990 05h 50m 15.28 ± 1.85s
 40.630 N ± 12.6km 30.188 E ± 15.8km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.2 (ISK).
 GPA 0.35 165 iPg 50 22.20 -0.4
 HRT 0.44 296 ePg 50 23.50 -0.7
 eSg 50 30.00
 GBZT 0.59 286 ePg 50 28.50 1.4
 iSg 50 37.70
 YLV 0.62 264 iPg 50 27.00 -0.9
 ISK 0.96 297 ePg 50 27.00 -6.5X
 CTT 1.43 292 iPn 50 40.60 -0.7
 ALT 1.57 182 ePn 50 43.90 0.5
 DST 1.57 230 iPn 50 43.00 -0.4
 BNT 1.75 262 ePn 50 48.00 2.1X
 EDC 1.80 262 ePn 50 47.80 1.3
 DMK 2.19 304 ePn 50 52.40 0.2
 KGT 2.21 266 ePn 50 52.00 -0.5
 MFT 2.22 275 ePn 50 58.00 5.3X
 S.D. = 0.9 on 10 of 13 obs.
 OCT 08, 1990 06h 01m 55.77 ± 9.89s
 0.596 N ± 48.9km 79.201 W ± 52.2km
 DEPTH = 10.0km (geophysicist)
 NEAR COAST OF ECUADOR (105)
 COTA 0.90 107 iP+ 02 13.50 0.1
 S 02 28.00
 OUR 1.02 139 iP+ 02 15.20 -0.1
 S 02 30.10
 QTO 1.04 140 eP 02 15.80 0.1
 S 02 31.00
 CAYA 1.32 113 P 02 20.40 -0.1
 S 02 39.40
 VC1 1.46 147 iP+ 02 22.70 0.0
 S.D. = 0.2 on 5 of 5 obs.
 OCT 08, 1990 06h 06m 58.39s
 63.471 N 151.005 W
 DEPTH = 16.8km
 CENTRAL ALASKA (1)
 <AGS-P>.
 HUR 0.79 128 eP 07 13.17 -0.2
 MCK 0.96 73 eP 07 16.65 0.6
 RND 0.97 93 eP 07 16.67 0.3
 eS 07 30.85
 CUT 1.12 162 iP 07 18.64 -0.3
 eS 07 33.93
 NEA 1.40 37 eP 07 22.52 -0.6
 eS 07 41.68
 SKT 1.52 189 iP 07 24.82 0.0
 iS 07 43.52
 WRH 1.63 51 eP 07 25.59 -0.9
 CCB 1.84 49 eP 07 28.38 -1.0
 PWA 1.90 164 eP 07 30.93 0.6
 GHO 1.98 150 eP 07 31.34 0.1
 FBA 2.01 43 eP 07 32.30 0.4
 HDA 2.02 61 eP 07 31.79 -0.3
 PLRM 2.08 154 eP 07 32.87 0.0
 SML 2.08 142 eP 07 32.85 -0.1
 NCG 2.14 195 eP 07 33.49 -0.5
 GLM 2.19 44 eP 07 33.67 -1.0
 CRP 2.28 194 eP 07 37.11 1.1
 BGL 2.31 197 eP 07 36.39 0.0
 PMS 2.33 163 eP 07 37.21 0.6
 SPU 2.35 192 eP 07 36.38 -0.5
 SCM 2.36 132 eP 07 39.27 2.2
 CKL 2.37 196 eP 07 37.73 0.6

TOA 2.61 120 eP 07 41.56 0.9
SDG 2.67 108 eP 07 42.58 1.2
KLU 3.08 128 eP 07 48.51 1.2
VLZ 3.21 135 eP 07 49.37 0.4

26 obs. associated

? OCT 08, 1990 06h 10m 24.57±2.85s
6.060 S ±43.7km 107.416 W ±53.1km
DEPTH = 10.0km (geophysicist)
4.3mb (6 obs.) 4.1msz (1 obs.)
NORTHERN EASTER I. CORDILLERA (694)

ZOBO 39.79 108 eP 18 01.00 0.6
Z 22s 0.32um 4.1msz

LPB 39.86 109 eP 18 06.00 5.2X
CNCB 40.02 109 P 18 02.00 -0.4
ANMO 40.79 1 eP 18 08.60 0.6
1.9s 11.84nm 4.3mb

TUL 43.15 14 e(P) 18 27.40 0.3
1.0s 3.30nm 4.0mb
TNP 44.85 349 eP 18 41.90 0.8
1.2s 5.24nm 4.3mb

CMB 45.50 346 e(P) 18 46.90 0.9
1.6s 0.40nm 3.1mb X

GOL 45.57 2 eP 18 45.90 -0.9
1.1s 2.56nm 4.1mb

DAU 46.38 356 eP 18 52.90 -0.3
BW06 48.64 358 eP 19 11.70 0.8
1.6s 9.87nm 4.6mb

PNT 56.16 350 eP 20 09.00 2.2X
SES 56.31 357 eP 20 06.00 -1.8
YKA 68.58 356 eP 21 28.80 -0.5
0.8s 3.20nm 4.6mb

S.D. = 1.0 on 11 of 13 obs.

* OCT 08, 1990 10h 04m 39.71±2.49s
44.344 N ±6.7km 114.371 W ±22.3km
DEPTH = 5.0km (geophysicist)
WESTERN IDAHO (33)
ML 3.5 (BUT).

HPI 1.12 124 eP 05 01.30 0.0
MCMT 1.19 66 iPd 05 02.00 -0.6

LTMT 1.63 83 ePn 05 10.10 0.7
BGMT 1.88 61 ePn 05 13.30 0.2

HBMT 1.91 40 iPd 05 13.70 0.2
LRM 2.01 42 iPd 05 15.00 0.1

PTI 2.07 135 e(P) 05 15.50 -0.2
BUT 2.10 37 ePg 05 19.60 3.4X
ISn 05 43.00
ISg 05 46.90

MEMT 2.72 61 ePn 05 24.80 -0.3
SXM 2.87 50 ePn 05 27.40 0.2

HRV 2.96 36 ePn 05 28.10 -0.3
BW06 3.83 112 e(P) 05 46.20 5.3X
NEW 4.36 335 e(P) 05 53.00 4.9X

S.D. = 0.4 on 10 of 13 obs.

% OCT 08, 1990 10h 14m 59.39±0.78s
46.283 N ±6.1km 8.635 E ±7.6km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)

TMA 0.24 137 iPc 15 05.00 0.3
VAI 0.43 167 P 15 08.30 0.2

MMK 0.52 244 iPc 15 09.40 -0.6
VDL 0.61 70 iPc 15 11.30 -0.6

LLS 0.64 23 iPc 15 11.60 -0.7
SLE 1.49 356 iPc 15 27.50 1.3

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

* OCT 08, 1990 11h 24m 19.69±1.50s
41.958 N ±7.6km 23.046 E ±13.0km
DEPTH = 11.7 ±5.8 km
GREECE-BULGARIA BORDER REGION (363)
MD 3.0 (ATH).

KKB 0.10 163 ePg 24 23.00 0.4
Sg 24 29.00

MMB 0.63 126 iPg 24 32.00 -0.2
VTS 0.64 11 iPg 24 33.00 0.5
ISg 24 42.00

PGB 1.02 54 iPg 24 37.00 -1.9
Sg 24 51.00

PLD 1.24 83 iPg 24 43.00 0.4
ISg 25 00.00

RZN 1.28 102 ePg 24 47.00 3.6X
Sg 25 00.00

PLG 1.61 169 ePb 24 47.50 -0.6

KDZ 1.80 99 iPc 24 51.00 0.2

DIM 1.86 86 iPg 24 53.00 1.4

RDO 2.04 113 ePn 24 56.20 2.0
eSn 25 22.80

PVL 2.11 53 iPc 24 56.00 0.8

KGT 3.55 114 iPn 25 14.90 -0.8

S.D. = 1.3 on 11 of 12 obs.

* OCT 08, 1990 11h 28m 25.10±0.87s
39.105 N ±7.2km 27.617 E ±8.9km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 3.1 (ISK).

IZM 0.76 202 ePg 28 40.00 0.0
eSg 28 52.30

DST 0.93 57 ePg 28 42.80 -0.1
eSg 28 56.80

EZN 1.23 306 ePn 28 48.00 0.0

BNT 1.27 10 ePn 28 49.00 0.3

KGT 1.37 350 ePn 28 49.90 -0.3

S.D. = 0.3 on 5 of 5 obs.

* OCT 08, 1990 11h 32m 39.47±0.89s
39.129 N ±7.0km 27.622 E ±8.9km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.6 (ISK).

IZM 0.78 201 ePg 32 54.80 0.1
eSg 33 06.80

DST 0.91 58 iPg 32 56.80 -0.2
eSg 33 09.80

EZN 1.22 305 ePn 33 02.10 -0.1

EDC 1.23 9 ePn 33 02.80 0.5

KGT 1.34 350 iPn 33 03.90 -0.3

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

* OCT 08, 1990 12h 25m 13.29s
63.469 N 150.622 W
DEPTH = 15.5km
CENTRAL ALASKA (1)
<AGS-P>.

HUR 0.67 137 iP 25 26.18 0.1
eS 25 36.44

RND 0.80 94 eP 25 28.58 0.2
eS 25 40.60

MCK 0.80 70 eP 25 28.56 0.2

CUT 1.08 171 iP 25 32.98 -0.1
eS 25 48.41

NEA 1.30 31 eP 25 36.29 -0.5
eS 25 53.83

WRH 1.50 47 eP 25 38.34 -1.3

SKT 1.55 196 eP 25 39.89 -0.5

CCB 1.71 45 eP 25 41.15 -1.5
eS 26 05.62

PWA 1.86 169 eP 25 44.68 -0.1

HDA 1.87 58 eP 25 45.08 0.1

GHO 1.88 155 eP 25 45.10 0.0

FBA 1.90 39 eP 25 45.57 0.3

SML 1.97 147 eP 25 46.40 -0.1

PLRM 2.01 159 eP 25 46.84 0.0

GLM 2.08 41 eP 25 46.63 -1.4

DDM 2.15 79 eP 25 52.39 3.3

NGC 2.19 200 eP 25 48.44 -1.3

CGLM 2.26 197 eP 25 49.17 -1.6

PMS 2.29 167 eP 25 51.52 0.5

CRP 2.32 199 eP 25 51.72 0.1

BGL 2.36 201 eP 25 51.83 -0.3

TOA 2.46 122 eP 25 54.63 1.2

SDG 2.50 110 eP 25 55.27 1.2

KLU 2.95 130 eP 26 02.04 1.6

RDT 3.03 197 eP 26 01.20 -0.3

25 obs. associated

OCT 08, 1990 12h 39m 05.46±0.52s
40.563 N ±5.2km 27.803 E ±3.9km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.9 (ISK).

EDC 0.22 168 iPg 39 10.80 0.6
ISg 39 12.80

BNT 0.22 157 iPg 39 10.50 0.2
ISg 39 12.60

KGT 0.40 254 iPg 39 13.80 0.2

MFT 0.46 300 ePg 39 14.00 -0.8

KCT 0.53 126 iPg 39 14.80 -1.3

CTT 0.75 39 ePg 39 21.30 1.1

DST 1.15 146 iPn 39 27.80 0.9

YLV 1.20 89 iPn 39 27.30 -0.5

GBZT 1.27 79 ePg 39 29.00 0.0
ISg 39 47.00

IZI 1.29 99 ePn 39 28.80 -0.7

EZN 1.35 237 ePn 39 30.10 -0.2

HRT 1.44 79 ePn 39 32.10 0.4

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

OCT 08, 1990 14h 49m 05.14±0.43s
9.814 N ±8.1km 92.792 E ±7.8km
DEPTH = 33.0km (normol)
4.8mb (6 obs.)

NICOBAR ISLANDS REGION (704)

BSI 4.96 150 eP 50 20.00 0.7

NNT 7.35 67 eP 50 55.20 2.3

SNL 8.17 108 eP 51 05.40 1.0

PSI 9.33 139 ePd 51 24.80 4.3X

BDT 9.54 39 eP 51 20.00 -3.3X

IPM 9.68 122 ePd 51 27.00 1.7
e 53 10.20

CHG 10.75 33 iPd 51 43.90 4.0X
1.0s 25.00nm 5.4mb

KOD 15.10 273 eP 52 39.50 1.4

GBA 15.50 286 P 52 43.00 0.0
S 55 14.00

HYB 15.76 300 eP 52 47.50 1.0

PKI 18.99 339 P 53 26.60 -0.4
1.2s 73.00nm 4.8mb

DMN 19.13 339 P 53 29.00 0.4

GUN 19.14 341 P 53 29.00 0.1

KKN 19.23 339 P 53 29.60 -0.1
1.2s 36.00nm 4.5mb

GKN 19.65 338 P 53 32.60 -1.9

POO 20.29 297 eP 53 42.00 0.9

QUE 31.49 314 eP 55 28.10 1.6

BJI 36.58 31 eP 56 09.00 -0.9

MUN 47.21 153 eP 57 36.00 -0.8

KLB 47.61 151 eP 57 38.80 -1.2

NWAO 48.47 152 eP 57 45.20 -1.5

RKG 49.33 153 eP 57 55.00 1.7

WB5 50.46 126 iPd 58 00.00 -2.2

STK 62.40 134 iPc 59 25.50 -1.8
0.6s 6.00nm 4.9mb

RMO 65.21 125 iPd 59 44.90 -1.0

BWA 68.61 133 e(P) 00 08.50 1.2

SOD 71.92 338 eP 00 26.00 -0.8

BCAO 73.76 272 iPd 00 39.00 0.4
0.6s 6.00nm 4.8mb

HFS 76.12 330 eP 00 49.50 -1.7
0.4s 0.90nm 4.1mb

S.D. = 1.4 on 26 of 29 obs.

* OCT 08, 1990 15h 28m 58.18s
61.150 N 150.790 W
DEPTH = 55.0km
SOUTHERN ALASKA (2)
<AGS-P>.

SUA 0.32 4 eP 29 07.61 -0.5

NKA 0.46 208 eP 29 10.82 1.4

PMS 0.60 80 iP 29 10.67 -0.4

IS 29 20.87

CGLM 0.61 286 iP 29 10.60 -0.6

eS 29 20.44

SPU 0.61 274 iP 29 10.68 -0.6

eS 29 20.71

PWA 0.67 41 eP 29 11.18 -0.6

CRP 0.67 281 eP 29 11.67 -0.4

SLKM 0.70 156 iP 29 11.82 -0.5
eS 29 22.99

NGC 0.71 292 iP 29 11.68 -0.8

eS 29 22.51

CKL 0.75 274 iP 29 12.31 -0.7

IS 29 23.81

BGL 0.78 279 iP 29 12.70 -0.7

eS 29 24.25

SKT 0.91 337 iP 29 13.99 -1.0

PLRM 0.91 60 eP 29 13.83 -1.2

08d 15h

RDT	0.98	235	eS	29 26.92	
			iP	29 15.37	-0.6
			eS	29 29.06	
GHO	1.09	54	eP	29 16.47	-1.1
NNL	1.14	193	eP	29 18.70	0.6
RSO	1.18	235	eP	29 18.40	-0.5
			eS	29 34.39	
SEW	1.24	147	eP	29 18.74	-0.7
CUT	1.28	11	eP	29 18.74	-1.3
SML	1.35	60	eP	29 19.81	-1.3
CNPM	1.64	188	eP	29 24.02	-1.1
KNIM	1.70	117	iP	29 23.38	-2.6
VZW	2.06	91	iP	29 28.79	-2.2
VLZ	2.16	89	iP	29 30.38	-2.0
KLU	2.37	80	eP	29 33.24	-2.2

25 obs. associated

* OCT 08, 1990 16h 11m 44.49±0.91s
35.994 N ±10.5km 81.091 E ±12.0km
DEPTH = 10.0km (geophysicist)
4.4mb (3 obs.)

SOUTHERN XINJIANG, CHINA (321)

NDI	7.99	205	eP	13 43.00	-0.4
GKN	8.52	158	P	13 54.00	3.1X
	0.4s	18.00nm		5.7mb	X
KKN	8.92	155	P	13 56.20	-0.3
	0.4s	21.00nm		5.8mb	X
GUN	9.02	152	P	13 58.40	0.3
	0.4s	21.00nm		5.8mb	X
DMN	9.03	157	P	13 57.60	-0.5
PKI	9.16	155	P	13 59.20	-0.8
	0.4s	21.00nm		5.9mb	X
QUE	13.19	248	eP	14 47.00	-7.6X
HYB	18.64	188	eP	16 05.00	0.6
GBA	22.53	189	P	16 46.00	0.1
CHTO	23.26	133	e(P)	16 54.00	1.0
	1.0s	2.00nm		3.6mb	
NB2	49.69	323	P	20 37.40	-0.8
	0.9s	4.50nm		4.5mb	
BCAO	65.32	257	iPc	22 30.00	0.8
	0.8s	4.00nm		4.7mb	

id 29 51.50
S.D. = 0.8 on 10 of 12 obs.

OCT 08, 1990 16h 28m 44.38±0.87s
40.271 N ±9.0km 25.188 E ±7.4km
DEPTH = 10.0km (geophysicist)

AEGEAN SEA (365)
MD 2.7 (ATH).

RDO	0.91	17	ePb	29 02.10	0.3
EZN	0.98	117	iPg	29 03.00	0.0
			iSg	29 16.10	
PRK	1.32	140	ePb	29 08.70	-0.1
PLG	1.34	275	ePb	29 09.00	0.0
MFT	1.68	71	ePn	29 12.70	-1.3
BNT	2.09	87	ePn	29 21.00	1.1

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

* OCT 08, 1990 16h 33m 14.54±1.44s
40.166 N ±7.8km 23.391 E ±13.0km
DEPTH = 10.0km (geophysicist)

GREECE (364)
ML 2.8 (THE).

THE	0.57	325	ePd	33 24.92	-1.1
			iS	33 33.40	
SOH	0.66	358	ePd	33 27.56	-0.1
			eS	33 35.64	
LIT	0.69	265	ePc	33 28.44	0.2
			eS	33 39.36	
SRS	0.96	9	ePc	33 32.96	0.1
			eS	33 48.76	
KNT	1.06	340	ePd	33 34.96	0.4
			eS	33 49.72	
GRG	1.09	317	ePc	33 35.68	0.6
			iS	33 50.68	
AGG	1.41	216	ePc	33 40.12	-0.1
			eS	34 04.88	

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

* OCT 08, 1990 17h 00m 06.98±1.96s
9.231 S ±9.1km 110.783 E ±11.1km
DEPTH = 92.0 ±20.0 km
5.0mb (9 obs.)

SOUTH OF JAVA (282)

TRT	2.38	51	iPc	00 45.10	0.2
			iS	01 26.40	
NANU	14.02	162	eP	03 13.00	-9.7X
	0.3s	13.00nm		4.7mb	
MBL	14.72	145	iPc	03 23.00	-8.0X
	0.3s	6.00nm		4.3mb	
			eS	05 52.00	
AAI	18.15	73	eP	04 15.00	0.4
MTN	20.29	102	iPd	04 37.50	-0.2
	0.4s	39.00nm		5.1mb	
			eS	08 16.00	
MRWA	20.48	167	eP	04 37.00	-2.6
			eS	08 08.70	
WARB	22.60	140	eP	05 02.00	1.3
			ePP	05 12.00	
			eS	09 02.00	
MUN	23.19	168	eP	05 07.00	0.6
COOL	23.61	157	eP	05 10.30	-0.2
			e	05 21.70	
WB5	25.13	118	iPd	05 25.20	0.1
			e	10 08.90	
STK	36.38	133	iPd	07 04.60	0.4
	0.7s	15.00nm		5.0mb	
KOD	38.38	299	eP	07 22.60	1.1
GBA	40.13	304	P	07 35.30	-0.3
HYB	41.42	310	eP	07 46.00	-0.2
PKI	44.07	327	P	08 08.20	0.1
GUN	44.09	328	P	08 08.60	0.4
	0.6s	20.00nm		5.1mb	
DMN	44.27	327	P	08 10.00	0.4
	0.6s	15.00nm		5.0mb	
KKN	44.32	327	P	08 10.00	0.1
	0.8s	16.00nm		4.9mb	
GKN	44.83	326	P	08 14.00	0.1
	0.6s	14.00nm		5.0mb	
POO	45.70	307	iPc	08 19.40	-1.4
MAT	52.32	28	eP	09 10.00	-1.5
QUE	57.53	315	eP	09 49.00	-0.5
MAIO	66.12	316	eP	10 46.00	-0.8
BCAO	92.91	274	iPc	13 14.00	2.4
	0.4s	4.00nm		5.1mb	

S.D. = 0.2 on 6 of 6 obs.

YUGOSLAVIA (383)

KNT	0.35	143	iPd	51 05.70	0.0
			eS	51 12.80	
GRG	0.51	199	ePc	51 10.00	1.2
			eS	51 17.36	
KKB	0.55	39	ePg	51 09.00	-0.5
			Sg	51 17.00	
SRS	0.80	114	ePc	51 13.08	-0.9
			eS	51 23.00	
SOH	0.83	138	ePd	51 13.80	-0.7
			eS	51 25.76	
MMB	0.85	80	iPg	51 15.00	0.3
THE	0.85	162	ePd	51 14.88	0.1
			eS	51 26.84	
SKO	1.03	301	ePn	51 16.50	-1.3
VTS	1.23	21	iPg	51 23.00	1.7
			iSg	51 40.00	
RZN	1.59	81	eP	51 27.00	0.1

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

* OCT 08, 1990 19h 23m 32.14±1.10s
8.671 S ±9.1km 119.730 E ±13.0km
DEPTH = 189.6 ±16.1 km
4.4mb (5 obs.)

FLORES ISLAND REGION (286)

MKS	3.44	356	iPc	24 28.50	1.4
TRT	7.09	277	ePc	25 10.00	-4.3X
KNA	11.29	129	eP	26 08.00	-1.2
			iS	28 09.00	
MTN	11.94	111	iPd	26 16.90	-0.7
			eS	28 24.00	
MBL	12.42	180	iPd	26 22.40	-1.3
	0.4s	9.00nm		4.6mb	
			eS	28 32.00	
NANU	14.39	196	eP	26 48.00	-0.5
	0.2s	5.00nm		4.6mb	
			eS	29 18.00	
WB5	18.02	130	eP	27 31.30	-0.3
			eS	30 45.90	
WARB	18.61	160	eP	27 39.00	1.2
	0.3s	3.00nm		4.2mb	
			eS	31 06.00	
MRWA	20.74	189	eP	28 00.00	0.7
COOL	22.14	177	eP	28 13.30	0.3
KLB	22.88	184	eP	28 21.00	0.8
STK	30.75	142	eP	29 33.40	1.7
	1.8s	16.00nm		4.4mb	
CHTO	34.15	323	eP	30 00.90	-0.3
	1.0s	1.75nm		3.7mb	
PKI	49.01	318	P	32 00.20	-1.9

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

* OCT 08, 1990 17h 40m 43.52±1.19s
33.314 S ±6.9km 71.475 W ±10.2km
DEPTH = 10.0km (geophysicist)

NEAR COAST OF CENTRAL CHILE (135)

LCCH	0.18	206	iPd	40 48.00	0.4
			iS	40 54.00	
ROCH	0.52	49	iPc	40 52.10	-2.0
			iS	41 02.00	
TACH	0.56	127	iPd	40 55.50	0.5
			iS	41 07.10	
LNK	0.64	175	iPd	40 55.00	-1.4
			iS	41 07.50	
PEL	0.68	76	iPd	40 56.80	-0.3
			iS	41 10.10	
SAN	0.69	102	iPd	40 57.40	0.1
			iS	41 11.30	
PCH	0.86	111	iPc	41 00.50	0.4
			iS	41 16.50	
CHCH	0.92	132	iPd	41 01.20	0.0
JACH	0.97	50	iPd	40 58.60	-3.5X
			iS	41 14.50	
FCH	0.99	91	iP	41 02.00	-0.6
			iS	41 20.70	
MDZ	2.24	80	eP	41 24.20	2.9X
			i(S)	41 32.60	
RTBS	2.37	47	e(P)	41 22.00	-1.1
RTCV	2.87	61	e(P)	41 32.00	1.8
RTCB	2.91	52	e(P)	41 11.30	-19.4X
			eS	42 11.20	
ZON	2.95	54	eP	41 33.00	1.7
RTLL	3.22	53	e(P)	41 35.50	0.3
			eS	42 19.00	

S.D. = 1.2 on 13 of 16 obs.

OCT 08, 1990 18h 14m 05.99±7.42s
17.399 N ±67.8km 61.959 W ±23.4km
DEPTH = 28.2 ±12.6 km
LEEWARD ISLANDS (92)
ML 2.7 (FDF).

BPA	0.36	164	eP	14 14.30	0.0
			S	14 21.80	
NEV	0.64	246	eP	14 18.60	0.0
			S	14 29.00	
SEG	1.08	156	eP	14 25.10	-0.2
SFG	1.35	147	eP	14 29.20	0.1
MGC	1.60	157	eP	14 32.69	0.0
BBL	1.92	166	eP	14 37.40	0.0
			S	15 03.50	

S.D. = 0.2 on 6 of 6 obs.

* OCT 08, 1990 18h 50m 58.38±0.72s
41.444 N ±5.0km 22.616 E ±6.5km
DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)

KNT 0.35 143 iPd 51 05.70 0.0

GRG 0.51 199 ePc 51 10.00 1.2

KKB 0.55 39 ePg 51 09.00 -0.5

SRS 0.80 114 ePc 51 13.08 -0.9

SOH 0

FEL 0.58 145 ePg 10 08.99 -0.1
 GWF 0.63 7 Pg 10 09.74 0.0
 BSF 0.71 223 Pg 10 10.80 -0.5
 HAU 0.85 246 Pg 10 13.60 0.0
 VITF 1.03 263 Pg 10 16.66 0.1
 LOMF 1.11 205 Pg 10 18.74 0.8
 LOR 2.69 248 Pg 10 48.00 6.7X
 SMF 3.02 237 Pg 10 54.00 8.1X
 Sg 11 32.20
 S.D. = 0.4 on 10 of 12 obs.

* OCT 08, 1990 20h 17m 51.59±0.85s
 31.831 S ± 8.7km 68.966 W ± 9.1km
 DEPTH = 33.0km (normal)
 SAN JUAN PROVINCE, ARGENTINA (137)

RTCV 0.37 95 ePc 18 00.90 0.6
 RTCB 0.37 22 iPd 17 59.80 -0.6
 ZON 0.38 41 iPd 18 00.50 0.1
 eS 18 12.50
 RTBS 0.45 292 ePd 18 01.80 0.4
 RTLL 0.66 40 iPc 18 00.40 -4.0X
 MDZ 1.05 175 eP 18 09.70 -0.4
 e 18 26.90
 S.D. = 0.7 on 5 of 6 obs.

OCT 08, 1990 21h 02m 14.98±0.72s
 12.430 S ± 6.2km 76.827 W ± 8.8km
 DEPTH = 72.3 ± 6.2 km
 4.8mb (8 obs.)
 NEAR COAST OF PERU (115)
 Felt strongly in the Lima-Mocho-
 San Vicente de Conete area.

NNA 0.44 358 iPc 02 26.60 -1.1
 PT08 0.54 30 iPd 02 28.00 -1.0
 PT06 1.47 161 iPd 02 26.00 -14.1X
 ARE 6.54 128 eP 03 52.00 1.0
 iS 05 13.70
 ZOBO 9.26 115 P 04 28.00 -0.6
 e 06 28.00
 LPB 9.38 117 P 04 32.00 1.8
 CNCB 9.60 118 P 04 34.00 0.6
 VC1 11.82 352 P 05 03.80 0.6
 GGP 12.30 352 eP 05 12.00 2.3
 YANA 12.36 352 eP 05 11.00 0.7
 CAYA 12.48 355 eP 05 11.50 -0.5
 COTA 12.77 353 eP 05 17.00 1.2
 SIV 15.68 105 P 05 51.00 -2.1
 PEL 21.37 166 eP 06 59.00 0.7
 MDZ 21.63 162 eP 07 02.90 2.0
 SAN 21.67 166 eP 06 59.00 -2.3
 TOV 23.15 18 eP 07 19.30 3.3X
 OLLA 24.42 24 eP 07 29.00 0.6
 FISA 24.69 18 eP 07 31.00 0.2
 VAO 30.26 114 eP 08 14.90 -6.6X
 e 08 25.90
 SOB1 35.42 88 (P) 09 06.00 -0.3
 TUL 51.31 340 eP 11 13.80 -0.1
 0.8s 15.70nm 5.1mb

FVM 51.74 346 P 11 15.40 -1.8
 0.5s 8.40nm 5.0mb
 ALO 54.85 330 ePc 11 40.30 -0.2
 1.0s 9.25nm 4.8mb
 ANMO 54.86 330 P 11 40.20 -0.3
 1.0s 9.38nm 4.8mb
 HBVT 56.62 3 P 11 52.50 -0.2
 GOL 58.27 334 P 12 03.80 -0.9
 1.2s 9.22nm 4.8mb
 CBM 59.60 7 P 12 13.20 -0.3
 SBB 60.90 322 eP 12 23.00 0.4
 RSSD 61.49 338 P 12 25.20 -1.5
 DAU 61.50 331 P 12 26.30 -0.7
 CLC 61.53 323 eP 12 27.00 0.1
 ABL 61.86 321 P 12 29.30 0.0
 ISA 61.95 322 eP 12 22.00 -7.7X
 DUG 62.10 329 P 12 30.70 0.0
 TNP 62.88 325 P 12 36.30 0.3
 0.7s 5.00nm 4.7mb
 CMB 64.67 323 ePc 12 47.10 -0.5

ORV 66.33 324 eP 12 58.40 0.3
 SES 69.35 337 eP 13 17.00 0.2
 NEW 70.20 333 P 13 22.10 0.1
 0.9s 8.22nm 4.7mb
 BMW 71.88 328 P 13 32.50 0.3
 EDM 72.47 338 eP 13 35.00 -0.6
 MCW 73.17 330 P 13 40.30 0.6
 KIC 74.03 80 P 13 44.60 -0.7
 SPA 77.65 180 iPc 14 05.20 0.2
 1.0s 10.50nm 4.7mb
 INK 89.95 342 eP 15 08.00 1.0
 WB5 135.57 224 ePKP 21 30.00 0.5
 BJI 150.20 340 ePKP 21 59.50 5.5X
 1.0s 24.00nm
 GBA 154.90 84 PKPc 22 01.40 0.0
 1.0s 3.40nm

S.D. = 1.0 on 44 of 49 obs.

* OCT 08, 1990 21h 42m 48.06s
 62.045 N 153.161 W
 DEPTH = 0.0km
 CENTRAL ALASKA (1)
 <AGS-P>. ML 3.8 (PMR).

SKT 0.77 94 iP 43 03.01 -0.5
 NCG 0.80 143 eP 43 03.67 -0.4
 eS 43 15.49
 BGL 0.87 155 iP 43 04.84 -0.5
 iS 43 17.88
 CRP 0.92 148 eP 43 05.97 -0.4
 CGLM 0.92 143 eP 43 05.90 -0.5
 iS 43 19.61
 CKL 0.94 155 eP 43 06.26 -0.5
 SPU 1.02 148 iP 43 07.77 -0.5
 SUA 1.29 116 iP 43 12.45 -0.5
 iS 43 31.79
 CUT 1.40 74 eP 43 13.71 -1.1
 SVW 1.51 232 iPd 43 15.10 -1.3
 RDT 1.52 166 iP 43 16.64 0.0
 eS 43 37.51
 TTA 1.59 305 iPd 43 14.90 -2.8
 NKA 1.60 144 eP 43 19.77 2.1
 RSO 1.60 173 eP 43 17.75 -0.1
 PWA 1.61 103 eP 43 16.96 -0.8
 MUR 1.88 59 eP 43 20.50 -1.3
 eS 43 45.98
 PMS 1.90 113 iP 43 21.89 -0.1
 iS 43 46.30
 PLRM 1.97 102 eP 43 22.06 -0.9
 eS 43 47.20
 PMR 1.97 102 ePd 43 22.20 -0.8
 GHO 2.02 96 eP 43 23.02 -0.9
 eS 43 46.73
 SLKM 2.10 136 eP 43 24.47 -0.4
 >NNL 2.21 155 eP 43 27.72 1.3
 SML 2.30 94 eP 43 27.44 -0.4
 RND 2.41 54 eP 43 27.70 -1.8
 MCK 2.57 47 eP 43 30.28 -1.4
 SEW 2.65 136 eP 43 33.63 0.8
 eS 44 09.59
 AUH 2.69 183 eP 43 39.13 5.6
 AUE 2.70 182 eP 43 33.34 -0.1
 CNPM 2.70 159 eP 43 32.84 -0.7
 SCM 2.77 92 eP 43 34.55 0.0
 iS 44 10.97
 CDD 3.13 185 eP 43 39.10 -0.6
 GLI 3.14 109 eP 43 37.71 -2.0
 NEA 3.14 34 eP 43 36.79 -2.9
 TOA 3.29 86 eP 43 41.90 0.0
 VZW 3.31 104 eP 43 40.97 -1.3
 WRH 3.34 41 eP 43 39.24 -3.4
 MTU 3.38 125 eP 43 40.47 -2.8
 VLZ 3.39 103 eP 43 41.94 -1.4
 KLU 3.49 96 eP 43 43.62 -1.1
 CCB 3.56 40 eP 43 42.19 -3.4
 SDG 3.59 79 eP 43 46.14 0.0
 HDA 3.67 47 eP 43 45.49 -1.9
 FBA 3.74 38 eP 43 45.20 -3.1
 DDM 3.77 59 eP 43 46.76 -2.0
 GLM 3.92 39 eP 43 47.91 -3.1
 IMA 4.05 357 ePc 43 48.90 -3.8
 KDC 4.32 175 eP 43 56.80 0.3
 DOT 4.47 65 eP 43 55.75 -2.9
 GLB 4.49 94 eP 43 57.24 -1.7
 TMW 4.86 70 eP 44 02.63 -1.5
 TGL 5.13 100 eP 44 06.30 -1.8
 BALM 5.27 96 eP 44 07.74 -2.4

FYU 5.70 34 eP 44 14.13 -1.9
 ANM 6.06 300 eP 44 17.00 -3.2
 DWY 6.56 66 P 44 25.50 -2.6
 INK 10.33 44 P 45 17.00 -3.5
 56 obs. associated

? OCT 08, 1990 21h 48m 11.62±2.02s
 11.582 S ± 20.6km 117.483 E ± 30.7km
 DEPTH = 33.0km (normal)
 3.9mb (1 obs.)

SOUTH OF SUMBAWA ISLAND (291)

TRT 6.14 308 ePc 49 42.30 -0.1
 MBL 9.79 167 iPc 50 31.90 -1.3
 0.3s 19.00nm 5.8mb X
 eS 52 11.00
 NANU 11.08 189 eP 50 50.50 -0.4
 0.3s 3.00nm 5.0mb X
 eS 52 42.00
 MEKA 14.99 176 eP 51 42.00 -0.8
 eS 54 16.00
 WARB 16.90 151 iPd 52 08.00 0.7
 0.3s 3.00nm 3.9mb
 eS 55 07.00
 MRWA 17.60 184 eP 52 18.00 1.9
 eS 55 16.00

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

? OCT 08, 1990 21h 55m 41.24±1.35s
 40.668 N ± 9.6km 29.966 E ± 9.4km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.5 (ISK).

HRT 0.27 304 ePg 55 47.00 0.0
 eSg 55 51.50
 GPA 0.46 145 ePg 55 50.30 -0.3
 eSg 55 57.30
 YLV 0.46 250 iPg 55 50.10 -0.6
 iSg 55 57.60
 IZI 0.50 229 ePg 55 51.10 -0.3
 CTT 1.26 293 ePn 56 04.60 0.0
 DST 1.48 224 ePn 56 09.00 1.1
 S.D. = 0.8 on 6 of 6 obs.

OCT 08, 1990 22h 04m 32.39±0.89s
 36.683 N ± 9.7km 22.030 E ± 7.5km
 DEPTH = 33.0km (normal)
 3.6mb (1 obs.)

SOUTHERN GREECE (368)
 ML 3.3 (ATH).

ITM 0.50 351 ePg 04 42.20 -0.9
 VLI 0.73 07 ePg 04 44.00 -2.2
 ATH 1.86 46 ePb 05 03.20 0.7
 VLS 1.88 323 ePn 05 07.50 4.7X
 VAM 2.17 125 ePn 05 07.50 0.6
 EVR 2.24 356 ePb 05 12.50 4.6X
 APE 2.83 81 ePn 05 16.00 -0.3
 NPS 3.23 115 ePb 05 25.60 3.6X
 KEK 3.50 331 ePb 05 32.20 6.4X
 KZN 3.62 357 ePn 05 28.20 0.6
 PLG 3.85 16 ePn 05 32.00 1.3
 KAP 4.32 104 ePn 05 37.50 0.1
 OHR 4.52 348 ePn 05 45.00 4.6X
 ARG 4.94 94 ePn 05 46.20 0.0
 SKO 5.30 355 ePn 05 51.00 -0.3
 CZI 5.30 300 P 05 51.10 -0.2
 eSn 06 45.60
 CSI 5.47 306 P 05 54.50 0.7
 KSL 6.12 93 ePn 06 04.00 1.1
 MGR 6.14 306 P 06 00.00 -3.2X
 SGO 6.53 308 P 06 00.00 -8.6X
 HFS 24.07 350 eP 09 43.20 -2.2X
 2.0s 150.70nm 5.2mb X
 NB2 25.33 348 P 09 56.20 -1.3
 0.5s 0.80nm 3.6mb
 S.D. = 1.1 on 14 of 22 obs.

OCT 08, 1990 22h 47m 28.42±0.35s
 39.020 N ± 3.7km 23.602 E ± 3.5km
 DEPTH = 10.3 ± 2.5 km
 AEGEAN SEA (365)
 ML 3.6 (ATH), 3.5 (THE).

AGG 0.99 270 ePc 47 45.80 -1.4
 iS 47 59.64

08d 22h

[illegible]

1.1s	48.85nm					JFO	22.89	95	eP	39	53.00	0.2			Sn	43	37.50			
LPO	146.49	342 ePKP	22	58.40	1.7				eP	40	09.10	71kmX	TTG	1.70	182	ePq	43	12.30	0.3	
1.1s	48.85nm					SOB1	28.69	69	eP	40	45.60	-0.9			eSg	43	35.00			
BCAO	147.87	257 iPKPc	22	59.50	-0.3				e	41	27.50	208kmX	HCY	1.78	200	ePn	43	14.50	1.2	
0.9s	35.00nm					JSC	56.78	347	P	44	30.50	-1.4			eSn	43	40.00			
	ic	23	47.00			PRM	56.84	346	P	44	30.80	-1.5	BDV	1.88	191	ePn	43	16.30	1.6	
EPF	148.25	342 ePKP	23	04.60	5.0X	TKL	58.67	345	P	44	42.80	-2.4			eSn	43	43.00			
CAI	148.83	128 ePKP	23	04.40	3.1X	GBTN	58.79	345	P	44	43.50	-2.5	ULC	2.16	182	ePn	43	20.50	1.7	
ECRI	149.44	345 iPKPc	23	07.60	6.1X	NAV	59.62	348	P	44	50.50	-1.2			eSn	43	48.50			
EMON	149.57	352 ePKP	23	07.10	5.5X	OLY	60.81	338	P	44	57.00	-2.7	KKS	2.20	158	ePn	43	20.70	1.4	
EROO	150.21	340 e(PKP)	22	59.40	-3.2X	ELC	61.70	341	P	45	03.30	-2.4	BZS	2.21	47	iPc	43	19.50	0.1	
STS	150.26	354 iPKPc	23	08.80	6.2X				pP	45	37.50	143km	HVAR	2.30	247	iPnc	43	22.50	1.8	
ERUA	150.57	351 ePKP	23	10.10	7.0X	FVM	62.72	340	P	45	10.20	-2.2			iSn	43	52.40			
ETOR	150.99	343 iPKPc	23	11.00	7.1X				pP	45	45.00	146km	LACI	2.50	173	P	43	45.70	22.1X	
GUD	151.70	346 iPKPc	23	12.90	7.9X	TUL	62.78	335	iPc	45	11.80	-1.1	SKO	2.65	144	iPn	43	25.20	-0.6	
TOL	152.39	345 iPKPd	23	15.00	9.1X	1.0s	13.70nm					4.8mb			iPq	43	30.50			
1.0s	60.00nm					SIO	62.85	334	iP	45	07.30	-6.0X			i	43	32.20			
EPLA	152.66	349 ePKP	23	14.70	8.4X	ALO	66.89	326	eP	45	38.90	-0.7			i	43	33.60			
EVIA	153.14	342 iPKP	23	16.30	9.2X	1.0s	12.00nm					4.7mb			iSn	43	54.00			
S.D. = 1.0	on 90	of 125	obs.						e	46	14.00	145km			iSb	43	58.00			
						ANMO	66.89	326	P	45	39.20	-0.4			iSg	43	59.00			
& OCT 08, 1990	23h	33m	18.98s			1.0s	12.19nm					4.7mb			i	44	02.50			
63.368 N			150.044 W			LIC	67.48	73	Pc	45	43.54	0.0	ZAG	2.92	307	ePn	43	38.50	9.0X	
DEPTH = 5.4km						0.6s	13.50nm					5.0mb			i	44	02.50			
CENTRAL ALASKA					(1)	TIC	67.67	73	Pc	45	44.82	0.1			Lg	44	16.00			
<AGS-P>. ML 2.9 (PMR).						0.9s	19.50nm					5.0mb			iSn	44	14.70			
						KIC	67.80	73	Pc	45	45.78	0.3	DEV	3.08	54	ePc	43	35.00	3.1X	
						0.6s	43.50nm					5.4mb			iPn	43	34.20	0.6		
HUR	0.43	155 iP	33	27.37	-0.3	GLD	70.07	330	P	45	59.70	0.6	OHR	3.20	160	iPn	43	22.60		
		iS	33	33.06		GOL	70.10	330	P	45	58.50	-0.9			Lg	44	31.00			
RND	0.54	85 eP	33	29.11	-0.7	1.0s	10.63nm					4.6mb			e(Pn)	43	43.40	9.7X		
		iS	33	36.53		MSU	72.59	325	P	46	15.00	0.7			e(Sn)	44	34.30			
MCK	0.62	53 iP	33	30.62	-0.7	RSSD	73.08	334	P	46	16.60	-0.4	VTS	3.22	117	eP	43	34.00	0.1	
CUT	0.97	186 iP	33	37.35	-0.5	ABL	74.14	318	P	46	23.90	0.6	BUD	3.37	356	eP	43	36.20	0.3	
		eS	33	50.42		DUG	74.16	326	P	46	23.80	0.6	KKB	3.56	128	iPc	43	39.00	0.3	
NEA	1.29	19 eP	33	42.55	-0.7	BW06	74.47	329	P	46	24.00	-1.1	DRA	3.57	79	eP	43	59.00	20.2X	
		eS	34	00.21		1.3s	8.88nm					4.3mb		VLO	3.66	178	ePn	43	49.40	9.4X
WRH	1.40	37 eP	33	44.36	-0.8	BCH	74.89	318	P	46	28.40	0.9	FNA	3.67	155	iPc	43	59.74	19.5X	
SKT	1.55	207 iP	33	47.24	0.0	TNP	75.09	322	P	46	28.90	0.2			iS	44	08.85			
CCB	1.62	37 eP	33	47.53	-0.7	0.9s	5.53nm					4.3mb		RIY	3.73	291	iPnd	43	43.20	2.2
GHO	1.68	162 eP	33	48.76	-0.5	PHAM	75.51	318	P	46	31.70	0.8	SRO	3.76	349	ePn	43	39.80	-1.6	
PWA	1.73	177 eP	33	50.57	0.8	PRI	75.87	318	ePc	46	34.50	1.5			i	44	28.20			
SML	1.75	152 eP	33	49.77	-0.5	PRS	76.43	318	ePc	46	36.90	0.9			i	44	42.60			
FBA	1.83	32 eP	33	52.20	1.0	CMB	76.93	320	eP	46	39.70	0.9	PSZ	3.82	6	iP	43	42.10	-0.3	
PLRM	1.83	166 eP	33	51.00	-0.3	ARN	77.18	319	P	46	41.00	0.8	TNR	3.83	65	ePc	43	55.00	12.5X	
		eS	34	15.15		GCC	77.26	318	ePc	46	42.00	1.5	CEY	3.84	297	ePn	43	44.30	1.6	
PMR	1.83	166 eP	33	50.90	-0.4	BRK	77.96	319	eP	46	45.80	1.5			e(Sg)	44	52.50			
SCM	1.99	140 eP	33	54.36	0.7	LRM	78.13	330	eP	46	46.40	0.9	TPE	3.86	172	ePn	43	47.50	4.6X	
GLM	2.00	34 eP	33	53.52	-0.3	ORV	78.57	321	ePc	46	49.40	1.7	PCB	3.86	112	eP	43	35.00	-8.0X	
PMS	2.14	174 eP	33	56.91	1.0	WDC	79.84	321	ePc	46	54.20	-0.3	GRG	3.90	143	ePc	43	43.13	-0.3	
TOA	2.19	124 iPc	33	57.80	1.3	LBFM	79.95	322	P	46	55.80	0.4			eS	43	58.00			
NCG	2.20	207 eP	33	57.14	0.3	DPW	82.35	329	P	47	08.30	0.8	LJU	3.90	301	ePn	43	40.00	-3.5X	
SDG	2.22	110 eP	33	56.99	0.0	RMW	83.87	327	P	47	15.30	0.0			e	43	45.00			
CGLM	2.26	205 eP	33	58.93	1.3	BMW	83.98	325	P	47	16.50	0.6			e	43	57.00			
CRP	2.33	206 eP	33	59.75	1.1	PNT	84.02	329	eP	47	17.00	1.1			eSg	44	50.00			
BGL	2.38	208 eP	34	01.32	2.0	MAW	84.19	163	iPd	47	20.10	3.6X	LCI	3.92	196	P	43	42.00	-1.8	
SPU	2.39	204 eP	34	01.56	2.2	MCW	85.19	327	P	47	22.40	0.6	KNT	3.96	137	ePd	43	45.14	0.8	
CKL	2.43	207 eP	34	01.38	1.3	YKA	91.37	340	eP	47	51.20	0.4			eS	44	50.26			
KLU	2.69	133 eP	34	04.51	0.8	0.7s	12.60nm					5.2mb	SOP	4.05	332	eP	43	48.60	3.1X	
VLZ	2.84	141 eP	34	06.22	0.5	WB5	133.56	210	ePKP	54	04.00	1.7	KZN	4.22	154	ePn	43	46.70	-1.5	
GLI	2.86	150 eP	34	06.75	0.7	GBA	146.14	97	PKP	54	26.00	1.0	CMP	4.23	72	ePd	44	02.00	13.8X	
SLKM	2.87	182 eP	34	07.84	1.6	HYB	148.18	91	ePKP	54	41.00	12.7X	MTUR	4.23	73	eP	43	49.00	0.7	
IMA	3.13	332 eP	34	09.80	-0.1	MAT	152.70	309	ePKP	54	44.00	9.5X	TRI	4.26	294	ePn	43	49.80	1.2	
30 obs. associated						1.0s	12.00nm								iPq	44	03.60			
						S.D. = 1.2	on 54	of 60	obs.						iSn	44	37.50			
OCT 08, 1990	23h	35m	00.77 ± 0.31s										VOY	4.30	298	ePnc	43	50.20	1.0	
21.377 S ± 4.9km			67.936 W ± 7.9km			OCT 08, 1990	23h	42m	42.24 ± 0.29s						e(Sn)	44	39.00			
DEPTH = 144.5km (3 depth phases)						44.125 N ± 3.1km			19.330 E ± 3.1km				DUI	4.34	237	P	43	51.00	1.1	
4.8mb (10 obs.)						DEPTH = 10.0km (geophysicist)							SRS	4.35	132	ePd	44	03.46	13.6X	
CHILE-BOLIVIA BORDER REGION					(124)	YUGOSLAVIA							ZST	4.36	340	ePn	43	49.80	-0.1	
						ML 3.8 (ZAG), 3.5 (TTG), MD 4.0									e	13	09.20			
ANT	3.26	224 iP	35	51.50	-0.3	(TRI), 3.6 (ATH). Felt at									i	43	57.60			
		iS	36	26.00		Srebrenico.									i	44	01.50			
CCH	4.32	23 iPc	36	08.00	1.8								PLE	0.80	177	ePq	42	56.30	-1.5	
CNCB	4.54	359 iPc	36	09.80	0.4										eSg	43	05.50			
LPB	4.82	358 Pc	36	14.00	1.0								BEO	1.06	49	iPq	43	04.00	1.7	
1.0s	280.00nm														iSg	43	19.00			
ZOBO	5.08	358 iPc	36	16.00	-0.7								IVA	1.32	162	ePq	43	05.50	-1.2	
ARE	5.93	325 eP	36	23.00	-4.8X										eSg	43	22.50			
		iS	37	22.70									NKY	1.33	191	ePq	43	06.40	-0.5	
RTLL	9.92	183 ePc	37	19.70	-1.3										eSg	43	25.20			
RTCB	10.10	184 eP	37	23.30	0.0								BRY	1.35	205	iPgq	43	06.50	-0.7	
RTBS	10.33	187 e(P)	37	26.00	-0.3										iSg	43	26.00			
RTCV	10.46	183 e(P)	37	27.80	-0.2								PVY	1.60	163	ePq	43	11.00	0.2	
MDZ	11.49	184 eP	37	46.70	5.1X										eSg	43	32.00	</		

	i	44	37.00			Felt in the Kerman area.	WB5	48.00	258 iPc	06	33.10	-0.8
	i	44	44.20				ASPA	48.25	253 iPc	06	35.60	-0.2
	iSn	44	46.30					0.7 s	105.30nm			5.2mb
	i	45	03.20			MAIO	6.41	15 ePn	16	12.00	0.4	
							0.8 s	6.59nm		4.4mb		
RZN	4.65 120 eP	43	53.00	-1.3			eSn	17	25.00			
SGO	4.65 221 P	43	54.50	0.4	TEH	7.56	319 e(P)	16	30.00	2.2		
LIT	4.66 149 iPd	43	53.90	-0.4	QUE	8.25	87 eP	16	37.20	-0.2		
	eS	44	11.17				eS	18	57.10			
SDI	4.72 241 P	43	57.00	1.8	TAB	12.14	314 e(P)	17	50.00	19.4X		
BSS	4.72 227 P	43	55.30	0.1	NDI	17.31	90 eP	18	36.00	-1.6		
AZI	4.82 242 P	44	00.00	3.5X	GLH	18.76	284 eP	18	59.00	3.5X		
PLG	4.84 139 ePb	43	56.30	-0.5	JVI	19.01	281 eP	19	00.50	2.0		
MGR	4.87 216 P	43	57.00	-0.3	M8H	19.54	275 eP	19	05.50	0.8		
MLR	4.90 72 eP	44	00.00	2.2	BBTK	22.36	302 iPd	19	37.00	3.4X		
CSI	4.90 209 P	43	58.00	0.3	HYB	23.05	118 eP	19	42.50	2.1		
ASS	4.96 260 P	44	01.50	3.0X	GKN	23.86	88 P	19	47.40	-1.0		
TDS	4.99 208 P	44	00.00	1.1	ALT	24.12	299 iP	19	53.90	3.1X		
DIM	4.99 112 eP	44	25.00	26.0X	KKN	24.46	89 P	19	54.40	0.1		
ROI	5.00 205 P	43	59.50	0.5	PKI	24.62	89 P	19	55.80	-0.2		
KDZ	5.11 117 iPd	44	13.00	12.3X	GBA	24.73	127 Pd	19	56.40	-0.3		
CVO	5.14 68 eP	44	26.00	24.8X		0.8 s	2.70nm			3.9mb		
MMS	5.16 253 P	44	03.50	2.1	GUN	24.95	88 P	19	59.80	0.6		
FVI	5.23 300 Pd	44	03.60	1.3	WMQ	27.61	52 eP	20	22.60	-0.7		
	eSn	45	06.00		KRA	34.43	316 eP	21	24.60	1.3		
ISR	5.25 76 eP	44	13.50	10.9X			e	21	29.10			
CRE	5.36 267 P	44	06.60	2.3	SGO	35.61	299 P	21	34.00	0.6		
SFI	5.40 270 P	44	07.50	2.8	GTA	35.76	63 eP	21	35.40	0.5		
CZI	5.46 207 P	44	03.30	-2.2	KHC	38.11	312 eP	21	56.20	1.8		
RDO	5.46 121 ePn	44	06.00	0.4	CLL	39.01	316 eP	22	03.00	1.1		
PGD	5.49 270 P	44	12.00	5.7X		1.0 s	15.00nm			4.7mb		
EVR	5.53 159 ePn	44	07.50	0.8	CHG	39.23	97 eP	22	06.90	2.7X		
VRI	5.53 69 eP	44	16.00	9.4X	CHTO	39.23	97 eP	22	06.20	2.1		
BHG	5.76 311 eP	44	10.70	0.9		1.0 s	2.50nm			3.9mb		
CTI	5.77 292 P	44	10.50	0.5	SOTA	39.29	309 iPc	22	04.30	-0.2		
KRA	5.95 4 eP	44	49.00	36.6X		0.5 s	7.90nm			4.7mb		
	e	44	55.10				id	22	04.60			
KHC	6.38 324 ePn	44	19.10	0.5	HFS	41.79	329 eP	22	25.80	1.1		
	ePg	44	28.40			0.5 s	0.80nm			3.7mb		
	eSg	45	35.00		LPG	42.18	306 eP	22	27.00	-1.4		
SOTA	6.48 301 iPnc	44	21.70	1.6		0.7 s	3.85nm			4.2mb		
	0.4 s	14.70nm		5.3mb X	LPL	42.19	306 eP	22	27.10	-1.4		
	iPgPg	44	56.30			0.7 s	4.95nm			4.3mb		
	i	44	59.00		BN1	42.21	305 P	22	28.00	-0.5		
	iSn	45	39.10		DOU	44.03	312 P	22	44.90	1.9		
	i	46	26.60			0.5 s	4.60nm			4.5mb		
MFT	6.76 117 eP	44	40.00	16.0X	LBF	44.18	308 eP	22	43.40	-1.0		
KGT	6.96 119 iP	44	25.10	-1.6		0.6 s	3.15nm			4.3mb		
MDI	7.02 287 P	44	27.00	-0.5	SMF	44.26	307 eP	22	43.60	-1.4		
KSP	7.03 344 ePn	44	28.00	0.4		0.7 s	3.85nm			4.3mb		
	iPg	44	47.80		LOR	44.28	308 eP	22	43.50	-1.6		
	eS	45	41.50			0.6 s	2.70nm			4.2mb		
BRG	7.67 334 e(P)	45	10.00	33.4X	SSF	44.51	308 eP	22	45.80	-1.2		
	e	45	23.00			0.6 s	4.50nm			4.5mb		
	e	46	22.00		BCAO	44.70	243 iPc	22	48.50	-0.4		
	e	47	03.00			0.4 s	5.00nm			4.7mb		
PGF	7.70 262 eP	44	38.00	0.9	MAF	45.13	307 eP	22	51.00	-1.0		
PCP	7.75 277 P	44	36.49	-1.3	TCF	45.38	307 eP	22	53.00	-1.0		
GRF	7.86 318 ePn	44	38.40	-0.9		0.6 s	3.15nm			4.4mb		
FIN	8.00 274 P	44	39.36	-1.9	TIY	45.72	65 eP	22	57.00	0.2		
ORX	8.20 285 P	44	42.64	-1.6	RJF	45.86	305 eP	22	57.10	-0.7		
ROB	8.24 275 P	44	42.84	-1.8		1.0 s	14.00nm			4.8mb		
MOX	8.36 324 e(P)	44	52.00	5.7X	LFF	46.42	305 eP	23	01.40	-0.7		
	eSg	46	46.00			0.6 s	9.00nm			4.9mb		
SBF	8.58 272 eP	44	48.60	-0.9	LDF	47.00	310 eP	23	04.40	-2.3		
	0.4 s	8.00nm		5.4mb X	KIC	62.80	261 P	25	01.90	0.0		
LPG	9.05 283 eP	44	55.40	-0.7	TIC	62.90	262 P	25	02.60	0.0		
	0.3 s	1.30nm		4.8mb X	LIC	63.12	261 P	25	04.00	0.0		
LPL	9.06 283 eP	44	55.40	-0.8		S.D. = 1.2 on 39 of 44 obs.						
	0.3 s	1.70nm		4.9mb X								
FRF	9.19 271 eP	44	55.00	-2.7								
	0.5 s	4.35nm		5.1mb X								
LMR	9.32 270 eP	44	58.00	-1.5								
CDF	9.38 301 eP	44	58.60	-1.9								
LRG	9.41 270 eP	44	50.40	-2.3								
BSF	9.48 297 eP	45	00.40	-1.5								
	0.3 s	4.25nm		5.3mb X								
HAU	9.82 298 eP	45	05.00	-1.5								
	0.3 s	3.40nm		5.3mb X								
Z	19 s	0.08um										
LBF	11.14 290 eP	45	22.90	-1.7								
	S.D. = 1.3 on 76 of 106 obs.											

LPG 150.92 357 iPKPc 17 42.10 7.5X
0.8s 6.70nm
BNI 151.36 357 PKP 17 42.00 6.9X
SGO 154.26 342 PKP 17 40.00 1.0
S.D. = 0.9 on 32 of 67 obs.

OCT 09, 1990 01h 15m 39.01±0.31s
40.264 N ± 3.8km 25.188 E ± 2.8km
DEPTH = 7.8 ± 2.4 km

AEGEAN SEA (365)
ML 3.5 (THE). MD 3.4 (ATH).

ALN	0.91	46	iPc	15	56.92	0.3
			iS	16	08.50	
RDO	0.92	17	iPnc	15	57.00	0.2
EZN	0.98	116	iPg	15	58.00	0.3
PRK	1.32	140	iPnd	16	03.70	0.2
PLG	1.34	275	ePn	16	04.00	0.1
KDZ	1.40	7	iPc	16	10.00	5.2X
RZN	1.47	346	iPc	16	06.00	0.1
SRS	1.48	306	ePd	16	06.40	0.4
			eS	16	24.36	
SOH	1.50	292	ePd	16	06.88	0.5
			eS	16	26.68	
KGT	1.63	83	iPn	16	07.50	-0.6
MFT	1.68	71	iPn	16	08.50	-0.4
THE	1.74	283	iPc	16	10.00	0.4
			iS	16	36.00	
DIM	1.80	8	eP	16	11.00	0.4
PLD	1.87	349	eP	16	14.00	2.4X
KNT	1.96	298	iPc	16	13.54	0.7
			eS	16	36.92	
EDC	2.05	87	iPn	16	15.90	1.7
LIT	2.07	266	iPc	16	14.50	-0.1
BNT	2.09	87	iPn	16	17.00	2.2
GRG	2.23	289	iPd	16	17.74	0.9
			iS	16	42.97	
KKB	2.26	316	eP	16	17.00	-0.2
PGB	2.41	342	eP	16	19.00	-0.4
JMB	2.44	25	eP	16	25.00	5.2X
IZM	2.46	139	iPn	16	20.00	-0.2
DMK	2.49	50	ePn	16	19.00	-1.5
AGG	2.53	242	iPc	16	20.00	-0.3
KZN	2.61	272	ePn	16	22.70	0.3
CTT	2.62	69	ePn	16	20.50	-1.8
DST	2.73	103	iPn	16	23.50	-0.5
VTS	2.76	328	eP	16	27.00	2.5X
FNA	2.95	281	iPc	16	27.40	0.3
PVL	2.95	2	iPd	16	26.00	-1.0
YLV	3.21	83	iPn	16	37.50	6.7X
IZI	3.28	87	ePn	16	35.50	3.7X
GBZT	3.29	79	ePn	16	44.00	12.2X
SKO	3.31	302	eP	16	35.50	3.4X
OHR	3.44	286	ePn	16	34.80	0.7
HRT	3.46	79	ePn	16	42.00	7.7X
VLI	3.96	207	ePn	16	40.00	-1.3
ALT	3.99	106	ePn	16	41.90	0.0
ITM	4.00	221	ePn	16	40.00	-1.9
PSN	4.08	32	eP	16	47.00	4.0X
ISR	4.97	11	eP	17	01.00	5.2X
MLR	5.25	6	ePd	16	59.50	-0.4
CVO	5.60	7	eP	17	12.00	7.3X
VRI	5.71	11	ePc	17	06.00	-0.2
BZS	5.96	335	ePc	17	07.50	-2.1
KAS	6.60	78	eP	17	06.00	-12.9X

S.D. = 1.0 on 34 of 47 obs.

OCT 09, 1990 01h 16m 27.97±0.57s
43.356 N ± 4.5km 0.612 W ± 5.3km
DEPTH = 10.0km (geophysicist)

PYRENEES (378)
ML 2.6 (LDG).

OGE	0.21	152	Pg	16	33.12	0.5
MADF	0.26	216	Pg	16	33.83	0.4
			Sg	16	39.66	
ATE	0.28	194	Pg	16	34.29	0.5
			Sg	16	40.76	
ESCF	0.28	174	Pg	16	34.11	0.3
ELYF	0.33	236	Pg	16	34.48	-0.4
			Sg	16	41.70	
ISSF	0.35	202	Pg	16	35.30	0.0
			Sg	16	43.39	
JAU	0.36	151	Pg	16	35.00	-0.5
BOH	0.39	229	Pg	16	35.48	-0.5
LHE	0.44	181	Pg	16	37.12	0.1
EPF	0.77	115	Pg	16	42.40	-0.6

LPO	1.86	44	Pg	16	54.30	-1.2
			Sg	17	21.40	
LFF	1.86	31	Pg	16	59.90	-0.2
			Sg	17	21.10	
RJF	2.48	37	Pg	17	10.70	1.7
			Sg	17	39.80	
CAF	2.48	50	Pg	17	11.70	2.6X
			Sg	17	41.30	
MFF	3.26	6	Pg	17	24.50	4.3X
			Sg	18	03.50	

S.D. = 0.8 on 13 of 15 obs.

OCT 09, 1990 01h 24m 26.25±0.32s
40.293 N ± 3.6km 25.216 E ± 2.5km
DEPTH = 16.4 ± 3.5 km

AEGEAN SEA (365)
ML 3.1 (THE).

ALN	0.87	46	ePd	24	42.68	0.1
			iS	24	56.82	
RDO	0.89	16	iPc	24	42.70	-0.1
EZN	0.97	118	iPg	24	43.90	-0.3
PRK	1.32	142	eP	24	49.70	-0.3
			eS	25	07.50	
PLG	1.36	274	eP	24	49.80	-0.7
KDZ	1.36	6	iPg	24	50.00	-0.5
RZN	1.44	345	eP	24	52.00	0.2
			S	25	13.00	
SRS	1.48	304	iPc	24	52.30	0.0
			eS	25	14.78	
SOH	1.51	291	ePc	24	53.02	0.3
			iS	25	16.82	
KGT	1.60	84	iPn	24	53.50	-0.4
MFT	1.65	72	iPn	24	55.00	0.3
MMB	1.72	319	ePc	24	56.00	0.3
THE	1.75	282	iPc	24	59.00	2.9X
DIM	1.77	8	eP	25	00.00	3.6X
PLD	1.85	348	eP	25	03.00	5.5X
KNT	1.96	297	ePc	24	59.62	0.4
			iS	25	23.94	
EDC	2.02	88	iPn	25	02.90	2.0X
BNT	2.07	87	ePn	25	01.50	0.8
LIT	2.10	266	ePd	25	00.66	-0.5
			iS	25	28.77	
KKB	2.25	315	eP	25	42.00	38.6X
PGB	2.39	341	eP	25	05.00	-0.3
JMB	2.40	25	eP	25	11.00	5.5X
DMK	2.45	51	ePn	25	07.00	0.8
IZM	2.47	139	ePn	25	06.40	-0.1
CTT	2.59	70	ePn	25	07.50	-0.6
KZN	2.63	271	eP	25	09.70	0.8
DST	2.71	104	ePn	25	10.00	0.0
VTS	2.75	327	eP	25	18.00	7.4X
PVL	2.92	2	eP	25	12.00	-0.8
YLV	3.18	84	ePn	25	23.00	6.3X
IZI	3.25	88	ePn	25	18.00	0.3
HRT	3.43	80	ePn	25	29.00	8.8X

S.D. = 0.5 on 23 of 32 obs.

% OCT 09, 1990 01h 53m 18.52±0.85s
39.592 N ± 7.3km 27.765 E ± 7.1km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.7 (ISK).

DST	0.67	89	iPg	53	30.50	-1.3
			iSg	53	39.50	
EDC	0.76	6	iPg	53	31.90	-1.4
BNT	0.77	9	iPg	53	32.50	-1.1
			iSg	53	42.50	
KCT	0.80	35	iPg	53	33.00	-1.0
			iSg	53	44.00	
KGT	0.93	338	iPg	53	36.00	-0.2
			iSg	53	50.00	
EZN	1.14	282	ePn	53	40.20	0.4
MFT	1.25	343	ePn	53	43.00	1.2
IZM	1.25	198	ePn	53	41.40	-0.5
IZI	1.51	60	ePn	53	46.50	0.8
YLV	1.57	51	iPn	53	47.50	0.9
CTT	1.63	18	ePn	53	47.00	-0.4
HRT	1.91	49	ePn	53	54.00	2.6

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

% OCT 09, 1990 02h 10m 14.35±0.85s
39.583 N ± 6.4km 27.762 E ± 7.9km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.7 (ISK).

DST	0.67	88	iPg	10	26.50	-1.2
			iSg	10	35.50	
EDC	0.77	6	iPg	10	27.90	-1.4
			eSg	10	37.90	
BNT	0.78	9	iPg	10	29.10	-0.5
KCT	0.81	34	iPg	10	29.00	-1.0
			iSg	10	40.00	
KGT	0.94	338	iPg	10	32.50	0.3
			iSg	10	45.50	
IZM	1.25	198	ePn	10	37.40	-0.1
MFT	1.26	343	ePn	10	38.00	0.2
IZI	1.52	60	ePn	10	42.00	0.4
YLV	1.58	51	iPn	10	43.50	1.0
CTT	1.64	18	ePn	10	44.00	0.6
HRT	1.91	49	ePn	10	49.00	1.7

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

* OCT 09, 1990 02h 52m 09.65±0.76s
29.161 S ± 7.1km 71.219 W ± 13.5km
DEPTH = 166.4 ± 19.7 km
4.5mb (1 obs.)

NEAR COAST OF CENTRAL CHILE (135)

RTBS	2.92	149	ePd	52	58.30	1.1
RTLL	3.21	133	ePd	53	00.00	-0.9
ZON	3.24	138	eP	53	02.00	0.8
RTCV	3.55	140	ePd	53	05.70	0.5
JACH	3.55	171	iPd	53	05.10	-0.2
			iS	53	52.50	
ROCH	3.80	177	eP	53	09.50	0.8
			iS	54	05.50	
PEL	4.00	174	ePc	53	10.50	-0.5
			i	53	59.50	
			i	54	07.70	
FCH	4.23	169	eP	53	15.70	1.4
			iS	54	16.00	
MDZ	4.23	152	iPc	53	16.70	2.6
			iS	54	18.50	
SAN	4.31	174	eP	53	14.00	-1.0
			e	54	07.50	
LCCCH	4.31	184	iPc	53	13.60	-1.4
			iS	54	18.00	
TACH	4.48	177	eP	53	17.00	-0.3
PCH	4.49	172	eP	53	17.50	0.1
			iS	54	12.50	
LVN	4.78	182	iPd	53	19.50	-1.7
			iS	54	20.50	
CYA	4.81	83	e(P)	53	19.00	-2.7
			S	54	15.00	
ANT	5.48	8	eP	53	31.00	0.6
CCH	12.62	23	(P)	55	05.00	0.3
ARE	12.64	359	eP	55	20.00	15.0X
CNCB	12.65	14	P	55	05.00	-0.4
LPB	12.89	14	eP	55	02.00	-6.4X
			e	55	53.00	
ZOBO	13.14	13	P	55	12.00	0.3
			Z	24s	0.15um	
			LR	59	44.00	
SIV	16.10	38	P	55	48.00	0.5
VAO	22.61	80	eP	56	57.00	0.0
			e	57	04.50	
			e	57	24.40	
TUL	68.74	339	eP	03	06.00	8.8X
			1.0s	7.70nm	4.5mb	
GBA	147.10	111	PKPd	11	45.70	13.2X
			0.6s	2.80nm		

S.D. = 1.3 on 21 of 25 obs.

% OCT 09, 1990 02h 56m 16.41±3.28s
33.650 S ± 8.4km 71.795 W ± 26.1km
DEPTH = 20.6 ± 8.7 km

NEAR COAST OF CENTRAL CHILE (135)

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09d 02h

PCH	1.07	89	iS	56 53.10	-0.2
			iPd	56 36.00	
			iS	56 53.00	
FCH	1.30	76	eP	56 39.50	-0.2
			iS	57 01.00	
JACH	1.40	47	iPd	56 41.00	0.1
			iS	57 01.50	

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

% OCT 09, 1990 02h 57m 20.30 ± 2.94s
39.562 N ± 21.1km 27.813 E ± 14.4km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.6 (ISK).

DST	0.63	86	iPg	57 33.00	0.0
			iSg	57 42.00	
EDC	0.79	3	ePg	57 35.40	-0.2
BNT	0.80	6	iPg	57 35.90	0.1
			iSg	57 45.90	
KCT	0.80	31	iPg	57 36.00	0.1
			iSg	57 47.00	
KGT	0.97	336	iPg	57 39.00	0.3
MFT	1.29	342	ePn	57 44.00	-0.2
IZI	1.49	58	iPn	57 49.50	2.3X

S.D. = 0.2 on 6 of 7 obs.

* OCT 09, 1990 03h 08m 11.50 ± 0.75s
33.320 N ± 0.2km 139.506 E ± 10.3km
DEPTH = 10.0km (geophysicist)
4.8mb (6 obs.)

SOUTH OF HONSHU, JAPAN (211)

IIDJ	2.53	329	iP+	08 53.10	-0.2
CHJJ	2.75	351	P	08 57.20	0.7
KAKJ	2.93	11	P	08 58.00	-0.9
			eS	09 33.10	
WKYJ	3.38	286	iP+	09 03.90	-1.5
			S	09 42.20	
MAT	3.39	342	eP	09 06.00	0.5
			(S)	09 48.00	
MTMJ	3.54	337	P	09 08.80	1.0
TSRJ	3.66	308	iPd	09 08.10	-1.2
NIJJ	3.93	354	P	09 13.50	0.3
MDJ	13.65	329	eP	11 28.00	0.6
BJI	19.85	296	eP	12 47.00	1.6

Z 16s 0.29um

GUMO	20.24	165	eP	13 07.20	17.5X
PJG	20.24	165	eP	13 07.20	17.5X
WHN	21.52	269	eP	13 06.50	3.0X
			pP	13 13.00	24kmX
HMC	23.46	297	eP	13 23.20	1.3
BTO	24.58	296	eP	13 34.00	1.2

N 13s 0.40um

E 13s 0.30um

XAN	25.42	280	P	13 40.00	-0.8
CD2	30.28	275	eP	14 26.60	1.5
CHTO	38.94	259	eP	15 37.20	-2.2
			1.0s	2.50nm	3.8mb
WMO	41.24	300	P	16 02.80	4.5X
ASPA	56.92	106	eP	17 59.60	0.4
			0.5s	3.30nm	4.6mb
INK	58.40	26	eP	18 07.00	-2.1
GBA	59.40	266	P	18 16.00	-0.7
			1.0s	8.50nm	4.8mb
MBC	60.52	16	eP	18 25.00	1.4
STK	64.88	178	eP	18 54.30	1.3
			1.8s	43.00nm	5.3mb
PNT	71.94	43	eP	19 41.00	4.1X
HFS	76.81	335	eP	20 02.10	-2.6
			1.1s	12.00nm	4.9mb
NB2	76.99	337	P	20 09.20	3.4X
			0.9s	6.50nm	4.7mb
LRM	77.91	43	eP	20 10.40	-1.0
CLL	83.51	329	e(P)	20 44.00	3.4X
ZOBO	149.05	62	PKP	28 03.20	3.6X
LPB	150.03	63	PKP	28 01.00	1.3
CNCB	150.30	63	PKP	28 04.00	3.7X
CCH	152.02	62	ePKP	28 14.00	11.5X
SIV	154.64	52	ePKP	28 08.00	2.2X

S.D. = 1.4 on 23 of 34 obs.

* OCT 09, 1990 03h 17m 13.20 ± 0.96s
40.247 N ± 9.8km 25.165 E ± 8.1km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

ML 2.9 (ATH). MD 2.9 (ISK).

RDO	0.94	17	ePb	17 30.70	-0.4
EZN	0.99	115	iPg	17 31.70	-0.2
PRK	1.31	139	ePb	17 37.50	0.0
PLG	1.32	276	ePb	17 37.70	0.1
KGT	1.65	82	iPn	17 41.00	-1.3
MFT	1.70	71	ePn	17 44.90	1.8
BNT	2.11	86	ePn	17 53.00	4.0X
DST	2.74	102	ePn	18 04.00	5.9X

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

OCT 09, 1990 03h 25m 11.99 ± 0.40s
40.203 N ± 3.7km 23.446 E ± 4.3km
DEPTH = 12.1 ± 3.2 km

GREECE (364)
ML 3.2 (THE). MD 3.2 (ATH).

PLG	0.17	360	iPbd	25 16.00	-0.1
THE	0.56	320	ePc	25 22.82	-0.5
			iS	25 31.00	
SOH	0.62	354	iPc	25 24.18	-0.1
			iS	25 32.26	
LIT	0.74	262	ePd	25 26.22	-0.1
			eS	25 37.21	
SRS	0.92	7	ePd	25 30.26	0.9
			iS	25 41.50	
KNT	1.04	337	ePd	25 32.06	0.5
			eS	25 46.30	
GRG	1.10	314	ePc	25 33.25	0.9
			eS	25 49.34	
KZN	1.29	275	ePb	25 35.20	-0.5
MMB	1.40	9	iPc	25 38.00	0.7
AGG	1.46	217	iPc	25 39.00	0.8
			eS	26 00.30	
KKB	1.68	351	eP	25 42.00	0.6
RZN	1.77	33	eP	25 43.00	0.3
			S	26 10.00	
EVR	1.80	225	ePn	25 43.00	-0.2
RDO	1.85	59	ePn	25 43.20	-0.5
KDZ	2.08	45	eP	25 47.00	-0.1
			iS	26 17.00	
PLD	2.12	26	eP	25 53.00	5.3X
OHR	2.21	295	ePn	25 50.00	1.0
ATH	2.24	175	ePn	25 49.30	-0.1
EZN	2.24	99	ePn	25 52.00	2.6
VTS	2.39	356	iPd	25 53.00	1.3
PGB	2.41	13	eP	25 57.00	5.2X
DIM	2.43	40	ePg	25 58.00	6.0X
KGT	2.96	84	ePn	25 59.00	-0.6
MFT	2.98	77	ePn	26 07.00	7.0X
ITM	3.24	202	ePn	26 05.00	1.3
JMB	3.27	45	eP	26 14.00	10.0X
PVL	3.33	25	eP	26 03.00	-1.8
VLI	3.50	187	ePn	26 06.60	-0.7

S.D. = 1.0 on 23 of 28 obs.

OCT 09, 1990 03h 33m 53.40 ± 1.12s
40.216 N ± 8.3km 23.447 E ± 6.3km
DEPTH = 10.0km (geophysicist)

GREECE (364)
ML 2.8 (THE).

PLG	0.16	359	iPg	33 56.60	-0.5
THE	0.56	319	ePd	34 04.60	-0.1
			eS	34 11.32	
SOH	0.61	353	ePc	34 05.36	-0.4
			eS	34 14.04	
LIT	0.74	261	ePc	34 07.80	-0.2
			eS	34 17.80	
SRS	0.91	7	iPd	34 11.50	0.7
			eS	34 24.84	
KNT	1.03	336	ePc	34 12.96	0.0
			eS	34 27.24	
GRG	1.09	313	iPc	34 14.50	0.6
			iS	34 30.00	
KZN	1.29	275	ePb	34 17.30	0.0
RDO	1.84	59	ePn	34 25.30	0.0
OHR	2.20	295	ePn	34 31.00	0.4
SKO	2.32	320	ePn	34 31.50	-0.7

S.D. = 0.5 on 11 of 11 obs.

% OCT 09, 1990 03h 45m 36.49 ± 1.02s
43.903 N ± 7.2km 7.450 E ± 9.2km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)

SBF	0.04	195	Pg	45 37.90	-0.8
			Sg	45 47.80	
IMI	0.32	88	P	45 44.21	1.1
			S	45 48.01	
ENR	0.32	356	P	45 43.29	0.0
			S	45 46.37	
STV	0.35	345	P	45 44.11	0.3
			S	45 47.60	
ROB	0.50	38	P	45 45.03	-1.5
			S	45 49.44	
PZZ	0.65	338	P	45 50.26	0.7
			S	45 57.95	

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

& OCT 09, 1990 04h 02m 26.10s
33.890 N 118.710 W
DEPTH = 14.0km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.2 (PAS). Felt (IV)
at Los Angeles and (II) at
Inglewood. Second event, ML 2.8
(NEIS), about one minute later.

PAS	0.52	60	eP	02 35.60	-0.8
CIS	0.55	152	ePd	02 36.70	-0.2
MWC	0.64	58	iPd	02 37.90	-0.7
SCI	0.92	171	eP	02 42.60	-0.7
ABL	1.05	336	eP	02 44.60	-1.0
PEC	1.29	89	eP	02 47.30	-2.3
BLP	1.55	296	eP	02 51.70	-1.6
PLM	1.63	109	eP	02 52.10	-2.6
BCH	1.72	319	eP	02 54.80	-1.0
PHAM	2.39	325	eP	03 03.70	-1.7
PRI	2.76	325	eP	03 09.00	-1.8
FRI	3.20	346	eP	03 16.80	-0.1
PRS	3.27	319	eP	03 16.60	-1.3
SAO	3.64	323	eP	03 20.50	-2.6
CMB	4.35	342	eP	03 32.00	-1.3
TNP	4.35	16	e(P)	03 40.00	6.5

16 obs. associated

& OCT 09, 1990 04h 13m 30.10s
37.278 N 121.683 W
DEPTH = 8.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 3.0 (BRK).

MHC	0.07	27	iPd	13 32.20	-0.1
ARN	0.14	59	iPd	13 32.70	-0.5
GCC	0.35	225	iPd	13 37.50	0.2
SAO	0.55	160	iPc	13 41.00	-0.1
PCC	0.60	292	iPc	13 41.50	-0.6
BKS	0.74	324	iPd	13 44.30	-0.5
			eS	13 56.00	
BRK	0.75	323	iPc	13 44.50	-0.5
			eS	13 56.30	
ZSP	0.81	326	iPc	13 45.70	-0.2
LLA	0.89	138	ePc	13 46.00	-1.3
PRS	0.90	165	e(P)	13 47.80	-1.1
CMB	1.28	53	iPc	13 52.60	-1.4
			iS	14 09.40	
NWRM	1.51	321	eP	13 55.50	-2.0
FRI	1.60	100	iPc	13 57.10	-1.7
			eS	14 16.30	

13 obs. associated

% OCT 09, 1990 04h 3

THE 0.55 325 ePd 40 42.02 -0.4
 SOH 0.64 358 iPc 40 42.94 -0.8
 eS 40 51.06
 LIT 0.69 263 ePc 40 44.46 0.0
 iS 40 51.82
 SRS 0.94 10 iPc 40 48.38 0.3
 eS 41 01.62
 KNT 1.04 339 ePd 40 50.34 0.9
 eS 41 05.62
 GRG 1.07 316 ePd 40 44.26 -5.7X
 eS 41 06.78

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

OCT 09, 1990 04h 42m 12.04 ± 0.68s
 40.312 N ± 5.7km 23.374 E ± 6.4km
 DEPTH = 5.0km (geophysicist)

GREECE (364)

ML 3.1 (THE).

PLG 0.08 41 iPd 42 13.50 -0.5
 THE 0.45 316 ePd 42 22.12 1.1
 eS 42 33.48
 SOH 0.51 358 ePc 42 22.88 0.6
 eS 42 35.64
 LIT 0.71 253 iPd 42 24.82 -1.4
 eS 42 39.48
 SRS 0.82 12 ePd 42 27.64 -0.8
 eS 42 46.08
 KNT 0.92 337 ePc 42 29.76 -0.4
 eS 42 49.68
 GRG 0.98 311 ePd 42 31.68 0.5
 iS 42 51.80
 KZN 1.23 270 ePd 42 35.50 0.1
 MMB 1.30 12 iPd 42 35.00 -1.7
 AGG 1.52 212 ePc 42 41.56 1.6
 eS 43 02.44
 KKB 1.57 352 eP 43 40.00 59.4X
 RZN 1.71 36 eP 42 44.00 1.2
 RDO 1.84 62 ePn 42 45.80 1.2
 EVR 1.84 221 ePg 42 45.70 1.0
 KDZ 2.04 48 eP 42 44.00 -3.5X
 PLD 2.05 29 eP 42 52.00 4.4X
 VTS 2.28 357 eP 42 56.00 4.9X
 PGB 2.31 15 eP 42 55.00 3.5X
 JMB 3.23 47 eP 43 18.00 13.6X
 PVL 3.25 26 eP 43 04.00 -0.7
 ITM 3.33 200 ePn 43 03.70 -2.1

S.D. = 1.3 on 15 of 21 obs.

? OCT 09, 1990 06h 11m 52.59 ± 1.77s
 21.733 S ± 14.4km 69.338 W ± 18.5km
 DEPTH = 10.0km (geophysicist)

NORTHERN CHILE (123)

CNCB 5.06 15 iPc 13 10.20 -0.7
 CCH 5.27 35 P 13 14.30 0.6
 i 13 19.30
 LPB 5.30 13 Pd 13 15.20 1.0
 1.0s 484.00nm 6.1mb X
 ZOBO 5.55 12 P 13 16.70 -1.2
 S 14 04.00
 ARE 5.62 338 eP 13 19.00 0.4
 iS 14 08.50
 SIV 9.69 55 iPc 14 12.00 -3.1X
 VAO 20.73 98 eP 16 40.60 4.7X
 BAO 21.10 77 eP 16 40.00 0.1
 LIC 68.83 74 P 22 59.60 -0.1
 KIC 69.15 74 P 23 01.60 -0.1

S.D. = 0.8 on 8 of 10 obs.

OCT 09, 1990 06h 33m 56.15 ± 0.63s
 43.395 N ± 4.5km 0.630 W ± 5.1km
 DEPTH = 10.0km (geophysicist)

PYRENEES (378)

MD 2.0 (STR).

OGE 0.25 153 Pg 34 01.89 0.3
 MADF 0.29 209 Pg 34 02.56 0.4
 Sg 34 08.39
 ATE 0.31 190 Pg 34 03.02 0.3
 Sg 34 09.56
 ESCF 0.32 173 Pg 34 02.97 0.2
 ELYF 0.35 230 Pg 34 02.91 -0.4
 ISSF 0.39 198 Pg 34 04.34 0.2
 Sg 34 12.08
 BOH 0.40 224 Pg 34 04.06 -0.4
 JAU 0.40 152 Pg 34 04.51 0.0

LHE 0.48 179 Pg 34 05.55 -0.4
 EPF 0.80 117 Pg 34 11.10 -0.6
 Sg 34 22.20
 LFF 1.83 32 Pg 34 28.80 0.9
 Sg 34 50.60
 LPO 1.84 45 Pg 34 27.30 -0.7
 Sg 34 51.10
 RJF 2.45 38 Pn 34 33.00 -3.8X
 Pg 34 37.80
 CAF 2.47 51 Pn 34 34.10 -3.0X
 Pg 34 39.70
 Sg 35 11.30
 MFF 3.23 6 Pg 34 52.70 4.9X
 Sg 35 32.00

S.D. = 0.5 on 12 of 15 obs.

& OCT 09, 1990 07h 55m 15.52s
 59.814 N 152.383 W

DEPTH = 79.8km

SOUTHERN ALASKA (2)

<AGS-P>.

HOM 0.41 112 iP 55 28.15 -0.5
 iS 55 37.99
 OPT 0.46 250 iP 55 28.40 -0.7
 iS 55 38.34
 XLV 0.49 137 eP 55 28.42 -0.9
 eS 55 38.32
 NNL 0.59 67 iP 55 30.65 0.4
 CNPM 0.65 116 iP 55 30.24 -0.6
 eS 55 41.40
 RSO 0.68 344 iP 55 30.77 -0.6
 iS 55 42.45
 AUE 0.68 228 eP 55 30.32 -0.8
 AUH 0.70 231 eP 55 30.95 -0.5
 AUI 0.72 228 eP 55 30.83 -0.7
 RDT 0.76 359 iP 55 31.37 -0.8
 PDB 0.92 269 iP 55 32.58 -1.2
 NKA 1.09 31 iP 55 37.30 1.4
 CDD 1.10 217 iP 55 35.26 -0.8
 eS 55 49.10
 MCNL 1.18 239 eP 55 35.64 -1.4
 SLKM 1.29 56 eP 55 37.71 -0.7
 SPU 1.38 7 iP 55 39.58 -0.1
 iS 55 57.92
 CKL 1.39 1 iP 55 39.64 -0.2
 eS 55 58.07
 BGL 1.45 360 iP 55 40.55 -0.2
 CRP 1.46 4 eP 55 40.85 0.0
 eS 55 59.45
 SEW 1.50 78 eP 55 40.47 -0.8
 CGLM 1.51 7 iP 55 41.40 -0.1
 NCG 1.60 4 iP 55 42.56 -0.1
 SUA 1.84 25 iP 55 46.20 0.3
 eS 56 10.32
 PMS 2.00 43 iP 55 47.83 -0.2
 SVW 2.06 310 eP 55 47.52 -1.4
 SKT 2.21 10 eP 55 50.38 -0.5
 PWA 2.22 33 eP 55 50.99 0.1
 KNIM 2.39 75 iP 55 51.19 -2.1
 MTU 2.39 84 eP 55 52.34 -1.0
 PLRM 2.40 40 eP 55 52.22 -1.1
 GHO 2.60 39 eP 55 55.23 -1.0
 CUT 2.79 21 eP 55 58.48 -0.4
 SML 2.82 43 eP 55 58.03 -1.2
 GLI 2.84 66 eP 55 56.90 -2.6
 SCM 3.20 49 eP 56 03.06 -1.5
 VLZ 3.27 64 eP 56 03.35 -2.1
 KLU 3.60 59 eP 56 08.10 -2.0
 TOA 3.80 50 eP 56 11.39 -1.5
 RND 3.98 24 eP 56 14.83 -0.6
 TGL 4.85 75 eP 56 25.63 -2.0
 BALM 5.12 72 eP 56 29.35 -2.1
 CCB 5.30 22 eP 56 30.81 -3.0

42 obs. associated

OCT 09, 1990 09h 27m 02.14 ± 0.72s
 20.826 S ± 11.0km 178.708 W ± 9.6km
 DEPTH = 596.4 ± 7.8 km

4.6mb (12 obs.)

FILIPIN ISLANDS REGION (181)

SGE 4.53 315 ePc 28 32.00 0.2
 MBU 4.54 327 eP 28 31.50 -0.3
 DZM 13.88 262 iPc 30 04.00 4.6X
 WLZ 17.66 195 eP 30 36.20 0.5

BRS 26.80 250 iPc 31 58.30 0.2
 STK 37.05 244 iPc 33 25.40 1.1
 0.9s 6.00nm 4.2mb
 ASPA 43.80 257 iPd 34 18.60 0.3
 0.6s 30.70nm 5.0mb
 iPcP 35 51.20
 iS 40 06.40
 WB5 43.88 263 eP 34 13.80 -5.2X
 eS 40 07.80
 MTN 48.51 271 iPc 34 53.70 -0.5
 0.4s 37.00nm 5.3mb
 FORR 48.52 247 eP 34 53.50 -0.6
 0.4s 32.00nm 5.2mb
 WARB 50.10 253 eP 35 05.00 -0.8
 0.4s 7.00nm 4.5mb
 KLB 57.31 245 iPd 35 56.00 -0.6
 BAL 58.32 246 eP 36 02.50 -0.9
 MUN 58.59 245 iPc 36 05.00 -0.1
 MRWA 59.11 248 eP 36 08.00 -0.6
 PCC 78.56 42 eP 38 04.50 0.4
 BCH 78.68 45 P 38 05.00 0.0
 BRK 78.87 42 eP 38 06.00 0.3
 CMB 80.15 43 iPd 38 12.70 0.2
 WDC 80.35 40 iPd 38 13.90 0.6
 GMW 84.54 34 P 38 34.50 0.3
 RMW 85.01 35 P 38 36.30 -0.2
 TTA 85.38 10 P 38 38.20 0.2
 1.0s 8.75nm 4.4mb
 DPW 87.20 36 P 38 46.70 -0.3
 PNT 87.29 34 eP 38 48.00 0.7
 NEW 88.02 36 P 38 50.30 -0.4
 0.8s 4.43nm 4.3mb
 ALO 88.12 52 eP 38 51.00 -0.7
 1.0s 5.50nm 4.4mb
 ANMO 88.12 52 P 38 51.80 0.1
 1.1s 7.91nm 4.5mb
 IMA 88.68 10 eP 38 53.40 -0.1
 FBA 88.70 13 ePd 38 52.60 -0.8
 0.8s 16.60nm 5.0mb
 LRM 89.38 40 eP 38 49.50 -7.8X
 BW06 89.66 43 P 38 57.70 -0.9
 0.9s 5.30nm 4.5mb
 CHTO 89.73 290 iPd 39 01.30 2.2
 0.6s 11.64nm 5.0mb
 GOL 91.03 48 P 39 04.50 -0.5
 NB2 139.22 353 PKP 45 16.00 -7.2X
 0.7s 2.30nm
 HFS 139.75 350 ePKP 45 14.70 -9.4X
 1.5s 47.90nm
 KRA 147.30 338 ePKP 45 40.70 3.5X
 ADI 147.53 299 ePKP 45 39.00 0.9
 JVI 147.67 297 ePKP 45 42.00 3.7X
 KSP 147.80 342 iPKPd 45 42.30 4.3X
 e 45 47.50
 SPC 147.91 336 ePKP 45 35.90 -2.6X
 CLL 148.22 346 iPKP 45 42.90 4.3X
 0.8s 26.00nm
 CLL 148.22 346 iPKP 45 48.00 9.4X
 0.9s 15.00nm
 BRG 148.40 345 iPKP 45 43.20 4.3X
 1.0s 20.00nm
 i 45 49.10
 MBH 148.45 293 ePKP 45 43.50 3.9X
 WTS 148.59 353 ePKP 45 44.00 4.9X
 0.8s 22.00nm
 PRU 149.06 343 PKPd 45 45.00 5.1X
 0.9s 8.40nm
 e 45 52.00
 ZST 149.87 339 ePKP 45 56.10 14.9X
 ENN 149.90 354 e(PKP) 45 47.00 5.9X
 0.8s 12.00nm
 e 45 55.00
 KHC 150.10 344 ePKP 45 48.00 6.4X
 DOU 150.67 356 iPKPc 45 48.90 6.6X
 0.5s 9.20nm
 CDF 152.06 351 ePKP 45 51.20 6.7X
 0.7s 4.40nm
 FLN 152.09 3 ePKP 45 51.10 6.7X
 0.8s 10.75nm
 LDF 152.27 2 ePKP 45 51.40 6.7X
 GRR 152.45 3 ePKP 45 51.90 7.0X
 HAU 152.58 353 ePKP 45 52.30 7.1X
 0.8s 5.35nm
 BSF 152.69 352 ePKP 45 52.50 7.0X
 LPF 152.79 3 ePKP 45 52.80 7.4X
 LOR 153.54 356 ePKP 45 54.50 8.0X
 AVF 154.05 357 ePKP 45 56.80 9.7X

09d 09h

MFF 154.26 2 ePKP 45 56.60 9.1X
S.D. = 0.7 on 32 of 61 obs.

* OCT 09, 1990 09h 53m 49.22 ± 3.52s
40.378 N ± 10.2km 27.561 E ± 26.0km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.9 (ISK).

EDC	0.23	98	iPq	53	53.90	-0.3
			iSq	53	59.90	
BNT	0.28	94	iPq	53	55.20	0.2
			iSq	54	01.20	
CTT	1.01	40	iPn	54	08.30	-0.1
DST	1.13	133	iPn	54	10.30	-0.1
YLV	1.40	82	iPn	54	14.80	0.0
IZI	1.46	91	ePn	54	16.00	0.3
GBZT	1.49	73	ePq	54	52.00	35.9X
			iSq	54	53.00	

S.D. = 0.3 on 6 of 7 obs.

OCT 09, 1990 10h 21m 07.32 ± 0.66s
35.107 N ± 8.0km 118.880 W ± 7.4km
DEPTH = 20.7 ± 7.7 km

CENTRAL CALIFORNIA (39)
ML 3.3 (BRK).

ABL	0.38	228	iPd	21	15.80	0.3
BCN	0.99	275	iPc	21	25.90	0.2
PHAM	1.44	301	e(P)	21	31.50	-0.8
PRI	1.78	386	eP	21	37.80	0.4
PEC	1.07	130	eP	21	38.70	0.2
FRI	2.00	341	eP	21	41.00	0.6
			eS	22	06.10	
PLM	2.42	136	eP	21	46.50	-0.1
SAO	2.66	309	eP	21	49.60	-0.3
TNP	3.26	24	eP	22	07.00	8.5X

S.D. = 0.6 on 8 of 9 obs.

* OCT 09, 1990 10h 28m 31.63 ± 0.94s
40.802 N ± 8.2km 29.578 E ± 7.7km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.1 (ISK).

HRT	0.07	74	ePq	28	34.00	-0.1
GBZT	0.10	263	ePq	28	33.60	-0.8
			iSq	28	36.00	
YLV	0.28	214	iPq	28	37.00	0.2
			iSq	28	41.80	
IZI	0.47	190	ePq	28	41.30	0.1
CTT	0.94	292	ePn	28	50.00	0.5

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

* OCT 09, 1990 10h 42m 46.17 ± 0.37s
58.714 S ± 9.3km 25.229 W ± 9.8km
DEPTH = 33.0km (normal)
5.0mb (8 obs.)

SOUTH SANDWICH ISLANDS REGION (153)

AIA	19.20	234	eP	47	11.00	1.5
SPA	31.46	180	iPc	49	05.20	-1.3
	0.5s	13.89nm			5.1mb	
LNK	39.23	289	iPc	50	12.00	-0.8
PEL	39.53	290	iPd	50	15.80	0.4
	0.6s	21.33nm			5.1mb	
SIV	50.18	313	P	51	38.60	-1.9
SOB1	50.82	340	iPc	51	45.70	0.3
ZOBO	52.79	305	P	52	00.00	-0.9
	Z 24s	0.08um			3.7mszX	
		LR	10	20.00		
LIC	66.73	22	P	53	36.40	0.5
	0.7s	7.50nm			4.9mb	
KIC	66.92	22	P	53	37.44	0.3
	0.8s	9.00nm			4.9mb	
TIC	67.14	22	P	53	38.72	0.1
	0.8s	8.50nm			4.9mb	
LKO	69.86	21	P	53	56.28	0.8
	0.7s	9.50nm			5.0mb	
BCAO	71.92	47	iPc	54	08.30	0.4
	0.6s	12.00nm			5.1mb	
STK	89.08	169	eP	55	39.30	0.3
	1.8s	35.00nm			5.4mb	
FRI	122.94	288	ePKP	01	40.80	1.2
GKN	123.73	91	PKP	01	41.00	-0.7
PKI	123.78	92	PKP	01	41.20	-0.9
KKN	123.89	92	PKP	01	41.40	-0.7

CMB 124.08 288 ePKP 01 42.50 0.5
GUN 124.30 92 PKP 01 43.20 0.1
BKS 124.88 287 iPKPd 01 44.60 1.2

LRM 126.30 300 ePKP 01 47.10 0.8
EDM 132.17 306 ePKP 01 56.50 -0.4
YKA 138.84 315 ePKP 02 08.50 -0.7

MBC 146.85 334 ePKPc 02 24.80 2.1X
INK 148.51 317 ePKP 02 28.50 3.0X

BJI 149.29 110 ePKP 02 32.00 4.4X
TOA 151.52 302 ePKPc 02 37.90 7.5X

PMR 152.67 300 ePKP 02 39.20 7.3X
FBA 153.04 308 ePKPc 02 39.60 7.3X

IMA 155.67 309 ePKPc 02 46.20 10.1X
TTA 156.13 301 ePKP 02 46.90 10.2X

S.D. = 0.9 on 23 of 31 obs.

* OCT 09, 1990 10h 54m 07.41 ± 0.98s
39.120 N ± 8.3km 27.689 E ± 14.2km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.4 (ISK).

IZM	0.79	205	ePq	54	23.00	0.1
			eSq	54	34.50	
DST	0.87	56	ePq	54	24.00	-0.3
EDC	1.23	6	ePn	54	30.00	-0.3
BNT	1.25	8	iPn	54	31.70	1.1
KGT	1.36	348	iPn	54	31.70	-0.7

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

OCT 09, 1990 13h 28m 36.16 ± 0.86s
44.643 N ± 7.5km 10.254 E ± 9.1km
DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)

MME	0.55	144	Pc	28	48.40	0.9
			eSq	28	53.50	
BDI	0.63	157	P	28	49.20	0.3
			eSq	28	57.20	
PII	0.94	168	P	28	54.60	0.5
			eSq	29	06.80	
MDI	1.20	342	P	29	00.80	2.4
			eSq	29	17.20	
CTI	1.72	35	Pd	29	04.00	-2.3
			eSn	29	23.40	
SBF	2.17	250	Pn	29	13.00	0.1
			Sn	29	37.60	
PGF	2.28	204	Pn	29	13.50	-1.1
			Sn	29	38.00	
FRF	2.81	249	Pn	29	22.20	0.2
			Sn	29	53.20	
LMR	3.00	245	Pn	29	23.60	-1.0
			Sn	29	57.00	

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

* OCT 09, 1990 13h 37m 31.19 ± 1.93s
16.655 N ± 19.5km 99.270 W ± 10.7km
DEPTH = 33.0km (normal)

NEAR COAST OF GUERRERO, MEXICO (58)

ACX	0.60	291	iP	37	43.51	0.2
			iS	37	50.59	
III	1.72	354	iP	37	58.55	-0.9
			iS	38	19.66	
OXX	2.48	80	(P)	38	10.00	-0.3
			iS	38	42.95	
PPM	2.48	14	iP	38	10.06	-0.5
			(S)	38	39.00	
IIJ	2.53	21	(P)	38	12.50	1.5
CRX	2.76	352	(P)	38	20.50	6.1X
IIJ	3.09	352	iP	38	22.00	2.7X
			iS	38	51.00	
LVVM	4.07	41	(P)	38	39.00	6.3X

S.D. = 1.3 on 5 of 8 obs.

* OCT 09, 1990 13h 45m 02.10s
62.062 N 149.115 W
DEPTH = 15.1km
CENTRAL ALASKA (1)
<AGS-P>.

GHO 0.30 163 iP 45 08.65 -0.1
SML 0.45 124 iP 45 10.56 -0.7
PLRM 0.47 181 iP 45 11.62 0.1

PWA 0.55 222 iP 45 13.22 0.4
CUT 0.64 303 iP 45 13.73 -0.7
PMS 0.85 195 iP 45 17.74 -0.3

SCM 0.88 104 eP 45 17.07 -1.4
HUR 0.95 345 iP 45 18.69 -1.1

SUA 0.98 233 eP 45 20.11 -0.2
SKT 1.14 267 eP 45 21.37 -1.6
RND 1.35 5 iP 45 24.81 -1.6

TOA 1.39 87 eP 45 25.55 -1.3
GLI 1.53 140 eP 45 28.46 -0.4
CGLM 1.57 243 eP 45 30.04 0.5

VZW 1.59 128 eP 45 28.65 -1.1
NCG 1.59 247 eP 45 29.76 -0.1
KLU 1.62 109 eP 45 28.80 -1.5

VLZ 1.63 124 eP 45 28.52 -1.7
SLKM 1.65 199 eP 45 31.02 0.4
CRP 1.66 243 eP 45 32.07 1.2

SPU 1.66 239 eP 45 31.88 1.1
MCK 1.68 3 eP 45 29.77 -1.3
SDG 1.73 73 eP 45 30.70 -1.1

BGL 1.76 244 eP 45 33.72 1.5
CKL 1.77 242 eP 45 33.79 1.4

KNIM 1.84 158 eP 45 33.56 0.1
SEW 1.97 185 eP 45 35.99 0.8
RDT 2.18 228 eP 45 39.81 1.5

MTU 2.20 160 eP 45 39.19 0.6
DDM 2.28 39 eP 45 40.02 0.2
RSO 2.38 229 eP 45 42.88 1.6

NEA 2.53 0 eP 45 44.20 1.0
HDA 2.55 22 eP 45 44.27 0.8
GLB 2.60 102 iP 45 44.36 0.1

CCB 2.66 12 eP 45 42.77 -2.4
CNPM 2.75 203 eP 45 49.65 3.2
GLM 3.04 14 eP 45 49.20 -1.3

BALM 3.40 105 eP 45 54.91 -0.8

38 obs. associated

* OCT 09, 1990 14h 16m 56.49 ± 0.86s
39.106 N ± 7.1km 27.556 E ± 8.9km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.4 (ISK).

IZM	0.74	198	ePq	17	11.00	-0.1
			iSq	17	22.00	
DST	0.97	59	ePn	17	15.20	0.3
EZN	1.19	307	ePn	17	19.00	0.3
BNT	1.28	13	ePn	17	20.00	-0.2
KGT	1.36	352	iPn	17	21.20	-0.2

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

* OCT 09, 1990 15h 14m 52.23 ± 0.99s
38.090 N ± 9.3km 27.662 E ± 12.1km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.5 (ISK).

IZM	0.58	213	ePn	15	04.00	-0.1
DST	1.04	46	iPn	15	12.10	0.3
EZN	1.40	312	ePn	15	18.00	0.3
EDC	1.46	6	ePn	15	18.00	-0.6
BNT	1.48	8	ePn	15	19.00	0.1

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

* OCT 09, 1990 15h 28m 43.59 ± 1.36s
16.455 N ± 12.0km 62.171 W ± 16.9km
DEPTH = 33.0km (normal)

LEEWARD ISLANDS (92)

SEG	0.64	95	eP	28	56.52	0.3
			S	29	10.30	
BPA	0.66	27	eP	28	55.81	-0.7
			S	29	09.00	
DOG	0.68	128	eP	28	57.77	1.0
NEV	0.78	331	eP	28	58.52	0.4

S 29 15.50
BBL 1.14 144 eP 29 02.19 -1.1
S.D. = 1.2 on 5 of 5 obs.

? OCT 09, 1990 15h 42m 35.35±4.06s
29.425 S ±33.0km 68.761 W ±43.4km
DEPTH = 33.0km (normal)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 1.92 173 iPc 43 06.90 0.6
RTCB 2.05 181 iPc 43 07.50 -0.9
eS 43 35.00
RTBS 2.31 195 ePc 43 12.10 0.3
RTCV 2.44 176 ePd 43 13.70 0.0
CYA 2.78 70 iPc 43 18.50 0.0
S.D. = 0.8 on 5 of 5 obs.

? OCT 09, 1990 16h 18m 45.54±2.25s
43.141 N ±18.6km 0.408 W ±17.5km
DEPTH = 10.0km (geophysicist)

PYRENEES (378)
MD 1.0 (STR).

OGE 0.06 300 Pg 18 47.58 -0.2
Sg 18 49.75
JAU 0.11 165 Pg 18 48.66 0.2
ESCF 0.14 243 Pg 18 48.25 -0.6
Sg 18 51.87
MADF 0.30 271 Pg 18 52.39 0.5
Sg 18 57.46
S.D. = 0.8 on 4 of 4 obs.

? OCT 09, 1990 16h 33m 19.55±3.47s
40.566 N ±28.8km 23.309 E ±12.5km
DEPTH = 10.0km (geophysicist)

GREECE (364)

MMB 1.07 17 iPg 33 39.00 -0.7
KKB 1.31 353 ePc 33 44.00 0.2
RZN 1.54 43 iP 33 48.00 0.7
KDZ 1.93 55 eP 33 53.00 0.3
SKO 1.99 316 ePn 33 53.00 -0.6
VTS 2.03 358 eP 33 56.00 1.8
PGB 2.08 18 eP 34 00.00 5.0X
PVL 3.05 29 eP 34 07.00 -1.6
S.D. = 1.3 on 7 of 8 obs.

* OCT 09, 1990 16h 55m 33.97±0.84s
46.390 N ±10.7km 16.359 E ±13.3km
DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)

PTJ 0.56 210 iPg 55 45.30 -0.2
ISg 55 54.00
ZAG 0.63 205 iPg 55 46.30 -0.3
ISg 55 55.80
VBY 1.17 221 eP 56 05.00 9.1X
e 56 16.50
LJU 1.31 255 e(Pn) 56 02.40 4.1X
eSn 56 26.00
CEY 1.50 245 eP 56 06.00 5.1X
e 56 10.00
e(Sn) 56 31.00
BLY 1.74 160 eP 56 20.70 16.3X
VOY 1.75 259 e(Pn) 56 05.30 0.7
eSn 56 41.40
ZST 1.88 15 eP 56 05.50 -0.9
e 56 33.30
e 56 47.30
TRI 1.93 250 eP 56 36.30 29.2X
i(Sg) 56 44.40
SRO 1.95 42 iP 56 10.00 2.6X
BUD 2.13 58 eP 56 10.70 0.7
KHC 3.32 327 ePn 56 23.20 -3.9X
Pg 56 32.00
eSg 57 13.60
PRU 3.80 342 eP 56 52.00 18.2X
e 57 33.80
eSg 57 45.80
WTS 8.40 315 ePg 58 23.50 45.0X
S.D. = 0.9 on 5 of 14 obs.

? OCT 09, 1990 18h 04m 36.48±1.53s
22.144 S ±10.4km 70.914 W ±20.1km
DEPTH = 10.0km (geophysicist)

4.9mb (1 obs.)
NEAR COAST OF NORTHERN CHILE (122)

ANT 1.62 164 iPc 05 05.20 0.1
iS 05 20.30
ARE 5.68 354 eP 06 12.00 8.7X
eS 07 17.00
CNCB 5.98 28 P 06 08.00 0.2
LPB 6.18 26 eP 06 21.00 10.6X
ZOBO 6.41 25 P 06 23.00 9.1X

Z 24s 0.20um
LR 08 34.00
CCH 6.53 44 P 06 26.40 11.1X
MDZ 10.85 171 eP 07 24.10 9.1X
SIV 11.13 58 P 07 18.60 -0.3
PPD 18.17 93 eP 08 51.50 0.9
VAO 22.13 97 eP 09 33.00 -1.0
SPA 67.99 180 eP 15 37.90 0.1
0.5s 4.17nm 4.9mb
Z 20s 1.35um 5.2Msz
S.D. = 0.8 on 6 of 11 obs.

OCT 09, 1990 18h 05m 10.15±0.19s
3.551 S ±4.0km 100.830 E ±3.9km
DEPTH = 25.3km (20 depth phases)
5.6mb (48 obs.) 5.1Msz (10 obs.)

SOUTHERN SUMATERA (274)
CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
L.P.B.: 14S, 27C
Centroid Location:

Origin Time 18:05:14.5 0.6
Lat 4.18S 0.08 Lon 100.61E 0.08
Dep 15.0 FIX Half-duration 1.9

Moment Tensor: Scale 10¹⁷ Nm
Mrr=-0.85 0.09 Mtl=-0.81 0.07
Mff=-0.03 0.13 Mrt=1.01 0.33
Mrf=-0.32 0.20 Mtf=0.33 0.08

Principal Axes:
T Vol=1.34 Plg=65 Azm=15
N 0.09 1 108
P -1.42 25 199

Best Double Couple: Mo=1.4*10¹⁷
NP1: Strike=292 Dip=20 Slip=94
NP2: 108 70 89

PPI 3.10 352 eP 05 00.50 -58.1X
eS 05 30.50
KGM 6.06 24 ePd 06 43.20 2.7
e 08 35.50
KLM 6.66 7 eP 06 50.00 1.1
IPM 8.08 1 ePc 07 10.10 1.3
1.4s 481.30nm 6.5mb

BSI 10.55 328 ePc 07 42.50 -0.4
1.0s 526.90nm 6.8mb X
SNG 10.66 359 eP 07 42.80 -1.6
1.1s 139.24nm 6.1mb

TRT 12.45 110 ePd 08 09.70 1.0
NNT 16.07 356 eP 08 55.70 -0.5
e 13 57.00

KKM 18.08 58 ePd 09 22.40 0.9
1.3s 267.10nm 5.2mb
MKS 18.66 96 iPc 09 29.50 1.0

BDT 20.74 355 eP 09 44.80 -6.8X
0.9s 138.00nm 5.4mb
LOE 20.84 2 eP 09 50.00 -2.7

CHG 22.30 355 iPd 10 06.40 -1.0
1.1s 164.56nm 5.4mb
eS 14 26.00

CHTO 22.30 355 eP 10 05.20 -2.2
1.2s 34.38nm 4.7mb
OIZ 24.13 21 Pc 10 26.50 1.3
1.5s 500.00nm 5.8mb

N 14s 3.50um
E 13s 3.60um
S 14 38.50
sS 14 57.50

MNI 24.51 79 ePd 10 30.00 1.1
KOD 27.00 301 eP 10 53.10 0.5
KMI 28.56 4 Pc 11 07.00 0.5
1.5s 120.00nm 5.4mb

Z 14s 1.10um 4.6Msz X
GBA 28.80 307 P 11 08.10 -0.4
GZH 29.16 24 eP 11 12.50 0.9

Z 15s 5.30um 5.3Msz X
N 14s 4.60um
E 13s 3.20um

HYB 30.29 314 iPd 11 21.50 -0.4

1.0s 80.00nm 5.5mb
i 11 29.00 26km
GYA 30.36 10 iPc 11 22.00 -0.5
1.2s 200.00nm 5.8mb
Z 16s 3.50um 5.1Msz X
N 13s 4.80um
E 13s 3.90um

MTN 31.34 109 eP 11 29.00 -2.2
0.3s 10.00nm 5.2mb
WARB 33.45 135 eP 11 49.00 -0.5
0.4s 1.00nm 4.1mb X

PKI 34.33 335 P 11 57.60 0.2
LSA 34.34 345 iPc 11 57.60 0.0

N 15s 1.10um
E 15s 0.90um

CD2 34.38 4 P 17 22.00
1.1s 70.00nm 5.5mb
Z 16s 10.30um 5.7Msz X
E 15s 5.65um

S 17 25.30
eS 17 39.40

GUN 34.44 336 P 11 58.80 0.5
POO 34.46 310 iPd 11 57.70 -0.6
DMN 34.49 335 P 11 59.20 0.5

KKN 34.58 335 P 11 59.80 0.4
GKN 35.03 335 P 12 03.70 0.5
WHN 36.28 20 Pc 12 14.50 1.0

1.0s 100.00nm 5.7mb
Z 16s 5.40um 5.4Msz X
E 14s 4.30um

pP 12 22.50 27km
WB5 36.51 119 eP 12 14.30 -1.4
ASPA 37.68 125 iPc 12 24.90 -0.6

1.2s 37.60nm 5.1mb
Z 22s 2.70um 5.0Msz
eS 18 08.60

XAN 38.16 11 P 12 29.30 -0.1
1.0s 400.00nm 6.2mb
N 13s 4.30um

E 14s 3.50um
pP 12 37.00 26km
S 18 14.00

sS 18 37.00
NDI 39.27 326 iPc 12 38.50 -0.2
1.0s 140.00nm 5.6mb

NJ2 39.33 24 Pc 12 39.80 0.7
1.2s 70.00nm 5.3mb
Z 16s 2.50um 5.1Msz X
E 16s 5.20um

LZH 39.53 4 iPc 12 41.50 0.5
2.0s 460.00nm 5.9mb
Z 16s 5.90um 5.5Msz X

pP 12 48.50 24km
sS 18 54.00
SS 21 30.00

ScS 22 46.00
SSE 39.55 28 iPc 12 42.00 1.1
1.2s 250.00nm 5.8mb

Z 20s 2.40um 5.0Msz
N 13s 4.60um
E 12s 1.60um

pP 12 50.00 27km
ePP 14 18.00
eS 18 48.00

sS 19 02.00
OIS 41.35 117 iPc 12 55.10 -0.9
TIA 42.39 20 Pc 13 04.20 0.0

TIY 42.45 14 Pc 13 05.50 0.7
1.2s 200.00nm 5.7mb
Z 16s 3.60um 5.4Msz X
E 14s 2.20um

S 19 25.50
sS 19 38.00

GTA 42.76 359 iPc 13 07.80 0.4
1.2s 190.00nm 5.7mb
Z 16s 4.10um 5.4Msz X
E 18s 4.80um

pP 13 15.50 26km
eS 19 28.00

BTO 44.73 10 iPd 13 24.00 0.6
N 14s 4.40um
E 12s 1.50um

pP 13 32.00 27km
eS 20 00.00

HHC 45.26 11 iPc 13 28.80 1.2
1.2s 300.00nm 6.1mb

09d 18h

Z 16s	5.90um	5.6MszX	BBTK	75.66 313 iPc	16 54.00 -1.3	NEW	124.87 30 PKP	24 09.00 0.1
N 14s	2.70um		ALT	77.41 311 eP	17 04.40 -0.7	FHC	125.28 41 ePKP	24 12.00 1.3
E 13s	2.70um		YLV	78.35 312 iP	17 10.00 -0.2	FFC	125.72 16 ePKP	24 11.00 -0.1
	PP	15 17.00	IZM	79.41 310 eP	17 16.00 0.0		1.2s	23.00nm
	S	20 10.00	SBA	81.58 169 (P)	17 35.60 8.8X	WDC	126.33 40 ePKP	24 13.20 0.4
BJI	45.61 17 iPc	13 31.00 0.8	PVL	81.91 314 iPd	17 30.00 1.0	LBFM	126.34 39 PKP	24 13.50 0.4
	1.2s	230.00nm	MLR	81.99 317 ePc	17 19.00 -10.6X	MIN	127.06 40 ePKP	24 14.30 -0.1
Z 16s	6.68um	5.7MszX	RZN	82.03 313 iPd	17 30.00 0.0	ORV	127.55 41 ePKP	24 15.30 0.2
N 13s	3.28um		BCAO	82.60 275 iPd	17 33.00 -0.3	BRK	127.91 43 ePKP	24 16.50 0.7
	ePcP	15 06.00		0.9s	19.00nm	PCC	128.01 44 ePKP	24 16.50 0.5
	esS	20 32.00			IS	MHC	128.60 44 ePKP	24 18.20 0.8
DL2	46.41 22 Pc	13 37.00 0.5	MMB	82.74 313 iPd	17 32.00 -1.5	ARN	128.67 43 PKP	24 17.60 0.2
	1.5s	200.00nm	KKB	83.26 313 eP	17 35.00 -1.1	LRM	128.86 30 ePKP	24 17.60 -0.2
Z 14s	3.30um	5.4MszX	VTS	83.31 313 iPd	17 37.00 0.5	CMB	129.10 42 ePKP	24 18.00 -0.2
N 15s	3.30um		BMR	84.11 318 ePd	17 42.00 1.7	PRI	129.89 44 ePKP	24 21.50 1.7
E 14s	1.80um		DEV	84.16 317 ePd	17 42.00 1.5	FRI	130.11 43 ePKP	24 20.70 0.7
GUMO	46.89 68 e(P)	13 39.00 -1.7	SKO	84.49 313 eP	17 39.40 -2.9	BCH	130.78 45 PKP	24 22.60 1.1
Z 18s	0.46um	4.5Msz	OHR	84.82 312 eP	17 45.00 0.9	ISA	131.65 44 ePKP	24 25.00 1.9
GUA	46.92 68 e(P)	13 23.20 -17.7X		1.2s	58.00nm		e	27 47.00
ADE	46.99 136 e(P)	13 42.10 0.8	BZS	84.99 316 eP	17 44.00 -0.7	CLC	132.17 43 ePKP	24 26.00 1.9
CTA	47.20 114 iPc	13 42.30 -0.8	BEO	85.67 315 eP	17 48.00 -0.1		e	26 52.00
	1.7s	223.00nm	SUF	86.16 334 iP	17 50.50 0.3		e	27 49.00
	IS	20 33.00		0.9s	12.70nm	DUG	132.53 35 PKP	24 25.00 0.2
STK	47.51 131 iPd	13 45.00 -0.4	NUR	86.30 331 eP	17 51.00 0.1	SBB	132.62 44 ePKP	24 25.00 0.0
	1.3s	18.00nm		0.7s	24.00nm		e	27 51.00
	i	13 51.20 21km	SPC	86.52 320 eP	17 52.10 -0.4	MWC	132.70 45 ePKP	24 34.00 8.7X
	i	17 42.00	KRA	86.86 320 eP	17 54.00 0.2	GSC	132.99 43 ePKP	24 27.00 1.3
KSH	48.53 334 P	13 54.00 0.7		1.4s	67.00nm		e	27 52.00
WMQ	48.62 347 iPc	13 54.50 0.7			e	DAU	133.27 34 PKP	24 26.30 -0.1
	1.2s	400.00nm	SOD	87.22 338 iP	17 55.90 0.6	GOL	136.89 30 PKP	24 31.80 -1.4
Z 28s	1.40um	4.8MszX	SRO	87.58 318 eP	17 57.80 0.4	ALQ	139.80 36 ePKP	24 31.00 -7.6X
E 13s	1.50um		KEV	87.76 340 eP	17 58.00 0.2		Z 18s	0.57um 5.4Msz
	pP	14 02.50 27km	ORI	87.96 310 P	18 00.50 1.1	PPD	142.73 226 ePKP	24 52.90 9.0X
	sP	14 12.00	CSI	88.05 310 P	18 02.20 2.3	MEO	144.07 28 iPKPc	24 42.50 -3.4X
	ScP	19 13.00	CZI	88.11 309 P	18 01.10 1.0	TUL	144.32 23 iPKPc	24 43.80 -2.4X
	S	20 56.00	ZST	88.44 318 eP	18 01.60 0.1		1.3s	212.20nm
	sS	21 12.00	ZAG	88.93 316 ePc	18 04.50 0.6		Z 20s	1.00um 5.6Msz
	ScS	23 43.50	PTJ	88.95 316 eP	18 03.70 -0.4		i	25 06.00
SNY	49.68 22 iPc	14 00.00 -1.9	VKA	88.97 318 iPd	18 05.00 0.9		LR	21 00.00
	1.2s	100.00nm		0.8s	29.50nm	SIV	153.59 222 PKP	25 00.00 -1.2
Z 16s	5.60um	5.7MszX			e	CNCB	156.95 208 ePKP	25 07.00 0.7
N 14s	1.70um		KSP	89.27 321 iPc	18 06.00 0.6	LPB	157.24 208 ePKP	25 04.00 -2.5X
E 15s	4.10um			1.4s	49.00nm	ZOBO	157.48 209 PKP	25 05.00 -2.0
	pP	14 09.00 30km			ic		Z 18s	0.45um 5.3Msz
	S	21 12.00	VBY	89.40 315 eP	18 07.00 0.9		LR	22 40.00
CMS	50.58 129 eP	14 10.00 0.9	LJU	89.96 316 eP	18 09.40 0.7	S.D. = 1.1 on 159 of 172 obs.		
RMQ	51.19 121 eP	14 13.00 -0.8	CEY	90.00 316 eP	18 09.50 0.5	? OCT 09, 1990 18h 16m 34.29 ± 3.27s		
CN2	52.08 22 iPc	14 19.20 -1.0	PRU	90.30 320 eP	18 06.00 -4.2X	37.842 N ± 21.7km 26.835 E ± 26.2km		
	1.0s	200.00nm			e	DEPTH = 10.0km (geophysicist)		
Z 14s	5.00um	6.0mb	VOY	90.40 316 eP	18 11.20 0.3	DODECANESE ISLANDS (369)		
	pP	14 26.00 25km	BRG	90.76 321 iPd	18 13.00 0.7	KAP	2.30 173 ePn	17 12.60 -0.3
	S	14 19.20 -1.3		1.6s	60.00nm	NPS	2.76 201 ePn	17 19.80 0.5
IIDJ	52.10 39 eP	14 19.20 -1.3			i	VAM	3.22 222 ePn	17 26.00 0.1
MTMJ	52.75 37 P	14 24.20 -1.3	KHC	90.86 319 iPd	18 14.00 1.1	VLI	3.30 251 ePn	17 31.00 3.9X
MAT	52.97 38 eP	14 25.00 -2.0	FVI	91.21 316 P	18 14.00 -0.4	ITM	3.96 262 ePn	17 35.80 -0.6
	1.4s	160.47nm	BHG	91.22 318 iPd	18 14.90 0.4	EVF	4.09 287 ePn	17 38.70 0.4
Z 20s	0.71um	4.7Msz	WET	91.32 319 iPc	18 15.50 0.5	S.D. = 0.6 on 5 of 6 obs.		
	eS	22 05.00		1.4s	67.00nm	* OCT 09, 1990 19h 11m 29.37 ± 0.96s		
CHJJ	53.14 39 P	14 26.70 -1.5	CLL	91.38 321 iP	18 14.90 -0.3	39.553 N ± 7.2km 27.759 E ± 11.7km		
BWA	53.77 131 eP	14 35.50 2.6		1.3s	23.00nm	DEPTH = 10.0km (geophysicist)		
NIJ	53.90 38 eP	14 32.30 -1.4	HFS	91.62 330 eP	18 16.00 -0.1	TURKEY (366)		
KAKJ	53.98 39 eP	14 31.50 -2.8		0.5s	1.30nm	MD 2.4 (ISK).		
MDJ	54.42 25 Pc	14 36.50 -1.0		Z 20s	0.76um	DST	0.67 85 iPq	11 42.10 -0.7
	1.0s	30.00nm	SFI	91.70 314 P	18 16.00 -0.8		iSg	11 51.10
Z 22s	2.10um	5.3mb	CTI	91.96 316 P	18 18.60 0.5	EDC	0.80 6 iPq	11 43.90 -1.0
N 14s	3.10um	5.2Msz	MOX	92.22 320 iP	18 20.00 0.9	BNT	0.81 9 ePq	11 44.90 -0.2
E 14s	3.10um				e		eSg	11 54.90
	pP	14 44.00 25km	SQTA	92.32 317 iPd	18 19.80 0.0	KCT	0.83 33 iPq	11 45.00 -0.5
CAN	54.57 132 eP	14 39.70 0.9		0.6s	6.70nm		iSg	11 55.00
BRS	54.89 121 iPc	14 41.30 0.0	GRF	92.43 319 iPc	18 20.80 0.7	IZM	1.22 199 ePn	11 52.00 0.0
YAMJ	55.13 37 P	14 42.60 -0.2		1.3s	27.00nm	YLV	1.60 50 iPn	11 59.00 1.2
MAIO	55.31 320 iPc	14 42.00 -2.2		Z 19s	0.40um	CTT	1.67 18 ePn	12 00.00 1.2
	1.2s	27.00nm			e	S.D. = 1.0 on 7 of 7 obs.		
	eS	22 24.00	OGA	92.43 317 iPd	18 21.00 0.6	* OCT 09, 1990 19h 12m 56.60 ± 0.75s		
OFUJ	56.69 38 P	14 53.40 -0.6	NB2	92.89 331 P	18 21.70 -0.3	39.565 N ± 6.9km 27.812 E ± 7.1km		
HNR	58.97 99 eP	15 08.00 -2.4		1.3s	18.10nm	DEPTH = 10.0km (geophysicist)		
NPA	61.65 255 eP	15 26.00 -2.8	IMA	99.49 23 P	18 51.30 -0.8	TURKEY (366)		
TAB	65.19 315 eP	15 51.00 -0.8		1.0s	8.75nm	MD 3.0 (ISK).		
MAW	69.00 195 iP	16 15.00 -0.2	GMW	122.33 34 PKP	24 04.40 -0.4	DST	0.63 86 iPq	13 09.00 -0.3
CIR	69.37 249 iPd	16 13.00 -5.3X	BMW	122.70 35 PKP	24 06.00 0.5		iSg	13 18.00
KRI	71.00 254 iPc	16 30.30 1.8	LON	123.34 34 PKP	24 06.00 -0.8	EDC	0.78 3 iPq	13 10.90 -0.9
MBH	71.14 303 eP	16 27.50 -1.4						
JVI	71.35 305 eP	16 29.00 -1.1						
ADI	71.78 306 eP	16 32.00 -0.8						
BUL	72.09 250 iPd	16 34.50 -0.5						
EVA	72.10 243 iPd	16 35.00 0.0						
	0.6s	13.33nm						
KAS	75.39 314 eP	16 53.00 -0.7						

BNT	0.79	6	iPg	13	21.90	-1.1
			iPg	13	10.90	
KCT	0.80	31	iPg	13	12.50	0.3
EZN	1.18	283	ePn	13	18.80	0.3
Izm	1.24	200	ePn	13	19.50	-0.2
YLV	1.56	50	iPn	13	24.00	-0.5
CTT	1.65	16	ePn	13	27.40	1.7
ALT	1.85	105	ePn	13	32.40	3.6X
HRT	1.90	48	ePn	13	30.00	0.7

S.D. = 1.0 on 9 of 10 obs.

OCT 09, 1990 19h 38m 26.89±0.87s
38.865 N ± 8.7km 21.143 E ± 7.9km
DEPTH = 10.0km (geophysicist)
GREECE (364)

EVR	0.52	84	ePg	38	36.00	-1.5
VLS	0.81	212	ePg	38	41.50	-1.1
KEK	1.34	310	ePg	38	51.50	-0.1
NEO	1.68	74	ePn	38	57.50	1.0
ITM	1.79	160	ePg	39	01.00	2.9X
OHR	2.26	353	ePn	39	05.00	0.9
PLG	2.33	49	ePn	39	05.00	-0.9
VLI	2.57	146	ePn	39	11.00	1.7
SKO	3.11	4	ePn	39	19.50	2.6X

S.D. = 1.5 on 7 of 9 obs.

OCT 09, 1990 21h 57m 20.33±1.03s
10.203 N ± 9.0km 60.259 W ± 9.4km
DEPTH = 28.7 ± 6.9 km
4.7mb (1 obs.)
TRINIDAD (98)

TBH	0.84	289	eP	57	37.02	0.9
			eS	57	43.75	
BOT	1.06	335	eP	57	39.81	0.6
			eS	57	46.60	
TPR	1.10	333	eP	57	40.24	0.4
			eS	57	48.99	
PIG	1.11	329	eP	57	42.54	2.6
			eS	57	49.80	
TPP	1.18	276	eP	57	42.17	1.2
			eS	57	51.98	
TRN	1.21	292	eP	57	40.74	-0.6
			eS	57	49.76	
TCE	1.55	289	eP	57	45.90	-0.4
			eS	57	57.01	
GRW	2.38	325	eP	57	58.09	-0.2
			eS	58	25.03	
SVB	3.20	342	eP	58	08.80	-1.1
			eS	58	46.67	
SVV	3.23	343	eP	58	09.10	-1.3
			eS	58	47.74	
SOA	3.27	345	eP	58	10.77	0.0
			eS	58	50.22	
SLB	3.68	348	eP	58	16.34	-0.4
			eS	58	56.23	
CUM	3.86	274	iPc	58	18.40	-0.7
			iS	59	02.20	
SIV	26.04	182	iPc	02	53.80	0.7
ZOBO	27.43	197	P	03	05.00	-1.5
LKO	53.81	86	P	06	44.08	0.9

S.D. = 1.2 on 16 of 16 obs.

OCT 09, 1990 23h 36m 53.45±3.19s
34.773 N ±29.0km 22.886 E ±15.1km
DEPTH = 10.0km (geophysicist)
4.0mb (1 obs.)
MEDITERRANEAN SEA (400)

VAM	1.25	59	ePg	37	14.50	-2.1
VLI	1.94	1	ePb	37	27.70	0.9
NPS	2.29	77	ePb	37	33.00	1.1
ITM	2.52	342	ePb	37	41.00	5.8X
APE	3.14	42	ePn	37	44.00	0.1
ATH	3.26	12	ePn	37	45.00	0.0
KAP	3.60	76	ePn	37	51.00	0.6
VLS	3.87	332	ePn	37	53.00	-1.3
EVR	4.22	349	ePn	38	01.00	1.6
Izm	5.05	43	eP	38	32.00	21.0X
KZN	5.59	351	ePn	38	16.50	-2.3X
NB2	27.34	348	P	42	39.10	-1.1

0.5s 1.60nm 4.0mb

S.D. = 1.4 on 9 of 12 obs.

OCT 09, 1990 23h 51m 00.22±1.08s
39.326 N ±11.1km 27.907 E ±14.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.3 (ISK).

DST	0.62	63	iPg	51	12.00	-0.8
			eSg	51	22.00	
BNT	1.03	1	ePn	51	19.40	-0.3
Izm	1.05	209	ePn	51	20.10	0.0
IZI	1.57	50	iPn	51	29.40	1.1

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

OCT 10, 1990 00h 36m 33.13±1.53s
5.191 S ±19.8km 141.691 E ±12.3km
DEPTH = 33.0km (normal)
4.4mb (2 obs.)
PAPUA NEW GUINEA (202)

MNDI	2.18	116	eP	37	08.00	0.0
			eS	37	36.00	
PMG	6.85	128	eP	38	09.00	-4.9X
MTN	12.90	233	eP	39	37.50	0.5
	0.3s	73.00nm			6.2mb X	
			eS	41	57.00	
QIS	15.41	187	eP	40	08.00	-1.9
			e	42	45.40	
			e	44	34.40	
WB5	16.25	205	eP	40	18.00	-2.6X
			e	40	25.20	
			eS	43	08.00	
			e	48	41.50	

KNA	16.47	229	eP	40	27.00	3.6X
ASPA	19.84	201	eP	41	05.50	1.1
	1.0s	24.40nm			4.5mb	
	Z 14s	0.30um			5.4msz	
			eS	44	30.60	

BRS	24.47	156	iPd	41	51.30	0.0
WARB	25.36	213	eP	42	01.00	2.1X
	0.4s	4.00nm			4.4mb	
HYB	66.24	291	eP	47	20.00	-0.6

S.D. = 1.4 on 6 of 10 obs.

OCT 10, 1990 00h 41m 17.13±0.64s
31.496 N ± 4.1km 35.625 E ± 7.2km
DEPTH = 10.0km (geophysicist)
DEAD SEA REGION (373)

MKRJ	0.06	13	Pc	41	19.91	0.5
MASJ	0.25	19	Pc	41	22.78	0.4
LISJ	0.28	206	Pc	41	23.14	0.1
KFNJ	0.37	7	Pc	41	24.70	0.0
SALJ	0.51	6	Pc	41	27.18	-0.4
MDSJ	0.55	76	Pc	41	28.78	0.4
BURJ	0.76	12	Pc	41	32.33	0.3
JARJ	0.79	20	Pc	41	31.92	-0.6
CSTJ	0.97	112	Pc	41	35.23	-0.4
SHMJ	1.23	5	Pc	41	39.82	-0.2

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

OCT 10, 1990 01h 00m 05.50±0.14s
19.503 S ± 3.2km 66.618 W ± 3.2km
DEPTH = 266.0km (geophysicist)
5.8mb (64 obs.)
SOUTHERN BOLIVIA (125)

mb 6.4 (BRK), 6.3 (PAS). Felt (V) at Arica, (IV) at Tacopilla and (III) in the Antofagasta area, Chile. Also felt (III) at Arequipa, Peru. Depth from broadband displacement seismograms.

FAULT PLANE SOLUTION: P-Waves
NP1:Strike=351 Dip=80 Slip=-145
NP2: 254 56 -12
Principal Axes:

T P1g=16 Azm=118
P 31 218

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

RADIATED ENERGY
No. of sta: 7 Focal mech. F
Energy 4.3±1.6×10¹⁴ Nm

MOMENT TENSOR SOLUTION
Dep 271 No. of sta: 11
Moment Tensor; Scale 10¹⁸ Nm
Mrr=-3.41 Mtt=-1.79
Mff=5.19 Mrt=1.43
Mrf=-5.88 Mtf=-1.22

Principal axes:
T Vol= 8.47 P1g=27 Azm= 79
N -1.96 4 347
P -6.51 63 250

Best Double Couple:Mo=7.5×10¹⁸
NP1:Strike=179 Dip=18 Slip=-78
NP2: 346 72 -94

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 38C M.W.: 15S, 30C
Centroid Location:

Origin Time 01:00:12.9 0.2
Lat 19.435 0.02 Lon 66.60W 0.01
Dep 275.0 0.9 Half-duration 7.0
Moment Tensor; Scale 10¹⁸ Nm
Mrr=-2.66 0.06 Mtt=-1.47 0.08
Mff=4.13 0.08 Mrt=1.08 0.05
Mrf=-5.18 0.06 Mtf=2.53 0.07

Principal Axes:
T Vol= 7.28 P1g=26 Azm=103
N -0.85 27 358
P -6.43 51 229

Best Double Couple:Mo=6.9×10¹⁸
NP1:Strike=237 Dip=31 Slip=-28
NP2: 351 76 -118

CCH	2.16	12	iPd	00	52.50	1.1
CNCB	2.98	334	iPc	00	59.20	-0.5
LPB	3.27	334	iPc	01	03.00	0.2
ZOBO	3.52	336	Pc	01	04.50	-1.2
ANT	5.47	220	iPd	01	23.80	-4.3X
			iS	02	18.00	
ARE	5.54	302	iPc	01	26.40	-2.8
SIV	6.33	57	iPd	01	37.20	-1.6
CYA	8.93	175	iPd	02	08.00	-3.4X
RTLL	11.89	188	ePc	02	43.30	-5.2X
RTCB	12.09	189	iPd	02	47.00	-4.0X
ZON	12.14	188	eP	02	49.00	-2.5
			eS	04	49.00	
RTBS	12.37	191	e(P)	02	50.70	-3.6X
RTCV	12.43	188	e(P)	02	51.30	-3.8X
MDZ	13.47	188	eP	03	07.00	-1.0
			iS	05	37.00	
JACH	13.60	194	iPd	03	07.00	-2.5
ROCH	13.98	195	iP	03	11.50	-2.8
			i	05	36.80	
PEL	14.06	194	iPd	03	12.10	-3.0X
FCH	14.15	193	iPd	03	15.00	-1.5
			i	05	44.00	
SAN	14.35	194	iPd	03	16.00	-2.7
			iS	05	52.20	
PCH	14.48	193	iPc	03	18.00	-2.3
PPD	14.54	103	iPc	03	19.90	-1.0
LCCH	14.60	197	iPd	03	18.00	-3.6X
TACH	14.61	194	iPd	03	18.20	-3.5X
CHCH	14.81	193	iP	03	21.60	-2.6
			i	05	58.80	
LNV	15.01	196	eP	03	17.00	-9.6X
			i	03	22.50	
BAO	18.17	81	iPc	04	00.00	-1.2
BDF	18.24	81	ePc	04	00.55	-1.5
			ec	04	03.03	
			e	04	07.72	
			iS	07	17.93	
VAO	18.64	104	iPd	04	03.50	-2.5
			i	05	16.90	
			i	07	26.80	
BMA	21.19	103	eP	04	27.80	-3.4X
TUNG	21.38	326	eP	04	34.00	0.5
JFO	21.91	100	iPc	04	37.30	-0.9
			i	04	49.40	
			i	04	57.30	
VC1	22.02	327	eP	04	40.00	0.1
CAYA	22.43	329	eP	04	44.50	0.7
OTO	22.46	327	eP	04	45.20	1.2
QUR	22.48	327	eP	04	44.60	0.4
YANA	22.55	327	eP	04	45.60	0.6
COTA	22.82	328	eP	04	48.60	1.0
PSO	23.10	332	eP	04	50.00	0.0
BOG	25.07	342	iPd	05	09.00	0.8
			iS	09	18.00	

10d 01h

FUD	25.79	344	eP	05	13.00	-1.7
SOB1	26.90	71	iPc	05	22.90	-1.5
BMG	27.16	346	iPc	05	23.00	-3.8X
UAV	28.29	351	eP	05	35.40	-1.6
			IS	10	05.30	
CEOS	28.40	356	eP	05	35.40	-2.5
SDV	28.48	352	eP	05	40.40	1.7
PLAV	29.20	358	eP	05	42.60	-2.5
TOV	29.27	354	eP	05	45.30	-0.2
			iS	10	15.30	
OLLA	29.34	360	iP	05	43.80	-2.3
LLAV	29.79	360	eP	05	48.10	-2.0
CAR	29.82	359	eP	05	50.80	0.4
MORO	30.23	357	eP	05	53.80	-0.1
TCE	30.39	9	eP	05	51.77	-3.5X
TRN	30.40	10	eP	05	52.79	-2.5
FISA	30.69	355	eP	05	54.90	-3.0X
UPA	31.03	335	ePc+	06	00.30	-0.5
CAI	31.42	70	iPc	06	02.50	-1.7
GRW	31.84	9	eP	06	07.86	-0.1
SVB	32.99	10	eP	06	16.03	-1.8
SVV	33.04	10	eP	06	16.97	-1.2
SOA	33.11	10	eP	06	19.59	0.9
SLB	33.57	10	eP	06	20.94	-1.8
FDF	34.44	9	eP	06	27.60	-2.5
			S	12	22.50	
BBL	35.17	9	eP	06	34.00	-2.2
BPA	36.62	8	eP	06	45.00	-3.4X
NEV	36.63	6	eP	06	49.00	0.6
CPB	37.21	8	eP	06	49.99	-3.3X
CPD	37.31	1	P	06	51.30	-2.9
PORP	37.32	360	P	06	51.00	-3.2X
SJG	37.38	1	eP	06	51.50	-3.3X
TPX	42.49	322	iPc	07	37.92	1.3
AIA	45.75	179	eP	08	01.80	-0.1
EVV	47.10	321	iPc	08	03.00	-10.0X
ACX	48.72	316	iPd	08	26.20	0.7
LVM	48.74	321	iPc	08	24.59	-1.0
IIT	49.32	319	iPd	08	31.70	1.4
PPM	49.55	319	iPd	08	33.37	1.0
III	49.56	317	iPd	08	32.98	0.8
UNM	50.09	318	iPc	08	37.00	0.7
IJJ	50.74	318	(P)	08	28.73	-12.7X
MRX	51.64	317	(P)	08	48.47	1.0
SGS	54.05	346	P	09	03.50	-1.4
TKL	57.22	343	P	09	24.60	-2.8
			pP	10	28.50	290kmX
MZX	57.54	316	iPc	09	30.28	0.5
BLA	57.89	347	eP-	09	31.00	-1.1
	1.2s	296.88nm			5.8mb	
			epP	10	26.00	245kmX
MBO	59.35	59	iPd	09	40.50	-1.9
UYO	59.59	333	iPc	09	42.00	-1.7
GMTN	60.48	353	iP	09	48.10	-1.5
PNJ	60.50	353	eP	09	48.00	-1.7
			PcP	10	49.10	
TXNY	60.78	353	iP	09	50.80	-0.8
FVM	61.41	339	P	09	53.40	-2.4
	0.7s	748.30nm			6.4mb	
			pP	10	58.50	291kmX
TUL	61.65	333	iPd-	09	55.50	-2.0
	1.4s	197.90nm			5.5mb	
Z	22s	4.19um			5.6MsZ	
			e	11	04.20	
			e	17	59.00	
			LR	20	00.00	
BIX	61.73	333	eP	09	56.50	-1.5
SIO	61.73	333	iP	09	55.90	-2.1
HRV	61.86	356	ePc	09	56.60	-2.1
			ec	09	59.36	
			e	10	02.12	
			epPd	10	54.81	257kmX
			ed	10	57.85	

EPLA	81.76	42	iPc	11 55.80	-0.1		1.2s	145.80nm	5.8mb	CRZF	94.10	142	e(P)	12 55.00	0.1
STS	81.85	39	iPc	11 57.20	0.9		Z 20s	3.25um	5.7Msz				e	14 05.00	
ECOG	81.90	46	iPc	11 56.30	-0.5	GRR	89.38	37 eP	12 32.00	-1.0			ePP	16 40.00	
AFC	81.90	46	eP	11 56.70	-0.2	CAF	89.42	41 eP	12 32.50	-0.8			eSKS	23 10.00	
COR	82.06	323	eP	11 58.52	1.2	LSF	89.73	40 eP	12 33.80	-0.9			eSP	25 00.00	
			esPc	13 29.57		FLN	89.79	37 eP	12 33.80	-1.0			eSPP	25 45.00	
			iS	21 52.94			1.2s	185.95nm	5.9mb				eSS	30 10.00	
			e	22 50.88			Z 20s	3.50um	5.8Msz	CDF	94.19	40	eP	12 54.40	-0.9
			e	23 10.74		LDF	89.91	38 eP	12 34.50	-0.9					
			iS	23 42.47		YKA	90.04	340 eP	12 35.00	-0.7			TMA	94.24	42 ePd
			e	23 46.61			0.9s	160.00nm	5.9mb				MCT	94.30	52 P
FRS	82.18	119	iPd	11 58.00	-0.4	KRI	90.15	108 iPd	12 42.10	4.7X			MAO	94.30	47 P
	0.7s	113.01nm		5.7mb				i	13 49.20				LWI	94.37	94 iP
			e	21 53.00				i	16 09.00				PII	94.38	45 P
EBAN	82.22	45	iPc	11 58.30	0.0			i	22 54.20				ENN	94.39	37 eP
ERUA	82.41	40	eP	11 59.60	0.4	TCF	90.16	40 eP	12 35.70	-1.0				1.3s	131.00nm
LON	82.57	325	eP	11 59.74	-0.2	LBL	90.31	42 P	12 37.76	0.5					
			epPc	13 04.85	274kmX	MAF	90.35	40 eP	12 36.90	-0.6			FEL	94.42	41 eP
			esPc	13 31.89		PYM	90.40	41 P	12 37.90	0.0			ZLA	94.49	41 ePd
			eHPP	15 14.78		CIR	90.42	112 iPd	12 40.50	2.0			BDI	94.56	45 P
			ePP	15 16.44				i	13 47.50				LLS	94.62	42 ePd
ENIJ	82.66	47	iPc	12 00.60	0.0	AGO	90.62	41 P	12 38.61	-0.2			MDI	94.65	43 P
EDM	82.90	334	iPd	12 00.10	-1.4	BGF	90.68	40 eP	12 38.40	-0.6			SLE	94.67	41 ePd
EMON	82.90	39	eP	12 02.00	0.3	PLDF	90.88	41 P	12 40.12	0.1			MME	94.68	45 P
TOL	82.97	43	iPd	12 03.00	0.9	AVF	91.09	40 eP	12 39.90	-1.0			VDL	94.77	42 ePd
			iP	13 06.00	264kmX	GRC	91.16	40 P	12 40.82	-0.4			SAX	94.99	42 ePd
			eS	22 02.00		SSF	91.31	40 eP	12 40.80	-1.1			SAL	95.11	43 P
			iSKS	23 22.00		SMF	91.33	41 eP	12 41.10	-0.9			RMP	95.15	48 P
			iS	23 42.00		LRG	91.51	44 eP	12 43.00	0.1			MNO	95.19	52 P
			iSS	27 30.00			1.0s	156.25nm	5.9mb				PGD	95.24	45 P
			iSSS	30 40.00		LMR	91.56	44 eP	12 43.00	-0.1			OSS	95.28	42 ePd
RMW	83.01	326	P	12 03.00	0.8		1.0s	128.00nm	5.8mb				MNS	95.34	47 P
PNT	83.07	328	eP	12 02.00	-0.4	LBF	91.56	40 eP	12 42.00	-1.1			SFI	95.34	45 P
	0.8s	211.00nm		6.0mb		LOR	91.62	40 eP	12 42.30	-1.1			WTS	95.42	37 eP
GUD	83.31	43	eP	12 04.40	0.5		0.8s	73.45nm	5.7mb					0.9s	41.00nm
EVIA	83.33	45	eP	12 04.10	0.1		Z 20s	3.00um	5.7Msz	ASS	95.58	46 P			
MCW	84.31	326	P	12 09.20	0.6	FRF	91.74	44 eP	12 43.60	-0.4			TNS	95.64	39 ePd
PGC	84.61	326	eP	12 10.50	0.5		1.0s	96.00nm	5.7mb				WIT	95.68	36 eP
	1.1s	682.00nm		6.4mb		EKA	91.80	31 Pd	12 44.70	0.7			AZI	95.72	48 P
ETOR	84.75	43	iPc	12 11.00	-0.1		1.6s	126.90nm	5.7mb				AQU	95.83	47 P
ECHE	84.84	45	eP	12 11.50	0.0	DRV	91.81	190 iPc	12 46.60	2.6			SDI	95.89	48 P
ECRI	85.40	42	eP	12 15.30	1.1	CALN	91.98	44 P	12 45.20	-0.1			OGA	95.91	42 iPd
MAW	85.60	163	iPd-	12 15.00	0.2	MVIF	92.22	44 P	12 46.76	0.4				i	13 04.50
	0.9s	96.00nm		5.6mb		REVf	92.29	44 P	12 46.87	0.3			ARV	95.93	46 P
SLR	85.95	116	ePc	12 17.18	-0.3	AURF	92.33	44 P	12 46.52	-0.3			CTI	96.00	43 P
			ec	12 18.56		TOUF	92.33	44 P	12 47.26	0.3			SQTA	96.16	42 iPd
EVA	86.36	117	iPc	12 21.00	1.5	SBF	92.39	44 eP	12 46.60	-0.4				1.0s	145.00nm
	0.5s	225.35nm		6.3mb			0.8s	88.65nm	5.8mb						
EROQ	86.37	44	eP	12 19.90	1.0	BNI	92.40	43 P	12 48.00	0.8				i	13 05.50
BOH	86.59	42	P	12 22.04	2.0	RRL	92.41	43 P	12 48.18	0.8				i	14 10.80
ELYF	86.64	42	P	12 21.78	1.6	AUTN	92.44	44 P	12 47.67	0.2				i	15 11.30
ISSF	86.69	42	P	12 22.69	2.1	PZZ	92.44	43 P	12 47.87	0.5				i	15 24.60
MADF	86.74	42	P	12 21.93	1.3	STV	92.48	44 P	12 47.46	0.8				i	16 17.00
LHE	86.74	42	P	12 22.58	1.8	ENR	92.53	44 P	12 47.56	-0.2				i	16 23.60
ATE	86.78	42	P	12 22.54	1.7	DOI	92.53	43 P	12 48.90	1.2				i	16 56.50
ESCF	86.86	42	P	12 21.65	0.4	LPL	92.63	42 eP	12 48.40	0.1				i	23 20.00
BCAO	86.91	84	ePc	12 20.92	-1.2		1.0s	52.00nm	5.5mb					e	29 48.00
	0.8s	110.00nm		5.8mb		LPG	92.64	42 eP	12 48.50	0.1				i	29 52.40
			iPc	13 24.65	265kmX		1.0s	56.00nm	5.5mb				DUI	96.32	48 P
			ePP	15 43.33		IMI	92.71	44 P	12 48.38	-0.1			WATA	96.43	42 iPd
			eHPP	15 45.31		RSP	92.81	43 P	12 49.71	0.7				1.4s	184.00nm
			iS	22 19.00		ROB	92.85	44 P	12 48.89	-0.3					
			i	24 07.30		LSD	92.88	43 P	12 50.02	0.5			VVI	96.48	44 P
JAU	86.97	42	P	12 22.84	0.9	PGF	92.89	46 P	12 49.58	0.1			SGO	96.55	49 P
EPF	87.41	42	eP	12 24.10	0.2	EMS	92.99	42 ePd	12 51.20	1.3			FUR	96.55	41 iPc
BST	87.52	36	P	12 24.46	0.2	FIN	93.04	44 P	12 50.12	0.1				1.5s	152.00nm
ESEL	87.53	46	eP	12 24.90	0.4	CKI	93.17	44 P	12 51.00	0.4			MGR	96.58	50 P
BUL	88.12	111	iPd	12 28.30	0.3	DIX	93.30	42 ePd	12 52.90	1.4			FVI	96.93	43 P
	1.2s	282.03nm		6.0mb		DOU	93.34	38 P	12 49.80	-1.3			TDS	96.99	51 P
			i	13 36.80				pP	13 58.00	283kmX			CSI	96.99	50 P
			i	22 38.00				SKS	23 05.00				GRF	97.08	40 iPc
ECB	88.37	32	iPd	12 28.50	0.4			iScS	23 34.00					1.3s	73.00nm
	1.4s	190.00nm		5.8mb				PcPPP	34 53.30				Z 22s	1.80um	5.5Msz
ECP	88.47	32	iPd	12 27.80	-0.8	SNF	93.35	37 P	12 51.50	0.4			ROI	97.13	51 P
	1.3s	308.00nm		6.0mb		PCP	93.40	44 P	12 50.64	-1.0			ORI	97.20	50 P
JOZ	88.55	119	iPc	12 27.00	-2.7	HAU	93.46	40 eP	12 51.00	-0.8			TRI	97.26	44 iPc
	0.8s	14.93nm		4.9mb			1.0s	40.00nm	5.4mb					i	13 26.40
LFF	88.61	41	eP	12 28.90	-0.6		Z 20s	4.50um	5.9Msz					iP	14 14.00
ETER	88.69	44	e(P)	12 29.90	0.0	ORO	93.47	43 Pd	12 52.10	0.1				iPP	17 06.00
LPO	88.76	41	eP	12 29.50	-0.7	ORX	93.48	43 P	12 51.66	-0.4				iPP	18 04.00
	1.0s	84.00nm		5.6mb		UCC	93.52	37 P	12 53.00	1.1				eSKS	23 24.00
ETA	88.84	32	iPd	12 30.90	0.5			iSKS	23 05.00					eS	24 12.00
	1.3s	267.00nm		6.0mb		MMK	93.64	42 ePd	12 54.70	1.7				e	24 49.00
MFF	88.89	39	eP	12 29.90	-0.9	BSF	93.65	40 eP	12 51.90	-0.9				iSP	25 32.00
LPF	89.09	38	eP	12 30.60	-1.1		1.1s	56.15nm	5.6mb					i	26 56.00
	1.2s	187.45nm		5.9mb		BOB	94.08	44 Pd	12 55.40	0.6				eSSS	34 24.00
RJF	89.26	41	eP	12 31.70	-0.9	VAI	94.08	43 P	12 45.50	-9.1X			VOY	97.45	44 eP

10d 01h

RIY	97.54	45	eP	13	11.30	1.0
MOX	97.67	39	eP	13	11.00	0.2
	1.5s	51.00nm				5.6mb
Z	22s	4.00um				5.9MsZ
		eP	14	15.00		264kmX
CEY	97.70	44	eP	13	11.00	0.7
LJU	97.08	44	eP	13	10.50	-1.4
		e(PP)	17	10.00		
		eS	23	20.00		
		e(Ss)	24	16.00		
WET	97.90	41	eP	13	12.00	0.1
KHC	98.32	41	P	13	15.00	1.1
	1.4s	17.00nm				5.2mb
Z	17s	1.20um				5.5MsZ
N	16s	1.20um				
E	17s	1.00um				
		e	16	26.50		
		S	23	30.00		
CLL	98.72	39	eP	13	15.00	-0.6
	1.3s	42.00nm				5.7mb
Z	18s	2.00um				5.7MsZ
		e	14	26.00		
		eSKS	23	33.00		
		PKKP	30	14.00		
PTJ	98.77	44	eP	13	16.40	0.3
BRG	99.13	39	iP	13	18.60	1.1
	1.4s	36.00nm				5.6mb
		i	13	25.50		
		i	13	30.80		
		i	14	03.60		
		i	14	24.00		
		e	16	49.00		
		i	17	08.60		
		e	18	09.40		
		e	18	24.00		
		iSKS	23	32.00		
		iS	24	30.00		
		e	25	56.00		
		iPKKP	29	44.60		
		i	30	11.20		
PRU	99.20	40	eP	13	18.00	0.2
	2.0s	97.70nm				5.9mb
Z	18s	2.10um				5.7MsZ
N	17s	1.00um				
E	19s	1.50um				
		e	14	24.70		
		iS	23	34.50		
NPA	99.40	110	eP	13	21.50	1.9
		e	17	21.40		
SOP	99.72	43	iPc	13	20.60	0.4
VKA	99.75	42	eP	13	21.00	0.6
	0.8s	11.40nm				5.4mb
		e	17	28.00		
INK	99.82	340	eP	13	19.00	-1.2
	1.0s	33.00nm				5.7mb
		pP	14	27.00		282kmX
ZST	100.23	43	ePdiff	13	22.70	0.1
		e	16	40.20		
		e	17	25.10		
KSP	100.53	40	ePdiff	13	21.00	-2.9X
		ed	13	25.20		
MBC	100.69	349	ePdiff	13	30.50	6.5X
	1.0s	7.00nm				5.1mb
SRO	100.89	43	iPdiff	13	25.40	-0.1
		i	17	27.80		
		e	30	39.20		
NB2	101.14	29	Pdiff	13	26.80	0.5
	1.6s	32.30nm				5.6mb
BEO	101.47	46	ePdiff	13	30.00	1.9
HFS	102.00	30	ePdiff	13	34.70	4.6X
	1.7s	114.50nm				6.1mb
BZS	102.47	46	ePdiff	13	32.50	-0.1
SPC	102.51	42	ePdiff	13	35.00	2.1X
KRA	102.55	41	ePdiff	13	34.00	1.2
Z	20s	2.20um				5.7MsZ
E	20s	3.10um				
		e	17	00.00		
		eS	23	52.00		
		e	26	34.00		
FBA	103.79	334	ePdiff	13	37.50	-0.5
	0.9s	60.63nm				6.4mb
MLR	105.40	47	ePdiff	13	46.50	0.7
IMA	106.45	335	ePdiff	13		

TAB	119.61	57	e	19	22.00	
KER	120.03	61	e(PKP)	18	26.00	0.5
STK	122.19	208	iPKPd	18	33.00	6.6X
	1.0s	22.00nm			30.70	0.3
			i	20	05.20	
			i	21	41.00	
RMO	122.83	218	ePKP	18	30.50	-1.3
			e	20	10.50	
			e	21	44.00	
MUN	128.74	183	ePKP	18	42.00	-1.1
KLB	129.02	185	ePKP	18	43.00	-0.6
CTA	129.15	221	iPKPd	18	43.50	-0.7
	1.0s	100.00nm				
MAIO	130.15	59	ePKP	18	46.00	0.3
	0.8s	13.91nm				
MRWA	131.50	183	ePKP	18	37.50	-10.9X
OIS	132.62	214	ePKP	18	50.00	-0.8
ASPA	132.66	206	ePKP	18	33.00	-17.8X
Z	20s	1.20um				5.6Msz
			i	18	50.30	
			ePP	21	09.10	
			eSKP	21	54.40	
			ePKS	22	13.20	
			eSKS	25	35.70	
WARB	132.80	196	ePKP	18	32.00	-19.0X
	0.4s	5.00nm				
WB5	135.79	209	ePKP	18	44.10	-12.7X
			i	18	58.00	
			e	21	36.00	
			i	22	03.90	
NANU	138.14	183	ePKP	18	51.00	-10.1X
MBL	139.10	189	ePKP	18	53.40	-9.5X
KNA	141.84	204	ePKP	19	01.00	-6.9X
KSH	142.21	50	ePKP	19	06.00	-2.1X
POO	142.67	85	iPKPd	19	05.50	-3.8X
MTN	143.41	210	ePKP	19	07.00	-3.6X
KOD	144.15	100	ePKP	19	11.00	-1.3
KUSJ	144.70	319	PKP	19	10.30	-1.7
GBA	145.10	94	PKP	19	12.90	-0.6
ASAJ	145.38	322	ePKP	19	13.20	0.0
NDI	145.85	67	ePKPd	19	15.30	0.9
	0.5s	475.35nm				
HOQJ	145.97	319	ePKP	19	14.40	0.2
MRRJ	147.30	320	ePKP	19	17.50	1.2
WMQ	147.60	36	ePKP	19	18.97	2.1X
Z	24s	2.00um				5.8Mszx
			iP'df20	24	35	
OFUJ	148.75	315	PKP	19	21.00	3.1X
GUA	149.23	264	ePKP	19	22.50	2.4X
	0.9s	1552.94nm				
			pP	19	26.80	
GUMD	149.28	264	ePKP	19	22.50	2.3X
PJC	149.28	264	ePKP	19	22.20	2.0X
HIA	149.87	352	ePKPd	19	22.20	2.0X
			eP'df20	30	62	
			ePP	22	59.00	
			eHPP	23	00.33	
YAMJ	150.31	314	ePKP	19	27.30	6.2X
WDJ	151.55	335	ePKP	19	22.50	-0.3
MAJO	152.40	313	ePKPd	19	26.19	1.9
MAT	152.40	313	(PKP)	19	26.00	1.7
Z	20s	2.48um				6.0Msz
CN2	153.75	340	PKP	19	27.00	1.1
			e	19	46.00	
SNY	156.12	341	iPKPd	19	30.00	0.9
Z	24s	1.90um				5.8Mszx
N	32s	2.30um				
			e	19	57.00	
			pPKP	20	36.00	
			sPKP	21	00.00	
			PP	23	36.00	
GTA	156.96	28	iPKPd	19	33.00	2.5X
Z	32s	2.30um				5.8Mszx
E	16s	1.40um				
			SKKS	30	06.00	
			SS	43	13.00	
SHK	157.27	315	ePKP			

	Z	22s		0.90um		5.6ms
	N	13s		1.60um		
	E	13s		1.50um		
				pPKP	20 15.00	
				PP	23 55.00	
BJI	159.39	354		ePKP	19 35.45	2.5X
				ePKPab20	11.92	
				ePKPab20	12.42	
				eHP*ab20	12.58	
				pP	23 52.00	
IPM	160.89	139		ePKPc	19 36.90	1.6
	1.0s	35		30nm		
				e	20 24.90	
LZH	161.47	25		ePKP	19 38.06	2.5X
				ePKPab20	23.86	
TIY	161.84	2		PKPc	19 37.20	1.5
	Z 27s			2.50um		
	E 22s			2.60um		
				pPKP	20 46.00	
				PP	24 07.00	
				SS	44 06.50	
TIA	163.03	350		PKP	19 37.20	0.3
				e	20 26.00	
				pPKP	20 46.00	
XAN	164.99	14		PKP	19 40.00	1.2
	E 11s			1.90um		
				pPKP	20 51.00	
CD2	165.70	36		PKP	19 40.80	1.3
	Z 22s			4.00um		
	E 11s			2.30um		
CHTO	166.34	90		ePKP	19 39.70	-0.5
				eHP*ab20	41.85	
				ePKPab20	42.68	
				ePKPab20	43.16	
KKM	166.34	192		ePKPc	19 41.80	1.3
SSE	166.48	330		PKPc	19 42.50	2.5X
	Z 20s			1.40um		
				e	20 45.00	
				PP	24 32.00	
				SS	44 50.00	
NJ2	166.57	340		PKPd	19 42.50	2.5X
				e	20 44.50	
				iPP	24 30.00	
				SS	44 50.00	
KMI	168.68	58		ePKP	19 44.31	2.3X
	Z 24s			2.80um		
				i	20 49.42	
				e	21 55.36	
				pP	24 46.00	
				e	31 06.00	
WHN	168.97	356		ePKP	19 43.50	1.8
				e	20 50.50	
GYA	170.72	41		PKP	19 43.80	0.8
				e	21 01.00	
				PP	24 56.00	
				SKKS	31 16.00	
QZH	172.75	319		PKPc	19 44.00	0.4
				pPKP	20 52.00	
				e	21 14.00	
				PP	25 00.00	
GZH	176.43	1		ePKP	19 45.00	0.3
OIZ	176.62	97		PKP	19 49.40	4.5X
				PP	25 26.00	
				SKKS	31 46.00	
S.D. = 1.2 on 370 of 429 obs.						
OCT 10, 1990 01h 01m 32.30± 1.21						
4.769 S ± 5.3km 126.820 E ± 9.9km						
DEPTH = 31.6 ± 10.1 km						
5.2mb (13 obs.)						
BANDA SEA (280)						
AAI	1.74	52		eP	02 01.00	0.2
				eS	03 44.00	
MNI	6.48	342		eP	03 04.00	-4.0
				eS	04 20.50	
MTN	9.09	152		eP	03 44.50	0.2
KNA	11.08	170		iPc	04 09.90	-1.8
	0.6s	46				

Z 14s 1.10um 3.8Msz
 OIS 20.02 143 iPd 06 04.70 -0.8
 PMG 20.69 104 eP 06 16.00 3.5X
 1.0s 80.00nm 5.1mb
 NANU 20.79 211 eP 06 13.30 -0.1
 WARB 21.30 180 eP 06 20.00 1.4
 0.4s 18.00nm 4.8mb
 MEKA 23.12 199 eP 06 38.00 1.3
 CTA 24.28 130 iPd 06 52.90 4.8X
 1.3s 146.15nm 5.4mb
 1.0s 11 16.00
 RAB 25.28 90 eP 07 04.00 6.3X
 GUMO 25.56 44 eP 07 09.00 8.7X
 IPM 27.39 289 ePc 07 18.40 1.3
 1.0s 27.70nm 4.9mb
 PSI 28.84 284 ePc 07 30.60 0.4
 STK 30.32 155 iPd 07 44.90 1.6
 0.6s 7.00nm 4.6mb
 1.0s 13 39.70
 BWA 35.66 149 eP 08 34.40 4.7X
 CHTO 36.10 311 iPd 08 33.80 0.3
 0.6s 23.85nm 5.3mb
 CAN 36.66 149 eP 08 42.10 4.0X
 GYA 36.67 329 iPd 08 38.60 0.3
 1.0s 14 22.00
 WHN 37.08 342 eP 08 43.20 1.6
 NJ2 37.39 349 eP 08 44.40 0.3
 KMI 37.02 323 Pc 08 49.50 1.3
 1.5s 60.00nm 5.2mb
 CD2 41.76 330 P 09 20.30 -0.2
 XAN 42.14 338 P 09 22.80 -0.8
 MAT 42.45 14 (P) 09 26.00 -0.1
 TIY 44.33 344 eP 09 40.80 -0.6
 LZM 45.99 334 eP 09 55.00 0.3
 1.9s 84.00nm 5.3mb
 MDJ 49.22 3 Pc 10 20.60 1.0
 1.0s 20.00nm 5.1mb
 GTA 50.53 333 P 10 29.40 -0.5
 1.0s 10.00nm 4.8mb
 KOD 51.36 287 eP 10 34.50 -2.3
 HYB 52.50 296 eP 10 43.00 -2.1
 NDI 58.13 308 iPd 11 22.00 -3.5X
 0.5s 14.08nm 5.3mb
 WMO 59.83 328 P 11 36.20 -1.0
 MAIO 74.83 309 eP 13 11.00 -0.9
 ISA 112.78 53 ePKP 20 22.00 13.9X
 MWC 113.38 55 ePKP 20 10.00 0.5
 CLC 113.45 53 ePKP 20 21.00 11.6X
 SBB 113.48 54 ePKP 20 13.00 3.5X
 RVR 113.98 55 ePKP 20 07.00 -3.5X
 GSC 114.18 53 ePKP 20 10.00 -0.9
 TPC 115.04 55 ePKP 20 27.00 14.4X
 S.D. = 1.2 on 32 of 45 obs.
 OCT 10, 1990 01h 08m 44.55±0.91s
 37.332 N ± 0.7km 20.732 E ± 6.8km
 DEPTH = 10.0km (geophysicist)
 IONIAN SEA (399)
 ML 3.9 (ATH).
 VLS 0.85 352 ePn 09 00.00 -1.0
 ITM 0.97 99 ePn 09 02.00 -0.9
 VLI 1.87 108 ePb 09 18.20 1.4
 ATH 2.45 74 ePn 09 28.00 2.8X
 SRN 2.61 348 ePn 09 28.10 0.7
 LSK 2.82 358 ePn 09 31.00 0.5
 TPE 3.01 349 ePn 09 33.00 -0.1
 KZN 3.08 15 ePn 09 35.00 0.8
 VLO 3.28 343 ePn 09 42.40 5.5X
 VAM 3.39 123 ePn 09 34.50 -4.1X
 BERA 3.42 350 ePn 09 40.60 1.7
 LCI 3.70 325 P 09 42.40 -0.5
 OHR 3.77 1 eP 09 44.00 -0.1
 1.0s 13 25.00
 1.0s 26 22.00
 CZI 4.08 299 P 09 58.80 10.5X
 1.0s 10 30.80
 CSI 4.25 306 P 10 01.70 10.9X
 1.0s 10 44.60
 ATN 4.26 283 P 09 49.00 -1.9
 ORI 4.32 310 P 09 56.00 4.2X
 MEU 4.64 269 P 09 56.30 -0.1
 SKO 4.67 7 iPd 09 55.00 -1.7
 1.0s 10 17.30
 1.0s 11 40.00
 1.0s 13 28.50

i 14 29.00
 i 17 40.00
 i 18 39.00
 iS 23 43.00
 i 25 39.00
 i 27 53.00
 i 40 40.00
 MMB 4.84 28 iPd 09 58.00 -1.2
 KKB 4.88 21 eP 09 38.00 -21.7X
 SGO 5.31 309 P 10 08.10 2.3
 VTS 5.59 19 eP 10 10.00 0.2
 S.D. = 1.3 on 16 of 23 obs.
 ? OCT 10, 1990 01h 59m 55.81±4.86s
 5.452 N ± 35.0km 126.053 E ± 30.0km
 DEPTH = 135.9 ± 30.7 km
 4.5mb (3 obs.)
 MINDANAO, PHILIPPINE ISLANDS (259)
 MNI 4.16 197 eP 00 59.00 0.3
 AAI 9.33 167 eP 01 53.50 -14.8X
 MTN 18.87 165 eP 04 07.00 -1.2
 WBS 26.47 162 eP 05 21.00 -1.1
 NANU 29.68 200 eP 05 51.20 0.2
 ASPA 29.94 165 iPd 05 52.50 -0.8
 0.5s 8.40nm 4.7mb
 WARB 31.45 179 eP 06 07.00 0.5
 MRWA 35.80 195 eP 06 44.00 0.2
 STK 39.97 159 iPd 07 18.80 0.3
 0.6s 6.00nm 4.5mb
 BWA 44.93 154 eP 08 01.70 2.8X
 CAN 45.94 154 eP 08 08.80 2.0
 GBA 48.55 283 P 08 27.00 -0.4
 0.5s 1.90nm 4.1mb
 BUD 97.38 319 eP 13 28.00 13.1X
 S.D. = 1.1 on 10 of 13 obs.
 OCT 10, 1990 04h 17m 38.77±1.40s
 42.064 N ± 5.0km 126.372 W ± 13.6km
 DEPTH = 10.0km (geophysicist)
 4.3mb (5 obs.)
 OFF COAST OF OREGON (30)
 FHC 2.19 124 eP 18 14.60 -1.2
 LBFM 3.43 101 eP 18 34.00 0.4
 GROR 3.83 30 P 18 39.14 0.1
 TCO 4.05 58 P 18 42.22 -0.1
 KMOR 4.13 29 P 18 42.97 -0.4
 GT2 4.29 43 P 18 45.97 0.3
 PGO 4.43 39 P 18 48.15 0.6
 ORV 4.47 123 eP 18 48.00 0.0
 NLO 4.54 27 P 18 49.71 0.6
 TDH 4.63 44 P 18 50.08 -0.5
 VLL 4.81 43 P 18 54.15 1.2
 VFP 4.82 46 P 18 55.75 2.5X
 RVW 4.85 31 P 18 53.91 0.4
 VIPM 4.86 58 P 18 52.42 -1.4
 LVP 4.92 34 P 18 54.32 -0.2
 BMW 4.95 26 P 18 54.53 -0.5
 MTMW 4.97 36 P 18 54.66 -0.6
 1.0s 19 48.83
 APM 5.00 41 P 18 56.57 1.0
 FL2 5.04 34 P 18 56.24 -0.1
 JLK 5.09 35 P 18 56.47 -0.4
 SHW 5.09 34 P 18 57.14 0.2
 CDFW 5.11 36 P 18 56.80 -0.4
 ERK 5.14 33 P 18 57.66 0.0
 SOSW 5.17 35 P 18 59.20 1.1
 GULW 5.17 40 P 18 58.58 0.4
 CZM 5.18 31 P 18 58.49 0.4
 TDL 5.22 33 P 18 58.67 -0.2
 APW 5.31 29 P 19 00.30 0.3
 VGB 5.32 48 eP 18 59.80 -0.4
 KOSW 5.32 33 P 19 00.40 0.2
 ASR 5.34 38 P 19 00.19 -0.4
 CPW 5.43 24 P 19 01.35 -0.3
 LMW 5.45 31 P 19 02.51 0.4
 GLK 5.65 36 P 19 04.65 -0.3
 LON 5.71 33 P 19 05.51 -0.2
 REMR 5.75 33 P 19 06.54 0.1
 GHW 5.77 29 P 19 07.24 0.8
 WPW 5.78 35 P 19 06.33 -0.4
 RVC 5.80 31 P 19 07.24 0.2
 JBO 5.82 52 P 19 07.20 -0.1
 GMW 6.05 24 eP 19 09.50 -0.9
 HDW 6.06 22 P 19 10.76 0.1
 NAC 6.13 39 P 19 12.17 0.6

RMW 6.30 30 eP 19 14.00 0.0
 HTW 6.60 28 P 19 17.86 -0.4
 JCW 6.89 26 P 19 21.82 -0.4
 ETW 7.01 36 P 19 23.35 -0.7
 RPW 7.24 27 P 19 26.99 -0.3
 PNT 8.65 31 eP 19 47.00 0.1
 0.5s 4.00nm 5.0mb
 GOL 16.06 91 eP 21 25.40 -1.0
 ANMO 17.11 108 eP 21 41.00 1.3
 ALO 17.11 108 eP 21 40.00 0.3
 1.3s 6.25nm 3.6mb
 FFC 20.43 43 eP 22 18.00 -0.6
 0.8s 24.00nm 4.6mb
 YKA 21.62 15 eP 22 33.70 3.0X
 0.8s 7.60nm 4.2mb
 MEO 22.89 99 eP 22 44.40 0.9
 TUL 24.47 94 eP 23 00.70 1.8X
 1.3s 8.40nm 4.2mb
 S.D. = 0.6 on 53 of 56 obs.
 ? OCT 10, 1990 04h 30m 23.72±1.05s
 19.600 S ± 18.2km 66.928 W ± 25.9km
 DEPTH = 292.8 ± 31.3 km
 SOUTHERN BOLIVIA (125)
 CCH 2.33 19 iPd 31 13.30 0.0
 1.0s 31 47.50
 CNCB 2.95 340 P 31 19.80 0.3
 1.0s 32 03.00
 LPB 3.25 340 eP 31 27.00 4.6X
 ZOBO 3.50 341 ePc 31 25.00 -0.2
 1.0s 32 11.00
 ANT 5.22 218 eP 31 44.00 0.0
 1.0s 32 43.50
 ARE 5.35 305 iPd 31 43.80 -2.1X
 1.0s 32 48.00
 SIV 6.63 58 iPd 31 57.00 -4.2X
 VAO 18.90 104 (P) 34 25.00 0.0
 S.D. = 0.4 on 5 of 8 obs.
 OCT 10, 1990 04h 40m 22.77±1.16s
 42.135 N ± 5.0km 125.986 W ± 12.0km
 DEPTH = 10.0km (geophysicist)
 4.3mb (4 obs.) 4.0Msz (1 obs.)
 OFF COAST OF OREGON (30)
 FHC 2.01 131 eP 40 55.80 -1.3
 LBFM 3.16 103 eP 41 14.60 0.8
 KMOR 3.94 26 P 41 24.12 -0.5
 GT2 4.05 41 P 41 26.79 0.7
 PGO 4.20 36 P 41 28.91 0.7
 ORV 4.27 126 eP 41 29.00 -0.3
 NLO 4.35 24 P 41 30.29 -0.2
 TDH 4.38 43 P 41 31.36 0.4
 VLL 4.56 42 P 41 34.50 1.0
 VIPM 4.58 57 P 41 33.39 -0.4
 CROR 4.61 50 P 41 34.51 0.3
 RVW 4.64 29 P 41 34.98 0.4
 LVP 4.70 32 P 41 35.51 0.0
 MTMW 4.74 34 P 41 35.49 -0.6
 APM 4.76 39 P 41 37.02 0.8
 BMW 4.77 24 e(P) 41 34.20 -2.2
 FL2 4.83 32 P 41 37.57 0.2
 JLK 4.87 33 P 41 37.27 -0.5
 SHW 4.87 32 P 41 38.46 0.5
 HSR 4.88 33 P 41 38.62 0.6
 CDFW 4.89 34 P 41 37.52 -0.5
 ESD 4.91 33 P 41 39.40 0.9
 ERK 4.92 31 P 41 38.34 -0.3
 GULW 4.94 38 P 41 39.14 0.3
 SOSW 4.95 33 P 41 39.74 0.8
 CZM 4.97 29 P 41 39.23 0.0
 VGB 5.06 46 eP 41 40.00 -0.5
 APW 5.11 27 P 41 42.31 1.2
 ASR 5.11 37 P 41 41.35 0.1
 KOSW 5.11 31 P 41 41.51 0.3
 LMW 5.25 29 P 41 43.42 0.2
 CPW 5.25 22 P 41 42.07 -1.1
 GL2 5.33 42 P 41 44.49 0.1
 GLK 5.43 34 P 41 45.63 -0.1
 LON 5.50 32 P 41 46.39 -0.3
 WPW 5.56 33 P 41 47.23 -0.4
 RVC 5.60 29 P 41 48.35 0.2
 FMW 5.70 31 P 41 49.66 0.0
 GMW 5.87 22 eP 41 50.50 -1.4
 ARN 5.88 143 eP 41 49.00 -3.1
 MXC 6.03 41 P 41 53.86 -0.3

10d 04h

RMW 6.10 28 eP 41 54.50 -0.6
 TBM 6.33 36 P 41 56.57 -1.9
 HTW 6.41 26 P 41 58.77 -0.8
 WAH2 6.52 43 P 42 00.91 -0.1
 LOCW 6.56 43 P 42 04.47 2.9
 LNOR 6.69 53 P 42 03.65 0.1
 JCW 6.70 24 P 42 03.16 -0.5
 ETW 6.78 34 P 42 05.07 0.2
 TNP 7.84 118 eP 42 23.50 3.7X
 PNT 8.45 30 eP 42 26.00 -2.0
 LRM 10.43 65 eP 42 53.10 -2.5
 GOL 15.77 92 eP 44 05.50 -1.2
 ANMO 16.86 109 eP 44 22.80 2.3

1.0s 1.25nm 3.0mb X
 ALO 16.86 109 eP 44 21.00 0.4
 1.2s 3.91nm 3.4mb
 FFC 20.18 43 iPd 44 59.40 -0.6
 0.8s 16.00nm 4.4mb
 YKA 21.48 14 eP 45 14.80 1.5
 1.0s 10.80nm 4.2mb
 MEO 22.61 100 iPd 45 26.30 1.4
 SIO 23.87 96 eP 45 38.80 1.7
 PMR 23.92 332 eP 45 41.20 3.9X
 TUL 24.19 95 ePd 45 41.90 1.8
 1.4s 23.90nm 4.6mb
 Z 18s 0.41um 4.0Msz
 LR 54 40.00
 FBA 25.96 339 e(P) 45 58.00 1.3
 S.D. = 1.1 on 60 of 62 obs.

& OCT 10, 1990 05h 37m 23.20s
 41.157 N 125.513 W
 DEPTH = 5.0km
 OFF COAST OF NORTHERN CALIFORNIA(34)
 <BRK>. ML 3.0 (BRK).

FHC 1.21 107 iPc 37 44.50 -1.7
 IS 37 59.70
 WDC 2.33 103 iPd 38 00.70 -2.1
 eS 38 28.30
 LBFM 2.74 85 eP 38 07.70 -1.1
 MIN 3.08 104 eP 38 10.90 -2.6
 eS 38 47.50
 ORV 3.46 116 eP 38 15.70 -3.1
 5 obs. associated

OCT 10, 1990 05h 54m 53.54±0.07s
 23.497 S ± 2.5km 179.029 E ± 2.5km
 DEPTH = 548.5km (geophysicist)
 6.0mb (58 obs.)

SOUTH OF FIJI ISLANDS (171)
 mb 6.6 (PAS), 6.5 (BRK). Depth
 from broadband displacement
 seismograms.
 FAULT PLANE SOLUTION: P-Waves
 NP1:Strike=135 Dip=73 Slip=-90
 NP2: 315 17 -90
 Principal Axes:
 T P1g=28 Azm=225
 P 62 45

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

RADIATED ENERGY

No. of sta: 8 Focal mech. M
 Energy 2.8±0.7*10**12 Nm

MOMENT TENSOR SOLUTION

Dep 562 No. of sta: 10
 Moment Tensor; Scale 10**18 Nm
 Mrr=-1.23 Mtt= 1.04
 Mff= 0.19 Mrt=-0.31
 Mrf= 0.55 Mtf=-0.35

Principal axes:

T Vol= 1.27 P1g=11 Azm=204
 N 0.17 14 297
 P -1.43 72 76

Best Double Couple:Mo=1.3*10**18
 NP1:Strike=276 Dip=36 Slip=-115
 NP2: 126 58 -73

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
 L.P.B.: 15S, 35C
 Centroid Location:
 Origin Time 05:55: 3.2 0.4
 Lat 23.08S 0.04 Lon 178.93E 0.03

Dep 575.1 1.4 Half-duration 4.0
 Moment Tensor; Scale 10**18 Nm
 Mrr=-1.30 0.03 Mtt= 1.10 0.04
 Mff= 0.20 0.05 Mrt=-0.21 0.04
 Mrf= 0.48 0.04 Mtf=-0.40 0.04

Principal Axes:

T Vol= 1.30 P1g= 8 Azm=203
 N 0.14 13 295
 P -1.44 74 82

Best Double Couple:Mo=1.4*10**18

NP1:Strike=278 Dip=38 Slip=-112
 NP2: 125 55 -73

SVA 5.38 354 iPd 56 28.40 1.2
 e 56 54.00
 eS 57 45.40
 VUN 5.49 354 iPd 56 28.50 0.3
 NDF 5.90 345 ePc 56 36.50 4.6X
 SGE 5.97 350 eP 56 34.50 1.8
 RAO 6.35 155 P 56 40.50 4.5X
 S 58 01.00
 MBU 6.50 357 iPc 56 38.80 1.3
 NDE 6.88 2 ePc 56 41.80 0.6
 YSA 6.90 348 eP 56 42.20 0.9
 BKM 11.64 298 iPc 57 30.50 1.5
 DZM 11.70 275 iPc 57 32.00 2.4
 IS 59 46.00
 ScP 05 12.10

HBZ 14.07 182 eP 57 52.80 -0.5
 0.3s 362.00nm 6.3mb

PUZ 14.54 182 P 57 57.40 -0.7
 S 00 27.50

WLZ 14.60 191 eP 58 01.90 3.3X
 NOZ 15.10 183 P 58 03.60 0.1
 WHH 15.49 187 P 58 06.90 -0.6
 PGZ 17.23 187 Pc 58 24.10 -0.2
 MNG 17.33 189 Pc 58 24.60 -0.7
 S 01 13.30

KIW 17.66 190 P 58 27.90 -0.6
 MTW 17.86 189 P 58 29.70 -0.7
 CAW 17.87 190 P 58 29.30 -1.2
 MRW 18.05 191 P 58 32.60 0.4
 BLW 18.07 189 P 58 32.40 0.0
 WEL 18.09 190 P 58 34.10 1.5
 TCW 18.11 192 P 58 33.30 0.5
 CCW 18.64 191 P 58 38.70 0.8
 THZ 18.92 194 P 58 41.30 0.7
 KHZ 19.41 192 P 58 44.80 -0.3
 0.2s 533.00nm 6.8mb

LTZ 20.04 195 P 58 50.80 -0.2
 MQZ 20.83 193 Pc 58 58.10 -0.1
 S 02 14.40

MMCZ 22.93 198 Pc 59 17.20 -0.2
 MHZ 22.94 198 P 59 17.10 -0.4
 TLC 23.11 198 P 59 19.20 0.1
 BRS 24.01 255 iPc 59 29.50 2.3
 e 00 20.00
 eS 03 07.00
 iScP 05 39.00
 iScS 09 29.00

COO 25.14 248 iPc 59 39.60 2.3
 i 00 54.00
 i 05 41.20
 e 09 33.80

RIV 26.46 241 ePc 59 52.00 3.3X
 e 02 28.00
 e 03 48.00
 i 06 36.00

RMO 27.57 257 iP 00 00.00 1.5
 i 01 30.50
 i 02 58.60
 e 04 05.00
 i 05 48.50

CNB 28.29 239 iPd 00 07.30 2.5
 iPcP 03 02.20
 eS 04 15.00
 eScP 05 50.00

CAN 28.58 239 iPc 00 10.20 2.9
 i 01 43.00
 i 04 23.00

BWA 28.81 241 iP 00 10.00 0.7
 TBI 28.89 96 iP 00 10.50 0.5
 1.0s 865.00nm 6.3mb

AFR 29.77 84 iP 00 17.20 -0.4
 PAE 29.92 85 iP 00 18.40 -0.5
 PPT 29.95 85 iP 00 18.90 -0.3
 1.1s 1405.00nm 6.5mb

PPN 30.09 85 iP 00 20.00 -0.3
 TVO 30.18 85 iP 00 21.00 -0.2
 CMS 30.42 248 iP 00 23.60 0.5
 i 05 57.30
 i 09 55.30

CTA 30.58 270 iPd 00 25.20 0.6
 1.0s 568.00nm 6.2mb
 iPcP 03 06.20
 iS 04 44.00
 iScP 05 58.00
 iScS 09 57.00

QLP 31.62 257 iPc 00 34.60 1.4
 i 06 03.60
 i 00 39.00 0.1

PMO 32.29 81 iP 00 39.90 -0.3
 1.1s 1180.00nm 6.4mb
 VAH 32.45 81 iP 00 39.90 -0.3
 1.1s 1035.00nm 6.4mb

TPT 32.54 81 iP 00 41.10 0.0
 1.1s 2365.00nm 6.7mb
 RUV 32.69 81 iP 00 42.30 0.0
 1.1s 1845.00nm 6.6mb

PMG 33.52 289 iPc 00 49.50 0.2
 0.8s 14.93nm 4.7mb
 STK 34.05 247 iPc 00 56.10 2.4
 1.4s 305.00nm 5.7mb

QIS 36.59 267 iPc 01 15.30 0.6
 e 06 19.00
 ADE 36.77 243 iPc 01 18.00 1.9
 1.0s 500.00nm 6.1mb

ASPA 41.23 260 iPd 01 53.00 0.6
 1.0s 467.10nm 6.0mb
 Z 22s 1.40um 4.8Msz

WB5 41.53 266 iPd 01 54.80 0.0
 iScP 06 39.00
 RKT 42.10 99 iP 01 59.80 0.6
 1.2s 450.00nm 5.9mb

FORR 45.58 249 iPc 02 15.10 -11.1X
 0.4s 45.00nm
 MTN 46.54 274 eP 02 33.00 -0.7
 WARB 47.35 255 eP 02 39.30 -0.6
 0.3s 27.00nm 5.3mb

e 07 03.70
 e 08 52.00
 KNA 47.77 270 iPd 02 43.60 0.5
 GUA 49.68 314 eP 02 56.70 -0.6
 0.8s 614.93nm 6.2mb

GUMO 49.75 314 eP 02 57.20 -0.6
 PJG 49.75 314 eP 02 57.00 -0.8
 HON 49.85 28 P 02 58.10 -0.3
 KIP 49.93 28 eP 03 01.56 2.6
 eS 09 27.78

OPA 50.17 28 P 02 59.70 -1.0
 COOL 51.53 248 eP 03 10.30 -0.5
 AAI 52.85 284 eP 03 20.50 0.1
 KLB 54.32 247 iPc 03 31.60 0.9
 MEKA 54.45 253 eP 03 30.80 -0.9
 MBL 54.47 260 eP 03 31.00 -0.9
 0.3s 53.00nm 5.3mb

NWAO 54.59 245 eP 03 32.90 0.3
 eS 10 36.00
 RKG 54.65 244 eP 03 32.50 -0.4
 0.6s 154.00nm 5.5mb

SBA 54.73 183 iPc 03 35.90 3.0
 eS 10 39.20
 BAL 55.35 248 eP 03 37.40 -0.5
 MUN 55.58 246 eP 03 39.00 -0.4
 MRWA 56.19 250 eP 03 43.10 -0.6
 0.4s 38.00nm 5.1mb

NANU 58.00 257 iPd 03 56.00 -0.1
 0.3s 28.00nm 5.1mb
 KKM 67.93 287 ePd 04 59.80 -0.1
 0.6s 121.90nm 5.6mb

KAKJ 69.81 327 P 05 10.30 -0.2
 CHJJ 70.28 326 P 05 13.20 -0.1
 IIDJ 70.40 325 P 05 13.70 -0.4
 WKYJ 70.70 323 iP+ 05 15.40 -0.5
 MAJO 71.06 326 eP 05 16.99 -0.9
 eS 13 50.33
 e 14 28.65
 eS 17 16.01

MAT 71.06 326 iPd 05 17.30 -0.6
 1.1s 594.94nm 6.0mb
 eS 13 40.00

NIIJ	71.21	327 P	05 18.40	-0.3			sS	19 29.00			iPpc	08 52.20	538kmX
KAGJ	71.29	318 eP	05 19.70	0.4	MWC	82.85	48 ePd	06 22.00	0.2		e	08 58.49	
MTMJ	71.31	326 P	05 19.40	0.0	BAR	82.95	50 ePd	06 23.00	0.9		iSPc	09 47.82	
OFUJ	71.39	330 eP	05 19.50	-0.2	FHC	83.01	40 iPd	06 23.80	1.5		iSKS	16 28.58	
TKSJ	71.40	322 P	05 20.30	0.5	CN2	83.04	324 iPd	06 23.00	0.7		eS	16 58.63	
YAMJ	71.43	328 P	05 20.20	0.2		1.0s	500.00nm		6.0mb	DUG	89.61	45 P	06 54.20 0.3
TSRJ	71.47	324 P	05 20.50	0.3			SKS	15 47.00			1.1s	167.76nm	5.9mb
KUMJ	72.26	319 eP	05 24.90	0.0			S	15 58.00		TOA	89.73	16 iPd	06 54.00 0.1
SHKJ	72.58	321 iPd	05 26.60	-0.1	PLM	83.19	49 ePd	06 24.00 0.5		III	89.74	70 iPd	06 56.50 1.5
	1.1s	632.91nm		6.1mb			e	08 26.00		CRX	89.98	69 iPd	06 58.00 1.8
YONJ	72.60	322 P	05 27.00	0.2	RVR	83.19	49 ePd	06 23.00 -0.3		IJJ	90.08	69 IP	06 58.00 1.1
SHNJ	73.20	320 eP	05 29.30	-0.9			e	08 23.00		CD2	90.12	304 P	06 57.80 1.5
HOOJ	73.39	333 P	05 32.40	1.3	SBB	83.27	48 ePd	06 24.00 0.2			1.2s	400.00nm	6.2mb
KUSJ	73.41	334 P	05 31.50	0.3			e	08 23.00				SKS	16 33.00
MRRJ	74.37	332 P	05 36.90	0.4	PEC	83.28	49 P	06 24.00 0.2		BTO	90.38	315 IPc	06 58.50 1.1
SAP	74.77	332 eP	05 40.00	1.2		1.0s	166.67nm		5.5mb	UNM	90.38	69 IPc	07 00.00 2.0
ASAJ	75.09	334 P	05 42.20	1.6	TIA	83.31	314 Pd	06 24.00 1.0		PNT	90.67	35 ePd	06 59.00 0.6
ADK	75.15	3 iPd	05 39.80	-0.8		1.2s	780.00nm		6.1mb		0.9s	452.00nm	6.5mb
	1.3s	3496.30nm		6.6mb	IKP	83.33	50 eP	06 26.10 2.0		PPM	90.75	70 IP	07 01.00 1.0
OZH	75.82	305 eP	05 45.50	0.5	FRI	83.34	45 iPd	06 24.50 0.5		IIT	91.00	70 iPd	07 02.50 1.6
	8.0s	1300.00nm		5.4mb X	ISA	83.39	47 ePd	06 25.00 0.7		NEW	91.41	37 P	07 01.80 -0.1
		S	14 38.00				e	08 29.00		ALO	91.41	52 iPd-	07 02.50 0.1
SMY	76.02	357 ePd	05 44.60	-0.8	ISA	83.39	47 eP	06 26.00 1.7			0.9s	168.07nm	6.1mb
	1.2s	2158.20nm		6.5mb	CMB	83.52	44 iPd	06 25.06 0.1		ANMO	91.41	52 P	07 03.00 0.6
SSE	77.56	312 Pd	05 54.00	-0.3			iSPc	09 20.20			pP	09 13.00	598kmX
	1.0s	140.00nm		5.3mb			eSKS	15 53.27		IMA	91.67	11 ePd	07 02.40 -0.4
		S	14 58.50				iS	16 04.08		COL	91.77	14 eP	07 00.29 -2.8
HKC	77.78	301 iPc	05 57.20	1.5			eP'P'	35 19.30				eSKS	16 39.75
MAW	77.81	201 iPd	05 57.00	1.9	WDC	83.73	41 iPd	06 26.50 0.7			eS	17 10.05	
	1.0s	308.00nm		5.7mb			eP'P'	35 19.50		FBA	91.77	14 iPd	07 02.00 -1.1
GZH	78.84	301 P	06 02.03	0.8	ORV	83.74	42 iPd	06 26.50 0.6		LNV	92.01	128 iPc	07 06.00 1.0
		S	15 16.00				eP'P'	35 19.00		LCCH	92.14	128 iPc	07 06.50 0.9
AIA	79.29	157 eP	06 04.40	1.6	CLC	84.06	47 ePd	06 28.00 0.3		LZH	92.43	308 eP	07 10.14 3.2X
OIZ	79.62	296 eP	06 06.40	1.0	CLC	84.06	47 eP	06 29.10 1.4			2.5s	640.00nm	6.2mb
NJ2	79.73	312 iPd	06 06.50	0.8	MIN	84.15	41 iPd	06 28.00 -0.1				iSKS	16 46.43
	1.1s	500.00nm		5.9mb			eP'P'	35 19.20		TACH	92.50	128 eP	07 08.50 1.1
		iS	15 24.00		TPC	84.17	49 ePd	06 29.00 0.8		CHCH	92.57	129 eP	07 09.00 1.3
SDN	80.45	12 iPd	06 08.20	-0.7			e	08 34.00		LRM	92.77	41 ePd	07 08.40 -0.1
IPM	80.86	279 ePd	06 13.20	1.2	GSC	84.31	48 ePd	06 29.00 0.1		SAN	92.80	128 eP	07 10.00 1.2
	1.0s	196.00nm		5.6mb	KDC	84.37	15 iPd	06 28.50 0.0		PCH	92.82	128 iPc	07 10.40 1.4
MDJ	81.44	327 iPd	06 15.00	0.8		1.4s	*****nm		8.0mb X	PEL	92.94	128 iPd	07 10.50 1.0
	1.0s	500.00nm		6.0mb			e	08 34.00			0.6s	60.00nm	5.9mb
		S	15 40.00		LBFM	84.59	40 P	06 31.20 0.9		FCH	93.13	128 iPc	07 12.50 1.8
BLP	81.46	47 P	06 15.70	1.1	KVN	85.57	44 P	06 35.50 0.4		JACH	93.24	128 eP	07 12.00 1.1
SYP	81.73	47 ePd	06 17.00	0.9	GYA	85.78	301 iPd	06 37.00 0.8		EVV	93.34	71 iPc	07 12.50 1.3
		e	08 24.00			1.4s	200.00nm		5.6mb	GOL	94.36	49 P	07 16.10 0.2
PRS	81.88	45 iPd	06 17.80	1.1	COR	85.78	37 iPd	06 36.76 1.1			pP	09 26.40	599kmX
GCC	81.90	44 iPd	06 17.60	0.9			i	09 34.22		SES	95.91	37 eP	07 22.00 -0.3
PCC	81.94	43 iPd	06 17.80	0.9	MZX	86.00	63 iPd	06 38.00 0.9			0.9s	106.00nm	6.1mb
PSI	82.01	276 ePc	06 18.50	0.7	BJI	86.13	317 iPd	06 38.00 0.6		EDM	96.12	34 iPd	07 22.00 -1.2
	1.0s	79.40nm		5.2mb		2.0s	1380.00nm		6.3mb		1.2s	152.00nm	6.1mb
BCH	82.04	46 P	06 18.60	0.9			eSKS	16 09.00		GTA	96.75	310 iPd	07 26.80 0.3
WHN	82.05	308 iPd	06 19.00	1.4	SVW	86.77	12 iPd	06 39.40 -0.7			1.5s	200.00nm	6.2mb
	1.2s	300.00nm		5.7mb	TIY	87.26	313 iPd	06 44.50 1.5				SKS	17 08.10
		S	15 47.00			1.2s	600.00nm		6.2mb	MEO	97.18	55 iPd	07 27.70 -0.7
DL2	82.07	318 iPd	06 17.00	-0.5	MID	87.40	17 eP	06 43.10 0.1		RSSD	97.21	45 P	07 28.00 -0.6
	5.0s	1800.00nm		5.9mb X	XAN	87.79	309 iPd	06 46.60 1.1			0.7s	69.20nm	6.1mb
SAO	82.09	44 iPd	06 18.50	0.8		1.0s	400.00nm		6.2mb	SHL	97.40	295 IP	07 29.50 -0.3
PRI	82.22	45 iPd	06 19.80	1.3			SKS	16 20.00			iS	17 16.20	
BRK	82.24	43 iPd	06 19.40	1.0	GMW	87.92	35 P	06 46.50 0.7		INK	97.89	16 ePd	07 29.70 -1.1
BKS	82.26	43 ePd	06 20.00	1.5	LON	87.95	36 ePd	06 45.64 -0.4			1.0s	115.00nm	6.2mb
	0.8s	1109.00nm		6.4mb			e	09 43.43		SIO	99.27	55 IP	07 38.00 0.2
		eSP	09 15.00		PGC	88.27	34 ePd	06 47.60 0.3		TUL	99.72	55 eP	07 39.00 -0.8
		e(SPP)	12 15.00			1.0s	963.00nm		6.6mb		0.9s	10.20nm	5.3mb
		eSKS	15 53.00		KMI	88.29	298 iPd	06 49.33 1.1		Z	23s	0.67um	5.1MszX
		e(SP)	16 47.00			2.4s	580.00nm		6.0mb			LR	20 00.00
		eS	19 52.00				iPcP	08 48.19	538kmX	UYO	100.10	57 e(Pd i f)	07 40.80 -0.8
		e	20 09.00				S	16 42.00		YKA	100.38	26 ePd i f	07 40.90 -1.3
		eSP	20 38.00				iSKS	16 25.63			0.8s	13.50nm	5.5mb
ZSP	82.29	43 iPd	06 19.90	1.2			eS	16 48.56		ARE	100.49	113 ePd i f	07 47.00 2.9X
MHC	82.31	44 iPd	06 20.10	1.1	TTA	88.38	11 ePd	06 47.50 -0.2		FFC	102.78	36 ePd i f	07 51.00 -2.0
LLA	82.32	45 iPd	06 19.80	0.9	RMW	88.39	36 P	06 48.40 0.4			1.3s	21.00nm	5.7mb
ARN	82.38	44 P	06 20.20	1.0	PMR	88.58	15 iPd	06 47.90 -0.6		CNCB	103.27	115 ePd i f	07 57.00 0.3
ABL	82.42	47 P	06 20.40	0.7		1.2s	1234.40nm		6.7mb		i	08 02.50	
PAS	82.73	48 iPd	06 21.12	0.1	CHTO	88.70	291 iPd	06 50.37 0.4			i	12 13.00	
		iSPc	09 14.60				iPcP	08 49.88	541kmX	LPB	103.31	115 ePd i f	07 58.00 1.3
		ePPP	10 32.00				e	08 56.17		GBA	105.79	278 PKP	12 16.40 -0.5
		iS	15 56.42				e	08 56.17		HY8	106.10	282 ePKP	12 16.00 -1.5
		e	16 22.07				iPc	06 52.00 1.7		MBC	106.29	13 ePd i f	08 08.00 -0.1
		eS	19 31.61		ACX	88.77	71 iPc	06 52.00 1.6			1.0s	12.00nm	5.8mb
		eSS	20 31.00		MRX	88.82	68 iPc	06 52.00 0.6		MBC	106.29	13 ePKPd	12 14.90 -1.2
		eLg	24 04.00		SIT	88.93	23 eP	06 50.80 1.0			0.9s	34.00nm	
CPE	82.76	50 eP	06 22.60	1.5	HHC	89.51	316 eP	06 54.40 0.0		SIV	109.37	118 Pd i f	08 27.00 3.8X
SNY	82.78	322 iPd	06 21.00	0.0		5.0s	1100.00nm		6.0mb X	SIV	109.37	118 PKP	12 17.20 -6.5X
	1.2s	200.00nm		5.5mb			SKS	16 30.00					
		S	15 45.00		HIA	89.56	326 iPd	06 53.02 -0.3					

10d 06h

			i	12	22.80		HFS	141.97	348	ePKP	13	18.80	-5.2X	WIT	150.15	351	ePKP	13	38.00	0.6
			i	13	04.40			0.8s	513.80nm					CLL	150.20	342	iPKP	13	37.50	-0.1
POD	110.69	282	iPKPc	12	24.80	-1.3	HYA	142.03	354	ePKP	13	19.11	-4.9X		1.7s	220.00nm				
BLA	111.90	58	PKP	12	26.30	-1.6	SUE	142.25	355	iPKP	13	20.25	-4.2X	DST	150.28	310	iPKP	13	43.80	5.6X
KSH	114.29	304	PKP	12	33.50	0.9	ASK	142.79	355	iPKP	13	22.07	-3.3X	BRG	150.32	341	iPKPd	13	37.00	-0.8
WVLY	114.37	52	PKP	12	31.20	-1.4	BER	142.88	355	ePKP	13	22.42	-3.1X			i		13	43.40	
PLAV	115.33	90	iPKPc	12	34.40	-1.0	BLS2	143.80	353	iPKP	13	25.79	-1.5			i		13	53.00	
VAO	115.70	133	iPKPd	12	35.40	-0.3	SHBJ	144.97	293	PKPc	13	48.03	17.9X	BNT	150.45	312	iPKP	13	44.10	5.7X
			e	12	38.30		KAS	145.98	310	iPKPd	13	31.40	-0.1	DEV	150.47	325	iPKPc	13	39.00	0.8
OLLA	116.02	90	iPKPc	12	35.50	-1.1	HLBJ	146.07	293	PKPc	13	49.50	17.6X	HLW	150.50	289	ePKP-	13	38.00	-0.7
LLAV	116.18	90	iPKPc	12	35.60	-1.3	MDSJ	146.15	292	PKPc	13	49.72	17.6X			e		13	45.00	
TXNY	117.39	54	iPKP	12	37.60	-0.7	BSD	146.29	344	iPKPc	13	30.90	-0.5			e		15	48.00	
BMA	117.78	134	ePKP	12	39.50	-0.1		0.5s	312.00nm					PSZ	150.50	331	iPKP	13	33.80	-4.5X
JFO	119.01	134	iPKPc	12	41.90	-0.1	JARJ	146.35	293	PKPc	13	49.96	17.6X	ETA	150.57	6	ePKP	13	37.40	-0.7
SJG	119.28	82	iPKP	12	25.20	-17.3X	QTRJ	146.38	292	PKPc	13	49.91	17.5X		1.5s	428.00nm				
BAO	119.79	126	PKPd	12	43.40	-0.3	HRI	146.41	295	ePKP	13	31.00	-1.5	PVL	150.71	319	iPKPc	13	38.00	-0.6
SVB	122.25	89	ePKP	12	45.68	-2.6X	SHMJ	146.46	294	PKPc	13	50.14	17.7X	ECB	150.84	7	ePKP	13	38.00	-0.5
NEV	122.25	84	ePKP	12	46.00	-2.2X	BURJ	146.47	293	PKPc	13	51.83	19.2X		1.2s	221.00nm				
SVV	122.29	89	ePKP	12	46.09	-2.2X	MASJ	146.59	292	PKPc	13	50.33	17.6X	PRU	150.90	339	ePKPd	13	38.00	-0.7
SOA	122.37	89	ePKP	12	43.30	-5.1X	SALJ	146.60	292	PKPc	13	50.38	17.6X		1.8s	134.40nm				
EVA	122.42	212	iPKPc	12	49.00	0.5	MKRJ	146.67	292	PKPc	13	50.23	17.3X			i		13	45.20	
	0.9s	134.45nm					MML	146.78	294	iPKPc	13	31.80	-1.2	WTS	150.93	350	ePKPd	13	38.50	-0.1
SLB	122.62	88	ePKP	12	46.77	-2.3X	LISJ	146.84	292	PKPc	13	50.73	17.8X		1.0s	174.00nm				
SCH	122.75	39	ePKPd	12	46.50	-1.6	EDU	146.95	2	ePKPc	13	31.70	-0.7	ECF	151.07	7	ePKP	13	38.60	-0.2
	1.1s	218.00nm					ELO	147.00	3	ePKPc	13	31.80	-0.7		1.2s	306.00nm				
BBL	122.76	86	ePKP	12	46.00	-3.2X	IAS	147.14	323	ePKP	13	33.00	0.0	SRE	151.09	323	ePKPc	13	46.00	6.8X
FDF	122.81	87	ePKP	12	48.20	-1.2	BBTK	147.23	308	ePKP	13	40.00	6.4X	MOX	151.18	343	ePKP	13	39.00	-0.1
BPA	122.87	84	ePKP	12	47.00	-2.4X	EBH	147.23	3	ePKPc	13	32.40	-0.5		1.8s	262.00nm				
KBS	124.20	357	ePKP	12	50.00	-0.2		0.9s	1704.00nm							epPKP	15	55.00		
NPA	125.07	230	iPKP	12	53.80	0.0	EAB	147.25	3	ePKPc	13	32.30	-0.6	SRO	151.27	332	iPKPd	13	38.00	-0.5
	1.0s	250.00nm						0.9s	1204.00nm							i		13	45.90	
			e	14	40.40		HQL	147.31	288	PKP	13	33.90	0.1			e		24	34.90	
			e	15	17.00		MBH	147.44	289	iPKPd	13	32.70	-1.3			e		27	20.80	
CIR	125.57	218	iPKPc	12	55.50	0.9	FAM	147.56	299	ePKP	13	37.70	3.6X	BZS	151.32	326	ePKP	13	37.00	-2.5X
			i	15	20.00		EDI	147.57	2	ePKPc	13	32.80	-0.6	HOF	151.41	343	ePKP	13	39.00	-0.5
			i	15	32.50		ESY	147.60	2	ePKPc	13	32.80	-0.7			i		13	46.20	
DAG	125.95	5	iPKPc	12	51.50	-2.2X		1.0s	1772.00nm							i		13	57.50	
	0.9s	224.09nm					EAU	147.64	3	ePKPc	13	33.00	-0.6	ZST	151.47	334	iPKPd	13	39.30	-0.3
MAIO	126.82	299	iPKPd	12	56.20	-0.5		0.9s	2142.00nm							i		13	46.60	
	1.1s	76.56nm					CLI	147.67	322	ePKPc	13	34.00	0.0			i		13	58.50	
			e	15	04.00		EBL	147.73	2	ePKPc	13	33.30	-0.4			i		14	13.70	
BUL	127.91	216	iPKPc	12	59.80	0.6	CFR	147.94	320	ePKPc	13	34.00	-0.3			i		15	54.90	
	2.0s	820.59nm					CSS	148.11	299	ePKP	13	34.20	-0.8			e		27	27.30	
			i	15	28.50		EKA	148.16	2	PKPd	13	33.10	-1.3	RDO	151.68	315	ePKP	13	39.50	-0.6
			i	15	42.60			1.3s	203.10nm					VKA	151.72	335	ePKP	13	39.00	-1.0
			i	22	23.00		ESK	148.18	2	iPKPc	13	38.00	3.6X		2.4s	716.00nm				
SOB1	129.20	125	ePKP	12	43.60	-18.1X		1.0s	600.00nm							i		13	40.00	
			e	12	58.50		VRI	148.38	322	ePKPc	13	34.00	-1.1			i		13	47.70	
			e	13	00.60		PSN	148.71	317	iPKPc	13	36.00	0.4			i		13	55.50	
KRI	130.00	220	iPKPc	12	57.90	-5.4X	CVO	148.72	322	ePKPc	13	34.50	-1.1			i		13	59.10	
			i	13	06.00		GPA	148.82	310	iPKP	13	35.60	-0.4			i		15	06.60	
			i	15	39.30		KRA	148.86	334	iPKPd	13	34.90	-0.7			ipPKP	15	50.70		
			i	15	54.00			1.1s	982.00nm							isPKP	16	54.30		
			i	22	17.90											i		13	40.10	
KEV	130.83	348	ePKP	12	57.00	-6.1X	ISR	148.91	321	ePKPc	13	36.00	0.0	Izm	151.73	308	ePKP	13	38.60	-1.8
	0.7s	50.70nm					PPCY	148.92	299	ePKP	13	35.00	-1.2	BNS	151.86	349	ePKPc	13	38.90	-1.2
			i	13	02.40		BMR	148.97	327	ePKPc	13	36.00	0.1		1.0s	624.00nm				
			i	15	35.00		AMAN	149.00	278	iPKPc	13	36.50	-0.1	ARG	151.88	303	ePKP	13	40.00	-0.6
WIN	130.96	202	iPKPd	13	05.50	0.4	MLR	149.05	322	ePKPc	13	35.00	-1.3	KHC	151.96	339	iPKPd	13	40.40	0.1
	0.9s	54.62nm					BRN	149.15	343	ePKPc	13	37.00	1.0			i		13	48.60	
TRO	132.34	351	iPKP	13	04.70	-1.3		id	13	42.00			PRK	152.08	311	ePKP	13	40.00	-0.7	
SOD	132.87	346	iPKP	12	57.90	-9.2X	AKRL	149.17	277	ePKP	13	37.00	0.1	SOP	152.10	334	ePKP	13	40.10	-0.4
			i	13	06.30		GBZT	149.22	311	iPKPd	13	40.50	4.0X	GRF	152.16	343	iPKPd	13	40.40	-0.2
			i	15	42.20		ANMR	149.32	277	iPKPc	13	38.00	0.9			e		13	48.30	
CAI	133.76	126	iPKPc	12	55.40	-15.0X	YLV	149.36	311	iPKP	13	41.10	4.3X			e		14	01.30	
AKU	136.39	10	iPKP	13	01.50	-12.3X	ISK	149.37	312	ePKP	13	34.00	-2.7X	GRFO	152.16	343	ePKPd	13	39.01	-1.5
	1.0s	104.00nm					AWKL	149.38	277	iPKPc	13	38.00	0.8	WET	152.17	340	ePKP	13	40.00	-0.6
			i	13	14.00		IZI	149.39	310	ePKP	13	41.10	4.2X			i		14	01.30	
			i	15	55.00		SPC	149.39	332	ePKP	13	36.80	0.1	ENN	152.25	351	iPKPd	13	40.40	-0.2
SUF	136.75	342	ePKP	13	02.00	-12.6X									1.0s	121.00nm				
REY	137.08	13	iPKP	13	15.20	0.1								SMG	152.31	307	ePKP	13	40.00	-1.1
			e	15	57.30		ALT	149.42	308	iPKP	13	36.90	-0.1	TNS	152.32	347	ePKPd	13	40.90	0.1
TAB	137.29	301	ePKP	13	03.00	-13.6X	CEI	149.48	328	ePKP	13	45.00	8.4X			i		13	49.20	
			e	13	16.00		KSP	149.59	338	iPKPd	13	36.20	-0.5			i		14	00.70	
KMTA	138.80	271	PKP	13	13.30	-6.7X								VTS	152.35	319	iPKPc	13	41.00	-0.3
NUR	138.95	341	ePKP	13	05.00	-13.6X								UCC	152.43	353	PKP	13	41.40	0.6
	1.0s	124.00nm													ed-		13	48.60		
			i	13	10.00		BCK	149.61	305	ePKP	13	35.90	-1.4			e		14	01.00	
			i	13	18.20		CMP	149.69	322	ePKPd	13	42.00	4.9X							

DOU	153.10	352	PKP	13 42.00	0.2		1.4s	278.80nm		LPO	158.79	356	iPKPd	13 49.60	0.4		
			i	13 49.90							1.6s	286.05nm					
BCAO	153.28	228	iPKPd	13 42.75	-0.5	VLI	155.56	308	ePKP	13 44.50	-1.1	FRF	159.02	344	ePKP	13 48.90	-0.6
	1.1s	246.00nm				VDL	155.56	342	ePKPd	13 45.20	-0.4		1.3s	104.70nm			
BHG	153.42	339	iPKPd	13 41.60	-0.8	HVAR	155.66	328	iPKP	13 44.60	-0.9	LRG	159.19	345	ePKP	13 48.90	-0.7
			i	14 06.60		LOR	155.97	352	iPKPd	13 45.50	-0.3		1.2s	59.50nm			
PLG	153.44	315	ePKP	13 49.50	6.8X		Z	20s	0.30um	5.1msz	LMR	159.27	344	ePKP	13 49.50	-0.2	
STU	153.52	345	iPKP	13 41.70	-0.7	GRC	156.03	353	PKP	13 46.34	0.5		1.6s	174.15nm			
FUR	153.52	341	iPKPd	13 42.20	-0.3	SAL	156.05	340	PKPc	13 45.50	-0.4	PGF	159.27	339	PKP	13 49.20	-0.7
			i	13 50.90		ITM	156.07	310	ePKP	13 45.00	-1.3	EMON	159.43	13	iPKPd	13 50.20	0.2
			i	14 06.90		TMA	156.08	343	ePKPd	13 45.40	-0.8			ic	14 31.20		
GWF	153.68	347	PKP	13 42.79	0.1	MDI	156.14	341	PKPc	13 44.90	-1.1	STS	159.67	16	iPKPd	13 50.70	0.5
SKO	153.77	320	iPKPc	13 42.60	-0.4	SSF	156.21	352	iPKPd	13 46.00	-0.1			ic	14 32.60		
	1.3s	137.00nm				LBF	156.23	352	iPKPd	13 45.90	-0.3	EZAM	160.32	17	ePKP	13 51.50	0.6
			iP'P'	13 50.50		VAI	156.33	343	PKP	13 45.30	-1.0	ERUA	160.47	14	iPKPd	13 51.30	0.2
			i	14 08.00		MMK	156.36	344	ePKPd	13 46.70	0.0			ic	14 36.40		
			i(pPKP)	16 07.20		DIX	156.47	345	ePKPd	13 47.10	0.2	EPF	160.49	357	iPKPd	13 51.70	0.6
PTJ	153.78	333	iPKPd	13 42.20	-0.8	VLS	156.48	313	ePKP	13 48.00	1.2		1.2s	185.95nm			
KBA	153.81	337	iPKPd	13 41.70	-1.4	AVF	156.50	353	iPKPd	13 46.10	-0.4	ECRI	160.90	3	ePKP	13 52.20	0.7
			i	13 42.40			1.5s	151.45nm					ic	14 38.20			
			i	13 51.20		SMF	156.58	352	iPKPd	13 46.20	-0.4	ETER	160.98	351	iPKPc	13 52.10	0.6
			i	14 07.80			1.6s	211.45nm					ic	14 38.60			
STR	154.02	347	PKP	13 43.25	0.2	EMS	156.59	346	ePKPd	13 46.90	0.0	LIC	162.39	167	PKPd	13 53.40	-0.4
NPS	154.12	303	ePKP	13 44.00	0.3	ORX	156.75	344	PKP	13 45.04	-2.0	MBO	162.39	118	ePKP	13 54.90	1.3
BLY	154.13	329	ePKP	13 47.30	3.9X	ORO	156.76	344	PKP	13 46.10	-0.9	KIC	162.58	167	PKPd	13 53.50	-0.5
WATA	154.18	340	iPKPd	13 42.80	-0.8	BGF	156.79	353	iPKPd	13 47.00	0.1		1.1s	283.50nm			
			i	13 43.20		MFF	156.94	359	iPKPd	13 47.00	0.0	EROO	162.68	356	ePKP	13 54.10	0.8
			i	13 52.40		ARV	156.98	333	PKPc	13 47.40	0.2			ic	14 45.80		
			i	14 09.60		SFI	157.06	336	PKP	13 47.00	-0.2	GUD	162.70	8	iPKPc	13 54.70	1.2
LJU	154.24	335	ePKPd	13 43.00	-0.5	LSL	157.12	345	PKP	13 47.30	-0.3			ic	14 45.80		
WLS	154.27	347	PKP	13 42.79	-0.8	TCF	157.12	354	iPKPd	13 47.20	-0.1	ETOR	162.70	3	iPKPd	13 54.10	0.7
CDF	154.29	347	PKP	13 43.14	-0.5	BOB	157.14	341	PKP	13 47.00	-0.4			ic	14 46.00		
VBY	154.39	333	ePKP	13 44.00	0.3	PGD	157.15	336	PKP	13 47.10	-0.5	TIC	162.80	166	PKPd	13 54.20	0.0
SOTA	154.39	341	iPKPd	13 43.30	-0.5	MAF	157.15	354	iPKPd	13 47.40	0.1	EPLA	162.92	13	iPKPd	13 53.90	0.3
	1.1s	396.00nm					1.6s	146.15nm					ic	14 47.40			
			i	13 53.00		LPL	157.16	346	iPKPd	13 47.80	0.1	LIS	163.30	23	iPKPd	13 54.80	0.9
			i	14 10.60			1.2s	62.50nm				ESEL	163.45	349	ePKP	13 54.00	-0.1
			i	16 03.00		LPG	157.17	346	iPKPd	13 48.00	0.2			e	14 50.00		
			i	16 56.30			1.2s	65.45nm				TOL	163.46	8	iPKPc	13 55.50	1.4
			e	23 35.00		LSF	157.21	356	iPKPd	13 47.10	-0.3		1.5s	222.22nm			
FVI	154.43	338	PKP	13 42.50	-1.2	MME	157.24	338	PKPc	13 48.00	0.2			ePP	18 35.00		
ATH	154.44	310	ePKP	13 41.60	-2.4X	AGO	157.25	353	PKP	13 47.30	-0.2			eSS	30 50.00		
ECH	154.50	347	PKP	13 42.99	-0.8	CRE	157.27	335	PKP	13 46.90	-0.8			eSSS	35 05.00		
VOY	154.50	335	ePKPc	13 43.20	-0.8	PLDF	157.27	352	PKP	13 47.60	0.0	ECHE	163.96	360	iPKPc	13 55.70	1.1
			i	14 10.00		RSP	157.38	345	PKP	13 45.25	-2.5			ic	14 52.00		
CEY	154.54	334	ePKPd	13 43.00	-1.0	BDI	157.39	338	PKP	13 46.00	-1.8	EVIA	164.85	5	iPKPd	13 56.00	0.5
			i	14 10.50		ASS	157.45	333	PKPc	13 46.90	-0.9			ic	14 56.00		
KZN	154.55	317	ePKP	13 44.00	-0.2	PYM	157.56	353	PKP	13 48.25	0.3	EBAN	165.18	9	iPKPd	13 56.00	0.3
SLE	154.63	345	ePKPd	13 43.30	-0.7	PCP	157.61	342	PKP	13 46.07	-1.9			ic	14 57.60		
FEL	154.64	346	ePKP	13 43.51	-0.7	BNI	157.61	346	PKPc	13 48.60	0.5	EHOR	165.26	13	iPKPd	13 56.30	0.6
QHR	154.68	319	iPKPd	13 43.40	-0.9	RRL	157.71	345	PKP	13 48.02	-0.3			ic	14 57.70		
	1.6s	226.00nm				PII	157.72	338	PKP	13 46.50	-1.5	LKO	165.44	162	PKPd	13 56.46	-0.1
			iP'P'	13 53.70		ADU	157.72	331	PKP	13 48.10	0.0		1.0s	201.50nm			
			i	14 11.90		DUI	157.77	328	PKPc	13 47.90	-0.4	EALH	165.68	1	iPKPc	13 56.80	0.7
VITF	154.72	349	PKP	13 43.72	-0.3	CKI	157.79	342	PKPc	13 47.00	-1.1	GIBL	166.04	17	iPKP	14 00.00	3.6X
OGA	154.76	340	iPKPd	13 44.20	-0.3	DOI	157.99	344	PKP	13 47.00	-1.4	EPRU	166.08	14	iPKPc	13 58.00	1.5
			i	14 12.20		AZI	157.99	330	PKP	13 47.50	-0.8			e	15 02.00		
FLN	154.78	359	iPKPd	13 43.90	-0.2	MNS	158.01	332	PKP	13 46.00	-2.5X	ECOG	166.08	9	iPKPc	13 55.70	-0.9
	1.2s	232.45nm				FIN	158.01	342	PKP	13 46.68	-1.7			ic	15 01.00		
Z	20s	0.17um			4.9msz	ROB	158.02	343	PKP	13 47.40	-1.0	AFC	166.11	9	ePKP	13 56.50	-0.2
TRI	154.82	335	iPKPd	13 43.60	-0.7	PZZ	158.03	344	PKP	13 48.22	-0.3			ic	15 01.60		
			i	13 53.20		SDI	158.04	329	PKP	13 47.40	-1.1	CNIL	166.44	18	iPKP	13 59.50	2.8X
			i	14 11.30		LBL	158.05	352	PKP	13 48.64	0.3	MAL	166.48	12	iPKPd	13 56.50	-0.2
			i	15 56.00		ROI	158.15	321	PKP	13 48.20	-0.5			iP	14 03.20		
			e	28 52.00		RJF	158.15	355	iPKPd	13 48.70	0.2	EJIF	166.52	16	ePKP	13 58.20	1.4
			e	42 56.00			1.4s	239.60nm					ic	15 04.00			
MOF	154.85	347	PKP	13 43.72	-0.7	Z	20s	0.47um	5.3msz	ENIJ	166.53	4	ePKP	13 56.80	0.0		
HAU	154.86	348	iPKP	13 44.10	-0.2	SGO	158.16	325	PKPc	13 47.90	-0.7			e	15 02.00		
	1.3s	176.90nm				CSI	158.17	322	PKP	13 48.60	-0.1	MOMI	166.58	17	iPKP	13 58.00	1.2
Z	20s	0.32um			5.1msz	ENR	158.20	344	PKP	13 46.99	-1.7	PLAT	166.75	17	iPKP	14 01.00	4.0X
RIY	154.88	334	ePKPd	13 43.50	-0.8	STV	158.21	344	PKP	13 48.12	-0.6	OJEN	166.83	16	iPKP	14 00.00	2.9X
SAX	154.90	343	ePKPd	13 44.30	-0.4	TDS	158.22	322	PKPc	13 48.70	0.0	NKM	167.48	17	iPKPc	13 59.00	1.5
ZLA	154.92	345	ePKPd	13 43.80	-0.7	BSS	158.25	326	PKPc	13 48.00	-0.7			i	14 04.00		
BSF	154.94	348	PKP	13 43.72	-0.8	MGR	158.32	324	PKP	13 47.00	-1.8			i	15 08.00		
LDF	154.95	359	iPKPd	13 43.90	-0.5	IMI	158.37	342	PKP	13 47.71	-1.2	TAF	168.65	6	iPKPd	14 00.00	1.6
	1.2s	169.60nm				AUTN	158.42	343	PKP	13 48.60	-0.5			i	15 12.00		
VVI	155.08	337	PKP	13 44.10	-0.6	TOUF	158.45	344	PKP	13 48.14	-1.0	AVE	168.71	29	iPKP	13 59.00	0.7
BST	155.12	5	PKP	13 41.99	-2.6X	CAF	158.48	354	iPKPd	13 49.30	0.4			i	15 12.50		
VAM	155.15	304	ePKP	13 45.00	-0.1	SBF	158.54	343	ePKP	13 48.50	-0.5			i	19 06.50		
GRR	155.16	360	iPKPd	13 44.50	-0.2		1.2s	190.40nm				IFR	169.37	19	iPKPd	14 00.00	1.0
	1.3s	173.30nm				AURF	158.55	343	PKP	13 49.66	0.6			i	15 16.50		
OSS	155.19	342	ePKPd	13 44.50	-0.5	LFF	158.56	357	iPKPd	13 49.20	0.3	TIO	170.72	36	iPKPd	14 00.50	0.8
EVR	155.28	314	ePKP	13 45.50	0.2		1.4s	200.40nm						i	15 21.00		
CTI	155.29	339	PKP	13 44.20	-0.9	MVIF	158.58	344	PKP	13 47.47	-1.7		S.D. = 0.9 on 483 of 560 obs.				
LLS	155.34	343	ePKPd	13 45.00	-0.2	CZI	158.63	321	PKP	13 46.60							

10d 06h

 DEPTH = 33.0km (normol)
 LEEWARD ISLANDS (92)

BPA	0.53	11 eP	17 28.32	0.3
		S	17 39.60	
DOG	0.59	146 eP	17 30.28	1.4
		S	17 43.50	
SFG	0.78	110 eP	17 30.80	-0.7
		S	17 44.50	
NEV	0.84	316 eP	17 32.19	-0.2
		S	17 46.80	
BBL	1.10	155 eP	17 35.31	-0.8
	S.D. = 1.3	on	5 of 5 obs.	

 & OCT 10, 1990 06h 59m 32.30s
 37.808 N 121.755 W

 DEPTH = 13.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 3.4 (BRK).
 Mo=8.7*10**13 Nm (BRK).

BKS	0.39	280 iPc	59 39.90	-0.5
BKS	0.39	280 iPc	59 40.00	-0.4
		iS	59 45.90	
		i	59 47.20	
BRK	0.41	279 iPc	59 40.20	-0.5
		iS	59 46.10	
ZSP	0.42	289 iPc	59 40.50	-0.5
MHC	0.47	169 iPd	59 41.95	-0.1
		iS	59 48.95	
MHC	0.47	169 iPd	59 42.00	-0.1
ARN	0.49	159 iPc	59 42.30	0.0
PCC	0.58	238 iPc	59 43.30	-0.6
GCC	0.80	194 eP	59 46.60	-0.9
SAO	1.07	167 eP	59 50.60	-1.6
CMB	1.11	78 ePc	59 51.50	-1.3
		iS	00 06.20	
LLA	1.35	151 eP	59 54.90	-2.0
ORV	1.76	6 eP	00 02.50	-0.1
FRI	1.82	116 eP	00 01.90	-1.6
TNP	3.60	84 eP	00 35.50	6.4
	15 obs.	associated		

 & OCT 10, 1990 07h 11m 16.73s
 59.926 N 153.383 W

 DEPTH = 143.4km
 SOUTHERN ALASKA (2)
 <AGS-P>.

OPT	0.28	164 iP	11 36.00	0.9
		eS	11 50.34	
PDB	0.43	252 iP	11 36.23	-1.0
AUE	0.57	179 eP	11 37.11	-0.8
RED	0.58	31 iP	11 37.22	-0.9
AUI	0.59	182 eP	11 37.55	-0.5
RSD	0.62	30 iP	11 37.78	-0.8
RDT	0.81	36 iP	11 38.77	-0.9
MCNL	0.89	214 iP	11 39.15	-1.1
HOM	0.92	106 eP	11 39.82	-0.6
		eS	11 57.17	
CDD	1.01	188 iP	11 40.12	-1.1
		eS	11 57.86	
NNL	1.06	83 eP	11 41.77	0.1
BGM	1.08	241 eP	11 42.29	0.4
CNPM	1.16	189 iP	11 41.63	-1.0
		eS	12 00.08	
NKA	1.35	52 eP	11 45.02	0.6
CKL	1.38	22 iP	11 44.31	-0.6
		eS	12 05.20	
SPU	1.42	27 eP	11 44.53	-0.8
		eS	12 05.50	
BGL	1.43	20 iP	11 45.25	-0.2
CRP	1.48	24 eP	11 45.56	-0.5
NCG	1.60	22 eP	11 46.92	-0.4
SLKM	1.68	68 eP	11 46.93	-1.3
SEW	1.98	83 eP	11 50.36	-1.3
SUA	2.02	39 eP	11 51.22	-1.0
SKT	2.25	23 eP	11 53.71	-1.2
PMS	2.30	53 eP	11 54.09	-1.5
PWA	2.44	43 eP	11 58.04	0.8
PLRM	2.67	49 eP	12 00.22	0.1
KNIM	2.86	79 eP	12 00.20	-2.3
GHO	2.86	48 eP	12 01.94	-0.8
MTU	2.88	86 eP	12 01.58	-1.3
CUT	2.91	30 eP	12 01.90	-1.3
SML	3.11	50 eP	12 03.32	-2.5
GLI	3.26	70 eP	12 05.01	-2.8

VZW	3.56	68 eP	12 10.15	-1.7
VLZ	3.69	68 eP	12 11.37	-2.0
KLU	3.99	64 eP	12 15.10	-2.4
BALM	5.57	74 eP	12 36.55	-2.1
	36 obs.	associated		

 OCT 10, 1990 07h 35m 40.35±0.77s
 19.213 N ± 5.5km 145.634 E ± 10.0km
 DEPTH = 140.7 ± 8.1 km
 4.8mb (10 obs.)

MARIANA ISLANDS (216)

GUMO	5.64	188 eP	37 03.40	0.2
	0.7s	182.97nm		5.4mb
PJG	5.64	188 eP	37 03.30	0.1
GUA	5.68	187 eP	37 03.50	-0.3
	0.5s	338.03nm		5.8mb X
		eS	38 08.30	
MAT	18.46	341 eP	39 48.00	0.1
MTN	34.91	205 eP	42 20.10	-0.3
WBS	40.39	196 eP	43 06.00	-0.1
ASPA	44.13	196 eP	43 36.60	0.0
	0.5s	7.40nm		4.6mb
INK	68.93	23 ePd	46 31.00	-0.6
MBC	72.67	14 eP	46 54.50	0.6
	0.5s	4.00nm		4.4mb
BMW	77.09	45 P	47 19.80	0.1
GMW	77.12	44 P	47 20.10	0.3
YKA	77.57	28 eP	47 21.20	-0.7
	0.6s	8.60nm		4.7mb
RMW	77.78	44 P	47 23.50	0.0
WDC	79.10	51 ePc	47 31.30	0.5
MIN	79.86	51 eP	47 34.70	-0.3
ORV	80.16	52 eP	47 35.80	-0.6
NEW	80.58	42 P	47 38.00	-0.5
	0.8s	15.63nm		4.8mb
MHC	80.69	54 eP	47 39.70	0.3
ARN	80.77	54 P	47 39.90	0.2
PRS	81.20	55 eP	47 42.30	0.4
CMB	81.44	53 eP	47 43.50	0.3
PHAM	82.10	55 P	47 46.70	0.1
FRI	82.27	54 eP	47 47.70	0.2
BCH	82.54	55 P	47 48.80	-0.3
ABL	83.32	56 P	47 52.70	-0.5
TNP	83.79	52 P	47 54.90	-0.6
	0.7s	8.89nm		4.7mb
LRM	84.41	43 eP	47 58.90	0.4
DUG	86.26	49 P	48 07.70	0.1
FFC	86.70	32 iPd	48 09.70	0.4
	0.9s	24.00nm		5.1mb
DAU	87.27	48 P	48 12.80	0.0
RSSD	90.55	42 P	48 27.40	-0.6
GOL	91.67	47 P	48 33.20	-0.1
	0.8s	5.21nm		4.7mb
ANMO	92.99	52 P	48 39.40	0.0
	1.0s	6.25nm		4.8mb
ALQ	92.99	52 eP	48 39.70	0.3
	1.0s	6.00nm		4.8mb
ZOBO	147.74	90 ePKP	55 09.00	0.6
LPB	147.81	91 ePKP	55 05.00	-3.3X
CNCB	147.97	91 PKP	55 09.00	0.3
	S.D. = 0.4	on	36 of 37 obs.	

 OCT 10, 1990 07h 45m 07.95±0.40s
 1.602 S ± 5.7km 99.479 E ± 6.5km
 DEPTH = 57.0km (4 depth phases)
 5.2mb (17 obs.)

SOUTHERN SUMATRA (274)

PSI	4.38	353 ePc	46 11.70	-0.7
KLM	5.15	25 eP	46 24.50	0.1
TSI	5.15	350 ePc	47 04.00	39.6X
KGM	5.26	47 ePd	46 28.00	2.1
		e	48 22.50	
IPM	6.33	14 ePc	46 41.20	0.3
	0.9s	248.50nm		5.7mb
		e	47 46.50	
BSI	8.20	329 eP	47 04.00	-2.8
		e(S)	48 35.50	
KKM	18.36	65 ePd	49 21.40	1.1
	0.9s	79.00nm		4.9mb
CHTO	20.29	359 eP	49 41.20	-0.6
	0.6s	5.89nm		4.1mb X
		pP	49 46.10	18kmX
		sP	49 56.20	
QIZ	22.89	26 eP	50 08.40	0.6
	0.8s	40.00nm		4.9mb

N	12s	1.30um		
KOD	24.87	299 eP	50 28.00	0.8
KMI	26.75	7 eP	50 45.00	0.5
SHL	27.99	345 iP	50 55.40	-0.3
		eS	56 06.00	
GVA	28.75	13 P	51 01.80	-0.6
LSA	32.13	346 eP	51 33.60	0.9
POO	32.19	310 iPc	51 32.30	-0.6
CD2	32.59	7 P	51 35.00	-1.2
Z	18s	1.90um		4.8Msz
		eS	56 41.00	
WHN	34.97	23 Pd	51 57.00	0.3
XAN	36.55	13 iPc	52 09.60	-0.5
	1.0s	100.00nm		5.7mb
N	16s	1.90um		
E	15s	1.20um		
		pP	52 28.00	75kmX
LZH	37.71	6 P	52 20.00	0.0
	2.5s	100.00nm		5.3mb
Z	11s	1.30um		5.0MszX
		pP	52 33.50	52km
		sP	52 44.50	
		S	58 10.00	
SSE	38.52	31 P	52 26.70	0.1
	0.8s	16.00nm		5.0mb
Z	20s	1.40um		4.8Msz
WBS	38.64	120 iPc	52 26.00	-1.9
ASPA	39.90	126 iPc	52 37.20	-1.1
	1.1s	28.20nm		5.0mb
		eS	58 38.20	
GTA	40.81	0 iPc	52 46.50	0.9
	1.4s	100.00nm		5.4mb
Z	22s	1.00um		4.6Msz
E	14s	0.50um		
		sP	53 07.20	
TIY	40.92	16 eP	52 45.50	-0.9
Z	22s	1.00um		4.6Msz
E	17s	0.90um		
		S	58 53.00	
BTO	43.09	12 eP	53 04.00	-0.2
	N	16s	1.40um	
	E	16s	0.70um	
HHC	43.66	13 P	53 09.70	0.8
BJI	44.17	18 eP	53 13.00	0.2
	1.0s	42.00nm		5.2mb
Z	20s	0.60um		4.5Msz
QUE	44.29	318 eP	53 14.20	0.0
KSH	46.20	335 eP	53 30.50	1.3
WMO	46.44	348 iPc	53 32.50	1.6
	1.5s	100.00nm		5.5mb
		eS	00 20.00	
SNY	48.43	24 Pd	53 45.80	-0.6
Z	16s	1.50um		5.1MszX
CTA	49.24	115 iPc	53 51.50	-1.6
	1.0s	46.00nm		5.5mb
STK	49.80	132 iPc	53 57.00	-0.2
	0.9s	18.00nm		5.1mb
		i	54 05.50	28kmX
MAT	52.30	40 eP	54 14.00	-2.1
	1.0s	19.00nm		5.1mb
BFD	53.13	137 eP	54 26.00	3.8X
		e	54 34.80	29kmX
MDJ	53.26	27 P	54 23.00	0.0
OFUJ	56.01	39 P	54 42.50	-0.7
BWA	56.05	131 eP	54 45.50	1.8
CAN	56.86	132 eP	54 49.60	0.2
BRS	57.05	122 iP	54 51.00	0.1
		i	55	

MOX	89.87	320	e(P)	58 15.00	13.0X	CD2	31.91	285	iPc	28 47.20	0.2	CAN	62.74	172	iPd	32 42.30	1.0
ALO	138.97	33	ePKP	04 24.00	-6.7X	LZH	0.6s	200.00nm		5.6mb		MUN	63.10	203	eP	32 43.10	-0.5
	0.9s	3.36nm					31.98	295	iPd	28 48.50	0.9	QUE	63.21	292	iPd	32 45.00	0.3
TUL	143.04	21	ePKP	04 35.50	-2.1X		1.0s	168.00nm		5.3mb			(S)	40 45.00			
	1.0s	6.00nm						pP	29 05.00	69kmX		NWAO	63.63	201	iPd	32 47.00	0.0
Z	21s	0.29um		5.0Msz				PP	29 44.00				0.7s	46.00nm		5.2mb	
		LR	02 00.00			LZH	31.98	295	iPd	28 38.50	-9.1X	INK	63.70	24	ePd	32 46.30	-0.8
S.D. = 1.0	on 46 of 57 obs.						1.0s	170.00nm		5.3mb		BFD	64.07	178	iPc	32 52.90	3.2X
* OCT 10, 1990 07h 58m 07.90±1.11s																	
3.994 S ± 7.6km 80.572 W ±15.3km																	
DEPTH = 10.0km (geophysicist)																	
PERU-ECUADOR BORDER REGION (110)																	
TUNG	3.32	40	P	59 02.00	0.6		35.54	300	iPd	29 17.80	0.2	MAIO	67.35	300	iPd	33 11.40	0.7
VC1	3.98	33	P	59 11.10	0.4		0.8s	400.00nm		5.8mb		KEV	72.28	340	iP	33 39.80	0.4
OTO	4.28	28	eP	59 15.10	0.1			PcP	31 37.20				0.6s	26.10nm		5.1mb	
		S	00 03.00					S	34 22.50			WLZ	72.74	151	P	33 43.20	0.7
OUR	4.31	28	eP	59 15.30	-0.1	PMG	37.02	168	eP	29 29.00	-0.9	YKA	72.92	28	eP	33 42.50	-0.8
		eS	00 04.20			CHTO	38.67	266	iPd	29 44.70	1.2		0.6s	36.50nm		5.2mb	
ANGL	4.68	40	eP	59 29.80	9.0X		1.0s	30.75nm		4.6mb		SOD	73.63	338	iP	33 47.00	-0.3
CAYA	4.80	33	P	59 22.00	-0.5	MTN	40.75	194	eP	30 01.00	0.6	HBZ	73.74	149	P	33 47.30	-0.9
COTA	4.84	27	P	59 22.80	-0.3	LSA	42.88	285	eP	30 19.40	1.3	PGC	74.09	43	eP	33 50.00	-0.2
ZOBO	17.27	136	eP	02 11.00	-0.5	SHL	43.03	279	iP	30 19.50	0.5	PUZ	74.11	150	P	33 49.30	-1.1
		e	05 11.00					iS	36 14.00			NOZ	74.46	150	eP	33 51.30	-1.0
LPB	17.47	136	eP	02 12.00	-1.8	IPM	43.52	246	ePd	30 25.00	2.3	GMW	74.94	44	P	33 55.80	0.7
		e	05 18.00				0.8s	35.40nm		4.7mb		THZ	75.01	155	P	33 54.30	-1.2
CNCB	17.75	137	P	02 19.00	2.4	KNA	44.09	196	eP	30 07.50	-19.5X	MNG	75.04	153	P	33 54.30	-1.3
		S	05 15.00			WMO	45.02	306	iPd	30 35.00	0.6	BMW	75.09	45	P	33 56.00	0.0
SIV	22.57	123	P	03 09.60	-0.3		1.5s	100.00nm		4.9mb		PGZ	75.36	152	P	33 56.40	-0.9
ALO	45.74	330	eP	06 29.70	-1.8			PcP	32 08.00			DAG	75.47	355	iPd	33 56.80	-0.6
TNP	53.90	324	e(P)	07 35.90	1.9			ScP	35 22.50				0.8s	18.66nm		4.9mb	
S.D. = 1.4	on 12 of 13 obs.							S	36 42.30		RMW	75.58	44	P	33 59.00	0.3	
								ScS	39 47.50		LTZ	75.67	156	P	33 59.20	0.2	
OCT 10, 1990 08h 22m 53.66±0.10s																	
27.195 N ± 2.4km 140.119 E ± 2.7km																	
DEPTH = 384.0km (6 depth phases)																	
5.2mb (58 obs.)																	
BONIN ISLANDS REGION (212)																	
WKYJ	8.01	332	iP+	24 52.40	3.1X	PSI	46.31	245	ePd	30 45.60	1.0	FHC	76.91	51	ePd	34 07.70	1.6
IIDJ	8.47	348	iP+	24 55.10	0.5	WB5	47.13	187	iPd	30 51.00	0.3	DPW	77.60	42	P	34 10.00	0.2
MAT	9.46	351	iPc	25 04.90	-1.3			ePP	32 14.10			EDM	77.83	36	iPd	34 11.00	0.1
	0.7s	397.26nm		5.9mb		CTA	47.38	172	iPd	30 52.80	0.2	WDC	78.00	51	iPd	34 12.70	0.7
		eS	26 50.00				1.0s	68.00nm		4.9mb		NEW	78.07	42	P	34 11.80	-0.5
SHK	9.71	321	iPc	25 12.40	3.3X	QIS	47.47	181	iPd	30 53.20	-0.1		1.0s	72.50nm		5.4mb	
	1.0s	1552.00nm		6.3mb X		SDN	50.78	39	e(P)	31 16.40	-1.6	L8FM	78.12	50	P	34 12.50	-0.4
GUMO	14.25	161	eP	26 02.20	1.2	ASPA	50.92	187	iPd	31 18.90	-0.5	NUR	78.14	333	iP	34 12.20	-0.1
	0.7s	228.72nm		5.7mb			0.4s	107.80nm		5.5mb			1.0s	64.00nm		5.3mb	
PJC	14.25	161	eP	26 01.80	0.8	MBL	51.93	204	iPd	31 27.00	0.3	LTCM	78.45	51	P	34 13.90	-0.5
GUA	14.31	161	eP	26 02.60	0.9		0.4s	35.00nm		5.0mb		MIN	78.75	50	ePd	34 16.30	0.1
	0.8s	483.50nm		6.0mb		OLP	53.61	175	iP	31 38.20	-0.7	ORV	79.17	51	ePd	34 18.40	0.1
SAP	15.06	3	P	26 18.00	0.1	KSH	53.95	300	P	31 43.00	1.5	BRK	79.37	53	eP	34 20.10	0.8
SSE	16.99	288	eP	26 26.30	-3.3X	RMQ	54.02	170	iPc	31 40.20	-1.7	BKS	79.39	53	ePd	34 20.10	0.6
NJ2	19.10	290	Pd	26 50.60	-0.1			e	32 40.00	274kmX		PCC	79.45	53	eP	34 20.00	0.3
MDJ	19.33	337	eP	26 53.50	0.7	SVW	54.18	33	eP	31 43.20	0.4	GCC	79.93	54	eP	34 22.80	0.5
	0.8s	100.00nm		5.3mb		WARB	54.63	195	iPd	31 46.70	0.4	MHC	80.05	53	eP	34 23.70	0.6
DL2	19.37	312	eP	26 53.00	-0.2		0.6s	52.00nm		5.1mb		ARN	80.12	53	P	34 23.60	0.3
	0.8s	50.00nm		5.0mb		NANU	54.88	208	iPd	31 48.60	0.5	SAO	80.45	54	eP	34 25.40	0.4
SNY	19.92	321	iPc	26 59.50	1.0	NDI	55.00	287	iPd	31 49.00	0.0	SES	80.49	38	ePd	34 25.50	0.5
	0.8s	200.00nm		5.6mb			0.8s	97.01nm		5.2mb			1.2s	175.00nm		5.7mb	
CN2	20.37	328	iPc	27 04.00	1.1	DZM	55.20	150	iPd	31 50.90	0.4	CMB	80.63	52	ePd	34 26.70	0.7
	1.0s	200.00nm		5.5mb		KDC	55.44	37	e(P)	31 50.40	-1.2	PRS	80.70	54	ePd	34 27.10	0.0
		sP	28 40.00				0.5s	16.53nm		4.7mb		LLA	80.87	54	eP	34 28.00	0.8
		S	30 17.00			BRS	55.62	166	iPc	31 52.60	-0.6	PRI	81.29	54	eP	34 30.60	1.1
		PcP	30 58.50			IMA	55.83	27	ePd	31 54.40	-0.1	FRI	81.58	53	ePd	34 31.70	0.8
		ScP	33 57.00				0.9s	7.60nm		4.1mb X		PHAM	81.62	54	P	34 31.60	0.5
		ScS	37 39.00			HYB	57.31	274	ePd	32 05.00	-0.3	KVN	81.74	50	P	34 32.30	0.4
TIA	21.49	300	Pd	27 14.60	0.8	PMR	57.34	32	eP	32 03.40	-1.4	LRM	82.05	42	iPd	34 34.10	0.7
	0.9s	300.00nm		5.7mb			0.9s	40.80nm		4.9mb		BCH	82.15	55	P	34 34.20	0.2
WHN	22.80	285	Pc	27 27.50	1.5	MEKA	57.39	203	eP	32 05.00	-0.6	SYF	82.53	55	eP	34 37.00	1.1
BJI	23.62	309	eP	27 32.50	-0.9	FBA	58.13	29	eP	32 09.30	-1.0	HFS	82.60	336	eP	34 34.20	-1.4
	1.0s	400.00nm		5.8mb			0.8s	18.97nm		4.6mb			0.8s	47.80nm		5.3mb	
TIY	25.52	301	eP	27 51.50	0.7	COO	58.54	168	eP	32 13.00	-0.4	FFC	82.62	31	iPd	34 36.00	0.2
		S	31 50.00			TOA	58.76	32	eP	32 14.60	0.0		0.9s	62.00nm		5.4mb	
HMC	27.17	307	eP	28 05.40	-0.2	STK	58.76	179	iPd	32 14.50	-0.3	TNP	82.81	51	P	34 37.10	-0.3
XAN	27.63	292	iPd	28 10.00	0.4		0.8s	15.00nm		4.5mb		NB2	82.83	338	P	34 35.90	-0.9
	1.0s	100.00nm		5.1mb		FORR	58.85	192	iPd	32 14.00	-1.4		0.7s	34.50nm		5.2mb	
OTO	28.18	306	eP	28 14.00	-0.5		0.4s	108.00nm		5.6mb		ABL	82.93	55	P	34 38.00	-0.1
GYA	29.82	276	iPd	28 29.00	0.1	G8A	59.76	270	P	32 21.90	-0.1	ISA	83.09	54	eP	34 39.00	0.4
		pP	29 41.00	391km		COOL	60.53	199	eP	32 26.40	-0.4	PTI	83.62	45	P	34 42.20	0.9
		PcP	31 21.00			MRWA	60.67	204	iPd	32 27.50	-0.2	CLC	83.64	53	ePd	34 42.00	0.6
		S	32 56.40			POO	61.07	277	iPd	32 30.20	-0.5	S88	84.02	54	ePd	34 44.00	0.7
							0.8s	56.72nm		5.2mb		PAS	84.03	55	eP	34 44.00	0.7
						KOD	61.12	267	iPd	32 31.00	0.4	MWC	84.07	55	ePd	34 44.00	

10d 08h

PLM	85.37	55	ePd	34	50.00	-0.2
TPC	85.58	54	ePd	34	51.00	0.0
DAU	85.62	47	P	34	51.60	0.2
BAR	85.84	55	ePd	34	53.00	0.8
HRI	86.39	366	eP	34	54.00	-1.0
DSI	87.51	304	eP	34	59.00	-1.2
KSP	87.87	328	iPd	35	01.20	-0.4
				36	30.00	382km
RSSD	87.95	40	P	35	01.90	-0.5
			pP	37	43.70	
PV09	88.04	47	P	35	03.00	0.0
MBH	88.80	303	eP	35	04.50	-1.8
BRG	88.93	329	iP	35	05.60	-0.9
	1.0s	20.00nm			4.9mb	
CLL	89.05	330	iPd	35	06.30	-0.8
	1.3s	19.00nm			4.8mb	
			e	36	35.00	381km
ZST	89.25	326	eP	35	07.50	-0.5
PRU	89.27	328	ePd	35	07.50	-0.6
GOL	89.76	45	P	35	11.00	0.0
	0.9s	9.47nm			4.7mb	
GLD	89.83	44	P	35	11.80	0.7
	1.2s	50.51nm			5.3mb	
KHC	90.32	328	eP	35	12.60	-0.4
ANMO	91.82	49	P	35	20.50	0.1
	1.0s	37.50nm			5.3mb	
ALQ	91.82	49	eP	35	20.60	0.2
	0.9s	34.66nm			5.3mb	
			e	36	50.00	383km
OHR	91.82	319	eP	35	19.00	-1.1
EKA	92.00	340	P	35	20.00	-0.6
	2.6s	231.40nm			5.7mb	
OGA	93.14	328	iPc	35	25.80	-0.5
CDF	93.70	331	eP	35	27.90	-0.8
	0.6s	6.30nm			4.9mb	
LOR	96.05	332	eP	35	38.30	-1.0
	0.8s	6.70nm			4.9mb	
LPG	96.14	329	eP	35	39.30	-0.8
	0.8s	9.40nm			5.0mb	
LBF	96.22	331	eP	35	38.80	-1.3
	1.0s	6.00nm			4.7mb	
SSF	96.36	332	eP	35	39.00	-1.7
	1.0s	6.00nm			4.7mb	
AVF	96.64	332	eP	35	40.10	-1.8
	0.8s	9.40nm			5.0mb	
LPF	97.39	335	eP	35	44.50	-0.8
	0.6s	7.20nm			5.1mb	
CIR	115.25	258	iPKPc	40	53.00	0.9
KRI	115.44	263	iPKPc	40	55.60	2.9X
BCAO	115.48	290	iPKPc	40	57.50	4.7X
	0.6s	8.00nm				
SPA	117.04	180	iPKPd	40	53.00	-1.3
	0.8s	16.25nm				
BUL	117.54	260	iPKPc	40	56.30	-0.3
LKO	130.61	313	PKP	41	21.28	-0.4
	0.7s	12.00nm				
TIC	132.36	310	PKP	41	24.92	-0.1
	0.8s	9.50nm				
KIC	132.37	309	PKP	41	25.02	0.0
	0.8s	16.50nm				
LIC	132.67	309	PKP	41	25.58	0.0
	0.8s	14.00nm				
ARE	148.86	77	ePKP	41	55.00	0.6
LPB	151.81	74	PKP	42	00.00	1.1
			i	42	11.80	
LNv	152.10	112	ePKP	41	57.50	-0.8
			i	42	05.10	
PEL	152.78	110	ePKPd	42	00.10	0.7
			i	42	07.50	
SIV	157.40	65	PKP	42	06.20	0.3
			i	42	39.00	
SOB1	162.08	3	ePKPd	42	12.00	1.1
BAO	166.25	35	ePKP	42	15.50	0.7
			e	43	19.00	
VAO	172.34	59	ePKP	42	18.50	0.5
JFO	173.72	31	ePKP	42	20.10	1.5
S.D. = 0.8 on 176 of 185 obs.						
% OCT 10, 1990 10h 19m 35.99±0.58s						
43.099 N ± 7.0km 0.606 W ± 4.0km						
DEPTH = 10.0km (geophysicist)						
PYRENEES (378)						
MD 1.9 (STR).						
ESCF	0.03	132	Pg	19	37.66	-0.4
ATE	0.07	260	Pg	19	38.00	-0.4

OGE	0.12	54	Sg	19	40.24	
ISSF	0.16	243	Pg	19	39.28	0.3
			Sg	19	39.85	0.2
MADF	0.16	287	Pg	19	43.36	
			Sg	19	39.74	0.0
JAU	0.18	109	Pg	19	43.08	
LHE	0.19	184	Pg	19	40.17	0.0
BOH	0.30	271	Pg	19	40.50	0.3
			Sg	19	42.36	0.1
			Sg	19	47.11	
S.D. = 0.3 on 8 of 8 obs.						
% OCT 10, 1990 11h 14m 03.80s						
61.618 N 149.935 W						
DEPTH = 36.8km						
SOUTHERN ALASKA (2)						
<AGS-P>.						
PWA	0.04	39	iP	14	10.12	0.3
			eS	14	16.02	
PLRM	0.39	94	iP	14	12.18	-0.7
			eS	14	19.76	
PMS	0.42	154	iP	14	12.86	-0.5
			eS	14	20.57	
SUA	0.42	249	iP	14	13.05	-0.4
			eS	14	20.98	
GHO	0.51	72	iP	14	13.85	-0.8
			eS	14	22.77	
SML	0.79	75	iP	14	17.41	-1.1
CUT	0.81	349	eP	14	17.98	-0.7
			eS	14	29.14	
SKT	0.84	296	iP	14	18.24	-1.0
			eS	14	30.01	
CGLM	1.04	254	iP	14	21.53	-0.7
NKA	1.08	216	eP	14	23.58	0.9
NCG	1.09	260	iP	14	22.22	-0.6
SPU	1.11	248	P	14	22.38	-0.7
			iS	14	37.15	
SLKM	1.12	187	eP	14	21.93	-1.4
CRP	1.12	253	eP	14	23.08	-0.3
CKL	1.23	251	iP	14	24.31	-0.6
			eS	14	39.80	
BGL	1.23	254	eP	14	24.42	-0.5
SCM	1.26	79	eP	14	24.57	-0.7
HUR	1.37	6	eP	14	26.61	-0.2
SEW	1.54	171	eP	14	28.85	-0.3
GLI	1.56	117	iP	14	28.16	-1.4
			eS	14	48.09	
RDT	1.59	230	eP	14	29.24	-0.9
KNIM	1.66	139	eP	14	28.68	-2.4
NNL	1.72	203	eP	14	33.68	1.9
VZW	1.72	108	eP	14	30.73	-1.3
RSO	1.80	231	iP	14	32.69	-0.5
VLZ	1.80	104	eP	14	31.46	-1.5
RED	1.83	230	eP	14	32.94	-0.6
TOA	1.85	73	eP	14	33.72	0.0
RND	1.86	15	eP	14	33.62	-0.4
KLU	1.93	92	eP	14	33.44	-1.4
MTU	1.98	145	eP	14	35.78	0.2
CNPM	2.20	198	eP	14	39.19	0.6
SDG	2.26	64	eP	14	39.69	0.1
GLB	2.94	91	eP	14	49.45	0.2
TGL	3.55	101	eP	14	58.14	0.2
BALM	3.70	96	eP	14	58.93	-1.3
36 obs. associated						
% OCT 10, 1990 11h 32m 48.72±9.17s						
30.952 S ±56.1km 71.852 W ±58.9km						
DEPTH = 33.0km (normal)						
NEAR COAST OF CENTRAL CHILE (135)						
JACH	2.03	148	iPd	33	20.10	-1.3
			iS	33	45.00	
RTBS	2.17	110	eP	33	23.60	0.4
FCH	2.71	151	eP	33	32.00	0.8
			iS	34	05.70	
ZON	2.78	103	eP	33	33.00	1.1
TACH	2.80	164	eP	33	31.20	-1.0
PCH	2.89	157	eP	33	34.00	0.4
			iS	34	11.60	
RTLL	2.92	98	ePd	33	32.50	-1.5
			eS	34	10.10	
RTCV	2.98	109	e(P)	33	35.20	0.5
LNv	3.02	173	eP	33	36.00	0.7
			iS	34	15.00	
S.D. = 1.1 on 9 of 9 obs.						

% OCT 10, 1990 12h 20m 18.28s						
59.798 N 152.674 W						
DEPTH = 87.6km						
SOUTHERN ALASKA (2)						
<AGS-P>.						
OPT	0.32	243	iP	20	31.17	-0.6
			eS	20	40.59	
HOM	0.54	105	eP	20	33.10	-0.2
			eS	20	44.63	
AUE	0.57	219	eP	20	32.85	-0.7
AUH	0.59	222	eP	20	33.06	-0.8
XLV	0.59	125	eP	20	33.36	-0.4
AUI	0.60	220	eP	20	33.11	-0.8
RED	0.62	356	iP	20	33.46	-0.7
RSO	0.67	357	eP	20	34.06	-0.7
NNL	0.74	70	eP	20	35.54	0.4
PDB	0.77	270	iP	20	34.58	-0.9
CNPM	0.78	110	eP	20	34.97	-0.7
			eS	20	48.07	
RDT	0.79	10	iP	20	34.96	-0.9
CDD	1.00	210	eP	20	36.93	-1.2
MCNL	1.05	235	iP	20	37.39	-1.3
NKA	1.19	36	iP	20	41.69	1.4
CKL	1.41	7	iP	20	42.78	-0.5
			iS	21	02.18	
SLKM	1.42	59	eP	20	42.84	-0.5
SPU	1.42	12	iP	20	42.83	-0.5
BGL	1.48	5	eP	20	43.68	-0.5
CRP	1.50	10	eP	20	43.90	-0.5
CGLM	1.55	12	iP	20	44.62	-0.5
NCG	1.63	9	iP	20	45.72	-0.4
SEW	1.65	78	eP	20	45.29	-1.0
SUA	1.92	29	eP	20	50.01	0.0
			eS	21	14.36	
PMS	2.12	45	eP	20	51.93	-0.6
			eS	21	16.81	
SKT	2.26	14	iP	20	53.67	-0.8
PWA	2.31	35	eP	20	54.66	-0.5
PLRM	2.51	43	eP	20	56.07	-

DZM 11.70 275 iPc 25 35.40 0.7
 HBZ 13.97 182 P 25 56.80 -0.1
 0.5s 43.00nm 5.1mb
 PUZ 14.44 182 P 26 00.90 -0.7
 0.5s 43.00nm 5.1mb
 NOZ 14.99 183 P 26 07.10 0.2
 CNZ 15.83 190 P 26 17.10 2.0
 PGZ 17.12 187 eP 26 27.30 -0.2
 MNG 17.23 189 eP 26 27.70 -0.8
 0.8s 13.00nm 4.5mb
 KIW 17.56 190 eP 26 31.10 -0.6
 WDW 17.94 190 eP 26 34.60 -0.6
 MRW 17.95 191 eP 26 35.60 0.3
 BLW 17.96 189 eP 26 36.40 0.9
 TCW 18.01 192 P 26 35.90 0.0
 THZ 18.82 194 eP 26 44.60 1.0
 0.5s 29.46.50
 KHZ 19.31 192 P 26 47.40 -0.6
 0.2s 17.00nm 5.3mb
 LTZ 19.93 195 P 26 53.00 -0.8
 0.5s 30.05.20
 MQZ 20.73 193 eP 27 00.80 -0.2
 MMCZ 22.82 198 P 27 19.40 -0.7
 MHZ 22.83 198 P 27 19.50 -0.7
 TLC 23.01 198 P 27 21.50 -0.4
 BRS 23.97 255 iPc 27 31.30 0.8
 COO 25.10 248 iPd 27 41.70 1.3
 CNB 28.23 239 iPd 28 09.80 2.0
 0.2s 26.00nm 5.5mb
 CAN 28.52 239 eP 28 11.90 1.7
 BWA 28.75 241 eP 28 12.00 -0.2
 CMS 30.38 248 iP 28 26.50 0.4
 CTA 30.58 270 iPc 28 27.80 -0.1
 0.6s 80.00nm 5.5mb
 PMG 33.55 290 eP 28 52.00 -0.9
 STK 34.01 248 iPd 28 58.30 1.7
 0.7s 24.00nm 4.9mb
 ASPA 41.20 261 iPc 29 54.90 -0.3
 0.3s 38.60nm 5.4mb
 0.5s 34.40.70
 WB5 41.52 266 iPc 29 56.80 -1.0
 0.5s 34.42.60
 MTN 46.54 275 eP 30 35.00 -1.7
 0.4s 53.00nm 5.4mb
 WARB 47.32 255 iPd 30 42.00 -0.6
 0.3s 9.00nm 4.8mb
 COOL 51.49 249 eP 31 12.00 -1.3
 KLB 54.27 247 eP 31 33.00 -0.1
 MBL 54.45 260 eP 31 32.00 -2.4
 MUN 55.53 246 eP 31 41.00 -0.8
 MRWA 56.15 250 eP 31 45.20 -0.9
 SPA 66.54 180 eP 32 53.20 0.0
 1.0s 15.50nm 4.5mb
 PLM 83.26 49 eP 34 26.00 -0.1
 RVR 83.26 49 eP 34 25.00 -0.8
 SBB 83.35 48 eP 34 26.00 -0.3
 ISA 83.46 47 eP 34 27.00 0.1
 CLC 84.14 47 eP 34 30.00 -0.2
 TPC 84.24 49 eP 34 31.00 0.3
 GSC 84.38 48 eP 34 32.00 0.6
 CHTO 88.73 291 eP 34 53.90 1.7
 1.0s 1.75nm 3.9mb X
 SOB1 129.15 125 ePKP 41 02.10 -1.3
 0.5s 43.31.90
 NUR 139.04 341 ePKP 41 37.00 16.5X
 NB2 141.65 350 PKP 41 19.30 -6.0X
 0.7s 3.70nm
 HFS 142.08 348 ePKP 41 19.90 -6.0X
 0.3s 3.40nm
 EKA 148.27 2 PKP 41 40.00 3.7X
 1.0s 17.90nm
 KRA 148.95 334 iPKPc 41 42.30 4.8X
 KSP 149.68 338 iPKP 41 43.90 5.3X
 0.7s 29.00nm
 CLL 150.30 342 iPKPc 41 45.90 6.4X
 0.9s 42.00nm
 BRG 150.42 341 iPKP 41 45.50 5.8X
 0.8s 30.00nm
 PRU 151.00 339 PKPc 41 47.30 6.7X
 MOX 151.28 343 ePKP 41 48.00 7.0X
 KHC 152.06 339 ePKP 41 48.50 6.3X
 BCAO 153.21 228 iPKPc 41 46.00 1.2
 0.5s 4.00nm
 0.5s 44.07.80
 LIC 162.29 167 PKP 41 56.30 0.9

KIC 162.48 167 PKP 41 56.50 0.9
 TIC 162.70 166 PKP 41 56.80 1.0
 S.D. = 1.0 on 51 of 62 obs.
 * OCT 10, 1990 14h 34m 06.17±1.74s
 15.436 N ± 6.8km 147.080 E ± 11.3km
 DEPTH = 36.5 ± 14.7 km
 4.9mb (5 obs.) 4.2MsZ (1 obs.)
 MARIANA ISLANDS REGION (215)
 GUA 2.82 228 eP 34 49.70 -0.2
 0.5s 35.25.90
 GUMO 2.82 230 eP 34 50.20 0.3
 CHJJ 21.76 342 P 38 54.90 -1.7
 MAT 22.46 341 eP 39 02.00 -1.5
 NIJJ 22.87 343 P 39 07.30 -0.2
 YAMJ 23.49 346 eP 39 14.40 0.9
 OFUJ 24.03 350 eP 39 19.50 0.8
 PMG 24.68 180 eP 39 25.00 -0.3
 WBS 37.25 200 eP 41 16.10 -0.3
 0.5s 41.26.00
 TIY 37.78 313 eP 41 21.40 0.6
 Z 20s 0.40um 4.2MsZ
 XAN 39.01 305 P 41 31.20 0.1
 GYA 39.16 293 P 41 34.00 1.5
 BTO 40.76 315 eP 41 46.00 0.4
 CD2 42.42 299 eP 41 59.00 -0.3
 LZH 43.60 306 P 42 09.50 0.6
 1.4s 52.00nm 5.1mb
 Z 16s 0.20um 4.1MsZ X
 CHTO 46.02 281 eP 42 28.60 0.3
 1.0s 4.75nm 4.4mb
 GTA 47.60 310 eP 42 40.70 0.0
 1.4s 20.00nm 4.9mb
 Z 16s 0.30um 4.4MsZ X
 E 10s 0.20um
 SHL 52.36 291 eP 43 17.00 -0.4
 LSA 53.10 296 eP 43 23.80 0.6
 WMQ 57.45 312 P 43 53.50 -0.5
 1.5s 30.00nm 5.1mb
 S 51.52.00
 INK 71.85 23 eP 45 27.50 0.6
 MBC 75.97 14 eP 45 50.50 -0.2
 1.5s 16.00nm 4.8mb
 SES 85.63 39 eP 46 43.00 0.6
 KIC 144.67 306 PKP 53 40.08 -1.6
 TIC 144.71 306 PKP 53 40.10 -1.7
 LIC 144.98 306 PKP 53 41.26 -0.9
 ZOBO 146.15 96 PKP 53 45.00 0.2
 LPB 146.19 97 ePKP 53 55.00 10.3X
 CNCB 146.32 97 PKP 53 47.00 1.9
 SIV 152.90 95 ePKP 53 55.00 0.6
 S.D. = 0.9 on 29 of 30 obs.
 ? OCT 10, 1990 14h 37m 28.26±5.18s
 32.337 S ± 36.8km 71.659 W ± 24.6km
 DEPTH = 23.3 ± 8.7 km
 NEAR COAST OF CENTRAL CHILE (135)
 ROCH 0.84 139 ePd 37 43.50 -0.7
 0.5s 37.53.40
 JACH 0.96 111 iPd 37 46.00 -0.3
 0.5s 37.57.90
 LCCH 1.14 176 iPd 37 48.50 -0.3
 0.5s 38.01.80
 TACH 1.45 155 eP 37 52.70 -0.4
 0.5s 38.10.50
 FCH 1.52 131 iPd 37 53.80 -0.7
 0.5s 38.13.00
 PCH 1.60 143 iPd 37 55.50 0.0
 0.5s 38.16.00
 LNV 1.63 173 iP 37 55.00 -0.7
 0.5s 38.14.00
 CHCH 1.80 152 iP 37 58.60 0.2
 0.5s 38.21.50
 S.D. = 0.5 on 8 of 8 obs.
 ? OCT 10, 1990 15h 02m 55.38±4.23s
 26.775 S ± 12.6km 72.805 W ± 88.9km
 DEPTH = 10.0km (geophysicist)
 OFF COAST OF NORTHERN CHILE (121)
 ANT 3.75 36 iPc 03 54.50 0.0
 0.5s 04.40.50
 ZON 5.97 144 e(P) 04 41.00 15.1X
 PEL 6.61 164 eP 04 35.00 0.0
 0.5s 06.05.70

MDZ 6.99 152 eP 04 57.20 16.8X
 0.5s 06.19.50
 CNCB 10.88 25 eP 05 35.00 0.2
 LPB 11.09 24 eP 05 36.00 -1.5
 ZOBO 11.32 24 P 05 42.00 1.2
 SIV 15.30 48 P 06 25.00 -8.2X
 PPD 20.13 81 eP 07 30.40 -2.0X
 VAO 23.72 87 eP 08 04.30 -4.2X
 S.D. = 1.4 on 5 of 10 obs.
 OCT 10, 1990 15h 03m 23.55±0.76s
 38.324 N ± 7.0km 22.217 E ± 8.3km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 3.0 (ATH).
 EVR 0.67 332 ePn 03 35.70 -1.3
 ITM 1.16 191 ePn 03 45.20 -0.1
 ATH 1.23 106 ePb 03 46.60 0.1
 VLS 1.29 264 ePb 03 48.00 0.5
 VLI 1.70 160 ePn 03 53.10 -0.3
 KZN 2.01 350 ePb 03 59.00 1.0
 S.D. = 1.0 on 6 of 6 obs.
 OCT 10, 1990 15h 32m 16.27±0.20s
 29.162 N ± 4.7km 132.000 E ± 3.2km
 DEPTH = 33.0km (normal)
 5.1mb (42 obs.) 4.4MsZ (4 obs.)
 SOUTHEAST OF SHIKOKU, JAPAN (237)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 10S, 17C
 Centroid Location:
 Origin Time 15:32:19.8 1.8
 Lat 29.19N 0.15 Lon 131.66E 0.15
 Dep 15.0 FIX Half-duration 1.5
 Moment Tensor; Scale 10**16 Nm
 Mrr=-3.49 0.39 Mtl= 0.84 0.46
 Mff= 2.65 0.48 Mrl= 0.59 1.19
 Mrf= 3.70 1.32 Mtf= 2.68 0.40
 Principal Axes:
 T Vol= 5.83 Plg=21 Azm=300
 N -0.54 18 203
 P -5.30 62 76
 Best Double Couple: Mo=5.6*10**16
 NP1: Strike= 58 Dip=29 Slip= -51
 NP2: 196 68 -109
 SHK 5.38 6 iPd 33 36.00 -0.4
 0.8s 462.69nm 6.0mb
 MAT 9.02 34 iPd 34 25.80 -1.4
 0.6s 41.33nm 5.8mb
 (S) 36 03.00
 SSE 9.56 284 Pc 34 33.80 -0.8
 1.0s 680.00nm 6.8mb X
 Z 20s 1.00um
 E 11s 2.80um
 pP 34 40.50
 NJ2 11.69 288 Pc 35 02.50 -1.2
 1.2s 100.00nm 5.9mb
 Z 12s 0.90um 4.5MsZ
 DL2 12.97 321 eP 35 20.60 -0.2
 TIA 14.35 303 eP 35 39.00 -0.1
 WHN 15.38 279 Pc 35 56.50 4.1X
 1.0s 50.00nm 4.7mb
 Z 12s 1.20um 5.4MsZ
 E 12s 1.30um
 sP 36 07.00
 MDJ 15.54 354 Pd 36 01.00 6.5X
 1.0s 100.00nm 5.0mb
 N 16s 1.50um
 BJ1 16.93 314 eP 36 13.50 1.4
 1.6s 91.00nm 4.7mb
 Z 22s 1.23um 3.8MsZ
 TIY 18.40 303 Pc 36 30.60 0.1
 1.0s 100.00nm 4.9mb
 Z 14s 1.60um
 N 13s 1.10um
 pP 36 41.90
 GUMO 19.56 140 eP 36 45.00 0.6
 GUA 19.63 140 eP 36 45.70 0.6
 XAN 20.24 290 P 36 49.80 -1.6
 1.0s 100.00nm 5.1mb
 N 10s 0.90um
 E 11s 0.40um
 sP 37 05.50

10d 15h

HMC 20.35 310 eP 36 51.40 -1.2
 Z 24s 1.40um 4.2MszX
 N 13s 0.90um
 BTD 21.28 308 eP 37 00.00 -2.1
 Z 14s 0.80um 4.3MszX
 N 14s 0.60um
 E 14s 0.50um
 GYA 22.56 269 P 37 14.00 -1.1
 N 14s 1.00um
 E 14s 1.80um
 CD2 24.49 281 P 37 33.20 -0.5
 E 12s 0.90um
 LZH 24.64 294 iPc 37 34.70 -0.6
 2.5s 160.00nm 5.1mb
 Z 25s 1.10um 4.3MszX
 KMI 26.31 268 Pd 37 50.50 -0.6
 1.5s 60.00nm 5.0mb
 Z 14s 1.90um 4.8MszX
 GTA 28.36 300 eP 38 05.00 0.5
 1.0s 20.00nm 4.8mb
 Z 12s 0.90um 4.6MszX
 E 13s 0.90um
 CHTD 31.81 259 iPc 38 40.60 0.4
 1.2s 16.32nm 4.8mb
 LSA 35.45 281 eP 39 12.00 -0.1
 SHL 35.69 274 eP 39 15.00 1.1
 WMO 38.04 305 eP 39 32.50 -0.8
 Z 20s 0.50um 4.3MszX
 IPM 38.19 236 ePc 39 44.80 10.1X
 1.0s 28.40nm
 PSI 41.00 236 ePd 40 07.60 9.6X
 KSH 46.74 298 eP 40 48.70 4.4X
 NDI 47.57 283 eP 40 51.00 0.2
 0.7s 17.12nm 5.2mb
 WB5 48.81 177 eP 40 58.60 -1.7
 ASPA 52.56 178 eP 41 27.10 -1.7
 0.4s 12.00nm 5.2mb
 GBA 52.67 265 P 41 30.00 0.1
 KOD 54.19 261 eP 41 42.60 1.2
 QUE 55.81 288 eP 41 54.10 1.2
 IMA 57.38 28 eP 42 02.80 -0.8
 1.2s 16.10nm 4.9mb
 KDC 58.23 30 P 42 08.20 -1.2
 0.9s 20.83nm 5.2mb
 PMR 59.57 33 P 42 17.30 -1.4
 1.0s 32.50nm 5.4mb
 BRS 59.65 159 iP 42 19.00 -0.7
 FBA 59.87 29 P 42 20.20 -0.6
 0.8s 8.62nm 4.9mb
 MAID 60.12 297 eP 42 25.00 2.1
 STK 61.39 171 iPc 42 30.80 -0.6
 1.0s 7.00nm 4.7mb
 INK 64.07 24 eP 42 53.00 -1.0
 MBC 66.19 14 eP 43 02.00 -0.3
 1.0s 29.00nm 5.3mb
 SUF 71.33 332 eP 43 34.00 -0.3
 DAG 72.79 353 iPd 43 42.50 -0.2
 0.6s 31.11nm 5.5mb
 NUR 73.01 330 eP 43 50.00 5.7X
 HFS 77.75 333 eP 44 10.00 -1.2
 0.7s 7.90nm 4.9mb
 NB2 78.13 335 P 44 12.60 -0.8
 1.0s 17.70nm 5.0mb
 GMW 78.40 42 P 44 15.30 0.2
 PNT 79.28 39 eP 44 20.00 0.1
 VRI 79.29 317 eP 44 21.00 1.0
 LON 79.38 42 P 44 20.20 -0.3
 EDM 80.33 34 eP 44 25.50 0.1
 ALT 80.57 309 eP 44 26.00 -1.1
 DPW 80.85 40 P 44 28.30 0.0
 KRA 80.86 323 eP 44 29.00 0.8
 1.0s 25.00nm 5.2mb
 SPC 81.19 322 eP 44 32.50
 NEW 81.24 39 P 44 35.40
 WDC 82.15 48 iPd 44 31.60 1.4
 LBFM 82.17 47 P 44 30.00 -0.3
 KSP 82.28 325 iPd 44 34.90 -0.3
 SRO 83.03 322 eP 44 35.80 0.3
 SES 83.18 35 ePd 44 36.40 0.8
 ORV 83.37 48 ePd 44 43.90 4.3X
 BRG 83.43 326 iP 44 40.20 -0.2
 44 40.70 -0.8
 44 41.60 0.0

1.0s 20.00nm 5.2mb
 ZST 83.46 322 eP 44 42.90 1.1
 CLL 83.61 326 iPd 44 43.40 0.9
 1.2s 50.00nm 5.5mb
 PRU 83.69 325 Pc 44 44.20 1.3
 BKS 83.78 50 e(P) 44 43.20 -0.4
 FFC 84.46 28 eP 44 47.00 0.3
 1.1s 23.00nm 5.3mb
 MHC 84.46 50 ePd 44 47.60 0.4
 ARN 84.53 50 P 44 47.20 -0.3
 SKO 84.61 315 iP 44 49.10 1.4
 MOX 84.71 327 iP 44 49.00 1.0
 e 45 37.00
 KHC 84.72 325 iPc 44 49.50 1.3
 CMB 84.93 49 ePd 44 49.40 0.0
 PRS 85.19 51 ePd 44 51.20 0.5
 LRM 85.25 39 eP 44 51.60 0.4
 OHR 85.50 315 eP 44 45.00 -7.2X
 GRF 85.53 326 eP 44 53.70 1.5
 1.4s 18.00nm 5.1mb
 Z 22s 0.20um 4.5MszX
 PRI 85.77 51 ePd 44 54.00 0.2
 FRI 85.95 50 ePd 44 54.00 -0.5
 BCH 86.69 51 P 44 59.50 1.2
 FVI 86.75 323 P 45 02.50 4.3X
 TRI 86.79 322 P 45 06.00 7.6X
 TNP 86.97 48 P 44 59.90 0.1
 0.9s 19.21nm 5.3mb
 ABL 87.47 51 P 45 02.20 0.0
 ISA 87.52 50 eP 45 02.00 -0.3
 CTI 87.70 323 P 45 09.00 6.0X
 CLC 88.02 50 eP 45 05.00 0.4
 CDF 88.31 327 eP 45 05.70 -0.1
 1.0s 14.00nm 5.2mb
 DUG 88.48 44 P 45 07.80 0.9
 SBB 88.51 51 eP 45 07.00 0.0
 BW06 88.78 40 P 45 09.80 1.4
 GSC 88.84 50 eP 45 09.00 0.3
 BSF 88.94 327 eP 45 08.20 -0.7
 0.9s 8.20nm 5.1mb
 SFI 88.99 321 P 45 11.00 2.0
 HAU 89.03 327 eP 45 08.60 -0.6
 1.0s 8.00nm 5.0mb
 Z 20s 0.17um 4.5MszX
 PGD 89.09 321 P 45 11.00 1.2
 ASS 89.09 320 P 45 11.00 1.3
 DAU 89.28 43 P 45 11.40 0.4
 TPC 90.04 50 eP 45 14.00 -0.3
 LOR 90.74 328 eP 45 16.50 -0.7
 0.8s 5.35nm 4.9mb
 Z 20s 0.15um 4.4MszX
 LBF 90.89 327 eP 45 17.20 -0.7
 0.9s 6.55nm 5.0mb
 RSSD 90.89 37 P 45 17.80 -0.4
 SSF 91.05 328 eP 45 18.20 -0.4
 1.0s 5.00nm 4.8mb
 SMF 91.20 327 eP 45 18.80 -0.5
 1.0s 6.00nm 4.9mb
 AVF 91.32 328 eP 45 19.50 -0.3
 1.1s 9.75nm 5.1mb
 GRR 92.02 331 eP 45 22.90 -0.1
 0.8s 6.70nm 5.1mb
 LPF 92.37 331 eP 45 24.80 0.2
 1.0s 20.00nm 5.5mb
 MFF 93.07 329 eP 45 28.10 0.2
 1.0s 12.00nm 5.3mb
 GOL 93.18 41 P 45 29.70 0.8
 0.9s 8.05nm 5.2mb
 ALO 95.71 45 eP 45 41.00 0.5
 1.2s 8.59nm 5.1mb
 KIC 125.43 303 PKP 51 15.80 -0.4
 LIC 125.73 303 PKP 51 16.10 -0.8
 ZOBD 157.48 60 ePKP 52 09.00 -2.5X
 i 52 42.00
 CNCB 157.92 61 ePKP 52 35.00 23.0X
 SIV 162.20 45 PKP 52 16.60 0.8
 i 53 02.20
 S.D. = 0.9 on 104 of 117 obs.
 OCT 10, 1990 15h 34m 45.21±0.70s
 44.031 N ± 6.9km 12.077 E ± 4.7km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 SFI 0.20 236 Pc 34 49.50 0.0
 eSg 34 52.80

RSM 0.29 111 P 34 49.90 -1.4
 PGD 0.30 239 P 34 50.80 -0.7
 eSg 34 55.70
 CRE 0.41 193 P 34 53.20 -0.5
 eSg 35 00.00
 ARV 0.82 130 P 35 02.00 0.9
 eSg 35 15.00
 MME 1.00 280 P 35 05.00 0.6
 ASS 1.05 156 P 35 06.20 1.2
 BDI 1.07 272 P 35 05.30 -0.1
 eSg 35 19.60
 TRI 2.06 35 eP 35 20.30 0.0
 e 35 23.00
 e 35 42.80
 e(Sg) 35 53.30
 S.D. = 0.9 on 9 of 9 obs.
 OCT 10, 1990 16h 11m 52.04±0.61s
 44.017 N ± 6.2km 12.075 E ± 5.0km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 SFI 0.19 239 Pc 11 56.50 0.3
 eSg 11 58.40
 RSM 0.29 108 P 11 56.20 -1.8
 eSg 12 02.20
 PGD 0.29 241 Pc 11 57.90 -0.3
 eSg 12 03.00
 CRE 0.40 193 Pc 12 00.20 0.0
 eSg 12 07.40
 ARV 0.81 129 P 12 08.00 0.2
 eSg 12 20.60
 MME 1.01 281 P 12 12.00 0.7
 eSg 12 26.80
 ASS 1.04 156 P 12 12.90 1.2
 eSg 12 29.40
 BDI 1.07 273 P 12 12.20 0.0
 eSg 12 27.70
 PII 1.16 256 P 12 13.10 -0.6
 eSg 12 29.10
 MNS 1.69 165 P 12 21.40 -0.4
 TRI 2.07 35 eP 12 27.40 0.1
 e 12 29.70
 i 12 50.00
 i(Sg) 12 59.70
 RIY 2.12 50 ePn 12 30.60 2.7
 VDY 2.39 32 e(Pn) 12 35.30 3.3X
 eSn 13 09.60
 CEY 2.40 43 e(Pn) 12 36.00 4.0X
 eSn 13 10.50
 FVI 2.62 11 P 12 33.10 -2.0
 LJU 2.67 40 eP 12 42.00 6.1X
 eSn 13 18.50
 PTJ 3.34 54 eP 13 42.20 56.8X
 S.D. = 1.3 on 13 of 17 obs.
 OCT 10, 1990 17h 28m 12.32±1.38s
 40.466 N ± 8.4km 25.657 E ± 14.0km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)
 MD 3.2 (ISK).
 RDO 0.69 352 eP 28 25.80 -0.1
 eS 29 14.50
 PRK 1.31 159 eP 28 37.00 0.5
 eS 28 48.00
 EDC 1.69 93 iPg 28 41.90 -0.1
 iSg 28 56.90
 BNT 1.73 93 iPg 28 41.80 -0.8
 iSg 28 55.00
 KCT 2.07 95 iPg 28 46.80 -0.8
 CTT 2.21 71 iPn 28 54.30 4.7X
 IZM 2.41 148 ePn 28 52.00 -0.5
 DST 2.44 110 iPn 28 49.50 -3.3X
 ISK 2.65 76 ePn 29 02.00 6.1X
 YLV 2.83 87 ePn 29 00.30 1.8
 S.D. = 1.1 on 7 of 10 obs.
 OCT 10, 1990 17h 49m 21.92s
 63.268 N 148.998 W
 DEPTH = 6.7km
 CENTRAL ALASKA (1)
 <AGS-P>. ML 3.3 (PMR).
 RND 0.15 25 iP 49 25.10 -0.2
 HUR 0.41 225 iP 49 30.03 -0.2
 eS 49 35.87

MCK	0.47	3	iP	49 30.98	-0.3
			eS	49 37.99	
CUT	1.04	215	iP	49 41.33	-0.6
WRH	1.27	18	iP	49 45.41	-0.4
			eS	50 02.14	
NEA	1.32	359	eP	49 46.11	-0.4
			eS	50 04.11	
HDA	1.46	38	eP	49 48.60	-0.1
			eS	50 07.79	
CCB	1.48	20	iP	49 48.70	-0.3
			eS	50 07.65	
DDM	1.50	68	eP	49 50.16	0.8
SML	1.50	168	iP	49 48.76	-0.5
GHO	1.50	179	iP	49 48.79	-0.6
			eS	50 08.36	
SCM	1.63	151	eP	49 51.04	-0.3
			eS	50 12.65	
PWA	1.67	195	iP	49 51.92	0.2
PLRM	1.68	182	eP	49 51.50	-0.4
PMR	1.68	182	iPc	49 51.40	-0.5
			IS	50 13.70	
FBA	1.72	17	iPd	49 52.30	-0.2
SKT	1.74	223	iP	49 52.81	0.0
SDG	1.75	114	eP	49 53.04	0.1
TOA	1.75	131	iPc	49 53.40	0.4
GLM	1.87	22	eP	49 54.32	-0.3
SUA	1.99	205	eP	49 56.10	-0.3
PMS	2.05	188	eP	49 57.48	0.2
DOT	2.25	78	eP	50 00.29	0.1
KLU	2.29	140	eP	50 00.78	0.0
CGLM	2.42	217	eP	50 04.16	1.5
VLZ	2.48	149	eP	50 04.01	0.6
CRP	2.49	218	eP	50 05.26	1.5
VZW	2.50	152	eP	50 04.19	0.5
SPU	2.54	216	eP	50 04.24	0.0
GLI	2.56	159	eP	50 05.40	0.9
BGL	2.56	220	eP	50 05.84	1.2
CKL	2.60	218	eP	50 06.80	1.6
KNIM	2.99	168	eP	50 11.11	0.5
GLB	3.03	125	eP	50 12.88	1.6
RDT	3.15	212	eP	50 13.97	1.1
SEW	3.18	184	eP	50 14.30	1.0
TTA	3.21	267	eP	50 21.30	7.5
RSO	3.33	214	eP	50 16.96	1.3
IMA	3.46	326	iPc	50 17.50	0.1
SVW	3.79	238	eP	50 25.40	3.4
BALM	3.84	123	eP	50 22.88	0.0
TGL	3.85	128	eP	50 25.04	2.1

42 obs. associated

& OCT 10, 1990 17h 55m 49.20s
38.797 N 122.833 W
DEPTH = 5.0km
NORTHERN CALIFORNIA (36)
<BRK>. ML 3.9 (BRK).
Mo=9.8+10+14 Nm (BRK). Felt (V)
of Cobb. (IV) of Finley and
(III) of Loch Lomond.

ZSP	0.96	152	eP	56 07.00	-1.0
			eS	56 23.00	
BRK	1.03	154	eP	56 07.80	-1.2
			eS	56 23.00	
BKS	1.03	153	ePc	56 07.00	-2.2
			eS	56 22.60	
ORV	1.28	53	ePd	56 11.40	-2.1
PCC	1.34	164	eP	56 12.40	-2.0
LTCM	1.51	21	eP	56 14.50	-2.5
MHC	1.73	147	ePc	56 17.30	-2.9
ARN	1.77	144	eP	56 18.50	-2.3
WDC	1.80	7	ePd	56 20.80	-0.2
GCC	1.88	159	eP	56 19.10	-3.2
CMB	2.07	111	iPc	56 23.40	-1.7
FHC	2.19	336	ePd	56 24.90	-1.9
SAO	2.31	151	eP	56 25.60	-2.9
LLA	2.64	145	ePd	56 30.60	-2.7
LBFM	2.65	16	eP	56 33.50	0.0
PRS	2.72	154	eP	56 31.80	-2.6
FRI	3.06	125	ePd	56 37.40	-1.7
KVN	3.70	85	eP	56 45.50	-3.0
TNP	4.47	97	eP	56 57.50	-1.8
ISA	4.68	131	eP	57 01.00	-1.2
CLC	5.13	124	eP	57 15.00	6.5
SBB	5.74	134	eP	57 14.00	-3.3
BW06	10.82	64	eP	58 30.00	1.9
MEO	19.81	94	e(P)	00 23.00	-0.5

24 obs. associated

& OCT 10, 1990 18h 35m 34.49s
56.973 N 143.381 W
DEPTH = 10.0km (geophysicist)
3.9mb (1 obs.)
GULF OF ALASKA (15)
<AGS-P>.

MID	2.92	329	eP	36 15.86	-5.9
			eS	36 48.60	
YKU	3.23	35	iP	36 20.99	-5.1
			eS	36 57.13	
PNL	3.42	36	iP	36 23.08	-5.9
HON	3.44	42	iP	36 22.96	-6.3
YAH	3.51	13	eP	36 25.02	-5.3
YAH	3.51	13	eP	36 25.07	-5.3
BCPM	3.58	32	iP	36 25.33	-5.8
TGL	3.81	4	iP	36 28.89	-5.6
KNIM	4.08	328	eP	36 31.66	-6.6
BALM	4.11	7	iP	36 33.23	-5.6
			IS	37 17.63	
GLI	4.36	335	eP	36 36.79	-5.5
SIT	4.41	86	eP	36 32.93	-9.9
			eS	37 19.07	
VZW	4.41	340	eP	36 36.77	-6.3
VLZ	4.44	341	eP	36 37.28	-6.1
SEW	4.47	317	eP	36 37.01	-6.7
GLB	4.49	357	iP	36 38.18	-5.9
KLU	4.72	345	eP	36 41.36	-6.1
CNPM	4.87	305	eP	36 42.62	-7.0
SLKM	5.02	318	eP	36 46.09	-5.6
HOM	5.12	305	eP	36 47.59	-5.4
NNL	5.17	310	eP	36 48.55	-5.1
SCM	5.28	339	eP	36 49.89	-5.4
PMS	5.34	326	eP	36 49.38	-6.8
TOA	5.34	346	eP	36 52.34	-3.9
SML	5.47	335	eP	36 51.77	-6.2
PLRM	5.49	330	eP	36 53.25	-5.0
GHO	5.58	332	eP	36 54.76	-4.9
CDD	5.81	294	eP	36 57.21	-5.5
AUH	5.84	298	eP	36 58.39	-4.8
OPT	5.84	301	eP	36 57.76	-5.5
RDT	5.92	311	eP	36 58.06	-6.3
RED	5.99	309	eP	36 58.77	-6.6
RSO	6.01	310	eP	36 59.65	-6.0
SPU	6.15	317	eP	37 01.12	-6.4
CGLM	6.21	318	eP	37 02.56	-5.9
CRP	6.24	317	eP	37 03.08	-5.8
CKL	6.26	316	eP	37 03.45	-5.8
BGL	6.32	317	eP	37 04.43	-5.7
NCG	6.33	318	eP	37 04.51	-5.7
PDB	6.35	301	eP	37 03.35	-7.0
CUT	6.47	330	eP	37 06.88	-5.1
SKT	6.51	324	eP	37 06.59	-6.1
INK	12.22	18	eP	38 26.00	-5.3
MBC	21.23	16	eP	40 20.00	-2.2
			1.0s 6.00nm 3.9mb		

44 obs. associated

& OCT 10, 1990 18h 47m 41.36±0.47s
44.657 N ±3.8km 7.267 E ±5.0km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

PZZ	0.19	218	P	47 45.57	-0.1
			S	47 47.52	
STV	0.42	174	P	47 49.88	0.0
			S	47 54.49	
RRL	0.43	308	P	47 50.39	0.1
			S	47 55.72	
RSP	0.49	359	P	47 51.11	-0.3
			S	47 54.90	
ROB	0.56	130	P	47 52.75	-0.1
			S	48 00.54	
LSD	0.80	354	P	47 57.37	0.2
			S	48 07.72	
FIN	0.81	123	P	47 57.16	0.1
			S	48 07.11	
IMI	0.87	149	P	47 58.29	0.1
			S	48 08.23	
PCP	0.92	97	P	47 59.01	0.0
			S	48 11.41	

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

? OCT 10, 1990 19h 43m 04.38±1.37s
46.049 N ±18.3km 151.946 E ±42.0km
DEPTH = 33.0km (normal)

4.5mb (12 obs.)
KURIL ISLANDS (221)

KUSJ	5.95	243	P	44 30.80	-1.6
			eS	45 33.10	
MAT	14.01	232	eP	46 31.00	8.4x
			0.5s 16.20nm	5.0mb	
CHTO	51.17	256	eP	52 06.60	0.2
			1.0s 3.25nm	4.2mb	
WB5	67.52	198	eP	53 58.80	-0.5
NB2	68.63	341	P	54 04.60	-1.2
			0.5s 1.60nm	4.4mb	
HFS	68.83	339	eP	54 04.70	-2.3
			0.4s 3.10nm	4.7mb	
CLL	76.76	335	eP	54 53.00	-0.8
CDF	80.99	337	eP	55 17.00	0.1
			0.6s 3.60nm	4.5mb	
LOR	82.94	339	eP	55 27.20	0.2
			0.6s 2.70nm	4.5mb	
LBF	83.18	339	eP	55 28.40	0.1
			1.0s 4.00nm	4.5mb	
SSF	83.23	339	eP	55 28.70	0.3
			0.8s 4.05nm	4.6mb	
AVF	83.52	339	eP	55 30.30	0.4
			0.6s 1.80nm	4.4mb	
SMF	83.53	339	eP	55 30.50	0.5
			0.8s 6.70nm	4.8mb	
LPL	83.79	336	eP	55 32.70	1.0
LPG	83.81	336	eP	55 32.70	0.9
			0.6s 1.80nm	4.4mb	
MAF	84.24	339	eP	55 34.80	1.2
			0.6s 4.50nm	4.8mb	

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

? OCT 10, 1990 19h 47m 38.22±1.67s
35.288 S ±14.2km 72.532 W ±20.2km
DEPTH = 12.9 ± 3.6 km
4.8mb (2 obs.)
NEAR COAST OF CENTRAL CHILE (135)
Felt (II) in the Santiago area.

LNV	1.62	35	iPd	48 07.00	0.5
LCCH	1.98	24	iP	48 13.00	1.3
CHCH	2.06	49	iPd	48 12.60	-0.3
TACH	2.10	39	iPc	48 13.60	0.1
PCH	2.36	46	iPd	48 17.00	-0.3
SAN	2.40	41	iPc	48 18.00	0.2
			i	48 41.50	
PEL	2.63	36	iPc	48 21.30	0.1
ROCH	2.63	29	iPc	48 21.90	0.6
			IS	48 47.00	
FCH	2.70	44	iPc	48 22.00	-0.4
JACH	3.06	32	iPd	48 27.60	0.4
			IS	48 56.50	
MDZ	3.88	53	eP	48 39.40	0.4
			e	48 45.80	
			i(S)	48 59.70	
RTBS	4.44	36	eP	48 48.00	1.3
RTCV	4.77	45	eP	48 51.00	-0.6
RTCB	4.91	41	iPc	48 53.20	-0.4
			eS	49 53.20	
ZON	4.93	42	eP	48 54.00	0.2
RTLL	5.21	42	iPd	48 56.20	-1.5
ZOBO	19.35	13	P	52 07.00	0.0
			LR	58 24.00	
SIV	21.78	31	P	52 29.60	-2.2
			i	52 46.40	
PPD	22.77	60	(P)	52 44.00	2.5
SOB1	38.82	56	eP	55 02.80	-1.9
LIC	75.57	72	P	59 24.60	0.0
TIC	75.83	71	P	59 26.00	-0.1
KIC	75.87	72	P	59 26.60	0.2
			0.6s 4.50nm	4.7mb	
LKO	77.22	69	Pc	59 34.62	0.7
			0.6s 6.00nm	4.9mb	
GBA	145.39	121	PKP	07 20.00	2.1x

S.D. = 1.1 on 24 of 25 obs.

? OCT 10, 1990 20h 12m 26.63±3.48s
21.607 N ±10.0km 143.094 E ±37.3km
DEPTH = 329.8 ± 39.5 km
4.4mb (4 obs.)
MARIANA ISLANDS REGION (215)

WKYJ</

10d 20h

CHJJ	14.83	347 P	eS	18 18.30	15 42.20	-0.7
			eS	18 23.70		
MAT	15.48	345 eP	eP	15 49.00	-0.9	
	0.5s	16.20nm		4.6mb		
			eS	18 33.00		
MTMJ	15.62	344 P		15 50.40	-1.1	
YONJ	15.95	330 eP		15 55.10	0.2	
NIJ	15.98	348 P		15 54.50	-0.7	
YAMJ	16.72	352 P		16 04.10	1.1	
OFUJ	17.46	356 P		16 11.90	1.3	
MTN	36.20	200 eP		19 00.00	-0.5	
	0.3s	37.00nm		5.3mb		
WB5	42.11	192 iP		19 49.10	0.1	
ASPA	45.88	192 iPd		20 19.20	0.3	
	0.6s	6.30nm		4.1mb		
HFS	88.78	337 eP		24 44.20	-0.2	
	0.5s	1.30nm		4.1mb		
S.D. = 0.9 on 14 of 14 obs.						

? OCT 10, 1990 20h 40m 38.64 ± 4.52s
 13.968 S ± 38.9km 167.059 E ± 16.1km
 DEPTH = 142.4 ± 42.0 km
 4.9mb (2 obs.)

VANUATU ISLANDS (186)

BKM	3.85	163 iPd		41 37.30	-0.2	
DZM	8.08	184 iPc		42 34.80	0.3	
		iS		44 00.20		
STK	29.34	228 iPc		46 29.90	-0.2	
	0.4s	13.00nm		5.0mb		
WB5	31.79	255 eP		46 52.00	0.3	
ASPA	32.76	248 eP		46 59.60	-0.6	
	0.4s	7.60nm		4.8mb		
NANU	49.48	252 eP		49 17.00	0.4	
GRR	144.25	346 ePKP		59 59.10	0.0	
	0.6s	5.40nm				
SSF	144.25	341 ePKP		59 58.90	-0.3	
	0.6s	3.60nm				
LPL	144.42	336 ePKP		00 00.10	0.2	
	0.6s	1.80nm				
LPG	144.43	336 ePKP		00 00.10	0.1	
	0.6s	3.15nm				
AVF	144.54	341 ePKP		59 59.60	-0.1	
LPF	144.63	346 ePKP		59 59.90	0.1	
	0.6s	3.60nm				
S.D. = 0.4 on 12 of 12 obs.						

* OCT 10, 1990 22h 00m 26.20 ± 3.90s
 43.770 N ± 22.3km 8.409 E ± 18.1km
 DEPTH = 10.0km (geophysicist)

CORSICA (380)

IMI	0.40	291 P		00 34.36	-0.1	
		S		00 40.00		
FIN	0.46	342 P		00 35.80	0.2	
		S		00 42.36		
ROB	0.65	324 P		00 39.08	-0.2	
		S		00 48.21		
SBF	0.71	278 Pq		00 40.40	0.1	
		Sq		00 50.00		
PCP	0.78	7 P		00 41.34	-0.1	
		S		00 51.69		
ENR	0.85	303 P		00 42.98	0.4	
		S		00 53.33		
STV	0.92	302 P		00 43.39	-0.4	
S.D. = 0.3 on 7 of 7 obs.						

? OCT 10, 1990 23h 12m 22.87 ± 6.33s
 33.854 S ± 21.1km 72.275 W ± 54.6km
 DEPTH = 46.8 ± 25.6 km

OFF COAST OF CENTRAL CHILE (134)

LCCH	0.70	58 iP		12 35.00	-1.6	
LNV	0.73	98 iPd		12 36.50	-0.4	
TACH	1.13	80 iPd		12 41.60	-1.0	
CHCH	1.35	94 iPd		12 46.40	0.7	
ROCH	1.37	51 iPd		12 45.50	-0.7	
SAN	1.40	74 iPd		12 46.00	-0.4	
		iS		13 04.00		
PCH	1.49	81 iPd		12 47.60	0.0	
PEL	1.51	62 iPd		12 38.10	-9.8X	
RTBS	3.23	48 e(P)		13 14.70	2.4	
RTCV	3.72	59 eP		13 20.80	1.4	
RTCB	3.76	52 iP		13 21.50	1.5	
ZON	3.81	54 eP		13 24.00	3.4X	
RTLL	4.08	53 ePd		13 24.60	0.2	

CCH 17.30 20 P 16 28.00 5.0X
 ZOBO 17.90 13 eP 16 03.00 -27.7X
 Z 18s 0.28um

				16 30.20		
			LR	22 16.00		
SIV	20.45	32 P		16 56.80	-2.3	
		i		16 59.80		
PPD	21.90	63 eP		17 11.80	-1.9	
VAO	24.68	71 eP		17 40.40	-0.5	
SOB1	37.85	57 eP		19 36.70	-0.3	
		e		19 39.50		
		e		19 46.40		
KIC	75.22	72 P		24 04.00	1.3	
LKO	76.50	69 P		24 11.64	1.7	
S.D. = 1.5 on 17 of 21 obs.						

? OCT 11, 1990 00h 34m 53.90 ± 1.96s
 41.879 N ± 16.9km 20.094 E ± 10.2km
 DEPTH = 5.0km (geophysicist)

ALBANIA (391)

LACI	0.38	230 ePg		35 01.40	-0.1	
TIR	0.56	198 ePg		35 05.20	0.1	
QHR	0.93	145 iPg		35 12.10	-0.1	
		iSg		35 26.10		
SKO	1.01	84 ePg		35 13.50	0.0	
		iSg		35 30.50		
S.D. = 0.2 on 4 of 4 obs.						

? OCT 11, 1990 00h 55m 04.06 ± 0.97s
 18.134 N ± 8.6km 99.945 W ± 12.3km
 DEPTH = 33.0km (normal)

GUERRERO, MEXICO (59)

III	0.51	62 iP		55 15.00	0.0	
		iS		55 25.00		
ACX	1.26	176 iP		55 25.50	0.0	
		iS		55 41.50		
PPM	1.56	53 (P)		55 16.00	-14.2X	
IIJ	1.60	7 iP		55 31.00	0.1	
		iS		55 44.50		
MRX	1.96	323 iP		55 35.50	-0.1	
		iS		55 58.50		
S.D. = 0.1 on 4 of 5 obs.						

OCT 11, 1990 01h 53m 41.61 ± 0.55s
 35.005 N ± 7.3km 119.456 W ± 6.2km
 DEPTH = 10.0km (geophysicist)

CENTRAL CALIFORNIA (39)
ML 3.1 (BRK).

ABL	0.25	129 iPc		53 47.50	0.5	
BCH	0.55	289 iPc		53 52.40	-0.3	
BLP	0.90	241 eP		53 58.60	-0.2	
PHAM	1.13	317 eP		54 04.00	1.2	
PRI	1.50	319 eP		54 09.30	0.6	
FRI	1.99	354 eP		54 15.00	-0.7	
		eS		54 41.00		
PEC	2.20	120 eP		54 18.00	0.1	
SAO	2.39	318 eP		54 20.60	-0.8	
PLM	2.71	127 eP		54 25.70	-0.5	
TNP	3.56	30 eP		54 46.00	7.8X	
S.D. = 0.8 on 9 of 10 obs.						

? OCT 11, 1990 02h 18m 59.94 ± 1.03s
 33.407 N ± 15.6km 132.173 E ± 19.6km
 DEPTH = 33.0km (normal)
 4.4mb (3 obs.)

SHIKOKU, JAPAN (236)

SHK	1.20	20 iPd		19 22.00	1.6	
	0.3s	1558.44nm				
MAT	5.86	56 iPc		20 25.70	-1.1	
	0.8s	11.19nm		4.5mb		
		eS		21 31.00		
BJI	14.43	302 eP		22 30.00	6.4X	
WB5	53.03	177 eP		28 16.70	0.7	
HFS	74.05	333 eP		30 33.00	-1.0	
	0.5s	2.20nm		4.4mb		
NB2	74.38	334 P		30 35.40	-0.5	
	0.8s	2.60nm		4.3mb		
TNP	84.02	48 P		31 29.00	0.3	
S.D. = 1.3 on 6 of 7 obs.						

* OCT 11, 1990 02h 58m 06.62s
 63.338 N 149.695 W
 DEPTH = 106.4km

CENTRAL ALASKA (1)

<AGS-P>.

HUR	0.36	176 iP		58 22.11	-0.4	
		eS		58 33.80		
RND	0.39	79 eP		58 22.39	-0.3	
MCK	0.52	40 eP		58 23.24	-0.3	
CUT	0.97	196 iP		58 27.12	-0.4	
NEA	1.27	12 eP		58 30.08	-0.8	
WRH	1.34	31 eP		58 30.88	-0.8	
CCB	1.56	32 eP		58 33.33	-0.9	
SKT	1.60	213 iP		58 34.04	-0.9	
		eS		58 55.57		
GHO	1.61	167 eP		58 35.03	0.0	
		eS		58 56.17		
HDA	1.62	47 eP		58 34.48	-0.6	
SML	1.66	157 iP		58 35.35	-0.3	
PWA	1.70	183 eP		58 36.36	0.4	
PLRM	1.77	171 eP		58 36.78	-0.2	
DDM	1.77	74 eP		58 37.13	0.0	
GLM	1.94	30 eP		58 38.49	-0.7	
SUA	1.94	195 eP		58 39.33	0.0	
TOA	2.04	126 eP		58 40.44	-0.1	
SDG	2.07	111 eP		58 40.65	-0.2	
PMS	2.10	178 eP		58 41.19	-0.1	
NCG	2.26	212 eP		58 42.60	-0.8	
CGLM	2.31	209 eP		58 42.86	-2.0	
SPU	2.43	208 eP		58 45.00	-0.6	
KLU	2.55	135 eP		58 45.99	-1.3	
VLZ	2.72	143 eP		58 47.53	-1.9	
GLI	2.75	152 eP		58 48.60	-1.3	
SEW	3.25	178 eP		58 53.74	-2.8	
GLB	3.34	122 eP		58 56.98	-0.9	
27 obs. associated						

* OCT 11, 1990 03h 14m 39.44 ± 0.86s
 21.185 N ± 7.6km 99.691 W ± 13.9km
 DEPTH = 10.0km (geophysicist)
 4.0mb (2 obs.)

CENTRAL MEXICO (523)

IIJ	1.44	182 iP		15 05.24	-0.8	
		iS		15 30.22		
UNM	1.90	165 iP		15 13.50	1.0	
		(S)		15 41.00		
MRX	2.04	224 iP		15 15.35	1.2	
		iS		15 44.50		
IIA	2.24	154 (P)		15 26.40	9.2X	
PPM	2.33	154 iP		15 18.31	-0.6	
		iS		15 50.00		
IIIT	2.51	149 (P)		15 07.05	-14.2X	
AGX	2.53	286 eP		15 19.21	-1.9	
		(S)		16 01.50		
III	2.80	176 iP		15 29.91	4.6X	
		(S)		16 11.06		
LVVM	3.36	115 (P)		15 42.51	9.4X	
ACX	4.30	182 (P)		15 59.50	13.1X	
OXX	4.95	145 (P)		16 13.00	17.2X	
MZX	6.56	289 (P)		16 40.00	21.7X	
ALO	14.94	338 eP		18 13.50	0.9	
	1.0s	3.75nm		3.8mb		
ANMO	14.95	338 eP		18 14.20	1.5	
TUL	15.06	12 eP		18 12.80	-1.2	
	1.0s	11.30nm		4.3mb		
		e		18 17.20		
S.D. = 1.5 on 8 of 15 obs.						

? OCT 11, 1990 03h

RTCB	4.44	52	ePd	54	30.00	0.3	BAO	28.20	56	Pc	31	15.20	-1.9	KRI	90.19	110	iPd	38	28.00	3.8X
ZON	4.48	54	e(P)	54	34.00	3.7X			e	31	25.90	40km		SES	90.50	336	eP	38	24.00	-0.6
RTLL	4.75	53	eP	54	34.10	0.0	SOB1	37.61	57	ePc	32	37.40	-1.4	PNT	92.78	331	eP	38	46.00	10.9X
CCH	17.88	21	P	57	37.50	6.4X			i	32	40.40	10kmX		BCAO	92.95	87	iPd	38	37.00	0.3
ZOBO	18.44	15	P	57	39.00	0.7			i	32	48.00				0.6s	10.00nm			5.4mb	
SIV	21.09	33	P	58	06.00	-1.0	CAI	42.13	58	eP	33	14.20	-2.0	EDM	93.65	337	eP	38	38.00	-1.1
S.D. = 0.9 on 11 of 15 obs.							CEOS	42.60	5	eP	33	19.00	-1.1	CLL	112.62	43	ePd	40	18.00	13.8X
% OCT 11, 1990 03h 54m 35.13±2.09s							OLLA	43.72	8	eP	33	28.00	-1.2	WB5	121.09	209	ePKP	44	15.20	-1.3
35.004 N ±24.0km							GUAC	43.84	7	iPd	33	30.00	-0.2	MAIO	140.56	72	ePKP	44	53.00	-0.1
DEPTH = 10.0km (geophysicist)							LLAV	44.17	7	iPd	33	32.00	-0.8	QUE	145.22	84	ePKP	45	01.00	0.3
CRETE (370)							SPA	56.52	180	iPc	35	05.30	-1.2		1.1s	632.91nm				
MD 3.7 (ATH).								1.0s	49.50nm			5.5mb	GBA	145.88	118	PKP	45	02.00	-0.7	
NPS	0.40	50	ePg	54	42.60	-0.8	PRM	68.07	351	P	36	22.20	-1.4	POO	146.09	108	iPKPd	45	03.70	0.6
VAM	0.94	296	ePg	54	52.00	-1.0			pP	36	31.30	29km			1.0s	66.00nm				
KAP	1.68	71	ePb	55	05.20	0.5	JSC	68.12	352	P	36	22.50	-1.4	HYB	149.11	114	ePKP	45	11.00	3.1X
APE	2.07	7	ePn	55	11.00	0.6			pP	36	31.50	29km	IPM	150.37	166	ePKPd	45	15.00	5.1X	
VLI	2.53	313	ePn	55	16.70	-0.2	TKL	69.82	350	P	36	32.70	-1.6		1.0s	47.10nm				
ARG	2.65	62	ePn	55	18.50	-0.1	GBTN	69.89	350	P	36	33.50	-1.2	SNG	152.80	164	ePKP	45	32.80	19.4X
ITM	3.45	310	ePn	55	31.00	1.1	NAV	71.07	353	P	36	40.40	-1.5	WMO	161.29	51	PKP	45	23.70	0.7
S.D. = 0.9 on 7 of 7 obs.									pP	36	49.80	30km		Z 18s	0.30um					
OCT 11, 1990 04h 25m 25.23±0.30s							ELC	72.36	346	P	36	48.20	-1.4			e	46	07.50		
33.656 S ± 6.3km							MEO	72.47	337	iPd	36	49.50	-0.8			pPKP	46	17.00		
DEPTH = 32.9km (11 depth phases)							SIO	72.66	340	eP	36	51.00	-0.4			PP	49	55.00		
5.2mb (14 obs.) 4.9Msz (2 obs.)							TUL	72.67	340	iP	36	51.00	-0.4	CHG	163.19	149	ePKP	45	26.00	0.4
OFF COAST OF CENTRAL CHILE (134)								0.9s	19.70nm			5.1mb	SHL	163.91	116	ePKP	45	26.00	-0.3	
Felt (IV) at San Antonio and							FVM	73.29	345	P	36	53.50	-1.5	BJI	170.81	316	ePKP	45	41.00	10.5X
(III) at Valparaiso and in the							ACO	74.41	338	e(P)	37	01.20	-0.4	GTA	171.32	46	PKPd	45	32.00	1.0
Santiago area.							TBR	74.45	358	P	37	02.00	0.3			e	46	52.20		
CENTROID, MOMENT TENSOR (HRV)							LIC	74.70	72	P	37	02.88	-0.9			pPKP	47	00.00		
Data Used: GDSN								1.3s	46.50nm			5.3mb	TIY	174.53	319	ePKP	45	33.00	0.8	
L.P.B.: 14S, 25C							Z 20s	0.44um				4.7Msz		Z 15s	0.40um					
Centroid Location:							TIC	74.96	71	P	37	04.40	-0.9	LZH	175.87	53	ePKP	45	32.50	-0.2
Origin Time 04:25:28.7 0.5							KIC	75.01	72	P	37	04.78	-0.7		Z 20s	0.30um				
Lat 34.17S 0.08 Lon 72.07W 0.10								0.8s	29.50nm			5.3mb			e	47	12.50			
Dep 15.0 FIX Half-duration 1.7							ALO	75.46	331	eP	37	07.70	-0.2			pPKP	47	20.50		
Moment Tensor; Scale 10 ¹⁷ Nm								0.9s	15.76nm			5.0mb	XAN	179.08	295	PKP	45	33.50	0.5	
Mrr=0.53 0.05 Mtt=-0.05 0.05							Z 19s	0.82um				5.0Msz	S.D. = 1.1 on 06 of 102 obs.							
Mff=-0.48 0.06 Mrt=-0.10 0.12								e	37	19.00	37km		* OCT 11, 1990 05h 28m 13.73±0.92s							
Mrf=-1.54 0.14 Mtf=0.14 0.05							ANMO	75.46	331	P	37	08.20	0.3	24.042 N ±11.5km 125.326 E ± 9.0km						
Principal Axes:								0.9s	11.03nm			4.9mb	DEPTH = 33.0km (normal)							
T Val=1.66 Plg=54 Azm= 99							WVLY	75.99	355	P	37	10.50	0.0	SOUTHWESTERN RYUKYU ISLANDS (246)						
N -0.07 6 1								pP	37	19.80	30km		TWC	3.22	281	ePd	29	04.40	1.2	
P -1.59 36 267							LKO	76.28	69	P	37	12.30	-0.4			eS	29	40.70		
Best Double Couple: Mo=1.6*10 ¹⁷								0.9s	69.00nm			5.7mb	TWD	3.41	271	ePc	29	06.10	0.2	
NP1: Strike=329 Dip=11 Slip= 58							GLA	77.58	324	eP	37	21.00	1.4			eS	29	43.70		
NP2: 182 81 96							RSNY	77.86	358	P	37	20.70	-0.1	TWF1	3.76	260	ePc	29	10.40	-0.4
LNV	0.64	118	iPd	25	37.10	-0.7		1.2s	29.15nm			5.2mb			eS	29	50.70			
TACH	0.96	90	iPd	25	42.50	0.1	BAR	78.19	323	eP	37	24.00	1.0	TWG	4.09	254	iPc	29	15.10	-0.5
SAN	1.21	81	iPd	25	47.00	1.1	PLM	78.83	323	eP	37	28.00	1.4			eS	29	58.70		
			iS	25	54.00		TPC	79.03	324	eP	37	29.00	1.5	MAT	16.68	39	(P)	32	07.00	0.4
			iS	25	58.00		GLD	79.21	335	P	37	29.20	0.6	BJI	17.72	336	eP	32	18.50	-1.0
CHCH	1.23	103	iPd	25	46.80	0.6		1.1s	38.57nm			5.3mb		Z 24s	0.32um					
PEL	1.28	67	iPd	25	48.80	1.8	GOL	79.22	334	P	37	28.30	-0.4	WB5	44.54	168	eP	36	24.20	-0.1
PCH	1.31	89	iPd	25	48.50	1.0		0.8s	6.32nm			4.7mb	S.D. = 0.9 on 7 of 7 obs.							
FCH	1.54	78	iPd	25	52.30	1.3	RVR	79.60	323	eP	37	33.00	2.5	* OCT 11, 1990 06h 51m 31.70s						
MDZ	2.82	75	iPc	26	12.40	3.4X	FRS	79.70	119	eP	37	31.50	0.2	41.933 N 70.573 W						
			i	26	26.60		PAS	80.12	323	eP	37	44.00	10.7X	DEPTH = 13.0km						
			iS	26	57.40		MWC	80.12	323	eP	37	35.00	1.4	SOUTHERN NEW ENGLAND (476)						
RTCV	3.49	60	eP	26	22.00	3.5X	CBM	80.30	3	P	37	43.20	9.3X	<WES>P>. CL 2.7 (WES). Felt (V)						
RTCB	3.52	53	iPc	26	21.70	2.7	GSC	80.36	324	eP	37	36.00	1.3	at Plymouth; (IV) at West						
ZON	3.56	55	eP	26	23.00	3.4X	SBB	80.37	323	eP	37	35.00	0.2	Dennis; (III) at Duxbury and						
			eS	26	58.00		ABL	81.21	322	P	37	40.50	1.2	Monamet; (II) at Hanson and						
RTLL	3.84	54	ePd	26	25.00	1.5			pP	37	49.50	29km	Pocasset, Massachusetts. Also							
ANT	10.02	9	eP	27	43.50	-6.5X	SYN	81.34	322	eP	37	41.00	1.1	felt at Sandwich and Woods Hole,						
CCH	17.06	20	P	29	24.00	0.8	ISA	81.47	323	eP	37	43.00	2.5	Massachusetts.						
			i	29	29.50		DAU	82.09	331	P	37	44.00	0.0	FLR	0.46	242	P	51	39.82	-1.3
ARE	17.13	2	eP	29	25.00	0.9	DUG	82.55	330	P	37	46.40	0.3			S	51	46.68		
ZOBO	17.68	13	Pc	29	30.80	-0.4	RSSD	82.70	337	P	37	46.80	-0.1	WES	0.72	309	P	51	45.50	0.0
	Z 20s	4.29um							pP	37	57.50	34km			S	51	55.32			
		S	33	29.00			TNP	82.79	326	P	37	47.80	0.3	NSC	1.06	245	P	51	50.58	-0.8
		LR	35	08.00				1.2s	26.88nm			5.2mb	QUA	1.44	292	P	51	56.90	-0.5	
SIV	20.20	32	iPc	29	57.60	-2.5	PRI	82.95	322	eP	38	01.30	13.1X	MD2	1.45	255	P	51	57.46	-0.1
VAO	24.47	71	eP	30	41.70	-0.8	BW06	83.45	333	P	37	50.00	-0.8	MD3	1.48	254	eP	51	57.40	-0.6
			i	30	52.20	39km		1.3s	9.56nm			4.8mb	BNH	2.70	350	eP	52	15.80	0.2	
			i	31	04.30		LLA	83.46	322	eP	38	03.00	12.3X	TBR	2.85	255	eP	52	17.70	0.0
			e	31	08.40		SLR	84.10	117	iPd	37	52.60	-1.9	HBVT	3.04	324	eP	52	19.00	-1.3
BMA	26.86	73	eP	31	04.20	-0.6	CMB	84.28	324	P	37	55.40	0.6	9 obs. associated						
			e	31	07.60	12kmX		1.5s	26.94nm			5.2mb	OCT 11, 1990 07h 26m 24.67±0.85s							
			e	31	11.50		GCC	84.31	322	ePd	38	07.50	12.6X	43.973 N ± 5.0km 8.500 E ± 6.3km						
JFO	28.01	72	eP	31	14.70	-0.6	ORV	86.00	324	ePd	38	04.90	1.5	DEPTH = 10.0km (geophysicist)						
			e	31	24.70	36km	LRM	87.13	333	eP	38	09.70	0.7	CORSCA (380)						
			e	31	47.30		WDC	87.30	324	ePd	38	09.50	-0.2							
			e	31	14.70	-0.6	BUL	87.52	112	iPd	38	11.80	0.3							
			e	31	24.70	36km	LBFM	87.57	325	P	38	11.40	0.2							
			e	31	47.30		CIR	89.28	115	iPd	38	21.00	1.3							

11d 07h

ML 2.4 (LDG). MD 2.1 (STR).

FIN	0.32	318	P	26	31.27	0.0
			S	26	34.86	
IMI	0.45	262	P	26	33.01	-0.8
			S	26	38.45	
ROB	0.56	306	P	26	35.17	-0.8
			S	26	41.52	
PCP	0.57	3	P	26	36.91	0.7
			S	26	44.70	
AUTN	0.77	272	Pg	26	39.49	-0.4
			Sg	26	50.11	
SBF	0.78	262	Pg	26	40.40	0.5
			Sg	26	50.00	
ENR	0.82	288	P	26	39.94	-0.6
			S	26	50.40	
AURF	0.85	265	Pg	26	40.90	-0.3
			Sg	26	52.51	
STV	0.89	288	P	26	41.63	-0.2
			S	26	52.70	
TOUF	0.90	273	Pg	26	41.91	-0.2
			Sg	26	55.13	
MVIF	0.98	266	Pg	26	43.89	0.6
			Sg	26	55.93	
PZZ	1.14	298	P	26	45.73	-0.3
			S	26	59.37	
CALN	1.19	260	Pg	26	47.33	0.4
FRF	1.40	254	Pg	26	51.00	0.7
			Sg	27	06.40	
PGF	1.47	165	Pn	26	50.32	-1.0
LMR	1.58	247	Pg	26	52.80	0.0
			Sg	27	10.40	
LRG	1.64	252	Pg	26	55.00	1.4
			Sg	27	14.40	

S.D. = 0.7 on 17 of 17 obs.

% OCT 11, 1990 08h 11m 47.50 ± 1.22s
40.679 N ± 9.1km 29.910 E ± 8.7km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.4 (ISK).

HRT	0.23	308	ePg	11	52.40	-0.1
			eSg	11	56.90	
YLV	0.42	255	iPg	11	55.90	-0.3
IZI	0.48	224	iPg	11	57.40	0.2
			iSg	12	05.40	
GPA	0.49	142	ePg	11	57.50	0.0
CTT	1.22	293	ePn	12	10.40	0.3

S.D. = 0.3 on 5 of 5 obs.

% OCT 11, 1990 08h 27m 44.19 ± 0.86s
39.237 N ± 7.6km 27.741 E ± 12.4km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.6 (ISK).

DST	0.78	62	iPg	27	59.10	-0.3
			eSg	28	12.00	
IZM	0.92	204	ePn	28	01.80	0.0
EDC	1.11	5	ePn	28	04.90	-0.2
KCT	1.12	25	iPn	28	05.90	0.0
BNT	1.13	7	ePn	28	04.90	-0.4
YLV	1.83	43	ePn	28	16.00	0.0

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

% OCT 11, 1990 09h 35m 17.46 ± 1.71s
32.439 S ± 7.9km 71.714 W ± 18.6km
DEPTH = 33.0km (normal)

NEAR COAST OF CENTRAL CHILE (135)

Felt (III) in central Chile.

PEL	1.12	129	iPc	35	35.80	-1.1
SAN	1.34	139	iP	35	39.20	-0.9
			iS	35	51.50	
TACH	1.38	152	iP	35	40.50	-0.1
LVN	1.53	171	iPd	35	45.00	2.2
			iS	36	03.50	
PCH	1.55	140	iPc	35	41.90	-1.3
CHCH	1.74	149	iPd	35	45.80	0.0
RTBS	2.07	69	ePd	35	52.90	2.4
MDZ	2.46	101	eP	35	55.80	-0.4
			i(S)	36	23.60	
ZON	2.73	72	eP	36	04.00	4.1X
RTCV	2.76	79	ePc	36	01.00	0.7
RTLL	2.97	69	iPc	36	04.00	0.5
ZOBO	16.42	12	P	39	08.00	0.3

SIV 19.01 33 P 39 36.80 -2.5
S.D. = 1.5 on 12 of 13 obs.

% OCT 11, 1990 10h 03m 52.49 ± 0.55s
41.132 N ± 5.5km 28.491 E ± 4.0km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.7 (ISK).

CTT	0.05	288	iPg	03	54.30	-0.4
ISK	0.43	99	ePg	04	01.30	0.0
			eSg	04	07.30	
GBZT	0.80	115	ePg	04	07.80	-0.2
			iSg	04	22.00	
YLV	0.88	130	iPg	04	08.80	-0.6
			iSg	04	22.30	
DMK	0.88	322	iPg	04	09.60	0.2
			iSg	04	21.60	
BNT	0.89	209	ePg	04	09.80	0.3
KCT	0.89	187	iPg	04	09.80	0.3
EDC	0.92	212	iPg	04	09.90	-0.1
HRT	0.94	109	ePg	04	11.30	0.8
			eSg	04	25.30	
IZI	1.09	136	ePn	04	12.80	-0.2

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

? OCT 11, 1990 10h 13m 00.60 ± 0.68s
54.870 N ± 12.6km 109.634 E ± 24.1km
DEPTH = 33.0km (normal)

LAKE BAIKAL REGION (327)

BJI	15.47	161	eP	16	38.00	0.2
			eS	19	44.00	
LZH	19.21	194	eP	17	31.50	7.0X
	2.0s	32.00nm			4.2mb	
Z	10s	0.80um				
		sP	17	44.00		
		Lg	23	20.50		
		Lg	23	49.50		
SSE	25.15	156	eP	18	17.00	-7.0X
	Z	12s	0.50um		4.2MszX	
	E	10s	0.30um			
		pP	18	24.00	25kmX	
		S	22	56.00		
HFS	47.43	317	eP	21	42.20	8.9X
	0.5s	2.60nm			4.5mb	
NB2	47.81	319	P	21	45.20	8.9X
	0.8s	5.40nm			4.6mb	
BRG	53.49	308	e(P)	22	19.40	-0.1
SES	69.73	26	ePc	24	09.00	0.2
WB5	77.39	156	eP	24	53.00	-0.6
TNP	79.09	36	P	25	03.00	-0.1
SPA	144.69	180	iPKPd	32	34.40	0.4
	1.0s	9.50nm				
		i	32	37.60		

S.D. = 0.5 on 6 of 10 obs.

? OCT 11, 1990 11h 14m 38.90 ± 0.98s
39.129 N ± 8.9km 27.650 E ± 16.0km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.5 (ISK).

IZM	0.79	203	ePn	14	54.30	0.0
DST	0.90	58	iPn	14	56.10	0.0
EDC	1.23	8	ePn	15	01.90	0.2
BNT	1.24	10	ePn	15	01.80	-0.2
IZI	1.85	49	ePn	15	15.00	4.0X

S.D. = 0.3 on 4 of 5 obs.

? OCT 11, 1990 12h 19m 02.24 ± 0.95s
39.124 N ± 8.1km 27.610 E ± 9.5km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.5 (ISK).

IZM	0.77	201	ePg	19	17.30	-0.1
			iSg	19	29.80	
DST	0.92	58	iPn	19	20.10	0.2
EZN	1.22	306	ePn	19	25.00	0.1
BNT	1.25	11	ePn	19	25.30	-0.2

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

OCT 11, 1990 13h 57m 05.10 ± 0.51s
32.838 N ± 3.0km 48.212 E ± 2.1km
DEPTH = 45.9 ± 5.1km

5.3mb (70 obs.) 4.7Msz (4 obs.)
WESTERN IRAN (347)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 15S, 22C

Centroid Location:

Origin Time 13:57: 3.5 0.0

Lot 32.41N 0.10 Lon 47.89E 0.09

Dep 15.0 BDY Half-duration 1.5

Moment Tensor: Scale 10¹⁶ Nm

Mrr= 3.56 0.32 Mtt=-2.21 0.50

Mff=-1.35 0.35 Mrt= 0.00 0.00

Mrf= 0.00 0.00 Mtf= 1.71 0.33

Principal Axes:

T Val= 3.56 P1g=90 Azm=180

N -0.01 0 128

P -3.55 0 36

Best Double Couple: Mo=3.5*10¹⁶

NP1: Strike=128 Dip=45 Slip= 90

NP2: 308 45 90

KER	1.77	329	iPc	57	35.20	1.3
TEH	3.91	41	ePc	58	04.50	0.2
TAB	5.44	344	eP	58	26.00	0.1
DHR	6.72	165	eP	58	43.10	-0.7
			eS	00	56.00	
BBU	6.88	163	ePn	58	40.70	-5.3X
			eSn	59	55.90	
BRF	7.05	162	ePn	58	42.30	-6.0X
QASM	7.86	212	iPd	58	54.70	-5.0X
RYD	8.21	190	ePc	59	02.70	-1.8
			eS	01	46.00	
AFIF	9.76	208	eP	59	25.40	-0.6
MAIO	9.92	67	eP	59	27.00	-1.1
	0.8s	9.52nm			5.0mb	
HRI	10.48	276	eP	59	40.50	4.8X
ZNT	11.14	270	eP	59	44.80	0.1
BGIO	11.17	268	eP	59	45.40	0.4
AYN	11.21	253	eP	59	42.00	-3.6X
HQL	11.83	256	eP	59	51.00	-2.9
BADA	12.16	253	eP	59	55.00	-3.2X
CSS	12.55	284	eP	00	05.20	1.7
B8TK	14.27	304	eP	00	27.00	0.7
KAS	14.32	311	eP	00	27.50	0.7
HLW	14.72	263	eP	00	32.00	0.0
			eS	03	17.00	
BCK	15.13	293	eP	00	37.00	-0.5
ABHA	15.33	200	ePd	00	42.70	2.3
KMTA	15.38	200	eP	00	40.10	-0.8
SRAT	15.42	198	eP	00	41.30	-0.2
ALT	15.91	298	iP	00	47.90	0.5
AMAN	16.09	240	eP	00	51.50	1.8
KHL	16.15	295	eP	00	50.20	-0.3
QUE	16.20	94	eP	00	51.60	0.3
			e	04	03.60	
			e	13	03.30	
AKSR	16.21	239	eP	00	52.00	0.8
ANMR	16.53	240	eP	00	56.00	0.7
HRT	16.83	304	eP	00	59.00	0.0
YLV	16.94	302	iP	01	02.20	1.8
GBZT	16.97	303	eP	01	00.00	-0.7
DST	17.17	299	iP	01	04.00	0.8
CTT	17.82	303	eP	01	08.70	-2.6
IZM	17.90	294	eP	01	10.00	-2.3
NPS	18.88	284	ePn	01	24.00	-0.3
EZN	18.94	298	eP	01	23.00	-1.9
PSN	19.05	310	iPd	01	27.00	0.8
CFR	19.81	314	ePc	01	33.50	-1.0
RDO	19.88	301	ePn	01	35.00	-0.2
VAM	20.03	284	ePn	01	36.60	-0.3
KDZ	20.12	302	iPc	01	38.00	0.2
DIM	20.17	304	iPc	01	38.00	-0.3
RZN	20.63	302	iPc	01	43.00	-0.3
PVL	20.73	307	iPc	01	45.00	1.0
VRI	21.02	314	ePc	01	46.50	-0.5
CLI	21.05	317	ePd	01	49.00	1.6
VLI	21.10	288	ePn	01	46.00	-1.9
NEO	21.17	295	ePn	01	48.20	-0.4
PLG	21.21	298	ePn	01	48.40	-0.6
IAS	21.26	318	eP	01	50.00	0.7
PGB	21.29	304	iPc	01	50.00	0.2
MLR	21.31	313	ePc	01	50.00	-0.1
MMB	21.31	301	iPc	01	50.00	0.0
CMP	21.77	311	iPc	01	57.00	2.4
KKB	21.05	302	iPc	01	55.00	-0.4
DRA	22.02	309	ePd	01	59.00	2.0
COZ	22.24	311	eP	02	00.50	1.1

TNR	22.43	312	ePd	02	02.00	0.9
SKO	23.06	301	iPd	02	07.70	0.4
	1.1s	249.00nm				5.6mb
Z	14s	1.11um				4.5mszx
N	14s	1.03um				
E	14s	1.05um				
		i	02	09.70		
		iS	06	18.00		
		i	06	31.00		
		e	06	40.00		
		LR	12	39.00		
LSK	23.31	296	iPc	02	10.20	0.4
KSH	23.32	66	iPc	02	13.00	3.0X
	N 13s	3.90um				
OHR	23.34	299	iPc	02	10.10	0.1
	1.2s	71.00nm				5.0mb
		i	02	12.40		
SRN	23.72	295	iP	02	13.70	0.1
KKS	23.83	301	eP	02	16.00	1.3
BMR	23.85	316	ePd	02	18.00	3.2X
BERA	23.89	297	eP	02	15.60	0.3
TIR	24.07	299	eP	02	19.00	1.9
BZS	24.11	310	eP	02	07.50	-9.9X
LACI	24.25	299	P	02	19.90	1.2
IVA	24.40	302	eP	02	21.50	1.2
SDA	24.48	300	eP	02	21.30	0.3
BEO	24.59	307	iP	02	22.50	0.5
ULC	24.65	300	eP	02	22.90	0.2
TTG	24.75	301	eP	02	24.00	0.5
PLE	24.87	303	eP	02	26.50	1.6
BDV	25.03	301	eP	02	26.30	0.0
NDI	25.23	92	iPc	02	28.80	0.5
HCY	25.30	301	eP	02	28.50	-0.3
LCI	25.34	296	P	02	27.00	-2.2
BRY	25.37	302	eP	02	29.60	0.0
PSZ	26.12	314	iP	02	37.00	1.3
ROI	26.31	294	P	02	43.10	4.8X
GRI	26.37	292	P	02	40.04	1.2
	1.0s	271.80nm				5.8mb
SPC	26.48	316	iP	02	39.80	-0.1
BUD	26.48	312	iPc	02	40.50	0.8
TDS	26.50	294	P	02	41.50	1.6
CSI	26.54	294	P	02	41.20	0.8
CZI	26.62	293	P	02	42.10	1.1
HVAR	26.93	302	iPc	02	42.40	-1.4
MSI	27.03	291	P	02	47.00	2.2
POO	27.05	115	iPc	02	50.50	5.3X
SRO	27.05	312	iP	02	45.80	0.9
KRA	27.06	318	iPc	02	44.50	-0.5
	0.9s	113.00nm				5.5mb
Z	16s	1.10um				4.5mszx
		i	02	48.00		
MGR	27.14	295	Pd	02	46.50	0.7
SGO	27.37	296	P	02	48.90	1.1
BSS	27.77	296	P	02	52.10	0.6
ZAG	27.89	307	iP	02	53.50	0.9
PTJ	27.94	307	iPc	02	53.20	0.1
ZST	27.95	312	eP	02	52.80	-0.3
		e	04	08.10		
SOP	28.11	311	iPc	02	55.30	0.8
DUI	28.13	298	P	02	55.70	0.8
VBY	28.30	306	e(P)	03	00.00	3.7X
RFI	28.44	297	P	02	58.29	0.8
	1.8s	2531.10nm				6.6mbx
VKA	28.46	312	iPd	02	58.00	0.3
SDI	28.61	298	P	02	59.20	0.0
CEY	28.92	306	ePc	03	02.50	0.6
AZI	28.93	298	Pd	03	03.10	1.2
LJU	28.93	307	eP	03	02.50	0.6
VOY	29.36	307	ePc	03	05.80	-0.1
TRI	29.37	306	eP	03	05.40	-0.4
ARV	29.50	301	P	03	07.50	

			e	05	04.00	
CTI	30.88	306	P	03	18.50	-0.9
WET	30.90	312	iPc	03	18.50	-1.0
MME	31.21	302	P	03	23.50	1.0
WATA	31.23	308	iPc	03	21.60	-0.9
BDI	31.27	302	P	03	22.60	-0.1
PII	31.27	301	P	03	22.50	-0.2
HYB	31.33	112	eP	03	23.50	0.0
	1.0s		50.00nm			5.2mb
SQTA	31.44	308	iPc	03	23.60	-0.7
	1.5s		60.10nm			5.2mb
			i	03	27.10	
			e	06	17.00	
			i	08	30.10	
			i	08	30.00	
OGA	31.48	307	eP	03	24.70	-0.1
	1.3s		52.00nm			5.2mb
SAL	31.57	305	P	03	26.00	0.8
CLL	31.58	316	iPc	03	24.70	-0.6
	1.3s		50.00nm			5.2mb
FUR	31.64	310	iPc	03	25.50	-0.4
	1.0s		131.00nm			5.7mb
NUR	31.70	338	iP	03	25.80	-0.4
	0.7s		53.40nm			5.5mb
OSS	32.04	307	ePc	03	29.70	0.1
GRF	32.10	313	iPc	03	30.00	0.0
	1.3s		129.00nm			5.6mb
Z	21s		0.20um			3.8Mszx
			ec	03	31.80	
MDI	32.16	305	P	03	30.50	0.1
BOB	32.18	303	Pd	03	31.70	0.9
BSD	32.22	324	iPd	03	29.10	-1.7
	0.7s		70.40nm			5.6mb
PGF	32.26	299	iPc	03	31.50	0.0
	1.1s		80.60nm			5.5mb
VDL	32.45	306	ePc	03	33.00	-0.3
WMQ	32.57	59	iPc	03	35.00	0.8
	1.2s		40.00nm			5.1mb
Z	24s		0.60um			4.2Mszx
			eS	08	48.00	
SAX	32.69	308	ePc	03	34.70	-0.7
PCP	32.79	303	P	03	35.00	-1.0
TMA	32.79	305	ePc	03	35.20	-1.0
GBA	32.81	119	P	03	36.80	0.5
VAI	32.82	305	P	03	35.50	-0.7
LLS	32.84	307	ePc	03	35.80	-0.9
CKI	32.96	302	Pd	03	36.80	-0.7
FIN	32.99	302	P	03	36.13	-1.6
SUF	33.02	341	iP	03	37.60	-0.1
	0.8s		55.00nm			5.5mb
IMI	33.19	301	P	03	38.49	-1.0
ROB	33.24	302	P	03	38.80	-1.2
ORX	33.33	304	P	03	42.49	1.7
SLE	33.36	308	ePc	03	40.20	-0.7
ZLA	33.37	308	ePc	03	40.60	-0.5
MMK	33.41	305	ePc	03	41.10	-0.5
SBF	33.51	301	iPc	03	42.30	0.0
	1.0s		108.00nm			5.7mb
ENR	33.56	302	P	03	41.98	-0.8
STV	33.63	302	P	03	41.26	-2.1
DOI	33.71	302	P	03	42.50	-1.6
UPP	33.73	332	iP	03	43.10	-0.8
RSP	33.77	303	P	03	42.49	-2.2
DIX	33.79	305	ePc	03	44.40	-0.6
PZZ	33.81	302	P	03	43.21	-1.8
LSD	33.88	304	P	03	45.67	-0.1
TNS	33.97	313	ePc	03	46.20	0.0
RRL	34.08	303	P	03	46.80	-0.6
EMS	34.12	305	ePc	03	47.30	-0.4
LPG	34.17	304	iPc	03	47.70	-0.6
	1.0s		78.15nm			5.6mb
BNI	34.17	303	P	03	47.60	-0.5
LPL	34.19	304	iPc	03	47.70	-0.6
CDF	34.29	309				

ENN	35.67	313	ePd	04	01.50	0.9
	1.0s		50.00nm			5.4mb
WIT	35.77	316	eP	04	03.00	1.6
LBF	36.26	306	iPc	04	04.90	-0.8
	1.3s		39.70nm			5.2mb
SMF	36.32	306	iPc	04	05.70	-0.5
DOU	36.35	311	P	04	06.40	0.0
LOR	36.38	307	iPc	04	05.60	-1.1
	1.0s		32.00nm			5.2mb
Z	20s		0.22um			3.9Mszx
PLDF	36.40	304	P	04	06.20	-0.8
SSF	36.59	306	iPc	04	07.80	-0.6
	1.2s		86.30nm			5.5mb
L8L	36.60	303	P	04	08.29	-0.2
LSA	36.65	83	Pc	04	10.20	0.5
AVF	36.66	306	iPc	04	08.40	-0.7
	1.2s		80.35nm			5.5mb
AGO	36.75	304	P	04	09.34	-0.5
PYM	36.81	304	P	04	09.57	-0.8
SOD	36.81	346	iP	04	10.20	0.2
GRC	36.91	307	P	04	10.92	-0.2
BGF	36.99	305	eP	04	11.20	-0.6
	1.0s		29.00nm			5.1mb
NB2	36.99	331	P	04	10.80	-0.9
	1.1s		41.00nm			5.3mb
MAF	37.15	305	eP	04	13.00	-0.2
	1.2s		56.55nm			5.4mb
TCF	37.40	305	iPc	04	15.10	-0.2
	1.2s		50.60nm			5.3mb
CAF	37.42	303	eP	04	15.20	-0.3
	1.0s		20.00nm			5.0mb
RJF	37.83	303	eP	04	18.80	-0.1
	1.0s		22.00nm			5.0mb
Z	20s		0.17um			3.9Mszx
LSF	37.87	305	eP	04	18.50	-0.7
	1.3s		25.25nm			5.0mb
LPO	38.04	302	eP	04	20.30	-0.3
	1.0s		10.00nm			4.7mb
LFF	38.36	303	eP	04	23.10	-0.3
	1.0s		24.00nm			5.0mb
RGS	38.39	333	eP	04	23.20	-0.1
SHL	38.59	89	iP	04	24.90	-0.8
			iS		10.20.00	
KEV	38.82	348	eP	04	27.00	0.2
MFF	39.05	305	iPc	04	28.30	-0.8
	1.0s		32.00nm			5.1mb
LDF	39.18	308	iPc	04	29.20	-0.9
	1.0s		20.00nm			4.9mb
FLN	39.43	309	iPc	04	31.40	-0.8
	1.0s		42.00nm			5.2mb
Z	20s		0.20um			3.9Mszx
BCAO	39.58	231	iPc	04	33.50	-0.3
	0.5s		33.00nm			5.4mb
			ic		07.26.00	
			iS		10.44.00	
			ic		14.16.00	
			ed		16.25.50	
GRR	39.65	308	iPc	04	33.10	-0.9
	1.1s		90.35nm			5.5mb
LPF	39.75	307	iPc	04	33.80	-1.0
	1.1s		65.95nm			5.4mb
ECHE	39.84	294	eP	04	38.00	2.2
EVIA	41.15	293	eP	04	48.00	1.4
ENIJ	41.18	290	eP	04	47.20	0.5
GTA	41.73	66	iPc	04	52.70	1.3
	1.4s		100.00nm			5.4mb
Z	18s		0.90um			4.7Msz
E	13s		0.50um			
			sP		04.59.00	
			PP		06.34.40	
EKA	41.99	318	Pd	04	53.10	-0.1
	1.3s		57.90nm			5.1mb
GUD	42.16	296	iPc	04	55.60	0.7

11d 14h

	2.0s	220.00nm	5.7mb	
Z	22s	1.50um	4.9msz	
		PcP	06 57.00	
		ePP	07 12.00	
		eS	12 06.00	
AVE	46.13	287 eP	05 19.00	-7.8X
CD2	46.75	77 P	05 31.70	0.0
CHG	47.33	94 iPc	05 36.00	-0.5
	1.0s	27.50nm		5.2mb
KMI	47.88	84 Pc	05 40.00	-0.9
	1.8s	180.00nm		5.8mb
		PcP	07 09.50	
		eS	12 38.00	
BDT	48.12	96 eP	05 43.00	1.2
BTO	49.25	62 P	05 52.00	0.8
	N 13s	0.40um		
	E 16s	0.50um		
		eSP	06 00.00	
XAN	50.01	71 Pc	05 56.50	-0.5
HHC	50.35	62 Pd	06 00.00	1.0
GYA	50.65	81 iPc	06 01.20	-0.9
		S	13 16.00	
NNT	51.08	101 eP	06 01.70	-3.5X
TIY	51.75	65 iPd	06 10.60	0.4
	Z 24s	1.00um		4.8msz
	N 22s	1.30um		
		S	13 34.50	
KRI	52.49	203 iPd	06 20.00	4.0X
DAG	53.06	345 iPd	06 18.90	-0.5
	0.9s	0.62nm		5.6mb
BJI	53.96	62 eP	06 26.00	-0.4
	1.0s	24.00nm		5.2mb
	Z 23s	0.62um		4.6msz
		PcP	07 31.00	
LKO	54.60	258 Pc	06 31.12	-0.4
	0.8s	26.00nm		5.3mb
SNG	54.79	106 eP	06 31.60	-1.2
WHN	55.48	73 Pd	06 38.00	0.4
	1.2s	40.00nm		5.3mb
		sP	06 49.50	
KIC	55.70	254 P	06 38.94	-0.5
	0.9s	16.50nm		5.1mb
TIC	55.76	254 P	06 39.20	-0.7
TIA	55.78	66 P	06 39.80	0.1
CIR	55.86	199 iPd	06 43.90	3.5X
BUL	55.91	202 iPd	06 42.90	1.9
LIC	56.01	254 P	06 41.12	-0.5
	0.7s	14.00nm		5.1mb
	Z 20s	0.40um		4.5msz
OIZ	56.40	88 P	06 44.00	-0.5
IPM	56.63	108 ePd	06 46.00	-0.1
	1.1s	40.90nm		5.4mb
NJ2	58.54	70 Pc	06 59.00	-0.2
	1.0s	50.00nm		5.6mb
SNY	58.83	58 eP	07 00.90	-0.2
CN2	59.54	55 Pc	07 05.40	-0.6
	1.0s	20.00nm		5.2mb
	Z 16s	0.60um		4.8msz
	N 12s	0.30um		
	E 12s	0.30um		
		eS	15 14.00	
SSE	60.74	70 Pc	07 12.50	-1.9
	1.6s	80.00nm		5.6mb
	Z 18s	0.60um		4.8msz
SLR	61.26	201 iPc	07 19.00	0.9
	1.4s	53.49nm		5.5mb
MBC	70.90	357 ePc	08 19.00	0.2
	1.0s	54.00nm		5.5mb
MAT	71.34	58 (P)	08 21.00	-1.2
FRB	71.65	335 eP	08 24.00	0.5
	0.9s	73.00nm		5.6mb
INK	79.16	1 eP	09 06.00	0.0
ANM	79.40	14 e(P)	09 07.60	0.1
IMA	79.98	9 ePc	09 11.50	0.8
	1.2s	49.10nm		5.3mb
FBA	81.78	7 eP	09 21.10	1.1
TTA	82.61	11 eP	09 25.50	1.0
YKA	84.00	352 eP	09 31.40	-0.1
	1.1s	19.70nm		5.1mb
TOA	84.68	7 eP	09 36.80	1.8
PMR	84.86	8 eP	09 36.70	1.0
	1.4s	76.80nm		5.6mb
MBL	86.90	117 eP	09 47.00	0.5
MEKA	89.24	123 eP	09 57.90	0.3
SES	95.12	347 eP	10 25.00	0.4
WB5	97.43	109 eP	10 35.00	-0.3
TNP	108.15	348 Pdiff	11 30.00	6.8X

ZOBO 120.60 270 PKP 15 55.00 0.4
 SPA 122.66 180 iPKPd 15 52.20 -4.3X
 1.7s 39.06nm
 S.D. = 0.9 on 260 of 279 obs.

* OCT 11, 1990 14h 00m 58.53± 1.73s
 38.179 N ±24.1km 26.236 E ±12.7km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)

DST	2.35	52 iPn	01 37.00	-0.8
EDC	2.51	30 ePn	01 40.90	0.9
ITM	3.56	255 ePn	01 55.00	0.0
KZN	4.07	303 ePn	02 01.50	-0.7
VLS	4.45	272 ePn	02 08.00	0.4
SRN	5.14	291 iPn	02 23.30	5.9X
KEK	5.25	289 ePn	02 15.50	-3.4X

S.D. = 1.0 on 5 of 7 obs.

OCT 11, 1990 14h 42m 02.38± 0.63s
 21.232 N ± 8.8km 92.433 E ± 7.2km
 DEPTH = 33.0km (normal)
 4.0mb (4 obs.)
 BURMA-BANGLADESH BORDER REGION (295)

SHL	4.34	353 eP	43 09.50	1.5
		iS	43 50.00	
CHG	6.58	110 iPd	43 39.00	-0.4
	0.9s	13.24nm		4.7mb
BDT	7.37	121 eP	43 52.00	1.6
LSA	8.51	352 P	44 07.00	0.3
HYB	13.64	256 eP	45 13.50	-2.5
CD2	14.01	44 P	45 27.50	6.8X
GYA	14.02	65 P	45 27.60	6.6X
GBA	16.19	244 P	45 55.00	5.9X
	0.3s	1.60nm		3.6mb
POO	17.68	265 eP	46 07.50	-0.4
LZH	17.85	32 eP	46 10.50	0.6
	1.5s	14.00nm		3.9mb
		pP	46 20.50	
		sP	46 26.50	
KOD	18.07	235 iPd	46 15.00	2.0
GTA	19.19	18 eP	46 33.60	7.3X
XAN	19.36	45 P	46 26.00	-2.3
WHN	21.76	60 eP	46 53.00	-0.1
WMO	22.87	351 eP	47 05.20	1.1
TIY	23.86	42 eP	47 13.20	-0.5
NJ2	25.89	60 Pc	47 33.00	-0.1
TIA	26.20	50 eP	47 35.50	-0.4
SSE	27.54	63 eP	47 47.50	-0.7
BJI	27.58	42 eP	47 48.50	0.0
	1.0s	6.00nm		4.2mb

S.D. = 1.3 on 16 of 20 obs.

? OCT 11, 1990 14h 57m 36.32± 1.52s
 20.709 S ±63.2km 173.317 W ±29.6km
 DEPTH = 33.0km (normal)
 4.4mb (2 obs.)
 TONGA ISLANDS (173)

DZM	18.90	262 iPc	01 59.00	2.2
ASPA	48.74	256 iPd	06 19.60	-0.5
	1.6s	6.00nm		4.4mb
WB5	48.89	261 eP	06 20.10	-1.2
MTN	53.55	269 eP	06 55.10	-1.5
MBL	61.99	256 eP	07 55.20	-0.7
NANU	65.57	254 eP	08 20.20	0.9
ALO	84.16	49 eP	10 06.50	0.6
	1.1s	3.80nm		4.5mb
ANMO	84.16	49 P	10 06.50	0.6
FBA	87.57	11 P	10 21.20	-0.6
CHTO	94.46	288 P	10 55.00	0.2
SLB	115.35	84 ePKP	16 30.02	12.8X
CLL	149.06	352 iPKPd	17 23.60	5.4X
BRG	149.36	351 ePKP	17 24.40	5.7X
PRU	150.12	350 ePKP	17 26.50	6.7X
KHC	151.11	351 ePKP	17 28.50	7.1X

S.D. = 1.3 on 10 of 15 obs.

OCT 11, 1990 15h 14m 45.05± 0.09s
 18.726 N ± 1.8km 69.376 W ± 1.7km
 DEPTH = 100.8km (18 depth phases)
 5.4mb (78 obs.)
 DOMINICAN REPUBLIC REGION (88)
 MD 5.2 (TRN). Felt strongly in
 eastern Dominican Republic. Also
 felt throughout Puerto Rico.

CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 14S, 28C
 Centroid Location:
 Origin Time 15:14:48.7 0.7
 Lat 18.56N 0.07 Lon 69.70W 0.06
 Dep 101.5 5.4 Half-duration 1.7
 Moment Tensor: Scale 10**16 Nm
 Mrr=1.70 0.38 Mtt=2.46 0.77
 Mff=-4.16 0.87 Mrt=3.34 0.42
 Mrf=-5.50 0.49 Mtf=-5.99 0.73
 Principal Axes:
 T Val=10.08 Plg=36 Azm=38
 N -1.28 47 179
 P -8.80 20 292
 Best Double Couple: Mo=9.4*10**16
 NP1: Strike=70 Dip=49 Slip=167
 NP2: 168 80 42

PORP	2.69	104 P	15 29.00	1.7
CSB	3.09	98 P	15 33.90	1.1
SJG	3.12	101 iP	15 34.00	0.7
LPR	3.35	97 P	15 36.50	0.0
CPD	3.36	101 P	15 37.00	0.5
SKI	6.46	101 eP	16 19.00	-0.3
		eS	17 33.00	
NEV	6.67	103 eP	16 22.00	-0.1
CPB	7.26	97 eP	16 29.86	-0.3
BPA	7.35	102 eP	16 30.02	-1.5
		eS	17 52.02	
FISA	7.42	180 iPd	16 33.00	0.6
		eS	17 59.00	
MORO	7.87	172 iPc	16 38.50	-0.2
		iS	18 05.00	
BBL	8.19	112 eP	16 43.00	0.0
		eTT	24 00.00	
CAR	8.51	164 iPc	16 47.50	0.1
		iS	18 14.00	
GUAC	8.72	166 iPd	16 50.00	-0.4
		eS	18 19.00	
FDF	8.82	116 eP	16 51.60	0.0
	0.1s	4.10nm		5.0mb
TOV	8.90	183 iPnc	16 53.10	0.5
		iSn	18 26.20	
OLLA	9.01	164 iPd	16 54.50	0.3
		iS	18 26.00	
SLB	9.37	120 eP	16 58.10	-0.9
		eS	18 30.60	
		eTT	25 31.00	
SVB	9.51	124 eP	17 00.45	-0.4
		eTT	25 40.00	
SVV	9.51	123 eP	16 59.50	-1.4
		eTT	25 40.00	
CUM	9.63	148 eP	17 03.00	0.5
CEOS	9.69	174 iPc	17 03.00	-0.4
		eS	18 45.00	
SDV	9.86	187 ePn	17 06.20	0.5
		iSn	18 18.90	
GRW	9.89	130 eP	17 05.09	-1.0
		eS	19 00.29	
TCE	10.86	136 eP	17 19.62	0.6
TRN	11.13	135 eP	17 23.16	0.6
		eS	19 18.66	
BOT	11.24	131 eP	17 26.23	2.2
TPP	11.34	136 eP	17 26.83	1.5
TBH	11.48	134 eP	17 28.05	0.9
		eS	19 27.55	
HBF	17.25	327 P	18 40.90	-0.1
SGS	17.52	327 P	18 43.60	-0.7
JSC	18.76	328 P	18 57.60	-1.3
PRM	19.19	325 eP	19 02.90	-0.6
COTA	20.28	207 P	19 16.00	0.4
CAYA	20.37	205 P	19 18.00	1.6
NA2	20.67	341 P	19 18.50	-0.2
YANA	20.79	207 P+	19 22.00	1.3
BLA	20.81	334 eP	19 20.50	0.3
	0.7s	75.34nm		5.1mb
OTO	20.85	207 eP	19 22.00	0.8
TKL	21.13	326 eP	19 23.60	0.2
VC1	21.19	206 P	19 26.00	1.3
GBTN	21.37	325 P	19 25.60	-0.2
GMTN	22.47	350 iP	19 38.00	2.3

BNH	25.84	357 P	20 09.00	0.4	BRK	49.64	304 eP	23 28.70	0.4	TCF	64.06	72.00nm	25 10.30	5.7mb
RSNY	26.11	352 P	20 11.30	0.2	PCC	49.69	304 eP	23 29.10	0.4	MAF	64.30	47 iPc	25 11.80	-0.1
	1.2s	58.31nm		5.0mb	WDC	50.24	308 eP	23 30.20	-2.7		1.0s	42.00nm		-0.2
MIM	26.44	1 P	20 14.50	0.4	PNT	50.36	319 eP	23 34.00	0.3	BGF	64.49	47 iPc	25 12.80	5.3mb
FVM	26.56	321 P	20 15.00	-0.3	MDZ	51.32	179 eP	23 40.00	-1.1	PYM	64.62	48 P	25 13.89	-0.4
TUL	28.91	312 iPd	20 36.50	-0.1	FHC	51.36	308 eP	23 41.50	0.1	ETER	64.63	51 iPc	25 14.80	-0.2
	1.1s	151.80nm		5.5mb	PEL	51.59	181 iPd	23 41.50	-1.6	GRC	64.64	46 P	25 13.83	0.7
Z	20s	0.70um		4.3msz	CHCH	52.38	181 eP	23 58.80	9.8x	LBL	64.80	48 P	25 15.34	-0.2
SIO	29.20	311 eP	20 38.90	-0.3	LNW	52.42	182 eP	23 47.00	-2.2	AVF	64.84	46 iPc	25 14.80	0.2
MEO	30.45	308 iPd	20 49.50	-0.7	PGC	52.58	317 eP	23 49.00	-1.4	SSF	64.94	46 iPc	25 15.60	-0.6
RRO	30.56	309 ePd	20 52.00	0.8	YKA	53.66	336 eP	23 56.60	-1.5		1.0s	52.00nm		-0.4
		e	21 15.40	105km		0.6s	24.80nm		5.4mb	PLDF	65.04	47 P	25 16.23	5.4mb
ACO	31.67	311 iP	21 00.80	-0.2	EVAL	57.32	57 iPc	24 25.20	0.3	LOR	65.18	46 iPc	25 17.10	-0.6
	0.9s	182.20nm		5.8mb	EPLA	57.90	54 iPc	24 28.80	-0.1		0.6s	70.45nm		-0.5
ZOBO	34.80	178 P	21 27.00	-1.7	EJIF	58.34	58 eP	24 33.30	1.3	Z	20s	0.17um		4.3msz
	20s	0.23um		3.9msz	EHOR	58.51	57 iPc	24 33.10	-0.1	SMF	65.18	47 iPc	25 17.20	-0.4
		LR	58 20.00		ECB	58.70	40 eP	24 33.80	-0.4	LBF	65.26	46 iPc	25 17.60	-0.5
SIV	35.45	166 iPc	21 31.20	-2.4		0.8s	91.00nm		5.9mb		0.8s	33.60nm		5.3mb
CCH	36.02	175 P	21 39.50	0.8	ECP	58.92	40 eP	24 35.30	-0.4	SNF	65.43	42 Pc	25 18.70	-0.3
		i	21 52.50	49kmX	ETA	59.10	39 eP	24 36.70	-0.3	DOU	65.63	43 Pc	25 19.70	-0.6
ALO	36.58	304 ePd	21 43.00	-0.2		1.0s	104.00nm		5.9mb	ENN	66.47	42 iPc	25 25.50	-0.2
	0.9s	39.92nm		5.3mb	GUD	59.38	53 iPc	24 39.40	0.0		0.9s	104.00nm		5.8mb
		esP	22 06.00	98km	TOL	59.46	54 iPc	24 39.00	-0.7			e	25 51.50	103km
			22 17.00			1.1s	151.90nm		6.0mb	VITF	66.58	45 P	25 26.09	-0.4
ANMO	36.58	304 P	21 44.00	0.8	EBAN	59.66	56 iPc	24 41.00	-0.2	HAU	66.83	45 iPc	25 27.90	-0.3
	0.9s	44.12nm		5.4mb	ECOG	59.85	57 iPd	24 43.10	0.5		1.0s	44.00nm		5.3mb
		pP	22 06.00	93km	AFC	59.87	57 iPc	24 43.40	0.6	Z	20s	0.17um		4.3msz
GLD	37.30	312 P	21 50.00	0.8	BST	59.88	45 P	24 42.49	0.1	WTS	67.00	41 iPc	25 29.40	0.4
	1.2s	115.15nm		5.7mb	ECRI	60.65	51 iPc	24 48.30	0.4		0.7s	157.00nm		6.0mb
		pP	22 13.50	100km	EVIA	60.66	56 iPc	24 48.30	0.2			e	25 55.00	101km
GOL	37.38	312 P	21 50.00	0.0	EAB	60.78	36 ePc	24 47.60	-0.8			e	26 05.00	
	0.8s	56.55nm		5.5mb		0.7s	67.00nm		5.8mb	LRG	67.12	50 iPc	25 30.20	0.2
SOB1	39.49	132 eP	22 06.30	-1.3	ENIJ	60.94	58 iPc	24 49.90	0.0		0.8s	26.85nm		5.2mb
		e	22 30.90	106km	ETOR	60.98	53 iPc	24 50.70	0.5	BSF	67.14	45 P	25 29.38	-0.8
BAO	40.11	147 eP	22 12.00	-0.7	ELO	61.17	35 ePc	24 50.20	-0.9	LOMF	67.19	46 P	25 30.14	-0.3
CAI	40.49	125 iPd	22 15.10	-0.7	EBH	61.25	36 ePc	24 50.60	-1.0	BNI	67.23	48 Pd	25 31.40	0.6
DUG	42.92	309 P	22 36.00	0.4		0.9s	44.00nm		5.5mb	LPL	67.24	48 iPc	25 31.50	0.5
	0.9s	48.87nm		5.3mb	EKA	61.30	37 Pd	24 51.70	-0.2	LMR	67.24	50 eP	25 30.60	-0.2
		pP	22 59.30	99km		0.8s	45.90nm		5.6mb		1.0s	28.00nm		5.1mb
GLA	42.98	299 eP	22 37.00	1.0	EBL	61.43	36 ePc	24 52.00	-0.8	LPG	67.25	48 iPc	25 31.70	0.5
FFC	43.69	333 iPc	22 40.20	-1.2		0.7s	39.00nm		5.5mb		0.8s	52.45nm		5.5mb
	0.6s	28.00nm		5.3mb	EDU	61.57	35 ePc	24 53.20	-0.5	RRL	67.32	48 P	25 31.72	0.2
TPC	44.14	300 eP	22 46.00	0.6		0.7s	70.00nm		5.8mb	FRF	67.32	50 iPc	25 31.00	-0.3
BAR	44.48	298 eP	22 48.00	-0.1	ESY	61.69	36 ePc	24 53.80	-0.8		1.0s	56.00nm		5.4mb
LRM	44.59	317 eP	22 49.00	-0.1		0.7s	46.00nm		5.6mb	EMS	67.34	47 ePc	25 31.60	0.0
PLM	44.71	299 eP	22 51.00	0.9	BOH	61.76	51 P	24 55.69	0.3	ECH	67.37	45 P	25 31.20	-0.3
GSC	44.93	301 eP	22 52.00	0.3	ELYF	61.77	51 P	24 55.08	-0.3	MOF	67.37	45 P	25 30.90	-0.7
FRB	44.99	1 ePc	22 51.40	-0.2	ECHE	61.83	55 eP	24 56.40	0.5	CDF	67.44	45 P	25 31.46	-0.5
	0.8s	67.00nm		5.5mb	LPF	61.88	45 iPc	24 55.80	-0.1	WLS	67.49	45 P	25 31.59	-0.7
RVR	45.21	300 eP	22 54.00	0.1	MADF	61.90	51 P	24 56.12	-0.1	ABH	67.54	43 eP	25 32.67	0.1
CLC	45.64	302 eP	22 58.00	0.7	ISSF	61.92	51 P	24 57.01	0.5	LSD	67.54	48 P	25 33.26	0.3
SBB	45.67	300 eP	22 58.00	0.4	ATE	61.98	51 P	24 56.90	0.1	PZZ	67.57	49 P	25 33.36	0.3
SES	45.71	324 eP	22 58.00	0.4	GRR	62.02	45 iPc	24 57.00	0.1	GW	67.63	44 P	25 33.11	0.0
	0.7s	51.00nm		5.5mb	LHE	62.04	51 P	24 57.40	0.1	RSP	67.63	48 P	25 34.08	0.7
		pP	23 22.00	102km	ESCF	62.08	51 P	24 57.64	0.2	DIX	67.67	47 ePc	25 34.40	0.6
TNP	45.74	305 P	22 59.00	0.8	JAU	62.23	51 P	24 58.98	0.4	DOI	67.68	49 Pd	25 34.10	0.5
	1.0s	50.00nm		5.3mb	LKO	62.26	89 Pc	24 58.42	-0.6	STV	67.76	49 P	25 34.29	0.2
MWC	45.80	300 eP	22 59.00	0.2		0.8s	86.00nm		5.8mb	ENR	67.83	49 P	25 34.18	-0.3
PAS	45.89	300 eP	22 59.00	-0.2	FLN	62.29	44 iPc	24 58.80	0.2	SBF	67.87	49 iPc	25 34.70	-0.1
ISA	46.33	302 eP	23 04.00	1.3		0.6s	70.45nm		5.8mb		0.8s	45.65nm		5.5mb
VAO	46.89	151 eP	23 06.30	-1.0	Z	20s	0.10um		4.0msz	FEL	67.96	45 P	25 34.78	-0.6
SYF	47.42	300 eP	23 12.00	0.6	MFF	62.43	47 iPc	24 59.90	0.3	MMK	68.06	47 ePc	25 37.10	1.0
FRI	47.50	303 ePd	23 11.30	-0.6	LDF	62.52	44 iPc	25 00.40	0.3	TNS	68.10	43 ePc	25 31.40	-4.7x
		epP	23 23.40	44kmX	EPF	62.75	51 iPc	25 02.50	0.6	ORO	68.11	48 P	25 36.00	-0.3
		e	23 35.30			0.8s	104.95nm		5.8mb	ORX	68.11	48 P	25 35.21	-1.1
		e	23 48.00		MBC	62.89	348 ePc	25 01.60	-0.6	ROB	68.14	49 P	25 36.34	-0.1
BMA	47.98	148 (P)	23 15.00	-0.7		0.5s	14.00nm		5.2mb	IMI	68.19	49 P	25 35.83	-0.9
PRI	48.15	302 eP	23 17.00	-0.1	LFF	63.03	49 iPc	25 03.80	0.2	ZLA	68.24	46 ePc	25 37.00	0.0
CMB	48.19	305 ePd	23 17.30	0.0		0.8s	85.95nm		5.7mb	SLE	68.29	45 ePc	25 37.00	-0.3
		epP	23 30.10	47kmX	INK	63.26	338 eP	25 03.00	-1.7	FBA	68.30	333 eP	25 35.80	-1.1
EDM	48.31	326 eP	23 17.50	-0.4			pP	25 39.00	151kmX	FIN	68.39	49 P	25 36.85	-1.1
	0.6s	45.00nm		5.5mb	DAG	63.32	11 iPd	25 04.00	-1.0	CKI	68.42	49 Pd	25 38.10	0.0
		pP	23 41.50	101km		0.7s	86.76nm		5.8mb	PCP	68.60	49 P	25 39.11	-0.2
LLA	48.44	303 eP	23 19.20	0.1			iP	25 33.00	118kmX	VAI	68.64	47 P	25 39.20	-0.1
NEW	48.45	319 P	23 18.80	-0.3	LPO	63.35	49 iPc	25 05.70	0.0	TMA	68.69	47 ePc	25 40.10	0.2
	0.9s	96.49nm		5.7mb		0.8s	59.10nm		5.6mb	LLS	68.70	46 ePc	25 40.60	0.6
		pP	23 41.00	92km	RJF	63.58	48 iPc	25 07.30	0.1	PMR	68.85	330 eP	25 39.80	-0.5
PRS	48.74	302 eP	23 21.50	0.0		0.8s	85.95nm		5.7mb		0.7s	10.90nm		4.8mb
SAO	48.85	303 eP	23 22.50	0.2	Z	20s	0.10um		4.0msz	RGS	68.87	29 eP	25 40.60	0.2
MHC	49.08	303 eP	23 25.10	0.9	LSF	63.58	47 iPc	25 07.10	-0.2	SAX	68.91	46 ePc	25 41.80	0.4
		epP	23 36.80	42kmX	TIC	63.63	92 Pc	25 06.84	-1.2	VDL	69.06	47 ePc	25 42.80	0.6
ORV	49.29	306 eP	23 25.80	0.2		1.0s	53.00nm		5.4mb	PGF	69.14	51 iPc	25 42.40	-0.3
		epP	23 36.30	36kmX	LIC	63.75	92 Pc	25 07.76	-1.1		0.8s	32.25nm		5.2mb
MIN	49.50	307 eP	23 26.50	-0.9		0.9s	58.50nm		5.5mb	BOB	69.22	48 P	25 43.50	0.4
BKS	49.62	304 eP	23 28.00	-0.2	CAF	63.97	49 iPc	25 09.80	0.0	NB2	69.26	31 P	25 43.50	0.6
	0.8s	109.00nm		5.9mb	KIC	63.98	92 Pc	25 09.52	-0.8					

MDI	69.30	47 P	25 43.00	-0.4	LCI	76.14	52 P	26 25.00	1.3	KOD	145.56	114 ePKP	43 56.80	8.7X
OSS	69.51	46 ePc	25 45.30	0.4	OHR	78.06	51 iPc	26 35.90	1.5	GBA	147.31	109 PKPc	44 00.80	10.4X
GRF	69.93	43 iPc	25 47.20	0.0		0.7s	95.00nm		5.7mb	HYB	150.02	103 ePKP	44 08.00	13.3X
	1.5s	79.00nm		5.3mb			e	26 42.20	20kmX		S.D. = 1.1	on 11 of 18 obs.		
Z	20s	0.30um		4.5Msz	VTs	79.42	49 iPc	26 44.00	2.1					
		e(pP)	26 24.00	152kmX	KKB	79.53	49 iPc	26 44.00	1.7					
KBS	70.07	12 eP	25 48.20	0.6	CMP	79.96	46 ePc	26 46.00	1.5					
OGA	70.09	46 eP	25 48.70	0.2	MMB	80.07	50 ePc	26 47.00	1.8					
	0.8s	53.00nm		5.4mb	PVL	80.74	48 iPc	26 49.00	0.3					
MOX	70.09	42 eP	25 48.00	-0.2	RZN	80.75	49 iPc	26 50.00	1.0					
	1.2s	21.00nm		4.8mb	DIM	81.23	49 iPc	26 53.00	1.8					
		e	26 25.00	152kmX	KDZ	81.26	49 iPc	26 53.00	1.5					
BDI	70.12	49 P	25 47.00	-1.6	EZN	82.47	51 eP	26 58.60	0.9					
FUR	70.12	45 iPc	25 48.70	0.3	AIA	83.80	178 eP	27 04.10	0.3					
SOTA	70.17	46 iPc	25 49.10	0.2	RUV	83.86	252 iP	27 05.50	0.4					
	0.5s	25.60nm		5.3mb		0.8s	30.00nm		5.3mb					
		iPp	26 15.20	102km	TPT	83.99	252 iP	27 05.50	-0.3					
		iSp	26 25.10			0.8s	20.00nm		5.1mb					
HOF	70.29	42 iPc	25 49.20	-0.2	VAH	84.10	252 iP	27 06.70	0.4					
	0.9s	16.00nm		4.8mb		0.8s	25.00nm		5.2mb					
WATA	70.41	45 iPc	25 50.10	-0.3	PMO	84.25	252 iP	27 07.50	0.4					
HFS	70.52	32 eP	25 50.20	-0.4		0.8s	30.00nm		5.3mb					
	0.7s	23.90nm		5.1mb	YLV	84.44	49 iP	27 08.20	0.4					
Z	17s	0.14um		4.3MszX	BCK	86.40	52 eP	27 18.00	0.3					
		LR	48 01.00		BCAO	86.62	86 iPc	27 19.50	0.5					
CTI	70.61	47 P	25 51.00	-0.6		0.8s	147.00nm		6.1mb					
IMA	70.75	335 eP	25 51.50	-0.6			i	27 46.00	100km					
	0.5s	13.00nm		5.0mb			ic	27 56.00						
		e	26 17.70	103km			iS	35 34.30						
CLL	70.90	41 iPc	25 53.10	0.1	BBTK	87.12	49 eP	27 23.00	1.9					
	1.5s	50.00nm		5.1mb	PRNI	92.46	57 eP	27 47.00	0.8					
		i	26 29.90	151kmX	MBH	92.60	58 eP	27 47.00	0.3					
PGD	70.95	49 P	25 52.50	-1.2	BJI	121.31	355 ePKP	33 26.30	-1.7					
SFI	71.03	49 P	25 53.50	-0.5	MAW	122.61	160 iPKP	33 29.10	-0.5					
WET	71.06	43 iPc	25 54.40	0.3	LZH	125.11	7 ePKP	33 35.50	-0.2					
	0.9s	62.00nm		5.4mb		1.2s	16.00nm							

T Vol= 9.78 Pig= 2 Azm=124
 N 1.64 77 26
 P -11.42 13 214
 Best Double Couple: Mo=1.1*10**17
 NP1: Strike=258 Dip=79 Slip=-8
 NP2: 350 82 -169

PMG 5.94 175 eP 50 20.50 -1.6
 0.9s 252.10nm 5.9mb
 HNR 14.53 115 eP 52 18.00 -1.5
 CTA 16.53 181 iPd 52 49.10 3.7X
 1.6s 320.00nm 5.2mb

OIS 18.31 201 iPc 53 08.00 0.4
 WB5 20.22 215 eP 53 28.00 -1.6
 RMO 22.99 175 eP 53 57.50 0.0
 BRS 24.52 167 iPc 54 14.00 1.6
 DZM 26.71 136 iPd 54 33.90 0.9
 CMS 27.89 181 ePd 54 51.00 7.5X
 STK 28.66 189 iPc 54 56.10 5.6X
 1.3s 16.00nm 4.6mb

WARB 29.61 218 eP 54 50.00 -0.1
 ADE 32.20 192 e(P) 55 15.10 -6.7X
 MAT 40.55 350 (P) 56 31.00 -1.6
 1.6s 43.33nm 4.9mb

MTMJ 40.67 349 P 56 31.70 -1.9
 NIJ 41.10 351 P 56 35.40 -1.6
 SSE 42.04 327 eP 56 46.00 1.3
 1.5s 30.00nm 4.8mb
 Z 20s 1.80um 4.9Msz
 E 10s 0.50um

LOE 48.88 297 eP 57 39.00 -0.5
 NNT 49.21 290 eP 57 53.00 10.9X
 NST 49.74 294 eP 57 47.20 1.1
 KMI 51.16 306 Pd 57 58.50 1.4
 1.5s 70.00nm 5.4mb
 Z 20s 1.00um 4.8Msz
 pP 58 07.50 30km
 S 05 12.00
 S 05 01.00 1.8

BJI 51.50 330 eP 58 01.00 1.8
 1.2s 16.00nm 4.8mb
 Z 24s 0.89um 4.7MszX

CHG 51.85 297 eP 58 01.50 -0.7
 LZM 56.04 318 eP 58 33.00 0.0
 2.0s 57.00nm 5.3mb
 Z 22s 1.36um 5.0Msz
 pP 58 40.00 23km
 sP 58 44.00
 PcP 59 31.50

SHL 60.32 302 eP 59 02.00 -1.1
 KOD 70.16 282 eP 00 06.50 -0.4
 HYB 70.21 290 eP 00 11.50 4.6X
 IMA 81.34 21 eP 01 09.50 0.3
 1.6s 28.80nm 5.1mb

QUE 82.80 301 eP 01 18.00 0.4
 CNCB 140.35 122 PKP 08 26.00 2.1
 LPB 140.38 121 (PKP) 08 33.00 9.2X
 ZOBO 140.48 121 PKP 08 25.00 0.9
 i 08 45.00
 LR 55 48.00

SIV 146.50 126 PKP 08 34.60 0.8
 LKO 151.72 284 PKP 08 49.06 7.1X
 S.D. = 1.3 on 25 of 33 obs.

? OCT 11, 1990 22h 33m 01.65±1.02s
 40.383 N ±11.2km 15.577 E ±11.5km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN ITALY (390)

MGR 0.25 184 P 33 06.80 -0.1
 eSg 33 12.30
 SGO 0.27 311 P 33 06.60 -0.7
 eSg 33 12.20
 BSS 0.71 305 P 33 16.50 0.8
 eSg 33 25.00
 ORI 0.74 115 P 33 16.20 0.0
 eSg 33 27.50
 S.D. = 1.1 on 4 of 4 obs.

* OCT 11, 1990 23h 12m 27.56±1.15s
 51.293 N ±20.5km 178.467 E ±11.1km
 DEPTH = 33.0km (normol)

4.4mb (2 obs.)
 RAT ISLANDS, ALEUTIAN ISLANDS (6)

SMY 3.06 300 eP 13 16.50 1.9
 ADK 3.08 77 eP 13 17.00 2.0
 IMA 20.44 33 eP 17 04.50 0.0
 FBA 22.08 39 eP 17 20.00 -0.9
 INK 28.52 35 eP 18 21.00 -0.5
 MBC 34.33 22 eP 19 12.50 0.0
 0.6s 7.00nm 4.8mb
 NB2 67.55 353 P 23 20.50 -1.7
 0.7s 1.20nm 4.1mb
 W85 80.72 222 eP 24 38.10 -0.6
 GBA 86.27 287 Pd 25 07.10 -0.1
 0.6s 34.30nm 5.8mb X
 IFR 95.50 3 iP 25 55.00 4.6X
 i 25 59.00

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

? OCT 11, 1990 23h 14m 13.76±3.49s
 36.692 N ±20.7km 71.132 E ±19.0km
 DEPTH = 71.7 ±38.7 km
 4.2mb (2 obs.)
 AFGHANISTAN-USSR BORDER REGION (717)

QUE 7.37 210 iPc 16 02.40 1.4
 0.0s 19.78nm 4.8mb X
 eS 17 23.50
 MAIO 9.38 271 iPc 16 27.00 -1.6
 0.7s 15.88nm 5.1mb X
 eS 18 07.00
 NDI 9.49 146 iPd 16 30.50 0.6
 iS 18 07.00
 HYB 20.29 159 eP 18 43.50 -2.7
 SHL 20.90 116 iP 18 52.00 -0.4
 eS 22 27.00
 GBA 23.67 165 P 19 21.00 1.4
 S 24 21.00
 LZM 26.27 81 P 19 37.50 -6.8X
 KEV 40.66 338 eP 21 48.00 0.0
 HFS 42.98 322 eP 22 08.00 0.9
 0.5s 2.00nm 4.2mb
 NB2 44.29 323 P 22 18.20 0.4
 0.7s 2.50nm 4.1mb

S.D. = 1.7 on 9 of 10 obs.

OCT 11, 1990 23h 21m 15.15±0.44s
 37.830 N ±3.8km 19.813 E ±2.4km
 DEPTH = 38.2 ±5.7 km
 4.1mb (21 obs.)
 IONIAN SEA (399)
 MD 4.5 (ATH).

VLS 0.70 60 ePg 21 26.50 -2.2
 IGT 1.75 13 iPd 21 44.74 1.2
 ITM 1.80 110 ePb 21 43.20 -1.2
 KEK 1.88 360 ePn 21 46.00 0.5
 SRN 2.05 4 iPn 21 48.30 0.4
 AGG 2.31 58 iPc 21 53.29 1.7
 eS 22 16.62
 LSK 2.40 15 iPnd 21 54.20 1.3
 VLO 2.65 355 ePn 21 57.20 0.9
 VLI 2.73 113 ePn 21 58.00 0.4
 BERA 2.87 2 iPnc 22 00.20 0.7
 LCI 2.89 331 P 21 59.10 -0.7
 KBN 2.90 15 iPnd 22 01.90 2.0
 KZN 2.90 31 ePb 22 02.50 2.4
 NEO 3.05 60 ePn 22 02.00 -0.2
 ROI 3.08 305 P 22 03.10 0.6
 eS 22 43.40
 LIT 3.08 42 ePc 22 03.98 1.4
 ATH 3.09 86 ePb 22 05.00 2.3
 FNA 3.19 22 iPd 22 05.29 1.2
 CZI 3.20 297 P 22 04.50 0.3
 eS 22 44.60
 TDS 3.27 305 P 22 05.00 -0.2
 OHR 3.36 13 iPnc 22 07.90 1.3
 iSn 22 47.10
 LRI 23 21.90
 CSI 3.37 306 P 22 07.30 0.6
 eS 22 56.00
 MSI 3.38 278 P 22 06.30 -0.5
 ORI 3.44 311 P 22 07.80 0.1
 TIR 3.51 1 ePn 22 09.20 0.5
 GRG 3.71 32 ePd 22 12.00 0.6
 THE 3.72 40 iPd 22 12.46 0.9
 PLG 3.80 47 ePn 22 12.50 -0.3

MGR 4.04 306 P 22 17.00 0.8
 SOH 4.06 41 iPc 22 17.29 0.8
 KNT 4.09 35 iPc 22 17.53 0.6
 ULC 4.15 354 ePn 22 16.20 -1.5
 eSn 23 03.00
 KKS 4.27 6 ePn 22 20.90 1.6
 VAM 4.28 123 ePn 22 17.00 -2.5
 SKO 4.32 16 iPn 22 19.50 -0.6
 iPb 22 27.00
 iPg 22 34.00
 i 22 36.00
 i 22 45.00
 iSn 23 05.00
 i 23 08.00
 i 23 12.00
 iSb 23 15.50
 i 23 17.50
 i 23 20.00
 iSg 23 23.00
 iPd 22 21.06 -0.1
 SGO 4.43 309 P 22 22.10 0.4
 BDV 4.51 351 ePn 22 20.90 -1.9
 eSn 23 09.50
 GIB 4.58 274 P 22 23.60 -0.3
 APE 4.61 98 ePb 22 28.00 3.6X
 TTG 4.61 355 ePn 22 23.80 -0.5
 eSn 23 13.00
 HCY 4.72 348 ePn 22 24.00 -1.8
 eSn 23 15.00
 KKB 4.75 31 iPc 22 26.00 -0.3
 PVY 4.76 1 ePn 22 26.50 0.0
 eSn 23 20.20
 MMB 4.82 38 ePc 22 27.00 -0.2
 BSS 4.88 309 P 22 28.10 0.0
 FAI 4.91 265 P 22 28.00 -0.4
 NKY 5.02 353 ePn 22 29.00 -1.0
 eSn 23 27.00
 IVA 5.04 1 ePn 22 30.40 0.1
 eSn 23 27.00
 BRY 5.16 350 ePn 22 30.50 -1.6
 eSn 23 27.50
 PRK 5.26 72 ePn 22 35.00 1.7
 NPS 5.33 117 ePn 22 34.00 -0.3
 RZN 5.40 43 iPc 22 35.00 -0.4
 VTS 5.42 28 iPd 22 37.00 1.3
 EZN 5.46 67 eP 22 38.00 1.8
 PLE 5.50 357 ePn 22 36.50 -0.4
 eSn 23 38.00
 RDO 5.53 51 ePn 22 36.00 -1.1
 SMG 5.57 89 ePn 22 42.00 4.3X
 DUI 5.63 315 P 22 39.00 0.4
 ALN 5.72 56 ePc 22 40.50 0.7
 KDZ 5.76 47 iPd 22 39.00 -1.5
 PGB 5.77 34 iP 22 40.00 -0.7
 IZM 5.90 82 eP 22 44.00 1.5
 HVAR 5.92 335 ePn 22 40.00 -2.8
 iSn 23 51.80
 SDI 6.03 312 P 22 43.40 -0.9
 DIM 6.09 44 iPc 22 45.00 -0.1
 KAP 6.34 109 ePn 22 47.50 -1.1
 AZI 6.42 312 P 22 49.50 -0.2
 MFT 6.50 61 eP 22 49.00 -1.9
 AQU 6.67 315 Pd 22 54.00 0.7
 BNT 6.79 66 eP 23 00.00 5.1X
 PVL 6.83 36 iPd 22 52.00 -3.4X
 BEO 7.00 4 iPn 23 11.00 13.2X
 MNS 7.11 312 P 22 58.80 -0.6
 DST 7.12 73 eP 22 58.80 -0.8
 BLY 7.19 345 eP 23 12.50 12.0X
 eS 24 21.50
 CTT 7.44 61 eP 23 02.00 -2.0
 ASS 7.56 316 P 23 06.00 0.3
 ARV 7.70 319 Pd 23 06.50 -1.2
 BZS 7.90 9 eP 23 09.50 -0.8
 YLV 7.91 67 iP 23 10.50 -0.2
 IZI 7.92 69 eP 23 10.00 -0.8
 KSL 8.00 99 ePn 23 10.50 -1.4
 ALT 8.17 78 eP 23 15.00 0.6
 HRT 8.20 66 eP 23 22.00 7.3X
 CRE 8.31 317 P 23 16.50 0.3
 VBY 8.39 337 eP 23 23.60 6.4X
 e(S) 25 01.40
 CMP 8.40 26 ePc 23 17.00 -0.3
 ZAG 8.48 342 ePn 23 16.50 -1.8
 TNR 8.50 22 ePd 23 37.00 18.4X
 RIY 8.54 333 e(Pn) 23 17.90 -1.2
 BCK 8.56 89 eP 23 21.00 2.2

11d 23h

SFI	8.56	318	P	23	19.90	0.4
PGD	8.60	317	P	23	20.50	0.2
PSN	8.63	45	iPd	23	19.00	-1.5
CEY	8.86	335	eP	23	24.00	0.2
			eS	25	01.50	
MLR	8.92	29	ePd	23	25.50	0.9
TRI	9.07	332	e(Pn)	23	24.00	-2.6
			i(Sn)	25	01.50	
			i	26	01.40	
LJU	9.10	336	eP	23	25.30	-1.6
			eS	25	04.00	
VOY	9.30	334	eP	23	27.00	-2.1
			eS	25	09.30	
VR1	9.54	30	ePc	23	33.50	0.4
SOP	10.13	347	eP	23	49.00	8.7X
FVI	10.19	331	P	23	40.00	-1.9
CTI	10.21	326	P	23	39.50	-2.9
SAL	10.41	321	P	23	44.00	-1.0
ZST	10.55	350	eP	23	58.40	11.6X
BHG	11.12	335	iPd	23	52.40	-2.2
CSS	11.26	101	eP	23	56.00	-0.7
SOTA	11.32	329	iPc	23	56.30	-1.2
			iS	24	02.50	
			i	25	56.30	
SPC	11.36	1	e(P)	23	57.60	-0.4
KHC	12.16	340	P	24	05.50	-3.2X
			e	24	22.20	
KRA	12.22	0	eP	24	28.30	18.8X
LPG	12.40	312	eP	24	22.90	10.7X
	0.6s	4.50nm				
LPL	12.42	312	eP	24	23.30	10.9X
	0.8s	6.70nm				
HLW	12.44	126	eP	24	06.50	-6.0X
			eS	26	15.00	
PRU	12.73	344	eP	24	14.30	-1.9
			e	24	24.00	
GRF	13.37	335	eP	24	36.50	11.8X
	Z	19s	0.10um			
ADI	13.43	106	e(P)	24	19.00	-6.5X
ZNT	13.66	110	eP	24	21.00	-7.5X
			eS	26	39.00	
BRG	13.69	344	eP	24	40.20	11.3X
			e	27	27.00	
			e	28	12.00	
BSF	13.81	321	eP	24	41.90	11.3X
	0.4s	3.45nm				
CDF	13.97	323	eP	24	41.70	9.1X
	0.4s	3.45nm			4.4mb	
MOX	14.08	338	eP	24	40.00	6.0X
			e	29	28.00	
HAU	14.15	320	eP	24	43.80	8.9X
	0.6s	3.60nm			4.2mb	
	Z	20s	0.15um			
CLL	14.31	342	e(P)	24	44.00	7.0X
			e	25	42.00	
PRNI	14.62	116	eP	24	34.00	-7.2X
SMF	14.73	312	eP	24	51.80	9.3X
	0.6s	3.60nm			3.9mb	
TNS	14.82	330	ePd	24	52.00	8.3X
LBF	14.83	313	eP	24	50.10	6.3X
	0.8s	10.75nm			4.3mb	
ABH	14.92	328	eP	24	53.12	8.1X
LOR	15.05	314	eP	24	53.10	6.4X
	0.8s	5.35nm			3.9mb	
	Z	20s	0.15um			
SSF	15.14	313	eP	24	53.80	5.9X
	0.7s	4.95nm			3.9mb	
MAF	15.29	309	eP	24	56.30	6.4X
	0.6s	3.60nm			3.8mb	
TCF	15.54	308	eP	24	56.30	3.2X
	0.8s	5.35nm			3.8mb	
ENN	16.28	327	eP	25	08.00	5.7X
	0.9s	31.00nm			4.4mb	
ECHE	16.32	283	e(P)	25	08.00	4.9X
DOU	16.40	323	P	25	07.10	3.1X
	0.7s	12.20nm			4.1mb	
WTS	16.85	331	eP	25	19.00	9.4X
	1.0s	13.00nm			4.0mb	
MFF	17.15	307	eP	25	17.20	3.8X
	0.8s	5.35nm			3.7mb	
ECRI	17.69	293	e(P)	25	22.00	1.8
LDF	18.02	313	eP	25	26.90	2.7
	0.6s	3.60nm			3.7mb	
LPF	18.31	310	eP	25	27.60	-0.1
	0.6s	9.00nm			4.1mb	
FLN	18.32	313	eP	25	28.70	0.9

	0.6s	4.50nm		3.8mb	
Z	20s	0.15um			
GRR	18.36	312	eP	25	29.60 1.3
	0.8s	8.05nm		3.9mb	
TOL	18.69	284	eP	25	42.00 9.5X
GUD	18.76	286	eP	25	35.00 1.4
TAB	20.89	81	eP	25	51.00 -5.7X
UPP	22.09	357	iP	26	08.20 -0.1
KER	22.30	91	eP	26	10.00 -0.8
AVE	22.57	267	iP	26	15.50 2.2
HFS	22.66	352	eP	26	14.00 0.0
	0.8s	16.80nm		4.6mb	
	Z	15s	0.11um	3.4MszX	
NUR	22.91	6	eP	26	16.00 -0.3
	0.7s	14.70nm		4.6mb	
TIO	23.33	261	iP	26	25.40 4.5X
EKA	23.40	326	P	26	22.00 0.9
	0.8s	31.90nm		4.9mb	
NB2	23.85	350	P	26	26.20 0.6
	0.8s	12.80nm		4.5mb	
SUF	25.22	7	eP	26	40.00 1.4
SOD	29.84	5	eP	27	21.00 0.4
		e	27	27.00	
KEY	32.22	5	eP	27	28.00 -13.5X
BCAO	33.26	182	iPc	27	51.00 -0.1
	0.7s	22.00nm		5.2mbX	
LKO	36.28	226	P	28	16.04 -0.9
TIC	38.37	222	P	28	34.90 0.5
KIC	38.46	222	P	28	34.90 -0.3
	1.0s	11.00nm		4.6mb	
LIC	38.72	222	P	28	37.00 -0.4
	Z	20s	0.09um	3.6Msz	
QUE	39.47	87	eP	28	43.40 -0.4
WMO	50.42	60	P	30	10.00 -0.8
		pP	30	20.00 33kmX	
HYB	54.97	95	eP	30	42.50 -2.5
GTA	60.48	61	P	31	22.80 -0.8
TIY	69.92	58	eP	32	25.50 1.0
CHG	70.29	81	eP	32	27.00 0.1
GYA	71.96	70	P	32	36.40 -0.6
NNT	74.48	86	eP	32	44.20 -7.5X
	S.D. = 1.2 on 127 of 171 obs.				
	* OCT 11, 1990 23h 51m 59.22 ± 1.77s				
	3.523 N ± 16.0km 123.950 E ± 17.5km				
	DEPTH = 421.6 ± 20.3 km				
	4.5mb (6 obs.)				
	CELEBES SEA (262)				
KKM	8.10	288	iPd	53	56.80 0.1
	0.5s	44.90nm		5.0mb	
MBL	24.86	189	iPc	56	47.80 -0.1
	0.3s	6.00nm		4.5mb	
WB5	25.41	157	eP	56	52.00 -0.9
NANU	27.20	197	eP	57	08.80 0.1
	0.3s	4.00nm		4.3mb	
WARB	29.65	175	iPc	57	31.10 1.0
	0.3s	4.00nm		4.3mb	
MEKA	30.41	190	eP	57	36.50 -0.3
	0.3s	16.00nm		4.9mb	
HYB	46.58	291	eP	59	49.00 -0.3
GBA	46.99	285	Pd	59	52.50 0.1
	0.4s	3.80nm		4.1mb	
DZM	48.71	123	iPc	00	05.00 0.3
	S.D. = 0.6 on 9 of 9 obs.				
	% OCT 12, 1990 01h 48m 35.27 ± 1.47s				
	39.911 N ± 20.6km 26.813 E ± 12.1km				
	DEPTH = 10.0km (geophysicist)				
	TURKEY (366)				
	MD 2.1 (ISK).				
EZN	0.38	257	iPg	48	43.20 0.0
		eSg	48	48.70	
KGT	0.66	35	ePg	48	48.50 0.1
MFT	0.94	22	ePg	48	53.50 0.2
BNT	0.96	62	iPg	48	53.90 0.4
		iSg	49	07.40	
CTT	1.74	44	ePn	49	05.00 -0.8
	S.D. = 0.6 on 5 of 5 obs.				
	OCT 12, 1990 01h 49m 19.50 ± 0.35s				
	29.076 N ± 7.8km 60.977 E ± 4.4km				
	DEPTH = 28.7km (3 depth phases)				
	4.8mb (16 obs.) 4.3Msz (5 obs.)				

SOUTHERN IRAN					(353)
Felt at Zahedan.					
QUE	5.32	77	iPc	50 40.70	1.5
	0.8s	134.33nm			5.5mb
			e(S)	51 46.00	
MAIO	7.31	351	eP	51 07.00	-0.2
			eS	53 15.00	
BRF	9.69	254	eP	51 31.20	-8.9
	0.4s	87.00nm			6.4mb
BBU	9.75	255	eP	51 32.60	-8.3
	0.4s	55.00nm			6.2mb
TEH	10.48	312	eP	51 48.00	-3.0
KER	12.92	298	eP	52 25.00	1.0
NDI	14.24	88	eP	52 39.00	-2.2
POO	15.76	129	eP	53 02.50	1.3
			iS	54 42.20	
KSH	16.13	46	P	53 06.20	0.3
HYB	19.86	122	eP	53 50.00	-1.3
	1.0s	40.00nm			4.7mb
GBA	21.68	132	P	54 10.00	0.0
DSI	22.22	283	eP	54 15.00	-0.2
PRNI	22.59	280	eP	54 18.00	-1.0
MBH	22.73	278	eP	54 20.00	-0.3
BBTK	25.53	302	eP	54 48.00	0.7
WMO	25.90	48	eP	54 50.50	-0.3
Z	22s	0.60um			4.1Msz
N	12s	0.80um			
			eS	59 18.50	
			sS	59 36.00	
MLR	32.02	310	eP	55 46.50	0.7
CMP	32.56	310	ePc	55 47.00	-3.3X
GTA	33.49	62	eP	55 58.20	-0.4
	Z	16s	0.40um		4.2MszX
	E	12s	0.30um		
			pP	56 08.60	37km
SKO	34.36	303	eP	56 04.00	-1.9
			i	56 05.50	5kmX
OHR	34.71	301	eP	56 07.20	-1.8
CHG	36.03	98	eP	56 20.90	0.5
LZH	36.56	68	P	56 20.50	-4.4X
	Z	20s	0.50um		4.3Msz
	E	12s	0.30um		
KMI	37.25	86	eP	56 30.00	-0.9
	1.2s	50.00nm			5.2mb
	Z	20s	0.50um		4.3Msz
			sP	56 38.50	
			eS	02 10.00	
KRA	37.32	316	ePd	56 31.90	1.0
	1.0s	37.00nm			5.2mb
			e	56 37.70	19km
CZI	38.13	297	P	56 37.80	0.0
MGR	38.61	299	P	56 41.50	-0.3
SGO	38.81	300	P	56 44.50	1.0
BSS	39.20	300	P	56 46.50	-0.3
DUI	39.51	301	P	56 51.00	1.6
NUR	39.73	333	iP	56 52.20	1.4
	0.6s	14.30nm			4.9mb
KSP	39.78	316	ePd	56 52.70	1.2
SUF	40.52	336	iP	56 57.90	0.6
	0.4s	5.00nm			4.6mb
XAN	40.86	70	eP	57 01.50	0.9
KHC	41.08	313	P	57 02.90	0.7
BRG	41.23	315	eP	56 55.40	-7.9X
			e	57 04.30	30km
BHG	41.29	310	eP	57 04.40	0.5
PGD	41.66	304	P	57 08.00	0.8
CLL	41.91	316	iP	57 08.90	0.0
	2.2s	71.00nm			5.0mb
SQTA	42.34	309	iPd	57 12.40	-0.3
	0.7s	3.80nm			4.2mb
TIY	43.36	65	eP	57 21.40	0.4
	Z	20s	0.90um		4.7Msz
	N	10s	0.50um		
SOD	43.49	342	iP	57 21.70	0.1
HFS	44.29	328	eP	57 27.70	-0.5
	0.7s	12.50nm			4.9mb
	Z	18s	0.27um		4.2Msz
			LR	15 05.00	
NB2	45.77	329	P	57 39.50	-0.5
	0.9s	8.40nm			4.7mb
BCAO	47.06	247	iPc	57 50.30	-0.5
	0.9s	19.00nm			5.1mb
LBF	47.25	309	eP	57 51.40	-0.5
	1.0s	7.00nm			4.6mb
TIA	47.26	66	eP	57 50.30	-1.8
SMF	47.34	308	eP	57 52.10	-0.5

SSF 1.0s 11.00nm 4.8mb
47.57 309 eP 57 56.20 1.8X
0.8s 4.70nm 4.6mb
LPO 49.23 306 eP 58 08.50 1.2
0.8s 8.05nm 4.8mb
LFF 49.54 306 eP 58 11.60 2.0X
0.8s 10.75nm 4.9mb
WB5 85.87 115 eP 01 58.00 -0.1
ASPA 87.55 119 eP 02 07.50 1.2
1.4s 8.20nm 4.8mb
S.D. = 1.1 on 46 of 53 obs.

* OCT 12, 1990 03h 09m 46.98 ± 0.96s
34.963 N ± 18.2km 47.794 E ± 9.7km
DEPTH = 33.0km (normol)
4.3mb (1 obs.)
WESTERN IRAN (347)

KER 0.83 223 eP 10 03.00 0.6
TEH 3.04 74 eP 10 35.00 1.0
MAIO 9.62 79 eP 12 05.00 -1.3
CMP 20.16 308 ePc 14 28.00 6.8X
SKO 21.74 297 iP 14 38.00 0.7
OHR 22.08 294 eP 14 41.00 0.2
CZI 25.54 289 P 15 11.70 -2.5
NUR 29.61 337 eP 15 46.00 -5.0X
HFS 33.46 329 eP 16 26.00 1.2
0.4s 1.60nm 4.3mb
Z 18s 0.09um 3.5Msz
LR 31 14.00
S.D. = 1.7 on 7 of 9 obs.

* OCT 12, 1990 03h 20m 56.00 ± 1.97s
14.826 N ± 19.6km 97.996 W ± 11.4km
DEPTH = 33.0km (normol)
4.5mb (1 obs.)
OFF COAST OF OAXACA, MEXICO (67)

OXX 2.56 28 iP 21 37.66 1.5
iS 22 07.09
ACX 2.71 319 eP 21 37.50 -0.7
iS 22 08.69
III 3.80 338 eP 21 54.22 0.4
iS 22 36.88
IIT 4.18 356 eP 21 59.51 0.2
(S) 22 43.92
PPM 4.26 352 iP 21 58.64 -2.0
iS 22 47.57
EVV 4.41 35 (P) 22 08.94 6.5X
UNM 4.62 346 (P) 22 14.00 8.4X
CRX 4.83 341 (P) 22 24.00 15.4X
LVVM 5.10 17 (P) 22 11.50 -0.7
(S) 23 06.50
IIJ 5.16 341 (P) 22 13.00 -0.4
(S) 23 11.00
SCX 5.50 69 (P) 22 37.00 19.2X
TPX 5.55 88 (P) 22 18.00 -0.4
MRX 5.73 328 eP 22 22.50 1.5
TUL 21.09 5 eP 25 28.70 -11.3X
1.0s 4.70nm
e 25 45.20
ALQ 21.43 341 eP 25 43.30 -0.4
2.0s 44.12nm 4.5mb
ANMO 21.43 341 P 25 44.00 0.3
ACO 21.81 358 e(P) 25 48.00 0.8
ZOBO 42.72 135 (P) 29 14.00 21.4X
Z 16s 0.20um 4.1Msz
LR 44 36.00
CCH 44.85 134 (P) 29 35.00 25.4X
S.D. = 1.1 on 12 of 19 obs.

? OCT 12, 1990 04h 56m 51.82 ± 2.58s
21.651 S ± 43.9km 179.074 W ± 26.3km
DEPTH = 576.2 ± 22.6 km
4.3mb (5 obs.)
FIJI ISLANDS REGION (181)

SGE 4.93 324 iPc 58 23.10 -0.3
DZM 13.45 266 iPc 59 46.10 0.9
ASPA 43.29 258 iPd 04 05.60 0.3
0.5s 7.30nm 4.5mb
iS 09 50.70
WB5 43.45 264 eP 04 06.00 -0.5
WARB 49.54 254 iPc 04 52.50 -0.1
0.3s 1.00nm 3.8mb
MBL 56.54 258 eP 05 41.00 -1.5
NANU 60.14 256 iPc 06 06.70 0.1

0.4s 7.00nm 4.3mb
PRS 79.34 44 eP 07 59.60 0.0
PRI 79.68 44 eP 08 03.10 1.6
FRI 80.81 44 ePc 08 07.20 0.1
CMB 80.98 43 ePc 08 08.10 0.0
WDC 81.20 40 iPc 08 09.60 0.5
ORV 81.20 41 eP 08 09.30 0.2
MIN 81.62 41 ePc 08 11.10 -0.3
PNT 88.17 34 eP 08 43.00 0.3
0.8s 13.00nm 4.8mb
ALQ 88.90 52 eP 08 45.90 -0.8
1.0s 4.00nm 4.3mb

ANMO 88.90 52 P 08 46.50 -0.2
FBA 89.58 13 P 08 47.00 -1.9
CHG 89.69 290 eP 08 52.20 1.8
NUR 137.75 343 ePKP 15 11.00 -1.1
NB2 139.99 352 PKP 15 08.00 -8.2X
0.6s 1.60nm
HFS 140.50 350 ePKP 15 08.60 -8.5X
0.5s 2.80nm
EKA 146.23 4 PKP 15 28.00 1.1
0.8s 12.10nm
KSP 148.47 341 iPKPd 15 34.60 4.0X
SPC 148.52 335 ePKP 15 35.20 4.2X
e 39 03.60
CLL 148.93 345 iPKPd 15 35.50 4.2X
1.0s 23.00nm
e 15 41.00
BRG 149.10 344 iPKP 15 36.20 4.6X
1.2s 22.00nm
WTS 149.37 353 ePKP 15 37.00 5.1X
1.0s 38.00nm
PRU 149.74 342 PKPd 15 37.70 5.1X
0.8s 12.40nm
MOX 149.87 346 ePKP 15 38.00 5.2X
ZST 150.51 338 ePKP 15 39.30 5.5X
e 39 01.80
ENN 150.68 354 ePKP 15 40.00 6.1X
0.8s 17.00nm
e 15 49.00
KHC 150.79 343 ePKP 15 40.20 6.0X
ABH 151.34 351 ePKP 15 42.14 7.1X
CDF 152.82 351 ePKP 15 44.40 7.2X
0.6s 3.60nm
FLN 152.92 2 ePKP 15 44.10 6.9X
0.4s 4.60nm
Z 20s 0.08um 4.5Msz
LDF 153.10 2 ePKP 15 44.60 7.1X
0.4s 2.85nm
GRR 153.28 3 ePKP 15 45.20 7.5X
0.6s 5.40nm
LPF 153.63 3 ePKP 15 46.00 7.8X
0.5s 4.35nm
MFF 155.09 2 ePKP 15 49.00 8.8X
BCAO 155.82 227 iPKPc 15 42.00 -0.2
0.6s 6.00nm
ic 16 14.00
S.D. = 1.0 on 22 of 41 obs.

* OCT 12, 1990 05h 02m 18.10s
45.238 N 112.723 W
DEPTH = 7.1km
MONTANA (456)
<BUT>. ML 3.2 (BUT). Felt at
Dillon.

MCMT 0.42 192 iPc 02 26.00 -0.6
BGMT 0.48 90 iPc 02 27.10 -0.8
HBMT 0.56 8 iPc 02 28.80 -0.6
LRM 0.61 18 iPc 02 29.80 -0.7
BUT 0.78 8 eP 02 33.00 -0.7
iS 02 43.90
LTMT 0.83 148 ePc 02 33.90 -0.8
MEMT 1.29 73 eP 02 41.70 -0.7
SXM 1.40 49 eP 02 43.80 -0.4
HPI 1.55 190 eP 02 46.50 0.1
HRY 1.60 23 ePn 02 46.30 -0.7
NEW 4.28 317 e(P) 03 25.00 -0.1
11 obs. associated

? OCT 12, 1990 05h 31m 12.65 ± 3.88s
15.347 S ± 53.5km 72.558 W ± 29.8km
DEPTH = 149.3 ± 21.4 km
SOUTHERN PERU (117)

ARE 1.51 137 iPd 31 43.00 0.1
iS 32 03.50

ZOBO 4.37 103 iPc 32 17.90 -1.1
S 33 06.00
LPB 4.45 106 iPc 32 20.00 0.0
1.0s 120.00nm
i 33 12.00
CNCB 4.64 109 iPc 32 22.80 0.2
i 33 41.00
CCH 6.48 109 P 32 48.30 1.1
SIV 11.08 95 Pc 33 43.60 -4.5X
PPD 21.18 111 eP 35 46.70 -0.9
BAO 23.67 94 eP 36 12.50 0.5
KIC 70.54 77 P 42 13.80 0.1
S.D. = 0.9 on 8 of 9 obs.

OCT 12, 1990 05h 34m 28.17 ± 0.38s
27.775 N ± 6.9km 130.771 E ± 5.1km
DEPTH = 33.0km (normol)
5.1mb (19 obs.)
RYUKYU ISLANDS (238)

SHK 6.93 13 eP 36 09.10 -0.9
SSE 8.99 294 Pd 36 37.50 -1.2
1.2s 33.00nm 5.4mb
Z 16s 1.30um
N 11s 2.80um
pP 36 45.20
sP 36 51.00
S 38 30.00

MAT 10.77 34 (P) 37 02.00 -1.2
0.8s 37.31nm 5.7mb
eS 39 04.00
NJ2 11.18 295 Pc 37 09.50 0.8
Z 14s 0.70um
N 12s 2.40um
E 10s 0.90um
pP 37 15.80
TIA 14.30 309 eP 37 50.50 0.2
Z 14s 1.20um
N 12s 1.00um
E 12s 0.40um
eS 40 35.00

WHN 14.61 285 Pd 37 57.00 2.7
Z 14s 1.20um
N 15s 2.30um
eS 40 33.00
SNY 15.20 339 Pc 38 02.00 0.8
Z 13s 2.10um
N 13s 1.20um
E 13s 1.00um
S 40 53.00

CN2 16.56 346 P 38 21.50 2.2
1.0s 60.00nm 4.7mb
Z 15s 2.10um 3.8Msz
N 13s 1.30um
E 13s 0.30um
epP 38 30.00
eS 41 23.00

MDJ 16.83 357 eP 38 21.00 -1.8
BJI 17.19 319 eP 38 28.00 0.7
1.5s 120.00nm 4.8mb
Z 15s 1.46um
N 14s 1.28um
eS 41 40.00
TIY 18.31 307 Pc 38 41.50 0.2
Z 14s 2.50um
N 12s 1.20um
pP 38 53.50
sP 39 00.00

GUMD 19.29 134 eP 38 52.00 -1.2
XAN 19.74 294 iPc 38 56.50 -1.7
1.2s 200.00nm 5.3mb
N 13s 1.10um
pP 39 10.00 65kmX
S 42 37.00

HMC 20.48 314 P 39 05.00 -0.9
Z 24s 0.70um 3.9Msz
N 13s 0.40um
E 13s 0.70um
S 42 54.00
sS 43 10.00

GIZ 21.06 250 eP 39 12.70 0.8
N 14s 1.33um
BTO 21.34 312 eP 39 13.00 -1.7
N 14s 0.60um
E 14s 0.70um
PP 39 39.00
GYA 21.49 272 P 39 15.80 -0.5

12d 05h

Z	14s	0.70um	4.2MsZx	38.183 N ± 3.3km	23.148 E ± 2.4km	eSn	38 40.00		
N	12s	1.20um		DEPTH = 10.0km (geophysicist)		CSi	5.58 289 P	37 40.60 0.0	
E	12s	0.90um		4.1mb (15 obs.)		eSn	38 41.20		
CD2	23.73	284 eP	39 36.70 -1.6	GREECE (364)		CZi	5.58 283 P	37 41.10 0.5	
	1.1s	60.00nm	5.0mb	ML 4.0 (THE), 4.0 (TTG), 3.9		NKY	5.60 327 ePn	37 41.00 0.0	
	Z	14s	2.69um 4.9MsZx	(ATH).		eSn	38 42.00		
		eS	43 44.00			HRT	5.69 60 eP	37 42.00 -0.2	
LZH	24.25	297 Pc	39 43.00 -0.4	ATH	0.50 115 ePg	36 26.70 1.1	PLE	5.88 332 ePn	37 45.00 0.2
	1.5s	85.00nm	5.1mb	AGG	1.05 323 ePc	36 35.58 0.2	BCK	5.94 95 eP	37 49.00 3.4X
Z	16s	1.00um	4.4MsZx		eS	36 52.42	MGR	6.22 291 P	37 48.10 -1.4
N	11s	0.60um		NEO	1.12 3 ePb	36 37.00 0.4	SGO	6.52 294 P	37 53.20 -0.6
E	12s	0.80um		ITM	1.39 224 ePb	36 41.20 0.2	PZI	6.64 263 P	37 56.06 0.5
		pP	39 56.00 53kmX	VLI	1.47 187 ePb	36 41.60 -0.5	BSS	6.96 295 P	37 58.30 -1.6
		sP	40 01.50	LIT	1.98 345 iPc	36 50.01 0.6	CMP	7.22 11 ePc	38 01.00 -2.6
		PP	40 26.00	VLS	2.02 271 ePb	36 51.50 1.6	BZS	7.51 352 eP	38 04.00 -3.7X
KMI	25.22	270 eP	39 53.00 0.2	APE	2.19 120 ePn	36 52.60 0.0	DUI	7.53 300 P	38 07.90 -0.1
	1.5s	50.00nm	4.9mb	PLG	2.20 6 ePn	36 52.00 -0.6	MLR	7.59 15 eP	38 07.50 -1.5
	Z	14s	1.30um 4.6MsZx	KZN	2.37 334 ePn	36 55.80 0.6	RFI	7.72 297 P	38 12.07 1.5
		pP	40 04.50 45kmX	THE	2.45 357 ePc	36 56.50 0.4	SDI	7.98 299 P	38 13.50 -0.9
		eS	44 14.00	IGT	2.58 302 ePd	36 59.74 1.8	AZI	8.36 300 P	38 19.50 0.0
		sS	44 31.00	SOH	2.64 3 iPc	36 59.41 0.5	MNS	9.03 301 P	38 28.80 -0.1
GTA	28.14	302 eP	40 17.80 -1.7	PRK	2.66 66 ePn	37 01.00 1.8	ASS	9.35 305 P	38 32.00 -1.3
	1.0s	30.00nm	4.9mb	LSK	2.79 316 iPnd	37 03.20 2.1	ARV	9.38 308 P	38 32.00 -1.7
	Z	14s	1.50um 4.7MsZx	GRG	2.83 348 ePd	37 01.78 0.2	PTJ	9.38 328 eP	38 30.20 -3.5X
	E	14s	0.80um		iS	37 36.66	RIY	9.69 320 eP	38 34.10 -3.8X
		eS	45 06.00	VAM	2.90 163 ePn	37 02.00 -0.5	CEY	9.95 322 eP	38 38.00 -3.6X
CHG	30.49	260 eP	40 40.30 -0.2	FNA	2.94 333 iPc	37 03.98 0.9	eS	40 28.50	
	1.0s	17.25nm	4.8mb		eS	37 39.90	CRE	10.07 306 P	38 41.80 -1.4
WMQ	37.97	307 eP	41 39.60 -5.0X	SRS	2.95 7 ePc	37 03.14 -0.1	LJU	10.13 324 e(P)	38 40.50 -3.4X
	Z	16s	0.60um 4.5MsZx	SMG	2.95 98 ePn	37 03.00 -0.3	e(S)	40 33.50	
N	11s	0.50um		EZN	2.97 55 ePn	37 07.00 3.5X	TRI	10.26 320 e(Pn)	38 48.10 2.4
		pP	41 56.50 68kmX	SRN	2.98 306 iPn	37 05.10 1.5	i(Sn)	40 31.70	
ASPA	51.23	176 iPc	43 30.10 -0.7	KNT	2.98 356 iPc	37 04.41 0.7	SFI	10.27 307 P	38 45.00 -0.9
	1.3s	11.00nm	4.7mb		eS	37 41.93	PGD	10.33 307 P	38 45.00 -2.0
GBA	51.48	265 P	43 33.00 0.2	KEK	3.03 301 ePb	37 06.80 2.5X	VOY	10.42 322 eP	38 44.20 -3.9X
POO	52.75	273 iPc	43 41.80 -0.7	KBN	3.03 324 iPnd	37 06.10 1.7	eS	40 37.90	
KOD	52.92	262 eP	43 41.50 -2.5	IZM	3.24 85 ePn	37 08.50 1.0	FVI	11.37 321 P	38 59.00 -1.8
OUE	55.22	289 eP	44 01.70 1.1	MMB	3.43 7 iPc	37 10.00 -0.1	DSI	12.01 120 eP	39 06.00 -3.6X
SVW	58.22	33 eP	44 21.40 0.1	OHR	3.44 329 iPnc	37 11.10 0.8	KRA	12.09 350 eP	39 10.60 0.0
IMA	59.11	27 eP	44 27.20 -0.4		iSn	37 48.50	RMN	12.19 126 eP	39 07.00 -5.1X
	1.3s	25.60nm	5.2mb	RDO	3.49 31 ePn	37 10.00 -0.8	WATA	12.48 321 iP	39 13.80 -2.2
MAIO	59.80	298 eP	44 34.00 1.4	ALN	3.52 39 ePd	37 09.74 -1.5	0.5s	4.50nm	5.0mb
KDC	59.98	37 e(P)	44 32.40 -1.1	NPS	3.52 145 ePn	37 11.50 0.1	e	39 24.30	
DZM	60.36	142 iPc	44 35.90 -0.7	BERA	3.53 316 iP	37 13.60 2.2	e	41 26.70	
PMR	61.32	32 eP	44 41.20 -1.3	VLO	3.64 310 iPn	37 14.70 1.7	SOTA	12.58 320 iP	39 16.00 -1.4
	1.2s	35.50nm	5.4mb	KKB	3.68 359 iPc	37 19.00 5.4X	0.5s	6.95nm	5.1mb X
FBA	61.60	29 eP	44 43.90 -0.6	RZN	3.70 19 iPc	37 14.00 -0.1	i	39 17.20	
INK	66.57	24 eP	45 17.00 0.2	KDZ	3.88 26 eP	37 16.00 -0.4	i	39 27.10	
MBC	67.79	14 ePd	45 24.50 0.1	KGT	3.94 54 ePn	37 18.30 1.0	i(S)	41 23.30	
	1.0s	16.00nm	5.1mb	SKO	4.00 341 iPnc	37 18.50 0.3	i	41 28.80	
SOD	69.90	336 eP	45 35.00 -2.5		iPg	37 30.00	KHC	12.94 331 eP	39 20.50 -1.5
SUF	72.04	332 eP	45 50.00 -0.5		i	37 37.00	BRG	14.27 336 eP	39 55.00 15.5X
NUR	73.67	330 eP	45 58.00 -2.0		iSn	38 04.00	1.0s	11.00nm	
HFS	78.50	333 eP	46 26.30 -0.9		i	38 06.80	MOX	14.91 330 eP	40 06.00 18.1X
	1.0s	10.80nm	4.8mb		i	38 10.00	CLL	14.95 335 e(P)	39 55.00 6.6X
	Z	16s	0.15um 4.4MsZx		iSb	38 14.00	i	40 03.30	
		LR	17 35.00		i	38 18.00	BSF	15.34 314 eP	39 52.30 -1.3
NB2	78.92	334 P	46 29.20 -0.4	TIR	4.05 322 iPn	37 14.70 -4.1X	1.0s	12.00nm	4.2mb
	0.8s	7.40nm	4.7mb	MFT	4.12 50 ePn	37 19.40 -0.5	SMF	16.55 307 eP	40 12.70 3.6X
VRI	79.55	316 eP	46 35.00 1.7	KAP	4.16 128 ePn	37 21.00 0.5	0.8s	4.70nm	3.7mb
PNT	81.03	39 eP	46 41.00 -0.1	EDC	4.25 58 ePn	37 22.00 0.3	LBF	16.60 308 eP	40 13.70 3.9X
KRA	81.30	322 eP	46 43.40 1.0	BNT	4.29 58 ePn	37 23.80 1.4	0.8s	10.75nm	4.0mb
		e	46 56.90	LACI	4.35 324 ePn	37 24.30 1.3	LOR	16.80 309 eP	40 13.60 1.4
KSP	82.78	324 iP	46 51.70 1.5	VTS	4.40 1 iPd	37 25.00 1.0	1.0s	6.00nm	3.7mb
WDC	83.88	47 ePd	46 56.60 0.6	KKS	4.42 333 ePn	37 20.00 4.0X	Z	20s	0.17um 4.3MsZx
ZST	83.89	322 e(P)	46 58.00 2.1	DST	4.51 70 eP	37 24.60 -0.8	AVF	16.91 307 eP	40 16.50 2.8X
BRG	83.96	325 iP	46 57.00 0.8	LCI	4.57 300 P	37 24.80 -1.4	0.8s	6.70nm	3.8mb
	1.1s	18.00nm	5.1mb	SDA	4.74 325 ePn	37 30.00 1.3	SSF	16.93 308 eP	40 16.30 2.5X
		e	47 13.00	ULC	4.82 323 ePn	37 30.00 0.2	0.8s	4.05nm	3.6mb
CLL	84.16	326 iPd	46 58.00 0.8		eSn	38 22.50	DOU	17.81 318 P	40 27.60 2.8X
	1.5s	38.00nm	5.3mb	KHL	5.02 86 eP	37 33.70 1.0	0.5s	3.80nm	3.8mb
MIN	84.61	47 eP	46 59.90 0.0	PVY	5.03 332 ePn	37 34.00 1.2	MFF	19.10 304 eP	40 42.10 1.3
SKO	84.83	315 iP	47 02.00 1.3		eSn	38 30.00	0.8s	6.70nm	3.9mb
ORV	85.10	48 eP	47 02.50 0.4	CTT	5.04 52 eP	37 30.30 -2.6	LPF	20.14 307 eP	40 51.00 -1.4
KHC	85.21	324 P	47 04.20 1.7	TTG	5.18 326 ePn	37 35.00 0.2	0.8s	10.75nm	4.2mb
OHR	85.70	315 eP	47 05.00 -0.2		eSn	38 33.00	NUR	22.37 2 eP	41 17.00 2.1
FFC	86.19	28 iPc	47 08.20 0.9	BDV	5.26 322 ePn	37 35.00 -1.1	HFS	22.78 348 eP	41 17.60 -1.2
	1.1s	28.00nm	5.4mb		eSn	38 34.00	0.8s	7.10nm	4.2mb
CMB	86.65	48 ePd	47 10.70 0.8	GRI	5.32 279 P	37 37.18 0.3	Z	17s	0.08um 3.2MsZx
PRS	86.90	50 eP	47 12.00 0.9	ROI	5.32 287 P	37 36.70 -0.2	LR	48 29.00	
LRM	87.01	39 eP	47 13.30 1.5		eSn	38 37.40	NB2	24.07 346 P	41 28.60 -3.0X
PRI	87.49	50 ePd	47 15.50 1.4	IZI	5.36 64 eP	37 36.80 -0.7	0.8s	3.70nm	4.0mb
FRI	87.67	49 eP	47 15.20 0.4	YLV	5.38 62 iP	37 36.80 -1.0	SUF	24.63 3 eP	41 37.00 0.0
TNP	88.70	47 P	47 21.00 1.0	TDS	5.51 288 P	37 40.50 0.9	EKA	24.65 323 P	41 38.00 0.8
				ALT	5.52 79 iP	37 40.70 0.8	0.6s	6.60nm	4.5mb
				ORI	5.54 292 P	37 39.40 -0.6	BCAO	33.85 188 iPc	42 59.60 -0.7
				HCY	5.55 322 ePn	37 38.60 -1.5	0.4s	7.00nm	4.9mb
S.D. = 1.2 on 61 of 62 obs.									
OCT	12. 1990	05h 36m	15.50+ 0.29s						

R Y D 8.12 191 eP 32 30.50 -0.7

12d 13h

AFIF 9.71 209 eP 32 53.00 -0.3
 MAIO 9.87 66 eP 33 01.00 5.6X
 VRI 21.18 315 eP 35 19.00 2.4
 MLR 21.47 313 eP 35 20.00 0.4
 CMP 21.93 312 ePd 35 24.00 -0.1
 SKO 23.22 301 iP 35 37.20 0.5
 OHR 23.49 299 eP 35 39.80 0.4
 1.0s 39.00nm 4.8mb

CZI 26.77 293 P 36 09.80 -0.5
 KHC 30.63 313 eP 36 48.00 3.1X
 HFS 35.63 331 eP 37 25.90 -2.1
 0.6s 8.00nm 4.8mb

NB2 37.15 331 P 37 38.60 -2.3
 0.6s 1.50nm 4.1mb
 BCAO 39.59 231 iPd 38 03.00 1.2
 0.4s 3.00nm 4.5mb

CHG 47.22 94 eP 39 04.10 0.7
 S.D. = 1.5 on 13 of 16 obs.

% OCT 12, 1990 14h 06m 05.18 ± 0.88s
 34.117 N ± 7.2km 27.596 E ± 9.1km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 2.5 (ISK).

IZM 0.76 200 ePg 06 20.00 -0.1
 eSg 06 32.50
 DST 0.94 58 iPn 06 23.40 0.3
 EZN 1.21 306 ePn 06 28.00 0.3
 EDC 1.25 9 ePn 06 27.90 -0.4
 BNT 1.26 11 ePn 06 28.60 0.0
 S.D. = 0.4 on 5 of 5 obs.

OCT 12, 1990 14h 26m 02.10 ± 0.81s
 34.762 N ± 5.2km 23.144 E ± 3.5km
 DEPTH = 28.0 ± 5.3 km
 4.4mb (24 obs.)

CRETE (370)
 MD 4.3 (HLW). ML 4.2 (THE). 4.2 (ATH).

VAM 1.08 53 ePn 26 20.00 -1.4
 VLI 1.96 355 iPnd 26 36.80 2.8
 NPS 2.09 75 iPbc 26 39.50 3.6X
 ITM 2.61 338 ePn 26 45.50 2.2
 APE 3.01 39 ePn 26 51.50 2.5
 ATH 3.24 8 iPnd 26 54.30 2.2
 KAP 3.39 75 ePn 26 55.20 0.7
 VLS 3.98 330 iPnc 27 03.00 0.2
 SMG 4.19 44 ePn 27 08.00 2.3
 EVR 4.28 346 ePn 27 10.00 2.9
 AGG 4.30 352 ePd 27 09.24 1.9
 ARG 4.32 69 ePn 27 08.40 0.9
 NEO 4.54 1 ePn 27 11.60 0.9
 IZM 4.91 41 eP 27 21.50 5.5X
 PRK 5.13 28 ePn 27 20.50 1.5
 IGT 5.26 336 ePc 27 20.56 -0.4
 LIT 5.35 355 ePc 27 21.92 -0.3
 KSL 5.43 74 ePn 27 22.70 -0.5
 PLG 5.61 2 iPnc 27 25.20 -0.6
 KEK 5.62 333 ePn 27 27.60 1.7
 KZN 5.64 349 ePn 27 26.70 0.4
 EZN 5.65 26 eP 27 25.00 -1.4
 SRN 5.69 335 ePn 27 26.00 -0.9
 LSK 5.75 340 ePn 27 28.10 0.3
 SOH 6.05 2 ePd 27 31.76 -0.3
 FNA 6.17 347 ePd 27 32.96 -0.8
 GRG 6.21 355 ePc 27 33.12 -1.2
 KHL 6.24 53 iP 27 35.30 0.4
 SRS 6.35 3 ePc 27 35.88 -0.4
 KNT 6.39 358 ePc 27 36.72 -0.1
 KGT 6.57 29 iP 27 38.10 -1.2
 BCK 6.60 64 eP 27 39.00 -0.9
 OHR 6.60 344 iPnc 27 38.70 -1.2
 RDO 6.65 16 ePn 27 40.80 0.4
 MMB 6.83 4 ePc 27 42.00 -1.0
 LCI 6.92 325 P 27 41.50 -2.7
 RZN 7.02 10 iPc 27 46.00 0.1
 ATN 7.06 301 P 27 46.90 0.7
 MEU 7.06 292 P 27 46.70 0.4
 TIR 7.06 340 ePn 27 45.50 -0.7
 KKB 7.09 360 eP 27 46.00 -0.7
 KOD 7.11 14 eP 27 47.00 0.2
 ROI 7.11 314 P 27 47.00 0.0
 CZI 7.16 310 P 27 46.40 -1.1
 TDS 7.30 314 P 27 49.50 -0.1
 SKO 7.32 350 iPn 27 47.70 -2.2

LACI 7.38 340 ePn 27 50.00 -0.6
 CSI 7.41 314 P 27 49.90 -1.2
 PLD 7.43 9 eP 27 52.00 0.6
 ORI 7.51 317 P 27 52.00 -0.5
 KKS 7.61 344 ePn 27 53.00 -0.8
 SDA 7.79 340 ePn 27 55.20 -1.1
 PGB 7.82 6 eP 27 56.00 -0.9
 VTS 7.82 0 iP 27 58.00 1.0
 MGR 8.07 314 P 27 59.00 -1.4
 CSS 8.38 86 eP 28 03.00 -1.6
 HLW 8.49 123 eP 28 04.40 -1.7
 eS 29 31.00

SGO 8.49 315 P 28 05.00 -1.1
 DUI 9.70 318 P 28 22.00 -0.9
 RMN 10.57 111 eP 28 29.00 -5.9X
 CMP 10.59 7 ePc 28 36.00 0.9
 DSI 10.74 104 eP 28 31.50 -5.6X
 MKT 10.79 107 eP 28 32.50 -5.4X
 eS 30 27.00

MLR 10.93 10 eP 28 39.00 -0.8
 MBH 11.11 113 eP 28 37.00 -5.1X
 VRI 11.42 13 eP 28 46.00 -0.4
 PTJ 12.39 336 eP 28 55.00 -4.5X
 CEY 12.82 331 eP 29 03.60 -1.5
 e(S) 31 22.50

LJU 13.03 332 eP 29 26.50 18.6X
 e 31 33.50
 TRI 13.06 330 e(Pn) 29 08.00 -0.3
 i(Sn) 31 29.50
 VOY 13.27 331 eP 29 08.00 -2.4
 eS 31 31.40

ZST 14.16 343 eP 29 35.30 12.6X
 SPC 14.57 352 eP 29 34.70 6.3X
 SOTA 15.34 328 iP 29 43.70 5.4X
 0.8s 12.20nm 4.2mb
 KRA 15.46 352 eP 29 43.80 4.1X
 KHC 16.00 337 eP 29 46.50 -0.2
 i 29 51.40

WET 16.25 335 iPc 29 54.00 4.1X
 1.0s 30.00nm 4.4mb
 PRU 16.47 340 eP 29 53.00 1.2
 e 29 55.40

KSP 16.83 345 iPd 30 00.50 3.2X
 1.0s 20.00nm 4.2mb
 i 30 04.80

GRF 17.30 333 eP 30 05.20 2.1
 Z 19s 0.30um
 BRG 17.44 340 iP 30 06.20 1.5
 1.4s 24.00nm 4.1mb
 i 30 16.00

BSF 17.88 322 eP 30 09.90 -0.5
 0.8s 8.05nm 3.9mb
 MOX 17.96 336 eP 30 12.00 0.8
 CDF 18.03 324 eP 30 10.80 -1.4
 0.7s 4.40nm 3.7mb

CLL 18.09 339 iP 30 13.60 0.7
 0.7s 15.00nm 4.2mb
 e 30 27.00

HAU 18.22 322 eP 30 14.10 -0.4
 0.8s 9.40nm 4.0mb
 Z 20s 0.40um

LBF 18.89 316 eP 30 23.30 0.5
 0.6s 2.70nm 3.6mb
 SSF 19.20 316 eP 30 26.70 0.3
 0.7s 4.40nm 3.8mb

WLF 19.43 325 Pc 30 27.40 -1.6
 ENN 20.31 327 eP 30 40.00 1.7
 0.9s 30.00nm 4.6mb

DOU 20.46 324 P 30 39.80 -0.2
 0.9s 80.00nm 5.1mb
 WTS 20.84 331 eP 30 44.00 0.2
 0.7s 14.00nm 4.5mb

MFF 21.17 311 eP 30 49.20 1.9
 0.8s 8.05nm 4.2mb
 LDF 22.09 316 eP 30 56.90 0.4
 0.6s 9.00nm 4.4mb

TOL 22.18 291 eP 31 04.00 6.5X
 LPF 22.36 314 eP 30 59.90 0.8
 0.8s 10.75nm 4.4mb

FLN 22.38 316 eP 30 59.90 0.5
 0.8s 16.10nm 4.5mb
 Z 20s 0.10um 3.2msz
 NUR 25.78 2 eP 31 30.00 -2.0
 HFS 26.12 349 eP 31 34.00 -1.2
 0.5s 20.40nm 5.0mb

Z 17s 0.09um 3.4msz
 LR 42 26.00

NB2 27.39 347 P 31 45.80 -1.1
 0.7s 4.90nm 4.3mb
 EKA 27.44 327 P 31 48.00 0.8
 0.9s 10.90nm 4.5mb

BCAO 30.48 189 iPd 32 16.00 1.1
 0.6s 8.00nm 4.7mb
 LKO 36.33 233 P 33 07.28 1.7

NDI 45.94 82 eP 34 25.00 0.7
 WMO 49.63 59 P 34 53.50 0.4
 GBA 53.14 99 P 35 20.00 0.2

KOD 55.05 103 eP 35 34.50 0.3
 GTA 59.61 61 eP 36 05.00 -0.9
 1.2s 10.00nm 4.8mb

CD2 66.08 68 eP 36 48.00 -0.8
 CHG 68.08 82 eP 37 02.00 0.3
 TIY 69.28 58 P 37 08.20 -0.7

GYA 70.44 71 P 37 16.00 -0.2
 BJI 70.71 54 eP 37 16.50 -1.0
 1.2s 8.00nm 4.7mb

CN2 74.67 47 eP 37 40.00 -0.7
 FFC 79.19 331 eP 38 11.00 5.3X
 0.8s 10.00nm 4.9mb

FBA 80.41 356 P 38 14.20 2.1
 S.D. = 1.2 on 100 of 116 obs.

? OCT 12, 1990 14h 35m 53.62 ± 1.14s
 31.423 S ± 34.4km 68.836 W ± 20.6km
 DEPTH = 100.0km (geophysicist)

SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.07 154 eP 36 08.30 0.2
 e(S) 36 18.70
 RTLL 0.33 74 iPc 36 08.50 -0.1
 eS 36 19.90

RTCV 0.51 150 eP 36 09.70 0.0
 S 36 21.50
 RTBS 0.58 246 ePc 36 10.10 -0.1
 S.D. = 0.2 on 4 of 4 obs.

* OCT 12, 1990 16h 04m 03.05 ± 0.53s
 55.496 N ± 24.1km 35.048 W ± 7.3km
 DEPTH = 10.0km (geophysicist)

4.3mb (8 obs.)
 NORTH ATLANTIC OCEAN (402)

GRR 22.07 94 eP 09 00.40 1.0
 0.8s 8.05nm 4.2mb
 LDF 22.38 93 eP 09 03.50 1.0
 1.0s 12.00nm 4.3mb

TCF 24.97 96 eP 09 26.90 -0.9
 1.0s 6.00nm 4.2mb
 MAF 25.21 96 eP 09 28.80 -1.2
 1.2s 14.90nm 4.6mb

SSF 25.26 93 eP 09 31.00 0.5
 1.0s 8.00nm 4.4mb
 AVF 25.33 94 eP 09 31.50 0.4
 0.8s 5.35nm 4.3mb

TOL 25.78 114 eP 09 36.00 0.6
 MOX 28.02 80 eP 09 54.00 -1.9
 KHC 29.88 82 eP 10 13.10 0.5

MBC 35.72 336 eP 11 04.00 1.0
 1.0s 6.00nm 4.4mb
 FVM 40.59 268 P 11 44.60 0.5

GLD 47.74 281 P 12 42.40 0.5
 ANMO 51.84 278 P 13 13.80 0.4
 ALO 51.84 278 eP 13 13.00 -0.4
 1.0s 2.50nm 4.1mb

TNP 55.51 288 (P) 13 38.80 -1.7
 S.D. = 1.1 on 15 of 15 obs.

& OCT 12, 1990 16h 07m 20.00s
 37.063 N 121.907 W

DEPTH = 15.0km
 CENTRAL CALIFORNIA (39)

<BRK>. ML 3.0 (BRK). Felt at
 Sonto Cruz.

GCC 0.08 245 iPd 07 22.50 -0.7
 MHC 0.35 37 iPc 07 27.20 -0.3
 ARN 0.41 46 iPd 07 28.00 -0.5
 SAO 0.47 129 iPd 07 28.20 -1.3
 PCC 0.58 319 iPd 07 30.70 -0.6
 PRS 0.85 149 ePd 07 35.10 -0.8
 eS 07 46.60

BKS 0.85 342 iPc 07 35.80 -0.2

BRK 0.86 341 eP 07 35.50 -0.5
 07 47.20
 LLA 0.89 120 ePd 07 35.80 -0.9
 ZSP 0.92 343 eP 07 37.20 0.0
 07 51.80
 PRI 1.36 132 ePc 07 43.80 -0.6
 CMB 1.55 51 ePc 07 47.20 0.1
 NWRM 1.59 331 eP 07 49.00 1.3
 PHAM 1.73 135 eP 07 48.20 -1.4
 FRI 1.76 92 eP 07 48.10 -2.0
 BCH 2.39 141 eP 07 55.70 -3.5
 ORV 2.51 7 eP 08 01.50 0.6
 TNP 3.86 73 e(P) 08 19.50 -0.8
 18 obs. associated

OCT 12, 1990 16h 14m 25.50 ± 0.39s
 13.377 N ± 7.9km 87.560 W ± 7.5km
 DEPTH = 207.5km (4 depth phases)
 4.5mb (10 obs.)

HONDURAS (72)

DVD 7.02 134 iPd 16 07.00 0.2
 UPA 9.00 118 iPc 16 32.50 -0.2
 0.8s 29.85nm 4.6mb
 SDV 17.19 103 eP 18 15.40 0.2
 TOV 17.77 100 eP 18 21.40 0.4
 FISA 17.93 95 iPc 18 23.00 0.2
 MORO 18.98 95 iPd 18 33.50 -0.2
 CEOS 19.34 101 iPc 18 36.50 -0.9
 PLAV 19.95 98 eP 18 44.00 0.3
 GUAC 20.11 97 eP 18 46.00 0.8
 CAR 20.39 96 eP 18 48.00 0.1
 LLAV 20.51 96 iPc 18 49.50 0.4
 OLLA 20.60 97 iPd 18 50.00 0.0
 CUM 23.07 95 iP 19 15.00 1.1
 MEO 23.53 337 iPc 19 18.30 0.0
 SIO 23.63 342 e(P) 19 19.00 -0.2
 TUL 23.63 343 eP 19 19.00 -0.2
 1.5s 258.40nm 5.6mb X
 ACO 25.44 338 ePd 19 29.30 39kmX
 1.0s 113.80nm 5.5mb
 ALO 27.44 325 eP 19 54.00 -0.3
 1.3s 10.58nm 4.4mb
 ANMO 27.44 325 pP 19 54.00 -0.3
 20 35.80 209km
 ZOBO 35.17 146 P 21 01.00 -1.2
 LPB 35.40 147 P 21 04.60 0.7
 21 36.00 141kmX
 CNCB 35.69 147 P 21 06.00 -0.5
 21 37.00 139kmX
 TNP 36.04 318 (P) 21 09.00 0.1
 21 50.20 191kmX
 CCH 37.16 145 P 21 20.50 1.9
 LRM 38.59 332 eP 21 30.20 0.1
 22 14.40 209km
 SIV 39.21 137 P 21 32.50 -2.8
 FFC 42.77 348 iPc 22 03.90 -0.1
 0.6s 15.00nm 4.7mb
 FFC 42.77 348 eP 22 05.00 1.0
 0.8s 23.00nm 4.7mb
 SCH 44.43 17 ePc 22 16.50 -0.8
 0.6s 23.00nm 4.8mb
 PNT 44.47 330 eP 22 18.00 0.3
 0.7s 9.00nm 4.3mb
 BAO 48.61 125 eP 22 44.50 -6.0X
 PPD 50.02 134 eP 22 56.70 -4.4X
 22 58.80 7kmX
 23 21.20
 SOB1 51.48 113 eP 23 08.30 -3.9X
 23 15.40 24kmX
 VAO 53.73 132 (P) 23 25.00 -3.7X
 MBC 65.09 352 eP 24 44.50 -0.9
 1.0s 6.00nm 4.4mb
 LKO 80.10 82 P 26 12.78 -1.5
 NB2 82.61 29 P 26 28.00 1.5
 1.3s 11.30nm 4.4mb
 HFS 84.03 30 eP 26 32.50 -1.1
 0.7s 2.00nm 4.0mb
 KHC 87.14 40 eP 26 47.50 -1.7
 STK 131.48 239 ePKP 33 15.50 0.2
 1.3s 8.00nm
 ASPA 139.51 249 iPKPd 33 30.50 -0.2
 1.2s 12.70nm
 34 22.10

WARB 145.50 243 ePKP 33 41.00 0.0
 0.4s 2.00nm
 CHG 147.38 349 ePKP 33 45.00 0.8
 GBA 149.35 30 PKP 33 50.00 2.7
 S.D. = 1.0 on 40 of 44 obs.
 & OCT 12, 1990 17h 30m 00.08s
 37.248 N 116.494 W
 DEPTH = 0.0km
 5.6mb (75 obs.) 4.2Msz (5 obs.)
 SOUTHERN NEVADA (41)
 <DOE>. ML 5.4 (BRK). 37' 14'
 52.31" N., 116' 29' 39.16" W.,
 Surface Elev. 1898 m., Depth of
 Burial 600 m., Shot Time
 173000.00, "TENABO," Nevado Test
 Site (Dept. of Energy). Felt at
 Las Vegas.

TNP 1.01 326 iPc 30 20.10 -0.2
 CLC 1.68 212 iPc 30 30.60 -0.4
 MNA 1.77 312 iPc 30 32.30 0.0
 GSC 1.96 187 iPc 30 34.40 -0.6
 KVN 2.20 325 iPc 30 38.40 -0.2
 FRI 2.58 265 iPc 30 43.60 -0.2
 SBB 2.77 203 iPc 30 45.90 -0.8
 PKEM 3.14 249 iPc 30 52.50 0.7
 TPC 3.16 173 iPc 30 51.10 -0.9
 CMB 3.19 285 iPc 30 51.90 -0.6
 MWC 3.27 203 iPc 30 53.60 -0.3
 PEC 3.39 189 iPc 30 55.20 -0.3
 PRI 3.53 253 iPc 30 56.80 -0.6
 BCH 3.56 236 iPc 30 57.50 -0.3
 HAY 3.60 169 eP 30 56.90 -1.4
 LLA 3.62 261 ePc 30 57.40 -1.2
 PLM 3.90 185 iPc 31 02.50 -0.3
 SYP 3.92 227 ePc 31 02.90 -0.1
 ARN 4.02 273 eP 31 03.70 -0.6
 PRS 4.02 258 iPc 31 03.40 -0.9
 MHC 4.11 273 iPc 31 05.30 -0.3
 CIS 4.14 203 ePc 31 05.10 -0.9
 BLP 4.15 231 eP 31 05.90 -0.2
 CPE 4.39 187 iPc 31 08.60 -0.9
 GLA 4.40 161 iPc 31 08.60 -1.2
 ORV 4.56 302 iPc 31 10.90 -1.0
 BAR 4.56 182 ePc 31 11.00 -1.0
 SCI 4.58 202 ePc 31 11.40 -0.8
 IKP 4.60 176 eP 31 11.60 -1.0
 BKS 4.60 280 iPnc 31 11.70 -0.9
 ePgc 31 22.80
 BRK 4.62 280 ePc 31 11.80 -1.0
 ZSP 4.63 280 eP 31 12.00 -0.9
 PCC 4.70 275 ePc 31 12.50 -1.4
 MIN 5.05 309 iPc 31 18.30 -0.8
 DAU 5.17 51 eP 31 21.00 0.1
 WDC 5.77 307 iPc 31 27.80 -1.3
 FHC 6.83 304 e(P) 31 43.30 -0.7
 BW06 7.67 42 iPc 31 55.80 -0.2
 ALO 8.44 103 ePc 32 04.30 -2.5
 ANMO 8.44 103 eP 32 04.70 -2.1
 GOL 9.06 71 eP 32 15.00 -0.4
 LRM 9.09 18 eP 32 17.10 1.4
 GLD 9.18 71 eP 32 17.20 0.2
 NEW 11.02 358 eP 32 42.70 0.6
 RSSD 11.68 50 eP 32 48.30 -3.0
 PNT 12.27 350 eP 33 00.00 0.9
 1.0s 240.00nm 6.5mb
 PGC 12.48 338 eP 33 05.00 3.3
 0.9s 192.00nm 6.4mb
 SES 13.71 15 ePc 33 17.60 -0.6
 1.3s 478.00nm 6.3mb
 pP 33 26.00
 ACO 13.88 87 eP 33 20.90 0.4
 1.0s 92.70nm 5.6mb
 i 33 30.00
 e 34 26.10
 MEO 14.70 94 iPc 33 32.20 0.9
 EDM 16.12 7 ePc 33 48.50 -1.1
 SIO 16.30 89 eP 33 52.90 0.9
 BIX 16.63 88 iP 33 56.50 0.4
 TUL 16.68 88 eP 33 56.70 -0.1
 1.0s 128.30nm 5.0mb
 Z 19s 1.20um 5.4Msz
 LR 39 40.00
 FFC 20.11 25 iPc 34 36.10 -2.0
 1.0s 538.00nm 5.8mb
 FVM 20.65 80 ePc 34 42.90 -1.0

SIT 23.45 334 eP 35 13.40 1.8
 PPM 23.93 134 (P) 35 20.50 3.3
 RSCP 24.89 84 eP 35 25.60 -0.3
 YKA 25.30 2 eP 35 27.50 -2.0
 0.9s 57.60nm 5.3mb
 CLE 27.24 70 iP 35 45.60 -2.1
 BLA 28.62 79 eP 35 59.50 -0.7
 1.0s 180.00nm 5.9mb
 JSC 28.65 85 eP 35 59.20 -1.2
 LHS 28.95 85 eP 36 01.50 -1.7
 MID 29.33 329 e(P) 36 04.40 -1.9
 TOA 30.91 333 ePc 36 21.20 0.7
 KDC 31.25 323 eP 36 23.70 0.3
 PMR 31.72 331 ePc 36 27.30 -0.1
 1.2s 149.20nm 5.8mb
 RSNY 32.26 64 eP 36 30.20 -2.2
 1.0s 48.81nm 5.4mb
 INK 32.52 348 eP 36 33.00 -1.4
 1.0s 37.00nm 5.3mb
 TBR 32.76 70 eP 36 35.00 -1.7
 PNJ 32.84 70 e(P) 36 34.30 -3.1
 i 36 36.40
 FBA 33.29 336 iPc 36 40.50 -0.6
 0.9s 166.67nm 6.0mb
 HBVT 33.32 64 eP 36 40.20 -1.4
 SVW 34.16 327 iPc 36 48.40 -0.4
 SDN 34.66 316 eP 36 53.10 0.1
 TTA 35.16 330 iPc 36 57.10 -0.3
 1.2s 92.80nm 5.5mb
 IMA 35.94 335 iPc 37 03.80 -0.3
 0.9s 53.90nm 5.4mb
 SCH 37.80 46 ePc 37 17.00 -2.7
 1.3s 151.00nm 5.6mb
 FRB 38.97 32 eP 37 29.00 -0.2
 0.8s 87.00nm 5.4mb
 MBC 39.11 359 eP 37 30.00 -0.3
 0.9s 74.00nm 5.3mb
 ADK 44.04 309 eP 38 09.80 -1.2
 0.8s 76.20nm 5.6mb
 TOV 50.12 111 eP 38 59.70 0.4
 CEOS 51.70 110 iPc 39 10.00 -1.4
 CAR 51.82 108 eP 39 09.00 -3.3
 LLAV 51.93 108 iPc 39 12.00 -1.1
 CUM 53.95 106 iP 39 22.00 -6.0
 DAG 55.82 16 iPc 39 37.70 -3.2
 0.9s 32.21nm 5.4mb
 RUV 59.72 215 iP 40 08.90 0.0
 1.2s 70.00nm 5.7mb
 ARE 68.18 133 eP 41 05.00 0.1
 KEV 70.02 13 eP 41 13.00 -2.1
 ZOBO 70.04 130 P 41 14.80 -1.9
 LPB 70.26 130 P 41 16.00 -1.8
 CNCB 70.54 130 P 41 18.00 -1.7
 EKA 71.70 34 Pd 41 23.10 -2.4
 1.4s 49.70nm 5.5mb
 SOD 72.02 14 iP 41 24.40 -2.8
 CCH 72.11 129 P 41 29.50 0.7
 NB2 73.21 24 P 41 32.10 -2.3
 0.9s 19.40nm 5.2mb
 SIV 74.30 125 P 41 39.40 -1.9
 HFS 74.69 23 iPc 41 40.50 -2.5
 0.8s 48.10nm 5.6mb
 Z 17s 0.09um 4.1MszX
 LR 10 28.00
 BST 75.80 40 P 41 46.70 -2.8
 SUF 75.96 17 eP 41 48.00 -2.2
 0.8s 8.50nm 4.9mb
 UPP 76.12 22 iP 41 48.60 -2.5
 YAMJ 77.03 308 P 41 55.60 -1.0
 FLN 77.27 38 iPc 41 56.50 -1.2
 1.2s 101.15nm 5.8mb
 Z 20s 0.08um 4.0Msz
 GRR 77.34 38 iPc 41 57.00 -1.1
 1.3s 101.10nm 5.8mb
 LPF 77.49 38 iPc 41 57.70 -1.2
 1.2s 98.20nm 5.8mb
 NUR 77.51 19 iP 41 56.00 -2.8
 0.8s 19.10nm 5.3mb
 LDF 77.56 38 iPc 41 58.10 -1.2
 1.2s 86.30nm 5.8mb
 WIT 77.64 31 eP 42 00.00 0.4
 NIIJ 78.25 308 P 42 02.30 -1.0
 SNF 78.28 34 P 42 02.70 -0.5
 WTS 78.30 32 eP 42 02.50 -0.8
 1.0s 39.00nm 5.5mb
 DOU 78.72 34 P 42 04.70 -0.9
 1.2s 166.70nm 6.0mb

12d 17h

ENN	78.82	33 iP	42 05.50	-0.7	LPG	83.07	36 iPc	42 28.80	-0.3	SLR	148.02	79 iPKPc	49 48.00	1.7
	0.9s	45.00nm		5.5mb		1.1s	47.60nm		5.6mb		1.0s	45.00nm		
MFF	78.91	39 iPc	42 05.50	-1.3	EVIA	83.07	46 eP	42 28.40	-0.6	NPA	149.17	51 ePKP	49 46.70	-1.5
	1.2s	83.30nm		5.7mb	LLS	83.08	34 ePd	42 28.90	-0.1	BFT	149.37	78 iPKPc	49 51.50	3.0
CHJJ	78.99	307 P	42 06.70	-0.7	FUR	83.08	32 eP	42 28.20	-0.6		1.0s	45.00nm		
MAT	79.18	308 iPc	42 07.20	-1.3		1.2s	63.00nm		5.7mb	MAW	149.59	180 iPKP	49 50.70	3.5
	0.7s	31.51nm		5.4mb	BAO	83.09	115 eP	42 29.40	0.0		235 obs.	associated		
MTMJ	79.41	308 P	42 08.90	-0.9	MMK	83.22	35 ePc	42 30.60	0.7					
LSF	79.99	38 iPc	42 11.20	-1.5	KHC	83.28	30 eP	42 29.00	-0.8					
	1.0s	26.00nm		5.1mb		1.1s	16.50nm		5.2mb					
EPLA	80.05	47 eP	42 12.00	-1.1	LSD	83.29	36 P	42 29.57	-0.7					
ABH	80.18	33 eP	42 13.54	-0.1	BNI	83.36	37 P	42 30.50	0.1					
TCF	80.30	38 iPc	42 13.00	-1.3	RRL	83.51	37 P	42 31.00	-0.3					
	0.9s	29.50nm		5.2mb	ORO	83.55	36 P	42 31.50	0.1					
ECRI	80.38	43 iPc	42 14.00	-0.9	RSP	83.56	36 P	42 31.31	-0.1					
SSF	80.38	37 iPc	42 13.40	-1.3	VDL	83.58	34 ePd	42 31.90	0.3					
	1.2s	89.25nm		5.6mb	TMA	83.60	35 ePd	42 31.30	-0.4					
LOR	80.40	37 iPc	42 13.70	-1.1	AVE	83.64	53 iP	42 31.00	-0.9					
	1.2s	139.45nm		5.8mb	OSS	83.73	34 ePd	42 32.40	0.1					
Z	20s	0.13um		4.3Msz	SOTA	83.78	33 iPc	42 31.90	-0.6					
BGF	80.42	38 iPc	42 13.40	-1.5		1.3s	70.20nm		5.7mb					
	1.2s	87.75nm		5.6mb	WATA	83.85	33 ePc	42 32.00	-0.9					
AVF	80.50	37 iPc	42 13.70	-1.6		1.3s	65.50nm		5.7mb					
	1.1s	67.15nm		5.5mb	PZZ	83.97	37 P	42 32.75	-0.8					
LFF	80.51	40 iPc	42 14.30	-1.1	OGA	83.97	33 eP	42 33.20	-0.4					
	1.2s	83.30nm		5.6mb		1.3s	51.00nm		5.6mb					
MAF	80.52	38 iPc	42 14.20	-1.3	DOI	84.04	37 P	42 33.50	-0.3					
	1.2s	58.00nm		5.4mb	BHG	84.10	32 iPd	42 33.50	-0.5					
MAF	80.52	38 P	42 19.41	3.9	MDI	84.23	35 P	42 33.00	-1.6					
RJF	80.65	39 iPc	42 14.70	-1.5	SOB1	84.25	106 iPc	42 34.70	-0.5					
	1.3s	86.65nm		5.6mb	STV	84.27	37 P	42 33.26	-1.7					
Z	20s	0.10um		4.2Msz	ENR	84.33	37 P	42 33.16	-2.2					
LBF	80.66	37 iPc	42 14.90	-1.4	LRC	84.39	38 eP	42 34.60	-0.9					
	1.2s	68.45nm		5.5mb		1.0s	28.00nm		5.4mb					
VITF	80.71	35 P	42 15.25	-1.1	FRF	84.45	38 eP	42 34.70	-1.1					
GUD	80.78	45 iPc	42 15.80	-1.3		1.2s	89.25nm		5.9mb					
SMF	80.84	37 iPc	42 15.50	-1.7	ROB	84.49	37 P	42 34.39	-1.7					
	1.0s	58.00nm		5.5mb	LMR	84.55	38 eP	42 35.20	-1.1					
GWF	80.88	34 P	42 16.00	-1.3		1.2s	83.30nm		5.8mb					
LPO	80.92	40 iPc	42 16.40	-1.2	SBF	84.61	37 eP	42 35.10	-1.6					
	0.9s	36.05nm		5.4mb		1.2s	74.40nm		5.8mb					
HAU	81.03	35 iPc	42 17.00	-1.1	PCP	84.63	36 P	42 33.98	-2.8					
	0.9s	42.60nm		5.5mb	FIN	84.72	36 P	42 31.72	-5.5					
Z	20s	0.13um		4.3Msz	SAL	84.72	34 P	42 36.50	-0.6					
CDF	81.15	34 P	42 17.66	-1.2	FVI	84.95	32 P	42 37.00	-1.2					
WLS	81.18	34 P	42 17.50	-1.5	KRA	84.95	26 iPd	42 37.10	-1.1					
CAF	81.19	39 iPc	42 17.70	-1.4		1.3s	115.00nm		5.9mb					
	1.0s	61.00nm		5.6mb			e	42 43.00						
ECH	81.24	34 P	42 17.66	-1.6	VKA	85.06	29 ePc	42 37.50	-1.3					
MOX	81.30	30 eP	42 18.00	-1.5		1.3s	48.50nm		5.6mb					
	1.3s	49.00nm		5.4mb	PPD	85.07	122 eP	42 38.60	-0.5					
CLL	81.34	29 iP	42 18.30	-1.3	TIO	85.28	55 iP	42 39.50	-0.9					
	1.1s	35.00nm		5.3mb	ZST	85.43	29 iP	42 39.70	-0.9					
TOL	81.35	46 iPc	42 19.50	-0.4		0.6s	36.00nm		5.7mb					
	1.1s	88.61nm		5.7mb	CAI	85.50	102 iPc	42 40.40	-1.0					
BSF	81.36	35 P	42 18.66	-1.3	SOP	85.63	30 iPd	42 42.10	0.5					
EPF	81.63	41 iPc	42 20.00	-1.4	SRO	86.21	29 iP	42 43.90	-0.8					
	1.2s	38.70nm		5.4mb	SFI	86.63	35 P	42 46.00	-0.6					
HOF	81.67	31 eP	42 20.50	-0.9	PTJ	86.83	31 eP	42 45.20	-2.5					
	1.2s	25.00nm		5.2mb	ARV	87.45	34 P	42 49.50	-1.2					
LOMF	81.73	35 P	42 20.49	-1.4	ASS	87.66	35 P	42 49.50	-2.2					
ETOR	81.84	44 iPc	42 21.60	-1.0	VAO	88.68	120 eP	42 56.50	-0.3					
FEL	81.88	34 P	42 21.10	-1.6	AZI	88.86	35 P	42 56.00	-1.4					
GRF	81.88	31 iPc	42 22.30	-0.2	BJI	89.16	322 eP	42 58.00	-0.9					
	1.3s	66.00nm		5.6mb		1.4s	44.00nm		5.5mb					
Z	18s	0.10um		4.2Msz	SDI	89.26	35 P	42 57.00	-2.4					
EHOR	82.01	48 eP	42 22.20	-1.2	JFO	90.40	117 (P)	43 04.00	-0.9					
PEL	82.03	143 eP	42 14.00	-9.4	MLR	90.95	25 eP	43 03.00	-4.3					
BRG	82.05	29 iPd	42 22.10	-1.2	SKO	92.30	30 iP	43 11.20	-2.2					
	1.1s	32.00nm		5.4mb	OMR	92.77	31 eP	43 14.00	-1.7					
		i	42 38.60		SSE	93.23	313 Pd	43 17.00	-0.8					
		i	43 06.00			1.0s	43.00nm		5.8mb					
		e	45 32.10		DZM	93.41	245 iPc	43 19.60	0.9					
SLE	82.17	34 ePc	42 22.90	-1.2	LZH	98.01	328 eP	43 39.00	-0.8					
ZLA	82.34	34 ePd	42 24.40	-0.6		2.0s	29.00nm		5.7mb					
MDZ	82.72	141 eP	42 26.60	-0.5	LKO	100.46	70 Pd iff	43 49.26	-1.8					
EMS	82.73	36 ePd	42 26.90	-0.3		0.8s	12.50nm		5.5mb					
DIX	82.94	36 ePd	42 28.50	0.0	ASPA	119.08	261 ePKP	48 50.60	-2.2					
KSP	82.97	28 eP	42 26.30	-1.8		1.0s	9.00nm							
		e	45 24.70		BCAO	121.10	55 iPKPd	48 55.00	-1.9					
PRU	82.98	29 Pc	42 27.30	-0.9		0.7s	8.00nm							
	1.3s	25.30nm		5.3mb	GBA	127.75	343 PKP	49 07.70	-1.9					
		e	42 35.20		KRI	143.88	65 iPKPc	49 39.00	-0.7					
WET	82.99	31 eP	42 27.80	-0.5	BUL	145.21	70 iPKPd	49 39.40	-2.5					
	1.3s	46.00nm		5.5mb	KSR	146.99	81 iPKPc	49 43.00	-1.7					
LPL	83.04	36 iPc	42 28.50	-0.4		1.0s	30.00nm							
	1.1s	31.75nm		5.5mb	CIR	147.95	69 iPKPd	49 48.90	2.8					

TIC 65.12 25 P 34 02.42 0.2
0.7s 14.00nm 5.2mb
LKO 67.79 24 Pd 34 19.70 0.5
0.5s 17.00nm 5.4mb
BCAO 71.07 50 iPd 34 39.60 0.2
0.6s 51.00nm 5.8mb
NWAQ 86.59 151 eP 36 03.00 -0.6
0.7s 6.00nm 4.9mb
MUN 87.20 150 iPd 36 06.30 -0.3
0.7s 25.00nm 5.6mb
KL8 87.99 151 iPd 36 10.30 -0.1
0.7s 22.00nm 5.6mb
ASPA 99.20 163 eP 37 01.10 -1.1
0.9s 5.70nm 5.1mb
MBC 143.74 336 ePKP 42 52.00 -2.1
0.7s 3.00nm
INK 145.51 321 ePKP 42 56.00 -1.3
FBA 150.21 312 PKP 43 06.00 1.2
BJI 151.50 109 ePKP 43 13.00 5.5X
S.D. = 1.2 on 19 of 21 obs.

OCT 12, 1990 20h 24m 50.07±0.67s
29.250 N ± 0.4km 51.431 E ± 0.3km
DEPTH = 33.0km (normal)
4.2mb (3 obs.)
SOUTHERN IRAN (353)
ML 4.1 (BMU).

BBU 3.14 196 iPn 25 39.00 0.6
eSn 26 34.00
DHR 3.15 202 eP 25 38.50 0.0
BRF 3.25 194 ePn 25 40.20 0.3
eSn 26 28.00
BJA 3.33 193 iPn 25 41.20 0.2
eSn 26 30.00
RYD 6.23 225 iPd 26 20.00 -2.2
KER 6.28 325 e(P) 26 42.00 19.1X
QASM 7.68 248 eP 26 58.70 16.3X
AFIF 8.98 237 ePc 27 01.30 0.7
KMSA 10.85 217 eP 27 21.20 -5.0X
SRAT 13.48 216 eP 27 57.00 -4.7X
QUE 13.52 82 eP 28 03.10 0.9
MLR 25.79 316 eP 30 24.00 4.2X
HYB 27.48 109 eP 30 35.00 -0.4
GBA 28.68 117 Pd 30 45.00 -1.2
0.7s 1.70nm 3.9mb
KHC 34.94 315 eP 31 41.00 0.2
BCAO 39.74 238 iPc 32 23.00 1.5
0.7s 7.00nm 4.5mb
HFS 39.94 332 eP 32 22.00 -0.6
0.7s 3.90nm 4.3mb
CHG 44.36 93 eP 33 02.00 3.5X
S.D. = 1.1 on 12 of 18 obs.

? OCT 12, 1990 23h 46m 50.74±13.42s
7.743 S ± 116.km 119.209 E ± 64.9km
DEPTH = 133.2 ± 40.5 km
4.3mb (3 obs.)
FLORES SEA (279)

MTN 12.78 114 eP 49 49.00 0.3
0.4s 81.00nm 5.6mb X
eS 51 54.00
MBL 13.35 177 eP 49 56.00 -0.2
0.3s 3.00nm 4.2mb
eS 52 07.00
NANU 15.15 193 eP 50 19.00 0.0
eS 52 51.00
WB5 19.01 131 eP 51 03.00 -1.1
eS 54 19.00
WARB 19.66 160 eP 51 12.00 0.4
0.4s 4.00nm 4.1mb
eS 54 40.00
ASPA 21.20 140 eP 51 27.70 0.6
0.2s 11.20nm 4.9mb
eS 55 06.10
S.D. = 0.9 on 6 of 6 obs.

OCT 13, 1990 00h 03m 04.79±0.34s
54.420 N ± 0.2km 159.511 E ± 7.4km
DEPTH = 131.0km (6 depth phases)
4.6mb (33 obs.)
NEAR EAST COAST OF KAMCHATKA (218)

KUSJ 14.92 227 eP 06 26.90 -3.0
eS 09 02.90
ASAJ 15.04 234 eP 06 36.50 5.0X

MOOJ 16.11 228 eP 06 44.80 0.0
eS 09 32.10
OFUJ 19.53 226 eP 07 24.30 0.3
NIIJ 22.21 228 P 07 55.90 5.0X
MAT 23.14 228 (P) 08 03.00 3.1X
CHJJ 23.22 226 P 08 07.60 6.9X
IIDJ 24.17 227 P 08 12.50 2.6X
INK 33.04 39 eP 09 25.00 -3.9X
MBC 35.96 24 eP 09 53.00 -0.7
0.9s 3.00nm 4.1mb
LZH 42.03 268 eP 10 45.00 0.4
2.0s 39.00nm 4.8mb
TNP 56.47 70 P 12 34.70 -0.4
e 13 03.00 122km
SUF 57.64 337 eP 12 42.00 -0.7
CHTO 57.85 257 P 12 45.20 0.5
CLC 57.89 72 eP 12 45.00 0.0
SBB 58.59 73 eP 12 49.00 -0.8
GSC 58.71 72 eP 12 50.00 -0.7
NUR 59.92 336 eP 12 58.00 -0.5
NB2 62.17 343 P 13 12.20 -1.5
0.6s 3.60nm 4.5mb
HFS 62.58 342 eP 13 14.50 -1.9
0.4s 3.40nm 4.6mb
EKA 69.69 350 P 14 01.00 -0.4
0.6s 6.00nm 4.6mb
KSP 70.69 336 eP 14 07.70 0.1
e 14 40.50 133km
HYB 70.79 273 eP 14 08.00 -0.7
CLL 70.99 339 iP 14 09.00 -0.4
0.9s 13.00nm 4.8mb
i 14 42.60 136km
BRG 71.19 338 e(P) 14 10.20 -0.4
WTS 71.54 343 eP 14 13.00 0.4
0.7s 7.00nm 4.6mb
PRU 71.89 337 Pc 14 15.20 0.4
e 14 49.00 137km
MOX 71.91 339 eP 14 15.00 0.1
ENN 72.88 343 eP 14 21.00 0.5
1.0s 11.00nm 4.6mb
e 14 31.00 32kmX
GRF 72.89 339 ePc 14 21.50 0.8
1.0s 13.00nm 4.7mb
KHC 72.91 337 P 14 21.90 1.1
e 14 55.20 134km
MLR 72.94 328 eP 14 21.50 0.4
e 34 02.00
GBA 74.45 272 P 14 30.00 -0.1
CDF 74.90 341 eP 14 32.20 -0.2
0.8s 8.05nm 4.5mb
HAU 75.46 342 eP 14 35.20 -0.3
BSF 75.55 341 eP 14 35.70 -0.4
FLN 75.82 346 eP 14 36.60 -0.8
0.6s 9.00nm 4.7mb
LDF 75.93 346 eP 14 37.60 -0.5
0.6s 4.50nm 4.4mb
GRR 76.23 347 eP 14 39.60 -0.2
0.6s 10.80nm 4.8mb
LPF 76.61 347 eP 14 41.60 -0.2
0.6s 7.20nm 4.6mb
LOR 76.61 343 eP 14 41.50 -0.4
1.0s 16.00nm 4.7mb
LBF 76.87 343 eP 14 42.90 -0.5
0.8s 4.70nm 4.3mb
SSF 76.87 343 eP 14 43.00 -0.3
0.8s 8.05nm 4.5mb
WB5 77.08 204 eP 14 45.90 1.2
AVF 77.16 343 eP 14 44.80 -0.1
0.9s 13.10nm 4.7mb
SMF 77.22 343 eP 14 45.00 -0.3
0.9s 6.55nm 4.4mb
BGF 77.47 344 eP 14 47.40 0.8
0.8s 5.35nm 4.4mb
SKO 77.50 329 eP 14 48.70 -6.2X
LPL 77.78 341 eP 14 49.70 1.0
0.8s 14.80nm 4.8mb
LPG 77.80 341 eP 14 49.70 0.9
0.8s 20.80nm 5.0mb
TCF 77.83 344 eP 14 48.70 0.0
0.8s 6.70nm 4.5mb
MAF 77.84 344 eP 14 49.20 0.5
0.8s 8.05nm 4.5mb
MFF 77.88 346 eP 14 49.00 0.1
0.6s 5.40nm 4.5mb
LSF 77.98 345 eP 14 49.40 0.0
0.8s 9.40nm 4.6mb
OHR 78.48 329 eP 14 52.20 -0.1

CAF 79.18 344 eP 14 57.00 0.9
0.8s 8.05nm 4.5mb
LFF 79.38 345 eP 14 58.00 1.0
0.6s 10.80nm 4.8mb
LPO 79.56 344 eP 14 58.70 0.7
0.8s 14.80nm 4.8mb
LRG 79.84 340 eP 15 00.20 0.7
0.8s 37.60nm 5.2mb
LMR 79.93 340 eP 15 00.60 0.6
0.8s 13.45nm 4.8mb
ASPA 80.83 204 iPc 15 07.00 2.1
1.2s 6.10nm 4.2mb
i 15 38.60 124km
EPF 81.31 345 eP 15 07.00 0.5
0.8s 6.70nm 4.5mb
KIC 118.02 342 PKP 21 38.00 0.6
S.D. = 0.8 on 56 of 63 obs.

OCT 13, 1990 00h 19m 26.99±0.66s
47.025 N ± 5.4km 9.477 E ± 6.1km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
ML 2.1 (VIE).

SAX 0.24 338 ePd 19 31.60 -0.7
LLS 0.36 245 eP 19 34.00 0.1
VDL 0.54 181 eP 19 37.90 0.0
OSS 0.57 126 eP 19 37.20 -1.5
SLE 1.00 318 ePd 19 45.90 0.0
TMA 1.01 205 iPd 19 46.80 0.6
SOTA 1.20 80 iPgD 19 50.00 1.4
i 20 05.60
i(Sg) 20 08.30
FEL 1.31 311 ePn 19 51.52 0.2
S.D. = 1.0 on 8 of 8 obs.

OCT 13, 1990 00h 20m 23.38±0.13s
15.724 N ± 3.1km 147.931 E ± 3.2km
DEPTH = 36.8km (26 depth phases)
5.8mb (68 obs.) 5.5Msz (19 obs.)
MARIANA ISLANDS REGION (215)
Ms 5.4 (BRK). Mo=2.0+10+18 Nm
(PPT).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 18S, 41C
Centroid Location:
Origin Time 00:20:23.7 0.3
Lat 15.77N 0.03 Lon 148.18E 0.03
Dep 15.0 BDY Half-duration 2.2
Moment Tensor: Scale 10+17 Nm
Mrr=-5.25 0.11 Mtt= 0.62 0.14
Mff= 4.63 0.15 Mrt= 1.99 0.39
Mrf= 4.57 0.46 Mtf= 2.71 0.11
Principal Axes:
T Val= 7.89 Prg=21 Azm=296
N -0.74 2 205
P -7.15 69 110
Best Double Couple: Mo=7.5+10+17
NP1: Strike= 30 Dip=24 Slip= -85
NP2: 204 66 -92

GUA 3.64 234 ePd 21 18.30 -0.5
eS 21 59.40
GUMO 3.65 235 eP 21 18.20 -0.7
PJG 3.65 235 ePd 21 18.10 -0.8
JAY 19.48 202 ePd 24 51.00 0.6
0.8s 99.00nm 5.1mb
RAB 20.23 168 iP- 24 58.00 -0.3
iS 28 40.00
MAT 22.47 339 eP 25 19.00 -1.8
0.9s 327.73nm 5.8mb
Z 20s 4.96um 4.9Msz
eS 29 27.00
SHK 23.21 327 eP 25 27.60 -0.5
PMG 24.98 182 eP 25 44.00 -1.3
MNI 26.83 240 eP 26 04.00 1.5
SVO 27.37 154 eP 26 06.00 -1.4
AAI 27.45 227 ePc 26 07.70 -0.4
HNR 27.68 154 eP 26 18.00 7.8X
SAP 27.82 350 eP 26 12.00 0.8
eS 31 02.00
SSE 28.82 307 P 26 18.00 -2.3
4.0s 400.00nm 5.5mb X
Z 20s 10.10um 5.4Msz
N 16s 5.20um
E 16s 5.10um

		pP	26	27.00	31km			S	33	51.00	ADE	51.17	190	iPd	29	24.60	-0.5			
		sP	26	33.40		GYA	39.80	293	iPc	27	56.00		0.9s	193.28nm			6.1mb			
OZH	28.95	293	Pc	26	20.50	-1.1	Z	4.0s	1200.00nm		6.0mb X	HON	51.36	75	P	29	40.00	13.2X		
	0.7s	200.00nm			5.9mb		N	13s	2.00um		5.2Msz		18s	1.49um			5.1Msz			
Z	24s	11.50um			5.4MszX		E	13s	2.00um			BFD	52.86	185	iPc	29	41.70	4.0X		
		S	31	07.00					S	33	59.00	COOL	53.02	209	eP	29	28.00	-11.1X		
NJ2	31.02	307	Pc	26	38.00	-1.9	HHC	40.20	316	Pc	27	57.50	SHL	53.03	290	iP	29	38.50	-1.0	
Z	21s	5.20um			5.2Msz			1.4s	320.00nm		-0.7			iS			37	02.00		
N	13s	3.30um					Z	16s	6.50um		5.6MszX	LSA	53.72	295	eP	29	46.00	1.2		
E	15s	4.50um					N	15s	2.20um					pP			29	55.00	30km	
YSS	31.50	353	P	26	45.00	1.1	E	15s	3.20um					sS			37	16.00		
HKC	32.53	287	ePd	26	53.80	0.6			PP	29	39.00	MRWA	54.29	215	iPc	29	47.80	-0.6		
DL2	32.64	320	eP	26	53.00	-1.0			S	33	55.50		0.5s	30.00nm			5.6mb			
	Z	14s	2.90um		5.1MszX		BTO	41.14	315	iPd	28	06.00	BAL	55.00	213	iPc	29	53.10	-0.5	
	N	16s	5.80um					N	15s	3.80um		0.2		0.7s	46.00nm			5.6mb		
E	16s	5.10um					E	15s	3.50um				KLB	55.24	211	iPc	29	54.60	-0.7	
		S	32	05.00					pP	28	18.00	44km		0.7s	87.00nm			5.9mb		
MDJ	32.71	335	Pc	26	54.50	-0.1	ASPA	41.48	200	iPd	28	03.40	-5.3X	SDN	55.74	33	eP	30	01.00	2.4
	1.4s	300.00nm			6.0mb			1.0s	19.60nm		4.8mb X	MUN	56.34	212	iPc	30	02.70	-0.5		
N	14s	2.90um					Z	19s	0.02um		3.0MszX	NWAO	56.58	211	iPc	30	04.60	-0.3		
E	14s	2.60um							eS	33	56.20		0.7s	88.00nm			5.9mb			
		S	32	10.00			DZM	41.71	154	iPd	28	10.00	-0.7	N	20s	1.00um				
MTN	32.90	211	iPc	26	55.50	-0.9	RMQ	41.97	179	iPd	28	10.00	-2.6	E	20s	1.70um				
	0.5s	128.00nm			6.1mb		TRT	42.00	239	ePc	28	13.80	0.8	RKG	57.61	210	iPc	30	15.20	3.0X
GZH	33.37	288	Pc	27	01.10	0.5		1.0s	102.30nm		5.5mb		0.7s	235.00nm			6.4mb			
	0.6s	130.00nm			6.0mb		QLP	42.21	185	iPd	28	13.00	-1.5	WMO	57.87	312	P	30	13.20	-0.9
Z	22s	9.50um			5.5Msz		CD2	43.00	299	P	28	21.20	0.0		8.0s	1000.00nm			5.9mb X	
N	15s	3.00um						Z	19s	6.99um		5.6Msz		Z	28s	4.30um			5.4MszX	
E	18s	4.20um					E	13s	1.94um				N	15s	5.40um					
		S	32	17.00					pP	28	27.00	19kmX			sP	30	25.00			
SNY	33.42	326	Pd	26	59.40	-1.3			sP	28	33.50				S	38	11.50			
	1.2s	130.00nm			5.7mb				S	34	44.00				ScS	39	59.00			
Z	19s	10.70um			5.6Msz				sS	34	54.00		SVW	60.40	28	eP	30	30.70	-0.6	
N	13s	4.10um							SS	37	50.00		KDC	60.74	32	e(P)	30	32.00	-1.5	
E	14s	5.90um					KMI	43.20	290	Pc	28	24.50	1.4	TTA	60.96	26	eP	30	34.00	-1.1
		pP	27	16.00				2.0s	310.00nm		5.7mb		MRW	61.86	157	P	30	39.00	-2.2	
CN2	33.89	330	Pc	27	03.50	-1.4	Z	20s	6.60um		5.5Msz		IMA	63.14	23	eP	30	49.10	-0.6	
	1.0s	100.00nm			5.7mb				pP	28	36.00	41km		1.1s	59.50nm			5.6mb		
Z	16s	17.00um			5.9MszX		LZH	44.09	306	iPd	28	31.00	0.9	PMR	63.51	28	eP	30	50.20	-1.8
N	15s	7.90um						2.0s	730.00nm		6.1mb			1.4s	338.40nm			6.3mb		
E	15s	2.00um					Z	22s	8.10um		5.6Msz		TOA	65.00	28	eP	31	01.10	-0.7	
		pP	27	14.80	41km		N	15s	4.20um				FBA	65.05	25	eP	31	00.30	-1.7	
		pP	29	43.00			E	16s	3.00um				NDI	65.92	295	iP	31	08.00	-0.2	
		S	32	20.00					PP	30	14.00				eS	39	53.00			
		ScP	33	25.00			LOE	44.24	279	eP	28	31.10	-0.2	HY8	66.17	282	iPc	31	09.50	-0.5
		SS	34	20.00			ADK	45.73	30	P	28	40.40	-2.3		0.8s	100.00nm			5.9mb	
WHN	34.07	302	iPc	27	06.50	0.0	MBL	45.87	218	eP	28	44.00	-0.2			e	31	20.50	36km	
	1.0s	100.00nm			5.7mb			0.6s	39.00nm		5.5mb		KSH	66.33	307	eP	31	13.00	2.2	
Z	19s	4.30um			5.2Msz		NST	45.93	277	eP	28	46.00	1.2	E	16s	4.80um				
N	15s	2.30um					COO	46.19	175	iPd	28	46.40	-0.2			iS	39	58.00		
E	12s	2.70um					WARB	46.52	207	iPd	28	50.20	0.9	GBA	67.94	279	P	31	21.00	-0.1
		pP	27	17.50	40km			0.4s	33.00nm		5.6mb		KOD	68.62	275	eP	31	25.80	0.0	
TIA	34.17	312	eP	27	05.50	-1.9		0.6s	38.00nm		5.5mb		AFR	69.72	116	iP	31	32.40	0.4	
	E	16s	5.40um				NNT	46.76	273	eP	28	54.40	3.0X		1.2s	215.00nm			6.1mb	
		S	32	29.00			CHG	46.77	281	iPd	28	51.70	0.3	PPN	70.02	116	iP	31	34.10	0.2
MKS	35.03	236	iPc	27	17.00	2.1		0.9s	73.95nm		5.7mb		TVO	70.28	116	iP	31	36.10	0.5	
KUPT	35.23	225	eP	27	07.00	-9.6X			eS	35	40.00			1.2s	270.00nm			6.2mb		
	1.0s	166.40nm			5.9mb		BDT	46.84	279	eP	28	53.80	1.8	PMO	70.36	113	iP	31	35.80	-0.1
CTA	35.63	183	iPd	27	19.10	-0.8		0.8s	109.00nm		5.9mb		POO	70.39	284	iPc	31	35.20	-1.0	
	2.0s	567.65nm			6.2mb		CMS	46.98	182	eP	28	51.50	-1.3		0.9s	95.80nm			5.8mb	
		iS	33	00.00			SNG	47.05	265	iPd	28	56.20	2.5	TPT	70.60	112	iP	31	37.10	-0.3
QIZ	36.45	281	P	27	28.20	1.3		1.0s	120.00nm		5.8mb			1.2s	205.00nm			6.0mb		
	0.7s	70.00nm			5.7mb		IPM	47.37	262	ePc	28	59.00	2.8	VAH	70.68	113	iP	31	38.90	1.0
N	12s	2.50um						0.5s	15.90nm		5.3mb			1.2s	140.00nm			5.9mb		
E	16s	2.56um					STK	47.72	187	iPc	28	57.70	-0.9	RUV	70.88	113	iP	31	39.00	-0.2
KNA	36.55	212	eP	27	27.00	-0.7		1.5s	37.00nm		5.2mb			1.2s	205.00nm			6.0mb		
	0.7s	36.00nm			5.4mb		GTA	48.06	309	Pd	29	01.20	-0.3	INK	71.27	23	eP	31	40.00	-0.7
BJI	36.75	318	eP	27	28.00	-1.2			eS	35	45.80			0.9s	81.00nm			5.7mb		
	2.0s	720.00nm			6.2mb			1.4s	370.00nm		6.2mb		BOM	71.28	285	iP	31	43.00	1.4	
Z	40s	12.90um			5.4MszX		Z	24s	12.80um		5.8MszX		OUE	74.61	298	eP	32	03.80	2.6	
N	18s	4.17um					E	16s	8.20um					1.1s	201.00nm			6.0mb		
		ePp	27	41.00	49kmX				pP	29	11.50	35km			pP	32	17.50	42km		
OIS	36.97	193	iPd	27	30.40	-0.8			sP	29	14.20		PGC	77.47	43	eP	32	15.00	-1.7	
WB5	37.81	201	iPd	27	38.00	-0.3			PcP	30	31.10		FHC	78.48	51	eP	32	24.00	1.5	
TIY	38.20	312	iPc	27	41.00	-0.5			PP	30	50.00		RMW	78.77	44	P	32	25.00	1.0	
	Z	32s	8.90um		5.4MszX				S	35	48.00		LON	78.90	44	P	32	25.00	0.3	
N	14s	3.60um							sS	36	06.00		WDC	79.60	51	eP	32	29.00	0.4	
E	16s	3.60um							ScS	38	52.40				ePp	32	39.50	34km		
		PP	29	09.00			NANU	49.54	221	eP	29	12.00	-0.8							
XAN	39.51	305	P	27	51.50	-1.0		0.6s	64.00nm		5.8mb									
	1.2s	100.00nm			5.5mb		BWA	49.87	179	eP	29	15.90	0.7							
N	16s	3.90um					CAN	50.77	179	eP	29	22.50	0.4							
E	14s	5.50um																		

YKA	79.60	28 eP	32 27.20	-0.9	ALO	93.40	52 ePd	33 37.00	0.3			i	39 05.70	
	0.9s	27.70nm		5.2mb		1.0s	25.00nm		5.6mb	ENN	105.90	336 ePKP	38 53.00	8.2X
MAIO	79.63	305 iPd-	32 30.00	1.0	Z	18s	1.20um		5.4Msz		1.2s	104.00nm		
	1.1s	61.84nm		5.5mb			e	33 49.00	39km			e	39 04.00	
		i	35 32.00		ANMO	93.40	52 P	33 37.50	0.8	WATA	106.06	331 ePKP	38 58.00	12.6X
PNT	79.82	42 ePd	32 29.00	-0.6		1.2s	38.09nm		5.7mb		1.5s	134.00nm		
	1.1s	130.00nm		5.8mb	SBA	94.02	176 eP	33 40.30	2.0			i	39 09.00	
LBFM	79.92	50 P	32 30.50	-0.1	UPP	94.70	337 iP	33 46.50	4.6X	TRI	106.14	328 ePKP	39 02.90	17.5X
		pP	32 41.90	37km			i	33 52.30	18kmX			e	48 08.00	
MIN	80.35	51 eP	32 32.00	0.0	KVT	95.46	315 eP	33 45.60	-0.3			e	49 09.00	
BRK	80.38	53 eP	32 33.00	0.2	HFS	95.92	339 eP	33 44.80	-2.8	SNF	106.73	337 PKP	39 03.60	17.3X
BKS	80.39	53 e(P)	32 33.20	0.3		0.6s	6.50nm		5.3mb	CTI	106.95	330 PKP	39 01.00	13.9X
	0.7s	83.00nm		5.8mb	Z	17s	1.52um		5.5MszX	DOU	106.95	336 PKP	39 03.70	16.9X
	20s	1.40um		5.3Msz			LR	09 18.00		CDF	107.18	334 ePKP	39 04.80	17.4X
E	20s	1.80um			NB2	96.08	340 P	33 46.80	-1.6		1.4s	61.00nm		
		ePcP	32 37.50			1.0s	21.60nm		5.6mb	TOL	118.83	336 ePKP	39 22.00	12.2X
		epP	32 43.70	33km	KAS	96.86	316 eP	33 52.00	-0.2	CIR	119.70	255 iPKPd	39 13.00	1.0
		eS	42 50.00		BBTK	98.25	315 eP	33 56.00	-2.6	KRI	121.00	260 iPKPd	39 18.50	3.8X
		eSS	48 00.00		CFR	98.50	322 eP	34 00.00	0.6	BFT	121.50	249 iPKPc	39 16.00	0.5
		eLO	53 00.00		TLB	98.89	321 eP	34 01.50	0.3		1.0s	20.00nm		
ORV	80.59	52 eP	32 34.00	0.1	VRI	98.97	323 eP	34 01.00	-0.6	BUL	122.36	256 iPKPd	39 17.80	0.6
		epP	32 45.70	39km	MEO	99.38	50 e(P)	34 05.00	1.3	KSR	124.35	249 iPKPc	39 20.50	-0.5
GCC	80.76	54 eP	32 35.30	0.5	KRA	100.15	329 ePd iff34	09.50	2.8		1.0s	17.00nm		
MHC	80.97	54 ePd	32 36.50	0.4			e	34 18.00		IFR	124.70	333 iPKP	39 22.50	1.1
		epP	32 47.00	33km	CMP	100.29	323 ePd iff34	08.00	0.4	AVE	125.87	334 iPKP	39 25.20	1.7
ARN	81.05	54 P	32 36.00	-0.4	SPC	100.55	328 ePd iff34	16.70	7.9X	BCAO	126.07	288 iPKPd	39 24.40	-0.1
		pP	32 48.00	40km	TUL	100.89	48 ePd iff34	19.70	9.3X		0.8s	22.00nm		
SAO	81.25	54 e(P)	32 38.70	1.3	JMB	100.93	320 ePd iff34	10.00	-0.4	TIO	127.84	333 iPKP	39 28.00	0.4
PRS	81.41	55 eP	32 38.70	0.4	KSP	101.39	331 ePd iff34	13.00	0.7			i	39 40.00	
NEW	81.67	42 P	32 39.00	-0.4			e	34 23.00				i	41 30.00	
LLA	81.68	54 eP	32 40.30	0.6	DIM	101.81	320 ePd iff34	15.00	0.7	LKO	143.70	312 PKP	39 53.82	-3.4X
CMB	81.78	53 ePd	32 40.60	0.4	BZS	102.03	325 ePd iff34	13.00	-2.2	KIC	145.16	307 PKP	39 59.36	-0.3
		epP	32 52.00	37km	KDZ	102.10	320 ePd iff34	15.00	-0.7		1.0s	419.00nm		
PRI	82.01	55 ePd	32 42.40	0.9	PGB	102.36	321 ePd iff34	17.00	0.1	TIC	145.19	308 PKP	39 59.34	-0.4
		epP	32 53.50	36km	BRG	102.44	332 ePd iff34	17.60	0.7		0.6s	86.00nm		
DRV	82.36	183 eP	32 43.00	0.7		1.2s	17.00nm		5.6mb	ZOBO	145.36	96 PKPd	40 01.00	0.3
FRI	82.55	54 ePd	32 44.50	0.3			i	34 28.50			1.6s	249.37nm		
		epP	32 55.00	33km			e	35 15.00		Z	24s	0.68um		5.3MszX
EDM	82.68	37 eP	32 45.00	0.5			e	37 37.70		LPB	145.41	96 PKP	40 02.00	1.5
BCH	82.69	56 P	32 45.90	0.8			i	38 24.10		Z	25s	1.61um		5.7MszX
ABL	83.46	56 P	32 49.70	0.5			i	38 34.20				LR	27 53.00	
ISA	83.85	55 eP	32 51.00	0.1	RZN	102.51	320 iPd iff34	19.00	1.2	LIC	145.46	307 PKP	40 00.22	0.0
TNP	84.19	52 P	32 52.90	0.1	CLL	102.55	333 ePd iff34	28.00	10.6X		1.0s	371.50nm		
		pP	33 03.80	35km		1.0s	16.00nm		5.9Msz	Z	20s	0.65um		5.4Msz
CLC	84.50	54 eP	32 54.00	-0.2	ZST	102.78	329 ePd iff34	30.40	11.9X	CNCB	145.54	97 PKPd	40 02.10	1.2
MWC	84.55	56 eP	32 54.00	-0.7		Z	18s	3.50um		MBO	146.56	333 ePKP	40 02.40	0.5
SBB	84.62	56 eP	32 55.00	0.2			e	37 30.60		CCH	147.32	98 PKP	40 08.00	4.5X
RKT	84.67	116 iP	33 01.80	6.7X			i	38 46.90		SIV	152.11	95 PKP	40 11.20	0.7
	1.2s	55.00nm		5.6mb	PRU	102.79	331 ePd iff34	22.50	4.0X	PPD	160.75	112 ePKP	40 22.00	0.9
SES	84.89	39 eP	32 56.00	0.2		Z	18s	2.50um	5.8Msz			e	41 03.30	
	1.3s	478.00nm		6.5mb	N	17s	1.90um			VAO	164.20	120 ePKP	40 26.20	1.6
		pP	33 08.00	39km	E	17s	1.40um					e	40 37.40	
RVR	85.16	56 eP	32 57.00	-0.4			e	34 30.60				e	41 19.80	
GSC	85.26	55 eP	32 58.00	0.0			PP	38 43.00				e	41 30.90	
		e	36 23.00		VTS	102.91	321 iPd iff34	21.00	1.5	BAO	164.67	92 e(PKP)	40 27.00	1.7
PEC	85.36	56 P	32 58.40	-0.1	MMB	103.18	320 ePd iff34	20.00	-0.5	SOB1	169.22	54 ePKP	40 29.60	1.1
	1.4s	104.17nm		5.8mb	MOX	103.63	333 ePd iff34	34.00	11.7X			e	40 41.80	
LRM	85.41	44 eP	32 58.90	0.1	KHC	103.84	331 Pd iff34	28.50	5.2X			e	41 41.00	
PLM	85.74	57 eP	33 01.00	0.4		Z	18s	1.00um	5.4Msz	CAI	169.60	29 ePKP	40 29.80	1.0
		e	36 24.00				N	1.70um			S.D. = 1.1	on 195 of 225 obs.		
BAR	86.08	57 eP	33 02.00	-0.1		E	16s	1.20um						
TPC	86.19	56 eP	33 02.00	-0.6			e	37 33.50		%	OCT 13, 1990	00h 30m 42.87± 1.71s		
		e	36 23.00					38 47.20			17.029 N ±17.9km	99.458 W ±16.9km		
SOD	86.86	341 iP	33 04.40	-0.8				45 04.20			DEPTH = 33.0km (normol)			
		i	33 16.40	39km				45 44.20			GUERRERO, MEXICO		(59)	
DUG	86.88	49 P	33 06.20	0.2				48 06.20		ACX	0.41	248 iP	30 52.10	-0.1
DAG	87.35	357 iPc	33 06.60	-0.8	SKO	104.34	322 iPd iff34	25.70	0.1			iS	31 01.18	
	0.7s	110.73nm		6.2mb		1.0s	56.00nm		6.4mb	III	1.34	360 iPc	31 04.91	-0.7
GLA	87.47	57 eP	33 09.00	0.2		Z	18s	2.88um	5.9Msz			eS	31 23.22	
		e	36 34.00				N	1.43um		PPM	2.18	21 eP	31 16.95	-1.0
TRO	87.70	344 eP	33 10.30	1.1			E	1.78um				iS	31 40.62	
DAU	87.94	49 P	33 10.70	-0.6				34 30.70		IIT	2.26	29 iP	31 17.73	-1.2
BW06	88.36	46 P	33 13.40	0.2				34 37.20				eS	31 45.41	
	1.4s	41.09nm		5.5mb				45 04.20		UNM	2.30	6 (P)	31 20.00	0.4
FFC	88.43	33 eP	33 13.00	0.1				45 44.20		CRX	2.37	355 (P)	31 22.00	1.4
	1.4s	76.00nm		5.8mb				46 14.20		IIJ	2.70	354 (P)	31 29.08	3.7X
TAB	89.29	309 eP	33 10.00	0.4				48 06.20				iS	32 01.50	
SUF	89.70	337 eP	33 18.00	-0.8	GRF	104.50	333 ePd iff34	32.00	5.8X	MRX	3.13	329 (P)	31 35.50	4.5X
NUR	91.57	336 eP	33 26.00	-1.5		Z	19s	2.00um	5.7Msz			(S)	32 26.39	
	1.2s	150.30nm		6.3mb				e(P) 38 46.00		LVVM	3.93	46 (P)	31 43.59	1.3
		i	33 37.80	38km				34 40.30			S.D. = 1.3	on 7 of 9 obs.		
RSSD	91.60	43 P	33 28.00	-0.3	OHR	105.24	321 iPd iff34	28.70	-1.0					
		pP	33 39.00	35km		1.1s	135.00nm		6.8mb X					
GOL	92.42	48 P	33 32.60	0.4				34 46.20						
	1.2s	43.03nm		5.8mb	FUR	105.59	332 ePKP	38 53.50	9.2X					

? OCT 13, 1990 00h 52m 28.86±1.15s
38.873 N ±10.2km 27.640 E ±13.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.4 (ISK).

IZM 0.56 212 ePg 52 40.10 -0.1
ISg 52 48.10
DST 1.06 46 iPn 52 49.20 0.3
EZN 1.39 313 ePn 52 55.00 0.7
KGT 1.60 351 ePn 52 56.30 -0.9
S.D. = 1.2 on 4 of 4 obs.

* OCT 13, 1990 01h 34m 13.70±0.83s
17.929 N ±10.7km 122.109 E ±15.2km
DEPTH = 33.0km (normal)
4.6mb (5 obs.)
LUZON, PHILIPPINE ISLANDS (249)

OZH 7.71 335 P 36 05.00 -1.5
OIZ 11.69 277 eP 37 00.00 -1.3
eS 39 09.00
XAN 19.92 326 P 38 46.00 0.4
CD2 21.08 311 P 38 58.20 0.5
TIY 21.46 339 Pd 39 02.80 1.3
CHG 22.00 276 eP 39 08.50 1.6
BJI 22.62 348 eP 39 13.50 0.6
1.5s 26.00nm 4.5mb
LZH 24.25 322 eP 39 30.50 1.5
1.8s 38.00nm 4.6mb

WMO 38.77 319 eP 41 34.60 -2.4
WB5 39.45 162 eP 41 42.20 -0.5
ASPA 42.91 164 eP 42 11.40 0.3
0.6s 8.70nm 4.7mb
KOD 43.88 266 eP 42 20.00 0.5
HFS 83.43 331 eP 46 38.40 -0.6
0.9s 10.40nm 5.0mb
NB2 84.14 333 P 46 42.30 -0.3
0.8s 3.20nm 4.5mb
S.D. = 1.3 on 14 of 14 obs.

? OCT 13, 1990 02h 07m 31.83±1.24s
31.364 S ±35.0km 68.517 W ±23.9km
DEPTH = 110.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.05 50 iPc 07 47.50 0.0
ZON 0.23 217 iPd 07 48.00 0.1
eS 08 00.00
RTCB 0.27 243 iPd 07 47.90 -0.2
RTCV 0.50 182 iPc 07 48.90 0.0
RTBS 0.05 249 iPd 07 51.80 0.0
S 08 03.50
MDZ 1.54 190 eP 08 18.10 18.5X
S.D. = 0.2 on 5 of 6 obs.

OCT 13, 1990 02h 32m 26.46±0.55s
49.173 N ±4.4km 6.954 E ±6.9km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
MD 2.5 (UCC), 2.4 (STR).

RUP 0.53 7 ePg 32 37.35 0.1
CDF 0.79 164 Pg 32 41.69 -0.2
Sg 32 54.46
ABH 0.81 28 ePg 32 42.37 0.2
VITF 1.15 214 Pn 32 47.48 -0.5
Sg 33 02.78
TOD 1.28 70 ePg 32 49.74 -0.6
MOF 1.33 175 Pn 32 51.83 0.8
Sg 33 10.09
TNS 1.43 42 ePnc 32 52.70 0.2
e 33 13.60
DOU 1.79 302 P 32 57.60 0.0
i 32 59.70
GRF 2.83 78 ePg 33 21.60 9.0X
eSg 34 02.20
S.D. = 0.5 on 8 of 9 obs.

? OCT 13, 1990 03h 52m 08.13±2.53s
35.366 S ±23.3km 70.948 W ±16.1km
DEPTH = 85.8 ±16.0 km
CHILE-ARGENTINA BORDER REGION (127)

LNV 1.46 345 iPc 52 33.30 -0.2

PCH 1.78 12 iS 52 48.50
iPd 52 38.50 0.7
iS 52 59.00
SAN 1.92 7 eP 52 39.50 -0.2
i 52 58.20
LCCM 1.95 345 iPd 52 39.20 -0.9
iS 53 00.50
PEL 2.23 6 iPd 52 43.90 0.0
iS 53 07.00
ROCH 2.39 359 iPc 52 46.00 -0.3
JACH 2.69 6 iPc 52 50.00 -0.3
iS 53 18.50
MDZ 3.03 36 eP 53 04.50 9.6X
eS 53 23.20
RTBS 3.90 19 e(P) 53 08.10 1.2
RTCV 4.03 31 e(P) 53 10.30 1.5
RTCB 4.27 26 eP 53 12.10 0.0
RTLL 4.53 28 ePd 53 14.60 -1.1
CNCB 18.67 9 P 56 23.00 0.2
ZOBO 19.18 8 P 56 30.00 1.6
SIV 21.22 27 P 56 47.00 -1.8
PPD 21.70 57 eP 56 51.90 -1.5
e 56 53.70
KIC 74.67 71 P 03 41.00 0.7
GBA 144.23 119 PKPd 11 36.40 0.4
0.6s 2.50nm
S.D. = 1.1 on 17 of 18 obs.

* OCT 13, 1990 03h 56m 17.80s
31.720 N 115.910 W
DEPTH = 6.0km (geophysicist)
3.6mb (1 obs.)
BAJA CALIFORNIA (48)
<PAS-P>. ML 4.0 (PAS).

RDX 0.21 351 iPc 56 22.69 0.4
S 56 25.61
EMX 0.63 65 iPc 56 30.45 0.1
S 56 38.98
ENX 0.66 284 iPc 56 30.76 -0.3
S 56 39.75
PBX 0.70 272 iPc 56 31.45 -0.3
S 56 40.97
ECBX 0.77 108 iPc 56 33.52 0.3
S 56 44.12
SPX 0.77 150 iPd 56 33.37 -0.1
S 56 43.97
CPBX 0.87 36 iPc 56 35.21 0.4
S 56 46.80
CBX 0.87 313 iPc 56 34.44 -0.6
S 56 45.51
LMX 0.90 64 iPc 56 35.75 0.4
S 56 48.85
IKP 0.94 350 iPc 56 35.60 -0.6
eS 56 47.10
BAR 1.15 326 iPd 56 38.70 -1.1
eS 56 53.00
CPE 1.53 319 ePc 56 45.20 -0.5
GLA 1.61 34 iPd 56 45.40 -1.5
PLM 1.82 334 eP 56 49.50 -0.5
PEC 2.41 334 ePd 56 57.40 -1.0
ABL 4.18 319 eP 57 22.00 -1.7
BLP 4.71 308 eP 57 29.50 -1.6
BCH 4.91 316 eP 57 32.80 -1.2
PHAM 5.55 319 eP 57 40.50 -2.5
TNP 6.44 351 eP 57 55.00 -0.7
CMB 7.29 331 e(P) 58 10.00 2.5
ALO 8.54 65 eP 58 25.00 -0.1
TUL 17.23 71 eP 00 24.50 3.9
1.2s 5.90nm 3.6mb
23 obs. associated

* OCT 13, 1990 03h 59m 07.94±2.92s
70.353 N ±22.9km 7.262 E ±18.2km
DEPTH = 10.0km (geophysicist)
NORWEGIAN SEA (642)
MD 3.5 (BER).

LOF 3.16 132 iPn 00 00.20 1.6
iS 00 47.79
TRO 4.07 95 iPn 00 10.96 -0.6
iS 01 02.33
KTK1 5.72 96 iPn 00 35.14 0.2
eS 01 43.68
NSS 6.12 161 iPn 00 40.94 0.4
eS 01 53.31
RGS 7.47 169 ePn 00 58.50 -1.0

SOD 7.60 104 iP 01 00.90 -0.3
iS 02 28.30
MOL 7.82 179 iPn 01 01.72 -2.7X
eS 02 27.55
NB2 9.49 168 P 01 26.60 -1.0
0.4s 2.40nm 4.9mb
NRA0 9.82 168 P 01 28.10 -4.0X
Sg 04 23.90
HFS 10.60 162 eP 01 41.30 -1.5X
0.4s 14.50nm 5.7mb
NUR 12.18 135 iP 02 04.00 -0.1
iS 04 21.90
EKA 15.77 202 P 02 52.00 0.7
2.6s 135.60nm 4.7mb
KRA 21.22 157 eP 03 59.00 3.3X
KHC 21.50 169 eP 04 02.10 3.5X
BCAO 66.24 168 iPd 09 54.00 -3.9X
0.4s 6.00nm 5.1mb
S.D. = 1.0 on 9 of 15 obs.

* OCT 13, 1990 04h 07m 40.77±1.51s
51.327 N ±16.5km 15.806 E ±7.4km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 3.3 (VKA), 2.7 (KRA).

KSP 0.57 147 iPd 07 50.70 -1.7
0.5s 94.00nm
iS 07 59.00
iLR 08 06.70
BRG 1.26 250 iPg 08 05.20 1.1
iSg 08 25.00
PRU 1.56 211 Pn 08 08.70 0.1
Pg 08 10.60
Sn 08 27.60
Sg 08 34.20
CLL 1.76 271 iPn 08 10.20 -1.2
iPg 08 13.80
eSg 08 38.00
KHC 2.62 214 Pn 08 24.40 0.5
Pg 08 30.50
eSg 09 07.20
HOF 2.69 249 iPnd 08 24.80 -0.1
MOX 2.73 257 ePn 08 25.00 -0.5
iPg 08 33.00
iSg 09 13.00
WET 2.88 222 iPnc 08 28.00 0.4
KRA 2.92 114 eP 08 29.40 1.3
iS 09 10.30
VKA 3.08 174 iPg 08 38.50 8.1X
iSg 09 21.90
ZST 3.24 164 eP 08 39.80 7.1X
e 08 47.90
e 09 26.60
e 14 16.00
GRF 3.35 243 ePn 08 34.40 0.1
ePg 08 47.40
e(Sn) 09 14.00
eSg 09 32.50
S.D. = 1.1 on 10 of 12 obs.

OCT 13, 1990 04h 12m 08.35±0.27s
40.709 N ±2.7km 23.404 E ±2.3km
DEPTH = 10.8 ±2.1 km
4.3mb (5 obs.)
GREECE (364)
ML 4.0 (THE), 3.9 (ATH). Felt at Thessaloniki.

SOH 0.12 341 ePd 12 11.76 0.3
PLG 0.34 175 iPg 12 14.20 -1.2
THE 0.34 257 iPc 12 14.50 -1.0
eS 12 19.16
SRS 0.43 19 iPc 12 17.13 -0.1
OUR 0.58 130 ePd 12 19.48 -0.5
KNT 0.59 320 iPc 12 19.82 -0.5
GRG 0.80 288 iPd 12 22.98 -0.9
iS 12 34.96
MMB 0.91 15 iPg 12 25.00 -0.7
LIT 0.93 229 iPd 12 25.12 -0.9
eS 12 38.08
KKB 1.18 348 iPc 12 30.00 -0.3
KZN 1.31 253 iPbc 12 31.60 -0.9
RZN 1.39 45 iPg 12 35.00 1.2
NEO 1.41 186 iPbd 12 33.40 -0.5
FNA 1.54 273 ePc 12 36.48 0.6

RDO	1.67	74	ePb	12 40.50	2.8	VOY	8.73	311	iPc	14 16.80	-0.7	BJI	31.43	350	eP	34 48.50	-0.9
PLD	1.70	35	iPc	12 40.00	1.9				i	14 22.50			1.0s		24.00nm		5.0mb
KDZ	1.79	58	iP	12 39.00	-0.4	FVI	9.68	311	P	14 30.00	-0.5	Z	24s		0.38um		4.0MszX
AGG	1.88	206	ePc	12 40.54	-0.2	CTI	10.08	306	P	14 34.50	-1.7	LZH	31.93	330	eP	34 53.00	-1.0
VTS	1.89	356	iPc	12 42.00	1.1	SOTA	10.93	311	iP	14 43.80	-4.0X		2.0s		36.00nm		4.9mb
PGB	1.93	17	iPc	12 42.00	0.6				0.3s	2.70nm	5.2mb	Z	14s		1.30um		4.8MszX
SKO	1.94	311	iPn	12 42.20	0.6				i	14 47.20		N	15s		1.00um		
			iPg	12 45.80		HFS	20.37	346	eP	16 44.60	-2.8	E	15s		2.10um		
			i	12 56.20					1.0s	8.60nm	4.1mb				pP	35 02.00	31km
			i	13 01.70		NB2	21.69	344	P	17 00.60	-0.3				sP	35 07.00	
			i	13 03.20					0.8s	4.60nm	3.9mb				eS	40 00.00	
			iSn	13 07.00		EKA	22.82	319	P	17 11.00	-1.2	HHC	33.20	345	P	35 04.20	-0.7
			iSg	13 10.20					1.0s	10.90nm	4.3mb	Z	20s		1.80um		4.8Msz
ALN	2.01	84	ePd	12 42.84	0.2	BCAO	36.38	188	iPc	19 14.00	-0.5	BTO	33.40	342	eP	35 05.00	-1.7
ONR	2.02	282	iPnd	12 43.60	0.9				0.4s	4.00nm	4.6mb	N	16s		1.10um		
			iSn	13 09.70		S.D. = 1.2 on 84 of 94 obs.						E	16s		1.10um		
EVR	2.17	215	ePb	12 45.50	0.5										eS	40 25.00	
LSK	2.21	256	iPnc	12 53.30	7.7X	OCT 13, 1990 04h 28m 27.72 ± 0.43s						ASPA	34.29	161	iPd	35 12.90	-1.6
EZN	2.40	111	iPn	12 48.30	0.1	9.012 N ± 5.8km 122.647 E ± 8.3km							1.6s		14.80nm		4.7mb
IGT	2.63	244	ePd	12 53.16	1.6	DEPTH = 24.0km (4 depth phases)						Z	20s		0.48um		4.2Msz
PRK	2.64	123	ePg	13 00.00	8.3X	4.9mb (12 obs.) 4.5Msz (6 obs.)						LSA	35.95	309	P	35 29.00	-0.1
SRN	2.73	253	ePn	12 54.40	1.5	NEGROS, PHILIPPINE ISLANDS (257)						MDJ	35.98	8	eP	35 27.70	-0.9
ATH	2.74	175	iPnc	12 54.00	0.9	Felt at Bacolod and Iloilo.							1.0s		30.00nm		5.2mb
			eSn	13 25.60								GTA	36.51	330	Pc	35 33.30	-0.1
TIR	2.75	285	ePn	12 55.70	2.5	KKM	7.03	246	ePd	30 09.90	-1.9		0.8s		10.00nm		4.7mb
PVL	2.89	29	iPc	12 54.00	-1.1				0.9s	334.20nm	6.4mb X	Z	16s		1.20um		4.8MszX
KEK	2.93	251	ePn	12 57.00	1.2	MKS	14.49	193	ePd	32 03.50	10.2X	E	14s		0.70um		
MFT	2.95	87	iPn	12 55.30	-0.7	QIZ	15.91	310	eP	32 15.80	4.0X	STK	44.52	157	iP	36 39.70	0.4
JMB	2.96	53	iPd	12 56.00	-0.1				N 16s	2.70um			1.4s		11.00nm		4.5mb
KGT	2.98	94	iPn	12 55.20	-1.2				E 16s	2.80um					e	36 44.10	15km
SDA	3.22	295	ePn	13 02.70	2.9X										e	38 27.30	
VLS	3.34	222	ePb	13 05.00	3.5X	QZH	16.31	347	P	32 21.00	4.2X	GBA	44.52	280	P	36 39.00	-0.6
IYA	3.40	311	ePn	13 03.60	1.2				1.0s	100.00nm	4.9mb	KOD	44.53	275	eP	36 40.60	0.5
			e(Sn)	13 42.00		Z	18s		1.80um	4.5Msz	WMQ	46.10	325	P	36 52.50	0.6	
EDC	3.42	95	ePn	13 03.00	0.4	N	18s		1.30um			Z	16s		0.70um		4.7MszX
BNT	3.46	94	ePn	13 01.20	-2.0				sS	35 30.00					pP	36 59.00	22km
DMK	3.46	70	ePn	13 03.80	0.5	TRT	19.37	211	iPc	32 56.50	1.6	ADE	46.30	162	e(P)	36 52.50	-1.0
TTG	3.55	300	e(Pn)	13 06.30	1.8	KGM	20.44	251	eP	33 07.20	0.9		0.8s		61.19nm		5.6mb
			e(Sn)	13 48.00		IPM	21.91	260	ePd	33 21.90	0.7	POO	48.20	287	iPc	37 08.00	-0.7
ITM	3.71	199	ePb	13 09.00	2.2	LOE	21.99	294	eP	33 18.60	-3.4X		1.0s		24.00nm		5.2mb
IZM	3.77	127	ePn	13 08.10	0.4	SSE	22.02	357	Pd	33 22.10	0.0	CAN	50.63	152	eP	37 37.90	10.8X
CTT	3.83	82	iPn	13 07.20	-1.4				1.0s	58.00nm	5.0mb	MAIO	63.12	306	eP	38 56.00	-0.1
SRE	3.95	358	eP	13 25.00	14.8X	Z	20s		0.80um	4.1Msz	FBA	81.72	26	(P)	40 46.30	0.9	
APE	4.00	155	ePn	13 10.00	-0.9	E	14s		0.70um		INK	86.75	21	eP	41 13.00	2.2	
VLI	4.00	185	ePn	13 10.00	-0.9				S	37 24.00		MBG	87.70	12	eP	41 18.00	2.7X
SMG	4.01	137	ePn	13 10.00	-1.0				sS	37 30.00		NB2	92.28	333	P	41 37.00	0.0
DRA	4.02	9	ePd	13 13.00	1.9				sS	37 30.00			0.9s		3.60nm		4.8mb
DST	4.15	104	iPn	13 13.10	0.0	PJG	22.25	76	eP	33 30.50	5.9X	KIC	125.38	284	PKP	47 38.90	9.5X
LCI	4.17	267	P	13 11.40	-1.9	WHN	22.78	341	eP	33 31.50	1.8	TIC	125.57	285	PKP	47 39.20	9.4X
BRY	4.24	303	ePn	13 16.00	1.5	Z	16s		1.20um	4.4MszX	PPD	165.81	203	ePKP	48 36.60	4.4X	
			e(Sn)	14 06.00		N	14s		1.20um		ZOBO	167.26	126	PKP	48 36.00	1.8	
ISK	4.30	83	ePn	13 16.00	0.8				sP	33 43.00					S.D. = 1.2 on 37 of 48 obs.		
VLV	4.54	90	ePn	13 25.20	6.5X				S	37 38.00					* OCT 13, 1990 05h 28m 09.15 ± 2.38s		
IZI	4.64	93	ePn	13 15.00	-5.1X	NNT	22.78	281	eP	33 31.20	1.3				32.752 S ± 12.0km 72.008 W ± 21.1km		
CMP	4.71	14	ePc	13 19.00	-2.1	NST	22.96	289	eP	33 51.30	19.8X				DEPTH = 28.4 ± 8.0 km		
TNR	4.98	7	ePc	13 23.00	-1.8	GYA	23.04	321	P	33 33.40	1.0				OFF COAST OF CENTRAL CHILE (134)		
ISR	4.99	26	ePc	13 26.00	1.0	Z	14s		1.20um	4.5MszX							
BZS	5.08	346	ePc	13 24.50	-1.6	N	13s		1.10um								
MLR	5.13	20	ePd	13 27.50	0.5	E	13s		1.30um								
			e	41 12.00					S	37 46.00							
TLB	5.17	40	eP	13 31.00	3.6X	NJ2	23.19	352	Pc	33 35.40	1.7	LCCH	1.26	125	iPc	28 31.00	0.0
KHL	5.30	115	ePn	13 31.00	1.6	Z	17s		0.40um	3.9MszX		ROCH	1.53	99	iPc	28 33.50	-1.5
VAM	5.33	173	ePn	13 32.60	2.8	N	11s		0.50um						iS	28 50.20	
ORI	5.35	265	P	13 30.00	-0.1	E	11s		0.40um			LNW	1.68	136	iPc	28 37.50	0.6
ALT	5.42	106	eP	13 32.20	1.1				sP	33 48.00					iS	28 57.50	
CVO	5.50	21	eP	13 33.50	1.4				S	37 45.00		PEL	1.83	103	iPc	28 38.90	-0.3
TDS	5.51	261	P	13 33.50	1.1	BDT	24.42	292	eP	33 46.00	1.1				iS	28 59.00	
CSI	5.52	263	P	13 31.80	-0.8				0.9s	36.30nm	5.0mb	JACH	1.87	88	iPd	28 38.00	-1.8
CFR	5.67	36	eP	13 34.00	-0.5	KMI	24.82	313	eP	33 50.00	0.2				iS	28 58.00	
VRI	5.70	24	ePd	13 35.50	0.6	Z	18s		2.00um	4.7Msz		SAN	1.93	112	iPc	28 41.00	0.3
CZI	5.78	257	P	13 36.00	-0.1				pP	33 58.00	20km				iS	29 02.40	
MGR	6.02	267	P	13 39.00	-0.4				eS	38 12.00		PCH	2.11	115	iPc	28 43.70	0.4
SGO	6.16	271	P	13 41.00	-0.4	CHG	24.96	296	eP	33 50.30	-0.7				iS	29 07.40	
BSS	6.53	274	P	13 46.20	-0.5	KNA	25.34	166	eP	33 55.00	0.5	RTBS	3.04	70	eP	28 57.30	0.8
DUI	6.82	281	P	13 49.00	-1.8	TIA	27.54	350	eP	34 15.30	0.6	MDZ	3.34	93	eP	29 07.40	6.7X
SDI	7.30	281	P	13 57.50	0.0	E	13s		0.60um			RTC8	3.63	71	eP	29 05.00	0.1
ZAG	7.44	316	eP	14 01.00	1.6				S	34 16.80	-1.4				eS	29 48.50	
PTJ	7.51	316	eP	14 01.00	0.5	XAN	27.93	335	P	34 16.80	-1.4	RTCV	3.72	77	ePc	29 07.00	0.8
MEU	7.53	244	P	13 57.00	-3.7X				N 12s	0.80um		RTLL	3.95	70	ePd	29 10.40	1.1
CEY	8.26	310	ePc	14 12.60	1.7				E 12s	0.50um					eS	29 52.60	
ARV	8.26	293	P	14 11.00	0.0				eS	38 58.00		ZOBO	16.95	16	P	32 06.00	-0.5
ASS	8.35	290	P	14 11.00	-1.3	CD2	28.01	324	P	34 17.20	-1.9				Z 20s	0.12um	49 28.00
LJU	8.37	312	e(P)	14 14.50	2.0	Z	18s		1.60um	4.7Msz					S.D. = 1.1 on 12 of 13 obs.		
TRI	8.63	309	ePn	14 14.50	-1.5	TII	30.03	344	P	34 35.90	-1.3				% OCT 13, 1990 05h 35m 34.07 ± 0.91s		
			eSn	15 49.00		Z	20s		1.25um	4.5Msz					40.191 N ± 8.7km 27.375 E ± 6.9km		
			e	16 53.00		N	15s		0.90um						DEPTH = 10.0km (geophysicist)		
			e	16 59.10		WB5	30.94	158	eP	34 44.00	-1.3						
									i	34 54.80	40kmX						

13d 05h

TURKEY (366)
MD 3.1 (ISK).

EDC	0.40	67	iPg	35	42.50	0.2
			iSg	35	48.50	
BNT	0.45	68	iPg	35	42.20	-1.0
			iSg	35	48.20	
MFT	0.60	353	iPg	35	46.30	0.1
			iSg	35	53.80	
EZN	0.89	246	iPg	35	51.00	0.0
			eSg	36	04.40	
DST	1.13	121	iPn	35	55.00	-0.2
CTT	1.25	40	iPn	35	56.30	-0.9
ISK	1.55	55	ePn	36	03.00	1.3
YLV	1.57	76	iPn	36	03.60	1.5
IZI	1.61	84	ePn	36	00.70	-2.0
DMK	1.65	10	ePn	36	02.80	-0.4
MRT	1.86	69	ePn	36	08.00	1.7
KHL	2.50	138	ePn	36	20.00	4.5X

S.D. = 1.3 on 11 of 12 obs.

* OCT 13, 1990 05h 55m 49.08±0.90s
21.856 S ± 9.3km 68.618 W ± 10.8km
DEPTH = 193.2 ± 28.0 km

CHILE-BOLIVIA BORDER REGION (124)

ANT	2.48	222	iP	56	32.80	0.1
			iS	57	04.50	
CCH	5.02	28	P	57	05.00	0.4
CNCB	5.06	7	P	57	05.30	0.0
LPB	5.32	5	P	57	09.80	1.3
ZOBO	5.58	5	P	57	11.00	-1.1
ARE	6.01	333	eP	57	17.00	-0.5
			eS	58	23.00	
PPD	16.06	94	eP	59	24.80	-1.0
			e	59	27.50	
VAO	20.05	97	eP	00	09.90	0.8

S.D. = 1.1 on 8 of 8 obs.

* OCT 13, 1990 06h 24m 34.98±0.69s
31.751 S ± 10.7km 70.852 W ± 11.5km
DEPTH = 121.5 ± 15.8 km

CHILE-ARGENTINA BORDER REGION (127)

JACH	0.95	167	iPc	24	56.70	-0.4
			iS	25	12.50	
RTBS	1.20	86	iPd	24	59.10	-0.3
ROCH	1.22	186	iPc	24	59.30	-0.7
			iS	25	17.00	
PEL	1.40	174	iPc	25	01.90	0.2
			iS	25	21.70	
SAN	1.70	175	iPc	25	05.80	0.5
			iS	25	26.50	
			iS	25	28.00	
RTCB	1.77	82	iPd	25	05.70	-0.5
			e(S)	25	29.00	
LCCB	1.82	199	iPc	25	06.50	-0.2
			iS	25	27.50	
PCH	1.89	171	iPc	25	08.00	0.4
			iS	25	35.00	
RTCV	1.97	94	eP	25	09.00	0.3
MDZ	2.04	124	eP	25	11.80	2.3
			iS	25	37.40	
RTLL	2.08	79	iPc	25	09.00	-1.0
LNV	2.25	192	iPc	25	11.60	-0.5
			i	25	36.50	
			iS	25	40.00	
CYA	5.48	54	e(P)	25	51.50	-4.1X
CNCB	15.10	11	P	28	04.00	0.3
LPB	15.36	10	eP	28	09.00	2.2
ZOBO	15.61	10	P	28	09.00	-1.1
PPD	19.91	66	eP	28	57.90	-1.3

S.D. = 1.2 on 16 of 17 obs.

* OCT 13, 1990 06h 49m 52.92±0.43s
43.156 N ± 5.2km 0.392 W ± 3.9km
DEPTH = 10.0km (geophysicist)

PYRENEES (378)

ML 2.7 (LDG).

OGE	0.06	282	Pg	49	54.63	-0.6
			Sg	49	57.49	
JAU	0.12	172	Pg	49	56.48	0.4
			Sg	50	00.98	
ESCF	0.15	240	Pg	49	56.71	0.2
			Sg	50	00.57	
ATE	0.24	253	Pg	49	58.79	0.8

LHE	0.30	215	Pg	49	59.57	0.4
MADF	0.31	268	Pg	49	58.99	-0.4
			Sg	50	04.41	
ISSF	0.32	247	Pg	49	59.12	-0.5
			Sg	50	00.77	
BOH	0.46	264	Pg	50	01.89	-0.4
			Sg	50	08.98	
EPF	0.55	103	Pg	50	03.20	-1.0
			Sg	50	12.00	
LPO	1.91	36	Pg	50	25.00	-0.7
			Sg	50	48.80	
LFF	1.96	24	Pg	50	26.80	0.3
			Sg	50	51.60	
CAF	2.50	44	Pg	50	35.00	0.6
RJF	2.55	32	Pg	50	35.60	0.6
			Sg	51	04.20	

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

OCT 13, 1990 07h 22m 45.00±0.73s
38.726 N ± 6.9km 22.143 E ± 7.7km
DEPTH = 5.0km (geophysicist)

GREECE (364)

ML 3.0 (ATH).

EVR	0.32	306	iPg	22	50.60	-0.9
NEO	1.02	55	ePg	23	04.60	-0.2
			eSg	23	20.00	
VLS	1.34	246	ePb	23	10.00	-0.2
ATH	1.45	121	ePn	23	13.00	1.1
			eSb	23	29.80	
ITM	1.55	186	ePn	23	14.00	0.6
KZN	1.60	350	ePb	23	13.60	-0.5
PLG	1.93	31	ePn	23	17.60	-1.2
KEK	2.07	299	ePg	23	24.60	3.8X
VLI	2.10	162	ePn	23	20.00	-1.3
OHR	2.60	337	ePn	23	31.00	2.6

S.D. = 1.5 on 9 of 10 obs.

* OCT 13, 1990 07h 33m 57.68±0.63s
40.289 N ± 5.5km 29.453 E ± 6.1km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.6 (ISK).

IZI	0.05	17	iPg	34	00.10	0.2
YLV	0.28	348	iPg	34	04.10	0.4
GPA	0.65	90	ePg	34	10.00	-0.8
DST	0.93	223	iPg	34	15.00	-0.5
CTT	1.16	318	iPn	34	19.10	-0.2
BNT	1.17	274	ePn	34	19.60	0.0
ALT	1.33	157	ePn	34	23.20	0.9

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

OCT 13, 1990 07h 36m 45.12±0.75s
38.280 N ± 6.5km 22.127 E ± 8.4km
DEPTH = 10.0km (geophysicist)

GREECE (364)

ML 2.9 (ATH).

EVR	0.68	339	iPg	36	57.00	-1.7
ITM	1.11	188	ePg	37	06.00	0.0
VLS	1.22	266	ePb	37	07.00	-0.8
ATH	1.29	103	ePb	37	07.60	-1.4
NEO	1.34	40	ePg	37	10.00	0.2
VLI	1.69	157	ePg	37	16.00	1.2
KZN	2.04	352	ePn	37	21.00	1.0
KEK	2.31	309	ePg	37	34.20	10.4X
PLG	2.33	26	ePn	37	23.50	-0.6
OHR	3.01	340	ePn	37	38.20	4.5X
SKO	3.73	352	ePn	37	45.90	2.0

S.D. = 1.4 on 9 of 11 obs.

* OCT 13, 1990 07h 44m 39.91±1.23s
15.793 N ± 18.0km 93.467 W ± 14.2km
DEPTH = 80.9km (2 depth phases)
4.2mb (1 obs.)

NEAR COAST OF CHIAPAS, MEXICO (69)

SCX	1.23	40	iPc	45	04.17	2.0
			iS	45	22.48	
TPX	1.46	127	eP	45	03.74	-1.4
			(S)	45	28.44	
EVV	3.20	326	eP	45	28.12	-0.8
			(S)	46	08.55	
LVVM	4.84	325	iP	45	49.70	-2.2
			iS	46	44.73	

IIT	5.63	305	(P)	46	05.25	2.2X
			iS	47	10.50	
PPM	5.90	304	eP	46	10.06	2.9X
			(S)	47	30.76	
ACX	6.23	281	(P)	46	19.00	7.8X
IIJ	7.14	304	(P)	46	26.00	1.8
MRX	8.32	299	(P)	46	41.50	1.5
MEO	19.46	347	eP	49	00.50	-2.4
SIO	20.03	353	e(P)	49	09.20	0.4
TUL	20.14	355	eP	49	13.50	3.5X
	0.7s	9.30nm			4.2mb	
ACO	21.43	347	eP	49	23.70	0.7
ALQ	22.35	331	eP	49	32.30	0.0
ANMO	22.35	331	P	49	32.50	0.2
			pP	49	50.50	82km
TNP	30.51	321	(P)	50	46.30	-1.5
			pP	51	05.00	80km
PNT	39.64	333	eP	52	23.00	17.7X
INK	58.33	344	eP	54	25.00	-3.4X
MBC	61.97	353	eP	54	50.00	-3.2X
GBA	149.44	18	PKPd	04	19.20	1.8

S.D. = 1.7 on 13 of 20 obs.

? OCT 13, 1990 09h 52m 04.42±0.97s
39.164 N ± 7.7km 27.592 E ± 13.2km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.5 (ISK).

IZM	0.81	199	ePg	52	20.10	0.0
			eSg	52	31.60	
DST	0.92	61	iPg	52	22.00	0.0
			eSg	52	36.00	
BNT	1.22	12	ePn	52	27.00	-0.1
KGT	1.31	350	iPn	52	28.60	0.0

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

? OCT 13, 1990 09h 54m 40.07±0.96s
39.129 N ± 8.3km 27.675 E ± 9.5km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.3 (ISK).

IZM	0.80	204	ePg	54	55.60	0.0
			eSg	55	06.00	
DST	0.88	57	ePn	54	57.00	0.0
BNT	1.24	9	iPn	55	03.10	0.0
EZN	1.26	304	ePn	55	03.40	0.0

S.D. = 0.0 on 4 of 4 obs.

? OCT 13, 1990 10h 13m 14.73±7.91s
25.126 N ± 42.5km 127.020 E ± 51.7km
DEPTH = 205.8 ± 47.0 km
4.2mb (1 obs.)

RYUKYU ISLANDS (238)

SSE	7.87	320	Pc	15	07.20	0.0
	1.2s	22.00nm			4.2mb	
Z	16s	0.60um				
E	10s	0.60um				
BJI	17.43	331	eP	17	08.00	1.5
TIY	17.65	319	eP	17	08.60	-0.3
Z	14s	0.70um				
N	14s	0.40um				
XAN	18.05	304	eP	17	12.40	-0.9
GYA	18.38	279	P	17	28.60	11.8X
CN2	18.67	356	eP	17	19.00	-0.6
CO2	21.31	291	eP	17	54.40	8.2X
KMI	21.98	275	eP	18	07.00	14.1X
			eS	20	18.00	
			eP	17	12.40	-0.9
			eP	17	28.60	11.8X
			eP	17	19.00	-0.

EZN 1.24 276 ePn 23 28.00 0.5
BNT 1.28 10 iPn 23 27.50 -0.8
S.D. = 1.1 on 4 of 4 obs.

% OCT 13, 1990 10h 23m 14.33± 2.47s
23.150 N ±17.3km 121.703 E ±21.6km
DEPTH = 33.0km (normol)

TAIWAN (244)

TWF1 0.42 298 iPc 23 23.70 -0.1
eS 23 30.90
TWG 0.67 241 iPd 23 27.20 -0.1
TWD 0.93 354 ePd 23 30.80 -0.2
TWK 1.12 276 eP 23 34.10 0.3
TWC 1.46 5 ePc 23 38.80 0.2
S.D. = 0.3 on 5 of 5 obs.

OCT 13, 1990 11h 14m 33.15± 0.29s
2.225 S ± 4.5km 80.044 W ± 4.0km
DEPTH = 75.6km (2 depth phases)
5.0mb (10 obs.)

NEAR COAST OF ECUADOR (105)
Felt at Guayaquil and (1) at
Quito.

TUNG 1.79 63 iP 15 02.80 -0.1
VC1 2.28 46 iPd 15 11.00 1.2
OTO 2.52 37 eP 15 13.50 0.5
S 15 45.00
OUR 2.54 37 ePn 15 13.30 -0.1
iPg 15 14.80
YANA 2.56 35 P+ 15 14.00 0.3
COTA 3.06 34 P 15 21.00 0.3
eS 16 10.00
CAYA 3.08 42 P 15 21.70 0.7
ANGL 3.09 54 eP 15 28.80 7.8X
UPA 11.14 3 ePc 17 15.00 3.3X
ARE 16.46 150 eP 18 37.00 15.8X
GUAC 17.72 46 eP 18 38.00 1.4
OLLA 17.94 47 eP 18 37.50 -1.8
ZOBO 18.23 141 P 18 43.00 -0.4
1.0s 20.00nm 4.3mb

LLAV 10.24 46 eP 18 42.50 -0.5
LPB 18.45 141 P 18 46.00 0.2
CNCB 18.73 141 P 18 49.50 0.2
CUM 20.21 51 iP 19 03.00 -1.5
CCH 20.33 139 eP 19 07.00 0.9
SIV 23.16 127 P 19 33.80 -0.1
TUL 40.69 340 eP 22 07.90 0.1
1.2s 22.30nm 4.9mb
MEO 40.72 336 iPc 22 07.80 -0.3
SIO 40.72 340 eP 22 07.80 -0.3
ACO 42.61 337 ePd 22 24.50 0.9
0.7s 35.50nm 5.3mb
CAI 42.90 97 e(P) 22 23.80 -3.1X
ALO 44.50 329 eP 22 39.40 0.2
1.0s 28.75nm 5.1mb

ANMO 44.50 329 P 22 40.10 0.9
1.0s 30.00nm 5.1mb
GOL 47.76 334 P 23 04.60 -0.3
0.7s 4.61nm 4.5mb
GLA 40.06 320 eP 23 08.00 0.9
BAR 49.04 318 eP 23 15.00 0.4
TPC 49.52 320 eP 23 19.00 0.7
PLM 49.57 319 eP 23 20.00 1.1
RVR 50.31 319 eP 23 25.00 0.8
GSC 50.76 321 eP 23 29.00 1.3
MWC 50.89 319 eP 23 29.00 0.1
SBB 51.03 320 eP 23 29.00 -0.8
DAU 51.12 329 P 23 30.90 0.2
CLC 51.58 321 eP 23 34.00 0.0
DUG 51.77 328 P 23 35.60 0.2
0.9s 5.83nm 4.6mb

ISA 52.04 320 eP 23 38.00 0.5
TNP 52.00 323 P 23 43.20 0.0
e 24 02.90 78km
CMB 54.71 321 eP 23 57.10 0.0
ORV 56.32 322 P 24 08.80 0.2
e 24 27.50 73km
MIN 56.87 323 eP 24 11.70 -1.0
WDC 57.58 322 eP 24 15.30 -2.1
LBFM 57.65 324 P 24 18.00 -0.2
SES 58.76 337 eP 24 24.00 -1.6
PNT 61.65 332 eP 24 45.00 -0.3
0.8s 16.00nm 5.2mb

EDM 61.88 338 eP 24 45.50 -1.3
KIC 75.66 83 P 26 12.00 -0.6
INK 79.32 342 eP 26 31.00 -0.7
MBC 81.51 351 ePd 26 43.40 0.2
0.8s 12.00nm 4.9mb
SPA 87.79 180 iPd 27 15.90 0.9
1.1s 17.86nm 5.1mb
SSE 144.97 327 PKPc 34 02.40 -1.4
1.0s 35.00nm
S.D. = 0.8 on 49 of 53 obs.

* OCT 13, 1990 11h 23m 51.75± 2.96s
26.729 N ±12.7km 126.388 E ±15.8km
DEPTH = 78.2 ± 26.6 km
4.4mb (5 obs.)

RYUKYU ISLANDS (238)

OZH 7.25 258 eP 25 38.00 1.0
WHN 11.24 293 eP 26 30.50 -0.9
SNY 15.24 352 eP 27 24.80 1.1
Z 15s 0.80um
BJI 15.76 330 eP 27 28.00 -2.3
1.5s 39.00nm 4.3mb
Z 16s 0.41um 4.5msz
E 10s 0.30um

TIY 16.08 316 eP 27 34.00 -0.5
Z 13s 0.80um
N 12s 0.60um

CN2 17.05 358 eP 27 50.00 3.6X
1.0s 15.00nm 4.2mb
Z 12s 0.60um 4.9msz
pP 27 54.00

GYA 17.65 274 P 27 55.80 1.8
N 10s 0.60um
E 10s 0.40um

MDJ 18.03 7 eP 28 00.00 1.5
MHC 18.67 323 eP 28 05.00 -1.4
Z 14s 0.50um
N 12s 0.40um
E 12s 0.40um

BTO 19.37 320 eP 28 13.00 -1.0
N 13s 0.50um
E 13s 0.30um

CD2 20.25 287 P 28 22.60 -0.6
KMI 21.33 271 P 28 35.50 1.2
2.0s 50.00nm 4.5mb
Z 10s 0.70um 4.4mszX

pP 28 40.00 16kmX
LZH 21.34 301 eP 28 34.00 -0.3
2.0s 54.00nm 4.6mb
Z 18s 0.49um 3.9msz
E 13s 0.35um

pP 28 42.50 31kmX
PP 29 04.00
GTA 25.51 306 eP 29 14.40 -0.2
1.0s 10.00nm 4.3mb
Z 16s 0.50um 4.1mszX
E 10s 0.20um

eS 33 43.00
CHTO 26.46 258 (P) 29 24.20 0.8
WMO 35.52 309 eP 30 43.50 0.5
Z 14s 0.30um 4.2mszX

WB5 46.97 170 eP 32 14.20 -2.6
e 33 54.00
SES 87.96 33 eP 36 36.00 1.8
S.D. = 1.5 on 17 of 18 obs.

? OCT 13, 1990 12h 51m 03.49± 1.07s
39.185 N ± 8.0km 27.480 E ±14.6km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.5 (ISK).

IZM 0.80 192 ePg 51 19.20 0.1
iSg 51 31.20
DST 0.98 64 iPn 51 21.90 -0.3
BNT 1.22 16 ePn 51 27.00 0.8
KGT 1.27 354 iPn 51 26.50 -0.6
S.D. = 1.1 on 4 of 4 obs.

OCT 13, 1990 12h 54m 31.49± 0.56s
40.028 N ± 4.7km 23.714 E ± 5.0km
DEPTH = 10.0km (geophysicist)

GREECE (364)
ML 3.4 (ATH), 3.0 (THE).

OUR 0.37 34 ePd 54 40.14 1.1
eS 54 46.30
PLG 0.40 329 iPg 54 39.00 -0.7
NEO 0.81 208 ePb 54 47.00 -0.3
THE 0.83 317 ePd 54 48.78 1.2
eS 54 57.82
SOH 0.84 341 ePc 54 48.06 0.3
eS 55 00.14
LIT 0.94 275 ePd 54 48.66 -0.8
eS 55 01.38
SRS 1.09 355 ePd 54 53.70 1.7
eS 55 08.02
KNT 1.29 332 ePc 54 56.14 0.7
eS 55 12.98
GRG 1.37 313 ePd 54 57.06 0.5
AGG 1.47 227 ePc 54 57.46 -0.6
KZN 1.52 281 ePb 54 58.10 -0.6
MMB 1.56 0 ePg 54 59.00 -0.3
RDO 1.78 51 ePb 55 00.30 -2.2
RZN 1.82 24 eP 55 03.00 -0.3
EVR 1.85 234 ePg 55 07.80 4.3X
KKB 1.90 346 iPd 55 04.00 -0.2
FNA 1.94 294 ePc 55 04.22 -0.6
ALN 1.98 63 ePd 55 05.42 0.0
ATH 2.05 180 ePn 55 08.60 2.2
KDZ 2.07 38 iPc 55 06.00 -0.7
PRK 2.12 111 ePg 55 13.00 5.5X
OHR 2.47 297 ePn 55 12.30 -0.2
S.D. = 1.1 on 20 of 22 obs.

? OCT 13, 1990 13h 35m 38.06± 2.92s
36.314 N ±23.6km 70.601 E ±22.4km
DEPTH = 79.5 ± 30.6 km
4.2mb (2 obs.)

HINDU KUSH REGION (710)

MAIO 8.97 273 ePn 37 47.00 0.0
eSn 39 07.00
NDI 9.44 142 iPd 37 53.50 0.2
0.5s 42.25nm 5.6mb X
iS 39 30.00
HYB 20.10 157 eP 40 06.50 -1.3
GBA 23.43 163 P 40 42.00 1.2
S 46 02.00
HFS 43.02 322 eP 43 30.70 -0.2
0.4s 2.20nm 4.3mb
NB2 44.34 323 P 43 41.80 0.2
0.6s 1.40nm 4.0mb
S.D. = 1.3 on 6 of 6 obs.

OCT 13, 1990 13h 58m 35.42± 0.31s
40.683 N ± 3.1km 23.399 E ± 3.1km
DEPTH = 10.0km (geophysicist)
3.6mb (1 obs.)

GREECE (364)
ML 3.8 (ATH), 3.6 (THE).

SOH 0.14 346 ePc 58 39.12 0.3
PLG 0.31 173 iPg 58 41.80 -0.1
THE 0.33 261 iPc 58 41.80 -0.5
eS 58 46.44
SRS 0.46 19 iPc 58 44.53 -0.2
eS 58 51.84
OUR 0.56 128 ePd 58 46.64 -0.2
eS 58 54.72
KNT 0.61 322 ePd 58 47.32 -0.4
eS 58 55.08
GRG 0.80 290 ePd 58 50.40 -0.7
eS 59 02.56
LIT 0.91 230 ePc 56 52.44 -0.3
eS 59 05.44
MMB 0.94 15 iPg 58 53.00 -0.4
KKB 1.21 349 iPc 58 58.00 0.1
KZN 1.30 254 ePb 58 58.70 -0.8
NEO 1.38 186 iPbd 59 00.60 -0.1
RZN 1.41 44 iPg 59 03.00 1.7
FNA 1.54 274 ePc 59 03.68 0.7
RDO 1.69 73 ePb 59 05.00 0.0
PLD 1.73 34 eP 59 07.00 1.4
KDZ 1.80 57 iP 59 06.00 -0.8
AGG 1.85 207 ePd 59 07.80 0.3
VTS 1.91 356 iP 59 10.00 1.5
SKO 1.96 312 iPn 59 09.80 0.6
iPg 59 11.70
i 59 16.40
iSn 59 33.70
iSg 59 36.70

13d 13h

OHR	2.02	283	iPn	59	39.60	0.7
			iSn	59	10.60	
ALN	2.02	83	ePd	59	09.60	-0.3
			iS	59	36.98	
EVR	2.15	215	ePn	59	12.00	0.1
EZN	2.40	110	ePn	59	19.00	3.7X
PRK	2.63	122	ePb	59	26.00	7.3X
ATH	2.72	175	ePg	59	31.70	11.8X
KEK	2.92	252	ePb	59	25.00	2.2
MFT	2.95	87	ePn	59	22.50	-0.8
VLS	3.32	222	ePn	59	32.00	3.6X
BNT	3.46	94	ePn	59	41.00	10.6X
DMK	3.48	69	ePn	59	41.00	10.3X
ITM	3.68	199	ePn	59	38.10	4.5X
VLI	3.97	185	ePn	59	38.10	0.4
BZS	5.10	346	ePc	59	52.00	-1.6
MGR	6.01	267	P	00	06.00	-0.5
SGO	6.16	271	P	00	08.00	-0.6
NB2	21.71	344	P	03	26.60	-1.8

0.8s 2.30nm 3.6mb
S.D. = 0.9 on 30 of 37 obs.

OCT 13, 1990 14h 03m 20.07 ± 0.29s
40.693 N ± 2.9km 23.393 E ± 2.9km
DEPTH = 7.9 ± 2.5 km
3.8mb (1 obs.)
GREECE (364)
ML 3.7 (THE), 3.7 (ATH).

SOH	0.13	347	ePd	03	23.84	0.8
PLG	0.32	173	iPg	03	26.00	-0.6
THE	0.33	260	iPc	03	26.48	-0.4
			eS	03	31.04	
SRS	0.45	19	ePc	03	29.32	0.2
			eS	03	35.28	
OUR	0.57	128	iPd	03	31.40	-0.2
			eS	03	39.52	
KNT	0.60	321	ePc	03	32.00	-0.1
			eS	03	38.80	
GRG	0.80	290	iPd	03	35.04	-0.7
			eS	03	46.84	
LIT	0.91	230	ePc	03	37.04	-0.6
			eS	03	50.12	
MMB	0.93	16	iPg	03	37.00	-1.1
			iSg	03	50.00	
KKB	1.20	349	iPc	03	42.00	-0.6
KZN	1.30	253	ePb	03	43.60	-0.7
NEO	1.39	185	iPbd	03	45.00	-0.8
RZN	1.41	45	iPg	03	48.00	1.8
FNA	1.54	274	ePc	03	48.44	0.6
RDO	1.69	74	ePb	03	50.00	0.0
PLD	1.72	34	ePc	03	52.00	1.5
			iSg	04	18.00	
KDZ	1.80	57	iPd	03	51.00	-0.7
AGG	1.86	206	ePd	03	52.48	0.0
VTS	1.90	356	iPc	03	54.00	0.7
PGB	1.94	17	eP	03	54.00	0.2
SKO	1.95	312	iPn	03	54.00	0.2
			iPb	03	56.20	
			iPg	03	57.20	
			i	04	00.20	
			iSn	04	20.00	

OHR	2.01	283	iPnd	03	55.50	0.8
			iSn	04	20.10	
ALN	2.02	83	ePd	03	56.36	1.5
EVR	2.15	215	ePn	03	56.60	-0.3
EZN	2.40	110	ePn	03	59.90	-0.4
PRK	2.64	122	ePg	04	12.00	8.3X
ATH	2.73	175	ePb	04	10.00	5.0X
PVL	2.91	29	iPc	04	06.00	-1.5
KEK	2.92	252	ePn	04	09.10	1.4
MFT	2.96	87	ePn	04	07.50	-0.8
JMB	2.98	52	eP	04	10.00	1.5
KGT	2.99	93	iPn	04	07.00	-1.6
VLS	3.32	222	ePn	04	15.20	1.8
BNT	3.47	94	ePn	04	10.00	-5.4X
DMK	3.48	70	eP	04	24.00	8.4X
ITM	3.69	199	ePn	04	20.00	1.4
VLI	3.98	185	ePn	04	22.70	-0.1
BZS	5.09	346	ePc	04	36.50	-1.9
MLR	5.15	20	eP	04	40.00	0.6
CFR	5.69	36	eP	04	55.00	8.1X
MGR	6.01	267	P	04	51.00	-0.4
SGO	6.15	271	P	04	53.50	0.1
NB2	21.70	344	P	08	12.00	-1.3

0.8s 3.10nm 3.8mb

S.D. = 1.0 on 38 of 43 obs.

OCT 13, 1990 14h 06m 35.64 ± 0.37s
40.694 N ± 3.6km 23.356 E ± 3.7km
DEPTH = 9.7 ± 3.4 km

GREECE (364)
ML 3.3 (THE), MD 3.3 (ATH).

SOH	0.13	359	iPc	06	38.80	0.1
			eS	06	41.04	
THE	0.30	258	ePc	06	41.52	-0.4
			eS	06	46.04	
PLG	0.33	168	ePg	06	41.50	-0.9
SRS	0.46	23	iPc	06	44.44	-0.5
			eS	06	50.48	
KNT	0.58	324	eP	06	47.00	-0.4
			eS	06	54.84	
OUR	0.60	127	ePd	06	46.72	-1.0
			eS	06	54.96	
GRG	0.77	290	ePd	06	50.24	-0.5
			eS	07	02.24	
LIT	0.89	228	iPd	06	52.12	-0.6
			eS	07	04.80	
MMB	0.94	17	iPg	06	52.00	-1.6
KKB	1.19	350	iPc	06	57.00	-0.9
KZN	1.27	253	ePb	06	59.00	-0.3
NEO	1.39	184	ePb	07	00.40	-0.7
RZN	1.43	45	iPg	07	03.00	1.2
FNA	1.51	274	ePc	07	03.40	0.6
RDO	1.71	74	ePb	07	06.00	0.3
KDZ	1.83	58	eP	07	06.00	-1.4
AGG	1.85	206	ePc	07	07.64	-0.1
VTS	1.90	357	ePc	07	10.00	1.4
SKO	1.93	312	iPn	07	09.50	0.7
			iPb	07	11.40	
			iPg	07	12.50	
			iSn	07	34.90	

OHR	1.98	283	iPn	07	10.30	0.6
			iSn	07	35.30	
ALN	2.05	83	eP	07	10.20	-0.4
EVR	2.14	214	ePn	07	12.00	0.0
EZN	2.43	110	ePn	07	21.00	4.9X
PRK	2.67	122	ePg	07	27.00	7.6X
ATH	2.73	174	ePb	07	26.00	5.6X
KEK	2.90	251	ePg	07	30.00	7.3X
MFT	2.98	87	ePn	07	26.00	2.0
VLS	3.30	221	ePn	07	32.00	3.5X
ITM	3.68	198	ePn	07	38.70	4.8X
VLI	3.98	185	ePn	07	40.00	1.9

S.D. = 1.0 on 24 of 30 obs.

OCT 13, 1990 14h 33m 49.94 ± 0.74s
39.996 N ± 5.3km 23.675 E ± 6.2km
DEPTH = 10.0km (geophysicist)

AECEAN SEA (365)
ML 2.9 (THE), MD 2.9 (ATH).

OUR	0.41	35	iPc	33	58.76	0.4
			eS	34	04.16	
PLG	0.42	335	iPbc	33	57.50	-1.0
NEO	0.77	207	iPnc	34	06.00	1.0
			eSn	34	17.00	
THE	0.84	320	ePc	34	05.56	-0.5
SOH	0.86	344	ePc	34	06.44	-0.1
LIT	0.92	277	iPd	34	07.30	-0.2
			iS	34	20.08	
SRS	1.12	357	ePd	34	11.00	0.8
KNT	1.31	333	ePc	34	14.36	0.3
GRG	1.37	315	iPc	34	15.62	0.6
KZN	1.49	283	ePb	34	17.00	0.1
EVR	1.80	234	ePn	34	20.00	-1.4
RDO	1.83	50	ePn	34	20.70	-0.9
OHR	2.46	298	e(Pn)	34	31.50	0.7

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

OCT 13, 1990 14h 44m 06.64 ± 4.63s
26.495 N ± 23.4km 126.325 E ± 27.0km
DEPTH = 86.1 ± 34.3 km
4.7mb (3 obs.)

RYUKYU ISLANDS (238)

SSE	6.43	317	eP	45	41.20	0.7
			Z 12s	1.50um		
			E 10s	1.50um		
OZH	7.14	259	eP	45	52.00	1.6
WHN	11.28	294	eP	46	44.00	-2.5
			N 11s	1.30um		

SNY	E 11s	0.90um			
	15.46	352	eP	47	38.80 -2.2
Z 14s	1.10um				
N 13s	0.70um				
BJI	15.94	330	eP	47	49.00 2.1
	2.0s	44.00nm			4.3mb
Z 16s	0.46um				4.2msz
N 12s	0.45um				
TIY	16.21	317	eP	47	50.00 -0.6
Z 15s	1.20um				
N 11s	0.60um				
CN2	17.28	358	eP	48	04.00 0.3
Z 14s	0.90um				
N 13s	0.50um				
E 13s	0.40um				
		pP		48	08.00
		eS		51	17.00
GYA	17.61	274	P	48	07.80 -0.1
MDJ	18.27	7	eP	48	15.00 -0.9
HHC	18.83	323	eP	48	24.60 2.2

Z 13s	1.90um				
N 11s	0.90um				
E 12s	0.40um				
BTO	19.51	320	eP	48	30.50 0.8
N 13s	0.70um				
E 13s	0.40um				
		eS		52	12.00
KMI	21.27	272	eP	48	46.00 -2.0
	2.0s	70.00nm			4.7mb
LZH	21.42	302	eP	49	00.00 10.7X
	2.0s	61.00nm			
Z 16s	0.70um				4.2mszX
E 14s	1.00um				
		pP		49	07.00 25kmX
		sP		49	12.00
		PP		49	21.50
		eS		52	42.00
		sS		53	00.00
CHTO	26.36	259	(P)	49	36.50 -0.1
FFC	29.10	26	eP	56	54.00 0.6
	0.7s	8.00nm			5.0mb

S.D. = 1.7 on 14 of 15 obs.

* OCT 13, 1990 15h 53m 17.37 ± 0.51s
23.281 S ± 26.0km 179.844 W ± 9.7km
DEPTH = 500.0km (geophysicist)
4.7mb (14 obs.)

SOUTH OF FIJI ISLANDS (171)

BRS	25.06	255	IP	58	05.40	2.4
TPT	31.49	81	eP	59	00.00	1.1
	0.8s	20.00nm				4.7mb
CTA	31.62	269	iPd	59	01.80	1.7
	0.6s	80.00nm				5.4mb
RUV	31.63	81	eP	59	01.00	0.9
	0.8s	15.00nm				4.6mb
PMG	34.44	288	iPd	59	24.60	0.9
	0.9s	67.23nm				5.2mb
ASPA	42.28	260	iPd	00	28.00	0.2
	0.6s	28.30nm				5.0mb
WB5	42.58	266	iPd	00	30.10	0.0
MTN	47.55	274	iPc	01	08.00	-0.7
	0.4s	64.00nm				5.4mb
WARB	48.41	255	iPd	01	14.80	-0.3
	0.4s	5.00nm				4.3mb
KNA	48.81	269	iPd	01	17.80	-0.4
	0.4s	13.00nm				4.7mb
KLB	55.36	247	eP	02	05.00	-0.4
	0.5s	14.00nm				4.5mb
MBL	55.53	260	iPd	02	05.80	-1.0
	0.5s	20.00nm				4.7mb
NWAO	55.62	245	eP	02	07.00	-0.3
	0.4s	3.00nm				4.0mb
BAL	56.39	248	eP	02	12.00	-0.7
	0.6s	11.00nm				4.4mb
MUN	56.61	246	iPd	02	13.80	-0.3
MRWA	57.23	249	eP	02	18.00	-0.4
	0.6s	10.00nm				4.3mb
NANU	59.06	257	iPd	02	30.30	-0.6
	0.4s	23.00nm				5.0mb
TNP	84.71	45	P	04	58.00	-1.2
CHTO	89.59	291	P	05	22.20	-0.1
ANMO	90.47	52	P	05	25.40	-0.9
HFS	141.97	349	ePKP	11	45.50	-7.2X
	0.7s	2.60nm				

? OCT 13, 1990 16h 23m 33.08 ± 4.98s
15.482 N ± 43.7km 97.862 W ± 20.1km
DEPTH = 10.0km (geophysicist)
4.0mb (2 obs.)

NEAR COAST OF OAXACA, MEXICO (66)

ACX	2.36	306	eP	24 10.50	-2.0
			IS	24 41.50	
III	3.26	332	eP	24 25.50	0.0
			eS	25 05.50	
IIT	3.54	353	eP	24 30.50	1.0
			IS	25 15.50	
PPM	3.64	349	iPc	24 30.50	-0.6
			IS	25 16.54	
EVV	3.81	39	(P)	24 36.50	3.4X
			eS	25 22.00	
UNM	4.03	342	(P)	24 45.00	8.6X
			(S)	25 32.50	
CRX	4.27	336	(P)	24 54.00	14.1X
LVVM	4.44	17	(P)	24 39.63	-2.4
			eS	25 37.27	
IJJ	4.59	337	(P)	24 46.00	1.4
MRX	5.26	323	(P)	24 53.50	-0.2
			(S)	26 10.00	
TUL	20.43	5	eP	28 13.00	0.6
	1.0s		5.70nm		3.9mb
ALO	20.86	340	eP	28 19.00	1.1
	1.0s		8.00nm		4.0mb
ANMO	20.86	340	P	28 19.10	1.2
					S.D. = 1.5 on 10 of 13 obs.

OCT 13, 1990 19h 51m 37.29 ± 0.52s
40.662 N ± 4.1km 23.342 E ± 4.9km
DEPTH = 10.0km (geophysicist)

GREECE (364)
MD 2.7 (ATH). ML 2.2 (THE).

SOH	0.16	3	ePd	51 40.48	-0.5
			eS	51 43.17	
THE	0.29	264	iPd	51 43.00	-0.2
			eS	51 47.44	
PLG	0.30	165	ePb	51 42.90	-0.6
			eSb	51 47.50	
SRS	0.49	23	ePc	51 48.16	0.9
			IS	51 53.34	
OUR	0.59	124	ePd	51 49.44	0.3
KNT	0.60	326	iPd	51 48.00	-0.7
			IS	51 56.60	
GRG	0.77	293	ePc	51 52.16	-0.2
			IS	52 03.52	
LIT	0.86	230	ePc	51 54.16	0.3
			IS	52 05.74	
KZN	1.25	254	ePb	52 01.60	1.0
			eSb	52 20.00	
NEO	1.36	184	ePb	52 02.00	-0.2
					S.D. = 0.7 on 10 of 10 obs.

OCT 13, 1990 20h 07m 27.96 ± 0.80s
42.955 N ± 5.4km 13.572 E ± 9.6km
DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)

AQU	0.61	192	P	07 39.70	-0.7
			eSg	07 50.50	
ASS	0.68	280	P	07 40.20	-1.3
			eSg	07 51.50	
ARV	0.71	320	P	07 40.50	-1.5
			eSg	07 52.20	
MNS	0.87	229	P	07 45.50	0.8
			eSg	07 58.40	
AZI	0.97	186	P	07 48.00	1.6
SDI	1.26	172	P	07 50.40	-1.0
			eSn	08 08.00	
RSM	1.27	320	P	07 52.60	1.1
			eSn	08 11.50	
CRE	1.36	300	P	07 53.00	0.0
DUI	1.45	153	P	07 54.00	-0.3
			eSg	08 14.00	
SFI	1.58	308	P	07 56.50	0.5
PGD	1.63	305	P	07 57.50	0.5
TRI	2.76	3	eP	08 13.30	0.3
			i	08 24.90	
					S.D. = 1.1 on 12 of 12 obs.

OCT 13, 1990 20h 15m 13.91 ± 1.26s
4.282 N ± 8.2km 95.300 E ± 5.8km
DEPTH = 76.1 ± 11.1 km

5.0mb (12 obs.)
NORTHERN SUMATERA (706)

IPM	5.72	87	ePc	16 38.40	0.3
	0.8s		104.20nm		5.2mb
SNG	6.02	61	iPc	16 43.00	0.7
	1.0s		430.00nm		5.7mb
NNT	9.35	28	eP	17 26.40	-1.7
			e	19 09.00	
BDT	13.38	15	eP	18 26.00	4.0X
LOE	14.49	25	eP	18 41.50	5.0X
CHG	14.88	14	ePd	18 41.90	0.4
	1.0s		122.50nm		5.1mb
KOD	18.65	289	eP	19 28.90	0.1
GBA	19.91	299	P	19 41.90	-0.2
			S	23 01.90	
HYB	20.97	310	eP	19 53.50	0.5
	1.0s		70.00nm		4.9mb
KMI	21.92	18	Pc	20 03.50	0.8
	1.0s		100.00nm		5.2mb
GYA	24.59	25	iPc	20 28.80	0.3
POO	25.30	306	eP	20 35.50	0.3
LSA	25.58	352	iP	20 38.00	-0.2
CD2	27.66	16	P	20 55.30	-1.4
WHN	31.71	32	P	21 33.00	0.4
	1.0s		30.00nm		5.0mb
XAN	32.21	22	iPc	21 35.80	-1.2
GTA	35.21	6	eP	22 01.40	-1.5
	0.8s		10.00nm		4.0mb
NJ2	35.37	36	iPc	22 04.50	0.3
SSE	36.12	39	Pc	22 11.20	0.7
	1.0s		10.00nm		4.7mb
TIY	36.78	23	Pd	22 16.30	0.2
BTO	38.51	18	eP	22 30.40	-0.2
KSH	39.15	336	eP	22 37.60	1.6
HMC	39.23	20	eP	22 37.20	0.5
WMO	39.94	351	P	22 42.00	-0.4
BJI	40.28	25	eP	22 46.50	1.4
	1.0s		54.00nm		5.4mb
SNY	45.12	30	iPd	23 24.40	0.0
WB5	45.28	123	eP	23 25.80	-0.3
ASPA	46.77	128	iPc	23 37.50	-0.3
	0.6s		9.60nm		4.9mb
CN2	47.50	30	Pc	23 42.80	-0.4
MDJ	50.18	32	eP	24 04.00	0.2
MAT	50.79	45	(P)	24 08.00	-0.6
OHR	75.53	311	eP	26 50.00	-2.1
BCAO	76.51	274	iPd	26 58.00	-0.1
	0.5s		8.00nm		4.9mb
NUR	76.82	331	eP	27 07.00	8.2X
SOD	77.95	338	eP	27 07.00	2.0
ZST	78.95	318	eP	27 10.80	0.0
LJU	80.52	316	(P)	27 19.50	0.2
VOY	80.97	316	eP	27 21.50	-0.3
HFS	82.12	330	eP	27 26.90	-0.4
	0.9s		4.60nm		4.4mb
					S.D. = 0.9 on 36 of 39 obs.

OCT 13, 1990 20h 26m 52.28 ± 0.57s
39.028 N ± 5.1km 29.716 E ± 5.7km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 3.4 (ISK).

ALT	0.31	85	iPg	26 59.20	0.5
KHL	0.72	192	iPg	27 05.50	-1.0
			iSg	27 14.00	
DST	1.02	305	iPn	27 10.70	-0.9
IZI	1.32	352	iPn	27 16.80	0.1
GPA	1.34	20	iPn	27 17.20	0.2
YLV	1.56	350	iPn	27 19.30	-0.9
KCT	1.61	320	iPn	27 20.80	0.0
BCK	1.71	156	ePn	27 22.00	-0.3
BNT	1.92	314	iPn	27 24.90	-0.4
EDC	1.94	313	ePn	27 25.00	-0.7
IZM	2.02	253	ePn	27 29.00	2.2
ISK	2.10	346	ePn	27 28.80	1.0
CTT	2.34	335	ePn	27 35.30	4.0X
BBTK	2.49	70	eP	27 41.00	7.3X
			eS	28 19.00	
EZN	2.74	288	iPn	27 37.50	0.4
					S.D. = 1.0 on 13 of 15 obs.

OCT 13, 1990 20h 51m 02.00 ± 0.44s
40.695 N ± 4.0km 23.313 E ± 4.3km
DEPTH = 10.0km (geophysicist)

GREECE (364)
MD 2.9 (ATH). ML 2.7 (THE).

SOH	0.13	14	iPc	51 06.10	0.1
			eS	51 09.20	
THE	0.27	257	iPd	51 08.80	0.3
			eS	51 13.10	
PLG	0.34	162	iPgc	51 08.50	-1.3
			eSg	51 13.00	
SRS	0.47	27	ePc	51 11.60	-0.8
KNT	0.56	326	ePc	51 14.20	0.0
			IS	51 22.00	
OUR	0.62	125	eP	51 14.90	-0.4
GRG	0.74	291	eP	51 17.80	0.5
			IS	51 29.40	
LIT	0.86	227	ePc	51 19.40	0.0
			IS	51 31.90	
MMB	0.95	19	iPgc	51 20.00	-0.9
KKB	1.18	352	eP	51 24.00	-0.9
KZN	1.24	252	ePb	51 26.00	0.1
			eSb	51 46.20	
NEO	1.39	183	ePb	51 28.30	0.1
			eSb	51 46.30	
RZN	1.45	46	iPgc	51 30.00	0.0
FNA	1.47	274	ePc	51 30.90	1.5
RDO	1.75	74	ePn	51 35.60	2.3
AGG	1.83	205	ePc	51 34.60	0.0
SKO	1.90	313	ePn	51 40.20	4.6X
OHR	1.95	283	ePn	51 35.00	-1.3
					S.D. = 1.0 on 17 of 18 obs.

OCT 13, 1990 20h 58m 38.51 ± 0.70s
40.683 N ± 6.3km 23.336 E ± 7.9km
DEPTH = 10.0km (geophysicist)

GREECE (364)
MD 2.9 (ATH).

PLG	0.32	165	iPgc	50 44.30	-0.9
MMB	0.95	18	iPgc	50 55.00	-1.7
KKB	1.20	351	iPc	50 00.00	-0.8
KZN	1.25	253	ePb	50 03.00	1.2
			eSb	50 22.00	
NEO	1.38	184	ePb	50 03.10	-0.7
			eSb	50 23.00	
RZN	1.45	46	iPgc	50 05.00	0.1
RDO	1.73	74	ePn	50 11.00	2.2
SKO	1.92	313	ePn	50 13.20	1.6
			i	50 38.70	
OHR	1.97	283	ePn	50 11.20	-1.1
EVV	2.12	214	ePn	50 14.60	0.0
					S.D. = 1.5 on 10 of 10 obs.

OCT 13, 1990 21h 00m 49.53 ± 0.63s
40.663 N ± 4.9km 23.387 E ± 7.8km
DEPTH = 5.0km (geophysicist)

GREECE (364)
MD 2.9 (ATH).

PLG	0.29	171	ePg	00 55.70	0.2
MMB	0.96	15	iPgc	01 07.00	-1.3

? OCT 13, 1990 21h 06m 22.77±5.59s
16.644 N ±47.7km 99.896 W ±25.7km
DEPTH = 33.0km (normal)
NEAR COAST OF GUERRERO, MEXICO (58)

ACX	0.23	9	iP	06 29.62	-0.1
			iS	06 37.96	
III	1.77	13	eP	06 52.01	0.3
			eS	07 18.86	
PPM	2.70	26	eP	07 04.90	-0.3
			iS	07 43.50	
IIA	2.76	25	eP	07 05.58	0.0
			eS	07 44.96	
UNM	2.76	14	(P)	07 29.50	23.6X
IIT	2.81	32	eP	07 06.50	-0.1
			(S)	07 47.50	
IIJ	3.08	3	(P)	07 16.13	5.5X
			eS	07 51.00	
MRX	3.28	338	(P)	07 20.50	7.4X
			(S)	08 09.00	
LVVM	4.50	46	(P)	07 30.50	0.2
			(S)	08 16.50	

S.D. = 0.3 on 6 of 9 obs.

OCT 13, 1990 21h 16m 57.28±0.48s
40.685 N ±4.4km 23.341 E ±4.6km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 3.0 (THE). MD 3.0 (ATH).

SOH	0.14	4	iPc	17 00.42	-0.2
			eS	17 03.46	
THE	0.29	260	iPc	17 03.06	-0.3
			eS	17 07.62	
PLG	0.32	166	iPgc	17 03.00	-0.9
SRS	0.47	24	ePd	17 05.86	-1.0
KNT	0.58	325	iPc	17 08.53	-0.6
			eS	17 16.34	
OUR	0.60	125	ePd	17 09.26	-0.1
GRG	0.76	291	iPc	17 11.86	-0.4
			eS	17 23.82	
LIT	0.87	228	ePc	17 13.82	-0.3
			eS	17 26.57	
MMB	0.95	18	iPgc	17 14.00	-1.4
KZN	1.26	253	ePb	17 21.00	0.3
			eSg	17 40.00	
NEO	1.38	184	ePb	17 22.60	0.0
RZN	1.44	46	iPgc	17 23.00	-0.6
FNA	1.50	274	ePc	17 24.74	0.5
RDO	1.73	74	ePb	17 30.00	2.5
VTS	1.91	357	iPd	17 31.00	0.7
SKO	1.92	313	ePn	17 32.90	2.5
			i	18 00.20	
OHR	1.97	283	ePn	17 30.00	-1.2
EVR	2.12	214	ePn	17 33.60	0.2

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

? OCT 13, 1990 22h 02m 16.19±3.50s
20.290 S ±21.9km 175.789 W ±37.7km
DEPTH = 248.4 ±16.7 km
4.8mb (5 obs.)
TONGA ISLANDS (173)

VUN	5.89	292	iPc	03 42.30	-1.2
SGE	6.53	293	eP	03 51.50	-0.2
BKM	15.33	277	iPd	05 44.50	2.7
DZM	16.67	261	iPc	05 57.10	-0.1
NOZ	19.03	195	eP	06 22.70	1.1
PGZ	21.37	197	eP	06 45.80	1.1
MNG	21.59	198	eP	06 45.00	-1.9
			0.2s	7.00nm	4.8mb
WDW	22.33	199	eP	06 54.00	-0.1
MRW	22.39	199	eP	06 54.00	-0.6
TCW	22.50	200	P	06 55.10	-0.7
THZ	23.45	202	eP	07 06.10	1.2
KHZ	23.83	200	eP	07 09.00	0.7
			0.2s	15.00nm	5.2mb
LTZ	24.57	201	P	07 16.00	0.7
MMCZ	27.63	203	eP	07 41.90	-1.1
CAN	34.35	237	eP	08 42.00	0.5
CTA	35.57	264	iPd	08 52.10	0.2
			0.8s	44.78nm	5.1mb
PMG	37.33	281	eP	09 06.50	-0.1
ASPA	46.59	256	iPc	10 21.30	-0.2
			0.6s	19.00nm	4.6mb
WB5	46.67	261	eP	10 21.20	-0.9

WARB	52.87	252	eP	11 09.00	0.0
			0.3s	2.00nm	4.0mb
M8L	59.83	257	eP	11 57.00	-1.1
NANU	63.45	254	eP	12 20.00	-2.1
CHTO	92.13	289	(P)	15 01.00	2.1
KSP	148.05	345	ePKP	21 37.00	7.0X
CLL	148.28	349	iPKPd	21 37.80	7.5X
			0.7s	11.00nm	
PRU	149.25	347	PKP	21 40.50	8.6X
JVI	149.84	299	ePKP	21 41.00	7.7X
DOU	150.26	360	PKP	21 42.90	9.5X
KHC	150.26	348	ePKP	21 43.10	9.6X
PRNI	150.51	296	ePKP	21 42.00	7.5X
MBH	150.73	295	ePKP	21 42.50	7.8X

S.D. = 1.3 on 23 of 31 obs.

? OCT 13, 1990 22h 11m 54.51±0.90s
15.345 N ±17.8km 147.559 E ±19.6km
DEPTH = 33.0km (normal)
4.5mb (2 obs.)
MARIANA ISLANDS REGION (215)

GUA	3.13	235	eP	12 42.10	-0.6
			eS	13 33.60	
GUMO	3.14	237	eP	12 51.30	8.5X
PJG	3.14	237	eP	12 51.20	8.4X
MAT	22.70	340	(P)	16 53.00	-1.5
			1.0s	9.00nm	4.2mb
WB5	37.33	201	eP	19 10.00	4.2X
LZH	44.02	306	P	20 03.00	1.9
			2.5s	53.00nm	4.9mb
KIC	145.10	306	PKP	31 31.08	-0.1
TIC	145.13	307	PKP	31 31.08	-0.2
LIC	145.40	306	PKP	31 32.00	0.3
ZOBO	145.68	96	ePKP	31 21.00	-11.8X
LPB	145.72	97	PKP	31 32.00	-0.7
CNCB	145.85	97	PKP	31 34.00	0.9

S.D. = 1.3 on 8 of 12 obs.

? OCT 13, 1990 22h 15m 22.40±3.63s
29.436 S ±42.9km 68.238 W ±50.9km
DEPTH = 120.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	1.90	186	eP	15 53.80	-1.3
			(S)	16 25.00	
RTCB	2.10	193	ePc	15 57.50	-0.2
			eS	16 31.50	
ZON	2.14	190	e(P)	15 58.00	-0.1
CYA	2.36	66	e(P)	16 01.00	0.0
RTCV	2.43	186	ePc	16 03.30	1.4
RTBS	2.45	205	eP	16 02.30	0.2
			S	16 39.00	
MDZ	3.48	189	eP	16 22.80	7.0X
			i(S)	17 15.90	

S.D. = 1.1 on 6 of 7 obs.

OCT 13, 1990 22h 53m 32.88±0.16s
23.493 S ±3.8km 179.135 E ±4.1km
DEPTH = 572.2km (2 depth phases)
5.3mb (44 obs.)
SOUTH OF FIJI ISLANDS (171)

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 33C
Centroid Location:
Origin Time 22:53:39.7 0.5
Lat 23.29S 0.05 Lon 178.88E 0.04
Dep 586.0 2.7 Half-duration 2.1
Moment Tensor: Scale 10¹⁷ Nm
Mrr=-0.68 0.06 Mtl=2.17 0.10
Mtf=-1.49 0.10 Mrt=1.66 0.09
Mrf=-0.02 0.10 Mtf=-0.81 0.09
Principal Axes:
T Val=3.06 Plg=24 Azm=10
N -1.21 50 249
P -1.86 30 115
Best Double Couple: M=2.5*10¹⁷
NP1: Strike=151 Dip=50 Slip=-5
NP2: 244 86 -140

NDF	5.92	344	eP	55 12.50	0.0
SGE	5.98	349	ePd	55 11.00	-2.2
			e	55 25.00	
RAO	6.31	156	P	55 17.50	1.5
			S	56 39.00	
MBU	6.50	357	iPd	55 15.20	-2.6

BKM	11.73	298	iPc	55 40.50	-0.6
DZM	11.79	274	iPd	56 09.50	-0.3
			iS	58 21.00	
			i	03 49.40	
HBZ	14.08	183	P	56 32.30	0.0
			0.3s	114.00nm	5.7mb
PUZ	14.55	183	P	56 37.10	0.1
			eS	59 07.70	
WLZ	14.62	191	eP	56 40.20	2.6
NOZ	15.11	183	eP	56 41.80	-0.5
WHH	15.51	188	eP	56 45.10	-1.3
CNZ	15.95	190	eP	56 52.40	1.7
PGZ	17.25	187	eP	57 01.70	-1.4
			0.6s	107.00nm	5.6mb
MNG	17.35	189	eP	57 02.80	-1.3
			0.2s	38.00nm	5.6mb
			eS	59 54.90	
KIW	17.68	191	P	57 06.70	-0.6
MTW	17.88	189	eP	57 08.00	-1.2
CAW	17.89	190	eP	57 08.40	-0.9
WDW	18.06	190	eP	57 10.00	-0.9
MRW	18.08	191	eP	57 10.80	-0.2
			eS	00 04.90	
BLW	18.09	189	eP	57 10.30	-0.9
WEL	18.12	191	P	57 10.00	-1.4
			S	00 07.00	
TCW	18.13	192	P	57 11.40	-0.2
MOW	18.17	189	eP	57 11.00	-1.0
THZ	18.95	194	eP	57 19.90	0.6
			eS	00 20.50	
KHZ	19.44	193	P	57 23.20	-0.6
			0.3s	136.00nm	6.0mb
LTZ	20.06	195	P	57 28.70	-0.9
			S	00 37.00	
MDZ	20.86	193	P	57 36.10	-0.7
MMCZ	22.96	198	P	57 55.20	-0.8
MHZ	22.97	198	P	57 55.10	-0.9
BRS	24.10	255	iPc	58 07.60	1.3
COO	25.23	248	iPd	58 18.40	2.2
			0.6s	97.00nm	5.6mb
CNB	28.38	239	iPd	58 45.70	2.0
			0.6s	172.00nm	5.9mb
CAN	28.67	239	iPc	58 48.20	2.0
TBI	28.79	96	iP	58 46.70	-0.5
			0.9s	100.00nm	5.4mb
BWA	28.90	241	eP	58 48.00	-0.2
AFR	29.67	84	iP	58 53.90	-1.0
			1.2s	205.00nm	5.6mb
PAE	29.82	85	iP	58 55.20	-0.9
			1.2s	135.00nm	5.5mb
PPT	29.85	85	iP	58 55.50	-0.9
			1.2s	180.00nm	5.6mb
PPN	29.99	85	iP	58 56.60	-1.0
			1.2s	115.00nm	5.4mb
TVO	30.09	85	iP	58 57.60	-0.9
			1.2s	250.00nm	5.7mb
CMS	30.51	248	iP	59 02.50	0.6
CTA	30.68	270	iPc	59 04.00	0.5
			0.9s	304.20nm	5.9mb
			iS	03 27.00	
			iScP	04 36.00	
			iScS	08 34.70	
PMO	32.19	81	iP	59 15.40	-0.7
			1.2s	130.00nm	5.4mb
VAH	32.35	81	iP	59 16.30	-1.2
			1.2s	125.00nm	5.4mb
TPT	32.45	81	iP	59 17.60	-0.7
			1.2s	220.00nm	5.

13d 23h

MTN	1.0s	65.00nm		5.1mb		LZH	1.2s	17.30nm		5.0mb				e	14	33.20			
	46.63	274 iPc	01	11.40	-0.9		92.50	308 Pc	05	41.00	-3.6X	EZN	151.85	312 ePKP	12	24.00	6.6X		
	0.3s	55.00nm		5.6mb			1.5s	28.00nm		5.1mb		KHC	151.99	340 PKP	12	25.00	7.6X		
WARB	47.45	255 eP	01	18.00	-0.4	GTA	96.82	310 eP	06	04.30	0.3			e	12	37.40			
	0.3s	11.00nm		4.9mb		GBA	105.88	278 PKPc	10	53.30	-0.8	GRF	152.18	343 iPKPc	12	25.40	7.8X		
KNA	47.87	270 iPc	01	20.90	-0.8		0.3s	0.90nm						e	12	38.60			
	0.4s	31.00nm		5.2mb		SIV	109.28	118 PKP	11	00.00	-0.5	ENN	152.27	351 ePKP	12	25.50	7.9X		
GUA	49.75	314 e(P)	01	33.70	-1.8		i	11	41.20					e	12	33.00			
GUMO	49.82	314 e(P)	01	29.00	-7.0X	MAIO	126.90	299 iPKPd	11	34.50	0.6			e	12	40.00			
PJG	49.82	314 e(P)	01	34.00	-2.0		e	13	24.00			TNS	152.34	347 ePKPc	12	25.50	7.6X		
KLB	54.41	247 eP	02	08.00	-1.0	SOD	132.89	346 ePKP	11	40.00	-4.1X	BEQ	152.51	326 i(PKP)	12	25.50	7.3X		
	0.7s	49.00nm		4.9mb			iSKP	14	19.20			DOU	153.10	352 PKP	12	26.90	8.1X		
MBL	54.57	260 eP	02	09.00	-1.2	SUF	136.78	342 ePKP	11	49.00	-2.6			e	12	40.40			
NWAO	54.68	245 eP	02	10.00	-0.8	NUR	138.97	341 ePKP	11	50.00	-5.7X			e	14	42.00			
	0.7s	13.00nm		4.4mb			0.8s	24.90nm				BCAO	153.36	228 iPKPd	12	20.20	-0.1		
RKG	54.74	244 iPc	02	10.50	-0.7		i	11	56.80					id	12	29.00			
	0.6s	48.00nm		5.0mb		NB2	141.55	351 PKP	11	54.90	-5.5X			id	12	44.20			
SBA	54.74	183 iPd	02	13.70	3.1X		0.8s	14.80nm				SKO	153.83	320 ePKP	12	20.40	0.3		
BAL	55.45	248 iPd	02	15.40	-0.8	HFS	141.99	348 ePKP	11	55.70	-5.4X			iP'P'	12	28.40			
	0.4s	12.00nm		4.6mb			0.6s	18.60nm						i	12	45.70			
MUN	55.67	246 iPd	02	17.40	-0.3	KAS	146.05	310 iPKPc	12	11.20	2.6			e	13	36.20			
	0.8s	35.00nm		4.7mb		BSD	146.31	344 iPKPc	12	09.90	1.5	LJU	154.28	335 e(PKP)	12	20.50	-0.1		
MRWA	56.28	250 iPc	02	21.20	-0.8		0.8s	79.80nm				VOY	154.54	336 ePKP	12	21.00	0.0		
	0.5s	14.00nm		4.5mb		EDU	146.94	2 iPKPc	12	11.80	2.4			e	12	29.10			
NANU	58.10	257 iPc	02	33.90	-0.5		0.7s	71.00nm						e	12	47.00			
	0.3s	27.00nm		5.0mb		ELO	146.99	3 iPKPc	12	11.90	2.4	CEY	154.57	335 e(PKP)	12	21.50	0.5		
TRT	65.44	272 iPd	03	23.50	1.5	IAS	147.20	323 ePKP	12	14.00	3.9X	FLN	154.78	359 ePKP	12	21.00	-0.1		
SPA	66.65	180 iPd	03	30.90	2.0	EBH	147.22	3 iPKPc	12	12.70	2.8X			0.8s	9.40nm	-0.6			
	1.2s	213.38nm		5.5mb			0.8s	111.00nm				BSF	154.95	348 ePKP	12	21.60	0.0		
MAT	71.12	326 eP	03	53.00	-2.6	EAB	147.24	4 iPKPc	12	12.70	2.8X			0.8s	5.35nm	0.0			
	0.8s	18.66nm		4.7mb			0.8s	71.00nm				LOR	155.98	352 ePKP	12	22.90	0.0		
	eS	12	24.00			BBTK	147.30	308 ePKP	12	10.00	-0.7			1.2s	17.85nm				
ADK	75.14	3 eP	04	15.50	-2.4	EDI	147.56	2 iPKPc	12	13.30	2.9X	SSF	156.22	353 ePKP	12	23.20	0.1		
SSE	77.63	312 eP	04	31.40	-0.6	ESY	147.59	2 iPKPc	12	13.40	2.9X			1.0s	13.00nm				
	1.2s	20.00nm		4.4mb			0.8s	73.00nm				LBF	156.24	352 ePKP	12	23.20	0.0		
MAW	77.85	201 iPd	04	34.20	1.6	EAU	147.63	3 iPKPc	12	13.90	3.3X			0.8s	4.05nm	0.2			
	0.8s	48.00nm		5.0mb			0.8s	134.00nm				TIC	157.12	355 ePKP	12	24.50	0.2		
AIA	79.25	157 eP	04	42.10	2.1	EBL	147.72	2 iPKPc	12	14.00	3.3X			0.9s	8.20nm	-0.2			
NJ2	79.80	311 Pc	04	43.60	0.3	CFR	148.00	320 ePKP	12	09.00	-2.4	KIC	162.56	167 PKP	12	30.62	-0.3		
PRS	81.81	45 eP	04	54.90	1.3	EKA	148.15	2 PKPc	12	14.70	3.3X			0.9s	21.00nm				
PCC	81.87	43 eP	04	54.80	1.0		0.7s	19.30nm				TIC	162.78	166 PKP	12	30.96	-0.2		
WHN	82.13	308 eP	04	55.50	0.2	VRI	148.44	322 ePKP	12	14.50	2.3	LKO	165.41	161 PKPd	12	33.62	0.1		
BRK	82.17	43 eP	04	56.30	0.9	KRA	148.90	334 ePKP	12	12.10	-0.6			0.8s	11.50nm				
BKS	82.19	43 eP	04	56.50	1.0		i	12	17.10			IFR	169.33	20 iPKPc	12	38.00	2.1		
	0.8s	47.00nm		5.1mb			e	12	24.10					i	13	54.00			
MHC	82.24	44 eP	04	57.00	1.1	AKSR	148.98	277 ePKP	12	19.00	5.4X			S.D. = 1.1 on 142 of 178 obs.					
CN2	83.09	324 Pc	04	59.70	-0.1	BMR	149.02	327 ePKPc	12	19.00	6.0X			? OCT 13, 1990 23h 32m 40.14±14.96s					
	1.0s	100.00nm		5.3mb		AMAN	149.09	278 iPKPc	12	19.20	5.4X			14.433 N ±45.4km 60.605 W ±158.km					
	S	14	35.00			AKRL	149.27	277 iPKPc	12	19.50	5.5X			DEPTH = 33.0km (normal)					
PLM	83.11	49 eP	05	01.00	0.6	ANMR	149.42	277 iPKPc	12	19.70	5.4X			WINDWARD ISLANDS (95)					
RVR	83.11	48 eP	05	01.00	0.8	SPC	149.44	332 ePKP	12	18.50	4.7X			MG 2.9 (FDF).					
SBB	83.20	48 eP	05	01.00	0.3		e	14	33.10			FDF	0.61	300 iPd	32	52.30	0.0		
FRI	83.27	45 eP	05	01.50	0.6	KSP	149.62	338 ePKP	12	14.00	0.2			0.1s	4.50nm				
ISA	83.32	47 eP	05	02.00	0.7		0.8s	85.00nm						S	33	03.30			
CMB	83.45	44 iPc	05	02.50	0.6		i	12	19.30			SLB	0.74	215 eP	32	54.12	0.0		
WDC	83.66	41 eP	05	03.60	0.8	BCK	149.69	305 ePKP	12	19.20	4.8X			eS	33	05.00			
ORV	83.67	42 eP	05	03.50	0.7	CMP	149.75	322 ePKPc	12	20.00	5.8X			eS	33	00.33	0.0		
CLC	83.99	47 eP	05	05.00	0.4	WIT	150.17	351 ePKP	12	21.50	7.0X			eS	33	16.27			
MIN	84.08	41 eP	05	05.70	0.6	CLL	150.23	342 ePKP	12	15.00	0.3			eS	33	01.44	-0.1		
TPC	84.09	49 eP	05	05.00	-0.1	BRG	150.35	341 ePKP	12	15.10	0.2			eS	33	17.05			
GSC	84.23	48 eP	05	07.00	1.2		1.0s	90.00nm						eS	33	02.43	0.1		
KDC	84.34	15 e(P)	05	04.70	-1.0		i	12	20.70					S.D. = 0.1 on 5 of 5 obs.					
GLA	84.38	50 eP	05	08.00	1.5		i	12	28.10					OCT 13, 1990 23h 36m 19.32±0.74s					
TNP	85.52	45 iPd	05	12.20	0.1		e	14	30.40					28.160 S ± 5.8km 69.534 W ± 8.6km					
	pP	07	15.00	569km			e	14	56.60					DEPTH = 94.0 ± 9.4 km					
BJI	86.19	317 eP	05	15.00	0.0	PRU	150.93	339 PKP	12	21.80	6.0X			4.4mb (2 obs.)					
	1.5s	52.00nm		5.0mb			1.0s	43.40nm						CHILE-ARGENTINA BORDER REGION (127)					
	eSKS	14	46.00				e	12	29.20					RTLL	3.29	164 iPd	37	09.50	-0.3
TIY	87.33	313 iPd	05	22.00	1.4	WTS	150.94	350 ePKP	12	17.00	1.3			CYA	3.31	96 iPd	37	11.50	1.5
	1.2s	50.00nm		5.2mb			0.7s	83.00nm							S	37	46.00		
XAN	87.87	309 P	05	24.40	1.3		iP'P'	12	22.90					RTCB	3.38	169 eP	37	11.00	0.0
TTA	88.36	11 eP	05	23.90	-0.9	MOX	151.21	343 iPKPc	12	23.00	6.8X			ZON	3.45	168 e(P)	37	12.00	-0.1
PMR	88.55	15 eP	05	24.40	-1.2		e	12	33.00					RTBS	3.49	179 ePd	37	13.00	0.6
	1.1s	46.40nm		5.3mb			e	14	36.00										
CHG	88.79	291 ePc	05	29.30	1.7		e	12	20.20										
	1.0s	15.00nm		4.9mb		SRO	151.32	333 i(PKP)	12	23.00	3.8X								
HHC	89.57	315 eP	05	32.00	1.1		i	12	33.70										
CD2	90.19	304 P	05	35.80	1.9	BZS	151.37	326 ePKP	12	15.50	-1.0								
PNT	90.61	35 iPc	05	36.00	0.6	HOF	151.44	343 iPKPc	12	23.20	6.7X								
	0.8s	19.00nm		5.1mb		ZST	151.51	334 e(PKP)	12	16.90	0.2								
ALO	91.33	52 eP	05	39.00	-0.3		i	12	23.70										
	0.9s	7.98nm		4.7mb			e	12	34.60										
	e	07	45.00	575km															
IMA	91.65	11 eP	05	38.80	-1.1														

13d 23h

RTCV	3.79	167	ePd	37	16.50	-0.1
ANT	4.51	350	e(P)	37	35.00	8.5X
JACH	4.60	191	iPd	37	26.20	-1.7
			iS	38	16.00	
MDZ	4.74	173	eP	37	29.40	-0.5
			e	37	49.20	
			e(S)	38	03.90	
PEL	5.07	191	eP	37	36.00	1.7
			iS	38	25.60	
LNK	6.00	195	iPd	37	42.20	-4.9X
CNCB	11.39	8	P	39	05.00	4.1X
LPB	11.65	7	eP	39	03.00	-1.3
ZOBO	11.91	7	P	39	08.00	0.2
SIV	14.42	35	P	39	40.40	0.2
PPD	17.59	74	eP	40	18.90	-0.9
VAO	20.98	81	eP	40	56.20	-0.7
			e	40	59.80	
BAO	23.51	62	eP	41	22.00	0.2
JFO	24.58	81	(P)	41	32.00	-0.1
TUL	68.37	337	eP	47	13.40	0.8
			0.7s		7.60nm	4.7mb
ALO	71.81	329	eP	47	34.00	0.2
			0.7s		1.71nm	4.0mb
ANMO	71.81	329	P	47	34.50	0.7
WB5	126.94	208	ePKP	55	12.90	-1.5
GBA	146.04	108	PKPd	55	50.40	0.9
			0.3s		2.10nm	

S.D. = 1.0 on 21 of 24 obs.

OCT 13, 1990 23h 52m 46.18 ± 0.43s
 15.654 N ± 6.3km 147.987 E ± 8.2km
 DEPTH = 33.0km (normal)
 4.8mb (6 obs.)

MARIANA ISLANDS REGION (215)

GUA	3.64	235	eP	53	41.20	-0.5
			eS	54	21.90	
GUMO	3.65	236	eP	53	41.80	0.0
PJG	3.65	236	eP	53	41.60	-0.2
CHJJ	21.84	340	eP	57	36.80	-0.9
MAT	22.55	339	eP	57	44.00	-0.8
			0.9s		10.08nm	4.3mb
MTMJ	22.73	338	eP	57	45.80	-0.8
SSE	28.90	307	Pc	58	45.50	1.2
			1.0s		10.00nm	4.5mb
WHN	34.15	302	eP	59	30.00	-0.4
WB5	37.76	201	iPd	00	00.00	-1.1
GVA	39.88	293	P	00	19.80	0.9
ASPA	41.43	200	iPd	00	30.90	-0.6
			0.6s		19.10nm	5.0mb
CD2	43.08	299	eP	00	46.00	1.0
LZH	44.17	306	eP	00	54.70	0.7
			2.0s		54.00nm	5.0mb
Z			20s		0.20um	4.0msz
WARB	46.48	207	iPc	01	02.00	24kmX
			0.4s		3.00nm	4.6mb
WMO	57.95	312	eP	02	38.40	0.5
FBA	65.09	25	(P)	03	25.50	0.0
MAIO	79.72	305	eP	04	53.00	0.3
TNP	84.20	52	P	05	16.00	-0.1
APD	95.63	339	eP	06	08.00	-1.5
			0.8s		6.90nm	5.2mb
KIC	145.24	307	PKP	12	22.62	-0.5
			1.0s		36.50nm	
TIC	145.28	308	PKP	12	22.54	-0.6
			0.9s		21.50nm	
ZOBO	145.30	96	PKP	12	24.00	0.2
LPB	145.35	97	ePKP	12	25.00	1.3
CNCB	145.48	97	PKP	12	25.80	1.7
LIC	145.55	307	PKP	12	23.22	-0.4
			0.9s		26.00nm	
CCH	147.26	98	(PKP)	12	40.00	13.3X
SIV	152.05	95	PKP	12	40.80	7.1X

S.D. = 0.9 on 25 of 27 obs.

OCT 14, 1990 00h 04m 41.37 ± 2.08s
 31.398 S ± 46.2km 69.400 W ± 26.9km
 DEPTH = 120.0km (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA (137)

RTBS	0.27	190	iPd	04	58.50	-0.1
RTCB	0.52	100	eP	05	00.00	0.2
ZON	0.63	104	eP	05	01.00	0.5
			eS	05	15.00	
RTLL	0.80	85	iPd	05	01.50	-0.4
			eS	05	15.20	

RTCV	0.87	122	iPd	05	02.30	-0.2
MDZ	1.55	163	eP	05	26.00	16.1X
			e	05	32.90	

S.D. = 0.5 on 5 of 6 obs.

OCT 14, 1990 00h 18m 46.83 ± 0.53s
 15.571 N ± 9.1km 148.080 E ± 10.3km
 DEPTH = 33.0km (normal)
 4.4mb (2 obs.)

MARIANA ISLANDS REGION (215)

GUA	3.67	237	eP	19	42.80	0.1
			eS	20	23.20	
GUMO	3.68	238	eP	19	42.70	-0.1
PJG	3.68	238	eP	19	42.70	-0.1
MAT	22.66	339	eP	23	46.00	-0.5
			0.9s		10.92nm	4.3mb
WB5	37.72	201	eP	26	02.00	0.6
ASPA	41.39	200	eP	26	31.20	-0.6
			0.8s		7.10nm	4.4mb
LZH	44.30	306	eP	26	56.50	0.9
			pP	27	04.00	25kmX
ZOBO	145.20	96	PKP	38	25.00	0.7
LPB	145.25	97	ePKP	38	24.00	-0.2
KIC	145.36	307	PKP	38	23.90	-0.1
			0.7s		9.50nm	
CNCB	145.38	97	ePKP	38	14.00	-10.6X
TIC	145.40	308	PKP	38	23.90	-0.1
			0.7s		8.50nm	
LIC	145.67	307	PKP	38	24.00	-0.5
			0.8s		9.50nm	

S.D. = 0.5 on 12 of 13 obs.

OCT 14, 1990 00h 31m 34.35 ± 1.09s
 15.805 N ± 12.6km 147.984 E ± 18.2km
 DEPTH = 33.0km (normal)
 4.6mb (1 obs.)

MARIANA ISLANDS REGION (215)

GUA	3.73	233	eP	32	31.50	0.5
			eS	33	11.50	
GUMO	3.74	234	eP	32	31.00	-0.1
PJG	3.74	234	eP	32	31.00	-0.1
MAT	22.41	339	(P)	36	31.00	-0.5
WB5	37.90	201	eP	38	50.20	-0.2
ASPA	41.57	200	iPd	39	20.30	-0.5
			0.6s		8.30nm	4.6mb
KIC	145.15	307	PKP	51	12.20	1.1

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

OCT 14, 1990 01h 01m 47.15 ± 2.63s
 23.138 N ± 18.3km 121.724 E ± 22.7km
 DEPTH = 33.0km (normal)

TAIWAN (244)

TWF1	0.45	299	iPc	01	56.70	-0.3
			eS	02	02.90	
TWG	0.68	242	iPd	02	00.10	-0.2
TWD	0.95	353	iPd	02	03.80	-0.3
TWK	1.14	277	iPc	02	07.40	0.5
			eS	02	22.10	
TWC	1.47	4	ePc	02	11.80	0.3

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

OCT 14, 1990 01h 07m 48.09 ± 0.80s
 38.246 N ± 7.3km 23.159 E ± 9.2km
 DEPTH = 10.0km (geophysicist)

GREECE (364)

MD 2.7 (ATH).						
ATH	0.52	122	iPbc	07	58.00	-0.6
			eSb	08	05.00	
NEO	1.06	3	ePn	08	09.00	0.9
			eSn	08	24.20	
EVR	1.25	303	ePn	08	11.70	0.3
			eSn	08	30.70	
ITM	1.45	223	ePn	08	13.70	-0.6
			eSn	08	32.20	
VLI	1.54	187	ePb	08	16.70	1.2
OHR	3.39	328	ePn	08	41.00	-1.2

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

OCT 14, 1990 01h 58m 42.84 ± 0.12s
 17.650 S ± 3.8km 178.906 W ± 3.6km
 DEPTH = 556.3km (2 depth phases)
 5.1mb (47 obs.)

FIJI ISLANDS REGION (181)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
 L.P.B.: 10S, 17C
 Centroid Location:
 Origin Time 01:58:50.3 1.1
 Lat 17.30S 0.11 Lon 179.35W 0.11
 Dep 551.9 6.4 Half-duration 1.5
 Moment Tensor: Scale 10¹⁶ Nm
 Mrr= 3.19 0.56 Mtt= 3.10 0.91
 Mff=-6.29 0.89 Mrt=-4.47 0.91
 Mrf=-6.47 0.90 Mtf= 0.20 0.81
 Principal Axes:
 T Val= 9.25 Plg=49 Azm=150
 N 0.60 26 25
 P -9.86 29 280
 Best Double Couple: Mo=9.6*10¹⁶
 NP1: Strike=323 Dip=29 Slip= 24
 NP2: 211 79 116

MBU	2.36	286	iPc	59	55.30	-0.1
SVA	2.55	259	ePc	59	57.60	1.3
			iS	00	58.50	
SGE	3.02	271	iPc	59	59.60	0.4
NDF	3.47	268	iPc	00	05.60	3.6X
PVC	12.18	268	iPd	01	24.40	0.7
BKM	12.25	268	iPd	01	25.20	0.8
DZM	14.46	250	iPd	01	46.80	0.2
HBZ	20.02	186	eP	02	39.80	0.0
PUZ	20.50	186	P	02	44.70	0.4
WLZ	20.69	192	P	02	48.50	2.5
NOZ	21.06	187	P	02	50.10	0.8
HNR	22.10	289	eP	02	46.00	-13.0X
PGZ	23.26	189	P	03	08.00	-1.3
MNG	23.40	191	eP	03	08.40	-2.1
			0.2s		8.00nm	5.0mb
MTW	23.92	190	P	03	14.00	-1.2
CAW	23.95	191	P	03	14.20	-1.3
WDW	24.12	191	P	03	15.50	-1.4
MRW	24.14	192	eP	03	16.20	-0.9
TCW	24.20	193	P	03	16.50	-1.2
THZ	25.04	195	P	03	24.70	-0.5
KHZ	25.51	193	eP	03	27.90	-1.4
			0.3s		28.00nm	5.4mb
LTZ	26.15	195	P	03	34.10	-0.9
AFR	27.76	94	iP	03	48.60	-0.5
			0.8s		85.00nm	5.4mb
BRS	27.84	245	iPc	03	49.80	-0.1
			i	04	04.30	60kmX
			i	04	56.00	
PAE	27.93	95	iP	03	50.00	-0.7
			0.8s		80.00nm	5.4mb
PPT	27.95	94	iP	03	50.20	-0.6
			0.8s		80.00nm	5.4mb
PPN	28.08	94	iP	03	51.20	-0.8
			0.8s		30.00nm	5.0mb
TBI	28.13	107	iP	03	53.30	1.0
			0.7s		60.00nm	5.3mb
TVO	28.24	95	iP	03	52.80	-0.6
			0.8s		75.00nm	5.4mb
MMCZ	29.05	198	P	03	59.70	-0.6
MMZ	29.07	197	P	03	59.70	-0.7
TLC	29.24	198	Pd	04	02.00	0.1
COO	29.50	239	iPd	04	05.60	1.4
PMO	29.86	90	iP	04	06.90	-0.4
			0.8s		55.00nm	5.2mb
VAH	30.07	90	iP	04	08.50	-0.6
			0.8s		30.00nm	5.0mb
TPT	30.13	90	iP	04	09.20	-0.4
			0.8s		40.00nm	5.1mb
RUV	30.32	90	iP	04	10.70	-0.5
			0.8s		45.00nm	5.2mb
RMO	31.16	248	iPd	04	17.40	-1.0
			e	05	50.00	
			e	09	50.00	
CTA	33.02	260	iPd	04	33.70	-0.3
			0.9s		107.56nm	5.5mb
			iScP	09	57.00	
CNB						

BFD	39.02	232	iPd	05	29.00	5.7X	KVN	80.03	44	P	09	56.40	0.2		1.0s	302.00nm				
ADE	41.38	237	iPd	05	43.00	0.7	TNP	80.11	45	iPd	09	56.40	-0.2	CLL	145.11	347	iPKPc	17	19.20	0.9
	0.6s	86.67nm			5.5mb				pP	11	55.00	551km			0.8s	120.00nm				
RKT	41.42	105	iP	05	43.40	0.7	SVW	80.68	11	ePc	09	57.50	-1.3					19	34.00	
	0.6s	25.00nm			4.9mb		BMW	81.16	35	P	10	01.80	0.2	BRG	145.30	346	iPKP	17	18.60	0.0
WB5	44.19	259	eP	06	01.80	-2.8	GMW	82.04	35	P	10	06.10	0.1		0.6s	70.00nm				
		ScP		10	39.50		LON	82.10	36	P	10	06.10	-0.3					19	30.00	
		eS		12	00.40		TTA	82.30	10	iPc	10	06.60	-0.5	MLR	145.37	329	ePKPd	17	20.00	0.9
ASPA	44.41	254	iPd	06	05.50	-0.7	PGC	82.36	33	ePd	10	07.60	0.2	WTS	145.43	354	ePKP	17	19.00	0.2
	0.4s	497.10nm			6.4mb X		PMR	82.46	14	ePc	10	06.40	-1.3		1.2s	205.00nm				
Z	23s	0.09um			3.6mszX			1.1s	67.70nm			5.1mb		PRU	145.97	344	ePKP	17	19.50	-0.2
		iScP		10	40.60		MCW	82.70	34	P	10	10.10	0.8		0.7s	42.10nm				
		iS		11	59.00		SNG	83.16	280	eP	10	15.20	3.0X					17	21.50	
		iScS		15	04.90		BJI	83.27	316	eP	10	12.50	0.3	MOX	146.02	348	ePKP	17	20.50	0.7
GUA	47.28	309	eP	06	27.00	-1.2		1.0s	18.00nm			4.6mb			1.2s	37.00nm				
	0.9s	268.91nm			5.8mb				eS		19	40.00		DSI	146.04	301	iPKPc	17	21.40	1.0
GUMO	47.35	309	eP	06	27.50	-1.2	TOA	83.61	15	iPc	10	13.00	-0.6	NOH	146.62	299	iPKPc	17	23.20	1.7
	0.8s	169.04nm			5.6mb		AIA	83.92	157	eP	10	17.50	2.4	ENN	146.74	354	iPKPc	17	23.50	2.6
MTN	48.33	268	iPd	06	34.80	-1.4	MAW	83.94	200	iPc	10	17.00	1.8		0.7s	48.00nm				
	0.4s	212.00nm			6.0mb		DUG	84.13	45	P	10	16.80	0.1	SRO	146.77	339	iPKP	17	24.10	3.0X
WARB	50.92	250	iPd	06	54.90	-0.4		0.6s	3.29nm			4.1mb X		BUD	146.80	338	iPKPc	17	23.80	2.7
	0.7s	182.00nm			5.6mb		TIY	84.74	312	iPc	10	21.00	1.3	ZST	146.85	340	iPKPc	17	24.60	3.4X
KUPT	56.13	269	e(P)	07	23.00	-9.3X	DAU	85.28	45	P	10	23.40	0.9					19	31.90	
MBL	57.58	256	iPd	07	41.20	-0.9	IMA	85.60	10	ePc	10	22.00	-1.3	MBH	146.92	298	iPKPc	17	24.00	2.2
	0.5s	38.00nm			5.0mb			0.7s	6.80nm			4.4mb		TNS	146.97	351	iPKPc	17	23.90	2.5
MEKA	58.15	249	eP	07	45.00	-1.0	FBA	85.66	13	iPc	10	22.00	-1.4	KHC	147.01	345	ePKP	17	21.90	0.4
	0.4s	14.00nm			4.6mb				pP		12	20.00	537kmX					17	24.80	
KLB	58.51	243	iPd	07	47.40	-1.0	PTI	85.71	43	P	10	25.00	0.7	GRF	147.01	348	iPKPc	17	24.80	3.4X
	0.6s	76.00nm			5.2mb		XAN	85.73	308	Pd	10	25.20	0.7		0.9s	62.00nm				
NWAO	58.91	242	eP	07	50.00	-1.0	ANMO	86.31	52	P	10	27.90	0.5	Z	17s	0.20um			5.0mszX	
RKG	59.07	241	eP	07	52.00	0.0		1.1s	28.16nm			4.9mb		VKA	147.03	341	iPKPc	17	24.70	3.2X
	0.8s	63.00nm			5.0mb		LRM	87.08	40	iPc	10	30.70	-0.2		0.7s	73.10nm				
BAL	59.47	245	eP	07	53.50	-1.2	CHTO	88.47	290	P	10	38.80	1.2	BZS	147.29	333	ePKP	17	20.00	-2.0
MUN	59.82	243	eP	07	56.50	-0.5	GOL	89.04	48	P	10	41.00	0.8	SOP	147.47	340	iPKPc	17	27.60	5.4X
MRWA	60.18	246	iPd	07	58.40	-1.0		1.0s	26.25nm			5.1mb		DOU	147.51	356	iPKPc	17	25.60	3.4X
	0.4s	12.00nm			4.6mb		GLD	89.16	48	P	10	41.60	1.0		0.7s	86.70nm				
SBA	60.65	183	iPc	08	04.30	2.6		1.2s	42.93nm			5.3mb						17	32.00	
NANU	61.34	254	iPd	08	06.90	-0.2	SES	90.09	36	iPc	10	44.00	-0.5	GWf	148.31	352	PKP	17	27.62	4.1X
	0.4s	34.00nm			5.1mb			0.7s	64.00nm			5.7mb		FUR	148.45	347	iPKPc	17	28.20	4.4X
MAT	67.42	324	iPd	08	43.50	-1.5	EDM	90.20	33	iPc	10	44.10	-0.8		0.8s	83.00nm				
	0.7s	17.12nm			4.7mb		LZH	90.36	308	eP	10	46.50	0.3	BHG	148.49	345	iPKPc	17	28.30	4.4X
ADK	69.26	1	eP	08	52.80	-2.9X		1.5s	28.00nm			5.0mb			0.8s	49.00nm				
	0.7s	55.60nm			5.2mb		INK	91.76	15	eP	10	50.00	-1.7	RDO	148.55	323	iPKPc	17	28.00	3.9X
SPA	72.46	180	iPc	09	15.60	1.1		0.9s	22.00nm			5.2mb		STR	148.67	351	PKP	17	29.13	5.1X
	0.9s	54.09nm			5.1mb		YKA	94.30	25	eP	11	02.20	-1.2	CDF	148.91	352	PKP	17	29.13	4.6X
SSE	75.21	310	P	09	29.80	-0.4		0.7s	13.90nm			5.2mb		FLN	148.94	2	iPKPc	17	29.00	4.5X
	0.8s	10.00nm			4.3mb		SIO	94.32	54	eP	11	03.40	-0.8		0.8s	146.90nm				
BLP	76.06	46	P	09	35.40	0.6	GTA	94.51	310	eP	11	05.40	0.3	Z	20s	0.30um			5.1msz	
SYF	76.33	47	eP	09	37.00	0.4	TUL	94.77	54	eP	11	06.50	0.3	LDF	149.12	2	iPKPc	17	29.40	4.7X
GCC	76.36	44	eP	09	36.80	0.4		0.7s	4.50nm			4.8mb			0.6s	43.30nm				
PCC	76.37	43	eP	09	36.80	0.3	MBC	100.19	12	ePd	11	28.50	-1.2	VITF	149.25	354	PKP	17	29.98	5.1X
PRS	76.38	45	eP	09	37.00	0.4		0.9s	5.00nm			5.0mb		GRR	149.30	3	iPKPc	17	30.10	5.1X
SAO	76.57	44	ePd	09	37.90	0.3	DAG	119.99	5	iPKPc	16	29.00	-1.8	PRK	149.31	320	ePKP	17	30.00	4.7X
BCH	76.62	46	P	09	38.40	0.3		0.3s	23.81nm					SOTA	149.36	346	iPKPc	17	30.20	4.9X
BRK	76.67	43	ePd	09	38.30	0.2	KEV	125.52	349	ePKP	16	41.00	-0.7		0.6s	68.70nm				
PRI	76.74	45	ePc	09	39.20	0.5	MAIO	125.54	302	iPKPd	16	43.00	0.1					17	37.20	
PHAM	76.76	45	P	09	39.20	0.5					18	41.00		SLE	149.36	350	ePKPd	17	24.80	-0.4
MHC	76.77	44	eP	09	39.30	0.5	SOD	127.65	348	ePKP	16	45.00	-0.8	HAU	149.42	353	iPKPc	17	30.40	5.1X
LLA	76.82	44	eP	09	39.70	0.7	SOB1	130.68	119	ePKP	16	38.40	-14.8X		0.6s	37.90nm				
ARN	76.84	44	P	09	39.80	0.7					16	53.20		Z	20s	0.17um			4.9msz	
ABL	77.03	47	P	09	40.70	0.2					19	28.10		MOF	149.48	352	PKP	17	30.22	4.8X
PAS	77.40	48	eP	09	43.00	0.8	SUF	131.72	345	ePKP	16	52.00	-1.6	BSF	149.54	352	iPKPc	17	30.60	5.0X
MWC	77.52	48	eP	09	43.00	0.0	NUR	133.98	344	ePKP	16	58.00	0.0		0.6s	30.65nm				
MDJ	77.70	325	eP	09	43.50	0.0	NB2	136.06	353	PKP	16	50.40	-11.6X	FVI	149.56	344	PKP	17	29.70	4.3X
	0.7s	20.00nm			4.7mb			0.6s	2.10nm				LJU	149.56	341	ePKP	17	26.00	0.5	
BAR	77.72	50	eP	09	43.00	-1.0	HFS	136.60	351	ePKP	16	49.10	-13.9X					17	30.50	
FRI	77.85	45	ePc	09	44.30	-0.2		0.4s	1.50nm					AKSR	149.58	287	ePKP	17	32.50	6.4X
RVR	77.88	48	eP	09	44.00	-0.7	EKA	142.25	4	PKP	17	08.00	-5.3X	LPF	149.65	3	iPKPc	17	30.90	5.4X
SBB	77.92	48	eP	09	44.00	-1.0		0.7s	8.20nm				SAX	149.71	349	ePKP	17	25.90	-0.2	
PLM	77.92	49	eP	09	45.00	-0.2	KAS	143.37	317	ePKP	17	15.00	-0.8	VOY	149.77	342	ePKP	17	26.70	0.8
CMB	77.98	44	ePc	09	45.20	0.0	KRA	144.30	339	iPKPc	17	16.30	-0.6					17	30.50	
ISA	77.98	46	eP	09	45.00	-0.3		0.5s	63.00nm					AGAL	149.77	286	ePKP	17	33.00	6.6X
PEC	77.98	49	P	09	45.20	-0.1					17	23.30		VBY	149.82	340	ePKP	17	31.80	5.9X
	0.6s	15.50nm			4.6mb		CFR	144.45	326	ePKP	17	17.00	-0.3	AKRL	149.86	287	ePKP	17	32.50	5.9X
WDC	78.05	40	eP	09	45.50	0.0	ETA	144.56	8	ePKP	17	16.40	-0.9	CEY	149.87	341	ePKP	17	31.40	5.4X
ORV	78.11	42	eP	09	45.50	-0.4		0.6s	85.00nm				ANMR	150.01	287	ePKP	17	33.00	6.2X	
KDC	78.26	14	eP	09	45.10	-1.1	WIT	144.64	354	iPKP	17	19.50	2.1	OSS	150.09	347	ePKP	17	26.50	0.0

14d 02h

Z	20s	0.15um	4.8Msz
GRC	150.39	357 PKP	17 33.18 6.5X
VDL	150.42	348 ePKPd	17 27.40 0.3
LBF	150.65	356 iPKPc	17 33.40 6.2X
AVF	150.88	357 iPKPc	17 33.50 6.1X
	0.6s	48.70nm	
TMA	150.90	349 ePKPd	17 27.50 -0.3
SMF	151.00	356 iPKPc	17 33.80 6.1X
	0.8s	34.90nm	
SAL	151.04	346 PKP	17 31.00 3.3X
MDI	151.05	347 PKP	17 32.80 5.1X
MMK	151.11	350 ePKP	17 29.20 1.0
MFF	151.11	2 iPKPc	17 34.20 6.4X
	0.8s	85.95nm	
OHR	151.13	328 iPKPc	17 34.10 6.0X
	0.6s	127.00nm	
BGF	151.14	357 iPKPc	17 34.50 6.6X
VAI	151.15	349 PKP	17 29.50 1.7
DIX	151.17	351 ePKP	17 28.00 0.5
KZN	151.21	326 ePKP	17 33.00 4.7X
HVAR	151.41	336 iPKP	17 34.40 6.1X
TCF	151.43	358 iPKPc	17 35.20 6.9X
LSF	151.48	359 iPKPc	17 35.00 6.6X
MAF	151.48	358 iPKPc	17 35.60 7.2X
	0.6s	24.35nm	
ORD	151.52	350 PKP	17 36.00 7.4X
AGO	151.63	357 PKP	17 35.44 6.8X
PLDF	151.68	356 PKP	17 35.86 7.1X
LSD	151.82	351 PKP	17 36.02 6.8X
LPL	151.82	352 iPKP	17 36.70 7.5X
	0.8s	22.85nm	
LPG	151.84	352 iPKP	17 36.90 7.6X
	0.8s	21.50nm	
PYM	151.94	357 PKP	17 36.42 7.3X
BOB	152.07	347 PKP	17 36.50 7.2X
RSP	152.10	351 PKP	17 34.89 5.5X
SFI	152.28	343 PKP	17 30.00 0.5
BNI	152.28	351 PKPc	17 37.60 7.9X
ARV	152.35	341 PKP	17 37.50 7.8X
RRL	152.40	351 PKP	17 36.84 6.8X
RJF	152.43	359 iPKP	17 37.10 7.4X
	0.7s	27.55nm	
Z	20s	0.13um	4.7Msz
LBL	152.44	357 PKP	17 37.85 8.2X
PCP	152.47	348 PKP	17 36.33 6.4X
BDI	152.48	345 PKP	17 30.50 0.6
CRE	152.52	343 PKP	17 37.00 6.9X
KEK	152.68	327 ePKP	17 37.60 7.3X
DDI	152.73	350 PKPd	17 36.50 6.2X
PZZ	152.75	351 PKP	17 36.64 6.2X
LFF	152.79	1 iPKPc	17 38.10 7.9X
	0.6s	12.65nm	
CAF	152.79	358 iPKPc	17 38.40 8.1X
	0.6s	14.45nm	
ASS	152.82	341 PKP	17 38.00 7.6X
ROB	152.83	349 PKP	17 36.94 6.5X
FIN	152.85	349 PKP	17 36.33 5.9X
STV	152.97	350 PKP	17 36.12 5.5X
ENR	152.97	350 PKP	17 36.64 6.0X
LPO	153.05	360 iPKPc	17 38.70 8.1X
	0.7s	15.45nm	
IMI	153.20	349 PKP	17 37.56 6.6X
SBF	153.33	350 iPKPc	17 38.90 7.8X
	0.6s	23.45nm	
VLS	153.37	324 ePKP	17 38.00 6.7X
AZI	153.54	339 PKP	17 39.50 8.2X
SDI	153.66	338 PKP	17 39.50 7.9X
ORI	154.01	332 PKP	17 40.50 8.4X
SGD	154.08	335 PKP	17 40.00 7.9X
BCAO	158.45	234 iPKPc	17 38.50 0.1
	0.6s	9.00nm	
		ic	18 18.00
AVE	162.64	25 iPKP	17 44.00 1.9
		i	18 34.50
IFR	163.24	18 iPKPd	17 45.00 2.0
		i	18 38.00
LIC	167.17	151 PKP	17 46.70 0.2
KIC	167.42	152 PKP	17 46.80 0.1
	0.9s	13.00nm	
TIC	167.54	151 PKP	17 47.10 0.3
	0.7s	8.00nm	
LKO	169.65	140 PKPc	17 48.02 -0.1
	0.9s	14.50nm	
S.D. = 1.0 on 187 of 280 obs.			
& OCT 14, 1990 02h 06m 21.50s			
38.048 N 122.227 W			

DEPTH = 9.0km
NORTHERN CALIFORNIA (36)
<BRK>. ML 3.6 (BRK).
Mo=1.5*10**15 Nm (BRK). Felt (V)
at Crockett, Pinole and Port
Costo; (IV) at Richmond and
Rodeo; (II) at Albany and
Sonoma. Also felt at Concord,
Oakland, San Rafael and Vallejo.

ZSP	0.11	193	iPd	06 23.90	-0.3
BKS	0.17	182	iPd	06 25.20	-0.1
			iS	06 28.20	
BRK	0.18	189	iPd	06 25.20	-0.2
PCC	0.56	193	iPd	06 32.20	-0.6
MHC	0.84	146	iPc	06 37.30	-0.7
ARN	0.89	141	iPd	06 37.80	-0.9
GCC	1.03	170	iPd	06 39.40	-1.7
SAO	1.42	154	iPd	06 45.00	-2.5
CMB	1.45	90	iPc	06 46.00	-2.0
			iS	07 05.20	
ORV	1.61	20	ePc	06 47.40	-2.7
LLA	1.76	144	ePc	06 51.30	-1.0
PRS	1.84	158	ePc	06 51.80	-1.8
FRI	2.26	117	eP	06 58.00	-1.6
PRI	2.28	146	eP	06 59.80	-0.1
WDC	2.54	355	eP	07 01.70	-1.8
PHAM	2.65	146	eP	07 03.00	-2.2
LBFM	3.31	4	eP	07 12.50	-2.1
BCH	3.34	148	eP	07 12.00	-3.0
KVN	3.39	72	eP	07 21.00	5.2
TNP	3.95	88	e(P)	07 21.50	-2.3
ABL	4.01	142	eP	07 21.20	-3.4

21 obs. associated

OCT 14, 1990 02h 21m 12.54 ± 0.43s
16.209 N ± 6.1km 120.501 E ± 6.2km
DEPTH = 26.9km (5 depth phases)
4.8mb (15 obs.) 4.4Msz (5 obs.)
LUZON, PHILIPPINE ISLANDS (249)

OIZ	10.54	287	P	23 40.90	-4.1X
N	12s	1.14um			
E	16s	2.40um			
SSE	14.83	2	eP	24 42.50	0.3
		sP	24 54.50		
MNI	15.28	163	e(P)	24 56.30	8.1X
NU2	15.84	355	eP	24 56.00	0.6
Z	18s	0.50um			
GYA	16.42	311	P	25 03.40	0.5
N	15s	1.20um			
E	15s	0.90um			
LOE	18.01	276	eP	25 24.00	1.2
KMI	18.82	301	Pd	25 33.50	0.5
TIA	20.15	352	eP	25 46.40	-1.1
Z	19s	0.80um			
N	15s	0.80um			
		eS	29 28.00		
NNT	20.43	263	eP	25 48.00	-2.6
XAN	20.59	332	P	25 52.00	-0.2
N	14s	1.37um			
E	14s	0.69um			
		S	29 40.00		
BDT	20.61	276	iPc	25 55.50	3.0X
	1.0s	62.10nm			
CHG	20.72	280	ePd	25 54.00	0.4
	1.1s	20.57nm			
CD2	21.16	317	P	25 57.60	-0.5
Z	16s	2.05um			
		eS	29 49.00		
SNG	21.42	248	eP	26 05.10	4.4X
TIY	22.57	343	eP	26 10.00	-2.2
Z	16s	1.10um			
N	16s	0.80um			
TSRJ	23.70	33	P	26 24.00	1.0
BJI	24.04	352	eP	26 27.00	0.7
	1.5s	62.00nm			
		eS	29 49.00		
Z	20s	0.60um			
N	14s	0.43um			
		pP	26 33.00	21km	
LZH	24.74	326	eP	26 33.50	0.2
	1.5s	65.00nm			
		eS	29 49.00		
Z	20s	1.70um			
N	14s	1.30um			
		pP	26 41.50	28km	
		sP	26 45.50		
		ePP	27 15.00		

MAT	25.64	34	(P)	26 41.00	-0.7
	0.8s		5.22nm		4.2mb
SNY	25.67	5	eP	26 41.60	-0.2
	1.2s		30.00nm		4.8mb
Z	14s		0.50um		4.2MsZ
E	13s		0.50um		
			pP	26 51.60	37km
			S	31 03.00	
HHC	25.75	344	eP	26 43.00	0.3
Z	18s		1.20um		4.5MsZ
N	16s		0.60um		
E	16s		0.50um		
BTO	25.95	342	eP	26 45.00	0.4
N	15s		0.40um		
E	14s		0.60um		
			eSP	26 54.00	
CN2	27.82	8	eP	27 02.00	0.4
Z	15s		0.50um		4.2MsZ
N	15s		0.50um		
E	15s		0.40um		
GTA	29.34	326	Pc	27 15.60	0.1
	1.4s		40.00nm		5.0mb
Z	18s		1.30um		4.6MsZ
E	14s		0.50um		
			pP	27 22.70	25km
LSA	30.08	302	P	27 22.80	0.2
WB5	30.37	159	eP	28 33.80	0.5
WMO	39.11	322	eP	28 41.00	1.5
Z	16s		1.10um		4.8MsZ
GBA	41.64	272	Pd	29 01.00	0.5
	0.8s		8.20nm		4.5mb
ASPA	41.74	161	eP	29 01.60	0.4
	0.8s		7.10nm		4.4mb
Z	24s		0.20um		3.9MsZ
MA10	57.34	303	iPc	31 01.10	0.2
SOD	76.66	337	iP	33 02.60	0.2
SUF	77.72	332	eP	33 08.00	-0.3
	0.5s		3.80nm		4.7mb
NUR	78.89	330	eP	33 10.00	-4.8X
INK	80.84	21	eP	33 25.00	-0.1
MBC	81.15	12	ePd	33 26.60	0.0
	0.5s		6.00nm		4.9mb
UPP	82.45	330	iP	33 33.30	-0.3
DAG	84.13	351	iPc	33 41.00	-1.0
	0.7s		29.68nm		5.6mb
HFS	84.19	331	eP	33 41.10	-1.5
	1.0s		13.10nm		5.1mb
KRA	84.34	320	eP	33 44.10	0.6
			e	33 51.60	24km
NB2	84.96	333	P	33 45.80	-0.6
	1.0s		14.50nm		5.2mb
SKO	85.87	312	iP	33 51.40	0.0
			i	33 55.10	12kmX
KSP	86.27	322	eP	33 53.00	-0.1
YKA	90.54	22	eP	34 13.90	0.6
	0.7s		2.30nm		4.6mb
S.D. = 0.9 on 38 of 43 obs.					
OCT 14, 1990 03h 32m 00.93± 0.58s					
40.036 N ± 5.2km 23.666 E ± 4.9km					
DEPTH = 10.0km (geophysicist)					
GREECE (364)					
ML 3.1 (THE). MD 3.1 (ATH).					
PLG	0.38	334	iPbc	32 08.50	-0.2
OUR	0.38	39	ePd	32 09.70	0.9
			eS	32 15.66	
THE	0.80	318	ePc	32 16.18	-0.3
			eS	32 27.86	
NED	0.80	205	ePn	32 16.20	-0.4
SOH	0.82	343	ePd	32 17.54	0.7
			eS	32 29.70	
LIT	0.90	274	ePc	32 18.06	-0.2
			eS	32 30.66	
SRS	1.08	357	ePc	32 21.58	0.3
			eS	32 37.26	
GRG	1.33	314	ePc	32 26.42	0.9
AGG	1.45	226	ePd	32 26.98	-0.2
			eS	32 46.90	
KZN	1.48	281	ePn	32 27.60	0.0
MMB	1.55	2	iPgD	32 29.00	0.3
			iSg	32 46.00	
RDO	1.81	52	ePn	32 30.00	-2.3
EVR	1.82	233	ePn	32 33.60	1.0
KKB	1.88	347	eP	32 34.00	0.6
FNA	1.90	294	ePd	32 34.18	0.4

ALN	2.01	64	ePd	32	36.74	1.5
EZN	2.06	95	ePn	32	37.00	1.1
ATH	2.06	179	ePb	32	41.00	5.0X
KDZ	2.09	39	iPc	32	35.00	-1.4
PRK	2.16	111	ePb	32	43.50	6.0X
OHR	2.43	297	ePn	32	39.20	-2.2
SKO	2.56	320	iPn	32	43.40	0.2
VTS	2.58	352	iP	32	45.00	1.5
KEK	2.99	265	ePb	32	56.00	6.7X
PVL	3.41	21	eP	32	53.00	-2.2
MLR	5.70	16	eP	33	20.00	-7.8X

S.D. = 1.2 on 22 of 26 obs.

* OCT 14, 1990 04h 07m 17.09 ± 0.93s
 13.042 N ± 12.6km 90.568 W ± 8.1km
 DEPTH = 33.0km (normal)
 4.0mb (1 obs.)

NEAR COAST OF GUATEMALA (71)
 Felt (II) at Son Solvador, El
 Solvador.

VSS	1.47	62	iPc	07	41.50	-0.1
SJAS	1.50	65	iPc	07	41.80	-0.3
OZA	1.60	72	iPc	07	43.20	-0.3
VSM	2.27	80	eP	07	54.20	1.0
TPX	2.48	319	iP	07	54.00	-2.0
			iS	08	11.00	
SCX	4.18	332	eP	08	20.50	0.4
			iS	08	47.25	
PPM	9.79	309	iP	09	41.00	1.8
			iS	11	24.00	
TUL	23.25	349	eP	12	32.10	9.6X
	1.1s		6.10nm			4.0mb
CNCB	37.12	142	eP	14	27.00	-0.3
SIV	41.02	134	P	14	59.00	-0.2

S.D. = 1.2 on 9 of 10 obs.

* OCT 14, 1990 05h 31m 09.96s
 59.875 N 153.620 W
 DEPTH = 130.1km
 SOUTHERN ALASKA (2)
 <AGS-P>.

OPT	0.30	138	iP	31	27.67	0.9
			eS	31	41.40	
PDB	0.30	253	iP	31	27.52	0.8
			eS	31	41.13	
AUH	0.52	170	eP	31	28.70	-0.8
AUE	0.53	166	eP	31	28.59	-0.8
AUI	0.55	170	eP	31	28.90	-0.7
RSD	0.73	36	eP	31	30.41	-0.7
MCNL	0.78	208	eP	31	30.28	-1.0
RDT	0.93	40	iP	31	31.57	-1.0
CDD	0.95	181	eP	31	31.54	-1.2
			eS	31	48.58	
HOM	1.02	181	eP	31	32.20	-1.2
NNL	1.18	81	eP	31	34.45	-0.5
CNPM	1.26	185	eP	31	33.99	-1.8
			eS	31	52.37	
CKL	1.47	25	iP	31	37.47	-0.7
NKA	1.47	53	eP	31	39.24	1.2
BGL	1.52	23	eP	31	38.14	-0.6
SPU	1.52	30	eP	31	37.67	-1.1
			eS	31	59.96	
CRP	1.57	27	eP	31	38.75	-0.7
CGLM	1.64	28	eP	31	39.29	-0.9
NCC	1.69	25	eP	31	40.30	-0.5
SLKM	1.81	68	eP	31	40.62	-1.5
SEW	2.11	82	eP	31	43.52	-2.2
SUA	2.13	40	eP	31	44.79	-1.3
			eS	32	11.00	
SKT	2.35	25	eP	31	47.53	-1.2
PMS	2.43	54	eP	31	47.85	-2.0
PWA	2.56	44	eP	31	50.26	-1.1
PLRM	2.80	50	eP	31	52.09	-2.4
KNK	2.97	57	eP	31	55.91	-1.0
KNIM	2.98	78	eP	31	54.15	-2.8
GHO	2.99	48	eP	31	54.11	-3.0
MTU	3.01	85	eP	31	55.14	-2.1
CUT	3.01	31	eP	31	55.62	-1.7
SML	3.23	51	eP	31	57.04	-3.3
GLI	3.39	70	eP	31	59.92	-2.5
VZW	3.69	68	eP	32	03.76	-2.7
VLZ	3.82	68	eP	32	05.81	-2.2
KLU	4.12	63	eP	32	08.74	-3.5
RND	4.21	31	eP	32	11.10	-2.3
TOA	4.26	55	eP	32	11.71	-2.4

GLB	5.08	68	eP	32	22.48	-2.6
NEA	5.17	22	eP	32	23.36	-3.0
WRH	5.29	27	eP	32	24.80	-3.1
CCB	5.50	27	eP	32	27.56	-3.2
NDA	5.52	32	eP	32	27.54	-3.4
GLM	5.89	27	eP	32	32.96	-3.2

44 obs. associated

OCT 14, 1990 06h 05m 51.37 ± 0.27s
 30.534 N ± 5.3km 67.495 E ± 4.1km
 DEPTH = 12.3km (2 depth phases)
 4.7mb (16 obs.) 4.1Msz (2 obs.)

PAKISTAN (710)
 Felt (III) at Quetto.

QUE	0.58	234	iPc	06	04.00	0.9
NDI	8.66	180	iPnd	07	56.50	-2.8
	0.4s		42.37nm			6.1mb X
			iSn	09	28.00	
MAIO	8.82	313	eP	08	06.00	4.4X
			eS	10	11.00	
KSH	11.29	36	P	08	35.50	-0.1
			S	10	43.00	
BOM	12.55	156	eP	08	53.00	0.5
			eS	11	28.00	
POD	13.27	153	eP	09	02.00	-0.1
HYB	16.49	140	eP	09	49.00	4.8X
			eS	12	58.00	
GBA	19.18	149	P	10	18.00	0.5
			S	13	52.00	
LSA	20.48	86	P	10	35.00	3.7X
WMQ	20.79	45	P	10	35.00	0.2
Z	16s		0.50um			4.0MszX
			eS	14	20.50	
			sS	14	29.00	
QASM	21.54	264	eP	10	40.90	-1.7
UOSK	22.64	264	eP	10	54.30	0.7
KMSA	23.06	249	ePc	10	56.70	-1.0
GTA	27.81	63	eP	11	42.80	0.4
LZH	30.76	70	eP	12	13.50	4.6X
	2.0s		21.00nm			4.7mb
Z	15s		0.30um			4.1MszX
			pP	12	17.50	14km
CHG	30.76	105	eP	12	11.90	3.0X
	1.0s		15.25nm			4.8mb
CHTO	30.76	105	P	12	08.90	0.0
			pP	12	12.00	11km
KMI	31.55	91	eP	12	19.00	3.0X
GYA	34.54	87	P	12	42.40	0.5
XAN	35.03	73	P	12	47.60	1.7
MLR	35.56	307	eP	12	52.00	1.6
BTO	35.72	62	eP	12	52.00	0.2
TIY	37.60	67	eP	13	07.50	-0.1
Z	18s		0.40um			4.3Msz
N	17s		0.60um			
SPC	40.03	311	eP	13	32.30	4.4X
NUR	41.21	329	eP	13	30.00	-7.1X
SUF	41.66	333	eP	13	40.00	-0.8
ZST	41.95	310	eP	13	44.60	1.2
NJ2	43.57	74	Pc	14	02.50	5.6X
SOD	44.06	339	iP	14	06.60	6.3X
BRG	44.28	313	eP	14	07.60	5.2X
FVI	44.78	307	P	14	06.00	-0.5
SFI	45.47	303	P	14	13.00	1.0
CTI	45.56	306	P	14	13.00	0.1
PGD	45.57	303	P	14	14.50	1.5
HFS	46.16	326	eP	14	15.00	-1.4
	0.7s		2.10nm			4.2mb
NB2	47.57	327	P	14	26.00	-1.6
	0.8s		2.90nm			4.4mb
SBF	48.66	303	eP	14	35.00	-1.4
	0.6s		19.85nm			5.3mb
LPG	49.01	306	eP	14	39.70	-0.4
	0.6s		4.50nm			4.7mb
LPL	49.02	306	eP	14	39.70	-0.4
	0.6s		5.40nm			4.8mb
DOU	50.22	312	P	14	50.30	1.4
LBF	50.81	308	eP	14	52.00	-0.8
	0.6s		2.70nm			4.4mb
LOR	50.87	308	eP	14	54.10	0.2
	0.1s		0.40um			2.4mb X
Z	20s		0.15um			4.0Msz
SMF	50.93	307	eP	14	54.00	-0.5
	0.8s		6.70nm			4.6mb
SSF	51.13	308	eP	14	56.20	0.3
	0.7s		4.40nm			4.5mb
CAF	52.36	305	eP	15	05.40	0.1

BCAD	0.8s		6.70nm			4.6mb
	52.87	251	iPc	15	09.50	0.1
	0.5s		14.00nm			5.1mb
LKO	70.60	270	P	17	08.58	-0.8
	0.9s		13.00nm			5.1mb
KIC	71.50	266	P	17	14.00	-0.3
TIC	71.60	267	P	17	14.60	-0.3
MBC	73.39	2	eP	17	24.50	0.1
	1.0s		7.00nm			4.7mb
INK	80.22	8	ePd	18	03.30	0.6
FBA	80.98	14	P	18	07.30	0.5
WB5	81.48	119	eP	18	10.50	0.3
YKA	87.28	1	eP	18	39.00	0.3
	0.7s		4.80nm			4.9mb
FFC	94.61	354	eP	19	18.00	4.9X
	0.7s		9.00nm			5.3mb

S.D. = 1.0 on 43 of 55 obs.

% OCT 14, 1990 06h 33m 14.97 ± 2.51s
 39.990 N ± 17.7km 23.621 E ± 9.5km
 DEPTH = 5.0km (geophysicist)
 AEGEAN SEA (365)
 ML 2.5 (THE).

OUR	0.44	39	ePd	33	23.74	-0.1
			eS	33	30.02	
THE	0.81	322	ePc	33	30.94	-0.3
			eS	33	41.34	
SOH	0.86	346	ePd	33	31.50	-0.5
			eS	33	43.82	
LIT	0.88	278	ePc	33	32.26	0.0
			eS	33	44.98	
SRS	1.13	359	iPd	33	37.06	0.5
			eS	33	51.22	
KNT	1.29	335	ePc	33	39.38	0.0
			eS	33	57.18	
GRG	1.34	316	ePd	33	40.54	0.3
			eS	33	59.78	

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

* OCT 14, 1990 06h 48m 18.14s
 63.073 N 149.361 W
 DEPTH = 84.6km
 CENTRAL ALASKA (1)
 <AGS-P>. Felt (III) at Cantwell.

HUR	0.16	233	iP	48	30.28	1.5
			eS	48	39.75	
RND	0.41	34	iP	48	31.71	-0.2
MCK	0.69	16	iP	48	34.24	-0.1
			eS	48	46.23	
CUT	0.79	212	iP	48	35.21	-0.1
GHO	1.32	171	eP	48	41.21	-0.6
			eS	48	59.86	
SML	1.36	159	eP	48	42.03	-0.2
PWA	1.45	190	iP	48	43.59	0.3
SKT	1.49	223	iP	48	43.55	-0.4
			iS	49	02.83	
PLRM	1.49	176	eP	48	43.77	-0.1
PMR	1.49	176	iPc	48	44.00	0.1
			iS	49	04.30	
WRH	1.51	21	iP	48	43.58	-0.6
			eS	49	01.91	
NEA	1.52	5	iP	48	43.38	-0.9
			eS	49	02.11	
SCM	1.5					

14d 06h

CKL	2.35	218	eP	48	55.32	-0.2
VLZ	2.41	142	eP	48	54.99	-1.3
VZW	2.41	146	eP	48	55.20	-1.2
GLI	2.45	153	iP	48	55.65	-1.2
DOT	2.46	74	eP	48	56.78	-0.2
			eS	49	26.38	
NKA	2.50	202	eP	49	00.51	3.0
SLKM	2.61	189	eP	48	59.31	0.3
KNIM	2.84	163	eP	49	01.21	-1.0
RDT	2.89	211	eP	49	03.71	0.7
SEW	2.98	181	eP	49	03.56	-0.5
TTA	3.04	270	iPc	49	04.00	-1.0
GLB	3.07	120	iP	49	04.75	-0.7
RSO	3.08	213	eP	49	06.82	1.2
RED	3.12	213	eP	49	06.05	-0.1
NNL	3.18	198	iP	49	07.88	1.0
MTU	3.20	164	eP	49	06.99	-0.2
IMA	3.54	330	ePd	49	11.10	-0.9
SVW	3.54	239	ePd	49	11.10	-0.9
HOM	3.60	199	eP	49	12.49	-0.2
CNPM	3.67	195	eP	49	12.89	-0.9
TGL	3.87	124	eP	49	14.87	-1.6
BALM	3.88	119	eP	49	15.33	-1.4
DPT	3.90	210	eP	49	16.87	-0.1
FYU	3.93	25	eP	49	15.98	-1.2
PDB	4.03	217	eP	49	18.66	0.0
AUE	4.20	209	eP	49	21.03	0.0
AUH	4.21	210	eP	49	21.71	0.4
AUI	4.23	209	eP	49	21.93	0.4
CDD	4.65	209	eP	49	25.63	-1.7
KDC	5.56	198	eP	49	38.10	-1.9
INK	8.36	44	P	50	17.00	-1.5

60 obs. associated

? OCT 14, 1990 07h 01m 27.81±1.95s
6.414 S ±20.9km 130.734 E ±31.5km
DEPTH = 133.6 ± 29.3 km
4.5mb (2 obs.)

BANDA SEA

(280)

AAI	3.71	317	ePc	02	24.50	0.0
MTN	6.40	177	eP	03	02.00	1.0
KNA	9.48	192	iPc	03	42.00	-0.4
			eS	05	22.00	
WB5	13.84	166	eP	04	37.90	-1.7
			eS	07	07.50	
ASPA	17.42	170	eP	05	25.40	1.2
	0.7s	36.60nm			4.8mb	
			iS	08	32.60	
MBL	18.06	215	eP	05	31.10	-0.7
	0.4s	6.00nm			4.2mb	
			eS	08	37.00	
NANU	21.74	221	eP	06	10.10	0.6

S.D. = 1.4 on 7 of 7 obs.

? OCT 14, 1990 08h 12m 21.92±9.16s
8.875 N ±54.6km 70.954 W ±58.2km
DEPTH = 5.0km (geophysicist)

VENEZUELA

(101)

SDV	0.32	88	iPgd	12	28.00	-0.4
			iSg	12	29.40	
TOV	1.46	52	ePn	12	47.70	-1.3
			iSn	13	02.60	
CEOS	2.59	86	iPd	13	04.50	-0.8
			iS	13	37.00	
PLAY	3.55	73	eP	13	27.00	8.0X
GUAC	3.86	70	eP	13	23.00	-0.4
			eS	14	23.00	
OLLA	4.25	74	eP	13	29.00	0.1
			iS	14	32.00	
CAR	4.29	67	eP	13	30.00	0.5
			eS	14	34.00	
LLAV	4.39	68	iPc	13	33.00	2.2
			iS	14	35.00	

S.D. = 1.4 on 7 of 8 obs.

* OCT 14, 1990 08h 44m 34.57±0.94s
38.050 N ±13.3km 98.083 E ±10.8km
DEPTH = 10.0km (geophysicist)

QINGHAI PROVINCE, CHINA

(325)

ML 3.8 (BJI).

GTA	1.92	44	iPgd	45	09.40	1.7
			Sg	45	37.00	
LZH	5.01	111	Pn	45	50.00	-1.7

			Pg	46	03.50	
			Sn	46	46.00	
CD2	8.52	145	eP	46	42.60	1.6
BTO	9.59	71	eP	46	55.00	-0.8
WMO	9.74	310	P	46	57.00	-0.8
	Z	14s	0.50um			
SSE	20.22	103	eP	49	12.00	-0.4
CN2	21.41	66	eP	49	30.00	5.5X
HFS	55.25	323	eP	54	09.70	-0.1
	0.4s	0.90nm			4.2mb	
NB2	56.14	324	P	54	16.80	0.5
	0.7s	1.50nm			4.1mb	

S.D. = 1.4 on 8 of 9 obs.

% OCT 14, 1990 09h 06m 24.30±0.55s
43.111 N ± 6.6km 0.618 W ± 3.6km
DEPTH = 10.0km (geophysicist)

PYRENEES

(378)

MD 1.2 (STR).

ESCF	0.05	135	Pg	06	26.45	0.0
			Sg	06	28.34	
ATE	0.07	248	Pg	06	26.71	0.1
			Sg	06	28.53	
OGE	0.12	62	Pg	06	27.43	0.1
MADF	0.15	283	Pg	06	28.04	0.2
			Sg	06	30.51	
ISSF	0.15	237	Pg	06	28.23	0.3
			Sg	06	31.00	
JAU	0.20	112	Pg	06	28.60	-0.1
			Sg	06	32.24	
LME	0.20	181	Pg	06	28.58	-0.1
ELYF	0.28	282	Pg	06	29.86	-0.3
BOH	0.29	268	Pg	06	30.25	-0.1
			Sg	06	34.71	

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

% OCT 14, 1990 09h 13m 00.16±0.86s
47.216 N ± 7.6km 0.305 W ± 9.7km
DEPTH = 10.0km (geophysicist)

FRANCE

(538)

ML 2.3 (LDG).

MFF	0.62	170	Pg	13	13.00	0.3
			Sg	13	21.60	
LPF	0.96	329	Pg	13	19.20	0.9
			Sg	13	33.00	
GRR	1.23	343	Pg	13	23.20	0.2
			Sg	13	39.40	
LDF	1.38	5	Pg	13	24.00	-1.5
			Sg	13	40.70	
FLN	1.55	356	Pg	13	27.60	-0.2
			Sg	13	47.40	
LSF	1.59	127	Pg	13	27.00	-1.4
			Sg	13	45.20	
TCF	1.96	117	Pg	13	27.60	-6.2X
			Sg	13	54.80	
BGF	2.26	106	Pg	13	37.60	-0.5
			Sg	14	02.60	
SSF	2.61	92	Pg	13	43.40	0.4
			Sg	14	12.20	
CAF	2.82	143	Pg	13	50.40	4.2X
			Sg	14	26.00	
LOR	2.84	87	Pg	13	47.00	0.6
			Sg	14	18.80	
LBF	2.93	93	Pg	13	49.00	1.3
			Sg	14	22.60	

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

? OCT 14, 1990 09h 19m 15.65±6.71s
4.287 S ±20.7km 79.931 W ±100.km
DEPTH = 90.0km (geophysicist)

PERU-ECUADOR BORDER REGION

(110)

TUNG	3.21	28	P	20	05.80	0.5
VC1	3.93	23	eP	20	15.00	-0.4
			eS	20	41.50	
OTO	4.29	19	eP	20	21.40	1.1
OUR	4.32	19	ePn	20	20.00	-0.7
			iPg	20	21.50	
			S	21	12.50	
YANA	4.36	18	iP+	20	21.20	-0.1
			S	21	13.50	
CAYA	4.75	24	P	20	26.30	-0.5
COTA	4.86	19	P	20	28.50	0.2
SIV	21.88	123	P	24	02.60	0.0

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

? OCT 14, 1990 09h 27m 38.52±4.68s
34.574 N ±40.3km 22.687 E ±22.8km
DEPTH = 33.0km (normol)

4.3mb (1 obs.)

MEDITERRANEAN SEA

(400)

MD 3.7 (ATH).

VAM	1.49	56	ePg	28	01.00	-2.3
VLI	2.15	5	ePb	28	15.70	3.0X
NPS	2.50	73	ePn	28	22.00	4.2X
ITM	2.67	347	ePn	28	28.70	8.5X
APE	3.40	42	ePn	28	30.00	-0.5
ATH	3.49	13	ePn	28	33.10	1.3
KAP	3.81	74	ePn	28	38.00	1.7
NEO	4.74	5	ePn	28	50.50	0.9
DHR	6.70	348	iPn	29	16.40	-0.7
KHC	16.03	338	eP	31	29.50	6.5X
HFS	26.24	350	eP	33	11.60	-0.4
	0.6s	5.60nm			4.3mb	

S.D. = 1.7 on 7 of 11 obs.

OCT 14, 1990 09h 52m 41.01±0.32s
30.823 N ± 7.3km 86.385 E ± 5.6km
DEPTH = 12.0km (2 depth phases)

4.9mb (27 obs.)

TIBET

(306)

LSA	4.27	104	Pg	54	00.00	12.3X
			Sg	55	06.00	
SHL	7.14	136	iP	54	27.00	-0.9
			eS	55	47.00	
NDI	8.25	257	iPnc	54	41.00	-2.3
	0.5s	54.93nm			6.1mb X	
			iSn	56	11.00	
KSH	12.10	318	eP	55	36.00	-0.3
WMO	13.02	4	eP	55	57.00	8.6X
	Z	10s	0.30um			
GTA	13.92	48	eP	56	08.30	7.9X
	Z	12s	0.50um			
CD2	14.92	85	eP	56	16.40	2.9
HYB	15.13	210	eP	56	24.00	7.7X
			eS	58	54.00	
KMI	15.52	107	eP	56	22.50	1.0
	1.0s	100.00nm			5.0mb	
CHG	16.50	134	eP	56	34.20	0.3
	0.9s	18.07nm			4.2mb	
PDO	16.70	226	eP	56	40.00	3.6X
QUE	16.77	273	eP	56	25.20	-12.2X
BDT	17.74	137	eP	56	52.00	2.6
GYA	18.32	99	P	56	57.00	0.3
GBA	19.02	208	P	57	05.00	-0.2
			S	00	23.00	
XAN	19.29	74	eP	57	06.00	-2.5
NNT	21.94	143	eP	57	38.00	1.8
KOD	22.10	204	eP	57	39.50	1.3
TIY	22.56	65	eP	57	40.80	-1.5
	Z	12s	0.60um		4.2mszX	
HHC	22.66	57	eP	57	43.60	0.2
MAIO	23.03	291	iPd	57	46.00	-1.0
	1.0s	16.00nm			4.5mb	
			eS	02	00.00	
BJI	25.86	61	eP	58	14.00	0.0
SSE	29.77	80	eP	58	47.80	-1.9
SNY	31.69	59	eP	59	05.30	-1.2
CN2	33.35	56	eP	59	19.00	-2.0
SUF	49.51	328	eP	01	31.00	-2.0
NUR	49.86	325	eP	01	38.00	2.3
SDD	50.37	334	eP	01	41.00	1.5

CDF	60.76	311	eP	02 55.30	0.4
MBL	60.86	144	eP	02 54.40	-1.3
BSF	61.22	311	eP	02 58.20	0.2
	0.7s	6.60nm		4.9mb	
HAU	61.46	311	eP	03 00.00	0.4
	0.6s	3.60nm		4.7mb	
Z	20s	0.08um		3.8mszx	
LPG	61.88	308	eP	03 03.50	0.7
	0.8s	8.05nm		4.9mb	
LPL	61.89	308	eP	03 03.40	0.6
	0.7s	7.70nm		5.0mb	
DOU	62.02	314	P	03 04.90	1.6
	0.7s	5.50nm		4.8mb	
LBF	63.29	311	eP	03 11.00	0.0
	0.6s	3.15nm		4.7mb	
SMF	63.48	310	eP	03 13.30	0.3
	0.8s	9.40nm		5.0mb	
SSF	63.58	311	eP	03 13.80	0.2
	0.6s	5.40nm		4.9mb	
AVF	63.76	311	eP	03 15.00	0.2
	0.7s	4.40nm		4.8mb	
MAF	64.45	310	eP	03 20.10	0.7
	0.8s	6.70nm		4.9mb	
TCF	64.67	310	eP	03 20.80	0.0
	0.8s	6.70nm		4.9mb	
EKA	65.02	321	P	03 24.00	1.1
	1.0s	10.90nm		5.0mb	
LDF	65.41	313	eP	03 25.90	0.3
	0.6s	10.80nm		5.2mb	
GRR	65.94	313	eP	03 29.30	0.4
	0.6s	10.80nm		5.2mb	
LPF	66.18	313	eP	03 31.00	0.6
	0.8s	10.75nm		5.1mb	
BCAO	68.74	262	iPc	03 44.40	-2.8
	0.4s	6.00nm		5.1mb	
ASPA	70.78	134	eP	03 58.30	-1.1
	0.6s	9.20nm		5.1mb	
MBC	71.97	6	eP	04 08.00	2.2
IMA	73.12	22	e(P)	04 14.30	1.4
FBA	75.74	21	P	04 26.50	-1.3
		pP	04 30.30	12km	
INK	76.82	14	eP	04 32.50	-1.3
PMR	77.59	24	eP	04 36.80	-1.4
	0.6s	9.10nm		5.0mb	
		e	04 40.50	12km	
YKA	85.49	10	eP	05 21.30	1.7
	0.7s	3.80nm		4.7mb	
KIC	87.75	276	P	05 30.00	-1.5
SIV	146.83	289	PKP	12 23.80	0.4
ZOBO	152.59	296	ePKP	12 31.00	-1.9
LPB	152.73	296	PKP	12 34.00	1.1
CNCB	152.80	295	PKP	12 33.00	-0.2

S.D. = 1.4 on 63 of 69 obs.

? OCT 14, 1990 10h 04m 47.58 ± 0.97s
 39.095 N ± 8.3km 27.592 E ± 9.9km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 2.2 (ISK).

IZM	0.74	200	eP	05 02.30	0.1
		eSg	05 13.30		
DST	0.95	57	iPn	05 05.40	-0.3
EZN	1.22	307	ePn	05 10.00	-0.3
BNT	1.28	11	ePn	05 11.90	0.5

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

% OCT 14, 1990 10h 16m 41.19 ± 0.92s
 39.265 N ± 8.5km 27.719 E ± 8.8km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 2.6 (ISK).

DST	0.78	64	iPg	16 55.40	-1.1
		eSg	17 07.40		
IZM	0.94	203	ePn	16 58.90	-0.2
EDC	1.09	6	iPn	17 01.00	-0.6
BNT	1.10	8	ePn	17 01.40	-0.5
EZN	1.21	298	ePn	17 04.00	0.2
IZI	1.72	51	ePn	17 11.40	-0.1
YLV	1.82	44	iPn	17 15.00	2.2

S.D. = 1.3 on 7 of 7 obs.

? OCT 14, 1990 10h 49m 23.95 ± 2.77s
 15.797 N ± 17.5km 146.102 E ± 25.2km
 DEPTH = 55.8 ± 28.4 km
 4.4mb (2 obs.)

MARIANA ISLANDS (216)

GUMO	2.50	209	eP	50 02.80	-0.2
PJG	2.50	209	eP	50 03.10	0.1
GUA	2.52	207	eP	50 03.10	-0.2
		eS	50 34.00		
SSE	27.37	308	eP	55 06.40	0.4
	1.0s	12.00nm		4.5mb	
WB5	37.28	198	eP	56 33.00	0.6
FBA	65.73	25	(P)	00 05.00	0.3
INK	71.88	23	eP	00 41.50	-1.2
YKA	80.36	28	eP	01 29.40	-1.1
	0.8s	3.40nm		4.3mb	
TNP	85.54	52	P	01 59.90	2.1
SES	85.94	39	eP	02 00.00	0.6
ZOBO	147.12	96	PKP	09 06.80	5.1X
LPB	147.17	96	ePKP	09 00.00	-1.5
CNCB	147.29	97	PKP	09 05.00	3.1X

S.D. = 1.2 on 11 of 13 obs.

% OCT 14, 1990 10h 52m 44.91 ± 0.88s
 39.139 N ± 7.2km 27.624 E ± 9.1km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 2.5 (ISK).

IZM	0.79	201	eP	53 00.30	0.0
		eSg	53 12.30		
DST	0.91	59	iPn	53 02.40	0.1
EZN	1.22	305	ePn	53 07.60	0.1
EDC	1.22	9	iPn	53 08.00	0.4
BNT	1.24	11	ePn	53 07.40	-0.5

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

? OCT 14, 1990 10h 57m 05.84 ± 0.85s
 46.667 N ± 5.6km 6.839 E ± 47.7km
 DEPTH = 10.0km (geophysicist)

SWITZERLAND (544)
 ML 2.3 (LDG).

LPL	1.15	184	Pg	57 27.60	0.0
		Sg	57 44.00		
BSF	1.17	358	Pg	57 26.80	-0.9
LPG	1.17	183	Pg	57 27.80	-0.1
HAU	1.38	346	Pg	57 31.60	0.5
		Sg	57 51.60		
CDF	1.77	9	Pg	57 37.30	0.5
		Sg	57 59.40		
LBF	1.99	280	Pg	57 47.60	7.7X
		Sg	58 16.20		
SMF	2.07	270	Pg	57 48.40	7.4X
		Sg	58 18.40		
LOR	2.13	288	Pg	57 49.40	7.5X
		Sg	58 19.80		
SSF	2.32	281	Pg	57 53.60	8.9X
		Sg	58 27.50		

S.D. = 0.8 on 5 of 9 obs.

? OCT 14, 1990 11h 02m 40.10 ± 1.31s
 16.301 N ± 13.7km 144.815 E ± 66.0km
 DEPTH = 33.0km (normal)
 5.1mb (1 obs.)

MARIANA ISLANDS REGION (215)

PJG	2.70	179	eP	03 21.80	-0.4
GUMO	2.70	179	eP	03 21.70	-0.5
GUA	2.75	178	eP	03 22.50	-0.4
		eS	03 53.00		
WB5	37.39	196	eP	09 52.20	0.3
FBA	65.81	26	(P)	13 22.20	-1.9
INK	71.90	23	eP	14 01.00	-0.7
TNP	86.20	52	(P)	15 22.00	1.9
SES	86.32	38	eP	15 19.00	-1.2
FFC	89.56	32	eP	15 35.00	-0.6
	0.7s	8.00nm		5.1mb	
ZOBO	148.40	95	PKP	22 25.00	2.1
LPB	148.45	95	ePKP	22 24.00	1.3
CNCB	148.58	96	PKP	22 27.00	3.9X

S.D. = 1.4 on 11 of 12 obs.

OCT 14, 1990 11h 42m 43.94 ± 0.22s
 46.685 N ± 2.0km 7.288 E ± 2.6km
 DEPTH = 10.0km (geophysicist)

SWITZERLAND (544)
 ML 3.1 (LDG), 2.7 (VIE). MD 2.9 (STR).

DIX	0.61	172	ePc	42 54.90	-1.6
EMS	0.66	202	ePc	42 56.40	-0.9
LOMF	0.74	335	Pg	42 59.51	1.1
			Sg	43 10.86	
MMK	0.79	143	ePc	42 57.60	-1.8
ZLA	1.10	43	eP	43 04.60	0.0
ORO	1.16	155	P	43 05.50	-0.3
			eSg	43 22.00	
MOF	1.17	355	Pn	43 06.47	0.6
			Pg	43 07.27	
			Sg	43 23.25	
LLS	1.19	80	ePc	43 05.40	-0.9
BSF	1.20	344	Pg	43 07.84	1.5
			Sg	43 25.03	
LPL	1.23	198	Pn	43 07.20	0.2
			Pg	43 08.80	
			Sg	43 26.60	
LSD	1.23	184	P	43 07.25	0.2
			S	43 22.43	
TMA	1.24	117	ePd	43 06.20	-0.9
LPG	1.24	198	Pn	43 07.60	0.3
FEL	1.29	22	ePn	43 06.92	-1.0
VAI	1.31	128	P	43 09.00	0.8
			eSg	43 24.50	
SLE	1.36	37	ePd	43 07.70	-1.2
HAU	1.47	335	Pn	43 10.80	0.3
			Pg	43 12.90	
			Sg	43 31.20	
SAX	1.52	67	eP	43 12.10	0.7
ECH	1.53	357	Pn	43 11.08	-0.3
			Sg	43 33.97	
RSP	1.53	181	P	43 12.28	0.8
			S	43 30.01	
BNI	1.69	195	P	43 15.10	1.4
			eSg	43 35.00	
CDF	1.73	360	Pn	43 13.71	-0.6
			Sg	43 40.51	
WLS	1.73	1	Pn	43 13.77	-0.5
			Sg	43 40.26	
VITF	1.77	330	Pn	43 15.16	0.4
RRL	1.80	191	P	43 18.12	2.6
			S	43 39.86	
MDI	1.91	117	P	43 17.60	0.8
PZZ	2.18	184	P	43 21.40	0.4
			S	43 45.24	
LBF	2.29	279	Pn	43 22.50	0.1
			Pg	43 28.20	
			Sg	43 57.50	
PCP	2.32	157	P	43 23.56	0.8
SMF	2.37	270	Pn	43 24.00	0.5
			Pg	43 30.10	
			Sg	43 58.60	
LOR	2.42	285	Pn	43 24.80	0.6
			Pg	43 30.00	
			Sg	44 00.00	
ROB	2.43	170	P	43 24.48	0.2
STV	2.44	179	P	43 23.86	-0.7
ENR	2.46	178	P	43 24.16	-0.7
FIN	2.56	165	P	43 26.53	0.3
SSF	2.62	280	Pn	43 26.40	-0.6
			Pg	43 34.40	
			Sg	44 08.00	
AVF	2.71	274	Pn	43 28.20	-0.1
			Sg	44 09.60	
SQTA	2.74	77	e(Pn)	43 29.80	0.9
			iPg	43 35.00	
			i	44 02.10	
			iSg	44 10.20	
IMI	2.81	171	P	43 29.71	-0.1
SBF	2.82	178	Pn	43 30.00	0.0
WATA	3.01	76	iPg	43 40.10	7.5X
			iSg	44 18.60	
BGF	3.06	269	Pn	43 32.80	-0.5
			Sg	44 21.20	
FRF	3.16	188	Pn	43 35.00	0.4
MAF	3.30	264	Pn	43 36.30	-0.3
			Sg	44 30.00	
TCF	3.53	265	Pn	43 39.50	-0.4
			Sn	44 21.00	
DOU	3.86	333	P	43 44.40	-0.1
	0.3s		5.60nm		
			S	44 29.00	
LSF	4.00	266	Pn	43 46.10	-0.5
			Sn	44 32.00	
MEM	4.02	348	iP	43 46.80	0.0
SNF	4.32	334	P	43 52.30	1.2
MFF	5.12	272	Pn	44 01.60	-0.9

14d 11h

GRR 5.77 290 Pn 44 10.40 -1.3
 LPF 5.82 286 Pn 44 11.40 -0.9
 S.D. = 0.9 on 51 of 52 obs.

& OCT 14, 1990 11h 53m 35.04s
 62.514 N 151.268 W
 DEPTH = 93.2km
 CENTRAL ALASKA (1)
 <AGS-P>.

CUT 0.48 103 iP 53 50.04 -0.1
 SKT 0.55 193 eP 53 50.77 0.0
 HUR 0.88 57 eS 54 02.54
 PWA 1.09 142 eP 53 56.17 0.0
 NCG 1.19 201 eP 53 57.21 -0.4
 GHO 1.33 123 eP 53 59.17 -0.1
 BGL 1.36 203 eP 53 59.62 -0.1
 PLRM 1.37 132 eP 53 59.12 -0.5
 RND 1.42 50 eP 53 59.99 -0.4
 PMS 1.51 147 eP 54 01.09 -0.4
 SML 1.55 116 iP 54 01.70 -0.3
 TOA 2.42 98 eP 54 12.75 -0.8
 GLI 2.58 128 eP 54 14.18 -1.5
 SDG 2.65 87 eP 54 16.41 -0.3
 KLU 2.72 110 eP 54 16.32 -1.4
 15 obs. associated

% OCT 14, 1990 12h 25m 55.99 ± 0.58s
 40.689 N ± 4.7km 23.380 E ± 5.2km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 2.9 (THE).

SOH 0.13 352 iPd 25 59.58 0.3
 THE 0.32 260 ePc 26 02.34 -0.3
 SRS 0.46 21 ePc 26 05.06 -0.2
 OUR 0.58 127 ePc 26 07.82 0.1
 KNT 0.60 322 ePd 26 07.58 -0.5
 GRG 0.79 290 ePc 26 11.42 0.1
 LIT 0.90 229 iPc 26 13.10 -0.1
 FNA 1.53 274 ePc 26 24.18 0.8
 AGG 1.85 206 iPd 26 27.82 -0.2
 S.D. = 0.5 on 9 of 9 obs.

OCT 14, 1990 13h 17m 37.54 ± 0.53s
 45.959 N ± 4.4km 26.983 E ± 4.7km
 DEPTH = 39.9 ± 9.2 km
 4.2mb (7 obs.)

ROMANIA (358)
 MD 3.7 (ATH). Felt (V) in the
 epicentral area and (IV) at
 Focsoni.

VRI 0.20 244 iPc 17 43.00 -1.9
 CVO 0.58 257 iPc 17 50.00 0.6
 BAC 0.61 355 iP 17 56.00 6.2X
 MLR 0.87 238 iPd 17 50.00 -3.5X
 ISR 0.88 201 iPc 17 57.00 3.4X
 PTT 1.06 337 iPc 17 58.00 1.9
 CFR 1.13 133 iPc 17 58.00 0.9
 IAS 1.30 18 iPc 18 03.00 3.5X
 CMP 1.53 244 iPd 18 05.00 2.2
 MTUR 1.53 242 iPd 18 04.00 1.1
 TLB 1.56 151 iPc 18 04.00 0.8
 BUC1 1.75 203 eP 18 10.00 4.1X
 TNR 1.92 262 ePc 18 08.00 -0.4
 COZ 1.96 252 iPc 18 10.00 0.9
 DRA 2.31 237 ePd 18 18.00 4.0X
 BMR 2.94 307 ePc 18 24.00 1.1
 SRE 2.96 245 eP 18 26.50 3.3X
 BZS 3.77 267 ePc 18 33.00 -1.7
 DMK 4.17 172 iPn 18 40.50 0.1
 BEO 4.74 258 ePn 18 57.50 9.1X
 RDO 4.92 193 iPbd 18 51.20 0.2
 ALN 5.11 188 iPc 18 53.76 0.2
 ISK 5.12 162 ePn 18 53.40 -0.3
 MFT 5.17 177 ePn 18 53.00 -1.6
 PSZ 5.24 295 iPn 18 53.70 -1.8

SRS 5.43 208 ePd 18 58.48 0.3
 HRT 5.49 158 ePn 18 59.40 0.3
 KNT 5.64 213 ePd 19 01.48 0.4
 BNT 5.64 173 iPn 19 01.60 0.4
 EDC 5.65 173 iPn 19 02.00 0.8
 SKO 5.65 227 ePn 19 02.00 0.8
 YLV 5.67 161 iPn 19 00.90 -0.6
 SOH 5.78 209 ePc 19 03.24 0.2
 IZI 5.91 161 ePn 19 04.80 -0.2
 GRG 6.01 215 ePd 19 05.80 -0.5
 OUR 6.03 202 ePc 19 05.92 -0.7
 THE 6.08 210 ePd 19 07.36 0.1
 EZN 6.15 185 iPn 19 08.30 0.0
 PLG 6.15 206 ePbc 19 08.40 0.1
 GPA 6.17 156 iPn 19 08.70 0.1
 SRO 6.23 290 iP 19 07.60 -1.7
 KRA 6.25 313 eP 19 07.40 -2.3
 DST 6.46 169 ePn 19 12.30 -0.4
 FNA 6.59 220 ePc 19 14.24 -0.3
 LIT 6.72 211 ePc 19 16.32 0.1
 KAS 6.72 131 eP 19 18.00 1.6
 KZN 6.81 216 iPnd 19 18.00 0.4
 NEO 7.20 204 ePn 19 22.20 -0.8
 ALT 7.28 160 iPn 19 23.70 -0.4
 BBTk 7.44 143 eP 19 37.00 10.6X
 KVT 8.19 123 eP 19 35.00 -1.9
 KSP 8.63 308 iP 19 43.30 0.5

KHC 9.60 294 eP 19 58.00 1.7
 LPL 14.15 275 eP 21 05.10 7.6X
 DOU 15.52 294 P 21 20.90 5.9X
 LOR 15.94 283 eP 21 23.90 3.5X
 SSF 16.19 282 eP 21 26.90 3.3X
 NRA0 17.36 334 Pn 21 31.30 -6.9X
 NB2 17.70 334 P 21 37.20 -5.2X
 BCAA 42.01 193 iPd 25 26.00 -0.6
 YKA 67.62 342 eP 28 32.20 0.4
 S.D. = 1.1 on 46 of 61 obs.

? OCT 14, 1990 14h 32m 58.46 ± 5.96s
 28.537 S ± 71.0km 67.324 W ± 50.2km
 DEPTH = 33.0km (normal)
 LA RIOJA PROVINCE, ARGENTINA (138)

CYA 1.35 86 iPd 33 21.20 0.0
 RTLL 2.96 199 iPc 33 44.30 0.1
 RTCB 3.21 203 eP 33 47.80 0.0
 RTCV 3.47 197 e(P) 33 51.50 -0.1
 RTBS 3.62 210 e(P) 33 53.50 0.0
 PEL 5.42 211 eP 34 28.00 8.8X
 S.D. = 0.1 on 5 of 6 obs.

& OCT 14, 1990 15h 13m 40.94s
 63.179 N 150.637 W
 DEPTH = 132.5km
 CENTRAL ALASKA (1)
 <AGS-P>.

HUR 0.50 113 eP 14 00.14 -0.4
 CUT 0.80 168 iP 14 02.20 -0.3
 RND 0.84 73 eP 14 02.58 -0.4
 MCK 0.95 53 eP 14 03.49 -0.4
 SKT 1.27 199 iP 14 06.61 -0.5
 NEA 1.56 25 iP 14 08.98 -1.3
 PWA 1.57 167 eP 14 10.05 -0.3
 GHO 1.62 150 iP 14 10.56 -0.5

WRH 1.72 40 eS 14 34.12
 SUA 1.72 182 eP 14 11.11 -1.0
 PLRM 1.74 156 iP 14 11.27 -0.0
 SML 1.74 141 iP 14 11.50 -0.9
 NCG 1.92 202 eP 14 13.45 -1.1
 CCB 1.93 39 eP 14 13.55 -1.1
 CGLM 1.98 199 eP 14 14.79 -0.6
 PMS 2.01 165 eP 14 14.77 -0.8
 KNK 2.05 149 eP 14 14.93 -1.1
 SCM 2.04 130 eP 14 15.23 -0.9
 CRP 2.05 201 eP 14 15.32 -0.9
 HDA 2.05 51 eP 14 14.91 -1.1
 BGL 2.09 204 eP 14 16.20 -0.5
 SPU 2.11 199 eP 14 15.74 -1.2
 FBA 2.13 35 eP 14 16.10 -1.0
 CKL 2.14 203 eP 14 16.80 -0.6
 DDM 2.23 72 eP 14 18.03 -0.3
 GLM 2.31 37 eP 14 18.41 -1.0
 TOA 2.33 116 eP 14 19.36 -0.3
 SDG 2.43 103 eP 14 20.17 -0.7
 SLKM 2.69 176 eP 14 23.41 -0.8
 RDT 2.75 199 eP 14 24.14 -0.9
 KLU 2.78 125 eP 14 23.87 -1.5
 GLI 2.85 143 eP 14 24.70 -1.6
 VZW 2.86 136 eP 14 24.86 -1.7
 VLZ 2.88 134 eP 14 24.65 -2.0
 DOT 2.99 78 eP 14 27.00 -1.2
 SVW 3.13 231 eP 14 28.00 -2.0
 SEW 3.14 169 eP 14 28.31 -1.7
 KNIM 3.16 153 eP 14 28.24 -2.1
 MTU 3.51 155 eP 14 33.00 -1.9
 GLB 3.63 116 iP 14 35.62 -1.0
 CNPM 3.68 185 eP 14 35.86 -1.4
 PDB 3.81 208 eP 14 36.58 -2.3
 TGL 4.41 120 eP 14 45.56 -1.6
 DWY 5.08 75 P 14 54.40 -1.6
 44 obs. associated

% OCT 14, 1990 16h 02m 51.92 ± 0.74s
 37.122 N ± 6.8km 3.547 W ± 6.2km
 DEPTH = 10.0km (geophysicist)
 SPAIN (377)
 mbLg 2.2 (MDD).

AFC 0.13 1 iP 02 55.20 0.0
 ECOG 0.16 354 iP 02 55.40 -0.2
 EBAN 1.06 350 eP 03 12.00 0.1
 ENIJ 1.08 98 iP 03 12.20 0.0
 EPRU 1.36 264 eP 03 16.50 -0.4
 EHOR 1.52 298 eP 03 19.50 0.3
 EJIF 1.68 247 eP 03 21.60 0.1
 S.D. = 0.3 on 7 of 7 obs.

? OCT 14, 1990 16h 13m 24.02 ± 1.41s
 28.762 N ± 18.2km 81.951 E ± 10.2km
 DEPTH = 143.2 ± 19.8 km
 4.3mb (2 obs.)

NEPAL-INDIA BORDER REGION (309)

NDI 4.16 270 ePn 14 27.00 0.1
 SHL 9.40 107 eP 15 05.50 0.0
 POU 12.59 218 iPc 16 19.20 -0.1
 QUE 13.15 280 eP 16 16.70 -9.9X
 GBA 15.66 196 P 17 03.00 4.9X
 KOD 18.91 194 eP 17 46.70 10.2X
 HFS 54.75 325 eP 22 40.20 -0.3
 NB2 56.00 326 P 22 49.00 -0.6
 EKA 64.18 321 P 23 46.00 0.9
 WB5 69.99 127 eP 24 31.10 9.0X
 S.D. = 0.8 on 6 of 10 obs.

OCT 14, 1990 16h 19m 56.66 ± 0.42s
 37.996 N ± 4.4km 20.128 E ± 2.6km
 DEPTH = 10.0km (geophysicist)
 4.3mb (13 obs.)

IONIAN SEA					(399)															
ML 4.4 (ATH), 4.4 (TTG).																				
VLS	0.41	63	eP	20 04.50	-0.5	KDZ	5.47	46	iP	21 19.00	-1.1	DSI	14.07	113	eP	23 11.50	-6.7X			
IGT	1.54	6	ePd	20 25.30	1.1	IZM	5.63	84	ePn	21 23.00	0.4	HAU	14.18	319	eS	25 40.00				
			eS	20 48.70		DUI	5.70	312	P	21 24.60	1.2		0.6s	3.60nm		4.3mb				
EVR	1.61	55	eP	20 27.00	1.7	HVAR	5.88	333	iPnc	21 23.90	-2.0	Z	20s	0.38um		5.2mszx				
ITM	1.64	119	eP	20 24.50	-1.2	SDI	6.11	309	P	21 29.80	0.6	CLL	14.23	342	e(P)	23 30.00	9.8X			
KEK	1.73	352	eP	20 28.00	1.0	KAP	6.16	111	ePn	21 29.50	-0.4	PRNI	14.47	117	eP	23 16.00	-7.5X			
SRN	1.88	357	iPn	20 29.90	0.8	AZI	6.50	310	P	21 35.50	0.8	LBF	14.90	312	eP	23 33.30	4.3X			
AGG	2.01	59	ePd	20 33.02	2.0	BEO	6.82	2	eP	21 43.50	4.3X		0.6s	2.70nm		3.9mb				
			eS	20 59.18					i	22 09.00		LOR	15.12	313	eP	23 35.40	3.6X			
LSK	2.18	10	ePn	20 30.90	-2.7	DST	6.83	74	ePn	21 39.20	-0.2		0.6s	2.70nm		3.8mb				
TPE	2.30	358	ePn	20 35.60	0.4	RMP	6.86	306	P	21 41.00	1.2	SSF	15.21	312	eP	23 38.20	5.1X			
VLI	2.58	119	eP	20 40.00	0.9	BLV	7.10	343	eP	22 04.40	21.3X		0.6s	3.15nm		3.9mb				
KZN	2.64	28	eP	20 43.00	2.9X	MNS	7.19	310	P	21 44.40	0.0	MEM	16.12	326	eP	23 51.20	6.5X			
KBN	2.68	11	ePn	20 52.70	12.2X	ASS	7.62	314	P	21 51.60	1.2	ENN	16.27	326	eP	23 56.00	9.3X			
BERA	2.71	357	iPnd	20 41.70	0.7	BZS	7.70	8	eP	21 50.00	-1.4		1.0s	19.00nm		4.2mb				
NEO	2.75	61	eP	20 41.00	-0.7	ARV	7.74	317	P	21 51.40	-0.7	DOU	16.42	322	eP	23 59.60	11.0X			
LIT	2.79	40	iPc	20 43.30	1.1	KSL	7.79	101	ePn	21 52.00	-0.7	UPP	21.94	357	iP	24 53.30	1.5			
			eS	21 18.42		ALT	7.90	79	ePn	21 59.00	4.6X	HFS	22.53	352	eP	24 57.00	-0.7			
ATH	2.84	89	eP	20 42.50	-0.3	CMP	8.14	25	ePc	22 03.00	5.3X		0.5s	9.00nm		4.5mb				
LCI	2.88	325	P	20 43.70	0.3	TNR	8.25	21	ePc	22 13.00	13.8X	Z	16s	0.13um		3.5mszx				
FNA	2.95	19	ePc	20 45.30	0.9	VBY	8.34	336	ePn	22 01.90	1.5		LR			32 57.00				
OHF	3.15	9	iPnc	20 49.00	1.7				eS	22 09.80		NUR	22.72	6	eP	25 02.00	2.5			
			iSn	21 25.00		CRE	8.37	315	P	22 01.50	0.5		0.7s	12.00nm		4.5mb				
ROI	3.20	301	P	20 49.90	2.0	ZAG	8.40	340	ePn	22 01.00	-0.3					25 13.80				
TIR	3.35	357	iPnd	20 51.80	1.7				iSn	23 32.00		NB2	23.74	349	P	25 09.00	-0.5			
ACI	3.36	295	ePn	20 53.60	3.4X	PTJ	8.49	340	ePn	21 59.10	-3.4X		0.6s	4.00nm		4.2mb				
CZI	3.36	293	P	20 52.20	2.0				iSn	23 31.90		SUF	25.03	7	eP	25 21.00	-0.9			
TDS	3.39	300	P	20 51.80	1.1	RIY	8.50	332	ePn	22 00.70	-2.0	SOD	29.65	5	eP	26 11.00	6.9X			
THE	3.43	39	iPd	20 52.38	1.2				iSn	23 32.10		BCAO	33.44	183	iPd	26 37.00	-0.8			
			eS	21 33.78		ISR	8.60	32	eP	22 10.00	5.9X		0.3s	3.00nm		4.7mb				
GRG	3.44	30	ePd	20 52.90	1.5	SFI	8.61	316	P	22 04.80	0.6	S.D. = 1.3 on 10B of 137 obs.								
			eS	21 36.02		PGD	8.66	315	P	22 06.00	1.0	OCT 14, 1990 17h 56m 47.23±0.69s								
CSI	3.48	302	P	20 54.00	2.0	MLR	8.66	28	eP	22 07.00	2.1	37.007 N ± 6.0km 29.559 E ± 8.6km								
PLG	3.50	46	eP	20 52.00	-0.3	CEY	8.83	333	ePn	22 05.40	-1.8	DEPTH = 10.0km (geophysicist)								
ORI	3.53	307	P	20 54.00	1.3	TRI	9.05	330	ePnc	22 07.40	-2.8	TURKEY (366)								
ATN	3.68	274	P	20 55.40	0.5				iSn	23 45.60		MD 3.8 (ATH), 3.6 (ISK).								
SOH	3.77	41	ePc	20 57.06	0.9				i	24 48.30		KSL	0.89	179	ePb	57 04.00	-0.2			
			eS	21 41.82		LJU	9.05	334	ePn	22 08.00	-2.3	BCK	0.94	61	ePn	57 04.90	-0.3			
OUR	3.80	51	iPc	20 57.70	1.2				eS	23 45.00		KHL	1.31	359	iPn	57 11.20	-0.4			
KNT	3.82	33	iPc	20 57.66	0.9	VOY	9.27	332	ePn	22 11.50	-1.9	ARG	1.40	236	ePb	57 12.00	-0.7			
			eS	21 43.54					eS	23 49.50		ALT	2.09	12	ePn	57 23.20	0.4			
ULC	4.02	351	ePn	20 58.80	-0.8	VRI	9.27	30	eP	22 13.00	-0.3	IZM	2.29	308	ePn	57 25.40	-0.3			
			eS	21 44.50		BDI	9.41	313	P	22 13.50	-1.8	KAP	2.41	234	ePn	57 28.50	1.1			
SDA	4.04	353	ePn	21 00.00	0.1	MME	9.43	314	P	22 17.80	2.1	DST	2.70	345	iPn	57 30.20	-1.2			
SKO	4.10	14	iPn	21 01.00	0.4	VVI	9.82	327	P	22 19.20	-1.7	IZI	3.33	359	ePn	57 42.00	1.6			
			iPg	21 13.00		SRO	9.90	353	eP	22 25.50	3.6X	S.D. = 1.0 on 9 of 9 obs.								
			iSn	21 43.00		PSZ	9.92	359	eP	22 27.20	4.9X	OCT 14, 1990 18h 28m 36.93±0.50s								
			iSb	21 52.50		FVI	10.16	330	P	22 21.30	-4.2X	17.861 S ± 9.2km 178.709 W ± 6.9km								
			iSg	21 58.00		CTI	10.22	325	P	22 23.60	-2.8	DEPTH = 588.4 ± 5.6 km								
			i	22 09.00		ZST	10.43	349	e(P)	22 32.30	3.1X	5.2mb (16 obs.)								
SRS	4.11	40	ePc	21 02.22	1.4	SAL	10.44	320	P	22 28.40	-1.0	FIJI ISLANDS REGION (181)								
			eS	21 50.94		BOB	10.49	314	P	22 31.60	1.4	MBU	2.61	289	iPc	29 53.20	-0.3			
MGR	4.15	302	P	21 02.60	1.1	MDI	10.98	318	P	22 34.80	-1.9	VUN	2.70	266	eP	29 53.00	-0.9			
VAM	4.17	127	eP	21 00.00	-1.7	BHG	11.07	334	eP	22 37.40	-0.6	SGE	3.22	274	iPc	29 57.00	0.0			
MEU	4.23	259	Pd	21 01.90	-0.7	SPC	11.19	0	e(P)	22 40.90	1.1	BKM	12.43	269	iP	31 22.20	2.2			
MNO	4.29	271	P	21 04.00	0.3				e	22 48.70		DZM	14.57	251	iPc	31 41.70	0.6			
APE	4.39	101	ePb	21 10.00	5.0X	WATA	11.25	329	iPnc	22 40.20	-0.4	BRS	27.92	245	iPc	33 43.00	-0.1			
BDV	4.40	347	ePn	21 03.50	-1.5				iSn	23 46.30		COO	29.55	239	iPd	33 58.00	0.9			
			eS	21 53.00					i	24 24.20		RMO	31.26	248	iPd	34 10.80	-0.7			
TTG	4.48	352	ePn	21 05.00	-1.0	SOTA	11.31	327	iPnc	22 41.70	0.3	CTA	33.17	260	iPd	34 27.80	0.2			
			eS	21 55.60					iSn	23 49.70			0.8s	47.01nm		5.2mb				
KKB	4.48	30	iPd	21 06.00	-0.2				i	24 30.90		CNB	33.23	232	iPc	34 29.20	1.1			
SGO	4.53	306	P	21 08.20	1.4	VAI	11.54	317	P	22 42.50	-1.9		0.7s	147.00nm		5.7mb				
MMB	4.53	37	eP	21 07.00	0.1	KHC	12.10	339	eP	22 50.20	-1.7	CAN	33.51	232	iPd	34 31.80	1.4			
PVY	4.60	359	ePn	21 07.80	-0.1				e	23 10.20		BWA	33.62	234	eP	34 30.70	-0.6			
			eS	21 59.00		WET	12.31	337	iPc	22 55.40	0.6	PMG	34.17	280	iPd	34 35.00	-1.0			
HCY	4.62	345	ePn	21 06.30	-1.8	LPG	12.48	311	eP	23 04.40	7.0X		0.9s	110.59nm		5.5mb				
			eS	21 57.00					0.6s	3.60nm		CMS	34.80	240	iPd	34 41.80	0.7			
GIB	4.82	272	P	21 11.50	0.4	LPL	12.50	311	eP	23 04.60	7.0X	STK	38.41	241	iPd	35 11.70	1.1			
IVA	4.87	358	ePn	21 11.80	0.0				0.6s	2.70nm			0.5s	57.00nm		5.4mb				
			eS	22 05.00																

14d 18h

MBL	57.71	256	iPd	37	34.00	-0.8
	0.4s	30.00nm			4.9mb	
KLB	58.59	244	iPd	37	39.50	-1.1
	0.5s	30.00nm			4.8mb	
NWAO	58.98	242	eP	37	42.00	-1.1
RKG	59.13	241	iPd	37	43.60	-0.5
	0.6s	29.00nm			4.7mb	
BAL	59.55	245	eP	37	46.00	-0.9
MUN	59.89	243	eP	37	48.70	-0.4
MRWA	60.26	246	iPd	37	50.70	-1.0
	0.6s	13.00nm			4.4mb	
NANU	61.46	254	iPd	37	59.60	0.1
	0.5s	67.00nm			5.3mb	
MAT	67.70	324	eP	38	37.00	-1.2
SPA	72.25	180	iPd	39	04.00	-0.8
	0.9s	11.36nm			4.4mb	
SYF	76.34	47	eP	39	29.00	1.0
PRS	76.39	44	eP	39	28.80	0.7
SAO	76.59	44	eP	39	29.30	0.1
PRI	76.76	45	eP	39	31.20	1.0
LLA	76.84	44	eP	39	31.00	0.5
PAS	77.40	48	eP	39	34.00	0.4
MWC	77.52	48	eP	39	34.00	-0.4
FRI	77.87	45	eP	39	36.00	0.0
RVR	77.88	48	eP	39	36.00	-0.1
PLM	77.92	49	eP	39	37.00	0.4
SBB	77.93	47	eP	39	36.00	-0.4
ISA	77.99	46	eP	39	37.00	0.2
CMB	78.00	43	eP	39	36.80	0.0
WDC	78.09	40	eP	39	37.50	0.4
ORV	78.15	42	eP	39	37.30	-0.1
CLC	78.68	47	eP	39	40.00	-0.4
TPC	78.88	49	eP	39	41.00	-0.5
GSC	78.96	47	eP	39	42.00	0.1
GLA	79.24	50	eP	39	44.00	0.7
TNP	80.13	45	iP	39	48.00	0.0
SVW	80.85	11	eP	39	49.00	-2.1
TTA	82.48	10	eP	39	59.40	0.2
PMR	82.62	14	eP	39	59.10	-0.8
	0.6s	10.10nm			4.5mb	
SNG	83.38	280	eP	40	06.20	1.6
TOA	83.76	15	eP	40	05.70	0.0
FBA	85.82	13	P	40	14.80	-0.7
LRM	87.12	40	eP	40	22.80	0.4
CHG	88.72	290	eP	40	32.00	2.0
SES	90.15	36	eP	40	36.00	0.0
INK	91.92	15	eP	40	43.00	-0.7
CLL	145.35	347	iPKP	47	10.20	0.6
S.D. = 0.8 on 62 of 63 obs.						

? OCT 14, 1990 19h 06m 49.74 \pm 2.06s
23.402 S \pm 20.8km 67.854 W \pm 18.1km
DEPTH = 150.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

ANT	2.37	262	iPc	07	29.70	0.0
			iS	07	55.20	
CNCB	6.56	359	P	08	25.60	0.1
LPB	6.84	358	P	08	30.00	0.8
ZOBO	7.10	358	P	08	32.00	-0.9
SIV	9.75	42	Pc	09	07.60	0.0
			i	10	35.20	
VAO	19.20	93	eP	11	11.00	6.4X
S.D. = 0.8 on 5 of 6 obs.						

& OCT 14, 1990 19h 09m 16.16s
60.120 N 150.416 W
DEPTH = 31.9km
KENAI PENINSULA, ALASKA (14)
<AGS-P>. ML 3.5 (PMR).

SLKM	0.40	14	iP	09	25.07	-0.2
BRK	0.43	214	iP	09	24.94	-0.7
NNL	0.45	260	iP	09	26.30	0.4
SEW	0.48	92	iP	09	25.25	-1.2
			iS	09	33.10	
CNPM	0.73	215	iP	09	28.84	-1.2
			eS	09	38.78	
NKA	0.75	327	iP	09	31.17	0.9
HOM	0.77	234	iP	09	30.10	-0.6
XLV	0.94	225	iP	09	31.79	-1.3
			eS	09	44.11	
RDT	1.09	296	iP	09	34.49	-0.8
			eS	09	49.16	
PMS	1.20	20	iP	09	36.41	-0.5
RED	1.21	285	iP	09	36.22	-0.8
RSO	1.21	287	iP	09	36.37	-0.8

SPU	1.34	324	iP	09	38.15	-0.6
			eS	09	55.90	
KNIM	1.36	79	iP	09	36.69	-2.4
SUA	1.36	353	eP	09	38.53	-0.6
MTU	1.39	94	eP	09	37.36	-2.2
CGLM	1.43	327	eP	09	39.62	-0.5
CRP	1.43	324	iP	09	39.91	-0.4
CKL	1.44	320	iP	09	39.65	-0.7
OPT	1.49	253	eP	09	40.30	-0.8
			eS	10	00.39	
BGL	1.50	321	iP	09	40.68	-0.6
NCG	1.55	327	iP	09	41.40	-0.5
			eS	10	01.66	
PWA	1.56	9	eP	09	41.47	-0.5
PLRM	1.61	23	iP	09	41.54	-1.1
PMR	1.61	23	iPd	09	41.50	-1.1
AUE	1.68	244	eP	09	43.03	-0.7
AUH	1.71	245	eP	09	43.59	-0.6
AUI	1.72	244	eP	09	43.66	-0.6
GHO	1.81	23	iP	09	44.64	-1.1
GLI	1.81	64	iP	09	42.98	-2.7
PDB	1.93	262	eP	09	46.42	-0.9
SKT	1.94	344	iP	09	46.84	-0.8
SML	1.98	30	iP	09	46.81	-1.3
CDD	2.03	235	eP	09	48.59	-0.3
VZW	2.13	62	iP	09	47.70	-2.5
MCNL	2.20	246	eP	09	50.90	-0.3
VLZ	2.25	61	eP	09	49.59	-2.3
SCM	2.29	40	eP	09	51.19	-1.3
CUT	2.29	2	eP	09	51.55	-0.9
KLU	2.60	56	iP	09	54.94	-2.0
KDC	2.61	205	e(P)	09	55.10	-1.9
SVW	2.75	293	eP	09	57.24	-1.8
TOA	2.86	44	iPd	10	00.00	-0.7
SDG	3.37	42	eP	10	06.12	-1.7
RND	3.38	12	eP	10	07.40	-0.7
GLB	3.50	65	iP	10	06.52	-3.2
TGL	3.81	77	eP	10	10.85	-3.3
TTA	3.89	319	eP	10	13.30	-1.9
BALM	4.09	74	eP	10	14.51	-3.6
DDM	4.26	28	eP	10	20.19	-0.3
YAH	4.33	83	eP	10	18.54	-3.1
WRH	4.50	13	eP	10	22.31	-1.6
HDA	4.60	19	eP	10	24.09	-1.1
CCB	4.70	14	eP	10	24.44	-2.2
FBA	4.95	13	eP	10	28.30	-1.9
GLM	5.08	15	eP	10	30.16	-2.0
IMA	6.15	347	eP	10	45.60	-1.7
57 obs. associated						

% OCT 14, 1990 19h 36m 20.71 \pm 2.33s
44.672 N \pm 16.4km 8.445 E \pm 10.2km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

PCP	0.15	151	P	36	24.17	0.0
			S	36	26.94	
FIN	0.49	200	P	36	30.53	-0.2
			S	36	36.89	
ROB	0.56	228	P	36	31.55	-0.5
			S	36	38.63	
ENR	0.86	239	P	36	37.50	0.2
			S	36	48.98	
IMI	0.86	208	P	36	37.81	0.5
STV	0.91	242	P	36	38.32	0.1
			S	36	50.11	
PZZ	0.97	261	P	36	39.24	-0.1
			S	36	51.34	
S.D. = 0.4 on 7 of 7 obs.						

& OCT 14, 1990 19h 43m 41.00s
36.130 N 115.970 W
DEPTH = 6.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
<PAS-P>. ML 3.0 (PAS).

GSC	1.07	220	iPd	44	00.50	-1.1
CLC	1.36	257	iPc	44	05.20	-1.2
TNP	2.19	333	eP	44	20.00	1.4
PEC	2.44	204	eP	44	21.00	-1.0
PLM	2.87	195	eP	44	26.90	-1.4
GLA	3.21	163	eP	44	32.00	-1.0
6 obs. associated						

* OCT 14, 1990 19h 48m 12.61 \pm 0.48s
46.121 S \pm 8.5km 33.554 E \pm 20.0km
DEPTH = 10.0km (geophysicist)

4.9mb (6 obs.)
PRINCE EDWARD ISLANDS REGION (431)

BFT	20.58	351	iPc	52	54.00	-0.5
	0.7s	27.40nm			4.7mb	
SLR	20.78	346	iPc	52	55.50	-0.9
KSR	20.90	343	iPc	52	57.00	-0.7
	1.2s	60.00nm			4.8mb	
CIR	25.10	356	iPd	53	27.70	-11.1
BUL	26.23	349	iPd	53	49.70	0.2
MAW	26.36	155	iPc	53	49.50	-0.6
SPA	44.07	180	iPd	56	21.80	-0.4
	0.9s	26.82nm			5.1mb	
BCAO	52.07	341	iPc	57	26.00	1.2
	0.5s	9.00nm			5.0mb	
SBA	53.04	169	iPc	57	32.30	1.0
KIC	62.39	316	P	58	45.00	7.2X
LKO	65.56	317	P	58	59.28	0.7
	0.6s	15.50nm			5.3mb	
ASPA	80.08	114	eP	00	23.80	-0.4
	1.1s	12.50nm			4.8mb	
QUE	81.76	29	eP	00	33.70	0.9
WB5	83.11	111	eP	00	44.50	4.5X
CNCB	85.80	250	P	00	59.00	4.8X
LPB	86.08	250	eP	00	55.00	-0.5
S.D. = 0.8 on 12 of 16 obs.						

OCT 14, 1990 19h 53m 48.93 \pm 0.73s
43.042 N \pm 11.6km 0.222 W \pm 4.5km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
ML 2.6 (LDG). Felt (II) at
Ferrieres and Lau-Balagnas,
France.

JAU	0.11	268	Pg	53	51.86	0.0
			Sg	53	53.68	
OGE	0.22	305	Pg	53	53.63	-0.1
			Sg	53	57.19	
ESCF	0.26	278	Pg	53	54.31	-0.2
			Sg	53	57.86	
LHE	0.32	246	Pg	53	55.52	-0.1
			Sg	53	59.90	
ATE	0.35	277	Pg	53	56.78	0.5
			Sg	54	00.96	
EPF	0.41	91	Pg	53	57.40	0.0
			Sg	54	03.60	
ISSF	0.42	268	Pg	53	57.47	-0.1
			Sg	54	03.54	
MADF	0.45	284	Pg	53	58.01	-0.1
			Sg	54	03.84	
LPO	1.93	31	Pg	54	25.40	3.3X
			Sg	54	50.80	
LFF	2.02	20	Pn	54	27.80	4.4X
			Sg	54	53.20	
CAF	2.50	40	Pg	54	35.20	4.8X
			Sg	55	08.00	
RJF	2.59	28	Pg	54	38.00	6.5X
			Sg	55	11.20	

PZZ	0.59	317	P	58	32.12	-0.2
			S	58	28.73	
			S	58	36.30	
CALM	0.64	241	Pg	58	29.76	0.0
PCP	0.79	53	P	58	32.92	0.7
			S	58	43.79	
FRF	0.89	236	Pg	58	34.40	0.5
			Sg	58	46.00	
LMR	1.11	229	Pg	58	38.20	0.5
			Sg	58	53.20	
RSP	1.12	345	P	58	37.14	-0.7
			S	58	50.25	
LRG	1.13	237	Pg	58	38.60	0.7
			Sg	58	53.60	
LSD	1.43	346	P	58	42.88	-0.2
LPL	1.59	336	Pn	58	46.00	0.7
			Pg	58	48.90	
			Sn	59	07.60	
PGF	1.81	147	Pn	58	46.80	-1.5
			Sn	59	08.30	
S.D. = 0.6 on 21 of 21 obs.						
% OCT 14, 1990 20h 05m 25.53±1.40s						
36.064 N ±15.6km 27.246 E ±13.1km						
DEPTH = 10.0km (geophysicist)						
DODECANESE ISLANDS (369)						
MD 3.7 (ATH).						
KAP	0.52	187	ePn	05	36.50	0.5
			eSn	05	46.50	
ARG	0.73	78	ePn	05	38.50	-1.3
			eSn	05	50.50	
NPS	1.55	239	ePb	05	52.70	-0.5
KSL	1.89	88	ePn	05	57.90	-0.3
BCK	3.02	62	ePn	06	16.00	1.6
S.D. = 1.6 on 5 of 5 obs.						
OCT 14, 1990 21h 29m 53.19±0.35s						
44.720 N ±2.7km 7.415 E ±3.9km						
DEPTH = 10.0km (geophysicist)						
NORTHERN ITALY (545)						
ML 2.0 (LDG).						
PZZ	0.31	226	P	30	00.36	0.6
			S	30	04.87	
RSP	0.45	345	P	30	02.33	0.0
			S	30	07.96	
STV	0.48	188	P	30	02.74	-0.2
			S	30	08.58	
RRL	0.49	294	P	30	03.56	0.3
			S	30	10.32	
ENR	0.49	180	P	30	02.92	-0.3
			S	30	09.17	
ROB	0.54	142	P	30	04.68	0.6
			S	30	12.17	
LSD	0.76	346	P	30	07.66	-0.6
			S	30	17.19	
FIN	0.76	132	P	30	08.27	0.1
			S	30	18.42	
PCP	0.83	102	P	30	09.50	0.3
			S	30	21.19	
SBF	0.86	179	Pg	30	09.00	-0.8
			Sg	30	19.40	
IMI	0.88	157	P	30	09.91	-0.2
			S	30	21.50	
LPG	0.91	329	Pg	30	10.80	0.0
			Sg	30	21.80	
LPL	0.93	329	Pg	30	11.10	0.0
			Sg	30	22.00	
FRF	1.28	206	Pg	30	16.80	-0.2
			Sg	30	33.00	
LRG	1.48	211	Pg	30	20.00	0.2
			Sg	30	39.50	
S.D. = 0.4 on 15 of 15 obs.						
* OCT 14, 1990 21h 45m 03.72±0.61s						
56.148 S ±12.1km 27.270 W ±13.0km						
DEPTH = 33.0km (normal)						
5.0mb (3 obs.)						
SOUTH SANDWICH ISLANDS REGION (153)						
SPA	34.03	180	iPc	51	46.60	0.1
	0.8s		9.58nm			4.8mb
SOB1	48.03	342	eP	53	41.40	-0.2
CNCB	49.87	305	P	53	56.00	-0.4
LPB	50.17	305	P	54	00.00	1.5
ZOBO	50.41	305	Pd	53	59.80	-0.7

LIC	64.80	25	P	55	41.20	0.0
KIC	65.00	25	P	55	42.40	-0.1
TIC	65.21	24	P	55	44.00	0.2
LKO	67.89	23	Pd	56	00.76	-0.1
	0.6s		10.50nm			5.1mb
BCAO	71.01	49	iPc	56	20.50	0.4
	0.5s		8.00nm			5.0mb
INK	145.85	321	ePKP	04	38.00	-0.8
FBA	150.55	312	PKP	04	50.00	3.6X
S.D. = 0.7 on 11 of 12 obs.						
* OCT 14, 1990 21h 47m 13.41±1.13s						
37.879 N ±13.1km 21.177 E ±14.6km						
DEPTH = 33.0km (normal)						
3.7mb (2 obs.)						
SOUTHERN GREECE (368)						
ML 3.5 (ATH).						
VLS	0.55	303	iPgd	47	24.50	-0.3
ITM	0.92	139	iPgd	47	30.00	0.0
EVR	1.15	25	ePb	47	38.50	5.2X
VLI	1.82	129	ePg	47	49.70	6.8X
ATH	2.01	87	ePb	47	53.00	7.3X
KEK	2.12	330	ePb	47	54.50	7.2X
NEO	2.15	48	ePn	47	52.00	4.4X
KZN	2.47	11	ePb	48	00.50	8.2X
OHK	3.24	355	ePn	48	03.00	0.6
SKO	4.09	3	ePn	48	15.00	-0.2
CSI	4.26	298	P	48	18.50	0.8
NUR	22.76	4	eP	52	16.00	2.4
HFS	22.78	350	eP	52	12.00	-1.9
	0.8s		2.60nm			3.8mb
NB2	24.02	348	P	52	24.40	-1.5
	0.9s		2.20nm			3.7mb
S.D. = 1.6 on 8 of 14 obs.						
OCT 14, 1990 21h 50m 58.25±0.62s						
36.170 N ±6.5km 27.215 E ±6.2km						
DEPTH = 10.0km (geophysicist)						
DODECANESE ISLANDS (369)						
ML 3.9 (ATH). MD 3.9 (ISK).						
KAP	0.62	183	ePg	51	10.70	0.0
			eSb	51	17.70	
ARG	0.74	86	ePg	51	12.00	-0.7
SMG	1.57	349	ePn	51	25.00	-1.1
NPS	1.59	236	ePb	51	26.00	0.3
APE	1.63	304	ePb	51	26.70	-0.3
KSL	1.92	91	ePn	51	31.00	-0.2
IZM	2.22	1	ePn	51	37.00	1.3
KHL	2.83	40	ePn	51	44.00	-0.4
BCK	3.00	64	ePn	51	48.00	1.3
ATH	3.33	304	ePg	51	59.50	8.2X
DST	3.61	18	ePn	52	02.00	6.6X
ALT	3.68	38	ePn	52	04.00	7.4X
S.D. = 0.9 on 9 of 12 obs.						
* OCT 14, 1990 22h 03m 18.64±1.31s						
36.134 N ±15.2km 27.195 E ±12.2km						
DEPTH = 10.0km (geophysicist)						
DODECANESE ISLANDS (369)						
KAP	0.58	182	eP	03	30.60	0.2
			eS	03	41.40	
ARG	0.76	83	eP	03	33.00	-0.4
			eS	03	44.00	
NPS	1.55	236	eP	03	46.20	-0.2
			eS	04	06.00	
BCK	3.03	63	ePn	04	08.00	0.4
S.D. = 0.7 on 4 of 4 obs.						
* OCT 14, 1990 22h 45m 17.55±0.61s						
31.279 S ±11.8km 68.850 W ±15.6km						
DEPTH = 109.6 ±13.1 km						
SAN JUAN PROVINCE, ARGENTINA (137)						
RTCB	0.21	168	iPd	45	33.40	-0.1
ZON	0.30	151	iPd	45	34.00	0.2
RTLL	0.33	99	iPc	45	33.70	0.0
RTCV	0.64	155	iPc	45	35.80	0.1
MDZ	1.60	180	iP	45	46.50	0.5
			iS	46	06.40	
JACH	2.04	226	iP	45	52.50	0.9
			i	46	08.50	
PEL	2.42	219	iPd	45	57.00	0.4
			i	46	26.00	
ROCH	2.49	227	iPc	45	57.50	-0.2

PCH	2.73	211	iPc	46	28.50	
			i	46	01.20	0.5
			i	46	34.50	
			i	47	06.50	
LNv	3.43	218	iPc	46	07.90	-2.2
			i	46	25.00	
			iS	46	40.00	
CYA	3.88	44	iPc	46	15.00	-1.2
CNCB	14.43	3	eP	48	37.00	-1.3
LPB	14.70	3	eP	48	42.00	0.4
ZOBO	14.96	3	P	48	46.00	1.0
SIV	16.79	27	Pc	49	08.40	0.9
S.D. = 1.0 on 15 of 15 obs.						
? OCT 14, 1990 22h 50m 05.68±0.97s						
33.838 N ±10.8km 6.336 W ±9.4km						
DEPTH = 10.0km (geophysicist)						
MOROCCO (395)						
AVE	1.05	239	iPgc	50	25.80	0.3
			i	50	38.00	
			iSg	50	41.00	
IFR	1.06	107	iPg	50	26.00	0.3
			i	50	27.50	
			iSg	50	40.00	
NKM	1.78	25	ePn	50	36.50	-0.1
			i	50	40.50	
			eSn	50	54.50	
			i	51	06.00	
			i	51	07.50	
TIO	3.01	195	iPnd	50	53.90	-0.5
			iSn	51	27.50	
S.D. = 0.6 on 4 of 4 obs.						
* OCT 15, 1990 00h 16m 17.62±2.51s						
38.626 N ±21.5km 13.296 E ±9.4km						
DEPTH = 10.0km (geophysicist)						
SICILY (398)						
ERC	0.81	224	P	16	33.20	-0.2
			eSg	16	45.00	
GIB	0.86	138	P	16	34.40	0.2
			eSg	16	44.00	
MCT	1.03	165	P	16	37.60	0.4
MNO	1.30	122	P	16	41.00	-0.9
ATN	1.76	105	P	16	49.00	0.6
MEU	2.00	139	P	16	51.70	-0.2
S.D. = 0.7 on 6 of 6 obs.						
? OCT 15, 1990 01h 10m 32.67±5.31s						
17.581 N ±33.4km 61.147 W ±27.7km						
DEPTH = 10.0km (geophysicist)						
LEEWARD ISLANDS (92)						
ML 3.2 (FDF).						
BPA	0.86	232	ePd	10	49.56	0.3
			S	11	00.70	
SEG	1.22	196	ePd	10	55.03	-0.3
			S	11	12.10	
SFG	1.32	182	eP	10	57.30	0.3
NEV	1.43	252	ePd	10	58.58	-0.1
			S	11	19.00	
PAG	1.62	198	eP	11	01.10	-0.4
BBL	2.07	189	eP	11	08.21	0.3
S.D. = 0.4 on 6 of 6 obs.						
OCT 15, 1990 01h 35m 44.56±0.11s						
2.211 S ±3.1km 92.249 E ±2.5km						
DEPTH = 32.2km (20 depth phases)						
5.9mb (102 obs.) 6.5Msz (47 obs.)						
SOUTHWEST OF SUMATERA (273)						
Ms 6.4 (PAS). Mo=4.0×10 ⁻¹⁸ Nm						
(PPT). Complex event observed on broadband displacement seismograms.						
FAULT PLANE SOLUTION: P-Waves						
NP1:Strike=105 Dip=90 Slip=-170						
NP2: 15 80 -360						
Principal Axes:						
T P1=7 Azm=240						
P 7 330						
Comment: The focal mechanism is well controlled and corresponds to strike-slip faulting with a small strike-slip component. The preferred fault plane is not determined.						

15d 01h

RADIATED ENERGY

No. of sta: 9 Focal mech. F
Energy 1.3±0.4*10**15 Nm

MOMENT TENSOR SOLUTION

Dep 26 No. of sta: 14
Moment Tensor: Scale 10**19 Nm
Mrr= 0.13 Mtt=-0.54
Mff= 0.41 Mrt=-0.34
Mrf= 0.30 Mtf=-1.43

Principal axes:

T Vol= 1.58 Plg=17 Azm=234
N 0.00 73 66
P -1.58 3 325

Best Double Couple: Mo=1.6*10**19
NP1: Strike= 10 Dip=76 Slip= 10
NP2: 278 81 165

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
L.P.B.: 20S, 49C M.W.: 12S, 31C

Centroid Location:
Origin Time 01:35:49.9 0.2

Lat 2.20S 0.01 Lon 92.29E 0.01
Dep 23.0 1.3 Half-duration 7.0

Moment Tensor: Scale 10**18 Nm
Mrr= 0.61 0.13 Mtt=-8.46 0.12
Mff= 7.85 0.14 Mrt=-4.63 0.42
Mrf= 0.67 0.34 Mtf=-9.72 0.12

Principal Axes:
T Vol= 12.94 Plg=12 Azm=243
N 1.11 70 116
P -14.06 15 336

Best Double Couple: Mo=1.4*10**19
NP1: Strike= 19 Dip=70 Slip= -2
NP2: 110 88 -160

IPM 11.06 52 ePc 38 23.20 -0.5
e 39 15.20
e 40 21.20
KGM 11.84 69 iPc 38 33.50 -0.7
0.9s 4464.90nm 7.6mb X
i 38 43.90
i 39 02.10
SNG 12.52 42 iPc 38 40.60 -2.7
1.0s 1600.00nm 7.1mb X
eS 41 20.00
NNT 16.48 27 iPc 39 37.70 2.7
KOD 19.22 310 iPd 40 09.00 -0.3
iS 43 28.00
NST 19.40 23 iPd 40 11.00 -0.1
BDT 20.45 19 iPd 40 22.70 0.5
1.2s 842.70nm 6.0mb
TRT 21.02 106 ePc 40 28.40 0.3
0.6s 87.50nm 5.3mb
GBA 21.51 317 P 40 33.00 0.0
S 44 23.00
LOE 21.62 25 eP 40 33.00 -1.1
CHC 21.91 17 iPd 40 36.90 -0.1
eS 44 30.00
HYB 23.72 326 iPd 40 55.50 0.7
1.2s 1515.20nm 6.4mb
iS 45 08.00
KKM 25.30 71 ePc 41 10.90 0.8
0.9s 309.90nm 5.9mb
QIZ 27.29 39 P 41 29.20 0.9
8.0s *****nm 6.9mb X
N 13s 71.80um
E 14s 115.00um
iS 46 11.00
MKS 27.32 97 iPc 41 29.50 0.8
POO 27.44 319 iPd 41 29.30 -0.4
1.0s 90.00nm 5.4mb
iS 46 06.00
BOM 28.38 318 iPd 41 38.00 -0.1
iS 46 28.00
KMI 29.01 20 iPd 41 45.89 1.8
2.5s 960.00nm 6.1mb
N 17s 74.20um
E 17s 68.30um
pP 41 56.50 39km
GYA 31.72 25 iPd 42 08.00 0.0
N 14s 92.80um
E 14s 101.00um
S 47 15.00
LSA 31.75 358 iPd 42 09.60 1.0
N 18s 39.10um
E 20s 93.00um
sP 42 22.00

S 47 20.00
SS 49 05.00
KUPT 32.13 106 ePc 42 01.00 -10.5X
0.7s 946.70nm
HKC 32.43 40 iPc 42 16.00 1.9
iS 47 30.00
GZH 32.48 38 P 42 14.00 -0.5
8.0s *****nm 7.0mb X
Z 20s 155.00um 6.7MsZ
N 17s 162.00um
E 17s 120.00um
MNI 32.79 84 ePc 42 17.90 0.6
MBL 32.81 127 eP 42 17.30 -0.1
0.8s 127.00nm 5.9mb
NDI 33.94 336 iPd 42 27.60 0.5
0.5s 387.32nm 6.6mb
iSn 47 48.00
CD2 34.71 18 P 42 33.00 -0.8
0.8s 150.00nm 6.0mb
N 16s 94.50um
E 15s 104.00um
PP 43 53.00
S 47 57.00
MEKA 35.00 136 eP 42 36.30 0.0
MRWA 35.10 142 eP 42 37.00 -0.1
0.6s 32.00nm 5.4mb
AAI 35.93 93 eP 42 50.00 5.7X
BAL 36.52 143 eP 42 49.00 -0.1
QZH 37.17 42 Pd 42 56.50 2.0
8.0s *****nm 7.0mb X
Z 16s 125.00um 6.8MsZ
N 14s 57.90um
E 14s 68.60um
PP 44 20.00
MUN 37.23 145 eP 42 54.80 -0.2
0.8s 181.00nm 6.0mb
Z 20s 63.20um 6.4MsZ
eS 48 40.00
KLB 37.85 143 eP 42 59.70 -0.6
0.5s 36.00nm 5.5mb
KNA 38.40 113 iPd 43 04.00 -1.1
0.9s 54.00nm 5.4mb
NWA0 38.51 145 ePd 43 04.96 -0.8
0.6s 51.00nm 5.5mb
e 43 14.23 31km
iPP 44 29.63
WHN 38.80 31 Pd 43 09.50 1.3
1.7s 400.00nm 5.9mb
Z 18s 70.40um 6.5MsZ
N 19s 173.00um
E 20s 170.00um
pP 43 18.00 29km
iPP 44 46.00
iPcS 49 04.00
iS 49 10.00
RKG 39.23 147 eP 43 14.80 3.0X
0.6s 240.00nm 6.1mb
ANP 39.33 44 iPc 43 14.00 1.2
iS 49 11.00
XAN 39.33 22 iPd 43 12.20 -0.4
1.0s 160.00nm 5.7mb
N 20s 165.00um
E 20s 177.00um
S 49 08.00
SS 51 58.50
LZH 39.61 15 iPd 43 14.50 -0.6
2.0s 620.00nm 6.0mb
Z 20s 131.00um 6.8MsZ
E 18s 119.00um
iPP 44 49.23
ScS 53 20.00
MTN 39.90 107 eP 43 16.50 -1.1
QUE 40.27 325 iPd 43 22.70 2.1
1.0s 2905.00nm 7.0mb X
ePP 43 38.40
ePP 44 59.50
e(S) 49 45.40
WARB 40.73 129 eP 43 25.00 0.7
42.00 9 iPd 43 34.20 -0.4
2.2s 1810.00nm 6.4mb
Z 28s 76.40um 6.4MsZ
E 14s 27.60um
PP 45 16.00
S 49 49.00
SS 52 48.00
NJ2 42.40 34 iPd 43 38.00 0.2
1.2s 200.00nm 5.7mb

Z 16s 34.80um 6.3MsZ
N 19s 120.00um
E 19s 93.00um
iS 49 57.00
SSE 43.07 37 P 43 44.00 0.7
Z 20s 56.10um 6.5MsZ
N 16s 95.60um
E 16s 47.60um
pP 43 53.70 32km
sP 43 58.80
PP 45 28.00
S 50 10.00
sS 50 26.00
SS 53 18.00
ScS 53 39.00
TIY 43.91 23 Pd 43 49.80 -0.3
Z 20s 93.90um 6.7MsZ
E 19s 171.00um
PP 45 35.00
ScS 53 40.00
KSH 44.08 342 iPc 43 50.00 -1.6
Z 24s 91.50um 6.6MsZ
N 17s 53.70um
PP 45 37.00
S 50 22.00
FORR 44.26 134 eP 43 51.50 -1.5
TIA 44.71 29 Pd 43 55.80 -0.8
9.0s 9000.00nm 6.6mb X
Z 20s 78.30um 6.6MsZ
N 19s 63.20um
E 19s 129.00um
S 50 33.00
WRA 44.72 116 P 43 56.50 -0.4
WB5 44.72 116 eP 43 56.20 -0.7
e 44 07.00 37km
ASPA 45.58 121 iPd 44 03.10 -0.7
1.3s 87.10nm 5.5mb
Z 19s 73.40um 6.6MsZ
i 44 13.80 37km
iS 50 42.20
iScS 52 03.60
iS 54 01.60
BTO 45.59 19 iPc 44 03.50 -0.2
7.0s 4500.00nm 6.5mb X
N 15s 90.30um
E 15s 74.00um
sP 44 16.00
PP 45 50.00
iS 50 43.00
sS 50 56.00
SS 53 57.00
DSH 45.99 334 eP 44 06.30 -0.4
eS 51 00.00
WMO 46.01 355 iPd 44 06.95 0.1
iPP 45 55.28
HHC 46.34 20 iPd 44 10.00 0.5
1.5s 1370.00nm 6.7mb
Z 20s 133.00um 6.9MsZ
N 18s 39.10um
E 18s 156.00um
PP 46 00.00
S 50 56.50
TLG 47.21 345 iP 44 16.00 -0.3
iS 51 08.00
BJI 47.41 25 ePd 44 18.12 0.2
Z 35s 41.30um 6.2MsZ
E 20s 59.80um
e 44 25.41 24km
PP 45 57.00
SS 54 06.00
FRU 47.58 342 iPd 44 19.00 -0.2
iS 51 18.00
JAY 48.41 91 ePd 44 24.20 -2.0
1.2s 105.70nm 5.7mb
MAIO 48.98 325 iPd 44 29.60 -0.7
1.2s 76.39nm 5.6mb
eS 51 28.00
DL2 49.05 30 iPd 44 31.00 0.4
1.4s 200.00nm 6.0mb
Z 20s 53.70um 6.5MsZ
N 17s 86.40um
E 15s 37.30um
S 51 33.00
BBU 49.28 308 eP 44 30.60 -1.9
1.0s 250.00nm 6.2mb
DHR 49.57 308 ePd 44 34.50 -0.3
eS 51 41.00

OIS	49.63	115	iPc	44	34.80	-0.6	RAB	59.85	94	eP	45	48.00	-2.0	DRV	72.38	162	eP	47	09.20	0.1	
			i	44	44.90	34km				iS	54	08.00		NPS	72.41	308	eP	47	08.80	-1.1	
			i	47	24.40		BWA	61.22	128	eP	46	01.00	2.0	APF	72.97	310	eP	47	09.80	-3.4X	
PAF	50.60	199	iPc	44	50.00	7.7X	CIR	61.90	247	iPc	45	51.00	-12.8X	OBN	72.98	330	iPd	47	11.90	-0.9	
			ePP	46	42.00		CAN	61.96	129	eP	46	04.30	0.3		1.1s	220.00nm			6.1mb		
			eS	52	04.00		AYN	62.06	304	ePd	46	04.30	-0.4	Z	20s	31.00um			6.6Msz		
			eSSS	56	50.00		CNB	62.24	129	eP	46	06.00	0.1			iS	56	11.00			
ARO	50.97	287	eP	44	46.10	0.3				i	46	16.00	5.7mb	PRK	73.04	312	eP	47	13.00	-0.4	
MNDI	51.40	96	eP	44	50.50	1.2				ePP	48	36.00	33km	PSN	73.10	317	iPc	47	13.00	-0.7	
RYD	51.72	304	ePd	44	50.00	-1.4				eS	54	32.00		EZN	73.17	313	eP	47	12.00	-2.2	
			iS	52	04.00					eLg	01	32.00		PDF	73.51	240	iPc	47	17.00	0.6	
KMSA	51.90	298	ePd	44	50.70	-2.0				eLR	05	28.00			1.3s	144.23nm			5.8mb		
SNY	52.23	29	Pd	44	53.60	-1.2	CSTJ	62.31	307	Pd	46	24.34	17.9X	TLB	73.51	318	eP	47	15.00	-1.1	
	1.4s	500.00nm			6.3mb		BADA	62.77	304	ePd	46	09.20	-0.2	VAM	73.56	308	eP	47	14.80	-1.8	
Z	18s	94.80um			6.9Msz		MDSJ	62.83	307	P	46	27.91	18.0X	CFR	73.64	318	ePd	47	16.00	-0.8	
N	17s	77.10um					QTRJ	62.90	307	Pc	46	27.04	16.7X	JMB	73.81	315	iPc	47	18.00	0.2	
E	15s	25.30um					COO	62.94	123	eP	46	11.60	1.0	BCAO	73.95	275	iPc	47	17.65	-1.6	
			pP	45	05.00	40km	HLBJ	62.95	308	P	46	28.35	17.7X		0.9s	370.00nm			6.4mb		
			PcS	50	00.00		BRS	62.95	120	iPd	46	10.80	0.1			ic	47	32.00	50kmX		
			iS	52	16.00					ipP	46	17.80	23km			ic	48	09.00			
SRAT	52.35	295	ePd	44	57.00	0.6				i	46	21.30				ic	49	21.00			
KMTA	52.66	295	ePd	44	59.00	0.3	HQL	62.98	304	ePd	46	10.00	-0.8	RDO	74.14	314	eP	47	19.40	-0.4	
SHK	52.67	42	eP	44	57.00	-1.3	SAP	63.02	38	eP	46	19.00	8.2X	KDZ	74.38	314	iP	47	20.00	-1.2	
TEH	53.66	319	ePc	45	06.00	0.3	AKSR	63.03	298	iPd	46	11.50	0.3	DIM	74.42	315	iP	47	21.00	-0.4	
ADE	54.04	133	eP	45	08.90	0.5	AGAL	63.14	298	iPd	46	12.50	0.6	DZM	74.53	112	iPd	47	22.80	0.3	
	1.2s	437.50nm			6.4mb		AMAN	63.18	298	eP	46	12.80	0.6	ATH	74.60	310	eP	47	23.20	0.7	
AFIF	54.36	302	ePd	45	11.00	0.0	KRI	63.20	252	iPc	46	13.90	1.3	CLJ	74.69	320	eP	47	24.00	1.1	
AAE	54.45	283	eP	45	12.50	0.5	MOO	63.21	137	P	46	07.00	-5.1X	ISR	74.70	318	eP	47	23.50	0.4	
GUMO	54.48	72	ePc	45	09.16	-2.7	MBH	63.28	305	iPd	46	11.20	-1.6	IAS	74.73	320	eP	47	24.00	0.9	
	1.3s	163.40nm			5.9mb		MKRJ	63.28	307	Pc	46	29.42	16.5X	BUJ	74.76	317	ePd	47	20.50	-2.8	
PJG	54.48	72	eP	45	07.00	-4.8X	MASJ	63.29	307	P	46	30.31	17.4X	VRI	74.82	319	ePd	47	23.00	-0.7	
GUA	54.51	72	eP	45	07.00	-5.1X	JARJ	63.29	308	Pd	46	30.07	17.2X	VLI	74.88	309	eP	47	24.70	0.5	
	0.7s	54.79nm			5.7mb		AKRL	63.31	298	iPd	46	13.50	0.5	RZN	74.89	314	iPd	47	24.00	-0.4	
Z	18s	15.35um			6.1Msz		LWI	63.40	269	iP+	46	14.00	-0.1	PVL	74.91	316	iPd	47	24.00	-0.2	
			eS	52	48.00					i(S)	54	43.00		CVO	75.17	319	eP	47	25.00	-0.7	
CN2	54.62	29	iPd	45	11.40	-1.0	BURJ	63.40	308	Pc	46	31.22	17.5X	MLR	75.21	318	iPd	47	25.50	-0.6	
	1.0s	200.00nm			6.1mb		SALJ	63.41	308	P	46	31.29	17.6X	PTT	75.40	320	eP	47	27.50	0.5	
Z	15s	61.00um			6.8MszX		ANMR	63.46	298	iPd	46	14.50	0.5	WIN	75.44	247	iPc+	47	27.00	-0.9	
N	15s	51.00um					SHMJ	63.61	308	Pd	46	32.73	17.8X		0.7s	68.49nm			5.8mb		
E	15s	17.00um					MML	63.78	308	iPd	46	14.80	-1.3	Z	20s	69.50um			7.0Msz		
			pP	45	17.00	18kmX	BFT	64.09	243	iPc	46	17.00	-1.5	PLG	75.45	313	eP	47	26.30	-1.1	
QASM	54.82	304	ePd	45	12.70	-1.6	ADI	64.16	309	eP	46	17.50	-1.1	PGB	75.53	315	iPc	47	27.00	-0.9	
STK	54.97	128	iPc	45	14.60	-0.6	BUL	64.53	249	iPc	46	19.90	-1.4	MMB	75.57	314	eP	47	27.00	-1.1	
	1.6s	121.00nm			5.7mb		SLR	65.66	243	iPc	46	25.84	-2.7	MTUR	75.72	318	eP	47	28.00	-0.9	
Z	20s	2431.00um			8.3MszX		YSS	65.97	35	iPc	46	31.00	1.2	CMP	75.75	318	ePc	47	30.00	1.0	
			iS	53	01.00		HLW	66.23	304	eP	46	31.10	-0.8	ITM	75.78	309	eP	47	28.40	-1.0	
PMG	55.03	100	iPd	45	15.30	-0.6				ePP	48	54.00		PVC	76.06	108	iPc	47	45.80	14.6X	
	1.1s	215.19nm			6.1mb					ePPP	50	12.00		DRA	76.10	317	eP	47	29.00	-2.0	
IRK	55.23	9	iPd	45	16.00	-0.8	CSS	66.31	310	eP	46	32.00	-0.3	KKB	76.11	314	iPc	47	30.00	-1.2	
			eS	52	56.00		KVT	66.73	317	eP	46	34.10	-0.8	VTS	76.22	315	iP	47	30.00	-1.9	
QLP	55.38	121	eP	45	18.90	0.6	KSR	66.92	243	iPc	46	33.50	-3.1X	EVR	76.29	311	eP	47	32.50	0.2	
			e	45	28.60	32km				eS	55	17.00		TNR	76.38	318	ePd	47	48.00	15.4X	
CTA	55.59	113	iPc	45	19.30	-0.6								KZN	76.66	312	eP	47	33.30	-1.1	
	1.1s	151.90nm			5.9mb								VLS	77.04	310	eP	47	35.50	-0.9		
			i	45	28.70	31km							SKO	77.33	314	iP	47	35.10	-2.8		
			iS	53	04.00		PPCY	67.04	309	eP	46	36.00	-1.0		1.8s	115.00nm			5.6mb		
CTAO	55.59	113	ePd	45	21.14	1.2	NHR	67.64	99	eP	46	41.00	-0.1	Z	17s	22.00um			6.5MszX		
			e	45	29.42	27km	MAW	68.34	192	iPc+	46	44.40	-0.1	N	18s	14.58um					
KER	55.83	315	ePd	45	20.50	-1.1								E	19s	17.58um					
CRZF	56.35	213	iPc	45	24.50	-0.4										iPcP	47	53.60			
			ePP	47	40.00											iPP	50	36.00			
			ePPP	50	40.00											iPPP	52	29.00			
			eS	53	20.00		KAS	68.41	316	eP	46	45.00	-0.6			iPSP	53	51.00			
			eSS	57	10.00		ANTO	68.51	315	ePd	46	45.02	-1.2			iS	57	11.00			
			eSSS	59	50.00		BBTK	68.52	315	iPd	46	45.00	-1.3			iPS	58	05.00			
HIA	56.52	21	iPd	45	25.46	-0.6	FRS	68.93	239	eP	46	43.00	-5.9X			i	58	40.00			
			ePPP	48	51.45											iSS	02	17.00			
MDJ	57.28	31	Pd	45	31.00	-0.5	BCK	69.25	312	iP	46	50.00	-0.8			i	02	40.00			
	1.5s	400.00nm			6.2mb		KSL	69.57	310	eP	46	54.00	1.3			iSSS	06	11.00			
Z	20s	46.60um			6.6Msz		SIM	69.66	320	eP	46	52.00	-1.0	TIK	77.41	11	iPd	47	35.50	-2.3	
N	18s	53.20um														eS	57	21.00			
E	19s	98.60um																			
			iS	53	30.00		YAK	70.10	18	iPd	46	53.00	-2.4	BMR	77.50	320	ePc	47	40.00	1.3	
			SS	57	14.00		ALT	70.15	313	iP	46	54.70	-1.6	OHR	77.58	313	iP	47	38.00	-1.4	
MAJO	57.54	43	ePd	45	33.06	-0.5	KHL	70.34	312	eP	46	56.00	-1.4		1.2s	73.00nm			5.6mb		
			ePP	47	48.79		GPA	70.43	314	eP	46	56.70	-1.2	PET	77.81	35	iPd	47	39.00	-1.2	
MAT	57.54	43	eP	45	33.00	-0.5	ARG	70.72	310	iPd	46	59.80	0.1			iS	57	28.00			
	2.2s	369.23nm			6.0mb		IZI	71.05	314	iP	47	00.60	-1.2	KEK	77.99	311	eP	47	41.20	-0.4	
			eS	53	14.00		YLV	71.20	314	iP	47	01.60	-1.1	BZS	78.15	317	eP	47	39.00	-3.3X	
BFD	57.80	133	eP	45	41.00	5.7X	KAP	71.26													

PNJ	139.57	344	PKP	55	08.60	-2.4
			PP	58	05.10	
			PKS	58	24.30	
PNJ	139.57	344	ePKP	55	12.60	1.6
GMTN	139.60	344	iPKP	55	12.60	1.5
GLA	140.18	37	ePKP	55	14.00	1.5
MDZ	140.79	206	ePKP	55	09.40	-4.2X
LVN	140.87	202	ePKP	55	12.50	-1.1
PEL	141.32	203	ePKP	55	09.00	-5.6X
RTLL	141.94	207	ePKPc	55	09.20	-6.5X
RTCB	141.95	207	ePKP	55	10.00	-5.8X
CBN	142.94	346	ePKP	55	15.00	-2.1
			e	58	25.00	
			e	58	46.00	
ANMO	143.07	26	PKP	55	14.30	-3.4
Z	22s	13.33um				6.7Msz
FVM	144.31	4	PKP	55	16.40	-3.1X
BLA	144.52	350	ePKP	55	17.80	-2.1
	2.0s	264.71nm				
Z	20s	17.02um				6.8Msz
ELC	145.07	2	PKP	55	19.00	-1.8
BIX	145.57	12	iPKP	55	25.50	3.8X
TUL	145.65	12	iPKP-	55	22.00	0.2
	1.2s	200.00nm				
Z	19s	33.24um				7.1Msz
		LR		48	00.00	
SIO	145.70	12	iPKP	55	22.50	0.6
			e	55	31.10	
MEO	146.06	16	iPKPd	55	22.20	-0.4
RSCP	146.72	357	PKP	55	22.70	-0.9
Z	20s	19.21um				6.9Msz
LHS	147.25	349	PKP	55	25.20	0.8
PRM	147.89	352	PKP	55	26.20	0.7
SIV	148.02	235	PKPc	55	26.40	0.2
ANT	149.21	212	e(PKP)	55	20.00	-7.9X
BPA	150.59	302	ePKP	55	34.00	3.9X
BBL	150.92	299	ePKP	55	36.00	5.4X
FDF	150.95	297	ePKP	55	37.00	6.3X
	0.8s	1.50nm				
CCH	151.14	227	PKP	55	34.20	2.9X
		i		55	40.00	
NEV	151.15	303	ePKP	55	33.00	2.1
SLB	151.19	295	ePKP	55	37.17	6.1X
SKI	151.20	303	ePKP	55	36.99	6.0X
SVV	151.53	294	ePKP	55	38.52	6.9X
SVB	151.58	294	ePKP	55	37.52	5.9X
CNCB	152.83	225	PKP	55	35.80	1.7
LPB	153.10	225	PKP	55	35.00	0.7
		LR		46	34.00	
ZOBO	153.29	226	PKPc	55	35.00	0.2
	1.0s	77.50nm				
PORP	153.98	309	ePKP	55	35.00	0.0
ARE	155.46	200	ePKP	55	36.00	-1.3
LLAV	157.64	292	ePKP	55	41.00	1.0
GUAC	158.17	292	ePKP	55	41.00	0.3
CEOS	159.53	290	ePKP	55	42.00	-0.1
BMG	164.60	289	iPKPc	55	48.00	0.8
FUO	165.65	283	ePKP	55	50.00	1.6
BOG	166.13	280	ePKP	55	50.00	1.2
UPA	169.41	310	ePKPd	55	51.00	1.3
Z	22s	23.33um				
PSO	169.53	265	ePKP	55	54.00	2.8
S.D. = 1.0 on 432 of 496 obs.						
* OCT 15, 1990 03h 37m 27.73±0.98s						
38.496 N ± 7.1km 23.779 E ±14.5km						
DEPTH = 5.0km (geophysicist)						
GREECE (364)						

15d 03h

AUTN	0.14	113	Pg	40 57.43	-0.5
			Sg	41 00.51	
MVIF	0.17	204	Pg	40 57.84	-0.5
			Sg	41 01.16	
AURF	0.17	161	Pg	40 58.10	-0.3
			Sg	41 01.74	
STV	0.20	16	P	40 58.15	-0.7
			S	41 00.92	
ENR	0.21	35	P	40 58.69	-0.5
			S	41 02.23	
SBF	0.23	144	Pg	40 59.60	0.1
			Sg	41 03.40	
PZZ	0.47	347	P	41 03.48	-0.4
			S	41 09.24	
IMI	0.48	107	P	41 05.33	1.0
			S	41 11.89	
ROB	0.51	61	P	41 04.51	-0.3
			S	41 10.65	
FRF	0.66	222	Pg	41 07.20	-0.3
			Sg	41 15.60	
FIN	0.71	77	P	41 08.30	-0.1
			S	41 17.56	
LRG	0.88	227	Pg	41 12.20	0.9
			Sg	41 23.20	
LMR	0.90	217	Pg	41 12.30	0.7
			Sg	41 24.00	
PCP	1.05	62	P	41 15.17	0.8
LSD	1.41	357	P	41 21.09	0.8
LPL	1.51	346	Pg	41 22.10	0.4

S.D. = 0.7 on 17 of 17 obs.

? OCT 15, 1990 03h 48m 28.33±1.33s
42.847 N ± 8.4km 13.356 E ± 14.0km
DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)

ASS	0.56	294	P	48 39.50	-0.2
			eSg	48 48.80	
MNS	0.68	227	P	48 42.00	0.1
			eSg	48 51.20	
ARV	0.72	335	P	48 42.60	0.1
			eSg	48 54.40	
SDI	1.19	163	P	48 50.50	-0.1

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

& OCT 15, 1990 04h 40m 59.04s
58.306 N 143.015 W
DEPTH = 10.0km (geophysicist)

GULF OF ALASKA (15)

<AGS-P>

MID	2.06	305	eP	41 28.21	-5.9
YKU	2.11	52	eP	41 30.61	-4.2
YAH	2.16	17	iP	41 30.06	-5.8
			eS	41 53.16	
PNL	2.32	52	eP	41 32.82	-5.1
BCPM	2.40	45	eP	41 34.04	-5.0
HON	2.44	60	iP	41 34.22	-5.3
			eS	42 02.41	
TGL	2.46	2	eP	41 35.08	-4.8
			eS	42 03.63	
BALM	2.76	7	iP	41 39.42	-4.8
			eS	42 10.85	
KNIM	3.17	312	eP	41 43.23	-6.7
			eS	42 18.78	
GLB	3.17	353	eP	41 44.60	-5.4
VZV	3.29	328	eP	41 45.66	-6.1
VLZ	3.29	331	eP	41 45.35	-6.3
GLI	3.31	323	iP	41 45.52	-6.4
KLU	3.52	337	eP	41 49.08	-5.8
SEW	3.77	301	eP	41 51.15	-7.2
TOA	4.12	339	eP	41 58.35	-5.1
KNK	4.15	321	eP	41 57.46	-6.4
SLKM	4.29	304	eP	41 59.16	-6.7
SML	4.41	325	eP	42 01.30	-6.2
PMS	4.43	314	eP	42 01.44	-6.4
CNPM	4.43	289	eP	42 01.50	-6.4
PLRM	4.51	320	eP	42 02.97	-5.9
GHO	4.57	322	eP	42 04.10	-5.7
RDT	5.30	299	eP	42 13.66	-6.6
CUT	5.46	322	eP	42 16.09	-6.3

25 obs. associated

OCT 15, 1990 06h 30m 20.39±0.17s
15.311 N ± 3.9km 46.350 W ± 2.3km
DEPTH = 10.0km (geophysicist)

5.2mb (60 obs.) 4.9Msz (11 obs.)

NORTH ATLANTIC RIDGE (403)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 32C
Centroid Location:
Origin Time 06:30:28.8 0.7
Lat 15.42N 0.07 Lon 46.21W 0.06
Dep 15.0 FIX Half-duration 1.9
Moment Tensor: Scale 10**17 Nm
Mrr=-0.22 0.08 Mtt=-0.33 0.12
Mff= 0.56 0.12 Mrt= 0.00 0.00
Mrf= 0.00 0.00 Mtf=-1.46 0.08
Principal Axes:
T Val= 1.64 P1g= 0 Azm=233
N -0.22 90 180
P -1.42 0 143
Best Double Couple: Mo=1.5*10**17
NP1: Strike=278 Dip=90 Slip=-180
NP2: 8 90 0

SLB	14.30	266	eP	33 42.38	-2.7
SOA	14.47	264	eP	33 46.31	-1.0
SVV	14.54	264	eP	33 46.94	-1.3
BOT	14.58	255	eP	33 46.92	-1.8
SVB	14.58	264	eP	33 46.64	-2.2
TPR	14.63	255	eP	33 47.55	-1.8
PIG	14.70	255	eP	33 49.55	-0.7
BPA	15.00	279	eP	33 50.00	-4.2X

			e	36 13.00	
			eTT	48 10.00	

TBH	15.12	253	eP	33 55.70	-0.2
GRW	15.20	260	eP	33 55.29	-1.6
TRN	15.38	254	eP	33 58.03	-1.2
TPP	15.54	253	eP	33 59.64	-1.6
NEV	15.68	279	eP	34 04.00	0.8
SKI	15.86	280	eP	34 00.61	-4.8X
CUM	18.02	257	iP	34 35.00	2.3
PORP	19.62	281	eP	34 51.00	-1.2
LLAV	20.51	259	iPc	35 01.00	-0.6
OLLA	20.63	258	iPd	35 02.00	-0.9
GUAC	21.02	258	eP	35 07.00	0.0
CEOS	22.37	256	iPc	35 20.00	-0.4
TOV	23.52	259	eP	35 32.00	0.3
SOB1	24.95	167	eP	35 47.60	2.1

BAO	30.79	183	eP	36 42.00	3.3X
SIV	34.33	206	iPc	37 10.20	0.7

			i	38 13.80	
TBR	35.29	322	P	37 18.00	0.5
TXNY	35.29	322	iP	37 18.40	0.9
CBN	35.60	316	eP	37 20.00	-0.2
NAZ	35.81	315	P	37 22.00	0.1
CBM	36.37	335	P	37 28.20	1.7
LHS	36.37	308	P	37 26.80	0.1
JFO	36.93	175	eP	37 33.50	2.0

			e	37 40.80	
BLA	37.23	312	eP	37 33.30	-0.7

			1.0s	160.00nm	5.7mb
			Z	20s	1.65um
PRM	37.42	307	P	37 36.30	0.7
PPD	37.43	188	eP	37 37.00	1.3

			e	37 43.90	
			e	38 17.20	
RSNY	37.66	326	P	37 37.80	0.4

			1.0s	25.31nm	4.9mb
ZOBO	38.04	215	Pc	37 41.80	0.3

			1.0s	70.00nm	5.4mb
			Z	22s	4.98um
			S	43 36.00	
			LR	48 34.00	

VAO	38.08	181	eP	37 39.20	-2.0
LPB	38.24	215	P	37 45.00	2.0

			Z	24s	3.88um
			LR	48 34.00	
CNCB	38.40	215	P	37 46.00	1.5
TIO	38.94	60	iP	37 50.00	1.5

TKL	39.07	308	P	37 50.40	1.0
CLE	40.03	318	iP	37 58.50	1.2
ARE	40.16	219	eP	37 55.00	-3.9X
LKO	40.17	93	Pc	37 58.26	-0.5

			1.0s	108.50nm	5.5mb
RSCP	40.42	307	P	38 01.80	1.2
			0.9s	302.04nm	6.0mb
TIC	41.41	97	Pc	38 08.34	-0.6
			1.1s	60.50nm	5.3mb
LIC	41.52	98	Pc	38 09.36	-0.4
			1.0s	53.00nm	5.2mb

	Z	20s	0.38um		4.3Msz
KIC		41.76	98 Pc	38	11.28 -0.5
		0.9s	56.50nm		5.3mb
PWLA		42.16	306 P	38	15.60 0.8
ELC		43.76	308 P	38	27.90 0.1
TOL		44.21	48 eP	38	33.00 1.5
FVM		44.88	309 P	38	37.10 0.2
EPF		48.41	46 eP	39	05.90 1.1
		1.2s	65.45nm		5.6mb
TUL		48.50	305 eP	39	05.40 -0.1
		1.3s	94.90nm		5.7mb
	Z	22s	1.69um		5.0Msz
			LR	52	00.00
BIX		48.56	305 iP	39	06.50 0.6
SIO		48.88	304 eP	39	08.40 0.0
LFF		49.36	43 eP	39	12.30 0.4
		1.2s	53.55nm		5.4mb
MFF		49.42	41 eP	39	12.80 0.4
		0.9s	32.75nm		5.3mb
LPF		49.46	39 eP	39	12.70 0.1
		1.0s	38.00nm		5.4mb
LPO		49.56	44 eP	39	13.80 0.3
		1.0s	28.00nm		5.2mb
GRR		49.72	39 eP	39	14.50 -0.2
		1.2s	41.65nm		5.3mb
RJF		50.00	43 eP	39	16.60 -0.3
		1.0s	16.00nm		4.9mb
	Z	20s	1.25um		4.9Msz
FLN		50.11	38 eP	39	16.30 -1.3
		1.0s	24.00nm		5.1mb
	Z	20s	1.25um		4.9Msz
CAF		50.23	44 eP	39	18.70 0.0
		1.2s	50.60nm		5.4mb
LDF		50.25	39 eP	39	18.50 -0.2
		0.8s	13.45nm		5.0mb
MEO		50.55	303 iPd	39	22.20 1.0
FRB		50.77	347 eP	39	26.00 3.6X
TCF		50.81	42 eP	39	23.20 0.2
		1.1s	31.75nm		5.2mb
MAF		51.01	42 eP	39	25.10 0.5
		1.0s	16.00nm		4.9mb
BGF		51.31	42 eP	39	26.90 0.0
		0.8s	20.15nm		5.1mb
AVF		51.72	42 eP	39	29.80 -0.1
		0.9s	24.55nm		5.1mb
SSF		51.92	42 eP	39	31.00 -0.4
		1.0s	22.00nm		5.0mb
SMF		51.99	42 eP	39	31.80 -0.2
		1.0s	26.00nm		5.1mb
LBF		52.19	42 eP	39	32.90 -0.7
		0.8s	14.80nm		5.0mb
LOR		52.21	41 eP	39	33.10 -0.6
		1.0s	24.00nm		5.1mb
	Z	20s	1.00um		4.9Msz
MDZ		52.53	204 eP	39	36.80 0.6
LRG		52.73	47 eP	39	38.20 0.6
		1.1s	19.55nm		4.9mb
LMR		52.80	47 eP	39	38.00 -0.1
		1.2s	29.75nm		5.1mb
FRF		52.96	47 eP	39	39.40 0.1
		1.2s	32.75nm		5.1mb
BNI		53.38	45 Pc	39	43.30 0.8
LPL		53.55	44 eP	39	44.60 0.7
		1.2s	19.35nm		5.0mb
LPG		53.56	44 eP	39	44.80 0.8
		1.0s	14.00nm		4.9mb
SBF		53.59	46 eP	39	43.80 -0.2
		1.2s	89.25nm		5.6mb
DOI		53.62	46 P	39	45.00 0.7
DOU		53.68	38 Pd	39	44.20 -0.2
			ec	40	00.30
HAU		54.05	41 eP	39	46.50 -0.7
		1.0s	20.00nm		5.1mb
	Z	20s	1.25um		5.0Msz
BSF		54.28	42 eP	39	48.20 -0.8
		1.0s	24.00nm		5.2mb
MEM		54.71	38 P	39	52.70 0.7
ENN		54.71	38 eP	39	52.00 0.0
		1.0s	16.00nm		5.0mb
CDF		54.76	41 eP	39	51.60 -1.0
		0.9s	14.75nm		5.0mb
MME		55.96	47 P	40	01.10 -0.4
GOL		56.62	308 P	40	06.20 -0.2
		0.8s	16.37nm		5.1mb
SOTA		56.99	43 iPc	40	07.80 -0.9
		1.1s	51.20nm		5.5mb
			i	40	26.60

15d 06h

ANMO	57.00	302 P	40 09.60	-0.5	VRI	67.42	46 eP	41 17.50	-0.8	VAY	2.09 102 ePn	04 37.70	1.4
	1.2s	21.48nm		5.1mb	NUR	67.45	30 eP	41 18.00	-0.2		S.D. = 1.3 on 11 of 11 obs.		
MNS	57.03	49 P	39 49.70	-19.3X	ABL	67.48	302 P	41 20.10	0.9				
WATA	57.26	43 iPc	40 09.70	-0.9	PNT	67.65	317 ePc	41 20.00	0.2				
	1.1s	37.20nm		5.3mb		0.9s	103.00nm		6.0mb				
		i	40 19.10		FRI	67.76	304 eP	41 20.30	-0.3				
GRF	57.62	40 ePc	40 12.50	-0.5	SYP	68.12	301 eP	41 24.00	0.8				
FVI	57.90	44 eP	40 14.10	-0.8	CM8	68.25	305 eP	41 24.30	0.5				
FFC	58.01	326 P	40 14.50	-1.1	SUF	68.49	28 eP	41 24.00	-0.7				
	1.3s	80.00nm		5.6mb	PR1	68.58	303 eP	41 25.00	-0.9				
MOX	58.12	39 eP	40 16.00	-0.4	LLA	68.77	304 eP	41 26.50	-0.5	MTN	7.21 165 iPd	09 04.10	0.7
	1.5s	31.00nm		5.1mb	ORV	69.05	307 eP	41 29.50	0.9		eS	10 11.00	
HOF	58.19	40 eP	40 16.50	-0.4	LON	69.08	315 P	41 28.60	-0.1	KNA	9.85 182 eP	09 38.00	-0.3
	1.0s	36.00nm		5.4mb	MIN	69.09	308 eP	41 29.00	0.0		eS	11 13.00	
BHG	58.20	43 iPd	40 16.50	-0.6	PRS	69.13	303 eP	41 28.00	-1.2	WB5	14.82 161 eP	10 41.00	-1.2
TRI	58.39	46 iPc	40 17.50	-0.9	LBFM	69.26	309 P	41 30.10	-0.1		eS	10 45.30	
WET	58.53	41 iPd	40 18.00	-0.6	SOD	69.28	304 eP	41 31.50	1.2	ASPA	10.28 166 iPd	11 24.10	0.7
VOY	58.54	45 iPd	40 19.00	-0.6	WDC	69.44	23 eP	41 31.00	0.6		0.4s	34.40nm	5.1mb
CEY	58.85	46 eP	40 21.00	-0.7	KEV	69.79	21 iP	41 33.30	-0.5		eS	14 34.20	
KHC	58.97	42 iPc	40 22.00	-0.5	ALT	70.09	54 eP	41 34.00	-1.1	CHTO	38.60 310 (P)	14 28.00	0.0
	1.2s	16.00nm		5.0mb	PGC	70.17	317 eP	41 35.00	-0.2		S.D. = 1.6 on 5 of 5 obs.		
	N 17s	0.80um			FHC	70.87	308 eP	41 42.00	2.2				
	E 16s	0.40um			MBC	71.20	346 eP	41 42.00	0.9				
LJU	58.98	45 ePd	40 22.00	-0.5		1.1s	15.00nm		5.0mb				
CLL	59.14	39 iPc	40 22.50	-1.0	INK	74.85	337 ePd	42 02.40	-0.2				
	1.2s	38.00nm		5.4mb		0.9s	41.00nm		5.5mb				
VBY	59.39	46 ePd	40 25.50	0.2	DSI	75.22	61 eP	42 06.00	0.6				
BRG	59.60	40 eP	40 26.40	-0.4	FBA	81.04	335 eP	42 37.90	1.2	DAG	15.88 309 iPd	42 01.00	-0.4
	1.3s	23.00nm		5.1mb		1.0s	42.50nm		5.4mb		1.5s	46.30nm	4.4mb
PRU	59.77	41 P	40 27.50	-0.4	PMR	82.63	332 eP	42 45.80	0.8	MBC	18.14 25 ePc	42 31.50	1.7
	Z 16s	0.50um		4.7MszX	IMA	82.97	337 eP	42 48.50	1.6		1.0s	24.00nm	4.3mb
	N 18s	0.40um				0.8s	7.30nm		4.9mb	SOD	21.35 259 iP	43 05.30	-0.4
	E 16s	0.50um			KDC	85.55	329 eP	43 01.30	1.5	INK	25.38 40 eP	43 45.00	0.0
PTJ	59.94	46 eP	40 28.60	-0.6	MAIO	93.33	51 eP	43 39.00	1.7		1.0s	34.00nm	5.0mb
VKA	60.58	43 ePd	40 33.00	-0.5	SHL	122.51	46 ePKP	49 17.50	-1.0	SUF	25.97 257 eP	43 52.00	1.4
SOP	60.63	44 iPc	40 33.40	-0.4		S.D. = 0.9 on 170 of 176 obs.				FBA	27.87 54 eP	44 09.10	1.1
KSP	61.05	40 iPc	40 36.00	-0.6						NB2	28.90 272 P	44 17.70	0.4
DAU	61.19	308 P	40 38.20	0.0							0.8s	3.20nm	4.2mb
NB2	61.24	28 P	40 38.90	-0.9						YKA	32.05 25 eP	44 44.00	-1.1
	1.2s	14.80nm		5.0mb							1.2s	6.50nm	4.4mb
SRO	61.82	44 iP	40 41.50	-0.4						KSP	38.57 264 eP	45 41.00	0.2
		i	40 44.00							KRA	39.04 260 iPc	45 45.60	0.9
HFS	62.07	29 eP	40 42.10	-1.3							e	45 53.90	
	1.0s	33.90nm		5.5mb	MNI	3.75	85 ePc	01 53.50	-0.3	ZST	41.13 263 eP	46 11.50	9.6X
	Z 21s	0.56um		4.7Msz		eS	02 25.00			EDM	41.37 25 eP	46 04.50	0.5
		LR	59 07.00		MKS	6.48	195 e(P)	02 30.50	0.8	PNT	45.03 31 eP	46 36.00	2.3
SES	62.25	319 ePd	40 44.00	-0.8	WB5	24.57	149 eP	06 00.50	-1.2	BJI	45.62 156 eP	46 39.00	0.6
	1.1s	328.00nm		6.4mb X	ASPA	27.58	154 eP	06 29.30	0.2	LRM	48.60 25 eP	47 03.50	-0.2
		pP	40 50.00	20kmX	CHG	27.97	310 eP	06 33.10	0.4	TNP	56.34 30 P	48 00.00	0.0
DUG	62.36	308 P	40 46.00	0.1	CHTO	27.97	310 P	06 31.30	-1.4	CLC	58.58 30 eP	48 16.00	0.4
	1.0s	75.00nm		5.8mb	SHL	37.22	313 eP	07 52.00	-0.8	ISA	58.70 31 eP	48 16.00	-0.4
LRM	62.55	314 eP	40 47.10	-0.1	BJI	39.02	354 eP	08 09.00	1.6	TUL	59.12 9 eP	48 18.00	-1.3
OHR	62.93	51 eP	40 50.30	0.8		Z 24s	0.64um		4.4MszX		1.1s	14.10nm	5.0mb
BEO	62.95	47 eP	40 50.50	1.1	CNCB	162.00	151 ePKP	20 40.00	0.8		Z 18s	0.21um	4.3Msz
KRA	63.21	41 ePc	40 50.90	-0.2	LPB	162.18	150 ePKP	20 44.00	4.8X			e	48 26.40
	1.4s	89.00nm		5.8mb	CCH	162.31	157 (PKP)	20 45.00	5.8X			LR	10 00.00
	Z 18s	1.30um		5.1Msz	ZOBO	162.39	149 PKP	20 22.00	-17.6X	GSC	59.13 29 eP	48 19.00	-0.5
		e	40 54.30				e	20 46.00		SIO	59.27 10 eP	48 18.90	-1.4
		e	49 40.00			S.D. = 1.3 on 9 of 12 obs.				SHL	59.67 182 eP	48 23.50	0.1
SPC	63.29	42 eP	40 51.00	-0.9						SBB	59.70 30 eP	48 23.00	-0.4
SKO	63.46	51 iP	40 52.70	-0.2						MWC	60.15 31 eP	48 27.00	0.4
	Z 19s	0.84um		4.9Msz						PAS	60.22 31 eP	48 27.00	0.1
	E 19s	0.91um								TPC	60.35 29 eP	48 28.00	0.2
		iS	49 44.00		ALBANIA					RVR	60.41 30 eP	48 27.00	-1.1
		LR	07 54.00			ML 3.0 (SKO), 2.7 (TTG).				PLM	61.07 30 eP	48 32.00	-0.9
GLA	63.91	300 P	40 57.60	1.5	ULC	0.49	293 ePg	04 10.80	0.2	GLA	61.45 28 eP	48 42.00	6.7X
EDM	64.13	322 eP	40 56.50	-0.6		eSg	04 20.00			BAR	61.75 29 eP	48 37.00	-0.3
BCAO	64.63	92 iPc	41 00.30	-0.7	TTG	0.79	326 ePg	04 15.40	-0.7	GBA	71.78 197 P	49 39.00	-1.9
	0.9s	32.00nm		5.5mb		eSn	04 28.50			BCAO	84.40 256 iPd	50 45.00	-5.2X
TPC	64.90	301 eP	41 03.00	0.5	PVY	0.83	6 ePg	04 15.60	-1.2		0.5s	4.00nm	4.9mb
BAR	65.48	299 eP	41 07.00	0.8		eSg	04 28.50			S.D. = 1.0 on 29 of 32 obs.			
GSC	65.48	302 eP	41 07.00	0.7	BDV	0.92	304 ePg	04 18.40	0.1				
PLM	65.60	300 eP	41 08.00	0.8		eSg	04 34.50			? OCT 15, 1990 11h 10m 11.46± 0.94s			
TNP	65.75	305 P	41 08.30	0.2	OHR	0.97	133 ePg	04 18.50	-0.8		39.153 N ± 8.1km 27.615 E ± 9.4km		
	0.9s	29.95nm		5.5mb		iSg	04 32.00			DEPTH = 10.0km (geophysicist)			
PEC	65.83	301 P	41 08.60	0.1	SKO	1.20	80 iP	04 22.50	-0.7	TURKEY		(366)	
	1.1s	20.83nm		5.2mb		iSg	04 36.00			MD 2.4 (ISK).			
NEW	65.95	316 P	41 08.80	-0.2		LO	04 39.70						
RVR	66.00	301 eP	41 10.00	0.5		ePg	04 23.00	-0.3					
CLC	66.11	303 eP	41 11.00	0.8	HCY	1.21	304 ePg	04 23.00	-0.3	IZM	0.80 200 ePg	10 27.00	-0.1
SBB	66.34	301 eP	41 12.00	0.2		eSg	04 43.50				eSg	10 38.50	
YKA	66.52	332 eP	41 11.10	-1.2	NKY	1.21	329 ePg	04 22.80	-0.6	DST	0.91 60 ePg	10 29.00	0.2
	0.9s	11.40nm		5.1mb		eSg	04 44.00			EZN	1.20 304 ePn	10 34.00	0.1
MWC	66.56	301 eP	41 14.00	0.7	BRY	1.48	320 ePn	04 27.50	-0.1	BNT	1.22 11 ePn	10 34.00	-0.2
PAS	66.65	301 eP	41 15.00	1.3		eSn	04 51.00				S.D. = 0.3 on 4 of 4 obs.		
ISA	66.83	303 eP	41 16.00	1.1	PLE	1.59	348 ePn	04 31.80	2.7				
						eSn	04 53.50						

15d 11h

DEPTH = 544.8 ± 7.8 km
5.0mb (16 obs.)
FLORES SEA (279)

KUPT	2.99	168	ePd	47	44.00	-10.1X
			eS	48	37.00	
MKS	4.02	299	iPd	48	02.80	1.5
AAI	6.24	56	ePc	48	20.10	-0.3
			eS	49	33.00	
MNI	8.78	12	ePc	48	45.50	0.2
TRT	10.29	267	iPd	48	59.50	-1.1
			eS	49	53.20	
MBL	14.21	192	iPc	49	40.90	0.5
KKM	14.80	333	ePc	49	45.90	-0.5
	0.4s	87.80nm			5.6mb	
WB5	16.75	140	iPd	50	06.10	0.7
			eS	52	55.00	
NANU	16.88	204	iPc	50	08.00	1.4
WARB	19.19	170	iPc	50	30.00	1.1
ASPA	19.43	149	iPc	50	32.10	0.9
	0.6s	33.10nm			5.1mb	
			iS	53	37.20	
MEKA	19.77	192	iPc	50	34.20	0.0
QIS	20.86	131	iPd	50	44.30	0.0
			e	54	00.00	
			e	57	32.50	
			e	01	55.00	
MRWA	22.87	196	iPc	51	02.00	-0.6
PMG	24.00	97	eP	51	11.50	-1.4
	0.6s	40.00nm			5.2mb	
FORR	24.01	169	iPc	51	11.40	-1.3
BAL	24.02	193	iPc	51	12.10	-0.8
	0.4s	49.00nm			5.5mb	
KLB	24.75	191	iPc	51	18.40	-1.0
	0.4s	57.00nm			5.5mb	
MUN	25.45	194	eP	51	24.00	-1.6
CTA	25.93	122	iPd	51	29.80	-0.2
	1.0s	38.00nm			5.0mb	
NWAO	26.15	191	iPc	51	31.10	-0.6
	0.4s	42.00nm			5.4mb	
RKG	27.30	191	iPc	51	46.70	4.9X
	0.4s	65.00nm			5.6mb	
STK	30.06	147	iPd	52	06.40	0.7
	0.8s	29.00nm			4.9mb	
			iS	56	25.20	
BRS	34.64	129	iPc	52	45.30	0.9
			i	52	48.00	
			i	58	14.00	
CHG	35.08	318	eP	52	48.50	0.4
BWA	35.82	143	eP	52	58.00	4.0X
CAN	36.78	143	eP	53	05.10	3.2X
			i	55	11.00	
GYA	37.02	335	iPc	53	04.40	0.4
SSE	38.12	357	Pc	53	12.50	-0.3
	1.0s	20.00nm			4.7mb	
WHN	38.43	348	Pd	53	16.70	1.3
NJ2	39.23	354	Pc	53	22.00	0.2
CD2	42.14	335	P	53	44.60	-0.6
DZM	44.38	114	iPd	54	03.60	0.6
TIY	45.76	348	eP	54	12.20	-1.1
MAT	45.79	17	eP	54	13.00	-0.6
	0.8s	5.97nm			4.2mb	
LZH	46.67	339	iPc	54	21.00	0.5
	1.0s	38.00nm			4.9mb	
BJI	47.43	353	eP	54	24.50	-1.4
	1.0s	10.00nm			4.3mb	
			PcP	55	46.50	
MDJ	51.92	6	eP	54	58.50	-0.6
KHZ	56.59	137	P	55	32.10	0.0
	0.4s	6.00nm			4.4mb	
TCW	56.63	135	P	55	32.00	-0.4
MRW	56.94	135	P	55	33.80	-0.7
CAW	57.15	135	eP	55	35.20	-0.7
WDW	57.16	135	P	55	35.00	-0.9
MNG	57.27	134	P	55	36.10	-0.7
	0.4s	11.00nm			4.5mb	
MTW	57.47	135	eP	55	37.40	-0.7
BLW	57.53	135	eP	55	39.30	0.8
PGZ	57.83	134	eP	55	40.50	-0.1
	0.3s	14.00nm			4.8mb	
NOZ	58.48	131	P	55	45.90	0.9
TNP	117.74	51	(PKP)	04	26.00	0.6
PPD	150.42	191	(PKP)	05	31.00	6.1X
CNCB	153.79	156	ePKP	05	33.00	2.5
			i	05	41.00	
ZOBO	154.21	155	ePKP	05	33.00	1.9
			e	05	42.00	

SIV 156.61 170 PKP 05 49.00 15.4X
S.D. = 1.0 on 47 of 53 obs.

* OCT 15, 1990 11h 54m 02.70 ± 2.83s
38.959 N ± 23.5km 20.538 E ± 15.7km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 3.2 (ATH). ML 3.0 (THE).

IGT	0.59	344	ePd	54	12.40	-2.3
			iS	54	21.56	
VLS	0.78	177	ePn	54	26.60	8.7X
KEK	0.95	323	ePb	54	21.80	1.1
EVR	0.99	92	ePb	54	20.60	-1.0
AGG	1.40	87	iPc	54	28.28	0.0
			eS	54	48.56	
KZN	1.65	35	ePg	54	31.50	-0.4
LIT	1.89	52	ePc	54	36.44	1.1
			eS	55	02.24	
FNA	1.93	19	ePd	54	36.72	0.7
OHR	2.16	5	ePn	54	41.80	2.6X
VAY	2.83	33	ePn	54	49.40	0.7

S.D. = 1.4 on 8 of 10 obs.

? OCT 15, 1990 14h 53m 55.16 ± 10.25s
32.526 S ± 57.9km 71.979 W ± 65.1km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)

ROCH	0.93	119	iPd	54	11.50	-0.6
			iS	54	21.50	
JACH	1.18	98	iPd	54	15.60	0.1
			iS	54	30.00	
LVN	1.50	162	iP	54	20.00	0.0
			iS	54	37.50	
FCH	1.63	120	iPd	54	22.50	0.3
			iS	54	41.10	
PCH	1.64	132	iPc	54	22.50	0.3
			iS	54	43.50	

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

? OCT 15, 1990 16h 14m 15.62 ± 1.31s
16.039 N ± 14.0km 98.320 W ± 17.6km
DEPTH = 33.0km (normal)
NEAR COAST OF GUERRERO, MEXICO (58)

ACX	1.69	299	iP	14	42.64	-0.7
			iS	15	09.91	
III	2.57	335	eP	14	57.63	1.6
			eS	15	32.70	
IIT	2.97	0	eP	15	01.19	-0.5
			(S)	15	46.24	
PPM	3.03	354	eP	14	55.49	-7.3X
			(S)	15	40.09	
IIA	3.11	354	eP	15	02.93	-0.6
			eS	15	47.35	
IIJ	3.91	340	(P)	15	21.56	6.2X
			(S)	16	16.74	
LVVM	4.09	26	(P)	15	03.92	-13.4X
			eS	16	01.88	
LPB	44.00	136	P	22	27.00	4.5X
CNCB	44.28	136	P	22	25.00	0.1
CCH	45.92	135	P	22	51.70	14.0X

S.D. = 1.3 on 5 of 10 obs.

OCT 15, 1990 19h 06m 52.68 ± 0.20s
33.640 N ± 4.3km 56.808 E ± 2.7km
DEPTH = 33.0km (normal)
5.0mb (37 obs.)

IRAN (348)
ML 5.2 (MHI). Felt in the Tabas area and at Ferdows.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.8.: 15S, 28C
Centroid Location:
Origin Time 19:06:51.6 0.7
Lat 33.56N 0.10 Lon 56.74E 0.08
Dep 15.0 BDY Half-duration 1.5
Moment Tensor: Scale 10¹⁶ Nm
Mrr = 4.38 0.32 Mtt = -2.22 0.48
Mff = -2.16 0.35 Mrt = 0.68 1.08
Mrf = 1.71 1.19 Mtr = 3.04 0.32
Principal Axes:
T Vol = 5.10 Plg = 68 Azm = 305
N 0.19 22 138
P -5.29 4 46

Best Double Couple: Mo = 5.2 × 10¹⁶
NP1: Strike = 114 Dip = 45 Slip = 58
NP2: 335 53 118

MHI	3.45	39	iPnd	07	44.80	-0.7
	0.7s	2136.99nm				
			eSn	08	39.00	
BBU	9.22	218	ePn	09	07.60	1.2
BRF	9.27	217	ePn	09	07.40	0.3
QUE	9.28	109	eP	09	07.70	0.3
DHR	9.32	220	eP	09	11.50	3.8X
BJA	9.33	217	iPn	09	08.40	0.5
			eSn	09	32.60	
TAB	9.58	300	eP	09	14.00	2.4
RYD	12.58	228	eP	09	50.00	-2.1
QASM	13.75	240	eP	10	05.00	-2.6
UQSK	14.78	242	ePd	10	20.30	-0.9
AFIF	15.25	235	ePd	10	28.70	1.5
KSH	16.45	64	eP	10	39.00	-3.7X
NDI	18.14	100	iPc	11	05.50	1.8
	0.5s	49.30nm			4.9mb	
			eS	14	32.00	
DSI	18.17	269	eP	11	11.00	7.0X
AYN	18.41	261	ePd	11	08.80	1.9
RMN	19.05	267	eP	11	16.00	1.1
HOL	19.06	263	ePd	11	16.30	1.4
CSS	19.44	280	eP	11	20.00	0.7
KAS	19.81	300	eP	11	25.00	1.7
BBTK	20.21	295	eP	11	28.00	0.4
BOM	20.49	132	eP	11	25.00	-5.5X
			eS	15	13.00	
POO	21.41	130	iPc	11	30.60	-9.3X
BCK	21.65	288	eP	11	43.00	0.8
HLW	21.96	267	eP	11	49.50	4.2X
ALT	22.13	292	iP	11	48.10	1.0
DST	23.33	293	iP	11	59.80	1.0
HYB	25.33	124	eP	12	18.00	-0.2
ISR	25.91	305	ePd	12	26.00	2.7
			e	35	21.50	
VRI	25.99	307	eP	12	25.00	0.9
WMQ	26.02	58	P	12	24.50	0.1
	1.5s	100.00nm			5.2mb	
Z	10s	1.50um			4.8mszx	
N	10s	1.70um				
MLR	26.41	306	ePd	12	29.00	0.9
			e	35	13.50	
CMP	26.97	305	ePc	12	30.00	-3.1X
GBA	27.38	132	Pc	12	37.40	0.5
	1.2s	21.30nm			4.7mb	
VAY	28.10	296	eP	12	42.00	-1.3
SKO	28.99	297	eP	12	5	

15d 19h

0.7s 668.49nm 6.7mb				1.0s 100.00nm 5.8mb				S.D. = 1.4 on 116 of 143 obs.			
BWA	39.29	133 eP	57 50.00 2.1					? OCT 15, 1990 20h 18m 50.95 ± 3.35s			
BRS	39.84	121 iPc	57 55.00 2.5					44.278 N ± 7.4km 6.126 E ± 62.6km			
CAN	40.15	134 eP	57 56.10 1.1	OFUJ	54.98	26 iP+	59 48.90 -1.5	DEPTH = 10.0km (geophysicist)			
COO	40.22	126 iPc	57 58.00 2.4	AOMJ	55.70	24 P	59 54.70 -0.8	FRANCE (538)			
WHN	40.36	360 iPc	57 58.00 1.5	MDJ	56.07	13 Pc	59 56.80 -1.3	ML 2.0 (LDG).			
	1.0s	200.00nm	5.9mb		0.8s	200.00nm	6.2mb	FRF 0.81 152 Pg 19 06.40 -0.2			
Z	24s	0.70um	4.4MsZ	MRRJ	57.57	23 eP	00 06.70 -2.0	Sg 19 17.50			
		S	03 59.00	HOOJ	58.41	25 eP	00 14.20 -0.4	LRG 0.84 168 Pg 19 06.60 -0.5			
SSE	41.39	9 Pc	58 05.50 0.5	WMO	58.93	338 iPc	00 18.00 -0.4	Sg 19 18.60			
	1.2s	150.00nm	5.7mb	Z	28s	0.70um	4.6MsZ	LMR 0.98 163 Pg 19 10.40 0.8			
Z	20s	0.50um	4.4MsZ			eS	08 16.00	Sg 19 22.00			
		sP	58 18.00	KUSJ	59.60	25 eP	00 21.70 -1.1	LPG 1.30 20 Pg 19 15.20 0.0			
SHL	41.75	328 iP	58 08.40 0.1	ASAJ	59.61	23 P	00 21.70 -1.2	S.D. = 1.0 on 4 of 4 obs.			
CD2	42.03	346 P	58 10.90 0.5	QUE	60.81	313 iPc	00 31.60 0.0	* OCT 15, 1990 21h 59m 09.90 ± 0.96s			
	0.6s	280.00nm	6.3mb			eS	08 39.40	21.110 S ± 10.0km 68.947 W ± 19.9km			
NJ2	42.06	5 iPc	58 11.00 0.6	KSH	60.92	326 iPd	00 32.00 -0.1	DEPTH = 182.3 ± 26.4 km			
	1.1s	300.00nm	6.0mb			S	08 42.00	CHILE-BOLIVIA BORDER REGION (124)			
KOD	42.08	298 eP	58 11.00 -0.3	MAW	66.81	199 iP	01 08.60 -1.4	ANT 2.92 207 eP 59 58.20 0.1			
GBA	43.74	302 P	58 23.00 -1.4	MAIO	69.34	315 iPc	01 25.70 -0.7	eS 00 29.00			
XAN	44.17	353 iPc	58 27.50 -0.2		1.1s	17.67nm	4.9mb	CNCB 4.37 12 Pc 00 17.70 0.6			
	1.4s	500.00nm	6.1mb	NAI	77.77	271 iPc	02 18.00 1.9	CCH 4.56 36 P 00 18.00 -1.2			
SVO	44.56	93 eP	58 31.00 -0.1	TAB	79.56	312 eP	02 25.00 -0.3	LPB 4.62 10 P 00 21.50 1.4			
HNR	44.66	93 eP	58 30.00 -2.0	SPA	80.02	180 iPd	02 26.20 -1.0	ZOB0 4.88 9 P 00 23.30 -0.3			
HYB	44.88	307 iPc	58 32.70 -0.9		1.1s	26.79nm	5.1mb	ARE 5.21 332 eP 00 27.00 -0.7			
	1.0s	50.00nm	5.3mb	EVA	81.62	245 iPc	02 41.00 4.5X	eS 01 26.00			
LSA	45.52	331 iP	58 39.00 0.0	ADK	85.09	35 P	02 54.00 0.7	SIV 9.04 57 P 01 12.40 -5.4X			
	2.0s	500.00nm	6.1mb	PRNI	86.19	302 eP	02 59.50 0.2	VAO 20.46 99 (P) 03 35.00 0.1			
		iS	05 15.00	BBTK	90.18	310 eP	03 19.00 0.8	S.D. = 1.2 on 7 of 8 obs.			
TIA	46.07	3 Pc	58 41.70 -1.0	MLR	96.14	315 eP	03 40.00 -5.6X	? OCT 15, 1990 23h 04m 50.08 ± 12.22s			
SHNJ	46.64	19 eP	58 46.40 -0.8	BCAO	96.73	273 iPd	03 49.00 0.3	39.451 N ± 64.2km 27.629 E ± 68.2km			
LZH	46.99	348 iPc	58 51.20 1.0		0.5s	7.00nm	5.4mb	DEPTH = 10.0km (geophysicist)			
	2.0s	380.00nm	6.0mb	SUF	98.14	332 eP	03 54.00 0.1	TURKEY (366)			
Z	30s	0.86um	4.5MsZ	SOD	98.42	337 eP	04 06.00 10.9X	MD 2.6 (ISK).			
N	12s	0.28um		KEV	98.52	339 eP	03 56.00 0.5	DST 0.79 78 iPg 05 04.80 -0.7			
TKSJ	47.52	22 iP+	58 53.60 -0.6	TTA	98.58	28 P	03 56.40 0.3	ISg 05 13.80			
TIY	47.55	358 Pc	58 54.00 -0.5		1.0s	14.50nm	5.5mb	EDC 0.91 11 iPg 05 06.80 -0.7			
	4.0s	900.00nm	6.1mb X	IMA	99.80	24 P	04 01.00 -0.7	eSg 05 16.80			
Z	26s	1.10um	4.7MsZ	PMR	101.75	29 Pdiff	04 10.00 -0.2	BNT 0.93 14 iPg 05 08.00 0.1			
N	11s	0.25um		HFS	104.08	330 ePdiff	04 22.90 2.2	KCT 0.97 35 iPg 05 08.50 -0.1			
WKYJ	48.32	23 eP	58 59.10 -1.4		0.4s	0.80nm	5.0mb	ISg 05 19.00			
YONJ	48.40	21 iP+	58 59.90 -1.1	YKA	116.89	23 ePKP	09 02.00 0.2	IZI 1.67 57 ePn 05 19.00 -0.6			
DL2	49.14	7 eP	59 05.50 -1.1		0.8s	5.40nm		YLV 1.74 50 iPn 05 22.50 1.9			
	1.4s	400.00nm	6.3mb	LKO	121.14	275 PKP	09 11.00 -0.4	S.D. = 1.3 on 6 of 6 obs.			
Z	25s	0.30um	4.2MsZ	NEW	122.45	38 PKP	09 14.50 1.5	OCT 16, 1990 00h 50m 49.60 ± 0.52s			
		S	06 04.00	SES	125.02	34 ePKP	09 17.00 -0.9	38.209 N ± 5.0km 23.207 E ± 5.2km			
POO	49.23	305 iPc	59 06.10 -1.6	ISA	125.62	53 ePKP	09 21.00 1.4	DEPTH = 11.2 ± 3.3 km			
TSRJ	49.63	23 P	59 09.10 -1.4	PAS	126.22	55 ePKP	09 23.00 2.3	GREECE (364)			
BJI	49.85	2 Pc	59 11.50 -0.5	CLC	126.27	53 ePKP	09 23.00 2.2	ML 3.3 (ATH), 3.3 (THE).			
	1.2s	310.00nm	6.2mb	MWC	126.30	55 ePKP	09 23.00 1.9	ATH 0.47 120 iPg 50 57.80 -1.3			
Z	32s	0.75um	4.5MsZ	SBB	126.37	54 ePKP	09 23.00 1.9	AGG 1.06 320 ePc 51 07.68 -1.9			
N	14s	0.85um		LRM	126.38	39 ePKP	09 19.40 -1.6	eS 51 25.08			
IIDJ	50.35	25 P	59 14.90 -1.1	FFC	126.86	26 iPKPd	09 22.70 1.4	NEO 1.10 1 ePb 51 08.50 -1.6			
BTO	50.57	355 iPd	59 17.00 -0.6		0.9s	21.00nm		EVR 1.30 303 ePb 51 10.00 -3.7X			
		pP	59 23.50 22kmX	RVR	126.90	55 ePKP	09 24.00 2.0	ITM 1.44 225 ePn 51 17.70 2.1			
		eS	06 26.50	GSC	127.02	53 ePKP	09 25.00 2.7	VLI 1.50 188 ePb 51 14.90 -1.5			
MHC	50.72	357 Pc	59 18.30 -0.5	TPC	127.94	54 ePKP	09 26.00 2.0	LIT 1.97 344 iPc 51 23.65 0.4			
	1.3s	240.00nm	6.1mb	GLA	129.20	55 ePKP	09 29.00 2.5	eS 51 47.44			
Z	28s	0.70um	4.5MsZ	FVM	144.23	35 PKP	09 52.60 -1.3	VLS 2.06 270 ePn 51 23.00 -1.6			
N	10s	0.30um		HBVT	145.17	10 PKP	09 56.00 0.7	APE 2.17 121 ePb 51 28.00 1.9			
DZM	51.01	110 iPc	59 22.20 0.9	PPD	145.26	203 ePKP	09 55.70 -0.5	PLG 2.17 5 ePn 51 26.00 -0.1			
GTA	51.09	345 iPc	59 22.20 0.5			e	10 15.90	OUR 2.21 16 ePc 51 26.16 -0.4			
	1.2s	110.00nm	5.8mb	OLY	145.28	39 PKP	09 55.80 0.0	KZN 2.37 332 ePb 51 29.50 0.4			
Z	32s	1.00um	4.6MsZ	ELC	145.39	35 PKP	09 56.40 0.5	THE 2.43 356 ePc 51 30.72 1.0			
		pP	59 33.00 37kmX	IJJ	145.51	70 (PKP)	10 00.00 2.7	IGT 2.60 301 iPc 51 34.24 1.9			
		PcP	00 37.40	WVLY	145.70	17 PKP	09 57.40 1.1	eS 52 08.89			
		ScP	04 27.80		146.00	72 (PKP)	10 01.00 3.3X	SOH 2.61 2 ePd 51 32.44 0.0			
		eS	06 35.00	PPM	146.66	71 (PKP)	10 02.60 3.4X	LSK 2.80 315 ePn 51 37.20 2.0			
		ScS	09 05.00	PNJ	148.30	13 iPKP	10 05.40 4.9X	GRG 2.81 347 ePc 51 35.72 0.4			
MTMJ	51.26	24 P	59 21.30 -1.7	SOB1	149.01	233 ePKP	10 07.40 5.0X	VAM 2.91 164 ePn 51 36.40 -0.2			
CHJJ	51.29	25 P	59 21.00 -2.1			e	10 16.00	SMG 2.91 99 ePb 51 40.00 3.4X			
MAT	51.39	24 iPc	59 21.70 -2.2	GBTN	149.28	31 PKP	10 07.40 5.2X	EZN 2.92 55 ePn 51 44.00 7.3X			
KAKJ	51.93	26 eP	59 25.00 -2.9X	NAV	149.50	25 PKP	10 07.60 5.0X	SRS 2.92 6 ePd 51 36.24 -0.5			
SNY	52.27	8 Pc	59 28.70 -1.7	TKL	149.51	30 PKP	10 08.40 5.8X	FNA 2.94 332 ePc 51 38.16 1.1			
	1.4s	200.00nm	6.0mb	BLA	149.74	24 PKP	10 08.00 5.1X	KNT 2.96 355 ePd 51 37.96 0.7			
Z	32s	0.70um	4.5MsZ	JSC	151.84	29 PKP	10 07.50 1.4	eS 52 12.36			
		iS	06 49.00	CCH	152.74	178 PKP	10 11.00 2.8X	SRN 3.00 305 ePn 51 39.00 1.1			
NIIJ	52.31	25 P	59 28.80 -2.0	CNCB	153.19	174 PKP	10 19.00 9.8X	KBN 3.04 323 ePn 51 38.20 -0.2			
NDI	52.79	318 iPc	59 31.70 -2.8	LPB	153.46	174 ePKP	10 19.00 9.6X				
	0.9s	75.63nm	5.7mb	ZOB0	153.71	174 PKP	10 15.00 5.1X				
		iS	06 49.00		1.2s	16.89nm					
YAMJ	53.53	25 iP+	59 38.60 -1.1		Z	24s	0.23um				
CN2	54.49	10 iPc	59 44.60 -2.1			LR	04 48.00				

KEK 3.05 301 ePb 51 39.00 0.4
 VAY 3.15 351 ePn 51 40.40 0.5
 IZM 3.20 85 ePn 51 42.00 1.3
 TPE 3.24 311 ePn 51 42.50 1.2
 MMB 3.40 7 iPd 51 43.00 -0.6
 eSg 52 21.00
 OHR 3.44 328 iPn 51 43.00 -1.2
 NPS 3.52 146 ePg 51 58.00 12.7X
 BERA 3.54 316 ePn 51 47.30 1.7
 KK8 3.65 359 eP 51 47.00 -0.2
 RZN 3.66 18 eP 51 48.00 0.5
 CSI 5.61 288 P 52 15.10 0.1
 eSn 53 18.80
 CZI 5.62 283 P 52 12.20 -2.9
 eS 53 12.40

S.D. = 1.3 on 33 of 37 obs.

? OCT 16, 1990 01h 29m 24.25±0.92s
 36.010 N ±19.8km 143.004 E ±17.2km
 DEPTH = 33.0km (normal)
 4.5mb (2 obs.)
 OFF EAST COAST OF HONSHU, JAPAN (229)

MAT 3.91 279 eP 30 24.00 0.5
 eS 31 09.00
 WB5 56.18 190 eP 39 02.80 -0.4
 e 39 14.70
 ASPA 59.97 190 eP 39 29.40 -0.4
 1.1s 5.10nm 4.6mb
 NB2 75.62 338 P 41 05.80 -1.5
 0.8s 3.70nm 4.4mb
 LPB 146.25 63 ePKP 49 04.00 1.2
 CNCB 146.51 63 PKP 49 04.00 0.6
 S.D. = 1.3 on 6 of 6 obs.

* OCT 16, 1990 02h 38m 49.69±0.79s
 49.870 N ±11.0km 18.522 E ±6.3km
 DEPTH = 10.0km (geophysicist)
 CZECHOSLOVAKIA (547)
 ML 2.4 (VKA).

KRA 0.93 78 eP 39 07.40 -0.1
 iS 39 21.40
 SPC 1.31 121 iPnd 39 14.10 0.0
 iSg 39 34.20
 KSP 1.73 305 iPg 39 20.30 0.3
 iS 39 43.90
 ZST 1.92 210 eP 39 23.00 0.3
 e 39 32.20
 e 39 47.20
 SRO 2.06 184 eP 39 30.20 5.4X
 VKA 2.16 223 iPg 39 31.60 5.3X
 iSg 39 58.50
 PRU 2.58 274 Pn 39 35.00 2.9X
 Pg 39 38.00
 Sg 40 11.50
 BRG 3.10 291 iPg 39 46.00 6.5X
 iSg 40 28.00
 KHC 3.31 259 ePn 39 42.00 -0.6
 Pg 39 49.80
 Sg 40 33.60
 GRF 4.73 271 e(Pg) 40 38.30 35.5X
 eSg 41 20.40

S.D. = 0.5 on 5 of 10 obs.

? OCT 16, 1990 03h 48m 32.72±5.87s
 39.837 N ±9.7km 30.864 E ±54.7km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.5 (ISK).

GPA 0.62 317 ePg 48 44.40 -0.8
 ALT 0.97 217 ePg 48 51.20 -0.1
 eSg 49 03.20
 IZI 1.18 296 ePn 48 55.00 0.2
 HRT 1.34 317 ePn 48 58.00 0.5
 YLV 1.36 303 iPn 48 57.90 0.2

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

* OCT 16, 1990 04h 12m 14.53±0.86s
 46.176 N ±16.6km 152.889 E ±12.1km
 DEPTH = 33.0km (normal)
 4.8mb (13 obs.)
 KURIL ISLANDS (221)

MAT 14.61 234 (P) 15 35.00 -5.7X
 MDJ 16.43 273 eP 16 02.00 -2.0

CN2 19.52 273 eP 16 40.60 -1.3
 SNY 21.47 269 eP 17 01.70 -0.3
 TIY 30.98 269 eP 18 31.80 0.9
 Z 20s 0.40um 4.1msz
 IMA 34.37 35 eP 18 59.40 -0.7
 0.9s 3.60nm 4.3mb
 FBA 36.71 38 eP 19 19.40 -0.4
 LZM 37.75 272 Pc 19 30.00 0.8
 1.5s 40.00nm 5.1mb
 GTA 38.91 280 P 19 39.60 0.8
 0.8s 10.00nm 4.6mb
 CD2 40.68 266 eP 19 53.80 0.4
 GYA 41.44 258 P 20 00.40 0.7
 INK 42.22 32 eP 20 05.50 0.1
 CHG 51.84 257 eP 21 22.90 1.3
 WB5 67.85 199 eP 23 10.20 -1.3
 e 23 28.10

UPP 68.18 338 iP 23 11.70 -1.4
 NB2 68.72 341 P 23 15.30 -1.3
 0.6s 3.00nm 4.5mb
 HFS 68.94 339 eP 23 15.80 -2.0
 0.9s 17.80nm 5.1mb
 GBA 70.26 269 P 23 26.00 -0.5
 CLL 76.92 335 iP 24 04.00 -0.8
 0.8s 8.00nm 4.8mb
 WTS 77.95 339 eP 24 12.00 1.5
 0.9s 10.00nm 4.8mb
 KHC 78.69 334 eP 24 15.60 1.0
 GRF 78.88 336 e(P)c 24 17.00 1.3
 ENN 79.30 339 eP 24 19.00 1.1
 0.7s 11.00nm 5.0mb
 LOR 83.06 339 eP 24 37.70 -0.1
 0.8s 7.40nm 4.8mb
 SSF 83.34 339 eP 24 40.10 0.9
 0.8s 6.70nm 4.8mb
 AVF 83.63 339 eP 24 40.90 0.3
 SMF 83.65 339 eP 24 41.70 0.9
 0.8s 10.05nm 5.0mb
 MAF 84.35 340 eP 24 44.50 0.2
 0.8s 4.05nm 4.7mb
 TCF 84.38 340 eP 24 44.50 0.0
 0.8s 4.05nm 4.7mb
 PPD 148.90 47 (PKP) 31 59.00 2.7X
 S.D. = 1.1 on 28 of 30 obs.

? OCT 16, 1990 04h 21m 28.60±2.00s
 45.832 N ±37.0km 152.609 E ±35.3km
 DEPTH = 33.0km (normal)
 4.5mb (2 obs.)

KURIL ISLANDS REGION (222)

MAT 14.25 234 (P) 24 50.00 0.0
 FBA 37.10 38 P 28 37.10 -0.1
 LZM 37.57 273 Pc 28 41.50 -0.2
 1.5s 17.00nm 4.7mb
 NB2 68.98 341 P 32 31.00 -1.3
 1.0s 3.40nm 4.4mb
 ZST 78.60 331 eP 33 29.80 1.6

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

* OCT 16, 1990 04h 30m 50.53±1.35s
 7.000 N ±11.8km 76.421 W ±10.8km
 DEPTH = 57.8 ±16.5 km
 4.4mb (1 obs.)
 NORTHERN COLOMBIA (99)

FUD 3.07 120 eP 31 37.50 -0.5
 BMG 3.32 89 eP 31 42.00 0.7
 BOG 3.33 135 eP 31 43.00 1.4
 eS 32 28.00
 UPA 3.66 303 iPc 31 45.00 -0.9
 1.5s 222.22nm
 SDV 6.03 72 ePn 32 21.00 1.5
 eSn 33 29.20
 TOV 7.12 67 ePn 32 34.70 0.2
 eSn 33 52.30
 CEOS 8.26 75 eP 32 47.20 -3.1X
 LLAV 10.11 69 eP 33 13.00 -2.8
 ZOBO 24.53 161 eP 36 04.00 -2.8
 Z 16s 0.27um 3.8mszX
 LR 43 38.00
 LPB 24.79 161 eP 36 06.00 -3.1X
 CNCB 25.09 161 P 36 13.00 0.9
 CCH 26.27 157 P 36 22.60 -0.1
 SIV 27.44 146 P 36 34.20 1.1
 SOB1 38.89 114 (P) 38 12.00 -0.5
 ANMO 39.20 319 (P) 38 16.00 1.0

TNP 48.14 316 P 39 28.00 0.9
 YKA 62.00 341 eP 41 09.50 2.7X
 0.8s 2.60nm 4.4mb
 GBA 146.94 52 PKP 50 30.00 2.9X
 S.D. = 1.6 on 14 of 18 obs.

OCT 16, 1990 06h 13m 13.74±0.12s
 49.043 N ±2.7km 155.076 E ±2.2km
 DEPTH = 82.9km (geophysicist)
 6.0mb (76 obs.)

KURIL ISLANDS (221)

Felt (IV) at Mys Vasilyevo and
 (III) at Severo-Kurilsk. Depth
 from broadband displacement
 seismograms.

FAULT PLANE SOLUTION: P-Waves
 NP1: Strike=22 Dip=81 Slip=90
 NP2: 202 9 90
 Principal Axes:

T P1g=54 Azm=292
 P 36 112

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

RADIATED ENERGY

No. of sta: 7 Focal mech. F
 Energy 2.1±0.6×10¹² Nm

MOMENT TENSOR SOLUTION

Dep 75 No. of sta: 13
 Moment Tensor; Scale 10¹⁷ Nm

Mrr=1.09 Mtt=-0.02
 Mff=-1.07 Mrt=2.92
 Mrf=6.50 Mtf=3.97

Principal axes:

T Vol=9.13 P1g=41 Azm=308
 N -2.30 30 188
 P -6.83 35 75

Best Double Couple: Mo=8.0×10¹⁷
 NP1: Strike=106 Dip=30 Slip=7

NP2: 10 87 120
 CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
 L.P.B.: 175, 40C

Centroid Location:
 Origin Time 06:13:17.7 0.2
 Lat 49.01N 0.02 Lon 155.06E 0.03

Dep 89.5 1.7 Half-duration 3.0
 Moment Tensor; Scale 10¹⁷ Nm

Mrr=1.56 0.11 Mtt=-0.31 0.16
 Mff=-1.25 0.15 Mrt=2.29 0.10
 Mrf=5.91 0.11 Mtf=2.59 0.17

Principal Axes:

T Val=7.68 P1g=45 Azm=304
 N -1.68 23 189
 P -6.00 36 81

Best Double Couple: Mo=6.8×10¹⁷
 NP1: Strike=113 Dip=23 Slip=13

NP2: 11 85 113

KUSJ 9.34 234 eP 15 23.50 -4.0X
 S 17 00.60
 ASAJ 9.87 245 P 15 37.10 2.3
 HOOJ 10.59 235 P 15 42.00 -2.4
 S 17 33.60
 MRRJ 11.80 241 eP 15 58.70 -1.9
 SMY 12.56 66 eP 16 08.50 -2.0
 i 18 22.00
 OFUJ 13.84 229 eP 16 22.20 -5.1X
 eS 18 45.90
 YAMJ 15.35 231 P 16 44.10 -2.7
 NIJJ 16.60 231 P 16 59.00 -3.4X
 KAKJ 16.84 226 P 17 00.80 -4.6X
 CHJJ 17.53 228 P 17 12.20 -1.8
 MAJO 17.54 231 iPc 17 14.28 0.2
 iS 20 29.45
 i 20 47.99
 eS 21 00.00
 MAT 17.54 231 P 17 13.00 -1.1
 MTMJ 17.71 232 eP 17 17.50 1.2
 MDJ 17.96 265 Pd 17 18.20 -0.9
 1.0s 200.00nm 5.3mb
 Z 17s 10.80um 4.1mszX
 N 10s 4.60um
 pP 17 35.00
 iS 20 34.00

16d 06h

ADK	18.15	70	eP	17	17.40	-4.1X	Z	20s	1.30um	4.7Msz	KBS	50.44	351	eP	22	03.00	-1.1				
	1.4s	936.40nm				5.8mb	E	12s	0.90um		PGC	51.07	57	eP	22	10.00	0.8				
		i		17	20.90				pP	20	25.00	76kmX	LSA	51.48	273	eP	22	13.80	0.6		
		e		17	30.10				PcP	22	32.00			5.0s	1000.00nm			6.1mb X			
IIDJ	18.52	229	P	17	24.60	-1.4			S	25	34.00				pP	22	34.00	81kmX			
TSRJ	19.46	233	P	17	35.70	-0.6			ScS	30	16.00				S	29	25.00				
WKYJ	20.68	231	P	17	49.40	0.4				20	14.00	2.7X	GMW	52.06	58	P	22	16.80	0.0		
CN2	21.01	267	Pc	17	48.20	-3.9X	GUMO	36.34	197	eP	20	14.00	2.4	BMW	52.42	60	P	22	19.40	-0.1	
	4.0s	800.00nm				5.4mb X	GUA	36.38	197	eP	20	14.00	6.2mb	PNT	52.80	55	ePd	22	22.00	-0.3	
Z	28s	13.80um				5.2MszX	XAN	37.05	264	P	20	16.60	-0.6		0.9s	115.00nm			5.9mb		
		S		21	31.00				5.0s	1100.00nm			6.0mb X	LON	53.06	59	ePd	22	23.55	-0.7	
YONJ	21.08	237	P	17	52.90	-0.1	N	18s	2.70um				LOE	53.21	253	eP	22	25.00	-0.5		
TKSJ	21.67	234	P	17	59.50	0.7	E	18s	2.70um				COR	53.47	62	iPd	22	27.34	0.2		
SHK	22.00	237	eP	18	02.90	0.8			PcP	22	37.50				eS	29	58.73				
HIA	22.99	284	iPc	18	10.23	-1.4	OZH	37.24	243	Pc	20	20.00	1.2			eScS	32	13.95			
SNY	23.13	264	iPc	18	11.00	-2.0			5.0s	1300.00nm			6.1mb X	SHL	53.76	268	iP	22	29.00	-0.8	
	1.4s	150.00nm				5.2mb	Z	34s	3.80um				5.0MszX		iS	29	56.00				
Z	19s	3.40um				4.8Msz			pP	20	38.00	73kmX		EDM	53.79	48	iPd	22	28.60	-0.9	
N	11s	1.10um							S	25	56.00			CHG	53.93	257	iPc	22	31.50	0.6	
E	10s	0.90um								20	33.70	0.6			1.0s	244.50nm			6.2mb		
		S		22	14.00		INK	39.01	34	ePd			5.7mb			eS	29	52.00			
		sS		22	39.50				0.8s	89.00nm			5.0MszX	CHTO	53.93	257	iPc	22	31.28	0.4	
		SS		23	00.00		LZH	39.17	270	iPc	20	34.33	-0.7			iPpc	22	51.47	80kmX		
		ScS		29	16.00				5.0s	870.00nm			5.9mb X	KKM	53.96	231	ePc	22	31.00	-0.2	
SHNJ	23.18	239	eP	18	15.20	1.7	Z	24s	5.20um				5.3MszX	DAG	54.40	358	iPd	22	31.60	-2.0	
KUMJ	24.52	237	eP	18	27.50	1.0	N	16s	3.20um						0.6s	110.00nm			6.1mb		
KAGJ	25.52	235	eP	18	36.70	0.8	E	19s	4.10um					NEW	54.76	55	P	22	36.00	-0.7	
DL2	25.92	260	P	18	39.00	-0.6			epPc	20	53.28	78kmX			1.0s	68.75nm			5.6mb		
	6.0s	1400.00nm				5.7mb X			e	20	54.60			KSH	55.04	292	iPd	22	38.00	-1.0	
Z	38s	8.60um				5.0MszX			sP	21	05.00				14s	3.50um					
N	10s	2.30um					GTA	39.95	277	iPc	20	40.70	-0.7			55.05	255	eP	22	40.00	1.0
E	10s	1.70um							PP	22	06.00				0.7s	41.50nm			5.6mb		
		pP		19	00.00	95kmX			ScS	30	35.00					55.33	66	eP	22	41.70	0.8
BJI	28.88	267	eP	19	05.00	-1.3	Z	24s	5.00um				5.3MszX	PCT	55.46	251	eP	22	43.00	1.0	
	6.0s	900.00nm				5.6mb X			pP	21	02.00	90kmX		NST	55.51	253	eP	22	43.50	1.2	
Z	34s	6.81um				5.0MszX			PP	22	17.50			KEV	55.62	341	iP	22	40.90	-1.6	
N	14s	2.55um							PcP	22	45.00				1.1s	88.80nm			5.7mb		
		eS		23	46.00				eS	26	36.00			L8FM	56.24	64	P	22	48.00	0.3	
TTA	29.84	44	ePd	19	14.20	-0.6			PcP	22	45.00					pP	23	11.90	97kmX		
SVW	29.93	48	ePd	19	15.60	0.0			ScS	30	39.80			WDC	56.33	65	ePd	22	48.10	0.0	
TIA	30.40	259	eP	19	19.00	-0.9	SIT	40.89	51	P	20	50.30	1.7	SES	56.63	50	ePd	22	49.00	-1.1	
	Z	42s	21.30um			5.5MszX			1.2s	242.42nm			5.9mb			0.9s	84.00nm			5.8mb	
E	11s	1.20um					GZH	41.77	247	Pc	20	56.00	-0.3			pP	23	12.00	93kmX		
									4.0s	1400.00nm			6.1mb X	LTCM	56.81	65	P	22	51.60	0.1	
SSE	31.18	248	Pc	19	26.00	-0.8	Z	32s	3.00um				5.0MszX	MIN	57.04	65	eP	22	52.60	-0.7	
	4.0s	1120.00nm				6.0mb X			pP	21	17.00	88kmX		TRO	57.37	343	eP	22	53.00	-2.0	
Z	20s	1.80um				4.7Msz			S	27	04.00			SOD	57.59	339	iP	22	54.00	-2.6	
N	13s	1.10um								20	57.90	0.4		ORV	57.60	65	ePd	22	56.20	-0.8	
		pP		19	44.00	76kmX	MBC	41.99	21	ePd			5.6mb	NNT	58.10	251	eP	23	03.00	2.3	
		S		24	26.00				0.9s	82.00nm			5.0MszX	FFC	58.14	42	iPd	23	00.20	-0.4	
IMA	31.18	38	iPd	19	25.90	-0.7	CD2	42.41	264	P	21	01.20	-0.3			0.9s	61.00nm			5.7mb	
	0.5s	23.90nm				5.2mb			5.0s	1070.00nm			5.9mb X	ZSP	58.16	67	eP	22	59.80	-1.2	
HMC	31.50	272	iPd	19	28.50	-1.2	Z	20s	3.71um				5.3Msz	BRK	58.21	67	eP	23	00.60	-0.7	
	1.4s	400.00nm				6.0mb	N	12s	1.37um					PCC	58.37	68	eP	23	01.70	-0.7	
Z	24s	8.70um				5.3MszX			pP	21	22.00	87kmX		LRM	58.77	55	ePd	23	05.00	-0.5	
N	11s	1.70um					GVA	43.51	257	iPc	21	10.60	0.0		GCC	58.91	68	eP	23	05.80	-0.4
E	10s	1.30um							1.2s	200.00nm			5.8mb	MHC	58.93	68	eP	23	06.20	-0.3	
		PP		20	34.00		Z	42s	3.90um				5.0MszX	ARN	58.99	67	P	23	06.40	-0.4	
		PcP		22	20.50				pP	21	30.00	80kmX		CMB	59.24	66	iPd	23	07.64	-0.9	
		eS		24	34.00		WMO	45.35	290	iPc	21	24.76	-0.4			iPpc	23	29.91	88kmX		
KDC	31.71	54	eP	19	29.40	-1.7			S	27	29.00				eS	31	14.38				
NJ2	31.96	251	Pc	19	33.00	-0.5	Z	32s	5.00um				5.2MszX		eS	31	47.15				
	5.0s	900.00nm				5.8mb X	N	10s	1.90um						eScS	32	38.46				
Z	21s	1.40um				4.6Msz			ePcP	23	03.33				e	33	30.45				
N	11s	2.00um							iPP	23	12.93			SAO	59.42	68	eP	23	09.30	-0.4	
E	13s	1.50um							PcS	26	58.50			PRS	59.75	68	eP	23	11.50	-0.5	
		pP		19	53.00	86kmX			iS	27	57.46			LLA	59.82	68	eP	23	12.30	-0.2	
		sP		20	02.00				eS	28	34.54			PRI	60.30	68	eP	23	16.00	0.1	
		iS		24	36.00				eScS	31	13.18			FRI	60.33	67	eP	23	15.30	-0.6	
		sS		25	12.00		OPA	45.99	109	P	21	31.80	1.5	PTI	60.73	57	P	23	19.60	0.8	
TIY	32.59	266	iPc	19	38.50	-0.6	QIZ	46.97	247	P	21	39.30	1.3			pP	23	43.50	95kmX		
	1.2s	200.00nm				5.8mb			1.2s	100.00nm			5.6mb			pP	23	43.50	95kmX		
Z	40s	5.30um				4.9MszX			N	13s	0.90um			TNP	61.10	64	P	23	21.10	-0.3	
N	18s	3.60um							E	15s	1.30um					pP	23	45.00	99kmX		
		sP		20	10.00					pP	21	57.00	71kmX		NDI	61.24	282	iPc	23	20.70	-1.5
		S		24	50.00				S	28	23.00				1.0s	70.00nm			5.7mb		
BTO	32.64	272	P	19	38.00	-1.6			sS	28	57.50					eS	31	32.00			
	N	14s	2.20um						ScS	31	24.50			SUF	61.46	336	iP	23	21.10	-2.1	
E	14s	1.60um							SS	31	43.50				0.6s	55.70nm			5.8mb		
		pP		19	58.00	86kmX	KMI	46.97	259	iPc	21	38.28	0.0	SNG	61.77	246	eP	23	26.60	0.7	
PMR	33.05	46	eP	19	41.50	-1.2			4.0s	1600.00nm			6.3mb X			eS	31	47.50			
	1.3s	186.00nm				5.8mb	Z	38s	4.70um				5.2MszX	SYF	61.79	69	eP	23	26.00	0.0	
COL	33.55	40	ePc	19	44.72	-2.4			iPc	21	58.23	82kmX		ISA	61.95	67	eP	23	27.60	0.6	
		eS		25	03.75				ePP	23	29.10			DUG	62.26	60	P	23	29.20	0.1	
FBA	33.55	40	iPd	19	47.00	-0.1			eS	28	20.12				1.0s	62.50nm			5.6mb		
TO																					

CLC	62.38	66	iPd	23	29.00	-0.8	CLI	74.54	326	ePc	24	44.50	-0.3	ECB	77.80	349	eP	25	03.00	0.1
FRB	62.45	20	eP	23	28.00	-1.7	BIX	74.58	53	eP	24	45.70	0.6		0.9s	562.00nm				6.5mb
	1.0s	214.00nm				6.2mb	TUL	74.65	53	iP	24	45.40	-0.2	ANTO	77.86	318	iPc	25	03.87	0.3
GSC	63.20	66	iPd	23	35.00	-0.3		1.1s	95.30nm				5.6mb	HBVT	77.89	33	P	25	03.80	0.2
NUR	63.69	335	eP	23	36.00	-2.0	Z	22s	1.85um			5.3msz				pP	25	26.00	84kmX	
TPC	64.47	67	eP	23	43.00	-0.5			e	24	53.50	26kmX		BBTK	77.90	318	eP	25	04.00	0.2
PLM	64.49	68	eP	23	43.00	-0.8			LR	49	00.00					i	25	08.00	13kmX	
CPE	64.67	68	eP	23	46.10	1.4	ASPA	74.81	200	eP	24	43.60	-2.9	ECP	77.92	348	eP	25	03.80	0.2
RGS	64.83	343	eP	23	43.40	-1.9		0.9s	9.90nm			4.7mb X				1.0s	841.00nm			6.6mb
BAR	65.07	68	eP	23	46.00	-1.3	Z	24s	0.80um			4.9msz		DOU	78.04	341	P+	25	04.00	-0.3
MTN	65.16	206	eP	23	48.00	0.1	CLL	74.90	336	iP	24	45.60	-1.2				id	25	05.70	5kmX
AKU	65.49	357	iP	23	50.00	0.6		1.4s	690.00nm			6.4mb				S	34	54.00		
	1.0s	220.00nm				6.0mb			eS	34	12.00		PVL	78.10	325	iPc	25	05.00	0.3	
GLA	65.93	67	eP	23	54.80	1.9	BMR	74.94	328	ePc	24	49.00	2.0	BHG	78.21	335	eP	25	05.90	0.6
UPP	66.08	338	iP	23	51.30	-2.0	WIT	75.04	341	eP	24	48.00	0.5	FUR	78.24	336	eP	25	06.00	0.6
		i	23	52.60	4kmX		BRG	75.05	336	iPc	24	56.40	8.8X		1.4s	890.00nm				6.5mb
NB2	66.47	342	P	23	54.10	-1.9		1.3s	360.00nm			6.1mb	JMB	78.26	324	eP	25	05.00	-0.6	
	0.7s	49.50nm				5.5mb			i	25	10.20	48kmX	BNH	78.33	32	P	25	06.80	0.8	
QUE	66.71	290	iP+	23	57.10	-1.0			i	26	55.40		HRT	78.40	321	eP	25	06.30	-0.2	
		e	24	27.70	124kmX				i	27	27.10		GWf	78.40	339	P	25	06.81	0.5	
		e(S)	33	47.00					i	28	32.20		GBZT	78.52	321	eP	25	07.00	-0.1	
GOL	66.74	56	P	23	58.20	-0.1	KER	75.23	306	eP	24	50.00	0.9	GPA	78.58	320	eP	25	07.50	0.0
	1.1s	33.65nm				5.2mb	VRI	75.32	325	ePd	24	50.00	0.8	CTT	78.64	322	iP	25	07.80	0.1
		pP	24	23.50	100kmX		CFR	75.35	324	eP	24	49.00	-0.4	STR	78.74	339	P	25	09.24	1.1
HFS	66.76	340	eP	23	55.30	-2.4	RMQ	75.40	186	eP	24	50.00	0.2	YLV	78.74	321	iP	25	09.30	0.9
	0.7s	81.30nm				5.8mb	KVT	75.43	317	iP	24	50.10	0.1	IZI	78.89	321	eP	25	08.80	-0.4
Z	24s	1.41um				5.1msz	PRU	75.69	335	Pc	24	51.20	0.0	PTJ	78.96	332	iPc	25	09.30	-0.2
		LR	46	17.00				Z	21s	2.40um		5.5msz	WLS	79.00	339	P	25	10.04	0.4	
MAIO	66.91	299	iPc	24	00.00	0.8		N	21s	2.40um			CDf	79.01	339	P	25	10.17	0.4	
		e	24	28.00	112kmX			E	20s	5.10um			DIM	79.02	324	eP	25	10.00	0.2	
		eS	32	48.00					i	24	52.40	4kmX	ZAG	79.02	332	iPc	25	10.00	0.3	
REY	67.14	359	iP	24	03.00	3.0X	FVM	75.77	48	P	24	51.30	-0.6	WARB	79.08	206	iPd	25	11.20	1.0
TRT	67.61	226	ePc	24	01.60	-1.9	WTS	75.77	340	iPc	24	51.20	-0.4	PG8	79.11	325	iPc	25	11.00	0.7
KONO	68.08	342	ePc	24	06.02	0.1		1.2s	898.00nm			6.5mb	SQTA	79.12	336	iPc	25	10.00	0.4	
HYB	68.26	272	iPc	24	07.20	-0.5	MOX	75.87	337	iPc+	24	52.00	-0.3		1.4s	1485.00nm				6.7mb
	1.0s	285.00nm				6.1mb		1.6s	654.00nm			6.3mb				i	25	24.60		
		i	24	31.00	93kmX		Z	26s	2.30um			5.4msz				ipP	25	49.60	157kmX	
ANMO	69.53	60	ePd	24	15.81	0.3			e	25	27.00	141kmX	RBL	79.18	334	P	25	10.00	-0.6	
	1.2s	33.20nm				5.1mb	TLB	75.90	324	ePc	24	52.00	-0.5	ECH	79.23	339	P	25	11.36	0.5
		i	24	36.00	77kmX		OLP	75.90	190	eP	24	54.00	1.4	LJU	79.26	333	eP	25	10.60	-0.4
		eS	33	22.37					i	25	16.50	85kmX	FVI	79.26	335	P	25	15.20	4.2X	
		eS	33	53.82			PSZ	75.92	331	iP	24	52.90	0.2	PLD	79.29	325	eP	25	11.00	-0.2
		e	34	50.76			MLR	75.93	326	iPd	24	52.50	-0.4	COO	79.31	183	iPc	25	21.80	10.5X
POO	70.54	276	iPc	24	20.80	-0.9	ISR	76.01	325	ePd	24	54.00	0.8				i	25	34.70	44kmX
	1.3s	557.69nm				6.3mb	DBN	76.02	341	iP+	24	52.00	-1.0	SLE	79.32	338	ePc	25	11.30	-0.1
		eS	33	36.00			HOF	76.11	337	iPc	24	53.50	-0.1	FEL	79.34	338	eP	25	11.37	-0.2
OIS	70.65	195	e(P)	24	21.00	-1.1		1.4s	545.00nm			6.3mb	KDZ	79.41	324	eP	25	13.00	1.1	
		e	24	44.00	88kmX		KAS	76.21	319	iPc	24	54.70	0.3	VTs	79.43	326	iPc	25	12.00	-0.2
SCH	70.71	24	eP	24	22.00	-0.1	TNR	76.40	327	ePd	24	55.00	-0.4	VOY	79.45	334	iPc	25	11.20	-1.0
BOM	70.96	277	eP	24	23.00	-1.1	CMP	76.45	326	iPc	24	59.00	3.3X	EMM	79.46	29	P	25	12.70	0.6
		eS	33	33.00			SRO	76.52	332	eP	24	56.40	0.5	OGA	79.50	336	iPc	25	13.30	0.8
WB5	71.05	201	eP	24	23.50	-1.0	ZST	76.55	333	eP	24	56.50	0.4	VITF	79.50	340	P	25	12.77	0.6
		i	24	45.20	83kmX		PSN	76.61	323	iPd	24	57.00	0.5	BNT	79.51	322	iP	25	13.30	0.8
COP	71.07	339	iPd+	24	25.70	1.5	VKA	76.72	333	ePc	24	56.50	-0.6	VBY	79.53	333	iPc	25	13.50	1.1
	1.3s	600.00nm				6.3mb		2.5s	1287.00nm			6.4mb	EDC	79.55	322	iP	25	12.30	-0.3	
		i	24	30.00	14kmX				epP	25	36.50	163kmX	CEY	79.56	333	iPc	25	12.40	-0.3	
GBA	71.76	270	P	24	28.00	-1.0			e	27	18.00		MOF	79.57	339	P	25	13.03	0.2	
TAB	72.82	309	iP+	24	36.00	0.9	KHC	76.73	335	iPc	24	57.50	0.3	SAX	79.58	337	ePc	25	13.40	0.3
EDU	73.21	348	eP	24	36.00	-0.9		1.2s	240.00nm			6.0mb	ZLA	79.61	338	ePc	25	13.30	0.3	
	1.0s	271.00nm				6.1mb		Z	20s	0.60um		4.9msz	HAU	79.61	339	iPc	25	13.00	0.1	
ELO	73.38	348	eP	24	36.80	-1.1		N	20s	1.60um				1.1s	324.30nm				6.1mb	
	1.1s	316.00nm				6.1mb		E	20s	0.70um			Z	20s	1.25um				5.3msz	
EBH	73.57	348	eP	24	38.20	-0.8			S	34	38.00		RZN	79.64	325	iPc	25	13.00	-0.4	
	1.0s	562.00nm				6.4mb	GRF	76.85	337	iPc	24	58.30	0.5	DHR	79.65	298	PKP	25	13.30	-0.1
EDI	73.84	347	eP	24	39.60	-0.9		1.3s	1050.00nm			6.6mb	BSF	79.67	339	P	25	13.53	0.2	
	1.0s	191.00nm				5.9mb		Z	22s	1.00um		5.1msz	ALT	79.69	320	iP	25	14.20	0.6	
BRN	73.85	337	ePc	24	41.00	0.4	ELC	76.90	48	P	24	57.80	-0.4	TRI	79.79	334	iPc	25	13.00	-0.8
EAU	73.95	348	eP	24	40.50	-0.7	WET	76.91	336	iPc	24	58.50	0.4	RDO	79.79	324	iPc	25	14.00	0.1
	1.1s	631.00nm				6.4mb	CLE	77.00	40	iP	24	58.40	-0.3	ALN	79.81	323	ePc	25	13.50	-0.5
MEO	74.02	55	iPd	24	41.50	-0.5	TNS	77.05	339	ePc	24	59.10	0.2	DST	79.86	321	iP	25	14.60	0.2
KRA	74.03	332	iPd	24	41.80	0.1	ENN	77.12	340	iPc	24	59.00	-0.2	OSS	79.90	336	ePc	25	15.30	0.6
	0.8s	222.00nm				6.1mb		1.0s	721.00nm			6.5mb	VVI	79.92	335	P	25	13.40	-1.2	
Z	24s	2.50um				5.4msz	OLY	77.19	50	P	24	59.00	-0.9	RIY	79.93	333	iPc	25	14.00	-0.6
E	24s	3.80um					RSNY	77.20	34	P	24	58.90	-0.9	RSCP	80.01	46	P	25	15.20	-0.1
		i	24	52.50	35kmX			1.0s	39.77nm			5.3mb		0.9s	111.52nm				5.8mb	
KOD	74.22	267	iPc	24	43.90	0.1	DRA	77.24	326	ePd	25	02.00	2.0	LLS	80.03	337	ePc	25	15.90	0.5
	0.8s	74.63nm				5.6mb	MEM	77.25	340	iPc	24	59.92	0.1	CTI	80.08	335	Pc	25	15.00	-0.5
		eS	34	11.00			CBM	77.31	29	P	25	00.00	0.5	KKB	80.10	326	iPc	25	19.00	3.4X

16d 06h

IVA	80.37	328	eP	25	17.20	0.1	BHB	82.36	338	P	25	26.05	-1.3	EMON	86.62	347	eP	25	49.10	0.3	
LDF	80.41	344	eP	25	17.10	0.0	KSL	82.38	318	eP	25	27.00	-0.6	ECRI	86.63	344	iPd	25	49.90	1.0	
KHL	80.56	320	iP	25	18.00	-0.2	RRL	82.40	338	P	25	28.92	1.0	GIB	86.72	330	P	25	48.50	-1.0	
SRS	80.56	325	ePc	25	17.70	-0.3	CKI	82.49	337	P	25	28.30	0.3	HLW	86.82	314	eP+	25	50.00	0.1	
EZN	80.61	323	eP	25	17.90	-0.4	PYM	82.50	341	P	25	29.67	1.5					36	09.00		
SKO	80.61	327	iPc	25	17.90	-0.4	ASS	82.51	333	P	25	29.10	0.8	KLB	86.90	211	eP	25	49.70	-0.4	
	1.7s	827.00nm				6.4mb	LSK	82.52	327	eP	25	28.40	0.1	ERC	87.14	331	P	25	50.80	-0.7	
Z	20s	1.55um				5.4Msz	PII	82.53	335	Pc	25	27.50	-0.7	MCT	87.17	330	P	25	56.00	4.2X	
		i		25	25.20	23kmX	HLBJ	82.58	311	Pc	25	46.42	17.6X	MEU	87.22	329	P	25	52.60	0.7	
		iS		35	14.00		TPE	82.60	327	eP	25	36.20	7.5X	LVI	87.27	331	P	25	53.20	1.3	
		i		36	24.50		JARJ	82.63	312	Pc	25	46.51	17.4X	PZI	87.29	329	P	25	53.34	1.1	
		LR		05	59.00		DOI	82.68	337	P	25	29.20	0.1		1.3s	978.20nm			6.7mb		
NKY	80.73	329	e(P)	25	18.30	-0.7	BURJ	82.70	312	Pc	25	47.14	17.7X	STS	87.33	348	eP	25	53.20	1.0	
GRR	80.74	344	eP	25	19.20	0.3	FIN	82.71	337	P	25	28.67	-0.5	KMSA	87.50	298	PKP	25	53.00	-0.5	
TMA	80.77	337	ePc	25	19.50	0.2	PZZ	82.71	338	P	25	28.76	-0.6	ERUA	87.61	347	eP	25	54.50	0.9	
VAY	80.77	326	iPc	25	19.00	-0.1	ROB	82.71	337	P	25	29.04	-0.2	EROQ	87.76	341	eP	25	55.20	0.8	
	1.2s	815.00nm				6.5mb	AGG	82.86	325	ePc	25	28.30	-1.8	MUN	87.79	212	eP	25	54.30	0.0	
KNT	80.78	325	ePc	25	19.00	-0.2	ENR	82.89	337	P	25	28.62	-1.6	ESEL	88.21	339	eP	25	57.00	0.5	
SAL	80.79	336	Pc	25	19.50	0.4	RYD	82.90	300	PKP	25	30.50	-0.1	ETOR	88.27	343	iPc	25	57.20	0.3	
BRY	80.80	329	eP	25	18.50	-0.9	STV	82.90	337	P	25	28.91	-1.4	NWAO	88.30	211	eP	25	57.30	0.6	
BCK	80.82	318	iP	25	17.50	-2.0	LBL	82.94	340	P	25	31.80	1.5	PTS	88.45	331	P	25	58.00	0.3	
MDI	80.85	336	P	25	19.80	0.4	AQU	82.95	332	P	25	31.30	0.8	GUD	88.83	344	iPd	26	00.20	0.5	
LOR	80.87	341	iPc	25	19.60	0.0	MDSJ	82.97	311	Pc	25	48.62	17.8X	ECHE	89.24	342	e(P)	26	02.10	0.6	
	1.0s	343.75nm				6.2mb	SRN	82.97	327	eP	25	30.30	-0.2	TOL	89.55	344	iPd	26	04.50	1.6	
Z	20s	1.75um				5.4Msz	IMI	83.07	337	P	25	31.00	0.0		1.3s	250.00nm			6.3mb		
KKS	80.89	328	eP	25	20.00	0.3	KFNJ	83.07	312	Pd	25	49.05	17.9X	EPLA	89.72	346	iPd	26	04.20	0.5	
SOH	80.91	325	ePc	25	19.10	-0.8	ZNT	83.08	312	eP	25	31.00	-0.3	ABHA	90.18	298	PKP	26	08.00	1.5	
TTG	80.98	329	eP	25	19.70	-0.4	FORR	83.10	203	iPd	25	31.90	0.8	KMTA	90.18	298	PKP	26	08.70	2.3	
RUWJ	81.00	310	Pd	25	40.48	19.9X		0.4s	19.00nm			5.4mb	EVIA	90.47	343	iPd	26	08.20	0.9		
GRC	81.02	341	P	25	21.35	1.1	AUTN	83.11	337	P	25	32.36	0.8	EBAN	91.17	343	eP	26	11.20	0.8	
VAI	81.02	337	Pc	25	20.40	0.1	TOUF	83.14	337	P	25	32.40	0.8	ECOG	91.99	343	iPc	26	14.40	0.1	
BLA	81.03	42	ePc	25	21.10	0.5	MNS	83.14	333	Pc	25	31.00	-0.4	AFC	92.01	343	eP	26	14.20	-0.3	
	1.0s	30.00nm				5.1mb	LHS	83.14	44	P	25	31.20	-0.3	ENIJ	92.02	342	eP	26	14.70	0.4	
MMK	81.05	337	ePc	25	21.70	0.9	MASJ	83.15	312	Pc	25	49.17	17.4X	EPRU	92.60	344	eP	26	18.70	1.7	
OUR	81.09	324	ePc	25	20.30	-0.5	IGT	83.16	326	ePc	25	30.80	-0.7	EJIF	93.14	344	iPd	26	20.60	1.1	
LBF	81.12	340	iPc	25	20.90	0.0	KEK	83.19	327	eP	25	31.30	-0.4	NKM	94.11	344	iP	26	25.50	1.6	
LPF	81.12	344	eP	25	21.20	0.4	SBF	83.23	337	iPc	25	32.00	0.1					26	27.00	5kmX	
SSF	81.14	341	iPc	25	21.10	0.1	AURF	83.23	337	P	25	32.62	0.6	IFR	95.93	343	iP	26	32.00	-0.6	
GRG	81.15	326	ePc	25	20.80	-0.3	ATH	83.24	323	eP	25	31.40	-0.6	AVE	96.55	345	iP	26	36.00	0.8	
DIX	81.16	338	ePc	25	22.40	0.9	RJF	83.24	342	eP	25	32.50	0.6	BCAO	114.73	311	ePKP	31	45.91	-0.4	
THE	81.22	325	ePc	25	20.50	-0.9		Z	20s	1.25um		5.3Msz							32	40.46	
HCY	81.22	329	eP	25	20.40	-1.0	DUI	83.25	331	P	25	32.80	0.7	LKO	119.23	338	PKP	31	54.80	-0.1	
HVAR	81.25	331	iP	25	20.60	-1.0	AZI	83.27	332	P	25	33.50	1.5	TIC	121.87	337	PKP	32	00.70	0.8	
BDV	81.25	329	eP	25	21.00	-0.6	MVIF	83.27	337	P	25	32.97	0.7	KIC	122.07	336	PKP	32	00.90	0.7	
SDA	81.26	328	iPd	25	22.10	0.5	LCI	83.29	328	Pc	25	32.00	-0.2	LIC	122.28	336	PKP	32	01.00	0.4	
PLG	81.26	325	iPc	25	21.00	-0.8	MKRJ	83.34	312	Pc	25	50.18	17.5X		Z	20s	0.32um		5.0Msz		
EMS	81.29	338	ePc	25	22.80	0.8	QTRJ	83.36	311	Pc	25	50.34	17.5X	KRI	125.61	286	iPKPd	32	11.50	4.3X	
FAM	81.31	315	eP	25	23.00	1.0	REVJ	83.36	337	P	25	33.40	0.8	BUL	128.70	284	iPKPd	32	14.20	1.2	
BST	81.37	346	P	25	23.67	1.5	SDI	83.41	332	Pc	25	32.50	-0.4	ZOBO	132.09	62	PKP	32	21.00	0.9	
ULC	81.39	328	eP	25	21.50	-0.9	CALN	83.47	337	P	25	34.24	1.0					17	00.00		
AVF	81.44	341	iPc	25	22.80	0.3	CAF	83.49	341	eP	25	34.20	1.0	LPB	132.32	63	PKP	32	23.00	2.7X	
IZM	81.44	321	eP	25	22.20	-0.5	QASM	83.56	303	PKP	25	34.00	0.1	CNCB	132.60	63	PKP	32	22.00	1.0	
ORO	81.44	337	P	25	23.50	0.8	RMP	83.65	333	Pc	25	34.70	0.7					35	44.00		
SMF	81.47	340	iPc	25	23.00	0.3	FRF	83.71	337	iPc	25	34.70	0.4	CCH	134.12	61	PKP	32	25.20	1.6	
CSS	81.65	315	eP	25	23.50	-0.4	RFI	83.72	332	P	25	35.56	1.2					35	47.00		
FNA	81.68	326	ePc	25	23.10	-0.8		1.3s	3471.20nm			7.2mb X	SIV	135.82	55	PKP	32	14.20	-12.3X		
TIR	81.72	328	eP	25	24.20	0.1	LFF	83.75	342	eP	25	35.40	0.9					32	27.40		
BGF	81.77	341	eP	25	24.70	0.5	LRG	83.88	338	iPc	25	35.80	0.7	SOB1	138.10	24	ePKP	32	20.00	-10.9X	
RSM	81.79	334	P	25	25.70	1.4		1.2s	511.35nm			6.4mb	SPA	138.85	180	iPKPc	32	32.90	2.1		
LSD	81.81	338	P	25	25.75	0.9	KAP	83.90	320	eP	25	34.40	-1.0		0.8s	20.42nm					
LPL	81.86	338	iPc	25	26.10	1.1	LPO	83.90	342	eP	25	36.10	0.8	BAO	141.72	38	e(PKP)	32	32.00	-5.4X	
BOB	81.86	336	P	25	25.40	0.6	BSS	83.93	331	P	25	34.90	-0.5	MDZ	143.67	80	ePKP	32	36.90	-3.4X	
LIT	81.86	325	ePc	25	23.70	-1.2	LMR	83.96	338	iPc	25	36.00	0.5	BLE	144.55	279	ePKP	32	42.50	0.9	
LPG	81.87	338	iPc	25	26.30	1.1	SGO	83.97	330	P	25	34.90	-0.7		0.6s	33.33nm					
	1.0s	437.50nm				6.3mb	PGF	84.04	336	P	25	36.82	0.7	PPD	145.87	47	ePKP	32	44.20	-0.1	
HRI	81.89	312	eP	25	25.00	-0.2	ORI	84.04	329	P	25	36.80	0.8					32	54.20		
KZN	81.95	326	iPc	25	24.30	-1.1	MGR	84.27	330	Pc	25	37.60	0.4					33	06.90		
SFI	81.97	334	Pc	25	26.60	1.3	MMN	84.35	330	P	25	37.60	0.1					33	23.50		
KBN	82.02	327	eP	25	25.30	-0.3	CSI	84.35	329	P	25	37.80	0.2	VAO	148.71	42	ePKP	32	53.30	4.4X	
ARV	82.04	333	Pc	25	26.10	0.4	TDS	84.44	329	P	25	38.10	0.1					32	57.10		
MME	82.05	335	P	25	27.47	1.4	ROI	84.44	329	P	25	40.80	2.7X					33	06.90		
RSP	82.07	338	P	25	25.43	-0.6	UQSK	84.45	303	PKP	25	39.60	1.2					33	19.50		
MAF	82.15	341	iPc	25	27.00	0.8	ITM	84.62	324	iPc	25	37.80	-1.2					33	33.40		
PLDF	82.16	340	P	25	27.68	1.3	CZI	84.91	329	P	25	38.80	-1.5	JFO	149.06	35	ePKP				

ASAJ	5.14	272	P	28	16.40	-0.1
MRRJ	6.59	258	P	27	21.60	0.4
			S	28	52.00	
OFUJ	7.93	233	P	28	00.60	-0.3
			eS	29	21.80	
FBA	39.63	36	(P)	33	35.00	0.2
GBA	68.01	268	Pd	37	02.80	-0.5
	0.7s	1.60nm		4.2mb		
	S.D. = 1.1	on 7 of 7 obs.				
? OCT 16, 1990 08h 52m 28.35±2.90s						
	11.260 N ±14.0km			61.819 W ±55.9km		
	DEPTH = 33.0km (normal)					
WINDWARD ISLANDS (95)						
MD 3.0 (TRN).						
TRN	0.73	146	eP	52	41.15	-1.1
			eS	52	51.79	
GRW	0.91	10	eP	52	44.81	0.0
			eS	52	58.98	
TPP	1.00	159	eP	52	46.58	0.5
			eS	52	57.65	
TBH	1.07	136	eP	52	47.65	0.6
			eS	53	00.11	
	S.D. = 1.3	on 4 of 4 obs.				
? OCT 16, 1990 10h 14m 10.77±1.06s						
	39.070 N ±9.9km			27.639 E ±18.0km		
	DEPTH = 10.0km (geophysicist)					
TURKEY (366)						
MD 2.3 (ISK).						
IZM	0.73	204	ePg	14	25.20	0.0
			iSg	14	37.20	
DST	0.93	55	ePn	14	28.60	0.0
EDC	1.29	8	ePn	14	33.80	-0.8
BNT	1.30	9	iPn	14	35.70	0.8
	S.D. = 1.2	on 4 of 4 obs.				
? OCT 16, 1990 10h 15m 46.25±2.67s						
	43.782 N ±50.5km			7.362 E ±44.5km		
	DEPTH = 10.0km (geophysicist)					
NEAR SOUTH COAST OF FRANCE (379)						
ML 2.2 (LDG).						
SBF	0.10	33	Pg	15	49.00	0.0
			Sg	15	56.00	
FRF	0.56	247	Pg	15	58.00	0.3
			Sg	16	10.60	
LMR	0.76	234	Pg	16	01.20	0.0
			Sg	16	17.80	
LRG	0.80	246	Pg	16	01.40	-0.3
			Sg	16	17.80	
	S.D. = 0.4	on 4 of 4 obs.				
? OCT 16, 1990 10h 47m 28.20±0.97s						
	39.103 N ±8.3km			27.630 E ±9.8km		
	DEPTH = 10.0km (geophysicist)					
TURKEY (366)						
MD 2.3 (ISK).						
IZM	0.76	202	ePg	47	43.20	0.1
			eSg	47	55.70	
DST	0.92	57	iPn	47	45.60	-0.3
EZN	1.24	306	ePn	47	51.00	-0.2
BNT	1.27	10	iPn	47	52.20	0.4
	S.D. = 0.5	on 4 of 4 obs.				
? OCT 16, 1990 12h 12m 15.70±1.03s						
	13.061 N ±13.3km			144.708 E ±31.4km		
	DEPTH = 62.1 ± 8.9 km					
	4.3mb (1 obs.)					
MARIANA ISLANDS (216)						
GUA	0.51	23	ePd	12	27.80	-0.3
			eS	12	43.50	
GUMO	0.55	16	ePd	12	28.60	0.2
PJG	0.55	16	iPd	12	28.70	0.3
MAT	24.10	347	eP	17	27.00	0.4
WB5	34.28	197	eP	18	57.80	-0.3
ASPA	38.00	196	eP	19	29.80	0.2
	1.0s	3.60nm		4.3mb		
FBA	68.77	25	(P)	23	15.40	0.5
INK	74.91	22	ePd	23	49.00	-2.3
TNP	88.29	51	(P)	25	03.50	1.3
KIC	144.03	301	PKP	31	46.84	0.0

TIC	144.11	301	PKP	31	47.04	0.0
LIC	144.35	301	PKP	31	47.82	0.4
	S.D. = 1.0	on 12 of 12 obs.				
* OCT 16, 1990 12h 55m 14.16±2.12s						
	32.642 S ±8.7km			71.795 W ±16.0km		
	DEPTH = 10.0km (geophysicist)					
NEAR COAST OF CENTRAL CHILE (135)						
ROCH	0.74	117	iPd	55	29.00	0.2
			iS	55	41.50	
LCCH	0.85	167	iPd	55	31.30	0.7
			iS	55	45.00	
JACH	1.01	93	iPd	55	32.50	-0.9
			iS	55	47.10	
PEL	1.06	119	iPd	55	34.50	0.3
			iS	55	50.60	
TACH	1.24	145	iPc	55	37.50	0.3
			iS	55	58.00	
SAN	1.25	131	iP	55	37.60	0.2
			iS	55	56.10	
LNv	1.35	166	iPd	55	37.90	-1.1
			i	55	56.20	
			iS	55	58.50	
FCH	1.44	119	iPc	55	40.40	-0.2
			iS	56	01.20	
PCH	1.45	133	iPc	55	40.50	0.0
			iS	56	02.50	
RTCB	2.79	66	ePd	56	00.50	0.7
			eS	56	37.80	
RTLL	3.11	66	ePd	56	04.00	-0.3
			eS	56	47.80	
	S.D. = 0.7	on 11 of 11 obs.				
* OCT 16, 1990 13h 05m 16.17±2.04s						
	32.672 S ±8.7km			71.722 W ±15.3km		
	DEPTH = 10.0km (geophysicist)					
NEAR COAST OF CENTRAL CHILE (135)						
ROCH	0.67	117	iPd	05	30.00	0.4
			iS	05	42.00	
LCCH	0.81	171	iP	05	32.50	0.6
			iS	05	45.90	
JACH	0.95	91	iPd	05	33.50	-0.9
			iS	05	48.10	
PEL	0.99	119	iPd	05	35.20	0.2
			iS	05	51.60	
TACH	1.18	146	iP	05	38.50	0.3
			iS	05	57.50	
SAN	1.18	131	eP	05	38.50	0.2
			iS	05	57.00	
LNv	1.31	169	iPd	05	39.20	-1.1
			i	05	58.00	
			iS	05	59.70	
FCH	1.37	119	iPc	05	41.20	-0.4
			iS	06	02.00	
PCH	1.39	133	iP	05	42.00	0.4
			i	06	06.90	
RTCB	2.75	65	ePd	06	02.10	0.9
RTLL	3.07	65	ePd	06	05.20	-0.5
			(S)	06	48.70	
	S.D. = 0.7	on 11 of 11 obs.				
? OCT 16, 1990 13h 23m 56.65±7.10s						
	43.714 N ±29.4km			128.200 W ±48.8km		
	DEPTH = 10.0km (geophysicist)					
OFF COAST OF OREGON (30)						
KMOR	3.87	59	P	24	56.70	-0.9
NLO	4.13	53	P	25	00.72	-0.4
HBO	4.26	86	P	25	02.47	-0.7
PGO	4.46	65	P	25	06.29	0.4
BMW	4.47	50	P	25	05.34	-0.7
GT2	4.48	69	P	25	05.99	-0.2
RVW	4.58	56	P	25	07.20	-0.3
LVP	4.74	58	P	25	10.12	0.1
VLMM	4.76	65	P	25	10.32	0.1
FL2	4.84	57	P	25	11.33	0.0
MTMW	4.84	59	P	25	11.28	-0.1
TDH	4.85	69	P	25	11.63	0.1
CKZ	4.87	54	P	25	10.83	-0.8
ERM	4.90	56	P	25	11.15	-1.0
APW	4.90	51	P	25	11.72	-0.4
SHW	4.90	58	P	25	12.67	0.4
VBEW	4.93	72	P	25	12.65	0.0
HSR	4.93	58	P	25	12.93	0.3
JLK	4.93	58	P	25	12.73	0.1

STD	4.93	57	P	25	12.63	-0.1
ESD	4.96	58	P	25	14.09	1.0
VLL	4.98	67	P	25	13.58	0.3
CDFW	4.99	59	P	25	13.46	0.1
TDL	4.99	56	P	25	13.48	-0.1
KOSW	5.06	55	P	25	14.37	-0.1
APM	5.07	64	P	25	15.08	0.6
VFP	5.08	69	P	25	15.68	0.9
LMW	5.12	53	P	25	14.94	-0.3
GULW	5.19	63	P	25	17.28	1.0
ASR	5.29	60	P	25	17.60	-0.1
LON	5.44	54	P	25	19.40	-0.4
RVC	5.45	52	P	25	20.07	0.1
REMR	5.46	53	P	25	20.36	0.2
GLK	5.46	56	P	25	20.34	0.1
WPW	5.57	55	P	25	21.79	0.1
VGB	5.60	69	P	25	22.25	0.2
FMW	5.62	53	P	25	21.97	-0.4
GL2	5.71	64	P	25	23.46	-0.1
HTW	6.08	45	P	25	29.61	0.9
EBG	6.26	57	P	25	31.50	0.2
JCW	6.26	42	P	25	31.71	0.4
MXC	6.28	60	P	25	31.64	0.0
RPW	6.64	42	P	25	36.37	-0.3
MBW	6.69	39	P	25	38.06	0.5
CRF	6.95	60	P	25	40.74	-0.3
RC1	6.97	59	P	25	41.00	-0.3
S.D. = 0.5 on 46 of 46 obs.						

? OCT 16, 1990	13h 32m	51.98±13.10s				
32.233 S ±78.3km		72.189 W ±73.4km				
DEPTH = 33.0km (normal)						
OFF COAST OF CENTRAL CHILE		(134)				
ROCH	1.24	127	iPd	33	12.50	-0.8
			iS	33	25.00	
LCCH	1.34	157	iPc	33	14.80	0.2
			iS	33	28.00	
JACH	1.42	109	iPd	33	15.90	0.1
			iS	33	30.60	
PEL	1.56	126	iPd	33	17.70	-0.1
			iS	33	33.50	
SAN	1.77	134	eP	33	20.50	-0.3
			iS	33	40.00	
LNv	1.84	159	eP	33	21.50	-0.2
			i	33	34.00	
			i	33	40.30	
			iS	33	42.80	
FCH	1.94	125	iPd	33	24.00	0.5
			iS	33	44.50	
PCH	1.97	135	iPd	33	24.50	0.7
			iS	33	45.50	
S.D. = 0.5 on 8 of 8 obs.						

OCT 16, 1990	14h 25m	30.72±0.42s				
43.149 N ± 4.2km		0.006 W ± 4.8km				
DEPTH = 28.3 ± 4.4 km						
PYRENEES		(378)				
ML 4.1 (LDG). mblg 3.6 (MDD).						
Felt (V) in the Lourdes area,						
France.						
BTH	0.15	260	iPg	25	38.50	2.3
EPF	0.28	115	Pg	25	35.20	-2.6
			Sg	25	39.00	
LPO	1.76	29	Pn	26	01.00	1.3
			Pg	26	04.80	
LFF	1.87	16	Pn	26	03.00	1.7
			Pg	26	07.40	
ECRI	1.92	255	iP	26	04.69	2.6
			eS	26	28.60	
ETER	2.27	111	iPnc	26	09.90	2.8
			eSn	26	39.00	
CAF	2.32	39	Pn	26	00.50	0.7
			Pg	26	15.40	
EROO	2.34	172	ePn	26	11.40	3.3x
			eSn	26	38.40	
RJF	2.42	26	Pn	26	09.60	0.4
			Pg	26	17.20	
ETOR	2.78	214	ePn	26	15.00	0.6
			eSn	26	44.90	
LBL	3.13	47	Pn	26	19.34	0.1
LSF	3.29	19	Pn	26	22.50	1.0
			Pg	26	33.20	
MFF	3.45	358	Pn	26	24.20	0.3
			Pg	26	36.40	
			Sg	27	22.00	

16d 14h

TCF	3.51	26	Pn	26 24.20	-0.6
			Pg	26 37.40	
			Sg	27 22.50	
MAF	3.58	30	Pn	26 25.80	0.1
			Pg	26 38.40	
			Sg	27 25.80	
ECHE	3.63	192	ePn	26 25.90	-0.5
			eSn	27 03.60	
AGO	3.67	37	Pg	26 40.47	13.6X
SSB	3.90	55	Pn	26 30.05	-0.2
			Pg	26 44.25	
			Sg	27 34.58	
BGF	3.97	30	Pn	26 30.50	-0.6
			Pg	26 46.40	
GUD	3.98	232	ePn	26 31.70	0.2
			eSn	27 16.70	
ESEL	4.02	146	ePn	26 31.40	-0.5
			eSn	27 15.40	
AVF	4.35	32	Pn	26 35.80	-0.8
			Pg	26 53.50	
			Sg	27 49.80	
SMF	4.44	37	Pn	26 38.20	0.4
			Pg	26 54.00	
			Sg	27 52.50	
TOL	4.46	224	e(Pg)	26 43.00	4.8X
			eSn	27 28.00	
			e(Sg)	27 58.00	
SSF	4.63	31	Pn	26 40.40	-0.2
			Pg	26 58.60	
			Sg	27 58.00	
LRG	4.66	84	Pn	26 43.50	2.6
LBF	4.76	35	Pn	26 41.80	-0.6
			Pg	27 00.00	
			Sg	28 02.80	
LMR	4.76	86	Pn	26 43.60	1.2
FRF	4.87	83	Pn	26 45.30	1.4
EVIA	4.89	204	ePn	26 42.80	-1.5
LPF	4.94	352	Pn	26 44.60	-0.2
			Pg	27 03.10	
			Sg	28 08.00	
LOR	4.94	32	Pn	26 43.60	-1.4
			Sg	28 06.80	
GRR	5.27	354	Pn	26 48.60	-1.0
			Pg	27 10.40	
			Sg	28 18.80	
ERUA	5.31	264	ePn	26 50.60	0.4
			eSn	27 49.50	
LPL	5.38	62	Pn	26 51.20	-0.2
LDF	5.45	359	Pn	26 50.40	-1.7
			Pg	27 14.00	
			Sg	28 22.70	
SBF	5.46	80	Pn	26 52.00	-0.4
EPLA	5.50	238	ePn	26 51.90	-0.9
			eSn	27 51.50	
FLN	5.62	357	Pn	26 53.40	-1.2
			Sg	28 28.80	
EBAN	5.75	211	ePn	26 55.10	-1.3
			eSn	27 56.30	
HAU	6.59	40	Pn	27 32.00	23.8X
PGF	6.65	92	Pn	27 07.00	-2.1
EHOR	6.65	219	ePn	27 08.60	-0.5
			eSn	28 18.50	
DOU	7.63	23	P	27 21.90	-0.9
S.D. = 1.3 on 40 of 44 obs.					
? OCT 16, 1990 14h 38m 55.47±0.98s					
39.062 N ± 0.4km 27.681 E ± 9.9km					
DEPTH = 10.0km (geophysicist)					
TURKEY (366)					
MD 2.5 (ISK).					
IZM	0.74	206	ePg	39 10.00	0.0
			eSg	39 24.70	
DST	0.91	53	iPn	39 13.00	0.0
EZN	1.30	306	ePn	39 19.50	0.0
BNT	1.31	8	ePn	39 19.60	0.0
S.D. = 0.0 on 4 of 4 obs.					
OCT 16, 1990 15h 45m 50.26±0.95s					
43.402 N ± 5.6km 5.411 E ± 7.0km					
DEPTH = 10.0km (geophysicist)					
NEAR SOUTH COAST OF FRANCE (379)					
MD 2.6 (STR).					
GELF	0.02	147	Pg	45 52.05	-0.2
BERF	0.22	113	Pg	45 55.48	0.4
TREF	0.22	355	Pg	45 54.88	-0.2

PUYF	0.25	58	Pg	45 54.74	-0.8
PRAF	0.44	336	Pg	45 59.42	0.2
VILF	0.50	26	Pg	45 59.75	-0.7
TAVF	0.52	65	Pg	46 00.27	-0.5
CALN	1.13	71	Pg	46 12.04	0.5
WVIF	1.36	68	Pn	46 15.61	0.3
REVIF	1.46	76	Pn	46 17.56	0.8
TOUF	1.47	65	Pn	46 17.13	0.2
			Sg	46 37.56	
AURF	1.47	70	Pn	46 17.13	0.2
AUTN	1.58	67	Pn	46 18.71	0.2
DOI	1.72	50	P	46 21.50	1.0
			eSn	46 46.00	
PGF	2.77	107	Pn	46 34.19	-1.4
S.D. = 0.7 on 15 of 15 obs.					
OCT 16, 1990 16h 27m 20.92±0.57s					
51.253 N ± 13.7km 175.096 W ± 5.5km					
DEPTH = 33.0km (normal)					
4.7mb (15 obs.) 4.6Msz (5 obs.)					
ANDREANOF ISLANDS, ALEUTIAN IS. (7)					
Felt (11) on Adok.					
ADK	1.18	303	iPc	27 41.50	0.4
			iS	27 57.70	
SDN	9.65	59	e(P)	29 42.30	1.9
			e	29 52.70	
SVW	14.60	40	eP	30 53.20	6.4X
KDC	14.61	55	eP	30 48.00	1.2
TTA	15.55	34	eP	31 04.50	5.4X
PMR	17.57	44	P	31 22.50	-2.0
IMA	18.40	28	eP	31 36.60	1.7
			1.0s	11.60nm	4.0mb
TOA	19.06	44	e(P)	31 43.60	0.7
FBA	19.65	36	e(P)	31 49.70	0.2
INK	26.25	34	eP	32 53.50	-0.8
LON	34.60	76	eP	34 08.00	-0.6
MAT	36.07	264	eP	34 21.00	-0.2
			1.0s	12.00nm	4.8mb
NEW	36.74	71	eP	34 27.40	0.7
			1.1s	9.26nm	4.6mb
CN2	39.85	283	eP	34 52.00	-0.6
			1.0s	20.00nm	4.8mb
Z	18s		0.90um		4.7Msz
N	14s		0.40um		
E	14s		0.30um		
SNY	42.08	282	eP	35 01.00	30kmX
			1.2s	100.00nm	5.4mb
Z	20s		0.50um		4.4Msz
TNP	42.14	85	eP	35 22.20	10.4X
FFC	42.31	56	eP	35 13.00	0.3
			0.8s	10.00nm	4.6mb
DUG	43.62	79	e(P)	35 29.40	5.6X
			1.0s	6.25nm	4.3mb
BW06	44.11	74	eP	35 29.00	1.1
			1.1s	4.96nm	4.2mb
PLM	45.37	90	eP	35 38.00	0.1
BJI	47.66	285	eP	35 55.50	-0.2
			1.3s	29.00nm	5.1mb
Z	19s		0.59um		4.6Msz
GOL	48.48	75	eP	36 01.20	-1.2
			0.7s	3.64nm	4.5mb
HHC	49.95	288	eP	36 13.00	0.3
Z	24s		0.50um		4.4MszX
SSE	50.32	272	P	36 18.50	2.2
			1.0s	12.00nm	4.9mb
BTO	51.02	289	eP	36 22.00	0.3
TIY	51.40	285	iPd	36 25.20	0.7
Z	22s		0.50um		4.5Msz
N	20s		1.00um		
XAN	55.96	284	P	36 57.20	-0.9
LZH	57.64	289	Pc	37 10.00	-0.2
			1.5s	40.00nm	5.2mb
Z	12s		0.50um		4.8MszX
GTA	57.76	294	Pd	37 09.60	-1.4
			1.0s	10.00nm	4.8mb
Z	20s		0.90um		4.9Msz
E	15s		0.40um		
CD2	61.27	284	eP	37 35.00	-0.2
WMQ	61.34	305	P	37 34.50	-1.1
H8VT	63.38	52	eP	37 48.00	-1.0
C8M	63.85	47	eP	37 50.00	-2.0
LHS	66.45	64	eP	38 08.50	-0.4
N82	67.95	357	P	38 16.40	-1.6
			0.9s	5.00nm	4.6mb
HFS	68.74	355	eP	38 20.90	-2.0

	0.4s	1.70nm	4.5mb
LSA	69.66	292 iPc	38 30.80 1.2
CHG	73.07	279 eP	38 50.00 0.4
MAIO	80.54	318 eP	39 32.00 0.8
QUE	82.29	309 eP	39 41.70 1.1
SKO	86.04	348 eP	40 00.20 1.1
KSR	149.60	318 ePKP	47 07.00 3.3X
S.D. = 1.1 on 37 of 42 obs.			
* OCT 16, 1990 16h 28m 54.74±0.70s			
51.293 N ±15.1km 175.053 W ± 7.2km			
DEPTH = 33.0km (normal)			
4.8mb (10 obs.) 4.4Msz (3 obs.)			
ANDREANOF ISLANDS, ALEUTIAN IS. (7)			
Felt (11) on Adok.			
ADK	1.18	301 iPc	29 15.00 0.1
		eS	29 30.00
SVW	14.55	40 eP	32 26.20 6.2X
KDC	14.56	55 e(P)	32 26.40 6.4X
TTA	15.50	34 eP	32 38.30 6.0X
IMA	18.36	28 eP	33 10.40 2.2
	1.0s	13.30nm	4.1mb
TOA	19.02	44 eP	33 16.80 0.6
FBA	19.61	36 eP	33 23.60 0.8
INK	26.20	34 eP	34 27.00 -0.6
MBC	32.82	21 eP	35 25.50 -1.1
MAT	36.11	264 eP	35 55.00 -0.3
	1.0s	12.00nm	4.8mb
NEW	36.70	71 eP	36 10.00 9.8X
	0.9s	7.68nm	4.6mb
SNY	42.10	282 Pd	36 45.40 0.5
	1.2s	50.00nm	5.1mb
Z	20s	0.50um	4.4Msz
		pP	36 57.60 45kmX
		eS	43 00.00
TNP	42.11	85 e(P)	37 06.00 20.6X
	1.0s	2.50nm	
DUG	43.59	79 eP	37 12.70 15.4X
	1.0s	7.50nm	
PLM	45.34	90 eP	37 13.50 2.0
BJI	47.68	285 eP	37 30.00 0.3
	1.4s	42.00nm	5.3mb
GOL	48.44	75 eP	37 35.00 -1.0
	0.8s	5.95nm	4.7mb
HHC	49.96	288 eP	37 46.00 -0.6
SSE	50.35	272 P	37 46.00 -4.3X
	1.2s	14.00nm	4.8mb
		pP	37 53.70 26kmX
BTO	51.04	289 eP	37 56.00 0.4
NJ2	51.16	275 P	37 58.00 1.5
TIY	51.41	285 iPd	37 58.90 0.5
LZH	57.65	289 eP	38 43.50 -0.6
	1.5s	42.00nm	5.3mb
Z	20s	0.60um	4.7Msz
CD2	61.28	284 eP	39 08.80 -0.3
WMQ	61.34	305 eP	39 04.80 -4.6X
GYA	62.66	279 P	39 17.80 -0.7
HBVT	63.34	52 eP	39 21.80 -0.7
CBM	63.80	47 eP	39 24.40 -1.1
LHS	66.41	64 eP	39 42.00 -0.5
NUR	67.43	350 eP	39 50.00 1.5
NB2	67.91	357 P	39 50.50 -1.1
	1.0s	5.80nm	4.6mb
HFS	68.70	355 eP	39 53.70 -2.8
	0.5s	2.60nm	4.6mb
Z	21s	0.15um	4.2Msz
		LR	04 28.00
LSA	69.67	292 P	40 04.00 0.5
KHC	79.68	354 eP	41 00.00 -0.2
QUE	82.29	310 eP	41 15.00 0.6
S.D. = 1.1 on 27 of 35 obs.			
* OCT 16, 1990 17h 09m 37.01± 1.92s			
13.221 S ±13.5km 167.030 E ± 9.5km			
DEPTH = 204.9 ± 14.4 km			
5.2mb (5 obs.)			
VANUATU ISLANDS (186)			
BKM	4.57	165 iP	10 46.50 -0.2
		iS	11 33.50
DZM	8.82	184 iPc	11 43.00 1.1
		iS	13 20.40
BRS	19.40	221 iP	13 50.50 0.9
CTA	21.03	248 iPd	14 06.10 0.2
	0.8s	23.88nm	4.8mb
RMO	21.63	230 iPc	14 12.20 0.5

PUZ	26.69	160	P	14	58.60	-0.5
CNZ	26.95	165	P	15	03.20	1.7
NOZ	27.12	161	P	15	02.80	0.0
MNG	28.28	166	P	15	13.10	-0.2
KIW	28.39	167	P	15	14.10	-0.2
PGZ	28.47	165	P	15	14.30	-0.7
0.6s 77.00nm 5.6mb						
TCW	28.60	169	P	15	16.30	0.2
CAW	28.66	167	P	15	16.00	-0.7
MRW	28.70	168	P	15	16.60	-0.4
WDW	28.80	167	P	15	17.00	-0.8
MTW	28.80	167	P	15	17.00	-0.9
THZ	28.89	171	P	15	19.90	1.1
BLW	29.00	167	P	15	19.50	-0.1
MOW	29.00	167	P	15	19.30	-0.4
KHZ	29.63	170	P	15	24.80	-0.4
0.4s 34.00nm 5.4mb						
LTZ	29.80	172	P	15	27.10	0.3
MOZ	30.76	172	P	15	34.80	-0.3
WB5	31.96	254	eP	15	44.00	-1.9
ASPA	33.02	247	eP	15	53.40	-1.6
0.4s 8.80nm 4.7mb						
WARB	39.98	245	iPc	16	53.90	0.6
MBL	45.64	253	eP	17	39.00	0.0
NANU	49.68	252	eP	18	10.00	-0.2
SPA	76.86	180	iPc	21	08.10	0.4
0.9s 48.64nm 5.2mb						
MAW	83.19	202	eP	21	42.00	1.0
FBA	84.99	18	P	21	50.00	0.0
SOB1	144.43	127	ePKP	28	50.20	-1.1
e 28 51.80						
BCAO	147.70	257	iPKPc	28	59.50	2.8
0.5s 31.00nm						
id 29 46.00						
ic 30 15.00						
S.D. = 1.0 on 32 of 32 obs.						

* OCT 16, 1990 17h 56m 50.57s
58.167 N 156.505 W
DEPTH = 0.0km
ALASKA PENINSULA (12)
<AGS-P>.

BGM	1.40	28	eP	57	15.57	-1.7
MCNL	1.53	47	iP	57	17.08	-2.1
eS 57 37.77						
CDD	1.68	62	eP	57	19.44	-2.0
AUI	1.99	53	eP	57	24.37	-1.4
AUH	2.00	52	eP	57	25.78	-0.2
PDB	2.02	35	eP	57	24.88	-1.4
AUE	2.02	52	eP	57	26.48	0.2
KDC	2.18	99	eP	57	28.75	0.2
OPT	2.26	47	eP	57	28.10	-1.7
eS 57 58.85						
RED	2.96	39	eP	57	37.97	-1.9
SVW	2.98	8	eP	57	38.98	-1.1
RSO	3.00	38	eP	57	39.21	-1.3
CNPM	3.06	61	eP	57	40.09	-1.0
RDY	3.20	39	eP	57	41.21	-1.9
NNL	3.28	53	eP	57	43.76	-0.5
BKL	3.70	33	eP	57	49.73	-0.6
GKL	3.74	32	eP	57	50.45	-0.5
SPU	3.77	35	eP	57	50.19	-1.2
CRP	3.81	33	eP	57	52.16	0.2
CGLM	3.89	34	eP	57	53.70	0.7
NCG	3.92	32	eP	57	53.31	-0.2
21 obs. associated						

* OCT 16, 1990 18h 01m 51.46± 0.68s
51.254 N ±16.4km 174.999 W ± 7.0km
DEPTH = 33.0km (normol)
4.8mb (11 obs.) 4.5Msz (4 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)
Felt (11) on Adok.

ADK	1.23	302	iPc	02	12.50	0.2
SDN	9.60	59	eP	04	13.90	3.7X
KDC	14.56	55	e(P)	05	24.30	7.6X
SVW	14.56	40	eP	05	21.60	4.8X
e 05 33.20						
TIA	15.52	34	eP	05	34.70	5.5X
IMA	18.38	28	eP	06	07.00	1.9
1.2s 15.40nm 4.0mb						
TOA	19.02	44	e(P)	06	13.40	0.5
FBA	19.62	36	eP	06	20.50	0.8
INK	26.21	34	eP	07	24.00	-0.5
PNT	34.73	71	eP	08	43.00	2.8

MAT	0.6s	15.00nm	5.1mb
36.13 265 iPc 08 52.00 -0.2			
1.1s 12.66nm 4.8mb			
CNZ	39.91	283	eP
Z 18s 0.60um 09 22.60 -1.1			
eP 09 29.00 22kmX			
TNP	42.08	85	eP
0.9s 3.91nm 09 47.30 5.4X			
SNY	42.14	282	iPc
1.2s 40.00nm 09 42.70 0.7			
PLM	45.31	90	eP
10 00.50 -7.5X			
BJI	47.72	285	eP
10 26.00 -0.7			
1.5s 39.00nm 5.2mb			
Z 22s 0.31um 4.2Msz			
TIA	49.54	280	eP
10 41.40 0.6			
HHC	50.01	288	eP
10 44.20 -0.3			
SSE	50.38	272	eP
10 33.00 -14.3X			
BT0	51.08	289	P
10 53.00 0.3			
NJ2	51.20	275	Pc
10 54.80 1.3			
TIY	51.45	285	Pc
10 55.50 0.0			
Z 28s 0.60um 4.5MszX			
WHN	55.04	277	eP
11 23.00 1.0			
XAN	56.02	284	P
11 27.90 -1.2			
LZH	57.70	289	iPc
11 40.50 -0.7			
1.5s 34.00nm 5.2mb			
Z 22s 0.50um 4.6Msz			
pP 11 46.50 20kmX			
sP 12 00.00			
GTA	57.81	294	eP
11 40.40 -1.5			
0.6s 10.00nm 5.0mb			
Z 22s 0.50um 4.6Msz			
FVM	58.42	67	eP
11 44.70 -1.3			
CD2	61.33	284	eP
12 05.40 -0.7			
WMQ	61.39	305	P
12 05.00 -1.4			
GYA	62.70	279	eP
12 15.60 0.2			
HBVT	63.33	52	eP
12 18.00 -1.2			
GBTN	63.61	65	eP
12 20.30 -0.9			
CBM	63.80	47	eP
12 21.50 -0.8			
NAV	64.36	62	eP
12 26.00 -0.1			
LHS	66.40	64	eP
12 38.00 -1.1			
NB2	67.95	357	P
12 46.70 -1.9			
1.0s 4.40nm 4.5mb			
HFS	68.75	355	eP
12 51.20 -2.3			
0.5s 5.30nm 4.9mb			
LSA	69.71	292	Pc
13 01.20 0.7			
KSH	70.50	309	eP
13 05.00 0.3			
CHG	73.13	279	eP
13 22.50 2.0			
KHC	79.73	354	eP
13 57.80 0.7			
MAIO	80.58	318	eP
14 03.00 1.1			
OUE	82.34	310	eP
14 12.40 1.0			
SKO	86.06	348	iP
14 30.00 0.3			
GBA	90.15	292	P
14 51.00 1.4			
0.7s 1.90nm 4.5mb			
S.D. = 1.2 on 38 of 45 obs.			

? OCT 16, 1990 18h 25m 17.75± 2.59s
31.486 S ±21.1km 179.837 W ±32.0km
DEPTH = 401.3 ± 24.2 km
KERMADEC ISLANDS REGION (177)

HBZ	6.29	194	P	26	57.10	3.0
PUZ	6.76	193	P	26	57.70	-1.7
S 28 20.80						
NOZ	7.33	193	P	27	04.50	-1.3
WHH	7.97	201	P	27	15.90	2.7
PGZ	9.64	198	P	27	33.30	0.8
MNG	9.87	201	P	27	34.50	-0.6
KIW	10.27	203	P	27	39.30	-0.6
MTW	10.36	200	P	27	40.80	0.0
CAW	10.44	202	P	27	39.50	-2.3
WDW	10.61	202	P	27	43.50	-0.3
MOW	10.67	200	P	27	44.60	0.1
MRW	10.67	203	P	27	44.50	0.1
TCW	10.80	204	P	27	45.30	-0.6
THZ	11.79	208	P	27	57.80	0.0
KHZ	12.12	204	P	28	00.70	-0.8
LTZ	12.91	207	P	28	11.30	1.4
DZM	15.41	304	iPc	28	35.90	-0.8
WB5	42.58	274	eP	32	39.00	1.1
SOD	140.82	344	ePKP	44	00.00	-1.2
SUF	144.60	340	iPKP	44	08.90	1.1
0.5s 21.50nm						
NUR	146.76	338	iPKP	44	15.60	4.2X
0.7s 16.00nm						
BCAO	148.03	216	iPKPd	44	22.30	7.4X
0.5s 6.00nm						
UPP	149.31	343	iPKP	44	27.20	11.8X

NB2 149.55 349 PKP 44 23.10 7.3X
0.6s 3.50nm
HFS 149.96 346 ePKP 44 22.70 6.3X
0.4s 1.70nm
S.D. = 1.5 on 20 of 25 obs.
OCT 16, 1990 19h 58m 16.06± 0.32s
44.913 N ± 3.0km 10.777 E ± 3.1km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 3.7 (VIE), 3.5 (LDG), MD 3.3 (TRI).

SAL	0.72	346	P	58	31.70	1.5
			eSg	58	43.00	
BDI	0.86	189	P	58	34.00	1.3
			eSg	58	47.00	
BOB	0.96	262	P	58	36.80	2.5
			eSg	58	51.50	
MDI	1.15	319	P	58	38.70	1.2
			eSg	58	54.80	
PII	1.21	189	P	58	39.80	1.3
			eSg	58	56.00	
PGD	1.24	147	Pc	58	39.40	0.2
			eSg	58	55.60	
SFI	1.26	142	Pc	58	39.10	-0.3
			eSg	58	57.50	
CTI	1.29	28	P	58	39.80	-0.2
			eSg	58	57.10	
CRE	1.54	146	P	58	43.30	-0.3
			eSg	59	02.50	
RSM	1.55	129	P	58	42.40	-1.3
VVI	1.58	47	P	58	44.80	0.7
			eSg	59	04.40	
PCP	1.63	258	P	58	46.56	1.6
			S	59	10.12	
VAI	1.71	305	P	58	46.20	0.3
			eSn	59	09.00	
TMA	1.79	312	P	58	47.63	0.2
VDL	1.82	330	iPd	58	48.60	0.7
OSS	1.83	346	iP	58	51.20	3.3X
CKI	1.85	256	P	58	49.80	1.7
			eSn	59	12.50	
OGA	1.96	5	iPnc	58	53.10	3.2X
FIN	1.97	250	P	58	49.38	-0.4
			S	59	14.21	
ARV	2.10	131	P	58	51.40	-0.4
ROB	2.17	254	P	58	52.77	0.0
FVI	2.19	39	P	58	52.40	-0.6
			eSn	59	19.00	
SCE	2.22	17	ePn	58	56.70	3.0X
TRI	2.25	68	i(Pn)d	58	50.70	-3.2X
			i(Pg)	58	53.00	
			i	58	57.20	
			i(Sn)	59	16.60	
			i(Sg)	59	24.00	
MMK	2.28	301	P	58	54.38	-0.2
ASS	2.29	143	P	58	53.70	-0.8
IMI	2.30	245	P	58	54.18	-0.5
LLS	2.32	328	eP	58	56.10	1.0
SGTA	2.33	7	ePn	58	55.40	0.3
	0.3s		59.90nm			
			iPg	59	00.10	
			i	59	27.30	
			iSg	59	30.90	
VOY	2.46	62	ePn	58	54.00	-3.0X
			ePb	59	00.30	
			eSn	59	32.30	
WATA	2.49	13	iPnc	58	57.50	0.1
	0.2s		8.40nm			
			iPg	59	02.00	
			i	59	32.20	
			iSg	59	34.70	
ENR	2.50	255	P	58	56.15	-1.3
BHB	2.50	270	P	58	56.29	-1.1
RSP	2.51	277	P	58	55.87	-1.8
SAX	2.54	337	P	59	00.59	2.3
DOI	2.55	262	P	58	59.50	1.3
STV	2.56	256	P	58	57.42	-0.9
AUTN	2.57	250	Pn	58	58.23	-0.4
			Sg	59	33.44	
LSD	2.62	283	P	59	00.24	0.9
DIX	2.64	297	eP	59	02.10	2.4
PZZ	2.65	262	P	58	58.13	-1.6
AURF	2.68	249	Pn	59	00.27	0.2
			Sg	59	35.83	
TOUF	2.68	252	Pn	59	00.92	0.7

16d 19h

PGF	2.69	209	Sg	59	36.15	
			Pn	58	59.23	-1.1
			Sg	59	31.97	
CEY	2.70	71	ePb	59	04.00	3.6X
			eSn	59	43.50	
REVF	2.71	246	Pn	59	01.77	1.2
MVIF	2.79	250	Pn	59	02.50	0.8
			Sg	59	39.25	
RRL	2.84	272	P	59	03.35	0.9
LJU	2.87	66	ePb	59	08.00	5.2X
			eSn	59	46.00	
BN1	2.91	274	P	59	05.00	1.6
CALN	3.02	249	Pn	59	04.71	-0.2
ZLA	3.06	328	P	59	09.78	4.4X
BHG	3.16	27	ePn	59	12.80	6.0X
FRF	3.26	247	Pn	59	07.60	-0.7
			Sn	59	47.60	
SLE	3.26	332	eP	59	07.70	-0.6
LMR	3.45	244	Pn	59	10.00	-1.0
			Sn	59	51.50	
LRG	3.50	247	Pn	59	11.60	0.1
			Sn	59	54.40	
FEL	3.53	328	eP	59	10.85	-1.3
PTJ	3.78	73	eP	59	17.20	1.5
BSF	4.02	318	Pn	59	18.00	-1.0
			Sn	00	03.20	
CDF	4.25	327	Pn	59	20.90	-1.4
HAU	4.35	317	Pn	59	22.40	-1.3
			Sn	00	12.00	
KHC	4.63	23	ePn	59	27.40	-0.4
			Pg	59	34.00	
			Sn	00	24.10	
			Sg	00	44.50	
SMF	5.15	292	Pn	59	33.80	-1.3
LBF	5.18	296	Pn	59	34.20	-1.2
LOR	5.36	299	Pn	59	36.70	-1.3
			Sn	00	35.60	
SSF	5.50	296	Pn	59	38.80	-1.3
AVF	5.52	293	Pn	59	38.50	-1.7
BGF	5.79	289	Pn	59	43.00	-1.1

S.D. = 1.2 on 60 of 69 obs.

% OCT 16, 1990 20h 00m 01.44 ± 0.68s
 45.075 N ± 4.9km 7.169 E ± 8.5km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.1 (GEN).

RSP	0.10	39	P	00	05.00	0.7
			S	00	06.64	
RRL	0.31	241	P	00	08.48	0.4
			S	00	12.69	
LSD	0.38	359	P	00	08.69	-0.7
			S	00	13.10	
PZZ	0.57	185	P	00	13.51	0.4
			S	00	22.63	
STV	0.84	172	P	00	16.99	-0.7
			S	00	28.48	
ENR	0.87	168	P	00	17.71	-0.5
			S	00	29.00	
ROB	0.93	147	P	00	19.56	0.4

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

% OCT 16, 1990 20h 20m 03.79 ± 1.30s
 39.502 N ± 7.6km 16.520 E ± 10.5km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN ITALY (390)

ROI	0.08	28	P	20	06.60	0.3
TDS	0.21	318	P	20	08.70	0.3
			eSg	20	12.30	
CSI	0.33	327	P	20	10.40	-0.2
			eSg	20	15.20	
CZI	0.41	227	P	20	12.10	-0.1
MMN	0.56	314	P	20	15.40	0.2
ORI	0.56	354	P	20	14.70	-0.5

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

OCT 16, 1990 21h 07m 41.13 ± 0.65s
 43.161 N ± 6.0km 0.024 E ± 8.2km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 3.3 (LDG). Felt (IV) in the
 Lourdes area.

EPF	0.27	119	Pg	07	46.00	-0.8
LPO	1.74	29	Pg	08	15.50	4.0X

LFF	1.85	16	Pn	08	39.10	0.9
			Pg	08	14.10	
			Sg	08	18.20	
ECRI	1.94	254	eP	08	43.00	0.4
			eS	08	15.00	
ETER	2.26	111	eP	08	39.00	
			eS	08	25.40	6.4X
			eS	08	53.60	
CAF	2.30	39	Pn	08	19.50	-0.2
			Pg	08	25.90	
			Sg	08	54.50	
EROD	2.35	173	eP	08	22.00	1.6
			eS	08	46.40	
RJF	2.40	26	Pn	08	21.10	0.1
			Pg	08	27.60	
			Sg	08	59.20	
ETOR	2.81	214	eP	08	25.60	-1.4
LSF	3.27	19	Pg	08	44.00	10.6X
			Sg	09	26.50	
MFF	3.44	358	Pn	08	34.80	-1.1
			Pg	08	46.70	
TCF	3.49	26	Pn	08	31.80	
			Pg	08	36.90	0.3
			Pg	08	48.20	
			Sg	09	34.20	
MAF	3.56	30	Pg	08	49.60	12.1X
			Sg	09	36.10	
BGF	3.95	30	Pn	08	57.10	14.1X
			Sg	09	47.60	
AVF	4.33	32	Pn	09	05.00	16.5X
			Sg	09	59.40	
SMF	4.41	37	Pg	09	06.60	16.9X
			Sg	10	02.60	
SSF	4.61	31	Pg	09	08.90	16.4X
			Sg	10	07.70	

S.D. = 1.1 on 9 of 17 obs.

? OCT 16, 1990 21h 12m 39.05 ± 1.28s
 16.945 S ± 37.8km 168.124 E ± 43.2km
 DEPTH = 225.0 ± 15.7 km
 4.7mb (1 obs.)
 VANUATU ISLANDS (186)

BKM	0.73	171	iPd	13	10.30	0.1
			iS	13	35.80	
PVC	0.81	167	iP	13	10.50	-0.1
			iS	13	37.00	
DZM	5.34	197	iPd	13	59.00	0.0
			iS	15	05.00	
ASPA	32.73	253	iPc	18	52.90	0.2
			0.7s	13.30nm		4.7mb
SQTA	144.30	333	iPKPd	31	47.20	-2.7
			0.5s	5.70nm		
CDF	144.93	338	ePKP	31	49.00	-1.8
			0.8s	10.75nm		
LOR	147.09	340	ePKP	31	54.80	0.5
			0.6s	3.15nm		
GRR	147.37	346	ePKP	31	55.70	1.0
SSF	147.39	340	ePKP	31	56.00	1.2
			0.7s	4.40nm		
LPL	147.54	335	ePKP	32	00.20	4.8X
			0.6s	1.80nm		
LPG	147.55	335	ePKP	32	00.40	4.9X
			0.8s	4.05nm		
LPF	147.75	346	ePKP	31	56.90	1.6
			0.5s	3.65nm		
MFF	148.87	344	ePKP	31	59.60	2.5X
			0.5s	2.90nm		

S.D. = 1.6 on 10 of 13 obs.

% OCT 16, 1990 21h 22m 05.45 ± 0.87s
 1.025 S ± 5.5km 78.376 W ± 22.6km
 DEPTH = 10.0km (geophysicist)
 ECUADOR (107)

VC1	0.38	356	iP+	22	13.80	0.3
			iS	22	17.60	
TUNG	0.40	190	P	22	13.70	0.0
			S	22	19.20	
QUR	0.86	350	P+	22	22.20	-0.1
YANA	0.93	348	P+	22	23.30	-0.1
			S	22	36.00	
CAYA	1.17	20	P	22	27.50	-0.1
			S	22	44.00	
COTA	1.35	2	eP	22	30.80	0.0
			eS	22	50.00	

S.D. = 0.2 on 6 of 6 obs.

& OCT 16, 1990 21h 38m 56.43s
 60.352 N 152.348 W
 DEPTH = 87.9km
 SOUTHERN ALASKA (2)
 <AGS-P>.

RED	0.22	288	eP	39	08.97	1.0
RDT	0.22	353	iP	39	08.92	1.0
			eS	39	18.94	
RSO	0.23	299	eP	39	09.31	1.2
			eS	39	19.16	
NNL	0.61	120	iP	39	12.74	0.6
NKA	0.67	54	eP	39	13.88	1.2
HOM	0.78	153	eP	39	13.79	0.0
			eS	39	27.57	
OPT	0.83	213	iP	39	13.84	-0.5
			eS	39	27.54	
CKL	0.85	0	iP	39	13.81	-0.9
			eS	39	27.34	
BGL	0.91	359	iP	39	14.67	-0.7
CRP	0.92	6	eP	39	14.87	-0.7
BRLK	0.94	128	eP	39	14.74	-0.9
XLV	0.95	160	eP	39	15.04	-0.7
CNPM	1.00	145	eP	39	15.72	-0.6
			eS	39	30.67	
PDB	1.08	239	iP	39	15.99	-1.3
			eS	39	30.24	
AUE	1.12	208	eP	39	16.47	-1.2
AUH	1.14	210	eP	39	17.25	-0.7
AUI	1.16	209	eP	39	17.01	-1.1
SUA	1.36	34	eP	39	20.31	-0.6
			eS	39	38.81	
SEW	1.47	99	eP	39	20.69	-1.3
MCNL	1.54	222	eP	39	21.72	-1.3
CDD	1.57	205	eP	39	22.14	-1.3
PMS	1.63	56	eP	39	23.77	-0.5
SKT	1.68	13	eP	39	23.45	-1.4
PWA	1.77	42	eP	39	25.79	-0.3
SVW	1.78	297	eP	39	23.94	-2.3
PLRM	2.00	50	eP	39	26.38	-2.7
GHO	2.19	48	eP	39	30.27	-1.5
CUT	2.29	25	eP	39	31.74	-1.3
KNIM	2.29	88	eP	39	29.87	-3.2
MTU	2.38	97	eP	39	32.03	-2.2
SML	2.44	51	eP	39	32.95	-2.1
GLI	2.64	76	eP	39	35.02	-2.8
VZW	2.94	74	eP	39	39.14	-2.8
KLU	3.34	67	eP	39	44.40	-3.1

34 obs. associated

& OCT 16, 1990 21h 52m 13.61s
 59.303 N 153.543 W
 DEPTH = 111.6km
 SOUTHERN ALASKA (2)
 <AGS-P>.

AUI	0.07	61	iP	52	28.51	0.9
AUH	0.08	40	eP	52	28.77	1.0
AUE	0.10	57	eP	52	28.69	1.1
CDD	0.38	188	iP	52	29.26	-0.9
			eS	52	41.61	
OPT	0.39	24	iP	52	29.64	-0.6
			eS	52	41.25	
MCNL	0.42	254	iP	52	29.51	-0.9
			eS	52	41.43	
PDB	0.59	326	iP	52	30.56	-0.9
			eS	52	43.72	
BGM	0.87	277	eP	52	32.88	-1.1
XLV	0.94	80	eP	52	33.78	-0.9
HOM	1.03	69	eP	52	34.90	-0.6
			eS	52	50.60	
RED	1.19	19	iP	52	36.23	-1.1
CNPM	1.20	78	eP	52	36.31	-1.1
			eS	52	54.67	
RSO	1.23	19	eP	52	36.92	-1.0
NNL	1.36	56	eP	52	39.26	0.0
RDT	1.40	24	eP	52	38.60	-1.1
			eS	52	57.72	
BRLK	1.43	70	eP	52	38.64	-1.5
CKL	1.99	17	iP	52	45.99	-1.2
BGL	2.05	16	iP	52	46.88	-1.0
CRP	2.09	19	eP	52	47.66	-0.8
SEW	2.23	67	eP	52	48.79	-1.2
SUA	2.58	31	eP	52	53.68	-1.1
PMS	2.78	44	eP	52	55.98	-1.5
SKT	2.86	19	eP	52	56.69	-1.9

MTU 3.07 75 eP 52 59.48 -1.8
KNIM 3.11 68 eP 52 59.39 -2.5
GLI 3.60 61 eP 53 05.25 -3.2
SML 3.60 43 eP 53 05.35 -3.1
27 obs. associated

OCT 16, 1990 21h 55m 31.88±0.39s
24.092 S ± 3.4km 66.705 W ± 4.7km
DEPTH = 192.6 ± 4.3 km
4.9mb (8 obs.)

SALTA PROVINCE, ARGENTINA (129)

ANT 3.42 276 iPc 56 25.90 -0.8
iS 57 02.50
CYA 4.41 170 iPc 56 40.50 1.3
CCH 6.70 5 P 57 09.80 0.6
CNCB 7.34 350 iPc 57 18.50 0.4
S 58 36.00
RTLL 7.38 192 ePc 57 17.30 -0.7
RTCB 7.60 194 ePc 57 21.00 0.1
ZON 7.63 193 eP 57 21.00 -0.3
eS 58 46.00
LPB 7.63 350 P 57 23.00 1.2
0.9s 218.49nm 5.4mb
S 58 39.00
ZOBO 7.90 350 iPc 57 24.00 -1.4
RTCV 7.91 191 e(P) 57 25.00 0.0
RTBS 7.92 197 e(P) 57 25.70 0.6
ARE 8.82 329 eP 57 32.00 -5.1X
iS 59 06.80
MDZ 8.96 192 eP 57 38.30 -0.3
e 59 16.10
e 59 35.40
SIV 9.64 34 P 57 47.20 -0.3
PEL 9.67 200 eP 57 47.00 -0.9
i 29 06.20
PPD 14.32 85 eP 58 47.70 0.5
e 58 50.90
VAO 18.13 91 iPc 59 32.10 -0.2
i 59 40.50
i 59 47.10
i 59 53.00
e 02 54.40
BMA 20.74 91 eP 59 59.80 0.9
e 00 02.70
e 00 10.90
JFO 21.66 88 eP 00 09.00 1.1
SOB1 28.74 63 eP 01 12.00 -1.6
e 01 24.70
TUL 65.71 334 iP 05 56.50 -1.2
1.0s 26.00nm 5.0mb
SIO 65.77 334 eP 05 57.00 -1.1
SPA 66.05 180 iPd 06 00.70 0.9
0.9s 21.82nm 4.9mb
LIC 67.21 72 P 06 06.70 -0.9
KIC 67.52 72 P 06 08.90 -0.7
0.5s 8.50nm 4.7mb
LKO 68.37 68 P 06 13.46 -1.4
ANMO 69.77 326 ePd 06 22.80 -0.4
epP 07 16.90 231kmX
BAR 73.88 318 eP 06 48.00 0.6
PLM 74.46 318 eP 06 51.00 0.1
TPC 74.48 319 eP 06 51.00 0.1
RVR 75.21 318 eP 06 55.00 0.1
GSC 75.76 320 eP 06 59.00 0.9
SBB 75.95 319 eP 06 59.00 -0.2
CLC 76.58 320 eP 07 03.00 0.4
ISA 77.00 319 eP 07 06.00 1.1
FRI 78.63 319 e(P) 07 15.80 2.1
PRI 78.64 318 eP 07 14.60 0.6
LLA 79.13 318 eP 07 17.00 0.5
PRS 79.20 318 eP 07 17.30 0.4
CMB 79.72 320 eP 07 19.90 0.2
MHC 80.02 319 eP 07 22.00 0.6
LRM 81.04 330 eP 07 27.20 0.6
MAW 81.27 163 iP 07 26.60 -0.6
ORV 81.38 320 eP 07 28.70 0.5
WDC 82.65 321 eP 07 33.50 -1.3
SES 83.89 333 ePd 07 40.30 -0.6
FFC 84.14 340 eP 07 41.00 -1.0
1.2s 32.00nm 4.9mb
NEW 85.00 329 P 07 45.40 -1.1
PNT 86.92 328 eP 07 56.00 0.2
0.9s 16.00nm 4.9mb
BCAO 87.45 84 iPd 08 00.00 0.8
0.5s 5.00nm 4.6mb
YKA 94.30 340 eP 08 29.60 -0.2

ASPA 0.6s 6.40nm 5.0mb
128.49 204 iPKPc 14 17.10 -0.7
0.6s 10.40nm
WB5 131.71 207 ePKP 14 24.10 0.1
GBA 144.59 101 PKP 14 47.00 -0.6
MAT 155.25 306 ePKP 15 12.00 8.8X
CHG 165.65 109 ePKP 15 16.00 1.3
S.D. = 0.9 on 54 of 56 obs.

OCT 16, 1990 22h 36m 46.50±0.74s
43.882 N ± 4.5km 8.611 E ± 6.1km
DEPTH = 10.0km (geophysicist)
CORSICA (380)
ML 2.4 (GEN), 2.1 (LDG).

FIN 0.44 319 P 36 55.53 0.1
S 37 00.76
IMI 0.52 273 P 36 56.96 -0.1
S 37 03.73
PCP 0.66 356 P 36 59.73 0.0
S 37 08.51
ROB 0.67 308 P 36 59.63 -0.3
S 37 08.34
SBF 0.85 269 Pn 37 03.40 0.5
Sn 37 14.40
ENR 0.93 292 P 37 04.20 0.0
S 37 15.89
STV 1.00 292 P 37 05.47 0.0
S 37 17.78
DOI 1.16 303 P 37 08.50 0.2
eSn 37 23.00
PZZ 1.25 300 P 37 09.99 0.1
S 37 25.53
PGF 1.36 168 Pn 37 11.70 0.1
Sn 37 27.70
FRF 1.46 258 Pn 37 12.60 -0.3
Sg 37 29.00
RSP 1.60 323 P 37 14.80 -0.2
S 37 34.04
LRG 1.69 256 Pn 37 16.00 -0.1
Sn 37 34.80
S.D. = 0.2 on 13 of 13 obs.

? OCT 16, 1990 22h 50m 00.55±1.82s
10.248 S ± 33.3km 161.683 E ± 21.3km
DEPTH = 94.2 ± 27.6 km
4.5mb (1 obs.)

SOLOMON ISLANDS (193)

HNR 1.89 295 eP 50 32.00 0.0
eS 50 57.00
BKM 9.74 140 iPd 52 19.70 0.0
DZM 12.61 159 iPd 52 57.90 0.0
iS 55 10.50
CTA 17.80 235 iPc 54 03.80 0.0
0.9s 26.89nm 4.5mb
WB5 28.02 247 eP 55 44.90 0.0
S.D. = 0.0 on 5 of 5 obs.

OCT 16, 1990 23h 14m 09.44±0.49s
28.132 S ± 5.5km 67.402 W ± 8.7km
DEPTH = 151.2 ± 8.6 km
4.9mb (2 obs.)

LA RIOJA PROVINCE, ARGENTINA (13B)

CYA 1.45 103 iPc 14 38.40 -0.5
S 14 52.80
RTLL 3.32 196 eP 15 02.20 0.6
RTCB 3.56 200 iPc 15 05.50 0.8
S 15 45.20
ZON 3.58 198 iPc 15 07.00 2.1
eS 15 47.00
RTCV 3.84 195 ePc 15 09.00 0.6
MDZ 4.90 194 iP 15 23.00 0.6
i 16 02.60
ANT 5.18 328 eP 15 26.20 0.2
JACH 5.31 211 eP 15 28.70 0.8
PEL 5.74 209 iPd 15 33.00 -0.6
iS 16 36.70
ROCH 5.74 212 eP 15 33.00 -0.8
i 16 37.00
FCH 5.74 205 eP 15 35.00 1.0
i 16 40.00
SAN 6.00 207 eP 15 37.50 0.4
PCH 6.09 205 eP 15 38.90 0.5
TACH 6.29 208 eP 15 39.50 -1.5
LCCH 6.42 213 eP 15 40.50 -2.2

LNV 6.75 210 iPc 15 44.10 -3.1
CCH 10.76 6 P 16 47.50 6.7X
CNCB 11.28 357 P 16 48.00 0.2
LPB 11.56 357 P 16 53.00 1.6
ZOBO 11.82 357 P 16 55.00 0.0
SIV 13.43 27 P 17 13.20 -1.9
PPD 15.79 71 eP 17 44.80 0.1
VAO 19.12 79 eP 18 22.20 -1.1
e 18 25.90
e 18 58.70

JFO 22.73 79 eP 19 00.50 1.3
SPA 62.03 180 iPd 24 16.40 0.7
0.9s 21.36nm 5.1mb
LIC 69.11 71 P 25 01.30 0.0
KIC 69.42 71 P 25 03.30 0.0
0.4s 5.00nm 4.7mb
LKO 70.48 67 P 25 09.64 -0.1
ASPA 124.56 204 iPKPc 32 53.50 0.7
0.5s 7.30nm
S.D. = 1.2 on 28 of 29 obs.

* OCT 16, 1990 23h 28m 13.65±1.26s
1.663 S ± 11.0km 134.502 E ± 19.6km
DEPTH = 33.0km (normol)
4.5mb (3 obs.)

WEST IRIAN REGION (196)

AAI 6.61 252 eP 29 52.00 0.9
eS 30 55.00
KNA 15.10 202 eP 31 46.00 -0.3
WB5 18.11 180 eP 32 24.70 0.3
eS 35 37.50
ASPA 21.88 181 eP 33 05.80 0.1
0.6s 16.30nm 4.6mb
eS 37 02.20
SSE 34.95 340 eP 35 10.00 5.3X
CHG 40.44 302 eP 35 50.90 -0.1
BJI 44.76 340 eP 36 27.00 1.1
1.0s 8.00nm 4.5mb
GBA 58.56 287 P 38 08.00 -1.9
0.8s 2.30nm 4.3mb
CNCB 151.21 130 PKP 48 10.20 9.5X
LPB 151.28 130 (PKP) 48 10.00 9.3X
ZOBO 151.42 129 PKP 48 10.00 8.9X
S.D. = 1.2 on 7 of 11 obs.

* OCT 16, 1990 23h 38m 44.16±0.39s
29.131 S ± 10.5km 177.391 W ± 12.2km
DEPTH = 33.0km (normol)
5.3mb (7 obs.)

KERMADEC ISLANDS (178)

PUZ 9.63 201 eP 41 01.00 -2.5
eS 42 51.00
MRW 13.69 206 eP 42 01.00 2.9
eS 44 24.00
THZ 14.87 209 eP 42 13.60 -0.1
S 44 50.20
KHZ 15.15 207 eP 42 14.50 -2.8
LTZ 15.97 209 eP 42 25.00 -2.9
DZM 16.18 292 iPc 42 37.70 7.0X
CAN 29.00 249 eP 44 46.00 2.9
BWA 29.45 251 eP 44 49.00 1.8
CTA 34.14 277 iPc 45 29.20 0.8
0.8s 48.51nm 5.5mb
ASPA 43.72 265 iPd 46 47.30 -0.9
0.6s 22.50nm 5.1mb
WB5 44.60 271 iPc 46 55.00 -0.3
SBA 49.34 184 eP 47 37.40 5.7X
MBL 56.81 263 iPc 48 26.20 -1.7
0.7s 39.00nm 5.5mb
NANU 60.02 259 eP 48 49.00 -1.2
0.4s 12.00nm 5.4mb
SPA 61.03 180 iPc 48 59.60 2.8
1.0s 30.00nm 5.4mb
MAW 73.68 200 iPc 50 18.70 2.8
MAT 77.51 325 eP 50 36.00 -2.1
0.8s 8.21nm 4.8mb
PRS 83.73 42 eP 51 11.30 0.2
PRI 84.02 43 eP 51 13.30 0.6
PLM 84.53 47 eP 51 15.00 -0.4
SBB 84.79 46 eP 51 16.00 -0.5
ISA 85.03 44 eP 51 18.00 0.3
FRI 85.16 43 eP 51 17.80 -0.4
CMB 85.47 42 eP 51 19.40 -0.4
TPC 85.54 47 eP 51 21.00 0.7

16d 23h

CLC	85.66	45	eP	51	21.00	0.1
GSC	85.82	46	eP	51	22.00	0.3
ORV	85.86	40	eP	51	21.60	-0.1
WDC	86.00	39	eP	51	22.20	-0.1
TNP	87.37	43	ePd	51	28.20	-1.1
ANMO	92.37	51	P	51	52.50	-0.3
BJI	92.40	315	eP	51	53.00	0.5
	1.0s	11.00nm			5.2mb	
CHG	93.66	289	eP	52	00.30	1.5
PPD	107.30	128	(Pd) f	52	57.00	-3.3X
QUE	124.77	288	iPKP	57	43.40	0.7
BUL	124.96	210	iPKPd	57	44.00	0.8
	1.0s	8.75nm				
MAIO	132.19	294	ePKP	57	57.00	0.5
SUF	143.07	342	ePKP	58	10.00	-5.6X
NUR	145.30	341	iPKP	58	17.60	-1.8
	0.9s	86.20nm				
RGS	145.72	354	ePKP	58	18.50	-1.6
NB2	147.58	352	PKP	58	23.30	0.1
	0.9s	16.20nm				
UPP	147.63	346	iPKP	58	24.10	0.9
HFS	148.10	350	ePKP	58	22.00	-2.0
	0.8s	19.90nm				
BCAO	151.17	215	iPKPc	58	30.70	0.5
	0.5s	38.00nm				
		ic	58	36.80		
BBTK	153.07	301	ePKP	58	40.50	7.7X
KSP	155.99	338	ePKP	58	45.00	9.7X
	0.8s	20.00nm				
		id	59	02.30		
KIC	156.31	162	PKP	58	38.40	1.1
CLL	156.51	343	ePKP	58	46.00	9.6X
		i	59	03.80		
KHC	158.33	340	ePKP	58	39.50	0.7
		e	59	13.10		

S.D. = 1.5 on 42 of 49 obs.

* OCT 16, 1990 23h 55m 57.90 ± 1.20s
 34.517 N ± 11.4km 26.886 E ± 11.0km
 DEPTH = 33.0km (normal)

CRETE (370)
 MD 3.8 (ATH).

KAP	1.06	13	iPc	56	15.50	-0.9
NPS	1.28	306	eP	56	20.00	0.3
ARG	1.98	31	eP	56	29.00	-0.7
KSL	2.72	53	eP	56	42.00	1.8
ZNT	7.18	106	eP	57	43.00	-0.3
		eS	58	59.00		
JVI	7.55	108	eP	57	48.00	-0.4
PRNI	8.02	119	eP	57	55.00	0.0

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

% OCT 17, 1990 00h 51m 03.52 ± 3.94s
 38.963 N ± 12.3km 15.632 E ± 19.6km
 DEPTH = 102.8 ± 47.4 km

SICILY (398)

CZI	0.47	57	P	51	19.70	0.2
		eS	51	35.00		
ATN	0.81	189	P	51	22.50	0.0
		eSn	51	40.00		
TDS	0.88	38	Pd	51	23.10	-0.1
ROI	0.95	50	P	51	23.50	-0.4
		eS	51	39.60		
CSI	0.96	32	P	51	24.10	0.1
		eS	51	38.60		
MMN	0.97	17	P	51	23.80	-0.2
		eS	51	40.20		
MGR	1.18	357	P	51	26.50	0.1
ORI	1.27	30	P	51	28.00	0.5
SGO	1.61	351	P	51	31.50	-0.2

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

? OCT 17, 1990 01h 32m 23.53 ± 1.41s
 1.155 S ± 21.6km 128.957 E ± 32.8km
 DEPTH = 33.0km (normal)
 4.8mb (2 obs.)

HALMAHERA (267)

KNA	14.50	181	eP	35	48.50	0.1
WB5	19.35	164	eP	36	48.80	-0.6
		eS	40	21.50		
OIS	21.91	152	iPc	37	16.10	0.2
ASPA	22.89	168	eP	37	26.30	0.8
	0.9s	40.20nm			4.9mb	
		eS	41	38.10		

STK 32.81 160 iPd 38 56.10 0.0
 0.8s 9.00nm 4.7mb
 CHG 35.55 305 eP 39 19.90 0.0
 S.D. = 0.6 on 6 of 6 obs.

OCT 17, 1990 02h 00m 53.23 ± 0.59s
 37.049 N ± 5.2km 34.003 E ± 4.5km
 DEPTH = 29.4 ± 5.5 km
 4.3mb (12 obs.)

TURKEY (366)

FAM	2.05	180	eP	01	26.70	0.4
CSS	2.15	195	eP	01	27.00	-0.8
PPCY	2.54	212	eP	01	35.20	1.8
GAZ	2.57	86	iPn	01	32.90	-0.8
BCK	2.75	280	iPn	01	36.50	0.1
BBTK	2.95	341	ePn	01	40.00	0.7
		e	01	48.00		
		eS	02	41.00		
ALT	3.67	304	ePn	01	48.90	-0.5
KHL	3.77	291	ePn	01	53.00	2.1
HRI	4.03	159	eP	01	53.00	-1.6
KAS	4.32	358	eP	02	08.00	9.4X
IZI	4.83	314	ePn	01	58.00	-7.9X
ZNT	4.87	170	eP	02	06.00	-0.4
		eS	03	00.00		
DST	4.94	303	iP	02	07.00	-0.4
IZM	5.51	286	eP	02	16.00	0.5
PRNI	6.74	173	eP	02	33.00	0.3
FVI	18.42	308	P	05	18.00	10.1X
CTI	18.94	305	P	05	13.00	-1.4
PRU	19.07	319	eP	05	16.00	0.2
KHC	19.12	316	eP	05	17.50	1.0
WATA	19.47	309	eP	05	20.00	-0.7
	1.1s	11.60nm			4.1mb	
		e	05	26.00		
WET	19.52	315	iPc	05	20.50	-0.6
SQTA	19.66	308	iP	05	21.80	-0.9
BRG	19.90	320	e(P)	05	29.50	4.5X
BOB	20.05	300	P	05	18.00	-8.8X
MDI	20.14	303	P	05	16.50	-11.1X
MAIO	20.45	84	eP	05	32.00	1.0
GRF	20.73	315	ePc	05	33.50	-0.3
		e	05	39.20		
VAI	20.79	303	P	05	31.00	-3.4X
MOX	21.00	317	e(P)	05	40.00	3.6X
		eSg	15	22.00		
SBF	21.28	297	eP	05	43.00	3.6X
	0.9s	31.10nm			4.7mb	
LPG	22.07	301	eP	05	48.90	1.3
	0.9s	9.85nm			4.2mb	
LPL	22.09	301	eP	05	49.00	1.3
	0.8s	5.35nm			4.0mb	
CDF	22.56	309	eP	05	50.60	-1.6
	0.7s	6.60nm			4.2mb	
BSF	22.68	307	eP	05	52.80	-0.6
	0.7s	6.60nm			4.2mb	
HAU	23.01	307	eP	05	56.20	-0.4
	0.8s	5.35nm			4.1mb	
LBF	24.28	304	eP	06	08.90	0.0
	1.0s	8.00nm			4.2mb	
SMF	24.30	303	eP	06	09.20	0.1
	0.9s	16.40nm			4.6mb	
LOR	24.43	304	eP	06	09.40	-0.9
	0.9s	9.00nm			4.3mb	
SSF	24.62	304	eP	06	11.40	-0.7
	1.1s	12.20nm			4.4mb	
AVF	24.66	303	eP	06	12.50	0.0
	0.7s	7.15nm			4.4mb	
DOU	24.80	311	Pc	06	19.80	6.0X
GKN	43.21	87	P	08	53.40	-0.1
DMN	43.75	87	P	08	59.40	1.3
KKN	43.81	87	P	08	59.30	0.8
PKI	44.01	87	P	09	01.00	0.7
GUN	44.24	86	P	09	01.50	-0.6

S.D. = 1.0 on 36 of 46 obs.

% OCT 17, 1990 02h 56m 20.69 ± 0.72s
 45.951 N ± 7.3km 26.874 E ± 8.7km
 DEPTH = 27.4 ± 8.2 km

ROMANIA (358)

VRI	0.13	232	iPc	56	26.00	0.0
CLI	0.66	25	iPc	56	34.00	0.3
PTT	1.04	341	eP	56	39.00	-0.5
CFR	1.18	130	iPd	56	41.50	0.1
CMP	1.46	243	ePc	57	04.00	18.6X

TLB 1.59 149 ePd 56 47.00 -0.3
 COZ 1.88 251 eP 56 52.00 0.2
 S.D. = 0.5 on 6 of 7 obs.

% OCT 17, 1990 05h 21m 52.51 ± 0.59s
 40.724 N ± 5.0km 29.036 E ± 4.8km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 2.3 (ISK).

YLV	0.30	121	iPg	21	58.10	-0.7
GBZT	0.32	78	ePg	21	59.50	0.4
		iSg	22	04.20		
ISK	0.34	3	ePg	21	59.80	0.2
HRT	0.49	78	ePg	22	02.60	0.1
		eSg	22	09.10		
IZI	0.51	139	iPg	22	02.60	-0.3
		iSg	22	09.60		
CTT	0.62	313	ePg	22	04.60	-0.5
		eSg	22	12.60		
KCT	0.70	228	iPn	22	06.10	-0.3
DST	1.16	196	iPn	22	15.20	1.0

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

? OCT 17, 1990 06h 36m 36.05 ± 6.44s
 33.241 S ± 16.4km 72.088 W ± 53.1km
 DEPTH = 33.0km (normal)

OFF COAST OF CENTRAL CHILE (134)

LCCH	0.49	118	iPd	36	45.50	-1.1
		iS	36	52.50		
LNv	0.91	142	iPc	36	52.50	0.1
		iS	37	04.80		
ROCH	0.94	74	iPc	36	52.30	-0.9
		e	37	05.00		
PEL	1.18	86	iPd	36	56.40	0.0
		iS	37	13.00		
SAN	1.21	100	ePd	36	57.50	0.7
		eS	37	13.00		
PCH	1.37	106	eP	37	00.00	0.9
		i	37	18.70		
JACH	1.38	66	eP	36	59.50	0.3

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

* OCT 17, 1990 07h 47m 34.44 ± 0.92s
 41.216 N ± 6.6km 20.579 E ± 8.8km
 DEPTH = 5.0km (geophysicist)

ALBANIA (391)
 ML 3.5 (SKO).

PHP	0.48	348	iPg	47	42.00	-2.1
TIR	0.55	284	ePg	47	45.50	0.0
KBN	0.62	163	ePg	47	45.30	-1.5
BERA	0.70	223	ePg	47	48.00	-0.4
KKS	0.87	352	ePg	47	56.00	4.4X
SKO	0.99	40	iPg	47	57.50	3.8X
		i	47	58.30		
		iSg	48	12.70		
TPE	1.02	205	ePg	47	54.00	-0.1
SDA	1.14	315	ePg	47	57.80	1.6
BCI	1.21	342	ePn	48	02.60	5.2X
SRN	1.41	198	ePn	48	01.90	1.2
VAY	1.50	85	ePn	48	03.40	1.3

S.D. = 1.6 on 8 of 11 obs.

OCT 17, 1990 07h 54m 01.56 ± 0.36s
 4.240 S ± 5.9km 142.221 E ± 7.9km
 DEPTH = 123.6km (2 depth phases)
 4.9mb (4 obs.)

PAPUA NEW GUINEA (202)

MNDI	2.38	143	eP	54	42.00	1.3
			eS	55	15.00	
PMG	7.10	137	iPd	55	44.00	-0.2
	0.9s	184.87nm				5.6mb
CTA	16.23	166	iPc	57	46.00	2.1
	1.4s	55.81nm				4.6mb
QIS	16.42	189	iP	57	46.70	0.6
			e	00	45.00	
			e	02	36.00	
WB5	17.33	206	iPd	57	55.00	-2.3
			iPcP	01	10.00	
			eS	03	25.00	
			eScP	04	23.60	
KNA	17.49	228	iPd	57	58.40	-0.8
GUMQ	17.91	8	eP	58	04.00	-0.4
PJG	17.91	8	eP	58	05.00	0.6

ASPA	20.92	202	iPc	58	35.90	-0.1	
	0.8s	64.00nm			5.1mb		
		IPP		59	02.60		
		eS		02	01.70		
OLP	22.30	175	eP	58	50.00	0.4	
		e		59	15.00	122km	
RMO	22.99	165	eP	58	57.00	0.7	
MBL	27.49	230	eP	59	38.00	-0.3	
DZM	29.42	129	iPd	59	55.00	-0.7	
BWA	30.58	170	eP	00	07.00	1.3	
CAN	31.56	169	eP	00	15.00	0.7	
MRWA	35.14	222	eP	00	45.00	-0.2	
	0.4s	6.00nm			4.8mb		
TCW	46.69	147	P	02	19.50	-0.1	
MRW	46.94	146	P	02	21.00	-0.6	
MNG	46.97	145	P	02	21.60	-0.2	
PUZ	47.03	141	eP	02	22.00	-0.4	
MTW	47.34	146	P	02	23.30	-1.4	
PGZ	47.42	145	P	02	25.10	-0.2	
BLW	47.46	146	P	02	24.50	-1.2	
GUN	62.94	304	P	04	18.20	0.5	
PKI	63.21	304	P	04	19.60	0.1	
KKN	63.39	304	P	04	20.80	0.2	
DMN	63.47	304	P	04	21.20	0.0	
GKN	64.00	304	P	04	24.20	-0.3	
KOD	66.06	283	eP	04	38.60	0.5	
GBA	66.68	287	P	04	40.00	-1.6	
FBA	85.46	24	P	06	25.00	-1.2	
		pP		06	57.20	125km	
CNCB	143.56	126	PKP	13	23.00	-1.9	
LPB	143.61	125	PKP	13	24.00	-0.9	
ZOBO	143.73	125	PKP	13	23.00	-2.3	
CCH	144.71	128	PKP	13	26.80	0.2	
KIC	147.04	275	PKPd	13	31.72	1.6	
	0.3s	3.00nm					
TIC	147.31	276	PKPd	13	32.82	2.2	
	0.9s	0.14nm					
LIC	147.33	275	PKPd	13	32.74	2.1	
LKO	147.63	281	PKPc	13	33.22	2.1	
	0.4s	23.00nm					
SIV	149.42	132	iPKPc	13	39.20	5.3X	
		i		14	10.80		
PPD	150.72	154	ePKP	13	41.70	6.0X	
		e		14	14.00		
		e		14	23.90		
VAO	151.48	162	ePKP	13	20.60	-16.2X	
		e		13	44.10		
		e		14	16.10		
BMA	152.51	167	(PKP)	13	33.00	-5.3X	
	S.D. = 1.2	on 39 of 43 obs.					
? OCT 17, 1990 08h 45m 43.49±11.07s							
44.722 N ± 56.8km 5.735 E ± 68.6km							
DEPTH = 10.0km (geophysicist)							
FRANCE (538)							
ML 2.5 (LDG).							
FRF	1.33	150	Pg	46	08.20	0.1	
		Sg		46	24.30		
LRG	1.34	160	Pg	46	08.30	0.1	
		Sg		46	24.60		
SBF	1.49	125	Pg	46	11.40	1.0	
		Sg		46	30.50		
LMR	1.50	158	Pg	46	10.50	0.1	
		Sg		46	28.10		
PGF	3.22	131	Pn	46	33.80	-1.3	
	S.D. = 1.2	on 5 of 5 obs.					
? OCT 17, 1990 10h 03m 59.21±0.85s							
39.131 N ± 6.9km 27.520 E ± 8.9km							
DEPTH = 10.0km (geophysicist)							
TURKEY (366)							
MD 2.5 (ISK).							
IZM	0.76	195	ePg	04	14.00	-0.1	
DST	0.98	61	iPg	04	18.10	0.2	
		eSg		04	30.10		
EZN	1.16	307	ePn	04	21.00	0.2	
EDC	1.24	12	ePn	04	22.00	-0.3	
BNT	1.26	14	ePn	04	22.60	0.0	
	S.D. = 0.3	on 5 of 5 obs.					
? OCT 17, 1990 10h 11m 26.23±10.91s							
40.019 N ± 88.6km 29.255 E ± 43.7km							
DEPTH = 10.0km (geophysicist)							
TURKEY (366)							
MD 2.4 (ISK).							

IZI	0.36	28	iPg	11	33.50	-0.1	
		iSg		11	44.50		
YLV	0.55	9	iPn	11	37.50	0.0	
KCT	0.73	289	ePn	11	40.50	0.0	
HRT	0.86	21	ePn	11	43.00	0.2	
	S.D. = 0.2	on 4 of 4 obs.					
OCT 17, 1990 10h 19m 28.78±0.51s							
44.277 N ± 5.2km 7.536 E ± 3.4km							
DEPTH = 10.0km (geophysicist)							
NORTHERN ITALY (545)							
ML 2.1 (LDG), 2.0 (GEN).							
ENR	0.10	239	P	19	30.63	-0.9	
		S		19	32.20		
STV	0.16	258	P	19	32.20	-0.2	
		S		19	34.27		
ROB	0.24	86	P	19	34.13	0.2	
		S		19	39.44		
PZZ	0.39	306	P	19	36.76	0.0	
		S		19	42.34		
SBF	0.42	190	Pg	19	37.00	-0.4	
		Sg		19	43.50		
IMI	0.45	145	P	19	37.92	0.0	
		S		19	43.77		
FIN	0.49	98	P	19	38.28	-0.4	
		S		19	45.63		
PCP	0.77	70	P	19	44.14	0.3	
		S		19	55.16		
FRF	0.96	222	Pg	19	47.70	0.6	
		Sg		20	01.30		
LRG	1.18	226	Pg	19	51.10	0.3	
		Sg		20	07.70		
LMR	1.20	219	Pg	19	51.70	0.6	
		Sg		20	08.60		
	S.D. = 0.5	on 11 of 11 obs.					
? OCT 17, 1990 11h 04m 35.71±1.04s							
39.205 N ± 8.6km 27.579 E ± 16.0km							
DEPTH = 10.0km (geophysicist)							
TURKEY (366)							
MD 2.5 (ISK).							
IZM	0.84	197	ePg	04	52.00	0.0	
		eSg		05	04.40		
DST	0.91	63	iPg	04	53.10	0.0	
		eSg		05	05.10		
EDC	1.16	11	ePn	04	57.80	0.4	
BNT	1.18	13	ePn	04	57.30	-0.4	
	S.D. = 0.6	on 4 of 4 obs.					
& OCT 17, 1990 11h 13m 31.57s							
58.108 N 154.847 W							
DEPTH = 65.0km							
ALASKA PENINSULA (12)							
<AGS-P>.							
CDD	1.04	37	iP	13	49.66	-1.0	
		eS		14	04.03		
MCNL	1.11	14	iP	13	50.67	-0.9	
		eS		14	05.47		
BGM	1.30	351	eP	13	53.18	-1.0	
KDC	1.31	105	eP	13	53.12	-1.0	
AUI	1.44	30	iP	13	54.84	-1.1	
AUH	1.46	30	iP	13	55.37	-0.9	
AUE	1.47	31	iP	13	55.56	-0.8	
PDB	1.72	11	iP	13	58.34	-1.5	
		eS		14	18.75		
OPT	1.76	28	iP	13	59.19	-1.3	
		eS		14	20.10		
XLV	2.11	49	eP	14	04.04	-1.3	
HOM	2.28	46	eP	14	06.16	-1.4	
CNPM	2.36	51	eP	14	06.53	-2.2	
RED	2.55	24	eP	14	09.77	-1.7	
RSO	2.59	24	iP	14	10.57	-1.6	
BRK	2.64	49	eP	14	10.24	-2.5	
NNL	2.67	42	eP	14	11.62	-1.4	
RDT	2.77	26	eP	14	12.40	-2.2	
CKL	3.35	21	eP	14	20.66	-2.1	
BGL	3.40	20	eP	14	21.43	-2.0	
SEW	3.43	52	eP	14	20.04	-3.6	
CRP	3.45	22	eP	14	21.93	-2.3	
	21 obs. associated						
OCT 17, 1990 11h 25m 03.50±0.52s							
43.236 N ± 4.8km 111.647 W ± 3.0km							
DEPTH = 5.0km (geophysicist)							

EASTERN IDAHO						(457)
ML 3.2 (BUT).						
CHOI	0.33	76	ePc	25	10.32	0.2
			S	25	14.56	
PINI	0.35	39	P	25	10.47	-0.1
			S	25	15.13	
ALPW	0.48	100	P	25	13.18	0.0
MUDI	0.56	47	P	25	14.66	-0.2
			S	25	22.78	
TPAW	0.57	63	P	25	14.67	-0.2
			S	25	22.72	
REDW	0.59	77	P	25	15.32	-0.1
GRAI	0.62	21	P	25	15.80	-0.1
PTI	0.64	236	eP	25	16.30	-0.1
SNOW	0.69	71	P	25	17.29	0.0
			S	25	26.99	
RAMW	0.83	38	P	25	19.44	-0.7
MOOW	0.83	52	P	25	19.34	-0.9
			S	25	30.14	
STEW	1.07	40	P	25	23.63	-0.7
PACW	1.08	51	P	25	24.09	-0.3
HPI	1.16	295	eP	25	24.30	-1.5
LTMT	1.33	346	eP	25	28.70	-0.1
BW06	1.60	106	eP	25	33.80	1.0
MCMT	1.81	332	iPnc	25	36.00	0.2
BGMT	2.02	352	ePn	25	39.70	0.9
MENT	2.42	11	ePn	25	47.10	2.6X
LRM	2.65	348	ePn	25	49.30	1.5
BUT	2.85	347	(P)	25	50.00	-0.7
			eSq	26	37.20	
SXM	2.93	6	ePn	25	53.70	1.9
CPI	3.44	282	ePn	25	58.80	0.0
S.D. = 0.8 on 22 of 23 obs.						

? OCT 17, 1990	11h	27m	27.11±	1.72s		
29.395 N ± 8.9km		142.618 E ± 31.4km				
DEPTH = 33.0km (normol)						
4.4mb (1 obs.)						
SOUTH OF HONSHU, JAPAN						(211)
KAKJ	7.10	344	P	29	12.10	0.9
			S	30	28.10	
IIDJ	7.25	328	P	29	17.30	3.8X
			S	30	37.90	
CHJJ	7.30	336	P	29	14.60	0.4
			S	30	32.50	
MAT	8.03	334	eP	29	24.00	-0.4
			eS	30	51.00	
MTMJ	8.23	332	P	29	28.30	1.1
NIJJ	8.39	340	P	29	28.30	-1.0
YAMJ	9.01	347	eP	29	36.90	-1.1
			eS	31	09.70	
BJI	24.11	303	eP	32	42.00	1.4
CHG	41.03	265	eP	35	08.30	-0.8
WB5	49.63	190	eP	36	18.20	0.7
GBA	61.95	270	Pd	37	45.30	-1.1
	0.4s		1.30nm		4.4mb	
S.D. = 1.1 on 10 of 11 obs.						

& OCT 17, 1990	11h	34m	03.50s			
60.389 N		152.449 W				
DEPTH = 96.1km						
SOUTHERN ALASKA						(2)
<AGS-P>.						
RED	0.16	281	eP	34	16.51	0.7
RSO	0.17	296	iP	34	16.90	0.9
			eS	34	27.80	
RDT	0.19	7	iP	34	16.67	0.8
			eS	34	27.37	
NNL	0.67	121	iP	34	20.74	0.2
NKA	0.70	59	iP	34	21.83	1.1
CKL	0.81	4	iP	34	21.35	-0.7
			eS	34	35.54	
OPT	0.84	208	iP	34	21.41	-0.8
			eS	34	36.10	
HOM	0.84	151	eP	34	21.70	-0.4
			eS	34	36.04	
BGL	0.08	2	iP	34	22.25	-0.5
CRP	0.89	9	iP	34	22.41	-0.5
			eS	34	37.00	
BRLK	1.00	128	eP	34	22.73	-1.3
			eS	34	37.86	
XLV	1.01	158	eP	34	23.21	-0.8
CNPM	1.06	144	eP	34	23.59	-1.0
			eS	34	38.93	

17d 11h

PDB 1.06 236 iP 34 23.35 -1.3
 AUE 1.13 205 eP 34 24.37 -1.0
 SUA 1.36 37 eP 34 28.19 -0.2
 SEW 1.52 100 eP 34 28.71 -1.5
 MCNL 1.54 219 eP 34 29.14 -1.3
 CDD 1.58 203 eP 34 29.45 -1.6
 PMS 1.66 58 eP 34 31.23 -0.7
 SKT 1.66 15 eP 34 31.02 -1.0
 SVW 1.72 296 eP 34 31.24 -1.5
 PLRM 2.02 52 eP 34 34.97 -1.7
 GHO 2.20 49 eP 34 37.68 -1.6
 CUT 2.28 26 eP 34 39.84 -0.3
 KNIM 2.34 89 eP 34 37.85 -3.2
 MTU 2.43 97 eP 34 39.94 -2.3
 SML 2.45 53 eP 34 40.88 -1.7
 GLI 2.68 77 eP 34 44.08 -1.6
 VLZ 3.09 73 eP 34 48.29 -2.9
 KLU 3.37 68 iP 34 52.45 -2.7
 TOA 3.49 58 eP 34 55.21 -1.5
 BALM 5.01 78 eP 35 15.13 -2.6
 FBA 5.01 23 P 35 17.40 -0.2

34 obs. associated

OCT 17, 1990 12h 16m 29.12±0.26s
 25.557 S ± 7.3km 176.311 W ± 5.5km
 DEPTH = 44.4km (3 depth phases)
 5.6mb (18 obs.) 5.5Msz (22 obs.)
 SOUTH OF FIJI ISLANDS (171)
 Ms 5.4 (BRK).
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 18S, 41C
 Centroid Location:
 Origin Time 12:16:31.3 0.4
 Lat 25.52S 0.05 Lon 175.92W 0.03
 Dep 15.0 BDY Half-duration 2.8
 Moment Tensor: Scale 10¹⁷ Nm
 Mrr= 3.31 0.09 Mtt= 0.63 0.11
 Mff= -3.93 0.13 Mrt= 0.23 0.23
 Mrf= 5.05 0.32 Mtf= 0.00 0.09
 Principal Axes:
 T Vol= 5.91 Plg=63 Azm=275
 N 0.62 2 182
 P -6.53 27 91
 Best Double Couple: Mo=6.2*10¹⁷
 NP1: Strike=177 Dip=18 Slip= 85
 NP2: 2 72 92

VUN 8.94 326 eP 18 38.90 0.2
 SGE 9.57 325 eP 18 48.50 1.1
 NDF 9.69 322 eP 18 55.00 6.1X
 PVC 16.26 296 iPd 20 22.10 6.0X
 BKM 16.36 296 iPd 20 14.50 -2.8
 MNG 16.51 202 eP 20 09.50 -9.5X
 WEL 17.35 203 eP 20 25.00 -4.5X
 THZ 18.46 206 eP 20 36.40 -7.0X
 KHZ 18.78 204 eP 20 37.50 -9.7X
 LTZ 19.58 206 eP 20 46.90 -9.4X
 HNR 27.67 301 eP 22 10.00 -5.0X
 BRS 27.70 259 iP 22 16.00 0.7
 COO 28.45 253 iPd 22 24.10 2.1
 CAN 31.32 244 eP 22 50.50 3.0X
 BWA 31.67 245 eP 22 48.80 -1.8
 CMS 33.67 251 eP 23 08.00 0.0
 CTA 34.85 271 iPd 23 18.50 0.2
 1.2s 31.25nm 5.1mb
 1s 29 13.00
 RAB 36.95 300 eP 23 28.00 -8.0X
 STK 37.28 250 eP 23 39.10 0.5
 1.4s 12.00nm 4.6mb
 PMG 38.20 288 eP 23 45.00 -1.5
 1.0s 82.00nm 5.6mb
 QIS 40.73 268 eP 24 07.50 0.0
 ASPA 45.09 261 iPd 24 41.10 -1.9
 1.4s 41.90nm 5.1mb
 Z 19s 7.50um 5.6Msz
 1s 30 14.50
 WB5 45.64 267 eP 24 45.80 -1.6
 DRV 49.17 201 eP 25 13.60 -0.7
 HON 49.87 23 P 25 30.00 9.9X
 Z 18s 1.29um 5.0Msz
 SBA 52.96 184 eP 25 44.20 1.3
 (S) 33 24.00
 GUA 54.19 311 eP 25 50.30 -2.3
 1.0s 80.00nm 5.7mb

GUMO 54.26 311 eP 25 50.00 -3.1X
 1.2s 300.00nm 6.2mb
 MRWA 59.46 250 eP 26 27.30 -2.8
 NANU 61.69 257 eP 26 43.20 -2.1
 SPA 64.59 180 iPc 27 03.00 -1.1
 1.0s 62.00nm 5.6mb
 Z 20s 8.42um 5.9Msz
 CHJJ 74.39 324 eP 28 02.70 -1.5
 MAT 75.18 324 iPc 28 07.40 -1.4
 1.0s 56.00 37
 OFUJ 75.35 327 eP 28 09.10 -0.5
 MTMJ 75.43 323 eP 28 09.20 -1.1
 YAMJ 75.46 326 P 28 10.30 0.0
 TSRJ 75.67 321 eP 28 10.10 -1.4
 AIA 75.73 156 eP 28 10.60 -0.9
 MAW 77.35 200 iP 28 20.20 -0.3
 PRS 80.45 42 eP 28 38.90 1.1
 SAO 80.69 42 eP 28 41.00 2.0
 PRI 80.75 43 eP 28 41.00 1.5
 MHC 80.96 41 eP 28 41.50 0.9
 BKS 80.96 40 eP 28 41.30 0.9
 0.9s 47.00nm 5.4mb
 Z 20s 1.80um 5.4Msz
 N 20s 1.30um
 E 20s 1.10um
 eS 38 48.00
 eLO 48 40.00
 eLR 52 52.00
 PAS 81.04 45 eP 28 46.00 5.1X
 BAR 81.11 47 eP 28 41.00 -0.4
 CENC 81.16 45 eP 28 42.00 0.2
 PLM 81.40 47 eP 28 43.00 -0.1
 RVR 81.46 46 eP 28 43.00 -0.1
 PEC 81.54 46 P 28 48.70 5.1X
 SBB 81.60 45 eP 28 43.00 -0.9
 ISA 81.81 44 eP 28 44.00 -1.0
 FRI 81.89 42 eP 28 44.30 -0.9
 SSE 82.11 310 Pc 28 47.50 1.0
 5.0s 400.00nm 5.7mb X
 Z 20s 0.90um 5.1Msz
 N 16s 0.80um
 E 16s 0.50um
 sP 29 05.00
 CMB 82.16 41 P 28 46.10 -0.6
 pP 29 01.30 53km
 TPC 82.40 47 eP 28 48.00 0.0
 CLC 82.46 44 eP 28 49.00 0.7
 ORV 82.51 40 eP 28 47.80 -0.7
 WDC 82.61 38 eP 28 48.70 -0.2
 GSC 82.64 45 eP 28 48.00 -1.3
 MIN 82.98 39 eP 28 49.90 -1.2
 LBFM 83.49 38 P 28 53.20 -0.5
 TNP 84.11 43 P 28 56.30 -0.6
 1.3s 45.92nm 5.4mb
 NJ2 84.28 309 Pd 28 56.60 1.0
 5.0s 700.00nm 6.0mb X
 pP 29 10.00 37km
 S 39 22.00
 IPM 85.36 277 eP 29 04.60 1.2
 MDJ 85.53 325 eP 29 04.50 1.0
 1.5s 100.00nm 5.8mb
 Z 20s 1.90um 5.5Msz
 sP 29 17.00
 BMW 86.28 34 P 29 08.20 0.9
 WHN 86.67 306 Pc 29 10.50 1.0
 4.0s 700.00nm 6.2mb X
 Z 20s 0.60um 5.0Msz
 N 18s 1.30um
 pP 29 17.50 22kmX
 S 39 47.00
 SNY 87.06 320 iPc 29 11.00 -0.1
 4.5s 700.00nm 6.2mb X
 Z 18s 1.10um 5.3Msz
 pP 29 24.00 43km
 sS 40 00.00
 CN2 87.23 322 Pc 29 12.00 0.1
 5.0s 700.00nm 6.2mb X
 Z 18s 1.20um 5.3Msz
 N 18s 0.70um
 E 18s 0.60um
 pP 29 21.80 31kmX
 SKS 39 40.00
 RMW 87.66 34 P 29 14.40 0.4
 TIA 87.81 312 eP 29 15.40 0.5
 Z 18s 1.10um 5.3Msz
 DUG 88.11 43 P 29 16.60 0.2
 DAU 89.21 44 P 29 22.20 0.3

ANMO 89.37 50 P 29 21.60 -1.0
 1.2s 29.30nm 5.5mb
 Z 20s 3.19um 5.7Msz
 PMR 89.57 13 P 29 21.70 -1.0
 1.4s 85.23nm 5.9mb
 Z 20s 2.00um 5.5Msz
 TTA 89.65 9 P 29 22.70 -0.5
 1.5s 67.57nm 5.7mb
 PNT 89.99 33 eP 29 24.00 -0.9
 1.2s 49.00nm 5.7mb
 NNT 90.00 284 eP 29 28.30 2.6
 LOE 90.40 289 eP 29 28.00 0.6
 GYA 90.48 299 iPc 29 29.00 1.2
 BJI 90.56 315 eP 29 27.50 -0.2
 Z 24s 0.95um 5.1Msz
 eSKS 40 00.00
 NEW 90.58 35 P 29 26.60 -1.1
 1.3s 14.15nm 5.2mb
 Z 20s 2.00um 5.5Msz
 NST 91.00 287 eP 29 32.20 2.0
 BW06 91.60 43 P 29 31.60 -1.2
 LRM 91.63 39 eP 29 32.00 -0.9
 TIY 91.78 311 eP 29 34.20 0.7
 Z 20s 1.50um 5.4Msz
 E 19s 1.70um
 sP 29 48.00
 XAN 92.41 307 P 29 37.80 1.3
 GOL 92.60 47 P 29 37.70 0.2
 1.3s 18.23nm 5.3mb
 Z 20s 2.25um 5.6Msz
 BDT 92.66 288 eP 29 40.30 2.5
 GLD 92.73 47 P 29 39.40 1.4
 Z 20s 3.00um 5.7Msz
 FBA 92.84 12 P 29 36.40 -1.3
 1.3s 33.02nm 5.6mb
 KMI 93.00 296 Pc 29 41.00 1.4
 1.5s 150.00nm 6.2mb
 Z 20s 1.40um 5.4Msz
 pP 29 48.00 22kmX
 CHG 93.39 289 ePc 29 24.50 -16.7X
 1.2s 67.58nm
 CHTO 93.39 289 ePc 29 42.20 1.0
 HHC 93.97 314 P 29 44.00 0.4
 CD2 94.79 302 P 29 48.00 0.5
 Z 22s 2.21um 5.6Msz
 BTO 94.86 313 eP 29 48.00 0.3
 N 17s 0.60um
 E 17s 0.60um
 eSKS 40 25.00
 SES 95.04 36 eP 29 47.00 -1.2
 LZH 97.04 307 P 30 02.20 4.4X
 Z 20s 1.00um 5.3Msz
 E 18s 1.10um
 ZOBO 98.70 113 eP 29 57.00 -9.2X
 Z 18s 0.90um 5.3Msz
 SKS 40 52.00
 LR 02 34.00
 SOB1 124.54 123 ePKP 35 24.10 -1.9
 MA10 131.53 297 ePKP 35 41.00 2.1
 TAB 141.99 300 ePKP 35 52.00 -6.4X
 NB2 144.16 354 PKP 35 57.40 -3.8X
 1.2s 51.00nm
 UPP 144.37 348 iPKP 35 57.90 -3.6X
 HFS 144.75 351 ePKP 35 58.70 -3.4X
 1.1s 70.00nm
 Z 20s 0.83um 5.5Msz
 LR 27 15.00
 KVT 149.06 308 ePKP 36 14.10 4.3X
 KAS 150.55 310 ePKP 36 17.50 5.4X
 MML 151.49 291 ePKP 36 19.00 5.3X
 BBTK 151.84 308 ePKP 36 16.00 1.9
 e 36 25.00
 PRNI 151.99 287 ePKP 36 20.00 5.5X
 MBH 152.10 286 ePKP 36 20.00 5.4X
 KRA 152.50 337 ePKP 36 15.40 0.8
 e 36 22.20
 KSP 152.96 342 ePKP 36 15.50 0.3
 1.2s 43.00nm
 i 36 21.40
 i 36 35.00
 CLL 153.32 347 iPKP 36 22.30 6.6X
 1.4s 29.00nm
 e 36 28.00
 WTS 153.49 356 ePKP 36 22.00 6.1X
 1.0s 27.00nm
 BRG 153.52 345 ePKP 36 16.40 0.4
 1.3s 23.00nm

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_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, pRPKP represents the phase pPKPPKP and RRPg represents PgPgPg.

References

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				Best Double Couple: Mo=3.6*10**19				TACH	22.58	188	iP	34	31.20	-0.5
				NP1: Strike=332 Dip=42 Slip=-100							i	37	54.50	
				NP2: 165 49 -81				BDF	22.73	104	ePc	34	38.06	4.6X
				CENTROID, MOMENT TENSOR (HRV)							eS	38	02.93	
				Data Used: GDSN				CHCH	22.86	180	iPd	34	33.80	-0.5
				L.P.B.: 19S, 49C M.W.: 15S, 36C							i	38	00.20	
				Centroid Location:				LNK	22.89	181	ePd	34	31.30	-3.1X
				Origin Time 14:30:22.2 0.2							i	34	33.60	8kmX
				Lat 10.95S 0.01 Lon 70.73W 0.01							i	38	02.00	
				Dep 616.1 1.1 Half-duration 8.0				TPP	23.09	24	eP	34	40.25	3.8X
				Moment Tensor: Scale 10**19 Nm				TBH	23.40	25	eP	34	42.75	3.6X
				Mrr=-3.02 0.03 Mtt= 0.24 0.03				TRN	23.41	24	eP	34	40.89	1.6
				Mff= 2.78 0.03 Mrt=-0.21 0.03							e	37	38.00	
				Mrf= 1.17 0.03 Mtf=-0.45 0.03				PIG	24.10	24	eP	34	48.28	2.9
				Principal Axes:				TPR	24.15	25	eP	34	47.77	1.9
				T Val= 3.09 Plg=11 Azm=260				BOT	24.16	25	eP	34	47.90	2.0
				N 0.16 0 170				GRW	24.70	22	eP	34	51.72	1.0
				P -3.25 79 80							e	37	38.00	
				Best Double Couple: Mo=3.2*10**19				VAO	25.67	121	iPd	34	58.50	-0.9
				NP1: Strike=350 Dip=34 Slip=-90				MVM	27.18	21	eP	35	11.04	-1.4
				NP2: 170 56 -90				BBL	27.89	19	eP	35	16.92	-1.6
								BMA	27.97	118	ePd	35	19.00	-0.3
								DOG	28.32	19	eP	35	20.29	-2.0
								JFO	28.38	116	eP	35	22.70	-0.2
								SFC	28.66	19	eP	35	23.40	-1.8
								SEC	28.70	19	eP	35	24.09	-1.4
								NEV	29.08	16	eP	35	27.40	-1.4
								PORP	29.13	8	iP	35	28.80	-0.4
								BPA	29.20	18	eP	35	27.40	-2.4X
								CPD	29.22	10	iP	35	29.40	-0.6
								SKI	29.22	16	eP	35	30.78	0.8
											e	38	17.00	
								SJG	29.25	9	iP	35	29.30	-1.0
								CSB	29.43	9	iP	35	32.40	0.6
								SOB1	29.47	89	iPd	35	33.20	1.0
								LPR	29.49	9	iP	35	31.50	-0.9
								CPB	29.77	17	eP	35	31.37	-3.3X
								CAI	33.52	85	iPd	36	07.00	0.6
								SCX	35.00	322	(P)	36	21.50	3.0X
								EVV	37.98	320	(P)	36	44.00	1.1
								LVVM	39.63	320	(P)	36	57.18	1.0
								ACX	39.90	313	(P)	36	59.80	1.3
								11T	40.31	317	(P)	37	04.50	2.5
								PPM	40.55	317	(P)	37	06.30	2.0
								11I	40.64	316	(P)	37	05.80	1.2
								MEX	41.11	317	(P)	37	12.00	3.6X
								UNM	41.11	317	(P)	37	10.50	2.1
								11J	41.76	317	(P)	37	15.80	2.0
								MRX	42.74	315	(P)	37	22.70	1.9
								CGX	44.33	313	(P)	37	35.50	2.0
								HBF	44.61	348	P	37	35.00	-0.1
								SGS	44.88	348	P	37	37.00	-0.3
								JSC	46.09	348	P	37	45.90	-0.6
								PRM	46.14	347	P	37	46.30	-0.6
								TKL	47.97	346	P	37	59.30	-1.5
								GBTN	48.09	345	P	38	00.20	-1.4
								RSCP	48.38	344	P	38	02.20	-1.7
								MZX	48.69	314	(P)	38	07.94	1.7
								BLA	48.77	350	iPd	38	06.40	-0.3
											pP	39	20.00	360kmX
											pCp	39	56.00	
								NAV	48.94	349	P	38	07.50	-0.5
								UYO	50.21	334	iPc	38	16.00	-1.3
								ELC	51.03	341	P	38	21.00	-2.2
								GMTN	51.69	357	iP	38	26.40	-1.5
								PNJ	51.71	357	iP	38	26.80	-1.2
											pCp	39	32.00	
											pP	40	18.70	607kmX
								TXNY	51.98	357	iP	38	28.50	-1.5
								FVM	52.06	340	iPd	38	28.80	-1.8
											iS	44	55.00	
								TUL	52.27	334	iPd-	38	27.40	-4.8X
								Z	21s	17.38um			6.1MsZ	
											epP	40	24.00	643kmX
											eS	45	05.00	
											LR	48	30.00	
								SIO	52.35	334	iP	38	31.50	-1.3
								MEO	52.59	331	iPd	38	32.60	-1.9
								CLE	53.13	350	iP	38	37.20	-1.0
								HRV	53.22	359	iPd	38	37.79	-1.0
											iPcP	39	35.66	
											iPc	40	31.34	611kmX
											iS	41	33.59	
											e	42	46.72	
											eS	45	22.91	
											eScS	47	21.27	
											eSS	48	40.94	

17d 14h

AIA	54.39	177	iP	38	45.50	-1.2	PAS	63.54	317	iPd	39	48.76	0.7	iSKS	49	07.91				
DLA	54.47	350	P	38	46.60	-1.0				iPcP	40	18.06		iP'P'	08	26.00				
LDN	54.58	351	P	38	46.55	-1.8				ipPc	41	46.62	593kmX	iPd	40	11.50	0.0			
ELF	54.75	351	P	38	47.60	-2.0				epPcP	42	49.00		iPd	40	11.70	0.0			
ANMO	56.81	325	iPd	39	04.08	0.0				esP	43	20.00		iS	48	22.90				
			iPcP	39	50.68					esPcP	43	32.00		SXM	67.43	331	iPd	40	12.00	-0.2
			ipPc	40	59.96	609kmX				esPP	45	10.00				ipP	42	15.40	616kmX	
			isPc	42	01.87					epPcS	46	28.00		ARN	67.61	318	P	40	12.00	-1.3
			iScP	42	48.28					eS	47	36.58		LIC	67.63	79	Pd	40	12.72	-1.0
			iS	46	09.27					iSKS	48	38.99		MHC	67.68	318	eP	40	13.80	0.0
			eScS	47	50.40					eScS	48	39.00				e	40	14.80		
			eSS	49	31.10					esS	51	06.00				ipP	42	17.50	618kmX	
CBM	57.69	2	iP	39	08.50	-1.1				eSSS	55	10.00				eS	48	24.60		
			ipP	41	06.00	617kmX				eLg	57	50.00		GCC	67.74	318	eP	40	13.80	-0.2
			eS	46	12.80					iPd	39	48.00	-0.7			e	40	14.70	3kmX	
MBO	59.00	66	iPd	39	19.40	0.5	SBB	63.62	318	e	40	17.00		TIC	67.74	78	Pd	40	13.50	-0.9
GLD	59.74	330	P	39	23.00	-0.7				epP	41	47.00	600kmX	LRM	67.80	330	iPd	40	14.00	-0.5
	1.5s	3937.50nm			6.4mb					e	42	27.00				epP	42	17.70	617kmX	
			pP	41	24.00	633kmX				esP	43	15.00		HBMT	67.86	330	iPd	40	14.40	-0.5
GOL	59.78	330	iP	39	23.00	-1.0				e	47	25.00				epP	40	17.70	11kmX	
			e(pP)	41	24.00	633kmX				eScS	48	18.00		KIC	67.94	79	Pd	40	15.00	-0.6
			iS	47	49.00					iP	39	51.00	0.0			S	48	20.00		
			i	48	34.00		CHIE	63.98	52	iS	47	43.40		BUT	68.00	330	ePd	40	16.00	0.4
GLA	60.65	318	eP	39	31.40	1.8				eP	39	51.00	-1.0	HRV	68.14	331	iPd	40	16.00	-0.4
GLA	60.65	318	eP	39	34.00	4.4X	CLC	64.15	319	epP	41	52.00	612kmX			epP	40	19.80	12kmX	
			e	40	07.00					esP	43	22.00		PCC	68.26	318	eP	40	17.40	0.3
			epP	41	03.00	421kmX				e	47	44.00		BKS	68.37	318	ePd	40	17.40	-0.4
			e	41	28.00					eScS	48	42.00			0.8s	2797.00nm			6.8mb	
			esP	43	08.00		BW06	64.17	329	P	39	50.90	-1.3			epP	42	22.30	624kmX	
			e	47	01.00		TBT	64.49	51	iPd	39	53.80	-0.4			eS	48	38.00		
			eScS	48	20.00					iS	47	49.80				esS	52	08.00		
IKP	61.26	317	eP	39	35.50	1.9				eP	39	54.00	-1.0			eSS	53	18.00		
BAR	61.66	317	eP	39	35.00	-1.1	ISA	64.63	318	e	40	17.00				e(sSS)	56	48.00		
			e	40	10.00					epP	41	57.00	624kmX			e(LQ)	59	36.00		
			epP	41	33.00	601kmX				e	42	27.00		BRK	68.39	318	ePc	40	18.00	0.2
			e	42	24.00					esP	43	18.00				ipP	42	19.00	597kmX	
			esP	43	13.00					e	47	37.00				epPP	44	06.00		
			eScS	48	26.00					eScS	48	19.00				eS	48	30.00		
CPE	62.06	316	eP	39	40.40	1.7				iPd	39	57.00	-0.3			eScS	49	14.00		
TPC	62.10	318	eP	39	38.00	-1.0	SYP	64.97	316	e	40	24.00				eSS	52	27.00		
			e	40	12.00					epP	41	58.00	609kmX			eLQ	57	14.00		
			epP	41	38.00	614kmX				esP	43	46.00				eP'P'	08	22.00		
			e	42	27.00					e	47	39.00		ZSP	68.42	318	iPd	40	19.00	0.9
			esP	43	12.00					eScS	48	51.00				ipP	42	22.70	615kmX	
			e	47	15.00					iP	39	58.50	-0.8			eS	48	37.00		
			eScS	48	28.00		TNP	65.30	321	eS	47	54.00				eP'P'	08	21.70		
PLM	62.19	317	iPd	39	39.00	-0.7				iP	40	00.00	0.0	ORV	68.86	320	eP	40	20.50	-0.2
			e	40	23.00		BCH	65.42	317	iPcP	40	25.80	612kmX			eP'P'	08	19.50		
			epP	41	39.00	613kmX				i	42	01.70		MIN	69.38	321	eP	40	22.60	-1.4
			e	42	27.00					e	08	20.00				eP'P'	08	18.50		
			esP	43	11.00		SCH	65.62	3	ePd	39	59.50	-1.2	WDC	70.10	320	eP	40	25.80	-2.2
			e	47	19.00			0.8s	319.00nm			5.8mb				i	41	21.80		
			eScS	48	30.00		CTFE	65.66	52	iPd	40	01.80	0.3			ipP	42	30.00	613kmX	
PEC	62.71	317	P	39	41.20	-1.6				iS	48	03.50				eS	48	48.00		
			pP	41	43.00	624kmX				P	40	03.60	0.6	SES	70.47	334	iPd	40	29.00	-1.0
RVR	62.91	317	eP	39	43.00	-1.1	PKEM	65.94	318	P	40	03.60	0.6		0.8s	858.00nm			6.3mb	
			e	40	15.00		GGC	65.98	53	iP	40	04.00	0.5		70.53	341	iPd	40	29.10	-1.1
			epP	41	41.00	596kmX				iS	48	12.00			0.7s	1018.00nm			6.5mb	
			e	42	18.00		FRI	66.22	319	ePc	40	03.50	-1.2			eP	40	34.60	0.6	
			esP	43	17.00		PRI	66.35	317	ePc	40	06.00	0.3	FHC	71.13	320	eP	40	39.80	616kmX
			e	47	22.00					ipP	42	28.80	762kmX			ipP	42	39.80		
			eScS	48	34.00					iP'P'	08	20.00				eP'P'	08	18.20		
VPD	63.06	317	iP	39	45.80	0.8	KVN	66.44	321	iP	40	05.50	-0.8			eP'P'	08	18.20		
			iPcP	40	15.90					iPcP	40	27.20	593kmX	NEW	71.80	329	iP	40	36.00	-1.7
			ipP	41	46.10	612kmX				i	42	05.00				iS	49	06.20		
			iScP	43	13.70					iS	48	07.50		COR	72.86	324	iPd	40	45.40	1.6
			eScS	48	39.40					iPd	40	08.50	0.5			ipPc	42	47.90	593kmX	
SCI	63.11	316	eP	39	47.00	1.7	LTMT	66.72	329	ipP	42	12.30	622kmX			esPc	43	49.48		
CIS	63.26	316	eP	39	48.30	2.0				eP	40	07.60	-0.8			iS	49	23.40		
GSC	63.33	319	iPd	39	47.00	0.2	LLA	66.81	318	i	40	10.00	8kmX			eSKS	49	50.66		
			e	42	47.00					eP'P'	08	24.30		LON	73.30	326	iPd	40	46.55	0.2
			esP	43	49.00					ePd	40	08.90	-0.2			ipPc	42	50.04	598kmX	
			e	47	16.00		MEMT	66.92	330	eP	40	09.00	-0.1			ePc	43	50.30		
			eScS	48	24.00		PRS	66.93	317	eP'P'	08	23.80				iS	49	28.38		
DAU	63.37	326	iPd	39	46.00	-1.3	BGMT	67.18	330	iPd	40	10.40	-0.3			eSKS	49	55.75		
			iS	47	30.00					epP	42	14.90	625kmX	RMW	73.73	327	P	40	48.00	-0.7
			eSS	52	11.90					eP	40	11.40	0.5	PNT	73.74	329	iPd	40	48.50	-0.2
PVPS	63.48	317	eP	39	48.80	1.1	SAO	67.22	318	epP	42	12.50	601kmX	TIO	73.76	53	iPd	40	50.00	0.6
			ePcP	40	18.20					eS	48	24.70				i	42	58.00	626kmX	
			epP	41	48.80	608kmX				eP'P'	08	16.00		FRB	74.51	1	ePd	40	51.00	-1.5
MWC	63.50	317	eP	39	48.00	-0.1				iPd	40	11.41	0.2	AVE	74.61	51	iPd	40	54.80	1.0
			e	40	17.00		CMB	67.27	319	ePcP	40	32.18				i	41	16.00	80kmX	
			epP	41	48.00	607kmX				ipPc	42	11.26	593kmX			i	49	45.00		
			e	42	16.00					ipPP	43	53.60		PGC	75.32	327	ePd	40	57.50	0.1
			esP	43	19.00					iPPP	43	57.04		LIS	75.68	45	iPd	41	01.90	2.3
			e	47	33.00					iS	48	20.73		CNIL	76.89	49	eP	41	08.50	2.3
			eScS	48	39.00									MOMI	77.12	49	eP	41	09.50	2.0

GIBL	77.15	48	eP	41 08.50	0.8			S	51 12.00		UCC	89.21	38	Pd-	42 07.00	0.0
OJEN	77.16	49	eP	41 11.00	3.2X	GRR	85.19	39	eP	41 46.00 -1.4			pP	44 19.00	613kmX	
ALJ	77.35	48	eP	41 09.50	0.7	POF	85.33	119	iPd	41 50.00 0.7			sP	45 20.00		
EJIF	77.35	49	iPd	41 10.40	1.7	ETER	85.50	46	iPd	41 49.60 -0.2			iSKS	51 38.00		
			ipPd	43 20.50	628kmX				ipPd	44 04.00 635kmX			S	52 03.00		
EZAM	77.55	42	iPd	41 10.10	0.4	FLN	85.56	39	eP	41 48.70 -1.3			SP	53 15.00		
			ipPd	43 19.80	625kmX								sS	54 02.00		
EPRU	77.74	48	iPd	41 12.20	1.4	Z	20s	11.25um		7.0mb			iP'P'	07 44.00		
			ipPd	43 22.50	629kmX	RJF	85.59	42	eP	41 48.80 -1.4		KKH	89.22	290 P	42 08.00	0.4
STS	77.99	42	iPc	41 13.00	1.1	Z	18s	1.48um		5.4Msz		MHA	89.22	291 P	42 08.00	0.3
EHOR	78.07	47	iPd	41 13.10	0.6	LDF	85.72	39	iPc	41 49.50 -1.2		ENR	89.25	45 P	42 07.64	0.1
			ipPd	43 23.50	628kmX	AKU	85.73	19	iP	41 51.70 1.3		BHB	89.32	44 P	42 07.00	-0.7
EPLA	78.41	45	iPd	41 15.00	0.7		1.9s	6589.47nm		7.0mb		RSP	89.40	44 P	42 10.06	1.9
			ipPd	43 25.50	628kmX	SBA	85.81	190	iPd	41 51.00 0.2		LSD	89.42	43 P	42 09.81	1.4
ERUA	78.69	43	iPd	41 16.40	0.7				iS	51 20.00		VITF	89.43	41 P	42 07.83	-0.2
			ipPd	43 26.80	627kmX	CAF	85.83	43	iPc	41 50.10 -1.3		EMS	89.44	43 ePd	42 08.30	-0.1
EMEL	78.79	51	eP	41 16.70	0.4	SIT	85.86	330	eP	41 51.50 0.4		IMI	89.49	45 P	42 07.97	-0.6
			ipPc	43 30.00	645kmX	LSF	85.93	42	eP	41 50.60 -1.2		ROB	89.58	45 P	42 09.17	0.2
TAF	79.02	51	iPc	41 19.00	1.4	TCF	86.39	42	eP	41 52.40 -1.6		HAU	89.61	41 eP	42 07.60	-1.4
			i	43 29.00	623kmX	EAB	86.40	31	eP	41 52.40 -1.4		Z	1.6s	1101.90nm		6.5mb
EMON	79.03	42	iPd	41 18.00	0.5		0.8s	965.00nm		6.6mb		HKL	89.66	291 P	42 09.00	-1.2
			ipPd	43 29.00	629kmX	MAF	86.60	42	eP	41 53.60 -1.4		LOMF	89.73	42 P	42 09.37	-0.2
ECOG	79.08	49	iPc	41 18.60	0.6	ESK	86.61	32	ePd	41 54.00 -0.9		DIX	89.76	43 ePd	42 10.20	0.2
			ipPc	43 29.00	625kmX		1.0s	1640.00nm		6.7mb		FIN	89.80	45 P	42 09.88	0.0
AFC	79.09	49	iPd	41 18.60	0.5	EKA	86.65	32	Pd	41 54.10 -0.9		BSF	89.84	41 P	42 09.56	-0.6
			ipPd	43 30.00	632kmX		1.0s	1116.00nm		6.5mb		CKI	89.90	45 Pd	42 09.50	-0.9
SPA	79.10	180	iPd	41 16.30	-1.3	EAU	86.71	31	eP	41 54.30 -1.0		PGF	89.92	47 P	42 10.67	0.1
	1.0s			555.00nm			0.8s	1716.00nm		6.8mb		ORO	90.02	43 P	42 09.90	-1.1
Z	21s			13.33um		LBL	86.72	43 P		41 55.95 0.4		ORX	90.02	43 P	42 14.04	3.0
EBAM	79.27	48	iPd	41 19.40	0.6	PYM	86.73	42	P	41 55.69 -0.1		MOF	90.07	41 P	42 10.75	-0.4
			ipPc	43 30.00	626kmX	ELO	86.84	31	eP	41 55.40 -0.5		DBN	90.10	37 iP	42 12.00	1.0
TOL	79.76	46	iPd	41 22.46	1.2	EBH	86.85	31	eP	41 55.30 -0.7				ipP	44 24.00	612kmX
	1.2s			4062.50nm		EBL	86.89	32	eP	41 55.20 -1.0				esP	45 21.00	
			ipPc	43 31.58	616kmX		0.8s	572.00nm		6.4mb				esPP	48 49.00	
			iSP	44 22.00		BGF	86.89	42	eP	41 55.00 -1.4				eSKS	51 44.00	
			ePP	44 31.40		AGO	86.91	42	P	41 56.32 -0.2				eS	52 06.00	
			iS	50 38.00		ESY	87.17	32	eP	41 56.70 -0.8				ePS	53 22.00	
			iSP	51 14.00			0.8s	1186.00nm		6.7mb				eS	56 09.00	
			iPP	07 55.00		PLDF	87.21	42	P	41 57.97 0.0		PCP	90.12	45 P	42 11.77	0.4
ENIJ	79.96	49	iPd	41 22.00	-0.4	EDU	87.23	31	eP	41 57.30 -0.4		MMK	90.12	43 ePd	42 11.80	0.1
			ipPd	43 33.00	627kmX	GRC	87.28	41	P	41 57.66 -0.5		ENN	90.15	38 iPd	42 11.70	0.4
GUD	79.99	45	iPd	41 23.40	0.8	AVF	87.30	41	iPc	41 56.40 -1.9			1.3s	1761.00nm		6.8mb
			ipPd	43 34.50	628kmX	SSF	87.48	41	eP	41 57.30 -1.9				ipP	44 25.50	622kmX
EVIA	80.38	48	iPd	41 25.60	1.0	SMF	87.57	42	iPc	41 58.00 -1.6				e(S)	52 13.00	
			ipPd	43 36.50	625kmX	PRAF	87.58	45	P	41 59.57 -0.2				ePKKP	59 38.50	
YKA	80.71	341	eP	41 26.00	0.3	GELF	87.63	45	P	42 00.09 0.1				eP'P'	07 40.50	
	0.8s			3011.50nm		TREF	87.67	45	P	42 00.09 -0.1		MEM	90.15	38 iPd	42 11.02	-0.3
VAL	81.34	33	iP	41 29.20	0.2	LBF	87.76	41	eP	41 58.70 -1.8				pP	44 25.00	623kmX
			S	50 48.00		LOR	87.78	41	eP	41 58.70 -1.9				SKS	51 45.80	
ETOR	81.53	46	iPd	41 31.50	1.1	Z	1.2s	1046.00nm		6.5mb		BCAO	90.16	B6 iPd	42 11.80	-0.4
			ipPd	43 43.30	628kmX		20s	13.50um		6.4Msz			0.5s	125.00nm		6.1mb
ECHE	81.84	47	iPd	41 32.70	0.7	BERF	87.79	45	P	42 00.39 -0.4				id	43 02.80	206kmX
			ipPd	43 45.00	631kmX	PUYF	87.86	45	P	42 00.54 -0.5				id	44 25.00	
ECRI	81.90	44	iPd	41 32.80	0.6	VILF	87.97	45	P	42 01.37 -0.2				id	46 31.00	
			epP	43 44.50	627kmX	TAVF	88.14	45	P	42 01.97 -0.4				id	51 44.50	
BOH	83.11	44	P	41 39.25	1.0	PFH	88.20	290	P	42 03.00 0.0				id	52 11.00	
ELYF	83.14	44	P	41 38.81	0.4	LRG	88.30	45	iPc	42 02.40 -0.6				id	59 40.00	
BST	83.20	38	P	41 39.72	1.2	LMR	88.37	45	iPc	42 02.40 -0.9				id	07 42.00	
ISSF	83.22	44	P	41 39.66	0.8	HIL	88.38	290	P	42 04.50 0.7				ic	42 11.58	0.0
MADF	83.25	44	P	41 39.31	0.4	FRF	88.53	45	iPc	42 03.30 -0.8		ECH	90.19	41 P	42 11.58	0.0
EREO	83.27	46	iPd	41 39.40	0.4	CALN	88.75	45	P	42 05.62 0.3		BBS	90.21	42 P	42 11.66	-0.1
			ipPd	43 52.00	629kmX	BNI	88.98	44	Pd	42 06.30 0.0		CDF	90.32	41 P	42 11.88	-0.4
LHE	83.30	44	P	41 40.03	0.8	MVIF	88.98	45	P	42 06.85 0.5		WLS	90.37	41 P	42 12.42	-0.1
ATE	83.31	44	P	41 40.03	0.8	RRL	89.01	44	P	42 07.23 0.7		INK	90.48	341 iPd	42 11.90	-0.6
ESCF	83.39	44	P	41 40.24	0.6	YKU	89.03	332	eP	42 07.90 2.0			0.5s	348.00nm		6.6mb
ECB	83.42	34	iPd	41 38.80	-0.6	SNF	89.08	38	iPd	42 05.89 -0.5				pP	42 59.00	189kmX
REY	83.49	19	iP	41 41.20	1.6				pP	44 19.80 625kmX		VAI	90.62	43 P	42 12.50	-1.1
			e	41 52.40	36kmX				PKKP	59 41.50		FEL	90.65	41 eP	42 12.96	-0.9
OGE	83.50	44	P	41 40.57	0.5				P'P'	07 44.40		STR	90.68	41 P	42 14.26	0.5
BLE	83.50	123	iPd	41 40.00	-0.4	TOUF	89.08	45	P	42 07.18 0.3		GWF	90.69	40 P	42 13.92	0.0
	0.6s			565.33nm		REVF	89.08	45	P	42 07.20 0.5		DWY	90.72	336 Pd	42 12.70	-1.0
JAU	83.52	44	P	41 41.35	0.9	AURF	89.10	45	P	42 07.22 0.4		TMA	90.75	43 ePd	42 13.60	-0.8
ECP	83.56	34	iPd	41 39.60	-0.5	PZZ	89.11	44	P	42 07.34 0.4		PLH	90.76	38 ePd	42 13.10	-0.9
BTH	83.66	44	iPc	41 42.00	1.1	DOU	89.13	39	Pd-	42 06.00 -0.7		PTS	90.78	53 Pd	42 15.40	0.9
			PcP	41 46.00					pP+	44 19.00 619kmX		ZLA	90.79	42 ePd	42 14.00	-0.4
			i	51 06.00					SP	45 22.00		BOB	90.80	45 Pd	42 14.20	-0.4
ETA	83.88	34	iPd	41 41.00	-0.7				SKS	51 38.00		SLE	90.93	42 ePd	42 14.50	-0.5
EPF	84.00	44	iPc	41 42.10	-0.6				S	52 02.00		LLS	91.03	42 ePd	42 15.50	-0.2
	1.2s			1208.70nm					SP	53 16.00		WTS	91.04	37 iPd	42 15.20	-0.1
ESEL	84.70	48	iPd	41 46.00	-0.1	LPL	89.15	43	eP	42 06.80 -0.4			0.9s	765.00nm		6.7mb
			ipPd	44 00.00	635kmX	LPG	89.15	43	eP	42 07.00 -0.3				eP	44 30.50	630kmX
LPF	84.94	39	eP	41 45.60	-1.4	SBF	89.17	45	iPc	42 06.00 -1.1				e(S)	52 20.00	
LFF	84.95	43	eP	41 46.60	-0.5	STV	89.19	45	P	42 07.92 0.7				ePKKP	59 36.00	
MFF	84.97	41	iPc	41 46.10	-1.1	AUTN	89.20	45	P	42 07.74 0.3				eP'P'	07 40.00	
LPO	85.16	43	eP	41 47.00	-1.1	DOI	89.21	44	P	42 07.60 0.3		WIT	91.18	36 eP	42 16.50	0.5
RAR	85.18	249	P	41 50.00	1.3											

17d 14h

			eP	44	27.50	605kmX		1.8s	2385.00nm		7.0mb		2.0s	2800.00nm		7.1mb				
			e(S)	52	21.00				i	42	50.00			i	43	03.00				
			ePKKP	59	32.00				ipP	44	41.00	621kmX		i	43	21.00				
			eP'P'	07	45.00				42	28.10	0.2		ipP	44	46.80	613kmX				
DMH	91.19	291	P	42	07.00	-9.7X	DUI	93.67	48	P	42	28.10		isP	45	35.20				
MDI	91.23	44	Pd	42	15.10	-1.3	HOF	93.70	40	eP	42	27.50	-0.2	eSKS	52	08.00				
VDL	91.24	43	ePd	42	16.30	-0.5		1.8s	1588.00nm		6.9mb		iP'P'	52	32.20					
PII	91.29	46	P	42	16.20	-0.5	Z	16s	10.00um		6.4MszX		iS	52	52.00					
LVI	91.31	52	Pd	42	17.10	0.2	ATN	93.76	52	P	42	26.70	-1.6	e	54	51.50				
SAX	91.35	42	ePd	42	17.20	-0.1	BSS	93.76	49	P	42	28.60	0.4	iPKKP	59	26.10				
HON	91.38	291	P	42	18.50	0.9	BHG	93.79	42	iPd	42	28.00	-0.2	iP'P'	07	32.20				
KIP	91.41	291	eP	42	19.89	2.2	EVA	93.82	118	iPc	42	28.60	-0.5	PRU	95.32	40	Pd	42	35.10	0.1
			i	51	52.50		KBA	93.97	43	iPd	42	28.00	-1.2	1.9s	1731.00nm		7.0mb			
			iS	52	25.89				ipP	44	42.80	626kmX		pP	44	47.90	613kmX			
			e	52	46.58				iSKS	52	04.70		iSKS	52	13.00					
			ePS	53	38.17		TRI	93.98	44	ePc	42	28.00	-1.0	PS	55	49.00				
BDI	91.42	45	P	42	16.10	-1.4			ipP	44	36.00	586kmX	HVAR	95.40	47	iPd	42	35.60	0.1	
MAO	91.43	47	Pd	42	17.10	-0.3			iPP	46	22.50		PTJ	95.52	44	iPd	42	36.00	-0.1	
OPA	91.46	292	P	42	18.00	0.1			iSKS	52	05.00		ZAG	95.53	45	iP	42	37.00	1.0	
ERC	91.51	52	P	42	18.20	0.2			iSKKS	52	27.90		NB2	95.66	29	P	42	36.40	0.1	
MME	91.53	45	Pd	42	17.50	-0.7			iS	52	47.90		RGS	95.73	27	eP	42	37.30	0.8	
TNS	91.55	39	ePd	42	17.70	-0.2			iSP	54	00.00		LCI	96.04	50	P	42	38.50	0.1	
JMI	91.56	17	eP	42	19.21	1.7			iSKS	55	34.00		VKA	96.17	42	iPd	42	39.70	0.8	
CVT	91.59	52	P	42	19.70	1.5			i	57	50.00			3.5s	7313.00nm		7.3mb X			
MBC	91.61	350	ePd	42	17.40	-0.2			i	03	00.00					43	51.40	299kmX		
	1.0s	578.00nm			6.6mb		PMR	94.09	332	eP	42	28.80	-0.3				44	52.80		
STU	91.64	41	iPd-	42	17.50	-0.8		0.3s	134.20nm		6.6mb						48	34.70		
	1.0s	880.00nm			6.7mb				i	42	57.90	110kmX					52	16.50		
JNW	91.70	17	eP	42	20.17	2.1			e	44	39.90						53	04.50		
JNE	91.71	17	eP	42	20.07	1.9	WET	94.09	41	iPd	42	29.50	0.0				54	30.30		
SAL	91.74	44	P	42	18.50	-0.3			iS	52	05.00						55	54.00		
OSS	91.74	43	ePd	42	18.60	-0.4							SOP	96.23	43	iPd	42	41.10	2.0	
MID	92.14	330	P	42	20.30	0.1	SGO	94.09	50	P	42	29.20	-0.4	KSP	96.57	40	iPd	42	40.50	-0.1
PGD	92.17	46	P	42	19.70	-1.3	VOY	94.13	44	iPd	42	29.40	-0.5		1.0s	994.00nm		7.1mb		
FAI	92.19	53	P	42	25.00	4.0X	MGR	94.20	50	P	42	29.70	-0.5				44	53.80	615kmX	
MCT	92.23	52	P	42	22.80	1.3	WOL	94.33	27	eP	42	31.21	1.0				i	46	44.00	
CRE	92.28	46	P	42	19.80	-1.6	RIY	94.34	45	ePd	42	30.10	-0.5				i	47	21.70	
PRY	92.33	118	iPc	42	25.60	3.4X			iS	52	06.90						iS	52	19.70	
	1.0s	720.00nm			6.7mb		COL	94.41	335	iPd	42	30.36	-0.2	KRI	96.62	109	iPd	42	45.40	3.7X
RMP	92.42	48	P	42	22.20	0.2			ipPc	44	41.46	603kmX					i	46	44.10	
MNS	92.53	47	P	42	22.20	-0.3			ePP	46	21.18						i	52	28.90	
SQTA	92.58	43	iPd	42	22.20	-0.6			iS	52	04.59						i	53	17.00	
	1.3s	1938.00nm			7.0mb				iSKS	52	05.15		ZST	96.67	42	iPd	42	40.00	-1.1	
			ipP	44	36.50	624kmX			e	52	27.22						i	42	41.80	6kmX
			iPP	46	15.00		FBA	94.41	335	P	42	29.00	-1.6				i	44	49.50	
			i(S)	52	38.80			1.0s	350.00nm		6.5mb		HFS	96.68	30	eP	42	40.20	-0.7	
CTI	92.61	44	P	42	22.60	-0.3			pP	44	43.00	621kmX		0.9s	155.80nm		6.3mb			
GIB	92.61	52	P	42	23.10	0.0	CEY	94.44	44	ePd	42	30.60	-0.6	Z	16s	4.57um		6.1MszX		
SUE	92.63	28	eP	42	23.24	0.8	CZI	94.47	51	P	42	29.10	-2.3				LR	20	34.00	
ASK	92.66	29	eP	42	23.37	0.8	MMN	94.48	50	P	42	31.60	0.2	NS\$	96.71	26	eP	42	42.50	1.6
ASS	92.66	47	Pd	42	21.80	-1.4	KHC	94.54	41	iPd	42	31.30	-0.3	HCY	96.77	48	eP	42	42.00	0.3
BER	92.69	29	iPc	42	23.31	0.5		1.4s	594.50nm		6.6mb		BRY	96.87	48	eP	42	42.50	0.1	
RSM	92.70	46	Pd	42	22.20	-1.0			e	44	43.00	607kmX	BDV	96.99	48	eP	42	43.10	0.4	
FUR	92.84	42	eP	42	23.30	-0.5	KONO	94.56	30	iPd	42	32.08	0.8	SVW	97.03	331	eP	42	41.00	-1.5
	1.0s	1900.00nm			7.1mb				S	52	08.00						e	44	55.40	622kmX
Z	17s	6.00um			6.1MszX		LJU	94.57	44	ePd	42	31.40	-0.3	IMA	97.07	336	eP	42	42.10	-0.7
WATA	92.85	42	iPd	42	23.70	-0.4			eS	52	08.00			1.2s	388.70nm		6.6mb			
	1.6s	4255.00nm			7.2mb		CLL	94.61	39	iPd	42	31.80	0.0				i	43	17.80	138kmX
			ipP	44	37.40	620kmX		1.9s	2450.00nm		7.1mb						e	44	55.10	
			iPP	46	15.80				ipP	44	45.00	616kmX	NKY	97.19	48	eP	42	45.00	1.2	
			iSKS	52	00.00				iSKS	52	08.00		VLO	97.23	50	iPd	42	45.50	1.7	
			iSKKS	52	06.80				eS	52	49.00		ULC	97.25	49	eP	42	44.50	0.5	
			iS	52	35.30				PKKP	59	27.10		TTG	97.33	48	eP	42	44.60	0.4	
			iP'P'	07	42.80				P'P'	07	34.00						e(S)	52	23.50	
TOA	92.89	333	eP	42	23.00	-0.8							KEK	97.35	51	iPd	42	45.00	0.6	
			id	42	24.40	4kmX	CSI	94.69	51	P	42	33.30	0.9	CIR	97.41	113	iPd	42	46.10	1.0
ARV	92.95	46	P	42	23.30	-1.1	KMR	94.69	42	iP-	42	33.20	1.0				i	46	48.00	
AZI	92.99	48	P	42	24.70	0.1			i	44	44.80	606kmX								
AQU	93.04	48	P	42	25.60	0.7			i	49	26.90		SRO	97.42	43	iP	42	44.30	-0.2	
MNO	93.12	52	P	42	26.20	0.6			i	52	15.00		SDA	97.45	49	eP	42	45.40	0.6	
VVI	93.12	44	P	42	25.50	0.3			i	54	14.70		TTA	97.52	333	ePd	42	43.90	-0.9	
MEU	93.14	53	Pd	42	25.70	0.1							SRN	97.53	51	iP	42	46.10	0.9	
BLS2	93.15	30	iPc	42	26.96	1.9	TDS	94.70	51	P	42	32.10	-0.4	LACI	97.55	49	iPc	42	45.60	0.3
GRF	93.15	40	ePd	42	25.30	0.1	KDC	94.80	328	eP	42	32.00	-0.4	PLE	97.55	47	eP	42	46.00	0.6
	1.7s	2644.00nm			7.0mb				e	44	46.00	620kmX	TPE	97.59	50	eP	42	42.00	-3.5X	
Z	22s	7.00um			6.1Msz		ORI	94.86	50	P	42	32.20	-1.0	BERA	97.60	50	eP	42	45.30	-0.2
			ePc	44	38.40	616kmX	ROI	94.86	51	P	42	33.30	0.1	TIR	97.63	49	eP	42	47.00	1.4
			eS	52	02.70		MAW	94.88	164	iPd-	42	32.00	-0.8	IGT	97.73	51	ePc	42	46.50	0.3
			e	07	27.70		BUL	94.92	111	iP	42	33.70	-0.3	VLS	97.75	53	eP	42	45.50	-0.8
			iP'P'	07	42.70				i	44	48.00	622kmX	BUD	97.85	43	e(P)	42	43.00	-3.5X	
SDI	93.21	48	P	42	25.40	-0.3			iS	52	55.00		IVA	97.85	48	eP	42	47.00	0.2	
SLR	93.31	117	iPd	42	24.58	-2.1	BRN	94.95	38	iPd	42	35.50	2.3	PVY	97.87	48	eP	42	48.40	1.5
			ipPc	44	36.68	610kmX			eP	44	48.00	611kmX	LSK	98.02	51	eP	42	46.30	-1.3	
HYA	93.32	28	iPd	42	27.01	1.3			eS	52	26.00		PHP	98.10	49	eP	42	47.30	-0.5	
FVI	93.49	43	P	42	26.50	-0.3	VBY	94.97	45	ePd	42	33.90	0.4	KKS	98.13	49	eP	42	48.00	0.1
MOX	93.61																			

KBN	98.24	50	iPd	42	48.80	0.4			e	52	34.00		eS	56	47.00					
OHR	98.29	50	iPd	42	49.10	0.3			e	53	24.00		eSP	57	52.00					
	1.7s	1118.00nm			6.9mb				e	55	30.00		eSPP	59	00.00					
			i	43	16.90	104kmX			e	56	50.00		eSSS	08	37.00					
			i	43	20.50				e	57	52.00									
PSZ	98.49	43	iP	42	49.30	-0.2	ALM	102.22	50	ePdif f43	06.40	-0.2	SHBJ	111.25	60	PKPc	48	01.19	19.3X	
BEO	98.50	46	P	42	50.20	0.7	PRK	102.28	52	ePdif f43	06.40	-0.1	ARO	115.04	82	iPKPd	47	49.50	-0.1	
			i(S)	52	27.50		EZN	102.36	51	ePdif f43	06.00	-0.8	BKR	115.32	49	iPKPd	44	06.00	1.4	
UPP	98.59	31	iP	42	49.40	-0.1	BUC1	102.43	47	ePdif f42	50.00	-17.0X	TAB	117.98	53	iPKP-	47	54.00	-0.7	
			i	42	52.10		MLR	102.43	46	iPdif f43	07.50	0.3	TIK	118.20	353	iPKP-	44	16.00	-0.4	
			iP	45	08.20	650kmX	KAP	102.72	56	ePdif f43	08.30	-0.3	KER	119.09	57	iPKPd	47	57.30	0.4	
			iSKS	52	26.00		JMB	102.72	49	ePdif f43	08.00	-0.4	RIV	120.22	220	ePKP	47	59.00	0.2	
			iS	53	25.00		PTT	102.80	44	ePdif f43	09.00	0.4				e	54	00.00		
			eP'P'	07	27.60		ISR	102.83	46	ePdif f43	09.00	0.1				e	55	27.00		
ITM	98.67	54	iPd	42	50.10	-0.4	SUF	102.85	28	iPdif f43	09.20	0.8				e	58	24.00		
FNA	98.69	50	eP	42	50.70	0.2		0.7s	18.70nm		5.8mb		CNB	120.34	218	iPKPc	47	57.90	-1.2	
SDN	98.77	325	eP	42	50.20	-0.2	SOD	102.90	23	iPdif f43	09.30	0.7				e	58	09.00		
KRA	98.77	41	ePd	42	50.30	-0.3	KEV	102.92	21	ePdif f43	09.66	1.1				e	01	50.00		
	Z 22s	5.10um			6.0Msz					epPc	45	21.01					e	49	19.30	
	E 22s	6.60um								e	47	30.00		CAN	120.55	217	iPKPd	47	57.90	-1.6
			i	42	52.00	5kmX				e	52	48.00					ePP	50	19.10	
			i	42	59.00					e	53	28.00					i	50	36.30	
			i	43	08.00					e	55	36.00					iPKKP	58	08.10	
			e	45	04.00					e	57	00.00					iSKKP	01	51.10	
			eS	54	46.00					e	58	50.00		BWA	121.51	218	ePKP	47	59.00	-1.6
EVR	98.79	52	iPd	42	52.00	0.9	VRI	102.99	45	ePdif f43	09.00	-0.5				ePKKP	58	05.00		
SKO	98.87	49	eP	42	50.30	-1.0	IZM	102.99	53	ePdif f43	09.00	-0.8				eSKKP	01	48.00		
	1.7s	689.00nm			6.8mb		CRZF	103.28	143	iPdif f43	14.00	3.2X	TEH	122.36	55	ePKP	48	03.00	-0.1	
			i	42	50.80	2kmX				e	47	35.00		PET	122.45	327	ePdif f44	36.00	0.3	
			i	42	52.00					ePP										

			iPKS	52	06.00		GUN	152.36	49	PKP	48	55.90	-1.0			e	50	31.80					
			iSKS	54	28.20		TIY	153.22	354	iPKPd	48	56.50	-0.9			e	54	19.00					
			iSKKS	57	13.50					e	49	20.00			IPM	169.69	127	ePKPd	49	13.90	-0.5		
			iPP	59	43.30					pPKP	51	18.00				1.0s	670.40nm	e	50	33.80			
			i	06	12.70					PP	52	55.00					e	52	49.80				
			i	07	15.00					SS	11	35.00					e	49	13.80	-0.6			
IRK	138.62	5	ePKP	48	24.50	-8.8X	TIA	153.87	345	PKPd	48	57.30	-0.9		NST	169.99	61	iPKPd	49	13.80	-0.7		
KSH	139.07	40	PKP	48	27.00	-7.7X				e	49	22.30			LOE	170.32	48	iPKPd	49	13.80	-0.7		
			SKS	54	44.00					pPKP	51	20.00					e	50	35.50				
MRWA	139.52	189	iPKPc	48	25.60	-10.0X	LZH	154.52	10	iPKPd	49	00.32	1.0				e	54	29.20				
WB5	140.60	219	ePKP	48	29.00	-8.8X	LZH	154.52	10	ePKPc	49	08.60	9.2X				e	50	35.50				
			e	51	18.00					ePKPob49	26.48				NNT	170.57	79	iPKPc	49	14.00	-0.7		
			eSKKP	59	27.80					epP'df51	21.69				KKM	171.53	235	ePKPd	49	14.20	-1.1		
			eSKKS	03	16.00					epPKPc51	28.64					1.5s	3969.80nm	e	50	33.80			
HIA	140.83	349	ePKPd	48	29.71	-7.7X				epP'ob51	39.57				PCT	171.54	63	iPKPc	49	15.50	0.4		
			e	50	55.05					iHPP	53	01.74				1.0s	7.80nm	e	50	42.70			
			e	51	14.90					ePP	53	02.23					e	49	15.50	0.3			
			e	51	15.91					eSKS	55	10.00			QIZ	171.96	356	iPKPc	49	15.50	0.3		
			iPP	51	41.39					eSKKS	58	53.00					e	50	43.00				
			eHPP	51	42.22		LSA	154.88	39	iPKPd	49	00.20	-0.2				pPKP	51	37.50				
MEKA	141.56	193	ePKP	48	32.00	-7.3X				SKKS	58	54.00					PP	54	33.00				
MNDI	141.74	245	ePKP	48	36.50	-3.8X	XAN	157.04	1	PKP	49	02.20	-0.3				SKKS	00	19.50				
MDJ	142.17	336	iPKPd	48	34.60	-5.2X				e	49	38.00			S.D. = 1.0 on 608 of 685 obs.								
			PP	51	55.00					pPKP	51	18.00											
			SKKS	57	40.00					PP	53	17.00											
WMO	142.34	26	ePKPd	48	36.12	-4.1X	SSE	157.11	333	iPKPd	49	02.00	-0.6										
			SS	09	34.60					e	49	36.00											
			S	51	48.00					pPKP	51	23.00											
MAT	143.50	319	iPKPd	48	40.50	-1.9				PP	53	16.00											
CN2	144.40	340	iPKPd	48	41.00	-2.6X				SKS	55	12.00											
			pPKP	50	58.00					SKKS	59	02.00											
			PP	52	03.00					SS	12	16.00											
			SKKS	57	52.00					NJ2	157.21	338	iPKPd	49	02.00	-0.7							
POO	145.03	73	iPKPd	48	42.40	-3.1X				i	49	36.00											
	0.9s	680.67nm								iPKP	51	23.00											
GUA	145.05	278	ePKP	48	44.20	-1.3				sPKP	52	18.00											
	1.0s	4584.00nm								iPP	53	15.00											
			pP	51	04.50					SKKS	59	04.00											
GUMD	145.09	278	ePKPc	48	41.49	-4.1X				PKP	49	04.80	-0.6										
			epP'df51	02	53					e	49	48.40											
PJG	145.09	278	ePKP	48	44.10	-1.5	CD2	159.52	14														
NDI	145.28	55	iPKPd	48	45.50	-0.1				pPKP	51	27.00											
			ePP	52	04.00					PP	53	30.40											
NANU	146.11	190	iPKPd	48	45.50	-1.5				SKKS	59	18.00											
MBL	146.41	198	iPKPd	48	45.90	-1.7	WHN	159.95	347	PKPd	49	05.50	-0.2										
SNY	146.78	340	PKPd	48	46.30	-1.2				e	49	50.00											
			pPKP	51	06.00					iPKP	51	27.00											
			PP	52	18.00					PP	53	32.20											
			SKKS	58	09.00					iSKKS	59	20.00											
KNA	147.15	216	iPKPd	48	48.00	-0.8	MKS	160.96	213	iPKPd	49	09.00	1.8										
	0.8s	486.00nm					ANP	161.68	322	iPKPd	49	08.00	0.3										
MTN	147.86	223	iPKPd	48	48.70	-1.3	QZH	163.50	329	iPKPd	49	11.00	1.6										
	0.5s	209.00nm								i	50	04.20											
SHK	148.26	321	ePKPd	48	49.50	-0.7				pPKP	51	31.00											
GBA	148.84	82	PKPd	48	49.80	-1.7				sPKP	52	17.00											
HYB	149.61	74	iPKPd	48	51.40	-1.3				PP	53	51.50											
	1.0s	1180.00nm								SKKS	59	38.00											
			iPP	51	13.20		GYA	164.40	9	iPKPd	49	10.00	-0.4										
			e	52	10.00					e	50	10.00											
			i	52	36.00					pPKP	51	32.00											
DL2	150.06	340	PKP	48	52.00	-0.7				sPKP	52	22.00											
			pPKP	51	12.00					PP	53	56.00											
			PP	52	39.00					SKKS	59	42.00											
			SKKS	58	24.00		KMI	164.64	23	iPKPd	49	10.51	-0.3										
HMC	150.17	356	iPKPd	48	53.60	0.6				ePKPob50	09.11												
			pPKP	51	16.00					ePKPob50	09.90												
			PP	52	36.00					eHP'ob50	10.39												
			SKKS	58	27.00					epP'df51	32.54												
BJI	150.40	349	iPKPd	48	53.69	0.5				epP'ob52	18.33												
			pPKP	51	09.00					epP'ob52	22.53												
			epP'df51	14	07					e	53	19.65											
			eSKP	52	38.05					ePP	53	53.93											
			eSKS	54	57.00					eHPP	53	57.31											
GTA	150.46	15	iPKPd	48	53.00	-0.5				eSKKS	59	43.00											
			e	49	08.00		BKB2	165.65	213	ePKPc	49	14.10	2.5										
			pPKP	51	13.80		GZH	167.32	342	PKP	49	13.80	1.2										
			sPKP	52	08.00					e	50	21.50											
			PP	52	36.00					pPKP	51	34.00											
			SKKS	58	29.00					PP	54	08.00											
			SS	11	05.50					SKKS	59	59.00											
BTO	150.48	359	iPKPc	48	53.00	-0.5	HKC	167.78	338	iPKPc	49	14.30	1.4										
			pPKP	51	14.00		MCO	168.16	340	ePKP	49	14.00	0.8										
			SKKS	58	26.50		BDT	168.29	57	iPKPd	49	13.50	0.2										
GKN	151.38	50	PKP	48	54.30	-1.0	KLM	169.16	136	ePKPc	49	12.50	-1.5										
DMN	151.94	50	PKP	48	55.50	-0.7		1.0s	1175.20nm														
KKN	151.98	50	PKP	48	55.20	-1.0	KGM	169.35	146	ePKP	49	13.50	-0.6										
PKI	152.19	50	PKP	48	55.20	-1.4		1.5s	3055.40nm														

VAY 21.20 290 eP 11 12.40 -1.8
SKO 22.09 292 eP 11 26.70 3.5X
OHR 22.53 290 eP 11 22.50 -5.1X
SPC 24.39 309 eP 11 54.90 9.1X
NDI 24.76 101 eP 11 50.50 1.2
KRA 24.88 311 eP 11 59.00 9.6X
12 04.00 15km
12 22.00 9.0X
12 25.00 2.8
12 32.00 -0.2
12 32.00 -0.7
12 36.00 0.3
12 44.50 29km
12 36.10 0.1
0.5s 6.90nm 4.7mb
12 41.40 18km
12 45.40 -0.3
12 50.00 0.2
12 50.00 -0.3
12 52.60 -0.3
12 53.60 -1.4
12 59.00 0.7
0.8s 18.80nm 5.1mb
12 57.40 -1.2
0.9s 15.00nm 4.9mb
13 02.00 -0.5
0.7s 3.30nm 4.4mb
13 02.00 -0.5
0.7s 4.40nm 4.5mb
13 10.40 -1.4
0.7s 2.90nm 4.3mb
13 13.00 -0.8
13 26.40 1.2
13 59.00 -0.2
0.7s 3.60nm 4.2mb
14 27.00 0.2
0.5s 4.00nm 4.4mb
14 46.00 2.8
14 58.10 -0.3
16 09.60 -1.1
16 19.40 -0.6
16 21.40 -0.7
16 43.80 18.5X
16 50.50 22km
18 24.00 0.2
S.D. = 1.2 on 33 of 45 obs.

KSP 27.34 311 eP
NUR 28.37 334 eP
CLL 29.46 311 eP
SUF 29.53 338 eP
WMO 29.83 65 P

SQTA 29.86 302 iP
0.5s 6.90nm 4.7mb
12 41.40 18km
12 45.40 -0.3
12 50.00 0.2
12 50.00 -0.3
12 52.60 -0.3
12 53.60 -1.4
12 59.00 0.7
0.8s 18.80nm 5.1mb
12 57.40 -1.2
0.9s 15.00nm 4.9mb
13 02.00 -0.5
0.7s 3.30nm 4.4mb
13 02.00 -0.5
0.7s 4.40nm 4.5mb
13 10.40 -1.4
0.7s 2.90nm 4.3mb
13 13.00 -0.8
13 26.40 1.2
13 59.00 -0.2
0.7s 3.60nm 4.2mb
14 27.00 0.2
0.5s 4.00nm 4.4mb
14 46.00 2.8
14 58.10 -0.3
16 09.60 -1.1
16 19.40 -0.6
16 21.40 -0.7
16 43.80 18.5X
16 50.50 22km
18 24.00 0.2
S.D. = 1.2 on 33 of 45 obs.

GKN 30.93 96 P
DMN 31.48 97 P
KKN 31.54 96 P
PKI 31.74 97 P
GUN 31.96 96 P
SBF 32.40 296 eP
0.8s 18.80nm 5.1mb
12 57.40 -1.2
0.9s 15.00nm 4.9mb
13 02.00 -0.5
0.7s 3.30nm 4.4mb
13 02.00 -0.5
0.7s 4.40nm 4.5mb
13 10.40 -1.4
0.7s 2.90nm 4.3mb
13 13.00 -0.8
13 26.40 1.2
13 59.00 -0.2
0.7s 3.60nm 4.2mb
14 27.00 0.2
0.5s 4.00nm 4.4mb
14 46.00 2.8
14 58.10 -0.3
16 09.60 -1.1
16 19.40 -0.6
16 21.40 -0.7
16 43.80 18.5X
16 50.50 22km
18 24.00 0.2
S.D. = 1.2 on 33 of 45 obs.

HFS 32.48 327 eP
LPG 32.86 299 eP
LPL 32.87 299 eP
NB2 33.99 327 P
GBA 34.18 125 P
LSA 35.45 89 P
EKA 39.70 315 P
BCAO 42.91 229 iPd
0.5s 4.00nm 4.4mb
14 46.00 2.8
14 58.10 -0.3
16 09.60 -1.1
16 19.40 -0.6
16 21.40 -0.7
16 43.80 18.5X
16 50.50 22km
18 24.00 0.2
S.D. = 1.2 on 33 of 45 obs.

CD2 45.05 81 eP
CHG 46.86 99 eP
CN2 56.51 57 eP
KIC 57.78 252 Pd
LIC 58.09 252 P
SSE 58.56 73 eP
FBA 77.64 7 (P)
S.D. = 1.2 on 33 of 45 obs.

% OCT 17, 1990 17h 12m 39.38 ± 2.56s
39.920 N ± 22.6km 28.835 E ± 5.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.5 (ISK).

KCT 0.49 312 iPg 12 49.40 0.0
IZI 0.64 49 ePg 12 52.40 0.1
YLV 0.77 32 iPg 12 54.40 0.0
BNT 0.83 302 iPg 12 54.70 -0.7
EDC 0.86 300 ePg 12 56.00 0.9
HRT 1.10 35 ePn 13 00.00 -0.1
CTT 1.26 346 iPn 13 02.90 0.0
KGT 1.29 295 ePn 13 03.00 -0.2
S.D. = 0.5 on 8 of 8 obs.

? OCT 17, 1990 18h 17m 16.69 ± 1.55s
45.420 N ± 13.1km 14.196 E ± 12.0km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)

RIY 0.15 119 iPg 17 20.20 -0.1
CEY 0.36 27 ePg 17 24.60 0.5
TRI 0.42 314 ePg 17 25.60 0.8
VOY 0.65 341 e(Pg) 17 28.50 -1.2
S.D. = 1.5 on 4 of 4 obs.

? OCT 17, 1990 20h 14m 35.64 ± 2.20s
16.669 S ± 88.2km 69.688 W ± 11.9km
DEPTH = 203.1 ± 23.3 km
PERU-BOLIVIA BORDER REGION (118)

LPB 1.53 85 P 15 10.40 -0.3

ZOBO 1.55 75 Pd 15 11.20 0.1
CNCB 1.64 95 iPd 15 12.00 0.1
ARE 1.74 277 iPc 15 12.50 0.0
SIV 8.30 87 P 15 39.50 0.0
S.D. = 0.3 on 5 of 5 obs.

% OCT 17, 1990 20h 32m 23.37 ± 1.46s
17.635 N ± 13.6km 98.749 W ± 13.7km
DEPTH = 33.0km (normol)
GUERRERO, MEXICO (59)

III 1.01 317 iPd 32 40.36 -1.0
ACX 1.30 234 iPc 32 45.85 0.4
PPM 1.43 5 iPd 32 48.44 0.8
IIT 1.44 17 iP 32 48.97 1.3
OXX 2.01 106 (P) 33 05.02 9.2X
IJJ 2.29 336 iP 32 59.75 -0.3
(S) 33 16.21
LVVM 3.02 46 (P) 33 08.70 -1.3
(S) 33 34.08
MRX 3.10 312 (P) 33 21.71 10.6X
(S) 33 57.22
EVV 3.34 75 (P) 33 34.00 19.5X
S.D. = 1.3 on 6 of 9 obs.

% OCT 17, 1990 21h 12m 30.86 ± 0.54s
43.120 N ± 6.5km 0.687 W ± 3.7km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
MD 1.0 (STR).

ATE 0.04 199 Pg 12 33.17 0.2
ESCF 0.09 117 Pg 12 34.67
MADF 0.10 285 Pg 12 33.61 0.1
ISSF 0.12 221 Pg 12 33.87 0.3
Sg 12 36.37
OGE 0.16 73 Pg 12 34.17 0.2
Sg 12 36.71
LHE 0.21 167 Pg 12 34.73 0.1
Sg 12 37.96
ELYF 0.23 283 Pg 12 35.32 -0.2
Sg 12 35.54 -0.3
Sg 12 39.28
BOH 0.24 266 Pg 12 35.86 -0.2
Sg 12 40.04
JAU 0.25 109 Pg 12 35.99 -0.2
Sg 12 36.71

% OCT 17, 1990 21h 50m 45.87 ± 0.52s
34.646 N ± 11.6km 58.226 E ± 7.1km
DEPTH = 11.6km (2 depth phases)
4.6mb (7 obs.)
IRAN (348)
Felt at Bajestan.

MAIO 1.95 32 iPd 51 18.00 -0.4
0.4s 73.21nm
eSn 51 45.00
TEH 5.71 283 eP 52 10.00 -2.7
KER 9.18 271 e(P) 53 14.00 12.7X
NDI 17.22 105 eP 54 49.00 1.3
GKN 23.47 99 P 55 55.20 -1.2
0.6s 14.00nm 4.7mb
DMN 24.01 100 P 56 02.60 0.9
KKN 24.08 99 P 56 01.60 -0.7
0.6s 15.00nm 4.8mb
PKI 24.27 99 P 56 03.80 -0.5
GUN 24.52 98 P 56 06.20 -0.6
0.8s 40.00nm 5.1mb
MLR 26.81 304 eP 56 30.00 2.2X
GBA 27.22 136 P 56 31.90 0.3
0.7s 1.70nm 3.9mb
KRA 31.81 311 eP 57 12.00 0.5
NUR 33.73 330 eP 57 30.00 1.1
KHC 35.71 308 eP 57 47.00 0.9
BRG 35.73 311 eP 57 47.40 1.2
1.4s 12.00nm 4.6mb
CLL 36.39 311 eP 57 56.00 4.3X
HFS 38.36 326 eP 58 07.00 -1.2
0.6s 1.00nm 3.7mb
CHG 39.35 103 eP 58 16.30 -0.6
CHTO 39.35 103 P 58 16.50 -0.4

% OCT 17, 1990 21h 50m 45.87 ± 0.52s
34.646 N ± 11.6km 58.226 E ± 7.1km
DEPTH = 11.6km (2 depth phases)
4.6mb (7 obs.)
IRAN (348)
Felt at Bajestan.

MAIO 1.95 32 iPd 51 18.00 -0.4
0.4s 73.21nm
eSn 51 45.00
TEH 5.71 283 eP 52 10.00 -2.7
KER 9.18 271 e(P) 53 14.00 12.7X
NDI 17.22 105 eP 54 49.00 1.3
GKN 23.47 99 P 55 55.20 -1.2
0.6s 14.00nm 4.7mb
DMN 24.01 100 P 56 02.60 0.9
KKN 24.08 99 P 56 01.60 -0.7
0.6s 15.00nm 4.8mb
PKI 24.27 99 P 56 03.80 -0.5
GUN 24.52 98 P 56 06.20 -0.6
0.8s 40.00nm 5.1mb
MLR 26.81 304 eP 56 30.00 2.2X
GBA 27.22 136 P 56 31.90 0.3
0.7s 1.70nm 3.9mb
KRA 31.81 311 eP 57 12.00 0.5
NUR 33.73 330 eP 57 30.00 1.1
KHC 35.71 308 eP 57 47.00 0.9
BRG 35.73 311 eP 57 47.40 1.2
1.4s 12.00nm 4.6mb
CLL 36.39 311 eP 57 56.00 4.3X
HFS 38.36 326 eP 58 07.00 -1.2
0.6s 1.00nm 3.7mb
CHG 39.35 103 eP 58 16.30 -0.6
CHTO 39.35 103 P 58 16.50 -0.4

% OCT 17, 1990 21h 50m 45.87 ± 0.52s
34.646 N ± 11.6km 58.226 E ± 7.1km
DEPTH = 11.6km (2 depth phases)
4.6mb (7 obs.)
IRAN (348)
Felt at Bajestan.

% OCT 17, 1990 21h 50m 45.87 ± 0.52s
34.646 N ± 11.6km 58.226 E ± 7.1km
DEPTH = 11.6km (2 depth phases)
4.6mb (7 obs.)
IRAN (348)
Felt at Bajestan.

% OCT 17, 1990 21h 50m 45.87 ± 0.52s
34.646 N ± 11.6km 58.226 E ± 7.1km
DEPTH = 11.6km (2 depth phases)
4.6mb (7 obs.)
IRAN (348)
Felt at Bajestan.

% OCT 17, 1990 21h 50m 45.87 ± 0.52s
34.646 N ± 11.6km 58.226 E ± 7.1km
DEPTH = 11.6km (2 depth phases)
4.6mb (7 obs.)
IRAN (348)
Felt at Bajestan.

BCAO 47.47 240 pP 58 20.00 12km
0.5s 5.00nm 4.9mb
FBA 78.71 11 P 02 50.00 0.8
pP 02 53.60 12km
S.D. = 1.2 on 18 of 21 obs.

* OCT 17, 1990 22h 05m 35.39 ± 0.75s
19.809 S ± 7.8km 69.422 W ± 11.3km
DEPTH = 121.7 ± 14.2 km
NORTHERN CHILE (123)

CNCB 3.28 25 P 06 27.00 0.3
LPB 3.49 21 P 06 30.00 0.6
ZOBO 3.73 20 P 06 32.20 -0.6
ARE 3.87 329 iPd 06 34.50 0.1
iS 07 15.50
CCH 3.94 53 P 06 34.00 -0.5
ANT 3.99 193 e(P) 06 35.50 -0.1
SIV 8.81 66 iPc 07 36.00 -5.3X
PPD 17.06 101 eP 09 28.50 0.5
KIC 68.71 75 (P) 16 20.00 -0.2
S.D. = 0.6 on 8 of 9 obs.

? OCT 17, 1990 22h 06m 47.90 ± 10.12s
36.862 N ± 62.3km 2.102 W ± 53.6km
DEPTH = 10.0km (geophysicist)
STRAIT OF GIBRALTAR (385)
mbLg 2.3 (MDD).

ENIJ 0.14 320 iP 06 50.40 -0.9
eS 06 52.20
ALM 0.29 268 eP 06 53.10 -0.8
eS 06 58.10
AFC 1.22 289 eP 07 09.90 -0.8
eS 07 25.40
ECOG 1.24 290 eP 07 11.20 0.1
eS 07 26.40
EVIA 1.88 350 eP 07 18.20 -1.1
eS 07 41.00
EBAN 1.87 315 eP 07 22.40 2.2
eS 07 44.90
S.D. = 1.6 on 6 of 6 obs.

OCT 17, 1990 22h 48m 01.89 ± 0.96s
41.604 N ± 11.0km 23.948 E ± 5.7km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)

MM8 0.17 265 iPg 48 05.00 -0.7
Sg 48 08.00
KKB 0.70 292 iPg 48 15.00 -0.7
iSg 48 24.00
PLD 0.75 48 ePg 48 17.00 0.4
eSg 48 30.00
PGB 0.96 10 iPg 48 19.00 -1.2
iSg 48 33.00
VAY 1.07 255 ePn 48 23.20 1.1
KDZ 1.10 87 iPg 48 21.00 -1.6
iSg 48 37.00
VTS 1.13 331 ePg 48 24.00 0.8
eSg 48 41.00
DIM 1.27 69 eP 48 27.00 1.6
i 48 45.00
PVL 1.91 32 eP 48 35.00 0.2
S.D. = 1.3 on 9 of 9 obs.

OCT 17, 1990 23h 24m 38.50 ± 0.64s
16.633 S ± 5.1km 71.351 W ± 5.3km
DEPTH = 40.1 ± 6.0 km
5.0mb (21 obs.)
SOUTHERN PERU (117)
Felt (IV) in the Arequipa area.

ARE 0.22 322 iPc 24 47.20 0.9
ZOBO 3.12 84 iPc 25 36.00 9.1X
LPB 3.12 89 P 25 36.00 9.1X
1.0s 1880.00nm
CNCB 3.23 94 iPc 25 37.80 9.2X
CCH 5.04 99 P 26 01.00 7.1X
i 26 17.60
ANT 7.09 173 iPc 26 19.40 -3.0
SIV 9.89 88 P 27 03.20 1.9
MDZ 16.34 172 eP 27 27.30 0.6
PEL 16.45 178 eP 28 27.50 -0.6
FCH 16.65 177 eP 28 31.50 0.6
LNV 17.25 180 eP 28 33.00 -5.0X

OCT 17, 1990 23h 24m 38.50 ± 0.64s
16.633 S ± 5.1km 71.351 W ± 5.3km
DEPTH = 40.1 ± 6.0 km
5.0mb (21 obs.)
SOUTHERN PERU (117)
Felt (IV) in the Arequipa area.

OCT 17, 1990 23h 24m 38.50 ± 0.64s
16.633 S ± 5.1km 71.351 W ± 5.3km
DEPTH = 40.1 ± 6.0 km
5.0mb (21 obs.)
SOUTHERN PERU (117)
Felt (IV) in the Arequipa area.

OCT 17, 1990 23h 24m 38.50 ± 0.64s
16.633 S ± 5.1km 71.351 W ± 5.3km
DEPTH = 40.1 ± 6.0 km
5.0mb (21 obs.)
SOUTHERN PERU (117)
Felt (IV) in the Arequipa area.

OCT 17, 1990 23h 24m 38.50 ± 0.64s
16.633 S ± 5.1km 71.351 W ± 5.3km
DEPTH = 40.1 ± 6.0 km
5.0mb (21 obs.)
SOUTHERN PERU (117)
Felt (IV) in the Arequipa area.

17d 23h

PPD 19.65 109 eP 29 07.00 0.0
BAO 22.46 91 eP 29 35.50 -0.3
JFO 26.93 105 eP 30 18.00 0.6
SOB1 30.56 80 eP 30 51.20 0.4
SGS 50.31 350 P 33 33.00 -0.3
JSC 51.50 350 P 33 41.80 -0.5
TKL 53.32 347 P 33 54.20 -1.7
GBTN 53.42 347 P 33 55.00 -1.6
RSCP 53.67 346 P 33 56.80 -1.7
BLA 54.23 351 P 34 02.60 0.0
NAV 54.39 351 P 34 03.80 0.0
OLY 55.25 340 P 34 08.30 -1.7
TUL 57.15 336 iP 34 22.20 -1.5
0.7s 27.20nm 5.4mb
FVM 57.21 342 P 34 22.40 -1.6
MEO 57.31 333 iPc 34 24.50 -0.3
0.9s 33.70nm 5.4mb
CLE 58.59 351 iP 34 32.90 -0.7
ANMO 61.18 327 P 34 51.40 -0.4
0.9s 7.35nm 4.8mb
GLD 64.37 332 P 35 13.20 0.3
1.2s 17.68nm 5.0mb
GOL 64.40 331 P 35 12.50 -0.7
BAR 65.44 319 eP 35 20.00 0.3
TPC 66.00 320 eP 35 24.00 0.7
PLM 66.01 319 eP 35 24.00 0.5
GSC 67.27 321 eP 35 32.00 0.6
SBB 67.49 320 eP 35 33.00 0.2
DAU 67.80 328 P 35 35.00 0.1
CLC 68.09 321 eP 35 37.00 0.5
DUG 68.44 327 P 35 39.10 0.4
1.1s 23.03nm 5.1mb
ISA 68.53 320 eP 35 40.00 0.8
BW06 68.77 331 P 35 39.80 -1.0
1.3s 13.66nm 4.8mb
BCH 69.22 319 P 35 44.40 0.8
TNP 69.39 323 P 35 45.20 0.5
TIC 69.54 76 (P) 35 45.00 -0.8
KIC 69.70 77 (P) 35 45.80 -0.9
PRI 70.19 319 eP 35 50.20 0.7
LLA 70.67 320 eP 35 52.80 0.5
CMB 71.23 321 eP 35 55.90 0.2
ARN 71.50 320 P 35 58.20 0.9
MHC 71.56 320 eP 35 59.00 1.2
ORV 72.87 322 eP 36 06.40 1.1
WDC 74.14 322 eP 36 12.10 -0.6
LBFM 74.24 323 P 36 14.00 0.5
SES 75.31 335 eP 36 20.00 0.7
NEW 76.40 330 P 36 25.80 0.3
PNT 78.32 330 eP 36 37.00 1.0
0.7s 14.00nm 5.1mb
EPF 88.43 44 eP 37 27.80 0.0
0.7s 2.75nm 4.7mb
LFF 89.48 43 eP 37 32.80 0.1
0.7s 6.60nm 5.1mb
LPF 89.66 39 eP 37 32.90 -0.5
0.9s 9.85nm 5.1mb
LPO 89.66 43 eP 37 33.70 0.1
0.8s 8.05nm 5.1mb
GRR 89.92 39 eP 37 34.30 -0.4
0.8s 8.05nm 5.1mb
RJF 90.13 42 eP 37 35.70 0.0
0.8s 5.35nm 4.9mb
FLN 90.31 39 eP 37 36.30 -0.2
CAF 90.33 43 eP 37 36.90 0.2
0.8s 4.70nm 4.9mb
LDF 90.45 39 eP 37 37.00 -0.1
0.8s 8.05nm 5.1mb
LSF 90.52 42 eP 37 37.40 -0.1
0.7s 3.30nm 4.8mb
TCF 90.96 42 eP 37 39.40 -0.2
0.8s 3.35nm 4.8mb
MAF 91.17 42 eP 37 40.50 0.0
BGF 91.47 42 eP 37 41.80 -0.1
0.7s 6.05nm 5.1mb
AVF 91.89 42 eP 37 43.50 -0.2
SSF 92.09 41 eP 37 44.30 -0.4
SMF 92.14 42 eP 37 45.00 0.0
0.9s 7.35nm 5.1mb
LPL 93.62 44 eP 37 52.30 0.2
0.8s 3.35nm 4.8mb
LPG 93.62 44 eP 37 52.30 0.1
0.9s 4.10nm 4.9mb
WB5 135.78 216 ePKP 43 56.80 -0.6
POO 146.80 81 ePKP 44 18.50 1.5
MAT 147.16 313 iPKPc 44 19.10 2.1X
0.8s 29.10nm

NDI 148.71 62 ePKP 44 21.50 1.8
KOD 149.04 98 ePKP 44 25.20 4.2X
GBA 149.73 91 PKPd 44 22.80 1.2
0.5s 8.20nm
KKN 155.73 59 PKP 44 40.20 10.1X
GUN 156.17 58 PKP 44 39.00 8.1X
S.D. = 0.9 on 72 of 81 obs.

OCT 18, 1990 00h 19m 25.90 ± 0.74s
34.542 N ± 7.6km 33.052 E ± 10.1km
DEPTH = 33.0km (normal)
CYPRUS (372)

ML 3.2 (CSS).
CSS 0.48 29 eP 19 36.20 0.0
eSg 19 45.00 0.0
PPCY 0.68 301 eP 19 39.00 0.0
ADI 2.32 128 eP 20 03.00 0.4
ZNT 2.83 144 eP 20 10.50 0.7
eS 20 42.50 0.0
SHMJ 2.90 128 Pc 20 10.70 -0.1
CSTJ 4.57 137 P 20 33.60 -1.0
SHWJ 4.63 153 P 20 36.30 0.7
MBH 5.00 161 eP 20 40.00 -0.6
S.D. = 0.7 on 8 of 8 obs.

% OCT 18, 1990 00h 30m 35.88 ± 1.37s
61.309 N ± 9.9km 5.081 E ± 11.5km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)

MD 2.7 (BER). Felt.
SUE 0.30 212 iPc 30 42.03 0.0
iS 30 46.36 0.0
HYA 0.55 105 iP 30 48.01 0.9
iS 30 56.70 0.0
ASK 0.83 176 iP 30 52.10 0.2
eS 31 03.36 0.0
BER 0.94 172 iPc 30 53.85 0.1
iS 31 07.50 0.0
MOL 1.72 42 eP 31 06.43 0.4
eSg 31 29.13 0.0
BLS2 2.22 155 iPc 31 13.19 -0.2
iSg 31 45.73 0.0
NRA0 3.20 98 Pn 31 25.60 -1.5
Pg 31 30.70 0.0
Sg 32 14.00 0.0
S.D. = 0.9 on 7 of 7 obs.

& OCT 18, 1990 00h 38m 52.14s
60.820 N 151.609 W
DEPTH = 70.2km
KENAI PENINSULA, ALASKA (14)
<AGS-P>.

NKA 0.20 113 iP 39 04.51 1.6
eS 39 13.99 0.0
RDT 0.46 238 iP 39 04.20 -0.7
eS 39 14.41 0.0
CKL 0.52 317 iP 39 04.65 -0.8
CRP 0.52 330 iP 39 05.04 -0.5
eS 39 15.41 0.0
BGL 0.59 320 iP 39 05.45 -0.7
eS 39 16.40 0.0
RSO 0.67 238 iP 39 06.51 -0.6
eS 39 18.03 0.0
RED 0.70 235 iP 39 06.65 -0.7
eS 39 18.20 0.0
SUA 0.77 33 iP 39 07.86 -0.4
eS 39 20.26 0.0
NNL 0.80 169 eP 39 09.07 0.7
PMS 1.08 66 eP 39 11.74 -0.3
eS 39 27.65 0.0
BRK 1.12 161 eP 39 12.18 -0.3
eS 39 28.70 0.0
SKT 1.17 2 eP 39 12.16 -0.9
eS 39 28.38 0.0
PWA 1.18 44 eP 39 13.13 -0.1
SEW 1.29 123 eP 39 13.86 -0.8
CNPM 1.31 172 eP 39 14.56 -0.4
eS 39 32.06 0.0
OPT 1.42 215 eP 39 15.99 -0.5
PLRM 1.43 56 eP 39 15.44 -1.1
eS 39 35.21 0.0
PMR 1.43 56 iPc 39 15.60 -0.9
GHO 1.61 52 eP 39 18.14 -1.0
eS 39 39.05 0.0

PDB 1.65 232 eP 39 17.87 -1.7
eS 39 38.17 0.0
CUT 1.71 21 eP 39 19.63 -0.8
KNIM 1.97 102 eP 39 21.56 -2.4
SVW 1.98 280 iPd 39 21.70 -2.4
MTU 2.13 111 eP 39 24.18 -2.0
MCNL 2.14 221 eP 39 24.99 -1.3
CDD 2.16 209 eP 39 25.54 -1.0
GLI 2.21 86 eP 39 24.55 -2.7
SCM 2.30 62 eP 39 27.29 -1.3
HUR 2.36 22 eP 39 29.57 0.2
VZW 2.48 82 eP 39 28.83 -2.2
VLZ 2.59 81 eP 39 30.49 -2.0
KLU 2.84 74 eP 39 34.05 -2.1
RND 2.90 25 eP 39 36.91 -0.1
TOA 2.91 61 iPc 39 36.10 -1.0
TTA 2.97 317 iPc 39 36.20 -1.8
35 obs. associated

* OCT 18, 1990 01h 01m 38.98 ± 0.71s
19.967 N ± 11.0km 121.187 E ± 11.7km
DEPTH = 33.0km (normal)
4.6mb (6 obs.)
PHILIPPINE ISLANDS REGION (248)

OZH 5.50 335 Pn 02 58.00 -2.7
Sn 03 57.00 0.0
MCO 7.44 288 eP 03 26.50 -1.5
GZH 7.93 294 P 03 32.00 -2.9
OIZ 10.74 267 eP 04 13.80 0.2
0.5s 20.00nm 5.6mb
eS 06 08.40 0.0
XAN 17.75 325 P 05 46.00 0.7
CD2 19.12 308 P 06 02.50 0.5
Z 16s 1.07um 0.0
TIY 19.25 339 Pd 06 04.70 1.1
BJI 20.46 349 eP 06 22.00 5.5X
1.0s 24.00nm 4.5mb
Z 20s 0.30um 3.7Msz
CHG 21.01 271 eP 06 25.30 3.0X
LZH 22.13 320 eP 06 34.00 0.4
2.0s 32.00nm 4.4mb
Z 14s 0.40um 4.0MszX
eS 06 45.00 0.0
eS 10 30.00 0.0
GUN 33.14 291 P 08 16.40 1.5
PKI 33.52 290 P 08 19.00 0.8
KKN 33.65 290 P 08 20.30 1.1
DMN 33.79 290 P 08 21.80 1.3
GKN 34.24 291 P 08 25.10 0.9
WB5 41.65 161 eP 09 25.00 -1.1
OIS 44.13 155 iPd 09 45.50 -0.7
ASPA 45.11 163 iPd 09 54.00 -0.1
0.5s 22.10nm 5.3mb
FBA 72.55 27 P 13 04.00 -0.4
SLL 81.26 332 eP 13 52.70 -0.3
0.7s 2.70nm 4.4mb
NB2 81.94 332 P 13 56.40 -0.2
1.1s 4.40nm 4.4mb
KSP 83.73 322 ePd 14 07.50 1.6
S.D. = 1.4 on 20 of 22 obs.

OCT 18, 1990 01h 19m 52.29 ± 0.34s
42.406 N ± 3.3km 1.446 E ± 3.4km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)

ML 3.3 (LDG). mbLg 3.2 (MDD).
EPF 1.03 308 Pg 20 11.60 -0.1
ETER 1.05 95 iP 20 12.40 0.3
eS 20 27.00 0.0
EROO 1.76 207 iPnc 20 24.60 1.6
eSn 20 45.50 0.0
LPO 2.28 355 Pn 20 31.60 1.0
Sg 21 05.80 0.0
CAF 2.56 10 Pn 20 34.60 0.1
Sg 21 14.60 0.0
LFF 2.58 349 Pn 20 35.40 0.6
Sg 21 14.60 0.0
ESEL 2.85 157 ePn 20 38.00 -0.7
eSn 21 11.40 0.0
RJF 2.90 1 Pn 20 40.10 0.8
Sg 21 25.40 0.0
ECRI 2.93 275 ePn 20 40.20 0.3
eSn 21 16.00 0.0
ETOR 3.07 240 ePn 20 41.90 0.1
eSn 21 18.70 0.0

ECHE	3.36	214	ePn	20 45.90	0.0	GLM	2.36	36	iP	56 06.19	-0.9	STK	26.97	156	iPc	12 30.00	-1.6
			eSn	21 25.00		NKA	2.39	187	eP	56 10.25	2.9		0.7s	27.00nm			5.0mb
LRG	3.76	72	Pn	20 51.60	0.1	SDG	2.41	102	eP	56 07.03	-0.6			eS		17 30.10	
			Sn	21 35.60		TTA	2.46	268	iPd	56 07.50	-0.8	MUN	27.37	205	iPc	12 35.00	-0.1
LMR	3.84	74	Pn	20 52.90	0.3	RDT	2.68	199	eP	56 10.52	-0.7	NWAO	27.80	202	iPd	12 29.20	-9.9X
			Sn	21 35.80		KLU	2.74	124	eP	56 10.36	-1.6	CMS	28.56	149	eP	12 45.50	-0.4
LSF	3.84	1	Pn	20 53.00	0.3				eS	56 44.56				eS		18 10.00	
			Sg	21 54.30		GLI	2.79	142	iP	56 11.07	-1.5	ADE	28.82	164	iPc	12 48.10	-0.2
MAF	3.90	12	Pn	20 52.60	-0.9	VZW	2.81	135	eP	56 12.22	-0.7	RKG	28.91	201	eP	12 54.00	5.0X
			Pg	21 05.90		VLZ	2.83	133	eP	56 11.18	-1.9	COO	31.35	140	eP	13 10.60	-0.2
			Sg	21 55.60		RSO	2.84	202	eP	56 13.10	-0.4	SNG	32.02	296	eP	13 17.20	0.4
TCF	3.92	8	Pn	20 53.70	-0.1	RED	2.89	202	eP	56 13.48	-0.4	BFD	32.05	160	iPd	13 17.00	0.2
			Sg	21 56.60		DOT	3.01	77	iP	56 14.35	-1.2			e		19 40.00	
FRF	3.99	71	Pn	20 54.60	-0.1	SEW	3.07	169	iP	56 15.20	-1.0	BWA	32.21	149	eP	13 18.80	0.5
			Sn	21 39.20		SVW	3.09	232	iPc	56 16.00	-0.6	CAN	33.21	150	eP	13 27.20	0.3
BGF	4.27	13	Pn	20 58.60	-0.2	NNL	3.10	186	eP	56 17.42	0.8	CNB	33.39	149	eP	13 29.00	0.5
			Pg	21 12.40		KNIM	3.10	152	iP	56 14.58	-2.1			e		20 12.00	
			Sg	22 06.90		IMA	3.25	338	iPd	56 17.60	-1.2	BDT	38.63	309	eP	14 15.00	1.9
MFF	4.35	345	Pn	21 00.30	0.4	BRK	3.36	182	eP	56 19.72	-0.5		1.0s	31.10nm			5.1mb
			Pg	21 15.90		MTU	3.44	154	eP	56 19.66	-1.6	DZM	38.68	116	iPd	14 13.20	-0.4
			Sg	22 08.60		TMW	3.47	83	eP	56 19.95	-1.6	SSE	39.00	349	P	14 16.00	0.0
GUD	4.56	249	ePn	21 02.00	-1.0	HOM	3.50	188	eP	56 22.19	0.2		1.0s	19.00nm			4.9mb
			eSn	21 52.80		GLB	3.60	115	eP	56 22.35	-1.1	CHG	39.63	311	eP	14 22.50	1.1
SMF	4.57	21	Pn	21 03.20	0.2	CNPM	3.61	185	eP	56 22.86	-0.7		1.0s	11.50nm			4.7mb
			Pg	21 18.70		OPT	3.69	201	eP	56 24.52	-0.1	GYA	40.14	328	P	14 25.80	0.2
			Sg	22 17.30		XLV	3.71	189	eP	56 24.21	-0.6	WHN	40.31	340	eP	14 28.50	1.7
AVF	4.59	17	Pn	21 03.20	-0.1	PDB	3.75	209	eP	56 24.75	-0.6	KMI	41.34	322	eP	14 37.00	1.3
			Pg	21 18.20		AUE	3.99	201	eP	56 29.33	0.7		1.5s	50.00nm			5.0mb
			Sg	22 16.90		AUH	4.00	201	eP	56 30.46	1.6	MAT	44.45	10	eP	14 58.00	-2.6X
SBF	4.62	70	Pn	21 03.90	0.1	AUI	4.02	201	eP	56 30.53	1.5		1.2s	23.44nm			4.8mb
			Sn	21 55.10		FYU	4.17	31	eP	56 29.64	-1.4	CD2	45.22	329	P	15 07.20	0.4
SSF	4.88	17	Pg	21 24.20	16.8X	MCNL	4.33	206	eP	56 32.78	-0.5	XAN	45.46	336	P	15 07.50	-1.2
			Sg	22 25.90		TGL	4.38	119	eP	56 32.15	-1.9	TIY	47.51	342	eP	15 25.00	0.1
LBF	4.92	21	Pn	21 08.40	0.4	BALM	4.42	114	eP	56 32.76	-1.8	BJI	48.68	347	eP	15 33.00	-0.8
			Pg	21 26.70		CDD	4.44	201	eP	56 33.98	-0.8		1.5s	52.00nm			5.3mb
			Sg	22 27.60		DWY	5.09	74	Pd	56 41.90	-1.7	HHC	50.65	343	eP	15 48.60	-0.5
LPG	4.92	49	Pn	21 09.40	1.1	KDC	5.46	191	iPc	56 46.80	-1.8	LSA	51.96	317	P	16 00.40	0.8
LPL	4.92	49	Pn	21 09.30	1.0	INK	8.75	46	P	57 31.50	-1.8	GTA	53.94	332	eP	16 13.00	-0.6
LOR	5.16	19	Pg	21 29.20	17.9X	MBC	16.71	26	eP	59 15.50	-0.6		0.8s	10.00nm			4.9mb
			Sg	22 36.10		NB2	55.41	11	P	04 49.00	-2.6	KOD	54.47	288	eP	16 07.80	-10.3X
PGF	5.59	86	Pn	21 15.40	-2.2		0.7s		0.90nm		3.8mb	GUN	54.65	312	P	16 18.70	-0.6
			Sn	22 14.60		HFS	56.50	9	eP	04 55.80	-3.6		0.6s	56.00nm			5.8mb
GRR	6.20	346	Pn	21 24.80	-1.2		0.4s		0.90nm		4.1mb	PKI	54.81	311	P	16 19.60	-0.9
			Sn	22 32.00			64 obs.		associated			KKK	55.03	311	P	16 21.10	-0.9
LDF	6.29	350	Pn	21 26.10	-1.1								0.6s	31.00nm			5.5mb
FLN	6.50	349	Pn	21 29.40	-0.9							DMN	55.06	311	P	16 21.10	-1.2
			Sn	22 37.90									0.6s	33.00nm			5.5mb
HAU	6.58	30	Pg	21 56.70	25.2X							GBA	55.52	292	P	16 23.00	-2.4
BSF	6.61	33	Pg	21 57.60	25.6X							GKN	55.62	311	P	16 25.40	-0.8
	S.D. = 0.8	on	30 of 34 obs.			BANDA SEA				(280)		WMQ	63.30	327	P	17 19.50	0.8
														pP		17 28.00	27kmX
* OCT 18, 1990 01h 55m 28.39s						MTN	5.76	162	eP	08 17.90	0.4	MAW	74.37	201	eP	18 27.00	0.4
63.110 N						KUPT	6.26	243	eP	08 19.50	-5.0X	SPK	82.70	180	iPc	19 12.10	-0.1
150.636 W									eS	09 26.00			0.6s	35.37nm			5.6mb
DEPTH = 120.5km						KNA	8.36	183	iPc	08 52.50	-1.3	TNP	112.97	52 (PKP)		25 26.00	-0.6
4.0mb (2 obs.)									IS	10 09.10		ARE	148.66	139 ePKP		26 34.00	0.7
CENTRAL ALASKA						JAY	12.35	68	ePc	09 48.00	-0.2	JFO	150.21	194 ePKP		26 40.80	5.5X
<AGS-P>.						WB5	13.40	159	iPc	09 57.20	-4.8X	CNCB	150.55	145 PKP		26 37.00	0.5
									e(S)	12 13.00				i		26 43.20	
HUR	0.47	106	eP	55 46.13	-0.4	WMDI	14.33	86	eP	10 14.00	-0.4	LPB	150.70	144 ePKP		26 31.00	-5.6X
			iS	55 59.62		QIS	16.50	144	eP	10 38.00	-4.2X			i		26 43.00	
CUT	0.73	166	iP	55 48.16	-0.1				eS	13 28.00		PPD	150.80	179 ePKP		26 41.20	5.1X
RND	0.86	69	iP	55 48.92	-0.6	TRT	16.51	268	ePc	10 45.80	3.6X			e		26 48.40	
MCK	0.99	50	iP	55 50.18	-0.5	ASPA	16.82	165	eP	10 42.30	-3.9X	ZOBO	150.89	144 PKP		26 36.00	-1.1
			eS	56 07.35			0.4s		164.20nm		5.5mb	CCH	151.08	148 PKP		26 44.30	7.3X
SKT	1.21	200	iP	55 52.62	-0.3	Z	19s		0.80um		4.1msz	SIV	154.65	156 PKP		26 41.30	-0.4
PWA	1.51	166	iP	55 56.32	0.1				iS	13 34.80				i		27 05.40	
GHO	1.56	149	iP	55 56.85	-0.2	PMG	17.80	98	eP	10 59.50	1.1	SOB1	160.86	211 (PKP)		26 50.00	0.8
			eS	56 19.47			1.2s		531.25nm		5.5mb		S.D. = 0.9	on 53 of 67 obs.			
NEA	1.63	24	iP	55 56.62	-1.1	KKM	18.62	315	ePc	11 10.80	2.2X						
			eS	56 17.32		NANU	20.10	220	iPc	11 25.20	0.3						
SUA	1.65	182	eP	55 57.99	-0.2		0.4s		84.00nm		5.4mb	% OCT 18, 1990 03h 58m 55.17±0.91s					
PLRM	1.68	155	iP	55 57.61	-0.7				eS	14 59.70		38.977 N ± 7.0km				27.160 E ±12.8km	
PMR	1.68	155	iPc	55 57.70	-0.6	CTA	20.76	129	iPc	11 32.50	0.7	DEPTH = 10.0km				(geophysicist)	
SML	1.69	140	eP	55 57.91	-0.6		1.2s		218.75nm		5.4mb	TURKEY				(366)	
WRH	1.77	38	iP	55 58.56	-0.9				iS	15 17.00		MD 2.8 (ISK).					
PMS	1.94	164	iP	56 01.14	-0.5	MEKA	21.72	207	eP	11 41.80	0.4						
CRP	1.98	202	eP	56 01.94	-0.3				eS	15 32.00		IZM	0.58	172	ePg	59 07.00	0.0
KNK	1.99	148	eP	56 01.43	-0.7	FORR	23.41	183	iPd	11 58.10	0.2	EZN	1.07	323	ePg	59 15.30	0.1
CCB	1.99	38	iP	56 01.13	-1.0	QLP	23.84	145	eP	12 03.00	0.9				eSg	59 28.80	
SCM	2.00	128	eP	56 01.43	-1.0				e	13 25.00		EDC	1.47	21	ePn	59 21.80	0.1
BGL	2.03	205	eP	56 02.74	0.0				e	16 21.00		BNT	1.50	23	ePn	59 21.50	-0.6
CKL	2.08	203	eP	56 03.06	-0.4	COOL	24.62	197	eP	12 10.00	0.3	KCT	1.57	36	iPn	59 23.60	0.4
HDA	2.09	50	eP	56 02.40	-1.1	MRWA	25.10	208	iPc	12 14.70	0.5		S.D. = 0.5	on 5 of 5 obs.			
FBA	2.19	34	eP	56 03.76	-1.0				eS	16 44.00							
			eS	56 31.51		KLB	26.41	203	iPc	12 26.90	0.5	? OCT 18, 1990 04h 41m 13.45±0.94s					
DDM	2.25	70	eP	56 05.13	-0.4	RMC	26.56	138	eP	12 26.80	-1.1	38.972 N ± 7.3km				27.248 E ±15.0km	
TOA	2.30	114	iPc	56 06.40	0.2							DEPTH = 10.0km				(geophysicist)	

18d 04h

TURKEY (366)				
MD 2.6 (ISK).				
IZM	0.57	179	ePg	41 25.10 0.0
EZN	1.11	320	iPg	41 34.30 0.0
			iSg	41 46.80
EDC	1.45	19	ePn	41 39.80 0.1
BNT	1.48	20	ePn	41 40.00 -0.1
S.D. = 0.1 on 4 of 4 obs.				
* OCT 18, 1990 06h 05m 48.80±0.80s				
63.547 N ± 8.9km 151.202 W ± 8.8km				
DEPTH = 33.0km (normal)				
CENTRAL ALASKA (1)				
FBA	2.02	46	iPc	06 21.50 0.4
PMR	2.18	153	iPc	06 22.80 -0.7
TTA	2.26	256	iPd	06 25.20 0.5
TOA	2.72	120	iPd	06 31.60 0.4
IMA	2.74	338	iPc	06 31.00 -0.6
S.D. = 0.8 on 5 of 5 obs.				
* OCT 18, 1990 06h 52m 12.75±1.02s				
26.414 S ± 8.2km 27.368 E ± 13.0km				
DEPTH = 5.0km (geophysicist)				
REPUBLIC OF SOUTH AFRICA (584)				
mbLg 3.5 (BUL). ML 3.4 (PRE).				
PRY	0.52	170	eP	52 23.00 -0.2
			S	52 28.00
KSR	0.69	322	iPd	52 27.00 0.4
			S	52 36.00
EVA	1.54	94	iPd	52 41.50 0.5
			S	52 59.00
BUL	6.35	11	iPn	53 47.80 -1.6
			iSn	54 57.00
			iSg	55 24.20
KRI	9.76	13	iPn	54 38.00 0.9
			iSn	56 19.00
			iSg	57 16.50
S.D. = 1.4 on 5 of 5 obs.				
OCT 18, 1990 07h 14m 18.20±0.66s				
24.120 S ± 6.1km 66.669 W ± 11.4km				
DEPTH = 202.5 ± 11.7 km				
4.7mb (2 obs.)				
SALTA PROVINCE, ARGENTINA (129)				
ANT	3.45	276	iPc	15 13.80 0.0
			iS	15 53.50
CYA	4.38	170	iPc	15 27.50 2.1
			S	16 19.00
CCH	6.72	4	P	15 58.30 2.4
RTLL	7.36	192	ePc	16 02.20 -1.8
CNCB	7.38	350	iPc	16 06.30 1.5
			S	17 28.00
RTCB	7.58	194	eP	16 05.30 -1.7
LPB	7.67	350	Pc	16 09.60 1.1
			S	17 31.00
ZOBO	7.93	350	iPc	16 12.10 -0.1
			eS	17 35.00
ARE	8.86	328	eP	16 21.00 -2.8
			iS	17 56.00
MDZ	8.94	192	eP	16 25.20 0.6
SIV	9.64	34	iPd	16 32.20 -1.6
PEL	9.66	201	iPc	16 34.50 0.6
	1.5s	27.78nm		4.4mb
FCH	9.71	198	eP	16 36.00 1.2
SAN	9.93	200	eP	16 38.00 0.5
LNV	10.64	202	eP	16 44.00 -2.5
PPD	14.29	85	eP	17 32.30 -0.5
			e	17 35.50
			e	17 38.30
			e	17 46.40
BAO	19.47	68	eP	18 30.70 -1.1
JFO	21.63	88	eP	18 54.80 1.7
SOB1	28.72	63	eP	19 57.30 -1.6
SPA	66.02	180	iPd	24 46.70 1.8
	0.7s	28.13nm		5.1mb
KIC	67.50	72	(P)	24 53.50 -1.2
ASPA	128.47	204	ePKP	33 03.50 0.5
	0.7s	5.60nm		
WB5	131.70	207	ePKP	33 10.00 0.9
GBA	144.55	101	PKPc	33 32.80 0.1
	0.3s	3.60nm		
GKN	153.96	75	PKP	34 00.00 13.0X
S.D. = 1.6 on 24 of 25 obs.				

? OCT 18, 1990 07h 22m 49.63±4.04s				
41.460 N ± 22.2km 23.886 E ± 20.5km				
DEPTH = 5.0km (geophysicist)				
GREECE-BULGARIA BORDER REGION (363)				
ML 2.7 (THE).				
SRS	0.41	213	ePc	22 58.18 0.4
			eS	23 04.74
SOH	0.75	212	ePd	23 04.34 -0.4
			eS	23 15.62
KNT	0.80	249	ePc	23 05.22 -0.4
			eS	23 15.70
VAY	1.00	262	ePn	23 09.30 0.3
OUR	1.13	176	ePc	23 11.26 0.1
GRG	1.23	246	ePc	23 13.10 0.2
			eS	23 29.62
S.D. = 0.5 on 6 of 6 obs.				
& OCT 18, 1990 08h 30m 15.00s				
32.420 N 115.130 W				
DEPTH = 6.0km (geophysicist)				
CALIFORNIA-MEXICO BORDER REGION (45)				
<PAS-P>. ML 3.1 (PAS).				
GLA	0.68	22	eP	30 27.30 -1.3
PLM	1.73	303	eP	30 45.00 -0.9
PEC	2.25	311	e(P)	30 55.00 1.7
3 obs. associated				
? OCT 18, 1990 09h 22m 23.90±1.29s				
36.126 N ± 11.1km 100.180 E ± 15.4km				
DEPTH = 33.0km (normal)				
3.9mb (1 obs.)				
QINGHAI PROVINCE, CHINA (325)				
ML 3.5 (BJI).				
LZH	2.97	90	Pnc	23 09.00 -0.9
			Pg	23 14.00
			Sn	23 46.50
			Sg	23 54.00
GTA	3.29	355	Pn	23 14.10 -0.4
			Pg	23 18.00
			Sn	23 56.40
CD2	6.00	149	Pg	24 03.40 10.7X
BTO	8.92	57	eP	24 30.00 -3.6X
HMC	10.09	59	eP	24 50.80 1.1
CHG	17.28	184	eP	26 24.50 0.2
	0.9s	8.61nm		3.9mb
WB5	64.41	144	eP	32 55.20 -3.9X
S.D. = 1.5 on 4 of 7 obs.				
* OCT 18, 1990 09h 30m 44.46±0.91s				
26.390 S ± 7.6km 27.349 E ± 12.0km				
DEPTH = 5.0km (geophysicist)				
4.0mb (1 obs.)				
REPUBLIC OF SOUTH AFRICA (584)				
mbLg 4.0 (BUL). ML 3.8 (PRE). At				
least 9 people killed, one				
missing and 6 injured in a mine				
near Corletonville. Probable				
rockburst.				
PRY	0.55	168	iPd	30 55.00 -0.4
			S	31 01.00
KSR	0.66	322	iPd	30 58.50 0.8
			S	31 07.50
EVA	1.55	95	eP	31 14.00 1.0
			S	31 34.00
BUL	6.33	11	iPn	32 19.60 -1.2
			iSn	33 29.50
			iSg	34 01.40
KRI	9.74	13	iPn	33 08.30 -0.2
			iSn	34 56.50
			iSg	35 49.20
GBA	62.85	57	P	41 14.00 0.1
	0.2s	0.20nm		4.0mb
S.D. = 1.1 on 6 of 6 obs.				
? OCT 18, 1990 09h 59m 45.78±1.41s				
39.125 N ± 8.6km 27.737 E ± 16.8km				
DEPTH = 10.0km (geophysicist)				
TURKEY (366)				
MD 2.3 (ISK).				
IZM	0.82	207	ePg	00 01.60 0.0
			eSg	00 14.10

EDC	1.22	5	ePn	00 08.00	-0.5
BNT	1.24	6	ePn	00 09.30	0.5
EZN	1.30	303	ePn	00 09.80	0.0
S.D. = 0.8 on 4 of 4 obs.					
OCT 18, 1990 10h 05m 44.54± 0.59s					
42.869 N ± 5.3km 13.544 E ± 7.5km					
DEPTH = 14.1 ± 4.9 km					
CENTRAL ITALY (381)					
AQU	0.53	191	P	05 56.80	1.8
			eSg	06 05.80	
ASS	0.68	288	P	05 56.90	-0.8
			eSg	06 09.20	
ARV	0.77	325	P	05 59.50	0.3
			eSg	06 10.60	
MNS	0.80	233	P	06 00.50	0.8
			eSg	06 13.70	
AZI	0.88	185	P	06 02.50	1.4
			eSg	06 16.00	
SDI	1.18	170	P	06 06.00	-0.2
			eSg	06 24.90	
RMP	1.23	211	P	06 09.00	2.0
RSM	1.32	323	P	06 09.70	1.2
DUI	1.39	150	P	06 08.80	-0.6
			eSn	06 29.40	
CRE	1.39	304	P	06 09.00	-0.5
			eSg	06 29.50	
SFI	1.62	311	P	06 12.40	-0.3
PGD	1.67	308	P	06 13.40	-0.2
HVAR	2.15	81	iPn	06 22.10	1.7
			iSn	06 54.60	
BSS	2.28	155	P	06 21.00	-1.3
SGO	2.66	150	P	06 26.50	-1.2
TRI	2.84	3	eP	06 46.70	16.5X
			e	07 12.60	
VOY	3.17	4	e(Pn)	06 36.80	1.8
			eSn	07 22.70	
S.D. = 1.3 on 16 of 17 obs.					
* OCT 18, 1990 10h 05m 45.92± 1.77s					
45.726 N ± 14.1km 26.644 E ± 11.2km					
DEPTH = 162.3 ± 17.2 km					
ROMANIA (358)					
VRI	0.15	22	iPc	06 07.50	0.3
CVO	0.34	286	ePc	06 24.50	16.8X
MLR	0.54	245	iPc	06 09.00	-0.3
ISR	0.59	187	ePc	06 10.00	0.5
CLI	0.94	28	iPc	06 11.50	-0.2
MTUR	1.22	246	eP	06 14.00	-0.1
TLB	1.50	139	eP	06 16.50	-0.2
COZ	1.67	257	ePd	06 18.50	-0.2
PTJ	7.47	275	eP	07 33.50	0.2
S.D. = 0.4 on 8 of 9 obs.					
* OCT 18, 1990 10h 27m 05.01± 2.23s					
43.807 N ± 18.5km 12.666 E ± 13.7km					
DEPTH = 10.0km (geophysicist)					
CENTRAL ITALY (381)					
ARV	0.37	147	Pc	27 12.90	0.3
			eSg	27 19.90	
CRE	0.55	251	P	27 16.50	0.4
			eSg	27 25.80	
SFI	0.60	281	P	27 16.90	-0.2
			eSg	27 27.30	
PGD	0.69	276	P	27 18.70	0.0
			eSg	27 29.50	
ASS	0.74	180	P	27 19.00	-0.5
			eSg	27 29.50	
S.D. = 0.5 on 5 of 5 obs.					
? OCT 18, 1990 10h 59m 41.17± 2.21s					
41.502 N ± 18.9km 13.246 E ± 8.0km					
DEPTH = 10.0km (geophysicist)					
SOUTHERN ITALY (390)					
SDI	0.47	64	P	59 50.60	-0.2
			eSg	59 59.50	
AZI	0.51	16	P	59 51.50	0.1
			eSg	59 59.00	
RMP	0.51	307	P	59 51.50	0.0
			eSg	59 59.70	
DUI	0.92	80	P	59 59.00	0.1
			eSg	00 12.00	
S.D. = 0.3 on 4 of 4 obs.					

? OCT 18, 1990 11h 35m 46.44±13.00s
44.182 N ±50.5km 127.552 W ±89.8km
DEPTH = 10.0km (geophysicist)
OFF COAST OF OREGON (30)

KMOR	3.23	62 P	36 37.42	-0.9
NLO	3.47	55 P	36 41.35	-0.3
BMW	3.82	52 P	36 45.85	-0.7
PGO	3.85	69 P	36 47.99	1.0
GT2	3.89	74 P	36 47.15	-0.5
RVW	3.93	58 P	36 47.68	-0.4
LVP	4.10	61 P	36 50.57	0.0
VLMM	4.15	69 P	36 51.27	0.0
FL2	4.19	59 P	36 51.97	0.0
MTMW	4.21	62 P	36 52.09	0.0
CZM	4.21	56 P	36 51.43	-0.7
APW	4.25	53 P	36 52.03	-0.6
ERK	4.25	58 P	36 52.32	-0.4
TDH	4.25	73 P	36 52.76	-0.1
SHW	4.26	60 P	36 53.29	0.3
HSR	4.29	60 P	36 53.92	0.5
STD	4.29	60 P	36 53.52	0.2
JLK	4.29	61 P	36 53.49	0.1
REMW	4.30	60 P	36 54.60	1.0
ESD	4.32	60 P	36 54.10	0.3
SOSW	4.34	60 P	36 54.10	0.0
TDL	4.35	58 P	36 54.13	0.0
CDFW	4.35	62 P	36 54.39	0.3
VBEM	4.35	76 P	36 53.88	-0.3
VLL	4.37	71 P	36 54.72	0.2
KOSW	4.41	57 P	36 55.46	0.4
APM	4.45	68 P	36 55.41	-0.1
LMW	4.46	54 P	36 55.77	0.0
VFP	4.48	73 P	36 56.08	0.0
GULW	4.57	65 P	36 57.78	0.5
ASR	4.65	63 P	36 58.61	0.1
LON	4.79	56 P	37 00.18	-0.2
RVC	4.79	53 P	37 00.91	0.4
GLK	4.82	58 P	37 01.17	0.3
WPW	4.92	57 P	37 02.43	0.2
FMW	4.96	54 P	37 02.57	-0.3
GL2	5.09	67 P	37 04.22	-0.4
RMW	5.18	49 P	37 05.99	0.0
JCW	5.60	42 P	37 12.28	0.5
MXC	5.65	62 P	37 12.10	-0.4
CRF	6.32	62 P	37 21.49	-0.4
RC1	6.33	61 P	37 21.70	-0.4

S.D. = 0.4 on 42 of 42 obs.

OCT 18, 1990 12h 54m 48.74±0.49s
49.047 N ±11.1km 153.797 E ±7.7km
DEPTH = 150.0km (geophysicist)
4.5mb (15 obs.)

KURIL ISLANDS (221)

MAT	16.90	228 (P)	58 37.00	-0.6
	0.8s	7.46nm	4.1mb	
TTA	30.42	44 iPc	00 47.70	-0.8
IMA	31.70	38 iPc	00 58.90	-0.8
FBA	34.09	40 iPc	01 20.00	-0.2
	0.7s	31.90nm	5.2mb	
INK	39.48	34 eP	02 05.00	-0.2
CHG	53.12	256 eP	03 53.50	0.7
GUN	55.28	274 P	04 08.20	-0.8
	0.6s	20.00nm	5.2mb	
KKN	55.76	274 P	04 12.20	0.0
	0.6s	15.00nm	5.1mb	
PKI	55.82	274 P	04 12.80	0.0
	0.6s	12.00nm	5.0mb	
DMN	55.99	274 P	04 13.80	-0.2
	0.8s	28.00nm	5.2mb	
GKN	56.03	275 P	04 13.40	-0.8
	0.6s	30.00nm	5.4mb	
LRM	59.46	54 eP	04 38.60	0.7
TNP	61.85	63 P	04 54.20	0.0
NB2	66.20	341 P	05 20.60	-1.2
	0.7s	1.00nm	3.8mb	
HFS	66.47	340 eP	05 22.20	-1.2
	0.4s	1.40nm	4.2mb	
ANMO	70.25	59 P	05 47.70	0.3
GBA	70.92	269 P	05 52.00	0.6
CDF	78.70	338 eP	06 35.40	0.0
FLN	80.07	343 eP	06 42.60	0.0
	0.9s	11.45nm	4.6mb	
LDF	80.17	343 eP	06 43.70	0.6
LOR	80.58	340 eP	06 45.10	-0.2

LBF	80.82	340 eP	06 47.00	0.4
	0.7s	2.20nm	4.0mb	
SSF	80.86	340 eP	06 46.80	0.1
AVF	81.15	340 eP	06 48.40	0.2
	0.8s	3.35nm	4.1mb	
SMF	81.18	340 eP	06 48.80	0.4
BGF	81.48	340 eP	06 50.30	0.3
LPL	81.53	337 eP	06 51.50	0.9
LPG	81.55	337 eP	06 51.70	1.0
	0.8s	6.70nm	4.4mb	
MAF	81.86	340 eP	06 52.90	0.9
	0.8s	4.70nm	4.3mb	

S.D. = 0.6 on 29 of 29 obs.

? OCT 18, 1990 13h 11m 42.60±3.17s
35.162 N ±56.9km 25.157 E ±8.3km
DEPTH = 5.0km (geophysicist)

CRETE (370)
MD 3.6 (ATH).

NPS	0.39	75 ePg	11 49.50	-0.9
		eSg	11 58.20	
VAM	0.82	288 ePb	11 58.50	-0.5
KAP	1.69	76 ePb	12 13.80	0.8
VLI	2.38	311 ePn	12 23.20	0.3

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

? OCT 18, 1990 13h 18m 28.58±1.20s
39.149 N ±7.5km 27.494 E ±16.0km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.2 (ISK).

Izm	0.77	194 ePg	18 43.60	-0.1
		eSg	18 56.00	
EZN	1.13	307 ePn	18 50.00	0.3
BNT	1.25	15 iPn	18 52.30	0.5
KGT	1.31	354 ePn	18 52.00	-0.8

S.D. = 1.0 on 4 of 4 obs.

? OCT 18, 1990 13h 28m 50.77±0.67s
15.775 N ±31.5km 146.418 E ±49.6km
DEPTH = 33.0km (normal)

4.6mb (1 obs.)
MARIANA ISLANDS (216)

GUMO	2.64	215 eP	29 32.20	0.2
PJG	2.64	215 eP	29 32.10	0.1
GUA	2.66	213 eP	29 32.00	-0.2
		eS	30 03.80	
WB5	37.36	199 eP	36 02.20	-0.1
FBA	65.62	25 P	39 34.00	0.5
INK	71.79	23 eP	40 11.00	-0.6
YKA	80.24	28 eP	41 03.50	4.1X
	0.8s	5.60nm	4.6mb	
ZOBO	146.82	96 ePKP	48 31.00	0.1

S.D. = 0.4 on 7 of 8 obs.

? OCT 18, 1990 13h 31m 06.16±8.40s
62.654 N ±86.7km 7.750 E ±11.5km
DEPTH = 10.0km (geophysicist)

SOUTHERN NORWAY (535)
MD 1.7 (BER).

MOL	0.13	228 iPc	31 09.12	-0.1
		eS	31 11.28	
HYA	1.67	207 eP	31 35.40	-0.1
SUE	2.14	223 eP	31 42.40	0.1
		eSg	32 11.50	
NRA0	2.64	135 Pn	31 49.50	0.0
		Pg	31 54.20	
		Sg	32 25.00	
		Lg	32 33.20	

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

? OCT 18, 1990 13h 38m 06.09±1.02s
62.244 N ±10.2km 7.102 E ±12.9km
DEPTH = 10.0km (geophysicist)

SOUTHERN NORWAY (535)
MD 1.8 (BER).

MOL	0.39	32 iPc	38 14.12	0.1
		eS	38 19.43	
HYA	1.17	202 eP	38 28.20	0.4
		eS	38 43.90	
SUE	1.63	224 eP	38 34.60	-0.3

NRA0	2.61	123 Pn	38 54.10	-0.1
		Pg	38 48.90	
		Lg	38 51.90	
			39 28.50	

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

% OCT 18, 1990 14h 20m 31.00±0.76s
38.141 N ±7.5km 5.051 W ±8.3km
DEPTH = 10.0km (geophysicist)

SPAIN (377)
mbLg 2.0 (MDD).

EHOR	0.36	206 iP	20 38.00	-0.3
		eS	20 44.50	
EBAN	1.00	88 eP	20 50.00	0.1
		eS	21 05.00	
EVAL	1.45	248 eP	20 57.80	0.5
		eS	21 17.00	
EVIA	2.06	75 eP	21 10.00	3.8X
		eS	21 36.00	
EPLA	2.08	338 eP	21 06.00	-0.4
		eS	21 30.50	
GUD	2.59	15 eP	21 14.00	0.2
		eS	21 45.00	

S.D. = 0.6 on 5 of 6 obs.

? OCT 18, 1990 14h 57m 15.62±1.05s
11.258 N ±22.9km 124.100 E ±28.6km
DEPTH = 33.0km (normal)

4.4mb (1 obs.)
LEYTE, PHILIPPINE ISLANDS (256)

CHTO	25.41	290 (P)	02 42.00	0.0
LZH	30.77	327 P	03 30.50	0.0
WB5	32.55	162 eP	03 45.80	-0.3
GUN	39.43	300 P	04 45.20	0.3
PKI	39.73	300 P	04 47.30	-0.1
KKN	39.91	300 P	04 48.70	0.0
DMN	40.00	300 P	04 49.70	0.1
GKN	40.51	300 P	04 53.30	-0.3
STK	46.05	159 eP	05 38.40	0.3

0.8s 4.00nm 4.4mb
S.D. = 0.2 on 9 of 9 obs.

% OCT 18, 1990 15h 35m 52.12±0.87s
38.993 N ±6.8km 27.216 E ±14.2km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.9 (ISK).

Izm	0.60	177 iPg	36 04.20	0.0
EZN	1.08	321 iPg	36 12.30	-0.1
		eSg	36 25.90	
EDC	1.44	20 ePn	36 17.80	-0.5
KGT	1.46	3 iPn	36 18.90	0.4
BNT	1.47	22 iPn	36 18.70	0.1

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

OCT 18, 1990 16h 43m 05.31±0.98s
37.303 N ±10.3km 16.491 E ±6.1km
DEPTH = 33.0km (normal)

IONIAN SEA (399)

MSI	1.16	321 Pc	43 25.40	0.1
		eSg	43 41.90	
ATN	1.18	317 P	43 25.50	-0.1
		eSn	43 41.00	
MEU	1.26	261 P	43 26.20	-0.6
		eSg	43 42.00	
MNO	1.56	294 P	43 31.50	0.3
		eSg	43 51.20	
CZI	1.93	352 P	43 36.40	0.0
ROI	2.27	2 P	43 43.00	1.8
TDS	2.35	357 P	43 41.50	-1.0
CSI	2.47	356 P	43 46.80	2.6
MMN	2.61	352 P	43 50.00	3.9X
		eSg	44 14.00	
MGR	2.92	346 P	43 50.50	0.0
LCI	3.23	20 P	43 53.20	-1.7
VLS	3.36	74 eP	43 56.00	-0.8
		eS	44 33.20	
SGO	3.38	345 P	43 56.00	-1.0
KEK	3.54	46 eP	43 57.00	-2.3
		eS	44 35.50	
ITM	4.34	90 eP	44 10.50	-0.2
		eS	44 55.50	
EVR	4.49	67 eP	44 13.50	0.6

18d 16h

KZN 5.10 52 eP 44 22.50 1.0
 VLI 5.19 95 eP 44 24.00 1.3
 S.D. = 1.3 on 17 of 18 obs.

OCT 18, 1990 16h 55m 20.99 ± 0.52s
 38.207 N ± 3.8km 30.895 E ± 5.4km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 4.0 (ISK).

BCK 0.78 198 iPn 55 34.50 -1.8
 ALT 1.05 324 iPn 55 40.70 -0.1
 KHL 1.09 277 iPn 55 41.40 -0.1
 GPA 2.13 348 ePn 55 57.50 0.4
 BBTk 2.19 41 iPnc 55 58.00 0.0
 iS 56 03.00
 iS 56 29.00
 CIN 2.30 256 eP 56 00.00 0.4
 KSL 2.33 207 iPc 56 02.00 2.0
 IZI 2.40 333 iPn 56 01.00 0.1
 YLV 2.63 334 iPn 56 04.00 0.5
 GBZT 2.81 337 eP 56 07.00 0.2
 IZM 2.86 275 iPn 56 07.30 -0.3
 ARG 2.97 229 eP 56 16.00 7.0X
 BNT 3.15 314 ePn 56 10.70 -0.9
 EDC 3.18 313 iPn 56 11.80 -0.2
 ISK 3.19 334 ePn 56 12.00 -0.1
 SMG 3.25 262 iPd 56 13.50 0.6
 CTT 3.50 328 ePn 56 16.30 -0.2
 KGT 3.58 310 iPn 56 17.30 -0.3
 PRK 3.76 287 iPd 56 20.10 -0.2
 CSS 3.79 148 eP 56 20.50 -0.2
 EZN 3.91 296 ePn 56 22.40 0.1
 S.D. = 0.7 on 20 of 21 obs.

* OCT 18, 1990 17h 21m 56.00s
 33.640 N 117.880 W
 DEPTH = 3.0km
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 3.6 (PAS). Slight
 damage (VI) at Costa Mesa. Felt
 (V) at Santa Ana, Seal Beach,
 Stanton and Tustin; (IV) at
 Balboa, Buena Park, East Irvine,
 El Toro, Fountain Valley,
 Huntington Beach, Midway City
 and Newport Beach; (III) at
 Atwood, Fullerton, La Habra,
 Laguna Niguel, Los Angeles and
 Surfside.

VPD 0.20 29 iPd 22 00.32 0.3
 LCL 0.32 307 eP 22 03.01 0.5
 FMA 0.35 282 eP 22 02.44 -0.5
 PCF 0.42 10 ePd 22 04.10 -0.3
 PVPS 0.46 289 ePd 22 04.18 -1.0
 CIS 0.50 242 ePd 22 05.50 -0.4
 PEM 0.53 1 iPd 22 05.99 -0.5
 RVR 0.55 50 iPd 22 06.40 -0.6
 PAS 0.56 335 ePc 22 06.30 -0.9
 CIW 0.59 253 iPd 22 06.96 -0.8
 MWC 0.60 346 iPd 22 07.00 -1.0
 PEC 0.65 67 eP 22 08.20 -0.8
 SCI 0.86 220 ePd 22 12.60 -0.6
 PLM 0.90 108 ePc 22 12.80 -1.2
 SBB 1.05 2 iPd 22 15.00 -1.4
 BAR 1.39 133 ePc 22 20.80 -1.6
 ABL 1.64 318 eP 22 23.90 -2.2
 CLC 2.18 6 ePc 22 32.00 -1.8
 BLP 2.28 294 eP 22 32.30 -2.9
 BCH 2.39 311 eP 22 34.50 -2.3
 GLA 2.62 102 eP 22 38.00 -2.0
 PHAM 3.02 317 eP 22 43.40 -2.2
 PKEM 3.03 323 e(P) 22 43.50 -2.3
 PRI 3.39 318 eP 22 52.00 1.0
 eS 23 45.70
 FRI 3.66 336 eP 22 53.00 -1.7
 LLA 3.89 321 eP 22 58.30 0.3
 PRS 3.93 314 eP 22 57.30 -1.2
 SAO 4.27 318 iP 23 00.00 -3.4
 TNP 4.46 7 eP 23 05.00 -1.4
 CMB 4.83 336 eP 23 10.40 -1.1
 ALO 9.54 79 e(P) 24 25.00 7.5
 31 obs. associated

OCT 18, 1990 18h 36m 56.38 ± 0.39s
 43.625 N ± 4.5km 16.904 E ± 4.1km

DEPTH = 5.0km (geophysicist)
 YUGOSLAVIA (383)
 MD 3.6 (TRI). ML 3.0 (VIE), 3.0
 (TTG).

BLY 1.14 10 Pn 37 17.50 -0.7
 Sn 37 33.00
 BRY 1.40 121 ePg 37 20.50 -2.2
 eSg 37 41.00
 HCY 1.66 135 ePg 37 24.90 -1.3
 eSg 37 49.00
 NKY 1.73 117 ePn 37 28.00 0.6
 eSn 37 52.00
 PLE 1.84 98 ePn 37 30.00 1.1
 eSn 37 55.00
 BDV 1.95 133 ePn 37 30.50 0.1
 eSn 37 58.00
 TTG 2.10 124 ePn 37 33.20 0.6
 eSn 38 01.80
 PTJ 2.37 344 iPn 37 36.00 -0.7
 iSn 38 05.70
 PVY 2.47 114 ePn 37 40.50 2.4
 eSn 38 12.50
 DUL 2.67 223 P 37 42.00 1.2
 CEY 2.75 321 eP 37 48.00 5.9X
 eSn 38 18.50
 ARV 2.88 269 P 37 44.50 0.7
 LJU 2.95 326 eP 37 54.50 9.8X
 e(Sn) 38 27.00
 SDI 2.98 231 P 37 45.80 0.6
 eSn 38 22.00
 AZI 3.03 239 P 37 46.00 0.1
 TRI 3.06 314 ePn 37 46.40 0.1
 iPg 37 55.00
 iSn 38 24.60
 i 38 32.70
 iSg 38 39.70
 ASS 3.14 261 P 37 48.20 0.7
 eSn 38 26.00
 VOY 3.22 319 ePnc 37 48.90 0.2
 ePg 37 56.20
 eSn 38 30.00
 eSg 38 44.20
 BSS 3.23 210 P 37 48.50 -0.2
 SGO 3.29 202 P 37 48.50 -1.0
 MNS 3.34 250 P 37 50.90 0.6
 eSn 38 30.40
 LCI 3.38 166 P 37 48.00 -2.9
 MGR 3.63 197 P 37 54.50 0.1
 SFI 3.67 276 P 37 55.60 0.6
 eSn 38 39.90
 SKO 3.72 115 ePn 37 49.00 -6.8X
 PGD 3.76 276 P 37 55.50 -1.0
 OHR 3.83 130 ePn 37 58.70 1.4
 FVI 4.16 317 P 38 01.90 0.0
 eSn 38 49.00
 CTI 4.45 305 P 38 04.90 -1.3
 eSn 38 56.00
 WATA 5.27 317 iPnc 38 18.30 0.4
 iSg 39 15.50
 SOTA 5.38 314 iPnc 38 19.40 0.0
 iSg 39 16.70
 S.D. = 1.1 on 28 of 31 obs.

OCT 18, 1990 19h 12m 15.93 ± 0.14s
 17.643 N ± 2.3km 62.172 W ± 2.7km
 DEPTH = 53.6km (8 depth phases)
 5.2mb (47 obs.)

LEEWARD ISLANDS (92)
 MD 4.9 (TRN). Felt (V) on
 Antigua, (III) on St. Maarten,
 Guadeloupe and Saba. Also felt
 on Barbuda, Nevis and St. Kitts.

SKI 0.62 240 eP 12 31.24 2.3
 NEV 0.63 217 eP 12 30.78 1.7
 BPA 0.67 153 eP 12 29.87 0.3
 SEG 1.39 153 iPd 12 39.61 0.3
 S 12 55.00
 SFG 1.67 146 ePd 12 43.50 0.3
 PAG 1.67 164 ePd 12 43.88 0.5
 DOG 1.69 162 ePd 12 44.02 0.5
 BTG 1.70 165 eP 12 44.06 0.4
 S 12 02.00
 MGG 1.90 154 iPd 12 46.89 0.4
 FDF 3.05 161 eP 13 02.48 -0.5
 0.2s 6.45nm

S 13 36.50
 BIM 3.28 161 eP 13 06.09 -0.1
 MVM 3.31 158 eP 13 06.12 -0.4
 S 13 43.60
 CPD 3.59 277 iP 13 12.30 1.9
 SJG 3.82 278 iP 13 15.60 1.9
 CSB 3.85 280 iP 13 16.20 2.1
 SLB 3.95 164 iP 13 15.08 -0.5
 eS 14 01.00
 PORP 4.27 276 iP 13 21.60 1.6
 SVV 4.40 168 eP 13 22.00 0.2
 eTT 16 17.00
 SVB 4.44 168 eP 13 23.00 0.7
 eS 14 15.00
 GRW 5.47 175 eP 13 36.21 -0.8
 e 13 41.00
 eTT 18 39.00
 TPR 6.56 168 eP 13 53.00 0.8
 TRN 6.99 174 eP 13 58.00 -0.2
 e 14 04.00
 e 15 13.67
 TBH 7.20 171 eP 14 03.60 2.5X
 eS 15 17.74
 TPP 7.32 174 eP 14 06.59 3.8X
 eS 15 31.77
 CUM 7.39 195 iP 14 04.40 0.6
 LLAV 8.43 213 eP 14 15.50 -2.7
 OLLA 8.81 211 eP 14 25.50 2.0
 GUAC 8.91 214 eP 14 22.00 -2.9
 CEOS 10.45 216 eP 14 46.00 0.1
 TOV 10.76 224 eP 14 52.00 1.9
 SDV 11.98 224 eP 15 09.00 2.3
 BMG 14.95 227 eP 15 45.00 -0.7
 BOG 17.41 223 eP 16 18.00 0.9
 eS 19 40.00
 HBF 22.37 316 P 17 10.80 0.0
 SGS 22.62 317 P 17 13.00 -0.2
 JSC 23.78 318 P 17 24.00 -0.5
 PRM 24.38 316 P 17 30.70 0.3
 BLA 25.26 324 P 17 39.70 1.0
 0.9s 86.78nm 5.3mb
 NAV 25.54 324 P 17 41.50 0.1
 TKL 26.26 317 P 17 47.50 -0.5
 GBTN 26.55 317 P 17 50.20 -0.4
 HBVT 28.17 343 P 18 05.00 -0.3
 PWLA 28.80 312 P 18 10.70 -0.3
 ELC 30.79 315 P 18 27.90 -0.8
 OLY 31.50 310 P 18 34.00 -0.9
 FVM 31.97 315 P 18 37.80 -1.3
 UYO 33.20 306 iPd 18 49.80 0.0
 SIV 33.44 178 iPd 18 49.80 -2.2
 SOB1 33.97 140 eP 18 56.00 -0.6
 ZOBO 34.20 190 P 18 56.00 -3.2X
 Z 22s 0.42um 4.1msz
 S 24 24.00
 LR 29 44.00
 LPB 34.46 190 P 18 59.00 -2.2
 CAI 34.47 132 eP 19 09.00 8.1X
 CNCB 34.71 190 P 19 01.00 -2.6
 TUL 34.86 308 iPd 19 04.40 0.3
 0.9s 88.80nm 5.7mb
 Z 22s 0.74um 4.4msz
 I 19 18.60 56km
 LR 28 45.00
 SIO 35.19 308 iP 19 07.30 0.4
 i 19 21.50 55km
 MEO 36.61 305 iPd 19 17.50 -1.4
 PPD 40.84 164 eP 19 52.70 -1.5
 e 20 07.60 58km
 ALO 42.90 303 iPd 20 11.80 0.5
 0.9s 42.02nm 5.2mb
 e 20 26.00 54km
 ANMO 42.90 303 P 20 11.30 0.1
 0.9s 45.17nm 5.2mb
 GLD 43.19 310 P 20 13.50 0.0
 1.0s 22.50nm 4.9mb
 GOL 43.29 310 P 20 13.90 -0.5
 1.0s 18.13nm 4.8mb
 BW06 47.22 312 P 20 44.90 -0.8
 1.3s 61.48nm 5.4mb
 DAU 47.83 309 P 20 50.70 0.1
 FFC 47.91 330 iPd 20 49.80 -0.8
 0.8s 15.00nm 5.1mb
 MSU 48.12 306 P 20 52.80 0.0
 PTI 49.24 312 P 21 01.40 0.2
 GLA 49.51 299 eP 21 04.00 0.7
 LRM 50.10 315 eP 21 08.20 0.3

TPC	50.61	300	eP	21	12.00	0.2	ENN	62.70	42	eP	22	39.00	1.5	ENN	0.20	73	iPgd	30	33.90	0.4
SES	50.74	321	ePc	21	12.30	-0.1		0.8s	33.00nm				5.5mb		0.5s	37.00nm				
BAR	51.03	298	eP	21	13.00	-1.9			i	22	50.60	39kmX					iSg	30	37.30	
PLM	51.23	299	eP	21	17.00	0.4	MEM	62.74	42	eP	22	50.70	13.0X	MEM	0.27	112	iPd	30	35.30	0.6
GSC	51.34	301	eP	21	18.00	0.7	HAU	62.76	45	eP	22	38.20	0.2	KLL	0.45	98	iPd	30	37.80	-0.3
RVR	51.70	300	eP	21	20.00	0.0		0.8s	8.05nm				4.9mb		0.1s	*****nm				
TNP	51.97	305	P	21	21.80	-0.4		Z	22s	0.22um			4.3Msz				iS	30	44.20	
	0.9s	18.23nm				5.1mb	FRF	62.79	50	eP	22	38.80	0.6	STB	0.79	98	iPd	30	43.60	-0.7
CLC	52.03	302	eP	21	22.00	-0.5		0.8s	12.10nm				5.1mb		0.1s	20.00nm				
SBB	52.12	300	eP	21	23.00	-0.2	BNI	62.85	48	P	22	52.50	13.8X				iS	30	53.90	
MWC	52.28	300	eP	21	24.00	-0.6	LPL	62.90	47	eP	22	40.30	1.1	SNF	0.87	257	P	30	45.70	-0.1
ISA	52.72	302	eP	21	28.00	0.3		0.7s	11.60nm				5.1mb	DOU	0.90	227	iP	30	46.30	0.1
		e		22	37.00	326kmX	LPG	62.91	47	eP	22	40.60	1.2				iS	30	59.40	
ABL	53.28	301	P	21	31.50	-0.5		0.7s	10.45nm				5.1mb		S.D. = 0.6 on 6 of 6 obs.					
FRI	53.82	303	eP	21	34.40	-1.2	BSF	63.05	45	eP	22	40.00	0.0		* OCT 18, 1990 20h 15m 52.20± 3.47s					
BCH	54.01	301	P	21	36.90	-0.3		0.8s	9.40nm				5.0mb		41.414 N ±18.4km 23.844 E ±18.3km					
CMB	54.45	304	eP	21	40.20	-0.1	SBF	63.36	49	eP	22	42.60	0.5		DEPTH = 5.0km (geophysicist)					
LLA	54.79	303	eP	21	42.30	-0.5		0.8s	14.80nm				5.1mb		GREECE-BULGARIA BORDER REGION (363)					
PRS	55.11	302	eP	21	44.50	-0.6	WTS	63.37	40	eP	22	44.00	2.2		ML 2.4 (THE).					
SAO	55.20	303	eP	21	45.00	0.0		0.8s	25.00nm				5.3mb							
ARN	55.30	303	P	21	46.10	-0.4			e	22	55.50	39kmX		SRS	0.35	213	ePd	15	59.68	0.4
MHC	55.39	303	eP	21	47.50	0.2	CDF	63.41	44	eP	22	42.40	0.1				eS	16	06.92	
ORV	55.45	306	P	21	47.10	-0.4		0.8s	12.10nm				5.0mb	SOH	0.70	212	ePc	16	05.80	-0.4
		pP		22	00.00	50km	FEL	63.87	45	eP	22	57.34	11.9X				eS	16	17.68	
MIN	55.61	307	eP	21	47.50	-1.3	BOB	64.81	48	P	23	04.50	13.0X				eS	16	07.32	-0.1
GCC	55.65	303	eP	21	49.20	0.2	MBC	65.41	347	ePc	22	54.90	0.2				eS	16	18.72	
BRK	55.91	304	eP	21	51.30	0.5		0.9s	30.00nm				5.3mb	KNT	0.76	251	ePd	16	07.32	-0.1
LBFM	55.93	308	P	21	50.00	-0.4	SQTA	66.03	46	iP	23	02.80	3.5X				eS	16	11.00	0.0
PCC	55.99	304	eP	21	51.30	-0.1		0.6s	13.50nm				5.1mb	VAY	0.96	265	ePn	16	11.00	0.0
LTCM	55.99	307	P	21	50.50	-0.9			i	23	12.20	30kmX		OUR	1.08	174	iPc	16	13.02	0.0
WDC	56.34	307	eP	21	51.40	-2.5	GRF	66.04	43	ePc	23	12.70	13.5X		S.D. = 0.4 on 5 of 5 obs.					
LIC	56.85	94	P	21	56.62	-1.3		1.4s	25.00nm				4.0Msz		* OCT 18, 1990 21h 14m 38.17s					
	Z	20s	0.11um			4.0Msz	WATA	66.28	46	iP	23	13.20	12.2X		59.514 N 152.748 W					
KIC	57.09	94	P	21	58.02	-1.6		0.8s	8.30nm				26 40.80		DEPTH = 76.3km					
FHC	57.45	307	eP	22	02.50	0.7			i(Sg)			26 48.50		SOUTHERN ALASKA (2)						
YKA	57.54	334	eP	22	00.50	-1.5						26 48.50		<AGS-P>.						
	0.9s	26.90nm				5.3mb	CTI	66.35	47	P	23	13.50	12.1X	OPT	0.28	300	eP	14	49.69	-0.5
LPF	57.84	44	eP	22	04.60	0.3	NB2	66.68	31	P	23	03.00	-0.1				eS	14	58.76	
	0.7s	6.60nm				4.9mb		1.2s	12.00nm			4.8mb	AUE	0.35	244	eP	14	49.72	-0.8	
GRR	58.02	44	eP	22	06.00	0.4	INK	66.86	337	eP	23	03.00	-1.1	AUH	0.39	247	eP	14	50.69	-0.2
	0.7s	14.35nm				5.2mb		0.7s	30.00nm			5.4mb	AUI	0.39	243	eP	14	50.18	-0.6	
EPF	58.16	50	eP	22	08.00	1.2							XLV	0.53	96	iP	14	51.28	-0.7	
	0.9s	25.40nm				5.4mb	FVI	67.12	46	P	23	19.00	12.9X				eS	15	01.96	
MFF	58.23	46	eP	22	07.80	0.7	CLL	67.19	41	eP	23	05.00	-1.5				eS	15	02.25	-0.2
	0.9s	19.65nm				5.2mb			i	23	19.20	50km	HOM	0.58	75	iP	14	52.25	-0.2	
FLN	58.33	43	eP	22	08.30	0.6	KHC	67.59	44	eP	23	22.20	13.1X				eS	15	03.54	
	0.8s	18.80nm				5.3mb	BRG	67.79	42	iPc	23	23.40	13.1X	CDD	0.75	219	iP	14	53.11	-1.2
	Z	20s	0.22um			4.3Msz		0.8s	20.00nm								eS	15	05.27	
LDF	58.53	43	eP	22	09.00	0.6	HFS	67.83	32	eP	23	09.50	-0.8	CNPM	0.77	88	iP	14	53.76	-0.8
	0.8s	12.10nm				5.1mb		1.1s	8.80nm			4.7mb					iS	15	06.40	
LFF	58.64	48	eP	22	10.50	0.5	VOY	67.91	47	ePKP	23	10.20	-1.0	PDB	0.78	291	eP	14	53.80	-0.9
	1.0s	28.00nm				5.3mb			e	23	24.00	49km	MCNL	0.88	249	eP	14	54.41	-1.4	
LPO	58.93	48	eP	22	12.70	0.7	PRU	68.19	43	Pc	23	26.20	13.4X	NNL	0.91	54	iP	14	56.40	0.3
	0.7s	28.65nm				5.5mb		1.5s	29.00nm				RED	0.91	359	iP	14	55.40	-0.8	
RJF	59.22	47	eP	22	14.30	0.2	LJU	68.35	47	e(PKP)	23	10.50	-3.4X	RSO	0.95	360	iP	14	56.20	-0.7
	0.8s	20.15nm				5.3mb			e	23	26.50	58km				iS	15	10.52		
	Z	22s	0.40um			4.5Msz	KSP	69.28	42	ePc	23	33.00	13.5X	RDT	1.08	9	iP	14	57.38	-0.9
LSF	59.33	46	eP	22	15.20	0.4	SRO	70.81	45	iP	23	41.80	13.0X				eS	15	11.85	
	0.8s	17.45nm				5.2mb			i	24	32.60	215kmX	NKA	1.45	31	eP	15	03.92	0.9	
CAF	59.57	48	eP	22	17.00	0.5	KRA	71.66	42	eP	23	47.50	13.6X	CKL	1.70	7	iP	15	05.84	-0.7
	0.9s	16.40nm				5.2mb			e	23	50.80	11kmX	BGL	1.76	6	iP	15	06.78	-0.6	
TCF	59.81	46	eP	22	18.60	0.5	FBA	72.33	333	iPd	23	36.90	-0.7	SEW	1.77	69	eP	15	05.46	-1.9
	0.7s	13.25nm				5.2mb		1.0s	33.00nm			5.2mb	KDC	1.78	176	iPd	15	05.50	-1.9	
MAF	60.04	46	eP	22	20.00	0.3	OHR	73.41	51	eP	23	36.00	-8.5X	CRP	1.78	9	iP	15	07.11	-0.6
	0.7s	4.40nm				4.7mb	IMA	74.65	335	iPc	23	51.20	0.0	SVW	2.15	319	iPd	15	11.30	-1.3
BGF	60.27	46	eP	22	21.40	0.2	MLR	76.34	46	eP	24	02.50	1.2	SUA	2.19	26	iP	15	12.67	-0.6
	0.8s	10.75nm				5.0mb	BCAO	79.82	89	iPc	24									

18d 21h

BALM 5.40 69 eP 15 55.15 -2.8
 YAH 5.60 77 eP 15 58.50 -2.4
 HDA 5.62 27 eP 15 58.34 -2.6
 CCB 5.65 22 eP 15 58.34 -3.0
 FBA 5.88 21 iPd 16 01.60 -3.0
 GLM 6.03 22 eP 16 03.52 -3.3
 IMA 6.59 357 iPc 16 12.60 -2.0
 49 obs. associated

* OCT 18, 1990 21h 51m 21.43 ± 1.93s
 39.974 N ± 14.2km 23.299 E ± 6.3km
 DEPTH = 5.0km (geophysicist)
 AEGEAN SEA (365)
 ML 2.2 (THE).

LIT 0.63 282 ePc 51 34.06 -0.1
 OUR 0.64 55 ePd 51 34.10 0.0
 THE 0.71 339 iPc 51 35.54 0.0
 SOH 0.85 3 iPc 51 37.66 -0.7
 SRS 1.16 11 ePc 51 44.26 0.6
 GRG 1.20 325 ePc 51 44.50 0.3
 KNT 1.23 346 ePd 52 01.46 -0.2
 VAY 1.46 338 ePn 51 48.40 0.0
 OHR 2.22 302 ePn 52 03.30 3.8X
 S.D. = 0.4 on 8 of 9 obs.

OCT 18, 1990 22h 21m 16.16 ± 0.88s
 3.431 S ± 3.2km 143.544 E ± 4.9km
 DEPTH = 46.3 ± 7.7 km
 5.4mb (18 obs.) 4.5MsZ (2 obs.)
 NEAR N COAST OF PAPUA NEW GUINEA(200)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 14S, 25C
 Centroid Location:
 Origin Time 22:21:16.5 0.6
 Lat 3.16S 0.08 Lon 143.36E 0.08
 Dep 15.0 BDY Half-duration 1.5
 Moment Tensor: Scale 10**16 Nm
 Mrr=5.47 0.35 Mtt=-3.25 0.38
 Mff=-2.22 0.47 Mtr=1.09 1.45
 Mtf=1.49 1.14 Mtt=3.64 0.37
 Principal Axes:
 T Val=6.12 Plg=70 Azm=309
 N 0.29 20 131
 P -6.41 1 41
 Best Double Couple:Mo=6.3*10**16
 NP1:Strike=112 Dip=48 Slip= 63
 NP2: 329 49 116

PMG 6.94 149 eP 22 57.00 -0.9
 1.0s 280.00nm 6.0mb
 CTA 16.77 171 iPc 25 13.90 4.5X
 1.0s 32.00nm 4.4mb
 GUA 16.91 5 eP 25 12.80 1.5
 0.8s 89.55nm 4.9mb
 GUMO 16.96 4 eP 25 13.00 1.2
 0.8s 28 18.00
 0.8s 25 19.00 1.0
 0.8s 28 15.00
 0.8s 30 45.00
 WB5 18.64 208 eP 25 31.60 -1.0
 0.8s 28 51.20
 KUPT 20.88 250 eP 25 46.50 -10.5X
 0.5s 384.20nm
 ASPA 22.17 204 eP 26 10.10 0.2
 0.4s 29.80nm 5.1mb
 Z 23s 0.90um 4.1MsZ
 QLP 23.03 178 eP 26 20.00 1.7
 RMO 23.47 168 eP 26 23.00 0.5
 BRS 25.41 161 iPd 26 41.50 0.3
 0.8s 26 49.50
 CMS 27.99 176 eP 27 05.00 0.3
 STK 28.36 183 iPd 27 02.80 -5.3X
 0.8s 10.00nm 4.5mb
 KKM 28.87 289 eP 27 08.00 -5.0X
 DZM 28.93 132 iPc 27 12.00 -1.5
 BWA 31.17 172 eP 27 33.30 0.2

CAN 32.13 172 eP 27 42.20 0.7
 BFD 33.59 181 eP 27 54.80 0.6
 MRWA 36.63 223 eP 28 19.00 -1.1
 SSE 40.41 330 Pc 28 52.00 0.4
 1.2s 64.00nm 5.3mb
 NJ2 42.37 328 Pc 29 08.00 0.3
 WHN 43.80 323 Pc 29 20.00 0.7
 1.0s 20.00nm 4.8mb
 SNG 44.12 284 eP 29 21.80 -0.4
 NNT 46.34 291 eP 29 39.40 -0.4
 THZ 46.34 150 P 29 39.30 -0.3
 GYA 46.41 312 P 29 41.40 1.0
 TIA 46.53 330 eP 29 40.20 -0.8
 TCW 46.66 148 Pc 29 42.00 0.0
 LTZ 46.79 151 P 29 43.20 0.1
 MNG 46.89 147 Pc 29 43.80 -0.1
 0.9s 31.00nm 5.3mb
 MRW 46.90 148 P 29 43.50 -0.4
 NST 46.95 295 eP 29 44.50 -0.2
 WDW 47.08 148 P 29 44.60 -0.7
 MTW 47.28 147 P 29 46.60 -0.3
 MOW 47.32 147 P 29 46.70 -0.6
 BLW 47.41 147 P 29 47.50 -0.4
 KMI 48.71 308 Pc 29 59.00 0.4
 1.5s 120.00nm 5.7mb
 CHG 49.14 298 eP 30 01.20 -0.5
 MDJ 49.44 347 eP 30 01.50 -2.1
 XAN 49.53 322 Pc 30 03.60 -0.9
 CN2 49.76 343 Pc 30 04.50 -1.5
 5.0s 300.00nm 5.6mb X
 BJI 50.02 333 eP 30 07.00 -1.1
 1.5s 78.00nm 5.5mb
 CD2 51.03 315 P 30 15.80 -0.2
 1.1s 48.00nm 5.4mb
 HHC 52.87 330 eP 30 28.80 -1.0
 BTO 53.48 328 eP 30 34.00 -0.2
 LZH 54.04 320 iPc 30 38.50 0.0
 8.0s 290.00nm 5.4mb X
 pP 30 48.00 31kmX
 GTA 58.58 321 iPc 31 11.00 0.1
 1.2s 60.00nm 5.6mb
 LSA 59.95 307 iPc 31 21.60 0.6
 GUN 63.59 303 P 31 45.20 -0.1
 1.0s 120.00nm 5.9mb
 PKI 63.87 303 P 31 46.80 -0.3
 1.1s 55.00nm 5.5mb
 KKN 64.05 303 P 31 47.80 -0.3
 DMN 64.13 303 P 31 48.90 0.2
 GKN 64.65 303 P 31 51.80 -0.2
 HYB 67.34 290 ePc 32 08.00 -1.2
 1.0s 40.00nm 5.4mb
 GBA 67.71 286 P 32 11.50 0.0
 WMO 68.62 320 iPc 32 16.50 -0.2
 NDI 71.11 302 iPc 32 31.00 -1.2
 POO 71.95 291 iPc 32 34.00 -3.4X
 KSH 75.09 312 P 32 57.00 1.6
 SVW 79.38 26 eP 33 20.00 1.3
 IMA 82.41 21 iPc 33 35.30 0.6
 PMR 82.43 26 iPc 33 34.40 -0.2
 MAW 83.29 202 iPc 33 40.00 1.0
 0.9s 48.00nm 5.5mb
 FBA 84.19 24 iPc 33 42.90 -0.7
 SPA 86.59 180 iPc 33 56.10 0.3
 0.9s 44.55nm 5.7mb
 MAIO 87.22 306 eP 34 00.00 0.7
 INK 90.55 22 eP 34 13.50 -0.7
 MBC 95.00 14 eP 34 34.50 -0.2
 1.2s 7.00nm 5.0mb
 BRG 116.69 327 iPKP 39 57.80 0.8
 1.1s 14.00nm
 CLL 116.97 328 iPKPd 39 57.90 0.4
 0.9s 9.00nm
 FEL 121.57 326 ePKP 40 06.29 -0.3
 BSF 122.27 327 ePKP 40 07.80 -0.1
 1.1s 22.00nm
 HAU 122.40 327 ePKP 40 08.20 0.2
 1.0s 14.00nm
 LPG 123.64 325 ePKP 40 11.10 0.2
 0.9s 5.75nm
 LPL 123.64 325 ePKP 40 11.10 0.3
 1.0s 7.00nm
 PGF 123.88 321 ePKP 40 11.10 -0.1
 0.9s 16.40nm
 SBF 124.15 323 ePKP 40 11.40 -0.2
 1.0s 16.00nm
 LOR 124.19 328 ePKP 40 11.80 0.3

1.2s 11.90nm
 LBF 124.30 327 ePKP 40 11.90 0.1
 1.0s 8.00nm
 SSF 124.50 328 ePKP 40 12.40 0.3
 1.0s 10.00nm
 AVF 124.76 328 ePKP 40 12.50 -0.1
 0.9s 4.90nm
 FRF 124.80 323 ePKP 40 12.80 0.0
 0.9s 14.75nm
 LMR 125.01 323 ePKP 40 13.40 0.2
 LRG 125.03 323 ePKP 40 13.50 0.3
 0.9s 14.75nm
 BCAA 125.14 273 iPKPd 40 14.60 0.3
 0.8s 9.00nm
 id 47 48.00
 BGF 125.17 328 ePKP 40 13.80 0.4
 1.0s 11.00nm
 LDF 125.33 331 ePKP 40 13.80 0.1
 1.0s 8.00nm
 FLN 125.39 332 ePKP 40 13.70 0.0
 1.0s 16.00nm
 Z 21s 0.13um 4.6MsZ
 MAF 125.54 328 ePKP 40 14.60 0.4
 1.0s 7.00nm
 TCF 125.68 328 ePKP 40 14.80 0.3
 1.1s 18.30nm
 GRR 125.83 331 ePKP 40 14.80 0.1
 1.1s 17.10nm
 LSF 126.07 328 ePKP 40 15.20 0.0
 1.2s 17.85nm
 LPF 126.16 331 ePKP 40 15.40 0.1
 1.0s 16.00nm
 CAF 126.63 327 ePKP 40 17.10 0.7
 1.1s 12.20nm
 RJF 126.69 327 ePKP 40 16.80 0.4
 Z 21s 0.08um 4.3MsZ
 MFF 126.70 329 ePKP 40 16.40 0.0
 1.1s 12.20nm
 LPO 127.27 327 ePKP 40 18.30 0.8
 1.0s 16.00nm
 LFF 127.34 327 ePKP 40 18.20 0.5
 1.2s 20.85nm
 EPF 128.80 326 ePKP 40 21.00 0.4
 1.2s 8.95nm
 CNCB 142.93 124 PKP 40 45.80 -2.4
 LPB 142.97 123 PKP 40 45.00 -3.1X
 ZOBO 143.08 123 PKP 40 45.00 -3.5X
 CCH 144.14 126 PKP 40 50.00 0.1
 TOV 146.31 78 ePKP 40 54.50 1.1
 CEOS 147.84 79 ePKP 40 54.50 -1.4
 KIC 148.27 277 PKPc 41 00.06 3.6X
 1.3s 69.00nm
 TIC 148.53 277 PKPc 41 00.48 3.6X
 1.1s 36.50nm
 LIC 148.56 276 PKPc 41 00.64 3.7X
 1.1s 59.50nm
 GUAC 148.69 76 ePKP 41 01.50 4.2X
 SIV 148.93 129 iPKPc 41 01.80 4.4X
 LLAV 149.09 75 ePKP 41 02.00 4.2X
 OLLA 149.18 76 ePKP 41 02.00 4.0X
 PPD 150.82 151 ePKP 41 04.90 4.8X
 0.8s 41 12.60
 VAO 151.80 159 ePKP 41 09.60 7.9X
 BMA 152.97 164 (PKP) 41 23.00 19.7X
 S.D. = 0.7 on 98 of 115 obs.

OCT 18, 1990 23h 22m 22.28 ± 1.57s
 1.897 S ± 7.4km 100.102 E ± 6.6km
 DEPTH = 68.0 ± 12.7 km
 5.4mb (2 obs.)
 SOUTHERN SUMATRA (274)

KGM 5.04 40 ePc 23 39.20 2.0
 0.6s 332.90nm 5.7mb
 0.8s 24 46.40
 0.8s 25 30.80
 KLM 5.20 17 ePd 23 40.00 0.6
 IPM 6.50 8 ePc 23 59.10 1.6
 0.4s 95.30nm 5.7mb
 0.8s 24 38.50
 SNG 9.03 3 eP 24 29.70 -2.6
 1.7s 792.31nm 6.3mb
 NNT 14.40 359 eP 25 46.00 1.9
 KKM 17.92 64 ePc 26 28.30 -0.3
 1.0s 58.20nm 4.7mb
 BDT 19.05 357 eP 26 40.80 -1.2
 0.8s 36.30nm 4.7mb

LOE	19.25	5 eP	26 41.00	-3.2X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														</
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18d 23h

SGO 2.76 325 P 59 14.50 -0.8
 EVR 3.52 79 eP 59 27.50 1.3
 KZN 3.94 58 eP 59 32.00 -0.2
 VLI 4.69 108 eP 59 43.50 0.7
 S.D. = 0.7 on 16 of 16 obs.

& OCT 19, 1990 00h 13m 06.56s
 59.792 N 153.270 W
 DEPTH = 128.4km
 SOUTHERN ALASKA (2)
 <AGS-P>.

PMS 2.34 50 eP 13 43.68 -1.6
 SKT 2.36 20 eP 13 43.71 -1.7
 KNIM 2.83 76 eP 13 49.21 -2.3
 MTU 2.84 84 iP 13 50.45 -1.2
 GHO 2.91 45 eP 13 50.43 -2.3
 CUT 3.00 28 eP 13 52.23 -1.5
 GLI 3.26 68 eP 13 55.43 -1.7
 VZW 3.56 66 eP 13 59.59 -1.7
 VLZ 3.69 66 iP 14 01.80 -1.1
 KLU 4.00 62 eP 14 04.43 -2.7
 GLB 4.94 66 eP 14 18.26 -1.6
 11 obs. associated

* OCT 19, 1990 00h 27m 52.45 ± 2.10s
 40.087 N ± 20.9km 24.786 E ± 8.8km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)
 ML 2.9 (THE).

OUR 0.66 292 ePc 28 04.88 -0.8
 ALN 1.26 49 iPd 28 15.44 -0.3
 SOH 1.32 304 ePd 28 16.00 -0.8
 SRS 1.37 319 ePc 28 18.28 0.7
 LIT 1.76 271 ePd 28 23.80 0.6
 KNT 1.79 307 ePd 28 23.56 -0.1
 BZS 6.00 338 ePc 29 24.00 0.7
 S.D. = 0.8 on 7 of 7 obs.

OCT 19, 1990 00h 32m 06.93 ± 0.48s
 39.568 N ± 4.2km 107.559 W ± 4.5km
 DEPTH = 5.0km (geophysicist)
 COLORADO (479)
 ML 2.3 (NEIS). Felt (111) at New Castle.

RW2 1.26 186 iPc 32 30.83 -0.2
 PV08 1.30 221 eP 32 30.78 -1.0
 RW1 1.32 188 iPc 32 31.70 -0.3
 RW3 1.32 184 P 32 31.51 -0.5
 RW6 1.39 192 eP 32 33.00 -0.4
 RW4 1.41 182 eP 32 33.53 -0.1
 PV07 1.41 217 iP 32 32.64 -0.9
 PV06 1.42 210 iPc 32 33.09 -0.6
 RW5 1.50 188 eP 32 35.20 0.3
 PV04 1.57 222 P 32 35.87 0.1
 PV09 1.63 229 P 32 36.88 0.3
 PV01 1.63 209 eP 32 37.10 0.4
 PV02 1.64 214 ePc 32 37.37 0.6
 PV03 1.65 218 iPc 32 37.26 0.3
 PV10 1.66 225 iPc 32 38.54 1.5
 GOL 1.69 85 ePc 32 37.40 -0.2
 GLD 1.81 83 e(P) 32 39.50 0.3
 PV05 1.91 219 ePc 32 39.68 -1.0
 DAU 2.96 288 eP 32 56.00 0.2
 BW06 3.54 335 eP 33 03.00 -0.9
 DUG 4.09 280 e(P) 33 12.50 0.9
 ANMO 4.70 169 P 33 17.50 -2.8X
 ALQ 4.70 169 e(P) 33 21.50 1.1
 S.D. = 0.7 on 22 of 23 obs.

& OCT 19, 1990 00h 39m 21.84s
 59.670 N 152.224 W
 DEPTH = 70.2km
 SOUTHERN ALASKA (2)
 <AGS-P>.

HOM 0.29 92 eP 39 33.00 -0.1
 XLV 0.33 130 eP 39 32.61 -0.8
 OPT 0.51 268 iP 39 34.48 -0.5
 CNPM 0.52 106 iP 39 34.46 -0.6
 NNL 0.60 51 eP 39 35.93 0.1
 AUI 0.70 242 eP 39 36.10 -0.9
 RED 0.80 340 iP 39 37.48 -0.8
 RSO 0.84 342 eP 39 38.07 -0.7
 RDT 0.91 354 eP 39 38.72 -0.9
 PDB 1.00 278 eP 39 39.45 -1.2
 CDD 1.04 225 eP 39 40.10 -1.1
 MCNL 1.18 247 eP 39 41.64 -1.4
 SEW 1.47 72 eP 39 45.03 -1.7
 BGL 1.60 357 eP 39 47.47 -1.2
 CRP 1.60 1 eP 39 48.31 -0.5
 KNIM 2.35 71 eP 39 56.36 -2.6
 VZW 3.14 61 eP 40 07.13 -2.9
 VLZ 3.27 61 eP 40 08.67 -3.1
 18 obs. associated

OCT 19, 1990 00h 43m 06.84 ± 0.57s
 39.565 N ± 5.4km 107.580 W ± 4.5km
 DEPTH = 5.0km (geophysicist)
 COLORADO (479)
 ML 2.1 (NEIS). Felt at New Castle.

RW2 1.26 185 iPc 43 30.83 -0.1
 PV08 1.29 220 P 43 30.66 -0.8
 RW1 1.31 187 iPc 43 31.70 -0.1
 RW3 1.32 184 eP 43 31.75 -0.1
 RW6 1.39 192 eP 43 32.92 -0.3
 PV07 1.40 217 eP 43 32.65 -0.6
 RW4 1.41 181 P 43 33.46 0.0
 PV06 1.41 209 iPc 43 33.09 -0.3
 RW5 1.50 188 P 43 35.28 0.6
 PV04 1.56 222 P 43 35.82 0.4
 PV09 1.61 229 P 43 36.56 0.2
 PV01 1.62 209 eP 43 37.05 0.6
 PV02 1.63 214 iPc 43 37.35 0.9
 PV03 1.64 217 iPc 43 37.22 0.6
 PV10 1.64 224 iPc 43 38.44 1.7X
 GOL 1.71 85 eP 43 37.50 -0.2
 GLD 1.83 83 e(P) 43 39.50 0.1
 PV05 1.90 219 iPc 43 39.66 -0.8
 DAU 2.95 288 e(P) 43 55.50 0.0
 BW06 3.54 336 eP 44 00.50 -3.3X
 S.D. = 0.5 on 18 of 20 obs.

? OCT 19, 1990 01h 45m 47.61 ± 0.99s
 38.968 N ± 7.9km 27.152 E ± 17.8km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

IZM 0.58 171 ePg 45 59.30 0.0
 EZN 1.07 323 ePg 46 07.90 0.2
 EDC 1.48 22 ePn 46 14.80 0.5
 KGT 1.49 4 iPn 46 13.70 -0.6
 S.D. = 0.8 on 4 of 4 obs.

OCT 19, 1990 01h 49m 31.22 ± 0.27s
 36.564 N ± 5.1km 139.264 E ± 5.2km
 DEPTH = 117.4km (3 depth phases)
 4.4mb (5 obs.)
 HONSHU, JAPAN (227)

CHJJ 0.56 203 iPd 49 49.80 0.3
 S 50 03.20

NIIJ 0.71 343 iP+ 49 50.60 0.0
 KAKJ 0.82 116 iPd 49 51.20 -0.3
 MAT 0.85 269 iPd 49 51.90 0.0
 IS 50 07.50

MTWJ 1.17 271 iPd 49 55.50 0.2
 IIDJ 1.54 226 iPd 50 00.10 0.7
 YAMJ 1.72 21 eP 50 02.10 0.6
 TSRJ 2.85 250 P 50 17.00 0.9
 OFUJ 3.15 36 P 50 20.50 0.4

WKYJ 3.80 233 P 50 28.60 -0.4
 YONJ 4.91 255 iPd 50 44.40 0.4
 TKSJ 4.98 240 P 50 45.50 0.5
 MRRJ 6.02 13 eP 50 59.00 -0.1
 HOOJ 6.59 27 P 51 05.80 -1.2
 SHNJ 7.09 252 P 51 24.00 10.1X
 KUSJ 7.75 31 eP 51 19.30 -3.5X
 KUMJ 8.03 242 P 51 29.50 2.8X
 KAGJ 8.79 235 P 51 37.50 0.9
 SSE 15.98 255 eP 53 14.70 4.1X
 BJI 18.44 288 eP 53 36.50 -3.7X
 GUN 45.48 275 P 57 40.80 0.0
 PKI 46.00 275 P 57 44.40 -0.5
 KKN 46.01 275 P 57 44.60 -0.2
 DMN 46.23 275 P 57 46.40 -0.2
 GKN 46.44 276 P 57 47.60 -0.5
 MTN 49.74 190 iPc 58 12.70 -0.7

0.4s 111.00nm 6.1mb X
 FBA 50.42 32 P 58 19.10 1.0
 e 58 48.20 125km

INK 55.59 27 eP 58 56.00 -0.2
 WB5 56.33 186 eP 59 00.90 -1.1
 MBC 57.46 16 eP 59 09.50 0.0
 1.0s 6.00nm 4.5mb

pP 59 37.00 114km
 GBA 59.46 264 P 59 23.40 -0.7
 0.8s 4.30nm 4.6mb
 ASPA 60.12 186 eP 59 27.90 -0.4
 0.5s 21.70nm 5.5mb

MBL 60.28 201 iPd 59 28.40 -1.0
 NANU 62.93 205 eP 59 46.70 -0.5
 PNT 69.70 43 eP 00 30.00 0.1
 HFS 73.79 335 eP 00 52.00 -2.0
 0.8s 2.00nm 4.0mb
 NB2 73.94 336 P 00 53.60 -1.3
 0.7s 2.10nm 4.0mb

LRM 75.68 43 eP 01 06.20 0.8
 TNP 77.54 52 P 01 17.10 1.3
 pP 01 46.30 114km
 CLL 80.63 329 e(P) 01 32.00 0.1
 LPB 148.60 58 ePKP 09 04.00 1.1
 CNCB 148.88 58 PKP 09 08.70 5.2X
 CCH 150.52 56 ePKP 09 10.00 4.4X
 SIV 152.68 47 ePKP 09 10.00 1.6
 S.D. = 0.8 on 37 of 44 obs.

% OCT 19, 1990 01h 57m 16.44 ± 0.84s
 39.144 N ± 7.5km 20.563 E ± 9.2km
 DEPTH = 5.0km (geophysicist)
 GREECE-ALBANIA BORDER REGION (392)
 MD 2.8 (ATH).

KEK 0.82 314 ePg 57 32.80 0.0
 VLS 0.97 179 ePb 57 34.80 -0.5
 EVR 1.00 103 ePb 57 35.50 -0.4
 KZN 1.49 38 ePb 57 44.00 0.1
 ITM 2.24 151 ePb 57 55.50 0.8
 S.D. = 0.7 on 5 of 5 obs.

& OCT 19, 1990 02h 08m 52.50s
 37.965 N 122.355 W
 DEPTH = 2.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 2.7 (BRK).
 Mo=5.1+10+13 Nm (BRK). Felt
 (V) at San Pablo. Also felt at
 Richmond.

ZSP 0.08 104 iPc 08 54.30 0.1
 BRK 0.12 141 iPd 08 54.80 -0.1
 IS 08 57.10
 BKS 0.13 133 iPd 08 55.00 -0.1

PCC	0.46	183	iS	08 57.50	
NWRM	0.65	320	iP	09 01.50	-0.3
MHC	0.84	137	ePd	09 04.30	-1.1
			iS	09 08.40	-0.9
ARN	0.90	133	eP	09 21.00	
GCC	0.98	163	eP	09 09.00	-1.5
SAO	1.40	149	iPc	09 10.00	-1.8
CMB	1.56	87	ePd	09 15.90	-3.1
ORV	1.72	23	e(P)	09 19.00	-2.3
LLA	1.75	140	ePc	09 20.20	-3.5
PRS	1.81	154	ePc	09 21.70	-2.5
BCH	3.32	146	eP	09 22.40	-2.5
			eP	09 43.80	-2.9

14 obs. associated

* OCT 19, 1990 02h 26m 52.84 ± 0.97s
 35.083 N ± 11.5km 26.257 E ± 6.8km
 DEPTH = 33.0km (normal)

CRETE (370)
 MD 3.8 (ATH).

NPS	0.56	289	iPgc	27 05.10	0.8
KAP	0.88	58	iPbc	27 07.80	-1.1
VAM	1.71	281	ePn	27 25.00	4.2X
			eSn	27 47.20	
ARG	1.90	53	ePn	27 22.50	-1.0
			eSn	27 47.20	
APE	2.07	344	ePn	27 26.50	0.6
SMG	2.66	10	ePb	27 36.50	2.2
KSL	2.90	68	ePn	27 39.50	1.8
CIN	2.91	30	eP	27 37.00	-0.9
VLI	3.15	302	ePn	27 40.00	-1.3
IZM	3.41	13	ePn	27 48.00	3.0X
ITM	4.08	302	ePn	27 55.00	0.5
BCK	4.23	55	ePn	27 56.50	-0.1
EVR	5.23	318	ePn	28 09.50	-1.3
JVI	8.22	110	eP	28 51.00	-1.7
MBH	9.01	124	eP	29 05.00	1.4

S.D. = 1.4 on 13 of 15 obs.

OCT 19, 1990 02h 39m 05.79 ± 1.25s
 7.139 S ± 5.7km 129.318 E ± 6.2km
 DEPTH = 98.2 ± 12.9 km
 5.1mb (11 obs.)

BANDA SEA (280)

MTN	5.95	163	eP	40 33.10	0.2
KUPT	6.39	242	eP	40 32.00	-7.1X
			eS	41 40.50	
KNA	8.57	184	iPc	41 07.80	-1.2
			eS	42 36.00	
JAY	12.24	69	ePd	41 59.00	1.0
WB5	13.58	159	iPd	42 11.70	-3.9X
			eS	44 34.00	
TRT	16.55	267	iPd	42 55.10	1.7
QIS	16.65	144	eP	42 53.00	-1.6
			iS	45 45.20	
MBL	16.69	212	eP	42 55.20	0.2
	0.3s	11.00nm			4.6mb
			eS	45 34.00	
ASPA	17.01	165	eP	42 57.10	-2.0
	0.8s	164.60nm			5.3mb
			i	45 53.70	
PMG	17.79	99	eP	43 09.50	0.8
	1.0s	104.00nm			5.0mb
KKM	18.51	315	ePc	43 17.80	0.4
NANU	20.29	219	iPc	43 36.30	0.4
	0.4s	57.00nm			5.3mb
			eS	47 16.70	
CTA	20.87	130	iPd	43 42.70	0.8
	0.8s	59.70nm			5.0mb
			iS	47 37.00	
MEKA	21.92	207	eP	43 54.50	2.2
			eS	47 51.00	
QLP	23.99	145	iPd	44 13.30	0.9
			e	48 44.00	
			i	49 18.70	
COOL	24.83	197	eP	44 21.00	0.5
MRWA	25.30	208	eP	44 25.00	0.2
	0.4s	10.00nm			4.6mb
			eS	49 01.00	
BAL	26.17	205	eP	44 34.00	1.2
KL8	26.62	202	eP	44 37.00	0.1
RMO	26.69	138	iPc	44 36.00	-1.6
STK	27.15	157	iPd	44 41.50	-0.2
	0.6s	40.00nm			5.1mb
			eS	49 54.90	

MUN	27.57	205	eP	44 45.00	-0.5
CMS	28.72	150	iPd	44 55.60	-0.3
			eS	50 31.00	
ADE	29.01	164	eP	44 58.30	-0.3
	1.0s	100.00nm			5.4mb
BRS	30.01	135	iPc	45 07.00	-0.5
BFD	32.23	160	iPc	45 28.10	1.3
	0.8s	86.00nm			5.6mb
			e	46 30.00	
			e	51 52.00	
DZM	38.74	117	iPc	46 22.40	0.0
CHG	39.52	311	ePc	46 29.10	0.3
	1.0s	15.25nm			4.8mb
WHN	40.12	340	eP	46 35.50	2.0
XAN	45.28	336	P	47 18.50	3.1X
LZH	49.21	333	eP	47 46.00	-0.3
LSA	51.83	317	P	48 07.00	0.3
GTA	53.77	332	eP	48 20.30	-0.1
GUN	54.54	312	P	48 25.20	-1.3
PKI	54.70	311	P	48 26.20	-1.5
KKN	54.92	311	P	48 27.40	-1.7
DMN	54.95	311	P	48 28.20	-1.2
GBA	55.48	292	P	48 32.00	-1.0
GKN	55.51	311	P	48 31.60	-1.7
WMO	63.14	327	P	49 25.00	-0.5
MAIO	78.25	309	iPd	50 58.00	1.4
SPA	82.91	180	iPd	51 20.10	-0.7
	0.6s	18.70nm			5.2mb
ARE	148.79	139	ePKP	58 45.00	4.4X
VAO	149.83	187	(PKP)	58 46.00	4.3X
CNCB	150.69	144	PKP	58 45.30	1.5
			i	58 51.00	
PPD	151.00	179	ePKP	58 48.40	4.9X
ZOBO	151.03	144	PKP	58 45.20	0.9
	1.1s	23.78nm			
			i	58 50.00	
CCH	151.24	148	PKP	58 51.50	7.2X
SIV	154.82	156	PKP	58 58.00	9.1X
			i	59 13.80	

S.D. = 1.1 on 41 of 49 obs.

* OCT 19, 1990 03h 05m 17.31 ± 0.58s
 23.986 S ± 5.9km 66.844 W ± 14.4km
 DEPTH = 234.2 ± 22.0 km

JUJUY PROVINCE, ARGENTINA (128)

ANT	3.28	274	iPc	06 13.00	0.6
			i	06 47.70	
			i	06 52.20	
CCH	6.60	6	P	06 54.30	0.5
CNCB	7.22	351	P	07 03.00	1.1
			S	08 20.00	
RTLL	7.46	191	ePd	07 03.40	-0.9
			eS	08 25.00	
LPB	7.51	351	P	07 06.00	0.6
			S	08 28.00	
RTCB	7.67	193	eP	07 06.90	-0.2
ZOBO	7.77	351	P	07 08.90	0.0
			S	08 35.00	
RTBS	7.99	196	ePd	07 11.80	0.7
RTCV	7.99	190	ePc	07 11.00	-0.2
ARE	8.66	329	eP	07 19.00	-1.3
			eS	08 51.00	
SIV	9.63	35	iPc	07 29.80	-2.5
PPD	14.43	85	eP	08 34.40	1.8
VAO	18.26	91	eP	09 15.30	-0.8
			e	09 18.40	
KIC	67.61	72	(P)	15 51.80	0.6

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

OCT 19, 1990 03h 28m 07.57 ± 0.56s
 38.391 S ± 6.0km 176.154 E ± 9.1km
 DEPTH = 177.4 ± 6.2 km
 4.8mb (2 obs.)

NORTH ISLAND, NEW ZEALAND (159)

Felt at Wellington.

UTU	0.22	8	P	28 30.40	-0.9
HUTZ	0.25	191	eP	28 31.50	0.2
TAZ	0.32	61	Pc	28 30.70	-0.7
HITZ	0.44	224	Pc	28 32.10	0.2
HATZ	0.50	186	eP	28 32.40	0.2
WHH	0.56	152	P	28 32.30	-0.4
RATZ	0.56	212	P	28 32.90	0.3
WLZ	0.71	321	Pd	28 32.00	-1.3
			eS	28 48.60	
KETZ	0.81	209	P	28 34.70	0.6

NGZ	0.90	209	P	28 35.40	0.7
CNZ	0.94	210	P	28 35.70	0.7
DRZ	1.00	207	eP	28 37.00	1.4
MOH	1.07	134	P	28 36.70	0.9
NOZ	1.49	99	P	28 39.70	0.2
PUZ	1.69	80	Pc	28 40.50	-1.0
			S	29 03.90	
HBZ	1.87	66	Pc	28 42.50	-0.9
PGZ	2.23	178	P	28 48.70	1.4
			S	29 17.20	
MNG	2.28	193	Pd	28 49.00	1.0
			eS	29 17.90	
KIW	2.65	201	P	28 52.80	0.5
MTW	2.81	190	Pd	28 54.60	0.4
CAW	2.84	197	eP	28 54.90	0.3
WDW	3.01	197	P	28 56.80	0.2
BLW	3.02	190	P	28 57.10	0.3
MRW	3.05	201	P	28 57.10	0.0
			eS	29 34.70	
WEL	3.08	200	P	28 58.00	0.5
MOW	3.11	193	Pd	28 58.00	0.1
TCW	3.17	207	Pd	28 58.60	0.0
CCW	3.67	203	P	29 05.30	0.4
THZ	4.19	215	P	29 11.10	-0.6
KHZ	4.49	206	Pd	29 15.20	-0.3
LTZ	5.29	213	P	29 24.50	-1.5
MQZ	5.93	205	P	29 32.40	-2.0
TMP	7.46	216	eP	29 54.00	-0.6
			S	31 13.00	
MHZ	8.41	215	eP	30 03.10	-4.2X
MMCZ	8.44	216	eP	30 04.90	-2.7
DZM	18.28	330	iPc	32 11.80	1.2
ASPA	38.72	280	eP	35 18.60	2.6
	0.5s	12.90nm			4.9mb
WB5	40.49	285	eP	35 29.50	-1.0
SPA	51.80	180	iPd	37 04.50	5.5X
	1.0s	24.50nm			4.8mb
MAW	63.11	203	eP	38 21.00	3.2X
LIC	147.96	178	PKP	47 36.60	6.3X
KIC	148.10	178	PKP	47 37.00	6.5X
TIC	148.38	178	PKP	47 37.80	6.8X

S.D. = 1.1 on 37 of 43 obs.

& OCT 19, 1990 04h 01m 15.45s
 61.854 N 151.934 W
 DEPTH = 119.7km
 4.3mb (2 obs.)
 SOUTHERN ALASKA
 <AGS-P>.

SKT	0.23	56	iP	01 31.68	1.0
			eS	01 44.01	
CRP	0.60	190	iP	01 33.67	-0.0
BGL	0.63	200	iP	01 33.95	-0.7
CKL	0.69	197	iP	01 34.26	-0.8
SUA	0.69	124	iP	01 34.97	-0.1
			eS	01 49.83	
CUT	0.96	54	iP	01 36.78	-0.5
PWA	1.00	101	iP	01 37.09	-0.6
NKA	1.16	163	eP	01 40.32	0.9
PMS	1.29	117	iP	01 39.85	-1.0
RDT	1.30	190	iP	01 40.05	-1.0
			iS	01 59.41	
PLRM	1.36	100	iP	01 40.06	-1.5
PMR	1.36	100	iPc	01 40.10	-1.5
GHO	1.43	92	iP	01 41.18	-1.3
			eS	02 02.35	
RSO	1.45	196	iP	01 42.04	-0.9
			eS	02 02.62	
RED	1.50	196	iP	01 42.37	-0.9
			eS	02 03.01	
HUR	1.55	42	iP	01 43.11	-0.8
			eS	02 04.11	
SML	1.71	90	eP	01 44.26	-1.5
NNL	1.84	170	eP	01 47.34	-0.1
SVW	1.92	249	iPc	01 46.90	-1.5
RND	2.11	41	iP	01 49.64	-1.2
		</			

19d 04h

PDB	2.35	209	eS	02 19.93		
			iP	01 52.99	-0.8	
			eS	02 22.13		
CNPM	2.36	171	eP	01 52.24	-1.8	
			eS	02 20.38		
XLV	2.41	177	eP	01 52.68	-1.9	
GLI	2.53	111	iP	01 53.64	-2.5	
			eS	02 24.02		
KNIM	2.54	125	iP	01 53.33	-3.0	
			eS	02 24.01		
AUE	2.60	196	eP	01 55.80	-1.3	
VZW	2.70	105	iP	01 56.32	-2.2	
			eS	02 30.23		
TOA	2.73	82	iPc	01 58.00	-0.9	
VLZ	2.78	103	iP	01 57.17	-2.3	
			eS	02 31.90		
MTU	2.81	130	iP	01 57.60	-2.2	
KLU	2.89	95	iP	01 59.12	-1.9	
			eS	02 34.03		
MCNL	2.93	205	iP	02 00.30	-1.2	
NEA	3.02	24	eP	02 00.82	-1.9	
			eS	02 35.45		
CDD	3.05	197	iP	02 01.60	-1.6	
SDG	3.07	74	eP	02 02.21	-1.2	
WRH	3.15	32	eP	02 02.53	-1.9	
			eS	02 37.60		
CVA	3.27	111	eP	02 04.78	-1.2	
CCB	3.37	32	eP	02 05.26	-2.0	
			eS	02 42.91		
DDM	3.39	52	eP	02 07.89	0.1	
HDA	3.42	39	eP	02 06.18	-1.8	
			eS	02 44.36		
SGAM	3.53	110	eP	02 06.69	-2.8	
FBA	3.58	30	iPd	02 08.40	-1.8	
MID	3.68	129	iPd	02 10.30	-1.1	
GLM	3.75	31	eP	02 10.59	-1.9	
RAGM	3.82	109	eP	02 12.50	-0.9	
GLB	3.90	93	eP	02 12.50	-2.0	
DOT	4.04	60	eP	02 14.76	-1.7	
KDC	4.13	184	eP	02 14.41	-3.1	
IMA	4.30	350	iPd	02 18.00	-2.1	
TMW	4.39	66	eP	02 18.70	-2.4	
TGL	4.53	100	eP	02 20.92	-2.2	
			eS	03 12.96		
WAX	4.62	104	eP	02 21.77	-2.6	
BALM	4.68	96	eP	02 23.02	-2.1	
			eS	03 14.78		
WRG	5.16	106	eP	02 30.24	-1.4	
FYU	5.56	29	eP	02 34.76	-2.3	
DWY	6.11	63	P	02 42.70	-2.0	
SIT	9.71	112	eP	03 31.60	-1.7	
	0.3s	7.30nm			5.0mb	
INK	10.07	42	P	03 35.00	-3.1	
MBC	18.11	24	eP	05 18.00	-2.1	
	0.7s	3.00nm			3.7mb	
	65 obs. associated					

OCT 19, 1990 04h 12m 01.67±0.61s
 38.492 N ± 4.9km 26.923 E ± 6.6km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)
 MD 4.0 (ISK), 3.6 (ATH).

IZM	0.28	109	iPg	12 07.50	-0.1	
SMG	0.78	185	ePg	12 17.00	0.1	
PRK	0.91	326	iPbd	12 18.50	-0.5	
CIN	1.28	134	eP	12 24.00	-1.4	
EZN	1.41	341	iPn	12 26.90	-0.4	
APE	1.80	218	ePn	12 33.90	0.9	
KGT	1.98	8	iPn	12 34.60	-0.9	
EDC	1.99	21	iPn	12 34.80	-0.9	
BNT	2.02	22	iPn	12 35.50	-0.6	
KHL	2.05	94	ePn	12 37.00	0.3	
KCT	2.08	32	iPn	12 36.10	-0.9	
MFT	2.31	7	ePn	12 43.00	2.6	
ARG	2.47	157	ePb	12 48.20	5.7X	
IZI	2.70	46	ePn	12 46.00	0.0	
YLV	2.81	42	iPn	12 46.60	-0.9	
RDO	2.86	339	iPnd	12 47.50	-0.6	
CTT	2.89	23	ePn	12 49.60	1.0	
BCK	3.07	108	ePn	12 51.50	0.3	
HRT	3.15	41	ePn	12 55.00	2.8	
GPA	3.18	55	ePn	13 03.00	10.3X	
DMK	3.39	11	ePn	12 55.00	-0.6	
	S.D. = 1.2 on 19 of 21 obs.					

% OCT 19, 1990 05h 02m 36.67±0.71s

40.622 N ± 16.6km 15.161 E ± 17.8km
 DEPTH = 14.2 ± 6.8 km
 SOUTHERN ITALY (390)

SGO	0.13	120	Pc	02 40.10	-0.2	
			eSg	02 44.00		
BSS	0.32	302	Pc	02 44.00	0.5	
			eSg	02 50.40		
MGR	0.57	140	Pc	02 47.20	-0.7	
			eSg	02 57.90		
MMN	0.97	139	P	02 55.60	0.9	
			eSg	03 13.00		
DUI	1.17	333	P	02 58.00	-0.1	
			eSn	03 15.00		
CSI	1.21	134	P	03 00.20	1.4	
			eSg	03 22.20		
TDS	1.32	136	P	03 00.00	-0.6	
CZI	1.59	152	P	03 04.00	-0.4	
	S.D. = 1.0 on 8 of 8 obs.					

% OCT 19, 1990 05h 28m 11.60±0.93s
 40.644 N ± 6.5km 29.959 E ± 7.1km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.1 (ISK).

HRT	0.28	309	ePg	28 17.00	-0.6	
GBZT	0.42	290	ePg	28 20.00	-0.1	
			iSg	28 26.00		
GPA	0.44	143	ePg	28 20.30	-0.4	
YLV	0.45	260	iPg	28 20.00	-0.8	
IZI	0.48	231	iPg	28 21.60	0.2	
			iSg	28 30.60		
ISK	0.80	302	ePg	28 26.80	-0.4	
			eSg	28 37.80		
CTT	1.26	294	iPn	28 34.50	-0.6	
KCT	1.29	253	iPn	28 35.60	0.2	
BNT	1.58	260	iPn	28 40.00	0.3	
EDC	1.63	260	iPn	28 40.80	0.4	
KGT	2.03	265	iPn	28 46.60	0.3	
DMK	2.04	306	ePn	28 47.70	1.4	
	S.D. = 0.7 on 12 of 12 obs.					

* OCT 19, 1990 05h 43m 04.60±2.91s
 38.026 N ± 20.1km 29.586 E ± 22.1km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.3 (ISK).

KHL	0.30	351	iPg	43 09.50	-1.4	
ALT	1.11	22	iPn	43 25.40	0.0	
CIN	1.26	251	iPn	43 27.00	-1.0	
			iSg	43 46.00		
IZM	1.87	282	ePn	43 38.00	1.1	
IZI	2.31	358	ePn	43 44.00	0.6	
YLV	2.54	356	iPn	43 51.50	4.9X	
BNT	2.66	331	ePn	43 49.00	0.7	
	S.D. = 1.3 on 6 of 7 obs.					

% OCT 19, 1990 07h 01m 57.40s
 46.470 N 75.590 W
 DEPTH = 13.0km
 4.6mb (24 obs.) 4.2msz (1 obs.)
 SOUTHERN QUEBEC (447)

<OTT>. mblg 5.1 (OTT). Felt from
 Burlington, Ontario to Quebec
 City, Canada and from Buffalo to
 Albany, New York and Burlington,
 Vermont. Also felt at
 Waterville, Maine. Felt (V) at
 Malone and Tupper Lake, New
 York; (IV) at Massena and
 Ogdensburg, New York. Felt (III)
 in many areas of New York and
 Vermont.

GRO	0.23	306	Pg	02 02.40	-0.2	
TRQ	0.76	109	Pg	02 11.60	-0.4	
OTT	1.08	185	Pg	02 17.40	0.0	
MNT	1.68	124	Pg	02 26.50	0.0	
DPO	1.95	83	Pg	02 30.30	-0.2	
HBVT	2.76	139	iPc	02 41.50	-0.6	
BNH	3.58	120	eP	02 52.70	-1.0	
WVLY	4.53	209	eP	03 05.60	-1.6	
MIM	4.74	103	eP	03 08.30	-1.9	
CBM	5.16	82	eP	03 13.80	-2.3	
ELF	5.23	233	P	03 14.85	-2.2	

LDN	5.26	231	P	03 15.20	-2.3	
TXNY	5.39	169	eP	03 18.00	-1.3	
TBR	5.42	169	iPc	03 18.00	-1.8	
DLA	5.59	232	P	03 18.10	-4.1	
PNJ	5.66	169	iP	03 21.40	-1.7	
LVNJ	5.69	174	eP	03 21.50	-2.1	
EMM	5.94	104	eP	03 25.00	-2.1	
CLE	6.57	223	iP	03 35.10	-0.9	
NA2	8.49	192	eP	03 59.30	-3.5	
BLA	9.93	203	ePn	04 19.10	-3.6	
NAV	9.93	205	eP	04 19.20	-3.6	
SCH	10.05	31	P	04 19.00	-5.3	
TKL	12.43	213	eP	04 52.00	-4.8	
GBTN	12.59	214	eP	04 53.70	-5.2	
LHS	12.61	200	eP	04 55.00	-4.2	
JSC	12.92	201	eP	04 59.50	-3.7	
RSCP	13.20	218	eP	05 02.00	-5.1	
PRM	13.40	205	eP	05 05.20	-4.5	
ELC	13.67	233	eP	05 07.00	-6.2	
FVM	13.87	238	eP	05 10.50	-5.3	
TUL	18.45	242	eP	06 10.20	-4.1	
	1.0s	50.00nm			4.6mb	
Z	22s	0.23um			4.2Msz	
		e	06 11.80			
		eLg	11 18.50			
FFC	18.59	306	eP	06 11.00	-4.8	
	0.7s	13.00nm			4.2mb	
SIO	18.88	243	eP	06 17.70	-1.8	
MEO	20.92	244	iPd	06 39.30	-2.6	
GLD	22.56	263	eP	06 58.50	-0.1	
	1.0s	35.00nm			4.8mb	
GOL	22.69	263	ePc	06 59.00	-1.0	
	0.7s	19.42nm			4.7mb	
SES	23.70	293	P	07 09.00	-0.5	
BW06	24.34	274	ePc	07 15.00	-1.0	
	0.9s	14.12nm			4.6mb	
EDM	25.04	300	eP	07 21.00	-1.4	
LRM	25.40	282	ePc	07 25.70	-0.4	
ANMO	25.91	255	eP	07 31.00	0.1	
	1.0s	15.00nm			4.6mb	
ALO	25.92	255	eP	07 30.00	-1.0	
	0.8s	12.13nm			4.6mb	
YKA	27.20	320	eP	07 39.90	-2.3	
	0.9s	15.60nm			4.7mb	
DUG	27.61	270	eP	07 45.20	-1.1	
NEW	27.94	289	eP	07 47.50	-1.7	
PNT	29.35	292	P	08 00.00	-1.8	
TNP	31.62	270	eP	08 21.00	-1.2	
	0.7s	4.81nm			4.5mb	
LBFM	33.37	278	eP	08 36.20	-1.3	
MBC	34.80	343	eP	08 48.00	-1.2	
	1.0s	18.00nm			4.9mb	
INX	36.16	328	eP	08 59.00	-1.8	
	0.9s	44.00nm			5.3mb	
FBA	41.95	323	eP	09 50.70	1.8	
PMR	43.25	318	eP	09 58.90	-0.7	
	0.7s	13.08nm			4.8mb	
IMA	44.11	325	iPd	10 06.10	-0.6	
GRR	48.70	59	eP	10 41.20	-1.8	
NB2	49.45	40	P	10 46.20	-2.5	
	0.8s	2.80nm			4.3mb	
TCF	51.54	60	eP	11 02.40	-2.4	
	1.0s	8.00nm			4.6mb	
BGF	51.78	59	eP	11 04.20	-2.4	
	0.4s	2.85nm			4.6mb	
MAF	51.79	60	eP	11 04.20	-2.4	
SSF	51.92	59	eP	11 05.10	-2.5	
	0.8s	8.75nm			4.7mb	
AVF	51.96	59	eP	11 05.40	-2.5	
	0.5s	3.30nm			4.5mb	
LOR	52.02	58	eP	11 06.10	-2.3	
	1.0s	11.00nm			4.7mb	
Z	21s	0.22um			4.2Msz	
CAF	52.15	62	eP	11 06.90	-2.5	
	0.6s	4.50nm			4.6mb	
LBF	52.23	58	eP	11 07.40	-2.7	
	1.0s	9.00nm			4.7mb	
SMF	52.33	59	eP	11 07.80	-2.9	
CDF	53.41	55	eP	11 16.50	-2.3	
LPL	54.63	59	eP	11 26.10	-1.9	
	0.4s	2.30nm			4.6mb	
MOX	54.64	51	eP	11 26.00	-1.7	
LPG	54.65	59	eP	11 26.20	-2.1	
	0.5s	2.55nm			4.5mb	
BRG	55.76	50	eP	11 38.50	2.7	
	1.4s	15.00nm			4.8mb	
		iSg	22 35.00			

ZOBO 62.81 172 P 12 23.20 -2.3
 CNCB 63.35 172 eP 12 26.00 -3.1
 SOB1 63.50 141 eP 12 27.80 -1.7
 SIV 63.53 164 iPc 12 28.00 -1.6
 CCH 64.12 170 eP 12 32.00 -1.8
 TIC 71.85 100 P 13 20.60 -1.4
 LIC 72.15 100 P 13 22.20 -1.5
 KIC 72.25 100 Pc 13 23.00 -1.3
 0.7s 8.00nm 4.9mb
 WB5 143.89 307 ePKP 21 29.10 -5.0
 CAN 144.93 272 ePKP 21 37.80 2.3
 ASPA 147.15 304 iPKPc 21 39.50 0.0
 0.5s 20.60nm
 STK 148.03 284 iPKPd 21 41.70 1.1
 0.6s 10.00nm
 MAW 149.97 149 iPKP 21 46.10 3.6
 83 obs. associated

* OCT 19, 1990 07h 51m 00.19±0.97s
 15.535 N ± 9.8km 146.717 E ±17.9km
 DEPTH = 33.0km (normal)
 4.9mb (2 obs.)

MARIANA ISLANDS (216)

GUMO 2.64 223 eP 51 41.40 0.0
 PJG 2.64 223 eP 51 41.30 -0.1
 GUA 2.65 222 eP 51 41.50 0.0
 0.5s 52.00.70
 LZH 43.26 306 Pd 59 04.50 4.0X
 GUN 57.34 293 P 00 48.40 0.2
 PKI 57.77 293 P 00 51.20 0.0
 KKN 57.88 293 P 00 51.80 0.0
 DMN 58.04 293 P 00 53.20 0.2
 GKN 58.44 294 P 00 55.20 -0.5
 0.6s 16.00nm 5.3mb
 YKA 80.32 28 eP 03 18.20 9.0X
 0.6s 2.90nm 4.5mb
 SES 85.77 39 eP 03 47.00 9.5X
 KIC 144.33 305 PKP 10 35.30 -0.3
 TIC 144.37 306 PKP 10 35.60 -0.1
 LIC 144.63 306 PKP 10 36.40 0.3
 ZOBO 146.51 96 PKP 10 48.00 8.1X
 LPB 146.55 97 ePKP 10 48.00 8.3X
 CNCB 146.68 97 PKP 10 49.00 8.9X
 S.D. = 0.2 on 11 of 17 obs.

* OCT 19, 1990 08h 12m 38.54±1.11s
 21.777 S ±11.4km 178.768 W ±21.1km
 DEPTH = 648.8 ± 12.2 km
 4.6mb (2 obs.)

FIJI ISLANDS REGION (181)

SGE 5.20 323 iPc 14 16.50 0.1
 MBU 5.33 333 eP 14 17.00 -0.4
 DZM 13.73 266 iPc 15 34.90 1.0
 WLZ 16.74 196 P 16 04.50 2.5
 NOZ 17.01 189 eP 16 05.50 0.9
 MNG 19.41 193 eP 16 25.10 -1.5
 THZ 21.13 197 P 16 42.30 0.1
 KHZ 21.57 196 Pd 16 45.00 -1.1
 LTZ 22.25 198 Pd 16 50.70 -1.6
 ASPA 43.54 258 iPd 19 49.40 -0.2
 0.8s 15.00nm 4.5mb
 WB5 43.71 264 eP 19 50.80 -0.2
 MTN 48.47 272 eP 20 25.00 -2.0
 MBL 56.79 258 eP 21 26.40 0.5
 NANU 60.38 256 eP 21 51.00 1.3
 SPA 68.36 180 iPc 22 44.60 5.6X
 0.8s 25.42nm 4.7mb
 CHG 90.00 290 eP 24 38.80 6.5X
 SOB1 128.46 122 (PKP) 30 43.00 7.3X
 NB2 140.15 352 PKP 30 56.40 0.1
 0.6s 0.90nm
 HFS 140.67 350 ePKP 30 57.60 0.4
 1.2s 13.60nm
 CLL 149.12 346 iPKP 31 23.80 12.5X
 BRG 149.30 344 i(PKP) 31 24.40 12.8X
 i 31 31.40
 S.D. = 1.3 on 16 of 21 obs.

? OCT 19, 1990 09h 26m 00.17±4.71s
 14.315 N ±42.5km 97.962 W ±23.7km
 DEPTH = 33.0km (normal)
 OFF COAST OF OAXACA, MEXICO (67)
 Felt in Oaxaca State.

OXX 3.00 23 eP 26 46.68 0.0
 eS 27 09.78
 III 4.29 341 iP 27 05.00 0.0
 iS 27 43.24
 IIT 4.69 356 eP 27 10.75 0.0
 eS 27 52.74
 PPM 4.77 352 eP 27 08.73 -3.3X
 IJJ 5.65 343 (P) 27 28.39 3.9X
 (S) 28 26.23
 ALQ 21.92 341 eP 30 52.50 -0.2
 ANMO 21.92 341 (P) 30 53.00 0.2
 S.D. = 0.2 on 5 of 7 obs.

* OCT 19, 1990 09h 28m 01.18±1.97s
 14.334 N ±20.1km 92.639 W ±17.1km
 DEPTH = 65.2 ± 12.8 km
 4.7mb (5 obs.)

NEAR COAST OF CHIAPAS, MEXICO (69)
 Felt in the Mexico-Guatemala border area.

TPX 0.68 33 iPc 28 14.61 -1.0
 iS 28 28.91
 SCX 2.39 0 iP 28 41.48 2.8
 iS 29 08.48
 OXX 4.79 305 (P) 29 43.65 30.9X
 eS 30 11.01
 LVVM 6.49 326 eP 29 33.47 -2.8
 IIT 7.16 311 eP 29 52.03 6.2X
 (S) 31 17.16
 PPM 7.42 310 eP 29 51.11 1.4
 MEO 21.06 346 iPd 32 40.20 -1.8
 SIO 21.57 352 e(P) 32 46.70 -0.4
 TUL 21.67 353 e(P) 32 51.80 3.7X
 0.7s 11.70nm 4.4mb
 ALQ 24.01 331 eP 33 11.80 0.7
 0.9s 5.88nm 4.1mb
 ANMO 24.01 331 P 33 12.00 0.9
 LRM 35.56 336 ePc 34 54.90 0.6
 SES 38.95 341 eP 35 23.00 0.5
 PNT 41.30 333 ePd 35 43.00 1.2
 0.7s 15.00nm 4.9mb
 SIV 43.37 133 P 35 59.00 -0.1
 YKA 50.56 347 eP 36 53.80 -1.1
 0.7s 12.40nm 5.0mb
 SOB1 56.40 111 eP 37 38.10 -0.6
 e 37 47.80
 INK 59.94 344 eP 38 02.00 -0.6
 FBA 62.69 337 P 38 20.00 -1.2
 MBC 63.51 353 eP 38 26.00 -0.4
 0.6s 6.00nm 4.8mb
 LKO 84.85 82 P 40 30.90 0.3
 LIC 86.18 85 (P) 40 38.00 0.8
 KIC 86.42 84 (P) 40 39.10 0.7
 S.D. = 1.4 on 20 of 23 obs.

* OCT 19, 1990 10h 24m 11.17±1.10s
 30.284 S ± 7.7km 69.354 W ±22.1km
 DEPTH = 130.0km (geophysicist)

CHILE-ARGENTINA BORDER REGION (127)

RTCB 1.29 158 iPd 24 37.00 -0.4
 eS 24 51.00
 RTLL 1.29 144 iPc 24 36.00 -1.4
 RTBS 1.38 184 e(P) 24 40.00 1.8
 ZON 1.39 155 iPd 24 38.60 0.2
 eS 24 54.60
 RTCV 1.72 156 e(P) 24 41.50 -0.7
 eS 24 59.00
 CYA 3.61 60 e(P) 25 07.80 1.3
 S 25 47.00
 CNCB 13.47 6 eP 27 19.00 0.2
 LPB 13.74 5 eP 27 21.00 -1.0
 ZOBO 14.00 5 (P) 27 37.00 11.5X
 S.D. = 1.3 on 8 of 9 obs.

% OCT 19, 1990 10h 25m 15.98±1.03s
 39.147 N ± 7.0km 27.569 E ±13.6km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.5 (ISK).

Izm 0.79 198 iPg 25 31.30 0.0
 eSg 25 44.80
 EZN 1.18 306 ePn 25 38.00 0.1
 EDC 1.22 11 iPn 25 38.00 0.1
 BNT 1.24 13 ePn 25 39.00 0.0

MFT 1.65 352 ePn 25 45.00 -0.2
 S.D. = 0.2 on 5 of 5 obs.
 ? OCT 19, 1990 11h 12m 52.78±8.40s
 35.194 N ±127.7km 24.321 E ±50.9km
 DEPTH = 33.0km (normal)
 3.8mb (1 obs.)
 CRETE (370)
 MD 3.7 (ATH).

VAM 0.23 335 ePb 12 58.40 -1.3
 NPS 1.06 86 ePn 13 11.30 -0.1
 VLI 1.89 324 ePn 13 23.70 0.4
 KAP 2.36 80 ePn 13 29.50 -0.5
 ITM 2.77 316 ePn 13 35.30 -0.5
 HFS 25.89 348 eP 18 18.70 -4.4X
 0.4s 1.20nm 3.8mb
 S.D. = 0.9 on 5 of 6 obs.

? OCT 19, 1990 11h 13m 40.68±1.80s
 28.441 N ±18.7km 139.635 E ±56.1km
 DEPTH = 414.2 ± 18.8 km
 4.1mb (2 obs.)

BONIN ISLANDS REGION (212)

IIDJ 7.17 349 P 15 28.80 1.4
 CHJJ 7.60 356 iP+ 15 31.90 -0.3
 S 16 57.90
 KAKJ 7.76 3 P 15 32.60 -1.3
 S 16 58.00
 MAT 8.17 352 eP 15 38.00 -0.6
 eS 17 12.00
 YAMJ 9.71 2 P 15 57.20 0.8
 S 17 47.40
 OFUJ 10.75 9 eP 16 08.30 0.1
 eS 18 05.00
 WB5 48.31 187 eP 21 44.30 0.2
 HFS 81.29 336 eP 25 13.70 0.9
 0.4s 1.70nm 4.1mb
 NB2 81.52 337 P 25 15.00 0.9
 0.9s 3.30nm 4.0mb
 VAY 89.44 318 eP 25 51.00 -1.9
 i 26 07.60
 S.D. = 1.3 on 10 of 10 obs.

* OCT 19, 1990 12h 28m 17.50s
 37.018 N 118.368 W
 DEPTH = 3.0km
 CALIFORNIA-NEVADA BORDER REGION (40)
 <BRK>. ML 3.3 (BRK).

PPK 0.54 41 iPc 20 27.40 -1.0
 FRI 1.08 269 iPc 20 37.40 -1.0
 iS 28 51.30
 CLC 1.35 153 eP 28 41.40 -1.7
 ISA 1.36 184 iPd 28 41.80 -1.4
 TNP 1.40 40 iPc 28 42.60 -1.4
 PKEM 1.70 236 eP 28 48.00 -0.2
 CMB 1.90 303 iPc 28 51.60 0.4
 iS 29 15.90
 PHAM 2.02 235 eP 28 52.70 -0.2
 PRI 2.05 245 ePd 28 54.00 0.6
 LLA 2.11 260 ePd 28 54.80 0.6
 eS 29 21.90
 ABL 2.27 198 eP 28 57.00 0.3
 BCH 2.30 218 eP 28 57.00 0.0
 SAO 2.49 265 iPc 29 00.00 0.4
 PRS 2.51 255 ePc 28 59.90 -0.1
 ARN 2.56 278 eP 29 01.40 0.8
 MHC 2.64 278 ePd 29 02.60 0.7
 e 29 38.90
 GCC 2.91 271 e(P) 29 06.40 0.8
 PCC 3.24 280 e(P) 29 09.90 -0.4
 18 obs. associated

% OCT 19, 1990 12h 29m 57.96±0.94s
 41.171 N ±11.0km 28.519 E ± 7.0km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.3 (ISK).

CTT 0.07 251 iPg 29 58.90 -1.4
 ISK 0.42 104 ePg 30 06.20 -0.4
 DMK 0.87 319 ePg 30 15.20 0.6
 eSg 30 28.20
 BNT 0.93 209 iPn 30 16.80 1.0
 HRT 0.94 111 ePg 30 16.00 0.1

19d 12h

S.D. = 1.4 on 5 of 5 obs.

* OCT 19, 1990 13h 21m 28.89±0.94s
 30.220 S ±12.0km 177.699 W ±21.0km
 DEPTH = 40.7km (2 depth phases)
 4.9mb (4 obs.) 4.5msz (1 obs.)
 KERMADEC ISLANDS (178)
 Felt on Rook Island.

RAO	0.98	349 P	21 45.00	-1.4
		S	21 58.50	
THZ	13.79	211 eP	24 44.00	0.0
KHZ	14.06	208 eP	24 45.00	-2.4
BWA	28.86	253 eP	27 27.80	2.0
CTA	34.03	279 iPd	28 15.00	3.7X
	0.9s	15.97nm		4.9mb
STK	34.77	257 eP	28 21.10	3.5X
	1.0s	13.00nm		4.8mb
		i	28 32.10	40km
ASPA	43.38	267 eP	29 28.60	-0.7
	0.8s	7.70nm		4.5mb
	Z	18s	0.50um	4.5msz
WB5	44.35	272 eP	29 38.10	0.9
SPA	59.95	180 eP	31 34.00	0.7
	0.9s	10.91nm		5.0mb
MAT	78.24	325 (P)	33 29.00	3.1X
TNP	88.34	43 P	34 18.20	0.4
		pP	34 31.10	43km
KEV	138.00	347 ePKP	40 51.00	0.9
SUF	144.02	342 ePKP	40 59.00	-1.9
NUR	146.23	340 ePKP	41 06.00	1.3
	0.8s	55.70nm		
		i	41 12.60	
NB2	148.61	352 PKP	41 11.80	3.2X
	1.0s	15.60nm		
HFS	149.12	349 ePKP	41 12.50	3.2X
	0.8s	16.10nm		

S.D. = 1.6 on 11 of 16 obs.

* OCT 19, 1990 14h 12m 01.45s
 60.316 N 152.331 W
 DEPTH = 75.9km
 SOUTHERN ALASKA (2)
 <AGS-P>.

RED	0.24	295 iP	12 12.71	-0.5
RSO	0.26	305 iP	12 13.04	-0.4
RDT	0.26	352 iP	12 12.68	-0.6
		iS	12 22.20	
NNL	0.59	118 eP	12 16.04	0.2
NKA	0.69	51 eP	12 17.81	1.0
HOM	0.74	152 eP	12 17.12	-0.4
		eS	12 29.79	
OPT	0.80	215 iP	12 17.57	-0.6
		eS	12 30.13	
CKL	0.88	360 iP	12 18.43	-0.8
BRLK	0.91	127 iP	12 18.71	-0.8
XLV	0.92	160 eP	12 18.59	-0.9
		eS	12 32.64	
BGL	0.95	358 iP	12 19.33	-0.7
CRP	0.96	5 iP	12 19.49	-0.7
		eS	12 33.53	
CNPM	0.97	145 eP	12 19.20	-0.9
PDB	1.07	241 iP	12 20.26	-1.2
		iS	12 35.34	
AUH	1.11	211 eP	12 21.56	-0.4
SUA	1.39	33 iP	12 25.32	-0.3
SEW	1.45	97 iP	12 24.63	-1.7
MCNL	1.52	223 eP	12 25.96	-1.4
CDD	1.54	206 eP	12 26.35	-1.3
PMS	1.65	54 iP	12 28.46	-0.6
SKT	1.71	13 eP	12 28.90	-1.0
PWA	1.80	41 eP	12 30.41	-0.6
SVW	1.80	298 iPc	12 29.30	-1.8
PLRM	2.02	49 eP	12 32.11	-1.9
PMR	2.02	49 iPd	12 32.40	-1.6
GHO	2.21	47 eP	12 34.86	-1.9
KNIM	2.29	87 eP	12 34.14	-3.6
CUT	2.32	24 eP	12 37.02	-1.1
SML	2.45	51 eP	12 38.00	-2.1
VLZ	3.06	72 eP	12 45.16	-3.2
TTA	3.16	328 iPd	12 48.10	-1.8
KLU	3.35	67 eP	12 49.27	-3.3
TOA	3.48	56 eP	12 51.90	-2.5
FBA	5.05	23 ePd	13 14.00	-2.3
IMA	5.81	355 eP	13 25.90	-1.1

35 obs. associated

& OCT 19, 1990 14h 13m 19.50s
 37.020 N 118.353 W
 DEPTH = 3.0km
 CALIFORNIA-NEVADA BORDER REGION (40)
 <BRK>. ML 3.3 (BRK).

FRI	1.09	269 iPc	13 39.50	-1.0
		iS	13 53.30	
ISA	1.36	184 eP	13 43.80	-1.5
CMB	1.91	303 iPc	13 53.70	0.4
		iS	14 18.70	
PRI	2.06	245 eP	13 55.50	0.0
LLA	2.12	260 eP	13 56.90	0.6
SAO	2.49	265 iP	14 01.80	0.2
PRS	2.52	255 eP	14 01.80	-0.3
MHC	2.65	278 eP	14 04.70	0.8
BRK	3.22	286 eP	14 12.40	0.4
PCC	3.25	280 e(P)	14 11.50	-0.9
ORV	3.54	317 e(P)	14 19.70	3.2

11 obs. associated

& OCT 19, 1990 14h 13m 58.16s
 45.341 N 121.686 W
 DEPTH = 6.0km
 WASHINGTON-OREGON BORDER REGION (28)
 <SEA>. CL 3.5 (SEA). Felt at
 Government Camp and Timberline
 Lodge, Oregon.

TDH	0.09	235 Pc	14 00.44	0.0
VLL	0.12	2 Pd	14 01.20	0.3
VFP	0.16	98 Pc	14 01.60	0.0
VBEM	0.29	166 Pd	14 04.43	0.3
VLM	0.32	309 Pc	14 04.93	0.3
APM	0.40	1 Pd	14 06.20	0.1
GT2	0.45	246 Pc	14 07.09	-0.2
PGO	0.55	283 Pc	14 08.94	-0.3
GULW	0.59	6 Pd	14 09.43	-0.5
CROR	0.61	126 Pc	14 09.64	-0.8
VGB	0.66	74 Pc	14 10.80	-0.7
		S	14 20.56	
MTMW	0.78	332 Pc	14 12.42	-1.3
VTHM	0.81	101 Pc	14 13.07	-1.2
		S	14 25.02	
ASR	0.81	5 Pd	14 13.40	-1.0
CDFW	0.82	342 Pc	14 13.18	-1.2
GL2	0.87	44 Pc	14 14.71	-0.5
		S	14 27.94	
JLK	0.87	338 Pd	14 14.33	-1.0
LVP	0.89	325 Pc	14 14.14	-1.5
HSR	0.90	337 P	14 15.02	-0.9
ESD	0.92	339 P	14 15.20	-1.0
REMW	0.93	338 ePd	14 15.34	-1.0
SHW	0.93	336 Pc	14 15.30	-1.2
SOSW	0.95	341 Pc	14 15.76	-0.9
STD	0.97	337 Pc	14 15.81	-1.3
FL2	0.97	332 P	14 15.89	-1.2
GMO	1.04	150 ePd	14 17.39	-0.9
ERK	1.07	335 Pc	14 17.32	-1.4
TDL	1.08	340 Pc	14 17.54	-1.3
RVW	1.10	318 Pc	14 17.69	-1.4
VIPM	1.13	137 P	14 18.57	-1.2
KOSW	1.17	343 P	14 19.16	-1.3
GLK	1.22	3 P	14 20.70	-0.7
CZM	1.24	333 Pc	14 20.23	-1.3
KMOR	1.30	284 Pc	14 21.50	-1.2
JBO	1.31	84 Pc	14 22.04	-0.7
WPW	1.36	4 P	14 23.68	-0.1
COR	1.37	237 Pd	14 22.70	-1.1
		S	14 41.76	
GROR	1.39	271 P	14 21.55	-2.7
LMW	1.39	343 P	14 23.93	-0.3
LON	1.41	357 P	14 23.39	-1.1
YAKW	1.43	34 P	14 24.51	-0.2
NLO	1.44	302 Pc	14 24.20	-0.7
		S	14 43.40	
PATW	1.45	68 P	14 24.78	-0.2
APW	1.47	333 Pc	14 24.39	-0.9
REMR	1.48	356 P	14 24.70	-0.8
NAC	1.52	23 P	14 25.92	0.0
BMW	1.56	317 Pc	14 25.58	-1.0
HBO	1.56	197 ePd	14 26.28	-0.4
MPOR	1.57	238 Pd	14 25.88	-0.8
MXC	1.57	38 P	14 26.55	-0.1
FMW	1.59	0 P	14 26.77	-0.3
RVC	1.61	353 P	14 26.96	-0.4

BRVW	1.65	45 P	14 28.31	0.5
		S	14 51.13	
PRW	1.65	57 P	14 27.79	0.0
GHW	1.75	347 ePd	14 29.63	0.4
EBG	1.75	26 Pc	14 29.56	0.3
RSW	1.80	54 Pc	14 30.03	-0.1
MDW	1.85	46 Pc	14 30.83	0.2
GSM	1.86	358 Pc	14 31.73	0.7
CPW	1.92	329 P	14 31.42	-0.3
BVW	1.93	40 P	14 32.14	0.2
TBM	1.98	22 P	14 33.03	0.4
GBL	2.00	50 P	14 32.91	0.1
WIW	2.00	56 P	14 32.96	0.2
VTG	2.00	36 P	14 32.86	0.0
MJ2	2.03	52 P	14 33.31	0.1
WAH2	2.05	45 P	14 33.83	0.3
LOCW	2.09	48 P	14 34.50	0.4
WG3	2.10	70 P	14 33.39	-0.9
RMW	2.12	358 P	14 36.16	1.5
		S	15 01.97	
CRF	2.18	46 Pc	14 35.54	0.1
OT2	2.20	50 P	14 35.80	0.1
RC1	2.24	44 P	14 36.31	-0.1
SPW	2.25	350 P	14 38.65	2.3
ET3	2.28	56 P	14 36.72	-0.2
GMW	2.33	341 P	14 38.57	0.9
LNOR	2.45	76 P	14 37.92	-1.4
		S	15 08.70	
HTW	2.46	359 P	14 41.96	2.4
DBO	2.49	207 P	14 40.88	1.0
HDW	2.49	338 P	14 41.25	1.2
		S	15 16.28	
OBH	2.49	324 P	14 40.70	0.8
BLH	2.51	355 P	14 40.51	0.4
SAW	2.84	33 P	14 44.40	-0.5
DHW2	2.96	26 Pc	14 47.34	0.8
		S	15 32.11	
CMW	3.10	355 P	14 52.10	3.5
		S	15 32.39	
DPW	3.49	42 Pd	14 53.04	-1.1
PNT	4.22	19 P	15 08.00	3.6

87 obs. associated

& OCT 19, 1990 14h 19m 20.20s
 37.007 N 118.350 W
 DEPTH = 3.0km
 CALIFORNIA-NEVADA BORDER REGION (40)
 <BRK>. ML 3.2 (BRK), 3.0 (PAS).

FRI	1.09	270 iPc	19 40.30	-1.0
		iS	19 54.00	
ISA	1.34	184 ePd	19 44.60	-1.1
CMB	1.92	303 iPc	19 54.50	0.4
		iS	20 19.70	
PRI	2.05	246 eP	19 56.40	0.2
LLA	2.12	260 eP	19 57.80	0.8
SAO	2.49	265 iP	20 02.50	0.1
PRS	2.52	255 eP	20 02.60	-0.1
MHC	2.65	278 eP	20 05.40	0.7
GCC	2.92	272 e(P)	20 09.30	0.9
BRK	3.23	287 eP	20 11.80	-1.0
PCC	3.25	280 e(P)	20 13.00	-0.1

11 obs. associated

? OCT 19, 1990 14h 43m 41.68±16.19s
 40.116 N ±70.6km 29.552 E ±92.4km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.4 (ISK).

IZI	0.23	345 iPg	43 46.40	-0.2
		iSg	43 49.40	
YLV	0.47	343 iPg	43 50.80	-0.5
BNT	1.27	281 iPn		

BKM	12.04	300	iPd	06 27.80	0.8	KAS	146.45	309	ePKP	22 28.50	1.8	ATN	1.20	231	P	00 23.00	0.1		
HBZ	13.48	183	eP	06 41.00	-0.5	ADI	147.22	294	iPKPd	22 30.40	2.2	MGR	1.49	326	P	00 27.50	0.4		
PUZ	13.95	183	eP	06 45.80	-0.5	JVI	147.22	292	iPKPd	22 30.90	2.8X				eSg	00 37.50			
WLZ	14.04	192	eP	06 49.70	2.6	RMN	147.93	289	iPKPd	22 32.40	3.0X				eSn	00 46.60			
NOZ	14.51	184	P	06 52.60	0.8	EKA	148.75	3	PKPc	22 33.50	3.7X				S.D. = 1.1	on 7 of 8 obs.			
			eS	09 21.90		MLR	149.59	321	ePKP	22 36.00	4.4X	? OCT 19, 1990	17h	30m	21.93±15.16s				
CNZ	15.36	191	eP	07 01.80	1.4	KSP	150.19	338	iPKPd	22 38.20	6.1X	39.111 N ±94.1km	16.432 E ±50.0km						
PGZ	16.65	188	eP	07 12.50	-0.3	CLL	150.81	342	iPKP	22 38.70	5.7X	DEPTH = 10.0km	(geophysicist)						
	0.4s	30.00nm		5.2mb			0.9s	42.00nm						SOUTHERN ITALY	(390)				
MNG	16.76	190	eP	07 11.70	-2.2	BRG	150.92	341	iPKPd	22 39.50	6.3X			CZI	0.26	295	P	30 27.40	0.1
	0.2s	8.00nm		5.0mb				i	22 49.60				ROI	0.47	13	P	30 31.60	0.1	
		eS	10 01.70			PRU	151.50	339	PKP	22 40.80	6.7X		TDS	0.55	352	P	30 33.20	0.1	
KIW	17.09	191	P	07 17.10	0.0			e	22 52.00						eSg	30 47.60			
MTW	17.29	189	eP	07 17.90	-1.1	WTS	151.54	350	ePKP	22 41.00	7.0X			CSI	0.67	351	P	30 35.20	-0.1
CAW	17.31	190	P	07 19.20	0.0		0.8s	23.00nm						MMN	0.85	336	P	30 38.20	-0.1
WDW	17.47	191	P	07 20.40	-0.4	KHC	152.56	339	ePKP	22 43.30	7.6X					S.D. = 0.1	on 5 of 5 obs.		
MRW	17.49	191	P	07 21.10	0.2	ENN	152.86	351	ePKP	22 52.00	16.0X	% OCT 19, 1990	17h	30m	58.21±2.91s				
		eS	10 14.10				0.9s	15.00nm				38.868 N ±15.9km	16.458 E ±32.7km						
WEL	17.53	191	P	07 21.50	0.2	BCAO	152.97	227	iPKPd	22 45.00	7.7X	DEPTH = 25.2 ± 11.5 km							
		S	10 18.00				0.5s	5.00nm						SOUTHERN ITALY	(390)				
TCW	17.55	192	eP	07 21.60	0.1	? OCT 19, 1990	16h	41m	24.03±2.04s					ROI	0.71	7	P	31 11.70	-0.2
		eS	10 16.00			3.429 S ±11.0km	136.143 E ±41.5km						TDS	0.80	353	P	31 13.40	0.1	
MOW	17.58	190	eP	07 22.40	0.5	DEPTH = 33.0km	(normal)									eSg	31 28.80		
THZ	18.37	195	P	07 30.20	0.6	5.0mb (1 obs.)								CSI	0.92	352	P	31 15.70	0.3
		S	10 27.60			WEST IRIAN								ATN	1.05	228	P	31 17.40	0.0
KHZ	18.86	193	P	07 33.80	-0.3											eSg	31 34.50		
	0.3s	36.00nm		5.5mb		MTN	10.59	208	eP	43 55.40	-1.2			MMN	1.08	341	P	31 17.80	0.1
LTZ	19.49	195	P	07 39.70	-0.4			eS	45 44.00							eSg	31 33.20		
MOZ	20.28	194	P	07 47.20	-0.1	WB5	16.44	186	eP	45 13.00	-1.0			ORI	1.19	360	P	31 19.50	0.2
MMCZ	22.40	199	P	08 05.90	-0.9			eS	48 04.90					MGR	1.45	331	P	31 22.60	-0.3
MMHZ	22.41	199	P	08 05.70	-1.2	OIS	17.36	169	eP	45 34.00	8.5X					eSn	31 45.10		
HNR	23.43	305	eP	08 14.00	-2.2			eS	48 36.00					SGO	1.91	333	P	31 30.00	0.4
CMS	30.31	248	iPc	09 17.90	1.5	ASPA	20.24	186	eP	46 00.40	1.0					S.D. = 0.3	on 8 of 8 obs.		
CTA	30.71	271	iPd	09 20.70	0.8		0.6s	44.70nm		5.0mb		* OCT 19, 1990	17h	42m	10.80±0.64s				
	0.4s	128.81nm		5.9mb				iS	49 36.00			20.338 S ±13.6km	168.410 E ±15.7km						
TPT	32.53	80	iP	09 34.40	-0.8	MBL	23.71	221	eP	46 35.90	1.9	DEPTH = 33.0km	(normal)						
	1.0s	55.00nm		5.1mb		GUN	57.52	306	P	51 13.20	-0.1	5.1mb (3 obs.)				LOYALTY ISLANDS	(188)		
PMG	33.84	290	iPd	09 45.70	-0.6	PKI	57.76	306	P	51 14.60	-0.3			DZM	2.52	226	iPc	42 49.20	-1.2
	0.8s	231.34nm		5.8mb		KKN	57.95	306	P	51 15.90	-0.3					iS	43 21.10		
OIS	36.68	268	iPd	10 10.00	0.3	DMN	58.02	306	P	51 16.60	-0.1			PVC	2.59	358	iP	42 56.80	5.6X
ASPA	41.25	261	iPd	10 46.90	0.1	GKN	58.56	306	P	51 20.40	0.1			BKM	2.66	357	iP	42 51.40	-0.9
	0.7s	54.60nm		5.2mb				S.D. = 1.1	on 9 of 10 obs.							iS	43 02.50		
WB5	41.61	267	iPd	10 49.00	-0.8	? OCT 19, 1990	16h	57m	36.79±2.19s					CTA	20.79	267	iPd	46 59.20	7.4X
		eS	16 25.90			29.924 S ±28.4km	68.463 W ±30.8km									25.32nm	4.5mb		
MTN	46.70	275	eP	11 28.00	-1.4	DEPTH = 110.0km	(geophysicist)							BWA	22.57	227	eP	47 09.70	0.1
	0.4s	84.00nm		5.6mb		SAN JUAN PROVINCE, ARGENTINA	(137)									e	47 21.20		
GUA	50.19	315	eP	11 53.80	-1.6	RTLL	1.40	180	ePd	58 01.00	-1.8			CAN	22.69	225	e(P)	47 15.00	4.2X
	0.8s	119.40nm		5.4mb				eS	58 22.50							e	47 23.90		
GUMO	50.25	315	eP	11 54.30	-1.5	RTCB	1.58	190	ePc	58 03.80	-1.3			WB5	31.94	265	eP	48 36.00	0.1
	0.3s	74.65nm		5.7mb		ZON	1.63	186	eP	58 07.30	1.7			ASPA	32.12	258	iPd	48 37.00	-0.5
PJG	50.25	315	eP	11 54.20	-1.6	RTBS	1.93	206	ePc	58 08.10	-1.2				0.5s	13.90nm		5.1mb	
MBL	54.49	260	eP	12 24.70	-1.6			eS	58 34.00					Z	19s	0.50um		4.2Msz	
	0.3s	10.00nm		4.6mb		RTCv	1.93	182	eP	58 10.10	0.7			MTN	36.43	276	eP	49 15.00	0.4
MRWA	56.09	250	eP	12 36.70	-0.7			S	58 38.10						0.5s	61.00nm		5.8mb	
	0.4s	6.00nm		4.3mb		CYA	2.76	58	e(P)	58 20.50	0.2			CHG	78.40	295	eP	54 29.00	18.8X
NANU	57.99	258	iPd	12 50.10	-0.3	MDZ	2.97	186	eP	58 27.90	4.7X			CHTO	78.40	295	(P)	54 11.00	0.8
	0.4s	38.00nm		5.1mb				e	59 10.50					TNP	90.73	49	(P)	55 10.00	-2.0
TRT	65.49	272	ePd	13 38.80	-0.4	PEL	3.73	210	eP	58 34.50	1.1			PKI	93.30	298	P	55 24.20	-0.1
MAT	71.63	326	iPd	14 14.40	-1.2			i	58 38.50					KKN	93.48	298	P	55 25.00	0.0
	0.9s	24.37nm		4.7mb		FCH	3.73	204	eP	58 36.00	2.2			DMN	93.56	298	P	55 25.80	0.4
NJ2	80.21	312	Pd	15 03.00	0.4	TACH	4.27	209	eP	58 41.50	0.7			VAY	144.31	314	ePKP	01 42.00	-3.2X
MDJ	82.00	327	eP	15 11.50	0.0	LNV	4.74	211	eP	58 45.00	-2.1			MOX	144.64	334	ePKP	01 44.00	-1.5
WHN	82.51	308	eP	15 15.00	0.6			i	59 42.00					SKO	144.77	315	ePKP	01 43.50	-2.5
SNY	83.32	322	eP	15 18.00	-0.1									KHC	144.92	331	ePKP	01 46.90	0.8
CN2	83.59	324	iPd	15 19.60	0.1									WTS	145.30	340	ePKP	01 45.50	-1.0
	1.0s	60.00nm		5.1mb		? OCT 19, 1990	17h	00m	02.43±2.67s					GRF	145.54	334	e(PKP)	01 47.00	-0.1
TIA	83.81	314	Pd	15 21.10	0.3	38.915 N ±13.1km	16.649 E ±27.8km							OHR	145.60	314	ePKP	01 42.30	-5.3X
BJI	86.64	317	eP	15 34.50	0.2	DEPTH = 33.0km	(normal)							ENN	146.64	340	iPKP	01 50.80	2.0
	1.0s	18.00nm		4.8mb		SOUTHERN ITALY	(390)								0.6s	7.00nm			
TIY	87.76	313	Pd	15 40.80	1.0									BCAO	146.70	246	iPKPc	01 50.50	0.4
	1.0s	100.00nm		5.6mb		CZI	0.50	307	P	00 11.90	-1.2				0.4s	4.00nm			
XAN	88.26	309	Pc	15 43.20	1.0	ROI	0.66	355	P	00 14.10	-1.2			CDF	148.13	336	ePKP	01 51.50	0.0
CHG	89.03	291	ePd	15 47.20	1.3	TDS	0.78	342	P	00 16.90	-0.1				0.7s	4.40nm			
	1.0s	11.25nm		4.7mb				eSg	00 30.30					BSF	148.80	336	ePKP	01 53.10	0.5
CD2	90.55	304	P	15 53.80	1.0										0.7s	4.40nm			
	0.8s	20.00nm		5.1mb		CSI	0.90	342	P	00 19.70	0.9			FLN	150.27	345	ePKP	01 56.20	1.6
LZH	92.89	308	Pd	16 04.30	0.7	MMN	1.10	333	P	00 22.40	0.9			LDF	150.34	345	ePKP	01 56.20	1.5
	1.5s	23.00nm		5.1mb				eSg	00 38.40					LPL	150.70	333	ePKP	01 58.80	3.1X
SOB1	128.76	125	ePKP	21 55.10	-0.3	ORI	1.16	352	P	00 26.00	3.6X			LPG	150.70	333	ePKP	01 58.40	2.6
NB2	142.15	350	PKP	22 13.90	-5.0X														
	0.8s	6.60nm																	
HFS	142.58	348	ePKP	22 13.70	-5.9X														
	0.4s	33.90nm																	

19d 18h

0.7s 4.40nm
GRR 150.71 345 ePKP 01 56.60 1.3
0.7s 6.60nm
LPF 151.08 345 ePKP 01 58.30 2.5X
0.7s 6.60nm
S.D. = 1.2 on 23 of 32 obs.

OCT 19, 1990 18h 48m 55.38 ± 0.39s
10.856 N ± 6.4km 125.973 E ± 9.3km
DEPTH = 33.0km (normal)
4.8mb (4 obs.)

LEYTE, PHILIPPINE ISLANDS (256)

GUMO 18.66 80 eP 53 13.00 0.0
SSE 20.62 348 eP 53 35.50 0.9
eS 57 22.00
WHN 22.37 333 eP 53 54.50 2.3
S 58 00.00
MTN 24.10 168 eP 54 10.20 1.1
0.5s 58.00nm 5.4mb
TIA 26.48 344 eP 54 31.00 -0.5
CHTO 27.27 290 (P) 54 40.20 1.3
XAN 27.86 329 P 54 43.70 -0.4
TIY 29.38 338 eP 54 57.20 -0.6

Z 12s 0.60um 4.4mszx
BJI 30.34 345 eP 55 07.50 1.3
SNY 30.92 357 eP 55 10.00 -1.3
WB5 31.64 165 eP 55 16.00 -1.9
LZH 32.13 325 P 55 41.50 19.2X
Z 16s 0.30um 4.1mszx
QIS 33.97 157 eP 55 37.00 -1.2
ASPA 35.18 167 eP 55 49.50 1.0

0.3s 7.70nm 5.1mb
GTA 36.74 325 eP 56 02.00 0.3
LSA 37.45 305 P 56 08.00 0.6
MRWA 40.99 193 eP 56 36.60 -0.4
GUN 41.22 300 P 56 39.00 -0.4
FORR 41.52 177 iPd 56 42.20 1.0
PKI 41.53 299 P 56 40.10 -1.8
KKK 41.70 300 P 56 43.40 0.2
DMN 41.80 299 P 56 43.40 -0.6
BAL 42.17 192 iPd 56 53.00 7.1X
GKN 42.30 300 P 56 46.00 -1.3
MUN 43.60 192 eP 56 59.00 0.7
NWA0 44.33 191 iPd 57 04.90 0.7
RKG 45.48 190 iPd 57 18.70 5.3X
WMO 46.58 322 P 57 23.00 0.9
GBA 47.46 279 Pd 57 28.60 -0.7

0.8s 3.60nm 4.4mb
DZM 51.44 130 iPd 58 00.00 0.1
NB2 92.11 334 P 02 01.30 -1.2
0.8s 1.00nm 4.3mb
S.D. = 1.1 on 28 of 31 obs.

? OCT 19, 1990 18h 57m 32.47 ± 1.94s
28.804 S ± 15.1km 176.693 W ± 21.0km
DEPTH = 144.3 ± 18.1 km
4.1mb (1 obs.)

KERMADEC ISLANDS REGION (177)

RAO 1.16 247 P 57 58.00 -0.4
S 58 24.50
MNG 13.42 207 eP 00 38.50 0.3
THZ 15.45 210 eP 01 08.00 4.1X
S 04 01.50
KHZ 15.72 208 P 01 06.90 -0.2
DZM 16.63 290 iPd 01 21.20 2.6
BKM 17.71 305 iPd 01 30.00 -1.6
ASPA 44.36 265 iPd 05 34.90 4.7X
Z 2.1s 9.00nm 4.1mb
0.3s 0.30um 4.1mszx
WB5 45.20 270 eP 05 40.90 4.0X
MAT 77.60 324 (P) 09 13.00 -1.0
CMB 84.82 41 eP 09 53.00 1.2
WDC 85.36 38 eP 09 55.00 1.4
TNP 86.71 43 P 10 00.00 -1.3
BJI 92.60 315 eP 10 44.50 16.0X
CHTO 94.13 289 (P) 10 35.00 -1.0
NB2 147.33 353 PKP 17 00.60 3.4X
0.9s 8.40nm
HFS 147.89 350 ePKP 17 02.50 4.5X
0.6s 1.80nm
S.D. = 1.7 on 10 of 16 obs.

? OCT 19, 1990 19h 38m 59.09 ± 1.87s
23.197 S ± 19.4km 68.261 W ± 18.2km
DEPTH = 110.0km (geophysicist)

NORTHERN CHILE (123)

ANT 2.04 255 iPd 39 33.10 0.0
iS 39 53.20
CCH 6.12 19 P 40 32.50 3.7X
CNCB 6.36 2 P 40 32.00 -0.4
LPB 6.63 1 eP 40 37.00 1.0
ZOB0 6.89 1 P 40 39.00 -0.7
SIV 9.86 45 P 41 19.40 0.0
S.D. = 0.9 on 5 of 6 obs.

% OCT 19, 1990 20h 32m 43.71 ± 3.57s
39.224 N ± 22.5km 16.360 E ± 18.3km
DEPTH = 10.0km (geophysicist)

SOUTHERN ITALY (390)

CZI 0.18 268 P 32 48.10 0.4
ROI 0.38 25 P 32 51.10 -0.5
TDS 0.43 358 P 32 53.00 0.4
eSg 33 03.90
CSI 0.55 354 P 32 56.10 1.1
MMN 0.72 337 P 32 57.00 -0.1
MGR 1.10 326 P 33 03.00 -1.4
eSn 33 21.50
S.D. = 1.1 on 6 of 6 obs.

* OCT 19, 1990 21h 04m 27.18 ± 0.94s
9.764 S ± 12.5km 120.762 E ± 7.1km
DEPTH = 33.0km (normal)
4.4mb (2 obs.)

SUMBA ISLAND REGION (287)

TRT 8.29 284 ePd 06 28.60 0.5
KNA 9.81 128 eP 06 49.90 0.8
eS 08 35.00
MTN 10.62 108 eP 06 59.00 -1.2
0.4s 171.00nm 6.6mb X
eS 08 54.00
MBL 11.37 184 eP 07 10.60 0.2
0.3s 5.00nm 5.2mb X
eS 09 11.00
NANU 13.68 201 eP 07 40.50 -0.7
0.3s 8.00nm 5.0mb X
eS 10 05.00
WB5 16.54 129 eP 08 19.30 0.9
eS 11 12.90
ASPA 18.67 139 iPd 08 46.00 1.1
0.9s 24.00nm 4.4mb
iS 12 01.70
MRWA 19.86 192 eP 08 58.00 -0.5
e 09 03.00
eS 12 28.00
QIS 21.09 123 eP 09 11.00 -0.3
eS 12 58.00
STK 29.27 142 eP 10 28.30 -0.3
0.5s 5.00nm 4.5mb
BRS 34.89 125 iPd 11 17.50 -0.4
CHG 35.63 323 eP 11 15.00 -9.2X
S.D. = 0.8 on 11 of 12 obs.

* OCT 19, 1990 21h 49m 14.84s
61.926 N 149.798 W
DEPTH = 46.3km
SOUTHERN ALASKA
<AGS-P>.

PWA 0.28 188 iPd 49 23.61 0.2
eS 49 30.87
GHO 0.44 110 iPd 49 25.05 -0.3
eS 49 33.87
PLRM 0.46 136 iPd 49 24.79 -0.6
CUT 0.53 335 iPd 49 26.24 0.0
SUA 0.65 225 eP 49 27.42 -0.5
PMS 0.69 170 eP 49 27.69 -0.8
eS 49 38.34
SML 0.70 99 iPd 49 27.85 -0.8
SKT 0.82 275 iPd 49 29.16 -1.0
eS 49 40.61
HUR 1.06 4 ePd 49 33.24 -0.3
eS 49 47.08
SCM 1.17 93 ePd 49 34.34 -0.9
CRP 1.31 241 ePd 49 36.50 -0.6
eS 49 53.72
BGL 1.41 243 ePd 49 37.77 -0.7
CKL 1.42 240 ePd 49 37.70 -1.0
eS 49 56.46
GLI 1.67 128 ePd 49 40.45 -1.7

TOA 1.72 82 eP 49 42.42 -0.5
VZW 1.78 118 eP 49 42.44 -1.3
SEW 1.84 175 eP 49 43.30 -1.1
VLZ 1.84 114 eP 49 42.78 -1.7
KNIM 1.87 147 eP 49 41.98 -3.0
KLU 1.90 102 eP 49 43.95 -1.5
RSO 2.05 226 eP 49 46.50 -1.2
SDG 2.08 71 eP 49 47.69 -0.3
MTU 2.21 151 eP 49 47.11 -2.6
CNPM 2.51 197 eP 49 53.24 -0.9

24 obs. associated

OCT 19, 1990 21h 57m 36.31 ± 1.13s
51.734 N ± 6.1km 16.367 E ± 10.9km
DEPTH = 10.0km (geophysicist)

POLAND (548)

ML 4.0 (GRF), 3.7 (VKA).

KSP 0.89 183 iPd 57 54.00 0.6
0.3s 159.00nm
iS 58 02.00
iLR 58 10.00
BRG 1.75 241 iPd 58 06.00 0.0
iPg 58 08.20
iSg 58 27.50
PRU 2.10 214 iPd 58 11.00 -0.1
iPg 58 13.00
iSn 58 31.00
Sg 58 36.00
CLL 2.14 260 iPd 58 13.00 0.4
iPg 58 15.00
iSg 58 42.00
KHC 3.16 215 iPd 58 27.00 0.0
Pg 58 33.50
Sn 59 02.50
Sg 59 16.00
HOF 3.17 245 iPd 58 27.30 0.1
MOX 3.18 252 ePd 58 28.00 0.7
iPg 58 36.00
iSg 59 15.00
WET 3.42 222 iPd 58 31.00 0.3
VKA 3.47 181 iPd 58 42.20 10.7X
iSg 59 24.70
SPC 3.55 134 e(Pn) 58 39.00 7.0X
e 58 49.20
i(Sn) 59 31.10
GRF 3.86 240 iPd 58 37.30 0.4
ePd 58 50.30
eSg 59 33.70
TNS 5.23 256 ePd 58 55.50 -0.9
eSn 00 21.00
SOTA 5.63 219 iPd 59 00.60 -1.6
iSn 00 32.60
FVI 5.66 206 P 59 01.60 -0.8
eSn 00 31.00
OGA 5.99 218 iPd 59 08.00 0.7
CTI 6.48 210 P 59 14.50 0.3
eSn 01 05.00
NRA0 9.41 345 Pn 59 54.80 0.0
Pg 00 04.80
Sn 01 38.50
Lg 02 27.70
S.D. = 0.7 on 15 of 17 obs.

* OCT 19, 1990 22h 55m 30.66s
61.408 N 151.044 W
DEPTH = 56.2km
SOUTHERN ALASKA
<AGS-P>.

SUA 0.16 69 iPd 55 39.74 0.0
CRP 0.55 256 iPd 55 42.82 -0.4
eS 55 52.90
PWA 0.61 66 iPd 55 43.48 -0.2
SKT 0.62 338 iPd 55 43.16 -0.7
eS 55 53.28
CKL 0.66 252 iPd 55 43.81 -0.6
eS 55 54.73
BGL 0.67 258 iPd 55 43.95 -0.5
NKA 0.67 188 ePd 55 45.59 1.1
PMS 0.73 102 ePd 55 44.85 -0.4
eS 55 56.61
PLRM 0.94 78 ePd 55 46.99 -0.8
eS 56 00.25
CUT 1.07 20 ePd 55 48.79 -0.8
RDT 1.07 219 iPd 55 48.76 -1.6
eS 56 03.79

GHO 1.08 69 eP 55 49.15 -0.7
 RSO 1.26 222 eP 55 51.90 -0.6
 RED 1.30 221 eP 55 52.15 -0.8
 SML 1.36 72 iP 55 52.50 -1.2
 >NNL 1.38 185 eP 55 56.29 2.4
 SEW 1.53 148 eP 55 56.15 0.2
 SCM 1.83 75 eP 55 58.53 -1.7
 KNIM 1.94 122 eP 55 58.55 -3.2
 GLI 1.99 104 iP 55 59.77 -2.7
 VZW 2.20 97 eP 56 03.14 -2.3
 VLZ 2.29 95 eP 56 03.97 -2.7
 KLU 2.46 86 eP 56 06.61 -2.6

23 obs. associated

OCT 19, 1990 23h 39m 21.47 ± 0.27s
 30.317 N ± 5.6km 57.474 E ± 3.4km
 DEPTH = 33.0km (normal)
 4.7mb (15 obs.) 4.1Msz (3 obs.)

IRAN
 Felt in the Kerman area.

MAIO 6.20 15 ePn 40 53.00 -0.2
 0.8s 16.47nm 4.8mb
 BRF 7.40 237 (Pn) 41 10.30 0.4
 BBU 7.41 238 ePn 41 10.70 0.6
 (Sn) 42 22.70
 BJA 7.44 236 iPn 41 12.30 1.9
 TEH 7.44 318 eP 41 10.00 -0.6
 DHR 7.60 240 ePc 41 11.60 -1.1
 RYD 11.14 243 iP+ 41 57.00 -4.5X
 44 00.70
 TAB 12.03 313 eP 42 16.00 2.3
 OASM 12.99 254 ePc 42 20.40 -6.1X
 AFIF 14.14 247 ePc 42 40.70 -0.9
 KMSA 15.34 233 ePc 42 50.40 -6.9X
 NDI 17.27 90 eP 43 21.20 -0.4
 KSH 17.68 54 eP 43 26.00 -0.9

N 11s 3.40um
 BOM 17.97 126 eP 43 29.50 -0.9
 46 11.00
 HRI 18.71 285 eP 43 40.00 0.5
 AYN 18.73 271 ePc 43 38.70 -1.0
 POO 18.95 125 iPd 43 40.20 -2.2
 ZNT 19.28 281 eP 43 46.00 -0.3
 HOL 19.49 273 ePd 43 48.70 0.0
 BADA 19.66 270 ePd 43 50.60 0.1
 RMN 19.71 276 iPd 43 49.80 -1.3
 CSS 20.84 289 eP 44 03.30 0.5
 BBTk 22.29 302 eP 44 18.00 0.6
 HYB 23.11 119 eP 44 26.00 0.5

1.0s 45.00nm 4.9mb
 GKN 23.81 89 P 44 32.20 -0.3
 KSL 24.00 291 eP 44 35.30 1.3
 ALT 24.06 299 eP 44 35.60 0.9
 DMN 24.30 89 P 44 39.20 1.8
 KKN 24.41 89 P 44 38.60 0.2
 0.6s 24.00nm 4.9mb
 PKI 24.58 89 P 44 40.20 0.1
 0.6s 20.00nm 4.9mb
 GBA 24.82 128 P 44 43.00 1.0
 HRT 24.83 303 eP 44 43.00 0.9
 GUN 24.91 88 P 44 43.70 0.4
 0.8s 40.00nm 5.1mb

CTT 25.82 303 eP 44 52.00 0.6
 BNT 26.00 301 eP 44 57.00 4.0X
 EDC 26.04 301 eP 44 53.80 0.4
 SMG 26.36 294 eP 45 01.50 5.2X
 NPS 27.17 289 eP 45 12.40 8.6X
 TLB 27.20 310 eP 45 13.00 9.1X
 KOD 27.31 133 eP 45 07.00 1.4
 WMO 27.45 52 P 45 07.00 0.6

Z 12s 0.60um 4.4MszX
 N 10s 0.40um
 ISR 28.38 310 eP 45 22.00 7.3X
 VRI 28.53 312 ePd 45 21.00 5.0X
 MLR 28.90 310 eP 45 22.00 2.5
 LSA 29.11 83 P 45 22.20 0.3
 VLI 29.39 292 eP 45 31.00 7.2X
 ITM 30.21 293 eP 45 30.40 -0.8
 SHL 30.69 90 eP 45 35.00 -0.7
 GTA 35.63 64 eP 46 18.20 -0.2
 0.8s 10.00nm 4.8mb
 KSP 36.77 316 eP 46 29.80 2.1
 NUR 37.25 334 eP 46 44.00 12.5X
 KHC 38.00 312 eP 46 38.50 0.4

CLL 38.89 316 eP 46 46.50 27kmX
 LZH 38.94 69 P 46 45.00 -0.4
 46 51.00 4.8X
 Z 16s 0.30um 4.2MszX
 N 16s 0.50um
 E 12s 0.30um
 SOTA 39.20 309 iPc 46 46.20 -2.0
 0.8s 10.60nm 4.7mb
 id 46 47.60 5kmX
 i 47 13.10
 i 47 30.50
 CHG 39.22 97 eP 46 48.10 -0.4
 SOD 41.37 343 iP 47 07.00 1.3
 HFS 41.64 329 eP 47 07.00 -0.9
 0.5s 2.00nm 4.1mb
 Z 18s 0.14um 3.9Msz

LR 05 22.00
 LPG 42.09 306 eP 47 10.60 -1.6
 0.7s 4.40nm 4.3mb
 LPL 42.11 306 eP 47 10.30 -2.0
 0.6s 3.60nm 4.3mb
 BNI 42.13 305 P 47 05.50 -6.8X
 NB2 43.14 329 P 47 19.00 -1.2
 0.7s 1.60nm 3.9mb
 GYA 43.18 83 P 47 24.80 3.6X
 XAN 43.33 71 P 47 23.00 0.8
 BTO 43.45 62 eP 47 25.00 1.9
 DOU 43.92 312 P 47 27.80 1.1
 SMF 44.17 307 eP 47 27.10 -1.7
 LOR 44.18 308 eP 47 26.90 -2.0
 0.7s 3.30nm 4.3mb
 Z 19s 0.15um 3.9Msz

HHC 44.60 61 eP 47 37.50 5.0X
 BCAO 44.83 243 iPc 47 33.40 -1.1
 0.5s 31.00nm 5.4mb
 TIY 45.60 65 eP 47 40.00 -0.4
 Z 18s 1.00um 4.8Msz
 N 14s 0.40um
 KRI 54.01 214 iPc 48 47.10 2.1
 LKO 62.02 265 P 49 39.52 -1.8
 0.6s 13.00nm 5.2mb
 MBC 73.68 359 eP 50 53.00 -0.1
 INK 81.34 4 eP 51 35.00 -0.5
 FBA 83.07 11 P 51 44.50 -0.1
 YKA 87.30 356 eP 52 04.90 -0.8
 0.7s 3.30nm 4.7mb
 WB5 89.15 114 eP 52 14.70 -0.6
 S.D. = 1.2 on 63 of 78 obs.

? OCT 20, 1990 00h 22m 55.76 ± 27.19s
 39.084 N ± 159.km 16.511 E ± 97.4km
 DEPTH = 10.0km (geophysicist)

SOUTHERN ITALY (390)
 CZI 0.32 295 P 23 02.40 0.0
 ROI 0.49 5 P 23 05.50 -0.2
 TDS 0.59 347 P 23 07.80 0.1
 eSg 23 21.30
 CSI 0.71 346 P 23 10.20 0.4
 MMN 0.90 334 P 23 12.60 -0.4
 S.D. = 0.4 on 5 of 5 obs.

* OCT 20, 1990 00h 28m 03.83 ± 1.77s
 40.274 N ± 8.9km 25.997 E ± 15.3km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)
 MD 3.3 (ISK).

EZN 0.51 151 iPn 28 14.20 0.0
 KGT 1.01 79 iPn 28 24.10 1.1
 MFT 1.10 62 ePn 28 24.00 -0.6
 EDC 1.43 86 ePn 28 34.80 5.0X
 BNT 1.47 86 ePn 28 34.60 4.2X
 CTT 2.04 64 ePn 28 45.00 6.3X
 YLV 2.59 82 ePn 28 46.00 -0.6
 MLR 5.22 360 eP 29 24.00 0.2
 S.D. = 1.0 on 5 of 8 obs.

? OCT 20, 1990 00h 52m 09.34 ± 2.80s
 17.435 N ± 21.4km 95.553 W ± 20.3km
 DEPTH = 33.0km (normal)
 OAXACA, MEXICO (60)

EVV 1.03 11 eP 52 27.50 0.0
 OXX 1.17 253 iP 52 29.75 0.1
 iS 52 44.50
 LVVM 2.44 340 (P) 52 56.50 8.7X

SCX 2.08 104 (P) 53 05.50 11.6X
 IS 53 25.50
 IIT 3.06 301 eP 52 56.50 -0.2
 PPM 3.34 300 eP 53 01.50 0.5
 III 3.84 285 eP 53 07.50 -0.3
 IIJ 4.58 301 (P) 53 36.00 17.4X
 S.D. = 0.4 on 5 of 8 obs.

? OCT 20, 1990 01h 58m 13.93 ± 3.54s
 41.970 N ± 38.9km 25.196 E ± 12.2km
 DEPTH = 5.0km (geophysicist)
 GREECE-BULGARIA BORDER REGION (363)
 ML 2.8 (THE).

ALN 1.25 149 ePc 58 38.18 0.6
 eS 59 00.06
 SRS 1.47 235 ePd 58 40.34 -0.8
 eS 59 01.06
 SOH 1.80 231 ePd 58 45.86 0.0
 eS 59 11.82
 KNT 1.90 246 ePc 58 47.18 -0.2
 eS 59 12.06
 MFT 1.97 126 ePn 58 52.00 3.7X
 VAY 2.07 253 ePn 58 50.70 0.9
 KGT 2.20 133 iPn 58 51.10 -0.5
 MLR 3.56 9 eP 59 15.00 3.9X
 S.D. = 0.9 on 6 of 8 obs.

? OCT 20, 1990 02h 52m 10.70 ± 16.75s
 24.055 N ± 56.9km 122.311 E ± 113.km
 DEPTH = 10.0km (geophysicist)
 TAIWAN REGION (243)

TWD 0.65 272 ePd 52 23.00 -0.7
 eS 52 32.00
 TWC 0.69 323 iPd 52 23.90 -0.5
 eS 52 34.20
 TWZ 1.23 327 ePd 52 33.60 0.0
 ANP 1.34 328 eP 52 34.50 -0.9
 TWQ 1.36 280 ePc 52 35.80 0.0
 S.D. = 0.6 on 5 of 5 obs.

* OCT 20, 1990 03h 12m 32.30s
 60.517 N 152.027 W
 DEPTH = 80.5km
 SOUTHERN ALASKA (2)
 <ACS-P>.

RDT 0.20 207 iP 12 43.76 1.0
 eS 12 53.07
 RSO 0.36 262 eP 12 44.95 -0.5
 IS 12 54.94
 RED 0.38 255 eP 12 44.83 -0.6
 NKA 0.45 59 iP 12 46.94 1.1
 >NNL 0.60 142 iP 12 47.30 0.1
 CKL 0.70 348 iP 12 47.73 -0.6
 CRP 0.76 355 eP 12 48.60 -0.4
 eS 13 00.93
 BGL 0.77 347 iP 12 48.63 -0.5
 HOM 0.88 167 eP 12 49.91 -0.3
 OPT 1.06 215 iP 12 51.86 -0.5
 eS 13 06.56

CNPM 1.07 158 iP 12 51.49 -1.0
 eS 13 06.84
 XLV 1.08 172 eP 12 51.43 -1.2
 SUA 1.14 33 iP 12 53.03 -0.4
 eS 13 09.20

PDB 1.31 237 iP 12 54.32 -1.2
 IS 13 11.55
 AUE 1.34 211 iP 12 55.11 -0.9
 SEW 1.35 107 eP 12 54.14 -1.9
 AUH 1.36 212 eP 12 55.67 -0.6
 AUI 1.38 211 eP 12 55.65 -0.8
 PMS 1.41 58 iP 12 56.04 -0.9
 eS 13 14.14

SKT 1.49 9 iP 12 56.98 -0.9
 PWA 1.54 42 eP 12 58.42 -0.2
 MCNL 1.77 222 iP 13 00.62 -1.1
 PLRM 1.77 51 eP 13 00.11 -1.6
 CDD 1.79 208 eP 13 00.85 -1.1
 SVW 1.86 290 eP 13 01.33 -1.6
 GHO 1.96 49 eP 13 02.82 -1.5
 eS 13 26.14
 BGM 1.97 236 eP 13 03.43 -0.9
 CUT 2.07 23 iP 13 05.07 -0.7
 KNIM 2.13 93 iP 13 03.42 -3.2
 SML 2.21 53 iP 13 06.05 -1.6

20d 03h

MTU	2.25	102	eP	13	05.60	-2.5
GLI	2.45	79	eP	13	07.39	-3.6
SCM	2.63	58	eP	13	11.55	-2.0
HUR	2.72	24	eP	13	14.07	-0.6
VLZ	2.86	75	eP	13	13.02	-3.5
KLU	3.13	69	iP	13	17.69	-2.7
TOA	3.24	58	eP	13	20.53	-1.4
RND	3.26	26	eP	13	20.77	-1.5
MCK	3.54	23	eP	13	26.49	0.5
NEA	4.30	17	eP	13	35.34	-1.3
WRH	4.37	23	eP	13	35.07	-2.5
HDA	4.56	29	eP	13	38.48	-1.8
CCB	4.58	23	iP	13	38.63	-1.9

43 obs. associated

? OCT 20, 1990 03h 58m 33.56±10.25s
40.210 N ±65.1km 29.622 E ±26.0km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.1 (ISK).

IZI	0.17	318	iPg	58	37.00	-0.5
YLV	0.40	332	iPg	58	42.00	0.2
			iSg	58	45.00	
HRT	0.61	3	ePg	58	45.80	-0.1
CTT	1.30	316	ePn	58	58.00	0.3

S.D. = 0.6 on 4 of 4 obs.

& OCT 20, 1990 04h 29m 07.86s
62.890 N 150.648 W
DEPTH = 105.6km
CENTRAL ALASKA (1)
<AGS-P>.

HUR	0.47	79	eP	29	24.01	-0.3
			eS	29	36.21	
CUT	0.52	160	iP	29	24.45	-0.1
RND	0.97	57	eP	29	28.40	-0.3
			eS	29	43.22	
SKT	1.00	205	iP	29	28.66	-0.4
			eS	29	44.76	
MCK	1.15	42	eP	29	32.03	1.4
PWA	1.29	164	iP	29	32.25	0.0
GHO	1.38	144	iP	29	33.26	-0.2
SUA	1.43	182	eP	29	34.14	0.0
PLRM	1.48	151	eP	29	33.86	-0.7
PMR	1.48	151	eP	29	33.80	-0.8
			eS	29	54.70	
SML	1.53	134	iP	29	34.69	-0.5
PMS	1.73	162	eP	29	37.36	-0.3
CRP	1.78	204	eP	29	37.96	-0.5
BGL	1.83	207	eP	29	38.85	-0.2
NEA	1.83	22	iP	29	37.78	-1.2
SCM	1.88	123	eP	29	38.68	-1.0
WRH	1.95	35	eP	29	39.56	-1.0
CCB	2.17	34	eP	29	42.06	-1.3
TOA	2.22	109	eP	29	43.70	-0.4
HDA	2.24	46	eP	29	42.86	-1.5
FBA	2.38	31	eP	29	45.00	-1.1
SDG	2.38	97	eP	29	45.89	-0.3
TTA	2.46	273	eP	29	45.70	-1.5
RDT	2.47	201	eP	29	46.99	-0.4
GLM	2.55	33	eP	29	47.32	-1.2
KLU	2.62	120	eP	29	47.74	-1.7
GLI	2.63	139	eP	29	48.00	-1.5
VZW	2.67	132	eP	29	48.07	-2.0
VLZ	2.69	129	eP	29	47.92	-2.4
SEW	2.85	168	eP	29	51.51	-1.0
KNIM	2.90	150	eP	29	50.93	-2.3
SVW	2.95	235	eP	29	52.30	-1.5
IMA	3.45	339	eP	29	59.20	-1.5
GLB	3.52	111	iP	30	00.05	-1.6

34 obs. associated

& OCT 20, 1990 04h 32m 24.21s
62.148 N 150.438 W
DEPTH = 1.3km
CENTRAL ALASKA (1)
<AGS-P>.

CUT	0.27	17	iP	32	30.23	0.6
SKT	0.54	252	eP	32	35.04	0.0
			eS	32	42.69	
PWA	0.56	152	eP	32	36.30	0.8
			eS	32	44.54	
SUA	0.70	192	iP	32	38.73	0.5
			eS	32	48.91	

GHO	0.81	117	iP	32	39.88	-0.5
			eS	32	51.69	
PLRM	0.83	131	eP	32	40.51	-0.3
			eS	32	52.58	
HUR	0.91	24	iP	32	41.04	-1.3
			eS	32	54.10	
PMS	1.00	155	eP	32	43.43	-0.5
			iS	32	57.77	
SML	1.05	108	iP	32	44.02	-0.8
			eS	32	59.40	
CRP	1.20	224	eP	32	47.01	-0.6
BGL	1.29	227	eP	32	48.11	-0.8
CKL	1.32	224	eP	32	48.84	-0.6
RND	1.46	29	eP	32	49.89	-1.9
			eS	33	09.35	
SCM	1.50	101	eP	32	51.21	-1.2
MCK	1.73	23	eP	32	54.56	-1.1
RDT	1.84	212	eP	32	57.37	0.1
TOA	2.00	89	eP	32	59.80	0.2
RSO	2.03	214	eP	33	00.37	0.3
RED	2.07	214	eP	33	01.24	0.7
SEW	2.11	166	eP	33	02.80	1.8
VZW	2.15	119	eP	33	02.21	0.5
VLZ	2.21	116	eP	33	02.69	0.2
KNIM	2.23	143	eP	33	01.85	-0.9
KLU	2.24	105	eP	33	02.66	-0.4
WRH	2.56	23	eP	33	04.95	-2.6

25 obs. associated

? OCT 20, 1990 05h 20m 34.88±16.48s
16.984 N ±72.3km 100.120 W ±134.6km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF GUERRERO, MEXICO (58)

ACX	0.28	114	iP	20	40.50	-0.2
			iS	20	44.00	
III	1.52	24	iP	21	02.50	0.2
			iS	21	24.00	
PPM	2.51	34	eP	21	16.50	-0.4
			iS	21	52.00	
OXX	3.25	88	eP	21	27.50	0.4

S.D. = 0.6 on 4 of 4 obs.

& OCT 20, 1990 05h 35m 42.26s
61.793 N 149.698 W
DEPTH = 37.7km
SOUTHERN ALASKA (2)
<AGS-P>.

PWA	0.17	211	iP	35	49.40	0.4
			iS	35	54.81	
PLRM	0.34	126	eP	35	50.05	-0.7
			eS	35	57.22	
GHO	0.37	93	iP	35	50.70	-0.6
			eS	35	58.12	
PMS	0.55	173	iP	35	53.16	-0.6
SUA	0.60	237	eP	35	54.03	-0.4
SML	0.65	88	iP	35	53.89	-1.2
CUT	0.67	337	iP	35	54.24	-1.0
SKT	0.89	283	iP	35	57.37	-1.0
			eS	36	09.60	
SCM	1.13	87	iP	36	01.17	-0.7
HUR	1.19	1	eP	36	01.94	-0.7
			eS	36	17.69	
CRP	1.29	247	eP	36	04.52	0.3
BGL	1.40	249	eP	36	05.90	0.2
CKL	1.40	246	eP	36	05.77	0.0
GLI	1.55	125	eP	36	07.24	-0.6
RND	1.67	13	eP	36	08.69	-0.9
VZW	1.68	115	eP	36	09.45	-0.3
TOA	1.70	78	eP	36	10.43	0.4
SEW	1.70	176	eP	36	09.38	-0.6
KNIM	1.74	146	iP	36	08.74	-1.8
VLZ	1.75	111	eP	36	09.99	-0.6
RDT	1.79	228	eP	36	10.99	-0.4
KLU	1.83	98	eP	36	11.31	-0.6
MCK	1.98	10	eP	36	13.50	-0.5
RED	2.03	229	eP	36	14.68	-0.2
MTU	2.07	150	eP	36	13.67	-1.6
SDG	2.08	67	eP	36	15.65	0.1
CNPM	2.40	199	eP	36	20.39	0.4
CCB	2.99	16	eP	36	26.38	-2.0
FBA	3.24	15	eP	36	30.34	-1.5

29 obs. associated

OCT 20, 1990 05h 47m 50.34±0.47s
36.545 N ±8.2km 139.288 E ±8.6km

DEPTH = 121.8 ± 5.2 km
4.4mb (2 obs.)
HONSHU, JAPAN (227)

CHJJ	0.55	206	iPd	48	09.00	0.0
			S	48	22.30	
NIJJ	0.73	342	iP+	48	09.80	-0.5
			S	48	23.80	
KAKJ	0.79	115	iPd	48	10.40	-0.4
			S	48	24.40	
MAT	0.87	270	iPd	48	11.20	-0.4
			eS	48	26.00	
MTMJ	1.19	272	P	48	14.90	0.0
IIDJ	1.54	227	P	48	19.30	0.5
			S	48	40.40	
YAMJ	1.73	20	iP+	48	21.40	0.4
			eS	48	46.00	
TSRJ	2.86	250	P	48	36.30	0.8
OFUJ	3.16	36	P	48	39.60	0.2
			eS	49	16.30	
MTN	49.72	190	eP	56	32.00	0.1
	0.4s		17.00nm			5.3mb
WB5	56.31	186	eP	57	19.80	-0.8
N82	73.97	337	P	59	12.40	-1.3
	0.7s		0.80nm			3.6mb
TNP	77.53	52	P	59	35.80	1.4
CNCB	148.87	58	PKP	07	28.70	6.7X

S.D. = 0.8 on 13 of 14 obs.

? OCT 20, 1990 06h 00m 29.01±0.96s
35.452 N ±20.9km 24.434 E ±9.2km
DEPTH = 33.0km (normal)

CRETE (370)
MD 3.3 (ATH).

VAM	0.20	257	ePb	00	35.50	-0.1
NPS	0.98	101	ePn	00	46.80	0.3
VLJ	1.75	317	ePn	00	57.60	0.1
KAP	2.24	87	ePn	01	04.20	-0.3

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

* OCT 20, 1990 06h 36m 12.75±0.81s
19.259 N ±8.8km 120.997 E ±13.0km
DEPTH = 33.0km (normal)
4.4mb (3 obs.)

PHILIPPINE ISLANDS REGION (248)

QZH	6.08	339	eP	37	40.00	-2.7
QIZ	10.55	271	eP	38	43.00	-1.8
			eS	40	35.20	
TJA	17.23	349	eP	40	13.10	0.6
XAN	18.23	326	P	40	25.20	0.2
CD2	19.42	310	P	40	39.70	0.3
TIY	19.85	340	eP	40	43.80	-0.1
Z	16s		1.00um			
N	11s		0.20um			
			eS	44	22.00	
BJI	21.12	350	eP	40	56.50	-0.5
	1.1s		17.00nm			4.4mb
LZH	22.56	321	Pd	41	13.00	1.4
Z	18s		0.30um			3.8msz
			SP	41	31.50	
HHC	22.99	341	eP	41	16.20	0.5
GUN	33.22	292	P	42	50.40	1.0
PKI	33.60	291	P	42	53.40	0.7
KKN	33.74	291	P	42	53.80	0.1
DMN	33.87	291	P	42	55.70	0.8
GKN	34.33	292	P	42	58.80	0.0
WB5	41.05	161	eP	43	53.80	-1.1
ASPA	44.48	163	eP	44	23.30	0.4
	0.9s		4.80nm			4.3mb
YKA	87.56	23	eP	49	06.40	7.9X
	0.9s		2.20nm			4.4mb

S.D. = 1.1 on 16 of 17 obs.

& OCT 20, 1990 07h 04m 01.90s
37.018 N 118.338 W
DEPTH = 2.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<8RK>. ML 3.1 (BRK).

FRI	1.10	269	iPc	04	22.00	-1.2

IMA 61.48 27 0P 17 45.20 -1.0

20d 08h

	1.7s	126.70nm	5.8mb	SGO	66.10	304 P	18	17.90	1.3	GRC	70.20	315 P	18	43.18	1.1	
		i	18 21.90	155kmX	KDC	66.10	35 eP	18	14.80	-1.5	AVF	70.31	314 eP	18	40.20	-2.6
ZST	61.49	311 iP	17 47.70	1.4				18	18.20	11km		1.1s	52.50nm		5.6mb	
PMG	61.58	130 eP	17 47.00	-0.2	DUI	66.12	305 P	18	15.50	-1.4	LMR	70.32	310 eP	18	40.50	-2.4
	1.2s	93.75nm	5.8mb	MGR	66.14	303 P	18	15.00	-1.9		1.2s	53.55nm		5.5mb		
HYA	61.70	327 eP	17 48.00	0.4	GRI	66.19	301 P	18	18.65	1.3	PLDF	70.61	313 P	18	45.91	1.1
VKA	61.94	311 iPc	17 50.90	1.5		0.2s	8.10nm		5.6mb	BGF	70.73	314 eP	18	42.80	-2.6	
	3.0s	291.00nm	5.9mb	ARV	66.21	307 P	18	18.50	1.2		1.0s	18.00nm		5.2mb		
Z	14s	4.00um	5.7MszX	TOA	66.36	29 eP	18	17.90	-0.1	NWAO	70.78	168 eP	18	45.00	-0.7	
		i	18 10.70	76kmX	OSS	66.38	311 eP	18	17.20	-1.4	AGO	70.85	314 P	18	47.57	1.4
		i	18 25.10		SDI	66.52	305 P	18	19.90	0.5	MAF	71.08	314 eP	18	45.60	-1.9
		LR	46 05.00		ASS	66.60	307 P	18	20.30	0.4		1.0s	57.00nm		5.7mb	
BRN	61.98	316 eP	17 52.00	2.4	INK	66.62	20 eP	18	18.50	-1.0	PYM	71.09	313 P	18	49.07	1.4
TTA	62.02	31 eP	17 48.80	-1.0		0.8s	46.00nm		5.7mb	LBL	71.24	313 P	18	48.79	0.4	
SOP	62.04	310 iPd	17 50.00	0.0	AZI	66.63	306 P	18	21.50	1.5	LDF	71.24	317 eP	18	46.00	-2.4
BRG	62.22	314 iPd	17 52.50	1.3	SFI	66.69	308 P	18	22.00	1.6		0.9s	27.85nm		5.4mb	
	1.2s	54.00nm	5.6mb	GWF	66.72	315 P	18	21.43	0.9	TCF	71.25	314 eP	18	46.30	-2.3	
		iPcP	18 31.30	311kmX	ENN	66.77	317 iPd	18	22.10	1.4		1.0s	47.00nm		5.6mb	
		i	19 01.60			1.0s	69.00nm		5.8mb	FLN	71.34	317 eP	18	46.40	-2.6	
		eS	26 20.00					20	49.00	792kmX		1.0s	40.00nm		5.5mb	
		eScS	27 47.00		ASPA	66.77	150 iPc	18	20.40	-0.6	Z	20s	7.25um		5.9Msz	
PRU	62.26	313 iPd	17 52.50	1.0		0.8s	45.50nm		5.7mb	GRR	71.76	317 eP	18	49.20	-2.3	
	Z	19s	6.50um	5.8Msz	CRE	66.77	308 P	18	21.00	-0.1		0.9s	50.80nm		5.6mb	
	N	17s	6.00um		PGD	66.80	308 P	18	21.50	0.2	LPF	72.07	317 eP	18	51.20	-2.2
	E	15s	3.80um		MEM	66.80	317 Pc	18	22.70	1.8		1.0s	30.00nm		5.3mb	
		e	17 56.50	13km				18	42.40	75kmX	CAF	72.10	313 eP	18	52.00	-1.7
		S	26 18.00					20	49.20			1.3s	65.00nm		5.6mb	
VAM	62.32	295 eP	17 50.80	-1.3	SLE	66.82	313 eP	18	19.80	-1.4	RJF	72.21	314 eP	18	52.40	-1.9
ASK	62.44	326 eP	17 53.00	0.5	VDL	66.88	311 eP	18	20.30	-1.6		1.2s	83.30nm		5.7mb	
CLL	62.57	315 iPd	17 54.30	0.8	MNS	66.92	306 P	18	21.40	-0.6	Z	18s	5.75um		5.9Msz	
	1.3s	71.00nm	5.7mb	MRWA	66.95	168 eP	18	20.50	-1.5	MFF	72.41	315 eP	18	53.50	-1.9	
Z	17s	3.00um	5.5MszX	FEL	67.05	313 eP	18	23.35	0.6		1.0s	136.00nm		6.0mb		
		eS	26 18.00		MDI	67.09	311 P	18	18.00	-4.9X	NAI	72.58	255 eP	18	57.00	-0.1
VLI	62.63	297 eP	17 51.30	-2.8	WLS	67.16	314 P	18	24.14	0.8	LPO	72.75	313 eP	18	55.70	-1.8
SVW	63.03	32 eP	17 56.20	-0.3	ATN	67.17	301 P	18	24.00	0.5		0.9s	19.65nm		5.2mb	
ITM	63.14	298 eP	17 55.30	-2.2	CDF	67.20	314 eP	18	21.10	-2.6	LFF	72.87	314 eP	18	56.50	-1.6
PTJ	63.19	309 eP	17 57.50	-0.3		1.0s	32.00nm		5.5mb		1.1s	53.70nm		5.5mb		
KHC	63.20	313 iP	17 59.20	1.5	CDF	67.20	314 P	18	24.52	0.8	BST	73.53	318 P	19	04.04	2.1
	1.1s	11.00nm	5.0mb	MME	67.28	309 P	18	26.20	1.8	SIT	73.82	29 e(P)	19	03.30	-0.1	
N	16s	1.80um		ECH	67.37	314 P	18	25.47	0.8	EPF	74.22	312 eP	19	03.80	-2.3	
E	18s	3.50um		BDI	67.41	309 P	18	25.50	0.5		1.3s	25.25nm		5.1mb		
		S	26 32.00		TMA	67.43	311 eP	18	23.00	-2.3	ESEL	74.56	308 eP	19	11.70	3.6X
WB5	63.59	148 eP	17 59.50	-1.0	MOF	67.57	314 P	18	26.80	0.8	EROO	75.48	310 eP	19	15.20	1.9
WET	63.60	313 iPd	18 01.80	1.4	DWY	67.62	25 P	18	24.80	-1.2	YKA	76.06	17 eP	19	15.30	-0.9
	1.2s	45.00nm	5.5mb	BOB	67.76	310 P	18	28.40	1.1		0.7s	22.90nm		5.4mb		
VLS	63.62	299 eP	17 49.90	-10.7X	BSF	67.78	314 P	18	28.00	0.6	RMO	76.08	139 eP	19	17.50	0.7
MOX	63.65	315 eP	18 02.00	1.3	SNF	67.79	317 P	18	29.00	1.8	ECRI	76.14	313 eP	19	19.50	2.3
	1.4s	49.00nm	5.5mb	DOU	67.84	317 Pc	18	29.10	1.6	ETOR	76.97	311 eP	19	21.70	-0.2	
Z	11s	1.80um	5.5MszX		1.0s	61.10nm		5.7mb	ECHE	77.07	310 eP	19	24.10	1.8		
N	12s	5.00um		HAU	67.94	314 eP	18	25.80	-2.5	STK	77.19	148 iPc	19	23.80	1.0	
E	13s	2.80um									0.9s	22.00nm		5.2mb		
		eS	26 32.00		Z	20s	6.25um		5.8Msz	GUD	78.33	312 iPc	19	29.50	0.1	
MBC	63.68	11 ePc	18 00.10	-0.4	MMK	68.01	312 eP	18	27.70	-1.3	EAKH	78.40	309 eP	19	31.70	2.0
	0.7s	19.00nm	5.4mb	LOMF	68.01	313 P	18	28.71	0.0	EVIA	78.59	310 eP	19	30.70	-0.1	
LJU	64.01	309 eP	18 04.00	0.9	VITF	68.04	314 P	18	29.87	1.1	ADE	78.71	151 eP	19	30.00	-1.2
CEY	64.22	309 eP	18 05.00	0.5	AKU	68.18	338 eP	18	29.00	-0.4	CMS	78.75	144 eP	19	32.00	0.6
BHG	64.25	311 eP	18 06.40	1.7		0.9s	57.14nm		5.8mb	TOL	78.75	312 eP	19	32.50	1.0	
GRF	64.31	314 iPc	18 06.60	1.6							iS	29 31.00				
	1.1s	122.00nm	6.0mb	DIX	68.32	312 eP	18	29.80	-1.2		iSS	33 42.00				
Z	19s	3.00um	5.5Msz	BAL	68.43	168 eP	18	32.00	0.7		iSSS	37 42.00				
		e(Pp)	18 26.40	76kmX	EKA	68.92	324 Pd	18	34.90	0.8	ENIJ	79.45	308 eP	19	37.20	1.8
		e	18 45.70			1.0s	27.90nm		5.4mb	EPLA	79.83	313 eP	19	37.60	0.2	
		e	19 32.80		LPG	69.02	312 eP	18	33.50	-1.8	AFC	80.10	309 eP	19	40.10	1.0
VOY	64.41	309 ePc	18 06.00	0.2		1.0s	63.00nm		5.8mb	ECOG	80.10	309 eP	19	40.10	1.1	
RIY	64.42	309 eP	18 05.70	-0.1	LPL	69.02	312 eP	18	33.40	-1.9	EHOR	80.78	311 eP	19	42.70	0.2
LCI	64.43	302 P	18 05.50	-0.4		1.0s	65.00nm		5.8mb	COO	81.00	139 iPd	19	48.20	4.6X	
TRI	64.64	309 iPc	18 06.00	-1.2	PGF	69.19	308 eP	18	34.00	-2.2	EPRU	81.32	310 eP	19	46.90	1.5
FVI	64.83	310 P	18 08.50	0.1		0.7s	35.30nm		5.6mb	EJIF	81.80	310 eP	19	49.20	1.4	
FUR	65.00	312 eP	18 11.60	2.1	BNI	69.30	311 P	18	35.60	-1.3	EVAL	81.84	311 eP	19	48.40	0.4
	0.9s	55.00nm	5.7mb	SBF	69.47	310 eP	18	35.10	-2.7	BFD	82.14	150 eP	19	53.00	3.7X	
Z	17s	4.00um	5.7MszX		0.7s	51.80nm		5.8mb	BWA	82.39	144 eP	19	53.00	2.2		
WIT	65.35	318 eP	18 14.50	2.9X	CTA	69.56										

SES	87.63	21	eP	20	17.00	0.0		N	11s	8.10um		BGF	70.59	314	eP	50	34.10	-0.6			
LRM	91.25	24	eP	20	35.00	0.7		E	11s	2.90um		MAF	70.94	314	eP	50	36.80	0.0			
WDC	91.80	33	ePc	20	37.80	1.2				S	45	03.00			14.00nm		5.0mb				
MIN	92.41	33	eP	20	38.10	-1.5		WMO	13.81	304	P	42	34.50	-1.1	LDF	71.11	317	eP	50	37.30	-0.5
ORV	93.10	33	eP	20	43.80	1.2		Z	12s	4.10um			0.9s		9.85nm		4.9mb				
BRK	94.14	35	eP	20	50.90	3.5X				sP	42	47.50		TCF	71.11	314	eP	50	37.60	-0.3	
CMB	94.84	34	eP	20	51.70	1.0		DL2	14.32	77	eP	42	43.20	1.0		1.0s	9.00nm		4.8mb		
FRI	96.01	34	eP	20	59.00	3.0X		SSE	15.75	107	Pc	43	05.50	4.6X	FLN	71.21	317	eP	50	37.80	-0.5
PR1	96.28	35	eP	20	58.80	1.4			1.2s	42.00nm			4.5mb		GRR	71.63	317	eP	50	40.40	-0.5
GLD	99.01	22	P	21	13.00	3.2X		Z	13s	2.30um			4.4Msz			0.8s	12.10nm		5.1mb		
KIC	100.74	286	(Pdfff21	19.10	1.4			N	14s	7.50um					MFF	72.27	315	eP	50	44.80	0.1
LIC	101.05	286	(Pdfff21	20.50	1.4			E	14s	4.50um						0.7s	13.25nm		5.1mb		
ALO	103.01	25	ePdfff21	33.00	5.4X		SNY	16.10	67	eP	43	05.60	0.2	YKA	76.05	17	eP	51	06.50	0.2	
	1.0s		3.50nm		5.0mb			1.0s	200.00nm			5.2mb			0.8s	6.30nm		4.8mb			
TUL	105.13	16	e(PKP)	25	50.30	-1.0		Z	16s	3.30um			4.2Msz		STK	77.31	148	IPc	51	14.10	0.5
	0.9s		3.70nm					N	11s	2.70um						0.8s	5.00nm		4.7mb		
PDCR	138.79	297	ePKP	26	51.90	-4.1X		E	11s	2.30um					BCAO	83.42	271	IPd	51	48.00	1.3
BAO	147.10	303	ePKP	27	12.50	2.1			16.34	146	P	43	05.80	-2.6		0.8s	5.00nm		4.8mb		
JFO	147.70	289	ePKP	27	13.90	2.7X			N	10s	3.50um				DZM	83.47	124	IPc	51	52.70	5.9X
			e	27	15.80				E	10s	6.10um				EDM	84.46	21	eP	51	53.00	1.6
			e	27	22.00		GUN	17.54	243	P	43	22.40	-1.5	PNT	85.78	27	eP	51	59.00	1.0	
BMA	148.89	288	ePKP	27	17.70	4.7X			17.87	61	IPd	43	27.00	-0.6	FFC	85.89	15	eP	51	59.00	0.6
VAO	151.18	291	ePKP	27	22.60	6.1X		CN2	1.0s	100.00nm			4.9mb			0.8s	10.00nm		5.0mb		
			e	27	28.60				Z	13s	4.80um		5.2MszX		SES	87.63	21	eP	52	08.00	0.9
			e	27	33.10					eP	43	35.00			LRM	91.26	24	eP	52	25.80	1.3
PPD	153.75	298	ePKP	27	19.70	-0.5				eS	46	41.00		BAO	146.95	303	ePKP	59	04.50	4.2X	
NNA	155.00	1	IPKP	27	22.00	0.0		KKN	18.04	244	P	43	28.70	-1.3	JFO	147.55	289	ePKP	59	05.70	4.6X
	0.8s		10.45nm				PKI	18.07	243	P	43	29.40	-1.1	VAO	151.03	291	(PKP)	59	17.00	10.6X	
SIV	155.06	323	PKP	27	23.00	1.0		DMN	18.27	244	P	43	31.40	-1.5	SIV	154.93	323	PKP	59	14.00	2.0
			i	27	49.00			GKN	18.38	246	P	43	32.40	-1.7				i	59	39.20	
ZOBO	158.05	339	PKPc	27	29.50	2.9X		CHG	18.72	194	ePc	43	39.00	0.7	ZOBO	157.95	338	ePKP	59	16.00	-0.6
	1.1s		8.99nm						1.0s	20.00nm		4.3mb		CNCB	158.42	338	PKP	59	20.00	2.9X	
Z	24s		0.98um		5.6MszX		LOE	19.74	185	IPd	43	49.00	-1.3		S.D. = 1.1	on 69 of 85 obs.					
			LR	25	28.00		BDT	20.24	193	ePd	43	56.80	1.2								
LPB	158.30	339	ePKP	27	28.00	1.3			0.8s	26.00nm		4.6mb									
Z	20s		1.77um		5.9Msz		MDJ	20.96	61	eP	44	04.00	1.2								
			LR	26	40.00				1.0s	60.00nm		4.9mb									
CCH	158.45	333	PKP	27	28.60	1.9		NST	21.61	189	eP	44	06.90	11km							
CNCB	158.52	338	PKP	27	28.00	0.9		NDI	23.65	257	eP	44	31.00	1.3							
	S.D. = 1.4	on 268 of 304 obs.							0.6s	23.33nm		4.9mb									
	OCT 20, 1990	08h	39m	17.50±	0.21s		SHK	23.67	88	eP	44	30.50	0.6	CUT	0.40	1	IP	58	24.97	-0.7	
	37.148 N ± 3.7km	103.606 E ± 3.4km					NNT	24.70	189	eP	44	40.30	0.4	PWA	0.40	152	IP	58	25.57	-0.1	
	DEPTH = 10.4km	(2 depth phases)					MAT	27.61	81	(P)	45	00.00	-6.9X	SUA	0.59	202	IP	58	27.71	-0.1	
	4.9mb (28 obs.)						GBA	33.09	232	P	45	55.70	0.1				eS	58	30.15		
	GANSU PROVINCE, CHINA	(322)					KOD	35.69	228	eP	46	18.80	0.5	SKT	0.59	268	IP	58	27.02	-0.8	
	Felt in the Tianshu area.						VRI	56.16	305	ePd	49	01.50	2.1	GHO	0.68	109	IP	58	28.62	-0.3	
							TNR	57.84	305	ePc	49	15.00	3.6X				eS	58	39.59		
LZH	1.08	170	Pgc	39	40.00	2.2	HFS	58.59	324	eP	49	16.70	0.3	PLRM	0.68	127	IP	58	28.09	-0.8	
			Sg	39	53.00				0.5s	3.20nm		4.7mb		PMS	0.84	155	IP	58	30.33	-0.5	
GTA	3.74	308	IPnc	40	17.90	1.3	NB2	59.40	326	P	49	22.40	0.3	SML	0.94	101	IP	58	31.59	-0.7	
	Z	12s	10.80um					0.7s	5.30nm		4.8mb		HUR	1.02	17	IP	58	32.53	-0.8		
			Pg	40	27.60		KSP	60.74	313	eP	49	35.50	4.2X				eS	58	46.26		
			Sg	41	13.70		ZST	61.35	310	e(P)	49	39.20	3.7X	CRR	1.16	231	eP	58	34.49	-0.9	
XAN	5.33	124	Pn	40	39.20	0.2	IMA	61.49	27	eP	49	36.30	-0.1				eS	58	50.62		
			Pg	40	55.60			1.4s	17.20nm		5.0mb		BGL	1.25	235	eP	58	36.01	-0.5		
			Sg	42	04.00		TTA	62.04	31	eP	49	39.80	-0.3	CKL	1.28	231	eP	58	35.93	-0.9	
BTO	6.07	53	Pg	41	11.00	21.5X	BRG	62.08	314	eP	49	44.20	3.8X	NKA	1.35	200	eP	58	38.97	1.2	
	N	11s	5.10um					i	50	02.60	70kmX		SCM	1.41	96	eP	58	38.02	-0.6		
	E	11s	8.20um				PRU	62.12	313	eP	49	44.00	3.3X				eS	58	56.75		
			Sg	42	30.00		CLL	62.43	315	eP	49	46.00	3.3X	RND	1.55	24	eP	58	39.47	-1.2	
CD2	6.22	179	Pn	40	54.00	2.4	KHC	63.06	313	eP	49	50.00	3.1X	RDT	1.77	217	eP	58	42.56	-1.1	
	Z	11s	11.30um				SVW	63.06	32	eP	49	47.20	0.4	MCK	1.84	19	eP	58	43.68	-1.0	
			Pg	41	14.80		MBC	63.65	10	eP	49	50.50	0.1	GLI	1.90	125	eP	58	43.75	-1.7	
			Sg	42	36.50			1.0s	7.00nm		4.8mb		TOA	1.94	85	eP	58	45.54	-0.5		
TIY	7.05	83	Pnc	41	01.70	-1.5	WBS	63.71	148	eP	49	51.10	-0.3	SEW	1.95	168	eP	58	45.07	-1.1	
	Z	14s	7.10um				GRF	64.17	314	e(P)	49	58.30	4.0X	RSO	1.96	219	eP	58	46.40	-0.1	
			Pg	41	28.20		FBA	64.21	27	P	49	54.70	0.5	RED	2.00	218	eP	58	46.67	-0.2	
			Sg	42	59.00		PMR	65.50	30	eP	50	01.80	-0.8	VZW	2.02	116	eP	58	45.87	-1.3	
HHC	7.21	57	ePn	41	05.00	-0.6			0.8s	14.10nm		5.2mb		NNL	2.03	195	eP	58	47.33	0.0	
			Pg	41	30.40		KDC	66.13	35	e(P)	50	05.70	-1.0	KNIM	2.07	142	eP	58	44.85	-3.0	
			Sg	43	05.40		TOA	66.38	29	eP	50	09.30	1.0	VLZ	2.08	113	eP	58	46.33	-1.6	
BJI	10.25	70	eP	41	45.50	-2.1	INK	66.61	20	eP	50	10.00	0.4	KLU	2.14	102	IP	58	47.24	-1.6	
	0.7s		23.00nm		5.7mb		ASPA	66.89	150	eP	50	11.40	-0.5	SDG	2.28	75	eP	58	50.17	-0.6	
	Z	12s	4.80um		4.2Msz			0.6s	16.50nm		5.4mb		MTU	2.39	147	eP	58	51.07	-1.3		
	N	10s	4.00um				CDF	67.06	314	eP	50	12.40	-0.6	CNPM	2.53	191	eP	58	54.47	0.1	
	E	10s	4.30um				BSF	67.64	314	eP	50	15.90	-0.7	WRH	2.67	21	eP	58	54.35	-1.9	
TIA	10.90	91	eP	41	55.50	-1.0	LPG	68.88	312	eP	50	24.70	0.1	SVW	2.71	253	eP	58	54.74	-2.2	
	Z	12s	2.90um					0.6s	5.40nm		4.9mb		HDA	2.84	31	eP	58	56.78	-2.0		
	N	11s	2.10um				LPL	68.88	312	eP	50	24.60	0.1	CCB	2.88	22</					

20d 09h

39.171 N \pm 9.5km 27.491 E \pm 37.5km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.5 (ISK).

IZM 0.79 193 ePg 35 20.60 0.0
 EDC 1.21 14 iSg 35 33.00 0.1
 BNT 1.23 15 iPn 35 27.90 -0.1
 KGT 1.29 354 iPn 35 29.00 0.0
 S.D. = 0.2 on 4 of 4 obs.

? OCT 20, 1990 10h 00m 51.11 \pm 1.30s
 39.114 N \pm 7.9km 27.611 E \pm 16.7km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.0 (ISK).

IZM 0.77 201 ePg 01 06.10 0.0
 EZN 1.22 306 ePn 01 14.00 0.2
 BNT 1.26 11 iPn 01 14.90 0.3
 KGT 1.36 350 iPn 01 15.50 -0.5
 S.D. = 0.6 on 4 of 4 obs.

OCT 20, 1990 10h 01m 31.25 \pm 0.21s
 7.729 S \pm 4.6km 74.413 W \pm 5.2km
 DEPTH = 162.0km (4 depth phases)
 5.0mb (34 obs.)

PERU-BRAZIL BORDER REGION (112)

PT10 5.00 210 iP 02 45.50 -0.2
 TUNG 7.45 327 P 03 16.50 -2.2
 VC1 8.09 330 eP 03 26.20 -1.2
 QTO 8.53 331 eP 03 33.50 0.3
 CAYA 8.54 335 P 03 21.50 -11.8X
 OUR 8.56 331 Pd 03 33.30 -0.2
 YANA 8.63 331 eP 03 34.00 -0.5
 COTA 8.92 334 eP 03 38.20 -0.2
 ARE 9.14 162 eP 03 40.00 -1.1
 LPB 10.71 145 P 04 00.00 -1.8
 CNCB 10.99 146 P 04 05.00 -0.7
 CCH 12.53 141 P 04 25.10 -0.4
 SIV 15.41 123 P 05 01.20 -0.4
 SDV 16.93 13 eP 05 23.00 2.7
 DVD 17.95 333 iPc 05 26.80 -5.1X
 TOV 18.00 15 eP 05 32.90 0.4
 S 08 45.90

GUAC 19.17 22 eP 05 49.60 4.6X
 MORO 19.45 18 eP 05 51.10 3.3X
 BAD 27.02 109 eP 07 01.00 0.6
 SOB1 33.18 95 eP 07 05.30 -1.4
 S 08 28.60 166km

PDCR 35.05 101 eP 08 09.40 -1.2
 BLA 45.06 353 ePd 09 33.30 0.7
 1.1s 160.76nm 5.5mb
 TUL 47.84 336 iP 09 54.00 -0.4
 1.0s 76.30nm 5.3mb

SIO 47.91 336 eP 09 54.50 -0.4
 CLE 49.41 353 iP 10 06.60 0.2
 ALO 52.12 326 eP 10 26.00 -1.3
 1.0s 35.00nm 5.0mb

ANMO 52.13 326 P 10 27.00 -0.3
 GLD 55.17 331 P 10 50.50 1.1
 1.1s 86.79nm 5.5mb
 GOL 55.20 331 P 10 48.50 -1.3
 1.2s 28.69nm 5.0mb

TPC 57.32 319 eP 11 05.00 0.4
 PLM 57.39 318 eP 11 06.00 0.7
 PEC 57.91 318 P 11 08.50 -0.3
 RVR 58.12 318 eP 11 10.00 -0.1
 GSC 58.55 320 eP 11 14.00 0.8
 MWC 58.71 318 eP 11 15.00 0.6
 SBB 58.83 319 eP 11 14.00 -1.2
 CLC 59.37 320 eP 11 19.00 0.2
 BW06 59.59 331 P 11 19.00 -1.4
 1.4s 65.75nm 5.3mb

ISA 59.84 319 eP 11 22.00 0.0
 FRI 61.44 320 eP 11 31.80 -0.9
 LLA 62.02 319 eP 11 36.70 0.1
 PRS 62.13 318 eP 11 38.00 0.6
 CMB 62.49 320 eP 11 39.90 0.2
 SCH 62.64 5 eP 11 41.00 0.6
 LRM 63.24 331 eP 11 44.40 -0.4

ORV 64.09 321 P 11 50.00 -0.2
 pP 12 28.60 163km
 MIN 64.62 322 eP 11 52.70 -1.1
 WDC 65.34 321 eP 11 56.30 -1.8
 SES 66.02 335 iPd 12 02.00 -0.4
 1.3s 248.00nm 5.9mb
 FFC 66.37 343 iPd 12 03.80 -0.7
 1.1s 50.00nm 5.3mb
 NEW 67.22 331 P 12 09.50 -0.5
 EDM 69.10 336 iPd 12 20.60 -0.9
 1.4s 315.00nm 5.9mb
 PNT 69.15 330 ePd 12 22.00 0.1
 0.8s 51.00nm 5.4mb
 LIC 70.58 81 P 12 30.20 -1.0
 LKO 70.66 77 Pd 12 30.30 -1.4
 0.4s 4.50nm 4.6mb
 PGC 70.68 328 eP 12 32.00 0.9
 KIC 70.88 81 Pd 12 32.24 -0.8
 0.6s 6.50nm 4.6mb
 S 21 34.00

YKA 76.52 342 eP 13 03.70 -0.9
 0.8s 10.40nm 4.6mb
 TOL 80.16 47 iPc 13 26.50 1.6
 1.1s 50.63nm 5.2mb
 SPA 82.32 180 iPd 13 37.70 1.8
 1.0s 23.50nm 4.9mb

EPF 84.25 45 eP 13 46.60 0.7
 1.4s 56.65nm 5.2mb
 LPF 84.76 40 eP 13 47.90 -0.4
 0.9s 13.10nm 4.7mb
 MFF 84.92 42 eP 13 49.10 0.0
 1.3s 43.30nm 5.1mb

GRR 84.98 40 eP 13 49.00 -0.4
 1.2s 32.75nm 5.0mb
 LFF 85.05 44 eP 13 49.70 -0.1
 1.0s 32.00nm 5.1mb
 LPD 85.29 44 eP 13 50.90 -0.1
 1.2s 38.70nm 5.1mb

FLN 85.33 40 eP 13 50.70 -0.4
 1.0s 20.00nm 4.9mb
 LDF 85.51 40 eP 13 51.70 -0.3
 1.2s 23.80nm 4.9mb
 RJF 85.68 43 eP 13 52.60 -0.3
 1.2s 35.70nm 5.1mb

CAF 85.95 44 eP 13 54.30 0.0
 1.2s 20.85nm 4.8mb
 INK 86.26 341 eP 13 55.00 -0.3
 MAF 86.62 43 eP 13 57.40 -0.2
 1.2s 17.85nm 4.8mb

BGF 86.90 42 eP 13 58.70 -0.2
 1.2s 26.80nm 5.0mb
 AVF 87.29 42 eP 14 00.00 -0.7
 SSF 87.46 42 eP 14 00.80 -0.7
 SMF 87.58 42 eP 14 01.50 -0.6
 MBC 87.81 350 ePd 14 03.70 1.0
 1.0s 90.00nm 5.7mb

TOA 88.40 333 eP 14 06.30 0.5
 DOU 88.88 39 P 14 07.50 -0.7
 LPL 89.30 44 eP 14 10.90 0.3
 0.9s 10.65nm 4.8mb
 LPG 89.31 44 eP 14 11.00 0.3
 0.9s 11.45nm 4.9mb

PMR 89.57 333 e(P) 14 11.00 -0.2
 BSF 89.81 42 eP 14 12.00 -0.8
 FBA 90.00 336 P 14 13.40 0.3
 pP 14 53.40 158km
 CDF 90.24 41 eP 14 13.90 -0.8
 IMA 92.68 336 e(P) 14 25.40 -0.2
 1.8s 31.60nm 5.2mb

BCAO 93.50 86 iPc 14 31.50 1.1
 0.6s 4.00nm 4.8mb
 NB2 94.58 29 P 14 35.00 0.6
 1.2s 13.20nm 5.1mb
 HFS 95.70 30 ePKP 14 39.60 0.2
 0.5s 0.80nm 4.4mb

ZST 96.71 42 eP 14 45.20 1.0
 ASPA 138.30 221 ePKP 20 32.60 -7.2X
 0.6s 4.30nm
 WB5 140.56 226 ePKP 20 37.90 -6.0X
 WMO 140.79 21 PKP 20 44.80 1.1
 BJI 146.46 345 PKPd 20 55.00 1.6
 BTO 147.03 354 PKP 20 57.00 2.5
 MTN 147.41 231 ePKP 20 57.00 1.4
 0.4s 53.00nm
 MBL 148.06 206 ePKP 21 00.00 3.5X
 0.4s 9.00nm

NANU 148.36 198 ePKP 21 01.10 4.2X
 0.4s 5.00nm
 TIY 149.51 349 PKPc 21 04.00 5.6X
 TIA 149.75 341 ePKP 21 00.00 1.3
 GKN 151.74 42 PKP 21 03.50 1.3
 GBA 151.74 76 PKPd 21 02.80 0.6
 0.6s 2.30nm
 HYB 151.95 67 ePKP 21 03.50 1.0
 e 21 10.00
 e 21 19.50
 KKN 152.30 41 PKP 21 04.10 1.0
 DMN 152.31 42 PKP 21 04.20 1.1
 PKI 152.53 42 PKP 21 04.10 0.6
 SSE 152.56 330 PKPc 21 11.00 8.0X
 GUN 152.61 40 PKP 21 04.70 1.0
 NJ2 152.83 335 PKPc 21 11.00 7.7X
 CHG 167.23 30 ePKP 21 21.00 1.6
 e 22 26.10
 S.D. = 0.9 on 99 of 110 obs.

OCT 20, 1990 10h 08m 51.43 \pm 0.70s
 37.097 N \pm 7.9km 103.668 E \pm 7.9km
 DEPTH = 10.0km (geophysicist)
 GANSU PROVINCE, CHINA (322)
 ML 4.3 (BJI).

LZH 1.02 172 Pg 09 11.00 0.2
 Sg 09 24.50
 GTA 3.81 308 Pn 09 51.40 -0.2
 Pg 10 02.00
 Sg 10 46.40
 XAN 5.26 124 Pn 10 12.20 0.2
 N 10s 0.90um
 E 10s 0.90um

Pg 10 26.00
 Sg 11 36.00
 BTO 6.06 53 Pg 10 47.20 23.8X
 Sg 12 04.60
 CD2 6.17 179 Pg 10 39.80 14.9X
 Sg 10 59.40
 TIY 7.01 82 ePn 10 35.80 -0.8
 Pg 10 59.40
 HHC 7.20 56 ePn 10 41.60 2.2
 Pg 11 03.00
 TIA 10.85 91 eP 11 28.80 -1.0
 GYA 10.91 166 P 11 30.00 -0.7
 S 13 31.00
 WMO 13.88 304 P 12 10.00 -0.5
 Z 12s 0.30um
 sP 12 20.00

SSE 15.69 107 eP 12 40.00 5.9X
 CHTO 18.68 194 P 13 13.50 1.7
 WB5 63.64 148 eP 19 23.90 -1.1
 S.D. = 1.3 on 10 of 13 obs.

% OCT 20, 1990 10h 43m 17.97 \pm 0.86s
 37.061 N \pm 8.3km 103.610 E \pm 10.6km
 DEPTH = 10.0km (geophysicist)
 GANSU PROVINCE, CHINA (322)
 ML 3.9 (BJI).

LZH 0.99 169 iPg 43 37.50 0.6
 Sg 43 51.00
 GTA 3.80 309 Pn 44 17.90 0.0
 Pg 44 28.20
 Sg 45 12.80
 XAN 5.28 123 Pn 44 38.50 -0.3
 Pg 44 56.50
 CD2 6.14 179 Pg 45 16.20 25.3X
 TIY 7.06 82 ePg 45 25.60 21.7X
 HHC 7.26 56 ePn 45 07.00 0.2
 Pg 45 29.80
 Sg 47 03.80
 GYA 10.88 165 eP 45 56.40 -0.5
 S.D. = 0.6 on 5 of 7 obs.

? OCT 20, 1990 11h 02m 29.27 \pm 1.92s
 36.832 N \pm 23.2km 27.423 E \pm 31.5km
 DEPTH = 10.0km (geophysicist)
 DODECANESE ISLANDS (369)
 MD 3.9 (ATH).

ARG 0.84 137 ePb 02 45.00 -0.4
 SMG 0.99 332 ePb 02 48.50 0.5
 IZM 1.57 355 ePn 02 56.60 -0.6
 KSL 1.88 112 ePn 03 02.30 0.6
 KHL 2.24 48 ePn 03 13.20 6.2X
 BNT 3.54 6 ePn 03 34.60 9.2X

MFT 3.95 358 ePn 03 41.00 9.7X
S.D. = 1.1 on 4 of 7 obs.

% OCT 20, 1990 11h 12m 34.10 ± 3.21s
40.130 N ± 28.7km 28.187 E ± 6.7km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.5 (ISK).

KCT 0.18 47 iPg 12 36.40 -1.7
BNT 0.30 318 iPg 12 40.40 -0.1
EDC 0.33 311 ePg 12 40.80 -0.1
KGT 0.75 296 iPn 12 47.90 -0.9
MFT 0.95 314 iPn 12 53.40 1.1
CTT 1.03 10 iPn 12 53.90 0.3
HRT 1.32 58 ePn 12 59.90 1.3
S.D. = 1.3 on 7 of 7 obs.

% OCT 20, 1990 12h 03m 25.60 ± 1.68s
38.875 N ± 11.2km 16.383 E ± 21.2km
DEPTH = 33.0km (normal)

SOUTHERN ITALY (390)

CZI 0.39 331 P 03 34.60 0.0
ROI 0.71 12 P 03 38.40 -0.8
TDS 0.78 357 P 03 40.70 0.5
ATN 1.01 226 P 03 43.60 0.0
MMN 1.06 343 P 03 44.60 0.5
ORI 1.19 2 P 03 46.50 0.5
MGR 1.41 333 P 03 48.50 -0.7
S.D. = 0.7 on 7 of 7 obs.

* OCT 20, 1990 13h 10m 19.79 ± 0.83s
29.670 S ± 9.0km 178.946 W ± 16.4km
DEPTH = 323.6 ± 9.6 km
5.0mb (4 obs.)

KERMADEC ISLANDS (178)

RAO 0.99 65 P 11 03.00 -0.3
HBZ 8.23 195 eP 12 21.70 4.6X
PUZ 8.70 195 eP 12 23.30 0.5
NOZ 9.27 195 eP 12 31.50 1.8
NGZ 10.50 204 eP 12 48.20 3.3X
PGZ 11.60 198 eP 13 00.10 2.0
MNG 11.83 201 eP 13 01.30 0.3
KIW 12.24 203 eP 13 05.50 -0.3
MTW 12.32 200 eP 13 06.40 -0.4
CAW 12.41 202 eP 13 07.40 -0.5
WDW 12.58 201 eP 13 09.40 -0.5
MOW 12.64 200 eP 13 10.40 -0.3
MRW 12.64 202 eP 13 10.30 -0.3
TCW 12.77 204 eP 13 10.00 -2.2
THZ 13.75 206 eP 13 24.40 0.2
KHZ 14.09 203 P 13 27.20 -0.8
DZM 15.16 297 iPc 13 41.00 0.9
WB5 43.25 272 eP 17 52.00 0.1
MAT 77.18 326 eP 21 38.00 -1.6
TNP 88.69 44 P 22 37.00 -0.4
SUF 143.16 341 ePKP 29 11.00 -5.1X
NUR 145.35 340 iPKP 29 19.00 -0.9
NB2 147.90 351 PKP 29 25.90 1.8
HFS 148.36 348 ePKP 29 25.70 0.9
BCAO 149.94 217 iPKPc 29 35.50 6.8X
S.D. = 1.2 on 21 of 25 obs.

? OCT 20, 1990 13h 29m 50.80 ± 1.21s
24.486 N ± 11.3km 121.697 E ± 18.4km

DEPTH = 33.0km (normal)
TAIWAN (244)

TWC 0.18 49 iPd 29 57.20 0.0
TWZ 0.62 350 ePd 30 03.60 0.5
ANP 0.72 347 eP 30 04.00 -0.5
TWK 1.64 223 ePd 30 17.00 0.0
S.D. = 0.7 on 4 of 4 obs.

% OCT 20, 1990 13h 31m 24.38 ± 0.85s
39.029 N ± 8.3km 28.668 E ± 7.8km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 3.1 (ISK).

KHL 0.97 136 iPg 31 42.70 -0.2
ALT 1.12 88 ePn 31 45.30 -0.2
IZM 1.27 241 iPn 31 48.10 0.1
BNT 1.45 337 iPn 31 49.00 -0.8
IZI 1.45 25 ePn 31 49.00 -1.7
EDC 1.46 335 iPn 31 49.00 -0.9
KGT 1.77 324 iPn 31 54.40 -0.8
HRT 1.95 23 ePn 31 59.00 1.1
EZN 1.98 294 ePn 32 00.00 1.7
MFT 2.05 329 ePn 31 57.30 -2.1
ISK 2.06 8 ePn 32 01.40 2.0
CTT 2.12 355 ePn 32 02.00 1.6
S.D. = 1.5 on 12 of 12 obs.

OCT 20, 1990 13h 31m 38.99 ± 0.46s
43.858 N ± 4.3km 20.349 E ± 4.7km
DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)
MD 4.2 (TRI), 3.7 (VIE). Felt at
Ivanjica.

PLE 0.87 233 iPg 31 55.00 -0.8
BEO 0.97 4 iPg 31 58.70 1.4
IVA 1.04 199 iPg 31 57.20 -1.5
PVY 1.29 192 iPg 32 13.00 -1.2
NKY 1.44 224 ePg 32 04.90 -0.3
BRY 1.63 235 ePg 32 08.20 0.3
TTG 1.63 210 ePg 32 08.00 0.2
BDV 1.93 216 ePn 32 30.00 0.8
BZS 1.98 27 iPc 32 11.00 -1.8
ULC 2.06 203 ePn 32 15.50 1.4

BLV 2.44 293 Pn 32 26.10 6.6X
HVAR 2.92 258 iPn 32 28.20 1.9
DRA 2.92 72 eP 32 29.00 2.6
VAY 3.02 146 ePn 32 25.50 -2.2
TNR 3.32 56 ePc 32 34.00 1.9
CMP 3.64 66 ePd 32 50.00 13.5X
PTJ 3.73 305 e(Pn) 32 37.50 -0.4

PSZ 4.07 356 iP 32 41.30 -1.4
SRO 4.20 341 i(Pn) 32 43.40 -1.1
MLR 4.31 66 ePd 32 46.00 -0.2
BMR 4.41 29 ePd 33 11.00 23.6X
RIY 4.51 291 ePnd 32 49.40 0.5
CEY 4.62 296 e(Pn) 32 50.10 -0.3

LJU 4.67 300 ePn 32 51.50 0.3
DUI 4.86 245 P 32 56.50 2.5
ZST 4.89 334 i(Pn) 32 53.50 -0.8
VRI 4.96 64 ePd 32 54.50 -0.8
TRI 5.04 294 ePn 32 56.60 0.2

VOY 5.07 298 iSg 34 21.90
VKA 5.22 329 ePnc 32 56.80 -0.1
SDI 5.27 248 P 33 02.00 2.3
SPC 5.33 359 eP 33 01.40 0.7
ASS 5.65 265 P 33 04.00 -1.1
MNS 5.80 258 P 33 05.00 -2.2
FVI 6.00 300 P 33 09.70 -0.2
CRE 6.09 271 P 33 11.00 -0.3
KHC 7.04 321 ePn 33 24.00 -0.7
SOTA 7.24 301 iPnd 33 27.80 0.2
PRU 7.31 329 ePn 33 45.00 16.7X
S.D. = 1.3 on 34 of 39 obs.

? OCT 20, 1990 13h 34m 45.74 ± 1.38s
39.126 N ± 8.2km 27.650 E ± 17.3km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.6 (ISK).

IZM 0.79 203 ePg 35 01.10 0.0
EZN 1.24 305 ePn 35 09.00 0.2
BNT 1.25 10 iPn 35 09.30 0.4
KGT 1.35 349 iPn 35 09.90 -0.6
S.D. = 0.8 on 4 of 4 obs.

? OCT 20, 1990 15h 03m 21.82 ± 5.70s
41.442 N ± 42.4km 28.731 E ± 12.1km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 1.9 (ISK).

CTT 0.37 218 iPg 03 29.60 0.1
ISK 0.45 147 ePg 03 31.00 0.0
BNT 1.25 210 iPn 03 44.80 -0.2
KGT 1.47 228 iPn 03 48.30 0.0
S.D. = 0.2 on 4 of 4 obs.

* OCT 20, 1990 15h 13m 30.28 ± 0.59s
28.701 S ± 7.4km 176.517 W ± 11.5km
DEPTH = 50.2km (3 depth phases)
5.0mb (4 obs.)

KERMADEC ISLANDS REGION (177)

RAO 1.34 246 P 13 59.50 6.5X
PUZ 10.31 204 P 15 56.90 -1.5
NOZ 10.88 203 eP 16 04.00 -2.1
MNG 13.58 207 P 16 37.60 -4.5X
MTW 14.04 206 P 16 49.00 1.0
BLW 14.23 205 P 16 51.40 0.9
MOW 14.36 206 P 16 52.00 -0.2
MRW 14.41 208 eP 17 02.00 9.1X
LTZ 16.72 210 P 17 22.90 0.4
DZM 16.74 289 iPc 17 24.20 1.2
BKM 17.78 305 iPc 17 35.10 -0.7
BRS 27.10 265 iPc 19 12.10 1.7
CAN 29.87 248 eP 19 37.80 2.5
BWA 30.32 250 eP 19 39.50 0.2
ASPA 44.53 265 iPd 21 37.50 -1.5
WB5 45.36 270 eP 21 44.40 -1.2
MAW 74.34 200 eP 25 10.00 6.1X
MAT 77.61 324 iPc 25 19.90 -2.8
TNP 86.53 43 P 26 09.50 0.1
MDJ 87.97 325 eP 26 15.50 -0.3
SNY 89.32 320 Pd 26 21.00 -0.5
CN2 89.59 322 Pc 26 22.20 -1.3
TIA 89.78 312 eP 26 24.50 -0.1
ALO 91.50 51 eP 26 33.20 0.3

20d 15h

	1.0s	6.75nm	5.0mb	
ANMO	91.51	51 P	26 48.00	50km
		pP	26 48.20	50km
BJI	92.63	315 eP	26 37.50	-0.1
	0.8s	20.00nm		5.6mb
CHG	94.24	289 eP	26 46.50	1.0
NB2	147.25	353 PKP	33 07.90	1.3
	0.9s	15.30nm		
UPP	147.39	347 iPKP	33 07.60	0.8
HFS	147.81	350 ePKP	33 08.00	0.5
	0.7s	17.40nm		
BCAO	151.95	213 iPKPc	33 24.50	9.2X
	0.6s	7.00nm		
		id	33 34.90	
		id	36 50.00	
MML	152.31	286 ePKP	33 23.00	7.7X
MKT	152.48	283 ePKP	33 23.00	7.4X
RMN	152.90	281 ePKP	33 23.50	7.3X
KSP	155.86	340 ePKP	33 28.50	9.0X
		e	33 45.40	

S.D. = 1.3 on 26 of 35 obs.

? OCT 20, 1990 16h 29m 20.47±8.95s
30.912 S ±87.4km 69.919 E ±62.8km
DEPTH = 120.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

RTBS	0.85	152 eP	29 41.30	0.0
		S	29 55.00	
RTCB	1.12	121 ePc	29 44.00	-0.1
		eS	30 02.20	
RTLL	1.31	109 iPd	29 46.20	0.0
		eS	30 06.50	
RTCV	1.51	129 ePc	29 48.50	0.0

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

* OCT 20, 1990 16h 49m 22.00±2.05s
39.722 N ±12.3km 23.799 E ±15.8km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 2.5 (THE).

OUR	0.63	13 iPd	49 34.42	-0.2
		eS	49 44.96	
LIT	1.08	291 iPc	49 42.04	-0.2
		eS	49 56.68	
SOH	1.15	343 ePc	49 43.24	-0.3
		eS	50 00.24	
AGG	1.34	239 ePd	49 46.60	0.0
		eS	50 06.76	
SRS	1.40	354 ePd	49 47.80	0.2
KNT	1.59	335 ePc	49 51.12	0.8
		eS	50 14.56	
GRG	1.63	320 iPd	49 51.64	0.8
		eS	50 13.44	
VAY	1.85	330 ePn	49 53.00	-1.0

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

& OCT 20, 1990 16h 54m 38.00s
37.017 N 118.337 W
DEPTH = 1.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 3.3 (BRK).

FRI	1.10	269 iPc	54 58.00	-1.4
		iS	55 12.50	
TNP	1.39	40 iPc	55 03.00	-1.5
PKEM	1.72	237 eP	55 09.20	0.0
CMB	1.92	303 iPc	55 12.20	0.0
		iS	55 37.00	
PHAM	2.04	235 eP	55 13.20	-0.7
PR1	2.07	246 eP	55 14.20	-0.2
		iS	55 39.30	
LLA	2.13	260 eP	55 15.20	0.0
ABL	2.28	199 eP	55 18.00	0.4
BCH	2.31	218 eP	55 17.40	-0.5
SAO	2.50	265 eP	55 20.10	-0.5
PRS	2.53	255 eP	55 20.60	-0.4
ARN	2.57	278 eP	55 22.00	0.4
MHC	2.66	278 eP	55 23.50	0.6

13 obs. associated

* OCT 20, 1990 18h 47m 05.53±1.35s
21.699 S ±13.1km 69.009 W ±19.6km
DEPTH = 42.7 ± 15.7 km
4.4mb (1 obs.)

NORTHERN CHILE (123)			
ANT	2.38	213 iPd	47 43.00 0.1
		iS	48 16.20
CNCB	4.96	11 Pc	48 20.50 0.5
CCH	5.07	33 P	48 26.30 4.9X
LPB	5.21	10 P	48 25.60 2.2
	1.0s	304.00nm	5.6mb X
ZOBO	5.47	9 P	48 25.00 -2.2
		S	49 42.00
SIV	9.42	54 iPd	49 21.20 -0.5
MDZ	11.14	179 eP	49 52.00 6.7X
PPD	16.43	94 eP	51 02.30 7.5X
KIC	68.85	74 (P)	58 08.80 0.6
TNP	74.73	322 P	58 43.00 -0.1
YKA	91.34	341 eP	00 07.20 -0.3
	0.7s	1.30nm	4.4mb

S.D. = 1.6 on 8 of 11 obs.

& OCT 20, 1990 20h 21m 25.87s
58.989 N 152.453 W
DEPTH = 76.3km
KODIAK ISLAND REGION
<AGS-P>.

XLV	0.60	39 eP	21 39.93 -0.5
		eS	21 49.92
AUE	0.60	308 eP	21 39.89 -0.5
AUI	0.61	305 eP	21 40.14 -0.4
CDD	0.62	265 eP	21 39.92 -0.7
		eS	21 50.43
OPT	0.78	329 iP	21 41.64 -0.7
		eS	21 53.56
HOM	0.79	31 eP	21 42.09 -0.3
		eS	21 54.19
CNPM	0.83	49 iP	21 42.01 -0.9
		eS	21 53.67
MCNL	0.99	282 eP	21 43.85 -1.0
BRLK	1.12	45 eP	21 45.14 -1.3
		eS	21 59.84
PDB	1.20	313 iP	21 46.23 -1.2
		eS	22 00.76
NNL	1.21	29 iP	21 47.42 -0.2
KDC	1.25	181 eP	21 47.03 -1.0
RED	1.44	354 eP	21 49.74 -1.0
RSO	1.49	354 eP	21 50.59 -0.9
RDT	1.59	1 iP	21 51.58 -1.2
SEW	1.89	53 eP	21 53.83 -2.9
SLKM	1.90	36 eP	21 55.41 -1.4
SPU	2.21	5 eP	22 00.09 -1.1
CKL	2.22	1 eP	22 00.42 -0.9
BGL	2.28	1 eP	22 01.48 -0.7
CRP	2.29	4 eP	22 01.72 -0.7
CGLM	2.34	5 eP	22 02.16 -0.8
NCG	2.43	3 eP	22 03.23 -1.0
SUA	2.63	18 eP	22 05.82 -1.2
PMS	2.69	31 eP	22 06.54 -1.2
KNIM	2.75	58 eP	22 06.66 -2.0
SKT	3.04	8 eP	22 10.99 -1.6
GHO	3.30	31 eP	22 14.29 -2.0
SML	3.49	34 eP	22 15.45 -3.5
CUT	3.59	16 eP	22 17.51 -2.8
VZW	3.62	52 eP	22 18.49 -2.2

31 obs. associated

? OCT 20, 1990 20h 39m 47.57±1.05s
31.679 S ±38.7km 69.138 W ±22.0km
DEPTH = 120.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTBS	0.27	274 iPc	40 04.80 0.0
RTCB	0.35	56 iPd	40 05.10 0.0
		eS	40 16.20
ZON	0.41	71 eP	40 05.30 0.0
		eS	40 18.30
RTCV	0.54	110 ePc	40 06.10 0.0
		S	40 18.80
RTLL	0.67	59 iPc	40 07.00 0.0
MDZ	1.23	169 eP	40 29.20 16.9X
		e	40 31.40

S.D. = 0.0 on 5 of 6 obs.

& OCT 20, 1990 21h 05m 23.23s
59.651 N 153.028 W
DEPTH = 101.3km
SOUTHERN ALASKA (2)
<AGS-P>.

OPT	0.10	271 eP	05 36.75 0.7
		eS	05 47.68
AUE	0.34	211 eP	05 37.51 -0.8
AUH	0.36	216 eP	05 37.98 -0.6
AUI	0.38	213 eP	05 37.98 -0.6
PDB	0.61	284 eP	05 39.29 -0.9
XLV	0.69	106 eP	05 40.18 -0.8
HOM	0.70	89 iP	05 40.59 -0.4
		eS	05 53.78
CDD	0.79	204 iP	05 40.83 -1.1
MCNL	0.82	236 eP	05 41.15 -1.0
RSO	0.83	9 eP	05 41.66 -0.8
CNPM	0.92	97 iP	05 42.27 -0.9
NNL	0.96	65 eP	05 43.63 0.1
RDT	0.98	18 eP	05 42.95 -0.9
		eS	05 57.83
BRLK	1.09	83 eP	05 43.96 -1.1
		eS	05 59.99
NKA	1.41	38 eP	05 50.56 1.7
CKL	1.59	12 eP	05 50.49 -0.7
SPU	1.61	17 iP	05 50.69 -0.7
		eS	06 12.01
BGL	1.65	11 eP	05 51.54 -0.4
SLKM	1.65	57 eP	05 50.91 -0.9
CRP	1.68	15 eP	05 51.92 -0.4
NCG	1.81	13 eP	05 53.39 -0.6
SEW	1.86	74 eP	05 53.05 -1.4
SUA	2.14	31 iP	05 58.01 -0.3
PMS	2.35	46 eP	05 59.73 -1.3
PLRM	2.74	43 eP	06 04.97 -1.2
MTU	2.74	81 eP	06 04.59 -1.6
KNIM	2.75	73 iP	06 04.09 -2.3
GHO	2.93	42 eP	06 07.45 -1.5
		eS	06 40.08
CUT	3.07	25 eP	06 09.92 -0.8
SML	3.16	45 eP	06 10.07 -2.0
GLI	3.20	65 eP	06 09.85 -2.7
VZW	3.51	64 eP	06 14.58 -2.2
VLZ	3.64	63 eP	06 15.55 -2.9
KLU	3.96	59 eP	06 20.69 -2.3
TOA	4.16	51 eP	06 23.96 -1.7
RND	4.27	26 eP	06 25.58 -1.6
SDG	4.64	48 eP	06 31.61 -0.6
GLB	4.89	65 eP	06 33.30 -2.5
BALM	5.49	71 eP	06 41.97 -2.1

39 obs. associated

* OCT 20, 1990 21h 56m 32.73±0.65s
21.479 N ±10.8km 122.221 E ±15.9km
DEPTH = 33.0km (normal)
4.3mb (2 obs.)

TAIWAN REGION (243)			
TWG	1.71	322 ePc	56 58.60 -2.0
TWK	2.40	318 eP	57 11.20 0.7
TWO	3.06	336 ePc	57 20.80 0.9
MAT	20.47	39 (P)	01 10.00 -0.3
LZH	21.65	316 eP	01 23.00 0.5
CHG	22.01	267 eP	01 29.90 3.9X
WB5	42.79	163 eP	04 28.60 -0.5
QIS	45.10	157 iPc	04 48.00 0.2
ASPA	46.29	165 eP	04 57.40 0.2
	1.1s	7.70nm	4.6mb
SLL	80.40	332 eP	08 42.70 0.5
	0.5s	1.10nm	4.1mb
		S.D. = 1.0 on 9 of 10 obs.	
& OCT 20, 1990 22h 12m 31.86s 66.138 N 151.274 W DEPTH = 10.0km (geophysicist) ALASKA (676) <AGS-P>.			
IMA	0.98	267 eP	12 50.61 0.0
		eS	13 04.37
NEA	1.82	149 eP	13 02.73 -0.7
		eS	13 27.27
FBA	1.91	129 eP	13 04.57 -0.2
		eS	13 29.98
GLM	1.99	124 eP	13 04.71 -1.2
		eS	13 32.62
CCB	2.09	134 eP	13 06.99 -0.3
		eS	13 35.22
WRH	2.14	140 eP	13 06.39 -1.7
FYU	2.47	77 eP	13 12.71 -0.1
HDA	2.51	132 eP	13 14.07 0.7

8 obs. associated

* OCT 20, 1990 23h 55m 22.80± 0.80s
52.029 N ±16.4km 169.371 W ± 9.1km
DEPTH = 33.0km (normal)
4.7mb (4 obs.)

FOX ISLANDS, ALEUTIAN ISLANDS (9)

ADK	4.53	271	eP	56	32.40	1.7
KDC	11.27	53	e(P)	58	00.00	-4.4X
TTA	13.04	28	e(P)	58	30.00	1.8
IMA	16.15	23	e(P)	59	10.50	1.8
FBA	17.01	32	eP	59	17.70	-1.7
INK	23.63	33	eP	00	31.00	-0.3
YKA	30.47	48	eP	01	34.90	0.7
	0.8s		2.00nm		4.0mb	
MBC	30.85	21	eP	01	36.00	-1.5
	0.4s		3.00nm		4.4mb	
NEW	33.10	75	eP	01	58.00	0.5
BW06	40.47	79	eP	03	02.50	2.6X
CN2	43.10	286	eP	03	19.60	-1.6
GOL	44.83	80	eP	03	36.00	0.4
SSE	53.83	276	Pd	04	45.50	1.1
	1.0s		12.00nm		4.9mb	
XAN	59.20	287	eP	05	20.50	-2.3
BLA	61.15	66	e(P)	05	51.00	14.9X
JSC	62.76	69	e(P)	05	46.00	-0.9
LHS	62.88	68	e(P)	05	48.00	0.4
CD2	64.48	288	eP	05	58.80	0.5
GVA	66.00	283	P	06	08.40	0.2
HFS	68.16	358	eP	06	19.40	-1.8
	0.6s		9.40nm		5.1mb	
KMI	69.35	285	eP	06	30.00	0.7
KSP	77.39	356	eP	07	15.70	0.1
PRU	78.31	357	eP	07	20.70	0.1
KHC	79.19	358	eP	07	26.00	0.5
ZST	80.00	356	e(P)	07	29.50	-0.3

S.D. = 1.2 on 22 of 25 obs.

* OCT 21, 1990 00h 44m 45.40s
36.725 N 122.338 W
DEPTH = 7.0km

CENTRAL CALIFORNIA (39)
<BRK>. ML 2.7 (BRK).

GCC	0.41	42	ePd	44	52.00	-1.7
			iS	44	57.50	
SAO	0.72	87	iP	44	58.40	-1.4
PCC	0.77	357	ePd	44	59.00	-1.7
			eS	45	08.50	
MHC	0.83	42	eP	45	00.50	-1.3
			iS	45	11.50	
PRS	0.87	116	eP	45	03.00	0.5
			eS	45	14.50	
ARN	0.90	46	eP	45	01.30	-1.6
BRK	1.15	3	eP	45	09.50	2.4
			eS	45	19.00	
BKS	1.15	4	eP	45	09.50	2.3
			e(S)	45	19.40	

B obs. associated

OCT 21, 1990 01h 57m 33.99± 1.26s
14.949 S ± 9.2km 166.738 E ± 7.2km
DEPTH = 47.1 ± 10.8 km
5.0mb (12 obs.) 4.4Msz (6 obs.)

VANUATU ISLANDS (186)

BKM	3.07	152	iPd	58	20.00	-1.1
PVC	3.16	152	iP	58	23.00	0.6
DZM	7.09	182	iPc	59	14.30	-3.6X
			iS	00	33.20	
HNR	8.61	309	P	59	45.00	6.1X
			S	01	41.00	
SVO	8.89	310	eP	59	43.00	0.2
			eS	01	27.00	
CTA	20.19	252	iPd	02	07.90	0.4
	1.1s		34.18nm		4.6mb	
			iS	06	03.00	
RMO	20.34	233	ePc	02	08.00	-1.1
COO	20.68	219	eP	02	13.50	0.8
STK	28.47	229	eP	03	34.30	7.5X
	1.8s		27.00nm		4.6mb	
WB5	31.24	256	eP	03	51.20	-0.4
ASPA	32.12	249	iPc	03	58.20	-1.1
	1.4s		5.90nm		4.2mb	
Z	21s		0.60um		4.3Msz	
GUMO	35.67	322	eP	04	24.00	-5.9X
	2	18s	0.19um		3.9Msz	

AFR	41.76	100	iP	05	21.30	0.7
	1.2s		100.00nm		5.4mb	
PPT	41.95	100	iP	05	23.10	0.9
	1.2s		115.00nm		5.5mb	
TVO	42.25	100	iP	05	25.50	0.8
	1.2s		135.00nm		5.6mb	
PMO	43.76	96	iP	05	48.40	11.4X
	1.2s		115.00nm			
VAH	44.00	97	iP	05	50.00	11.2X
	1.2s		70.00nm			
TPT	44.03	96	iP	05	50.40	11.3X
	1.2s		75.00nm			
RUV	44.24	97	iP	05	52.00	11.2X
	1.2s		95.00nm			
KAKJ	56.74	334	eP	07	21.20	5.8X
CHJJ	57.10	333	eP	07	23.70	5.6X
IIDJ	57.11	332	P	07	22.10	3.9X
MAT	57.86	333	eP	07	22.00	-1.4
	1.0s		8.00nm		4.8mb	
TSRJ	58.05	331	eP	07	27.80	3.1X
MTMJ	58.08	333	P	07	24.70	-0.3
BJI	72.11	321	eP	08	56.00	0.5
	1.1s		14.00nm		4.8mb	
CHG	74.70	295	eP	09	12.90	1.8
SPA	75.15	180	iPd	09	16.80	3.8X
	0.5s		36.11nm		5.6mb	
LZH	78.09	313	eP	09	32.00	2.1
	2.0s		36.00nm		5.0mb	
			pP	09	36.50	14kmX
MAW	81.49	202	eP	09	48.00	0.6
PMR	83.88	20	eP	09	59.50	-0.2
	0.6s		7.00nm		4.9mb	
IMA	85.99	15	eP	10	10.30	-0.1
	1.0s		9.60nm		5.0mb	
FBA	86.72	18	eP	10	12.50	-1.3
GUN	89.05	299	PKP	10	27.20	1.0
PKI	89.35	299	PKP	10	28.20	0.6
KKN	89.52	299	PKP	10	29.00	0.7
DMN	89.62	299	PKP	10	29.80	1.0
GKN	90.13	299	PKP	10	31.30	0.3
HFS	130.78	343	ePKP	16	43.10	1.8
	1.4s		44.60nm			
KHC	139.45	333	ePKP	17	01.00	2.9X
FVI	141.68	331	PKP	17	06.00	4.0X
SQTA	141.93	333	e(PKP)	17	01.50	-1.2
	1.1s		10.50nm			
PDCR	142.57	136	ePKP	16	53.20	-11.3X
			e	17	02.40	
CDP	142.58	337	ePKP	17	00.90	-2.8X
CTI	142.61	331	ePKP	17	02.50	-1.4
BSF	143.24	337	ePKP	17	03.00	-1.9
HAU	143.26	338	ePKP	17	03.00	-1.8
	1.0s		12.00nm			
Z	21s		0.08um		4.4Msz	
SOB1	143.58	130	ePKP	17	03.00	-3.3X
MDI	143.70	333	PKP	17	06.50	1.0
ARV	143.80	327	PKP	17	06.00	0.1
ORI	143.96	320	PKP	17	05.00	-1.2
VAI	144.04	333	PKP	17	04.50	-1.6
SFI	144.06	328	PKP	17	05.00	-1.2
PGD	144.16	329	PKP	17	05.50	-1.2
DUI	144.18	323	PKP	17	08.00	1.4
CRE	144.22	328	PKP	17	05.40	-1.3
ASS	144.24	327	PKP	17	04.90	-1.8
TDS	144.27	319	PKP	17	06.00	-0.7
SGO	144.37	321	PKP	17	05.80	-1.0
MME	144.43	330	PKP	17	06.60	-0.6
MGR	144.47	321	PKP	17	07.50	0.4
SDI	144.52	324	PKP	17	05.80	-1.4
AZI	144.55	325	PKP	17	06.50	-0.6
BDI	144.58	330	PKP	17	05.00	-2.2
BOB	144.59	332	PKPd	17	06.60	-0.6
FLN	144.68	345	ePKP	17	06.30	-0.8
	1.0s		34.00nm			
Z	20s		0.08um		4.5Msz	
MNS	144.70	326	PKP	17	06.10	-1.3
LDF	144.75	345	ePKP	17	06.60	-0.7
	0.8s		18.80nm			
LOR	144.77	340	ePKP	17	06.50	-0.9
	1.0s		40.00nm			
Z	21s		0.10um		4.6Msz	
PII	144.87	329	PKP	17	05.00	-2.6X
LBF	144.97	339	iPKPc	17	06.90	-0.9
	1.2s		61.00nm			
GRC	145.00	341	PKP	17	08.07	0.4
LSD	145.05	335	PKP	17	08.20	0.0
SSF	145.06	340	iPKPc	17	07.40	-0.5

RMP	145.08	325	PKP	17	06.80	-1.3
GRR	145.12	346	iPKPc	17	07.40	-0.5
	0.7s		40.80nm			
LPL	145.18	335	iPKPc	17	08.60	0.2
	1.0s		39.00nm			
PCP	145.18	332	PKP	17	07.48	-0.7
LPG	145.18	335	iPKPc	17	08.60	0.1
	0.9s		50.80nm			
RSP	145.26	334	PKP	17	07.99	-0.4
SMF	145.31	339	iPKPc	17	08.20	-0.1
	1.0s		60.00nm			
AVF	145.35	340	iPKPc	17	08.30	0.0
	0.9s		35.20nm			
CKI	145.39	332	PKPd	17	08.10	-0.4
LPF	145.50	345	iPKPc	17	08.70	0.2
	0.6s		37.90nm			
BNI	145.58	335	PKP	17	10.10	1.1
FIN	145.59	332	PKP	17	08.30	-0.6
RRL	145.64	334	PKP	17	09.12	-0.1
ROB	145.67	333	PKP	17	08.51	-0.6
BGF	145.72	340	iPKPc	17	09.70	0.7
	0.8s		40.30nm			
PZZ	145.84	334	PKP	17	08.51	-1.0
ENR	145.92	333	PKP	17	08.92	-0.6
STV	145.95	333	PKP	17	08.92	-0.7
IMI	145.97	332	PKP	17	09.94	0.3
PLDF	145.97	339	PKP	17	11.42	1.9
AGO	146.07	339	PKP	17	11.27	1.6
MAF	146.11	340	iPKPc	17	11.00	1.3
	0.9s		25.40nm			
TCF	146.17	341	iPKPc	17	10.80	1.0
	0.9s		26.20nm			
SBF	146.21	333	iPKPc	17	10.60	0.6
	0.8s		80.60nm			
PYM	146.38	339	PKP	17	12.32	2.1
LSF	146.42	341	iPKPc	17	11.30	1.1
PGF	146.49	330	ePKP	17	11.60	1.1
	0.9s		60.60nm			
MFF	146.59	343	iPKPc	17	12.00	1.6
	0.8s		73.90nm			
LBL	146.74	339	PKP	17	13.76	3.1X
FRF	146.79	333	iPKPc	17	12.60	1.8
	1.0s		56.00nm			
LRG	147.00	333	ePKP	17	13.40	2.3
BCAO	147.01	255	iPKPc	17	12.80	0.7
	0.6s		13.00nm			
LMR	147.03	333	ePKP	17	13.20	2.0
	0.9s		36.05nm			
RJF	147.27	341	iPKPc	17	14.20	2.7X
	0.7s		19.85nm			
Z	20s		0.08um		4.5Msz	

21d 03h

Salvador.						JFO	24.82	104	eP	48	12.50	3.3X	HFS	69.36	335	eP	34	05.50	-1.2	
QZA	1.20	303	iPd	27	41.10	-1.4	SOB1	28.75	77	eP	48	44.20	-0.6		0.5s	2.10nm		4.6mb		
LFU	1.42	308	eP	27	45.20	-0.1	PDCR	29.50	85	eP	48	50.90	-0.5	KIC	69.38	276	P	34	08.70	1.0
VSS	1.52	305	iPd	27	46.50	-0.2	LIC	67.63	76	Pc	53	41.36	-0.3	RJF	69.60	318	eP	34	08.60	0.2
TME	1.77	310	eP	27	50.00	0.1		0.8s	23.00nm		5.0mb			1.0s	10.00nm		4.9mb			
YPE	2.08	307	iPd	27	54.70	0.4	TIC	67.79	75	P	53	42.28	-0.4	LPO	69.64	317	eP	34	09.10	0.4
DVD	6.98	129	eP	29	02.80	0.9	KIC	67.94	76	Pc	53	43.56	0.0		0.8s	10.75nm		5.1mb		
OLY	22.76	353	eP	32	17.00	0.9		0.6s	51.00nm		5.5mb		TIC	69.66	276	P	34	10.70	1.3	
MEQ	23.85	338	iPd	32	28.00	1.3	LKO	68.36	72	Pc	53	45.44	-0.7	LIC	69.67	276	P	34	10.80	1.4
FVM	25.11	355	eP	32	39.00	0.3		0.6s	24.50nm		5.2mb		LFF	70.01	317	eP	34	11.20	0.3	
BLA	25.17	14	eP	32	41.10	1.8	YKA	87.19	341	eP	55	28.00	-0.2		1.0s	24.00nm		5.3mb		
	0.9s	32.77nm				4.8mb	LFF	88.68	42	eP	55	35.80	0.1	LKO	70.23	279	P	34	14.24	1.4
ANMO	27.63	326	eP	33	00.00	-2.1		0.8s	9.40nm		4.8mb		W85	71.76	112	eP	34	20.50	-1.5	
GOL	30.83	333	iP	33	31.00	0.4	LPO	88.85	42	eP	55	36.70	0.1	S.D. = 1.0 on 42 of 43 obs.						
	0.9s	15.15nm				4.7mb	BCAO	89.22	85	iPc	55	45.00	6.0X	OCT 21, 1990 04h 31m 19.90±0.41s						
PV09	31.71	327	eP	33	38.90	0.5		0.6s	3.00nm		4.4mb		38.908 N ± 3.4km 108.355 W ± 3.1km							
ARE	33.38	150	eP	33	53.00	-0.1	GRR	89.25	38	eP	55	37.80	-0.5	DEPTH = 10.0km (geophysicist)						
DAU	34.23	328	iP	34	01.00	0.8		0.7s	8.80nm		4.8mb		COLORADO (479)							
	1.0s	3.00nm				4.1mb	CAF	89.52	42	eP	55	39.90	0.1	ML 2.5 (NEIS). Felt (V) at						
ZOBO	34.97	145	P	34	07.20	0.2		0.8s	6.70nm		4.7mb		Palisade and (IV) at Clifton and							
BW06	35.18	332	iP	34	09.00	0.8	FLN	89.64	38	eP	55	39.70	-0.4	Whitewater. Also felt at Grand						
	0.8s	6.25nm				4.6mb		1.0s	20.00nm		5.0mb		Junction.							
LPB	35.20	146	(P)	34	11.00	2.2	LDF	89.78	38	eP	55	40.40	-0.4	PV08	0.40	215	iPc	31	28.40	0.2
CNCB	35.49	146	P	34	13.00	1.6		0.8s	10.75nm		4.9mb		PV07	0.52	206	iPc	31	30.54	0.0	
TNP	36.16	319	eP	34	18.00	1.5	MAF	90.39	41	eP	55	43.50	-0.2	PV06	0.58	188	iPc	31	32.04	0.2
	0.8s	2.65nm				4.2mb	BGF	90.70	41	iPc	55	45.60	0.5	PV04	0.67	220	iP	31	33.55	0.2
CCH	36.98	144	P	34	24.90	1.2		0.6s	4.95nm		4.7mb		PV09	0.73	236	ePd	31	33.84	-0.7	
SIV	39.11	136	iPd	34	39.20	-2.0	AVF	91.12	41	eP	55	47.20	0.2	PV10	0.75	225	ePd	31	35.87	1.0
SES	41.91	338	ePc	35	03.70	-0.2	SMF	91.37	41	eP	55	48.10	-0.1	PV03	0.76	211	P	31	34.98	0.1
NEW	42.80	331	iP	35	10.50	-0.7		0.8s	5.35nm		4.7mb		PV02	0.76	203	P	31	35.40	0.5	
	0.9s	17.54nm				4.9mb	LPL	92.78	43	eP	55	55.90	0.9	RW2	0.77	140	iPc	31	34.96	-0.2
FFC	43.19	348	iPc	35	14.20	0.0		0.8s	4.05nm		4.6mb		RW6	0.78	155	iPc	31	35.22	-0.1	
	0.6s	18.00nm				5.1mb	LPG	92.79	43	eP	55	56.10	1.0	S	31	47.39				
PNT	44.72	331	iPd	35	27.60	1.0		0.8s	4.70nm		4.7mb		RW1	0.79	145	iPc	31	35.11	-0.3	
	0.7s	35.00nm				5.3mb	S.D. = 0.9 on 32 of 36 obs.					PV01	0.79	192	P	31	35.87	0.4		
SCH	45.03	17	eP	35	28.00	-1.0	* OCT 21, 1990 04h 22m 56.94±0.68s					RW3	0.84	141	iPc	31	36.20	-0.1		
PEL	48.63	161	ePd	35	58.00	0.5	2.563 N ± 13.3km 64.788 E ± 6.7km					RW5	0.92	153	P	31	37.96	0.2		
i	37	36.00					DEPTH = 10.0km (geophysicist)					RW4	0.95	142	ePc	31	38.20	0.0		
LNK	49.16	162	iP	36	00.80	-0.6	4.9mb (13 obs.)					PV05	1.01	215	P	31	37.45	-1.8		
YKA	53.08	345	eP	36	29.70	-1.0	CARLSBERG RIDGE (421)					GOL	2.45	70	eP	32	00.50	-0.3		
	0.5s	6.60nm				4.9mb	GBA	16.63	48	Pd	26	54.10	2.2	GLD	2.57	70	eP	32	03.00	0.5
VAO	53.68	131	eP	36	33.30	-2.5		0.8s	3.70nm		3.6mb X		DAU	2.70	305	eP	32	03.70	-0.7	
PDCR	54.62	116	eP	36	38.10	-4.6X							MSU	3.01	264	e(P)	32	09.50	0.7	
e	37	43.20					POO	18.19	29	eP	27	12.00	0.6	BW06	3.97	347	e(P)	32	22.60	0.2
JFD	55.68	128	e(P)	36	49.20	-1.2	HYB	20.01	42	eP	27	33.50	0.6	ANMO	4.24	158	e(P)	32	39.00	12.9X
MBC	65.54	352	eP	37	55.00	-1.3	DMN	31.59	36	P	29	22.60	0.2	ALQ	4.24	158	eP	32	38.50	12.3X
	0.5s	2.00nm				4.3mb		1.0s	31.00nm		5.2mb		S.D. = 0.6 on 21 of 23 obs.							
HFS	84.67	29	eP	39	43.50	-2.0	GKN	31.61	35	P	29	22.50	0.0	* OCT 21, 1990 04h 44m 00.59±0.90s						
	0.5s	1.00nm				4.1mb	PKI	31.74	36	P	29	23.60	-0.2	19.057 S ± 10.4km 168.201 E ± 13.2km						
GBA	149.98	29	PKPc	47	01.80	3.7X	KKN	31.82	36	P	29	24.40	-0.1	DEPTH = 91.2 ± 6.4 km						
	0.7s	3.30nm					GUN	32.27	37	P	29	28.60	0.1	4.3mb (1 obs.)						
MBL	152.20	249	ePKP	47	08.80	7.5X	MAIO	33.92	352	eP	29	44.00	1.5	VANUATU ISLANDS (186)						
S.D. = 1.3 on 34 of 37 obs.						CHG	37.13	62	eP	30	10.00	0.1	PVC	1.31	5	iPc	44	24.00	-0.4	
OCT 21, 1990 03h 43m 02.00±0.66s						BCAO	46.20	274	iPc	31	26.20	1.9		IS	44	44.00				
17.362 S ± 6.2km 69.272 W ± 9.5km						VRI	54.45	328	ePd	32	21.50	-5.3X	BKM	1.38	2	iPc	44	25.60	0.3	
DEPTH = 181.8 ± 5.0 km						SSE	60.19	55	eP	33	06.00	-1.6		IS	44	45.50				
4.8mb (15 obs.)						ARV	61.34	319	P	33	14.50	-0.8	DZM	3.42	208	iPc	44	53.00	0.1	
PERU-BOLIVIA BORDER REGION (118)						SFI	62.24	319	P	33	22.50	1.2		IS	45	55.60				
CNCB	1.35	66	iPd	43	35.10	1.4	FVI	62.85	322	P	33	25.50	0.2	SVO	12.77	319	eP	47	06.00	6.0X
LPB	1.39	54	iPd	43	34.20	0.3	BDI	63.12	319	P	33	25.50	-1.7	STK	27.12	237	eP	49	37.50	0.5
ZOBO	1.55	46	iPd	43	35.30	-0.2	CTI	63.30	321	P	33	27.50	-1.0		0.6s	6.00nm		4.3mb		
CCH	2.99	91	iPc	43	15.37	-36.0X	BOB	64.16	319	P	33	34.00	-0.1	WB5	31.88	263	eP	50	18.80	-0.6
i	44	15.40					MDI	64.41	320	P	33	35.50	0.0	ASPA	32.22	256	iPd	50	22.10	-0.3
i	44	31.90					CKI	64.79	319	P	33	37.50	-0.6		0.4s	126.30nm		6.0mb X		
ANT	6.40	189	iP	44	32.50	-2.5	CLL	65.01	327	i(P)	33	39.20	-0.1	MTN	36.12	274	iPd	50	56.70	0.9
SIV	7.98	81	iP	44	54.60	-1.4	1.1s	10.00nm		4.9mb				0.4s	90.00nm		6.1mb X			
PT10	9.11	304	e(P)	45	22.00	11.1X		0.8s	10.75nm		5.1mb		FORR	38.02	244	iPd	51	11.00	-0.6	
eS	46	41.00					LMR	65.57	317	eP	33	42.90	-0.2	MBL	45.33	259	iPd	52	11.70	0.2
MDZ	15.46	179	eP	46	33.40	1.5	LPG	66.20	319	iPc	33	46.50	-1.0	MANU	49.16	256	eP	52	41.00	-0.3
PEL	15.77	184	eP	46	34.50	-1.2		0.9s	5.75nm		4.8mb		SSE	67.27	317	eP	54	40.50	-7.1X	
1.2s	40.63nm		4.7mb				LPL	66.22	319	eP	33	46.60	-0.9	GRF	144.31	334	ePKPc	03	22.50	-5.0X
SAN	16.07	184	eP	46</																

SSF 149.38 339 ePKP 03 35.40 -0.4
0.7s 4.40nm
LPL 149.47 334 ePKP 03 36.50 0.2
LPG 149.47 334 ePKP 03 36.60 0.2
0.7s 3.85nm
BGF 150.04 340 iPKPc 03 36.90 0.1
0.8s 8.05nm
SBF 150.47 331 ePKP 03 38.50 0.9
TCF 150.49 340 ePKP 03 37.90 0.4
PGF 150.70 328 ePKP 03 38.90 0.9
0.6s 11.70nm
LSF 150.74 341 ePKP 03 38.20 0.4
FRF 151.06 332 ePKP 03 39.40 1.0
LMR 151.30 331 ePKP 03 39.90 1.2
S.D. = 0.8 on 24 of 29 obs.

? OCT 21, 1990 07h 19m 05.85 ± 1.88s
24.891 S ± 46.2km 13.584 W ± 28.0km
DEPTH = 10.0km (geophysicist)
4.6mb (3 obs.)

SOUTH ATLANTIC RIDGE (410)

PDCR 27.07 292 eP 24 40.40 -10.2X
KIC 32.23 17 (P) 25 36.00 -0.7
BCAO 42.71 51 iPd 27 04.80 -0.2
0.8s 11.00nm 4.6mb
SIV 45.18 272 Pc 27 26.20 1.2
CCH 49.34 268 P 27 58.00 0.0
CNCB 51.19 268 P 28 12.80 0.4
LPB 51.39 268 P 28 13.20 -0.5
ZOB0 51.50 269 P 28 13.00 -1.7
LR 45 48.00
ARE 54.49 267 eP 28 37.00 0.4
LPG 72.46 15 eP 30 35.20 0.6
0.8s 4.70nm 4.6mb
LPL 72.47 15 eP 30 35.10 0.5
0.8s 4.05nm 4.6mb
S.D. = 0.9 on 10 of 11 obs.

? OCT 21, 1990 08h 24m 09.35 ± 1.27s
10.922 S ± 82.5km 166.553 E ± 19.2km
DEPTH = 33.0km (normal)

SANTA CRUZ ISLANDS (184)

HNR 6.67 282 eP 25 47.00 -0.6
eS 26 15.00
SVO 6.87 284 eP 25 51.00 0.7
eS 27 05.00
GUN 86.95 299 P 36 53.40 0.1
PKI 87.27 299 P 36 54.60 -0.2
KKM 87.44 299 P 36 55.40 0.0
DMN 87.54 299 P 36 56.40 0.4
GKN 88.04 299 P 36 57.80 -0.4
BCAO 147.68 261 iPKPc 43 50.50 0.1
0.5s 29.00nm
S.D. = 0.5 on 8 of 8 obs.

% OCT 21, 1990 09h 49m 09.51 ± 1.04s
39.131 N ± 7.4km 27.713 E ± 12.2km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.7 (ISK).

IZM 0.81 206 iPg 49 25.30 0.0
eSg 49 37.50
EDC 1.22 5 iPn 49 32.80 0.6
KCT 1.22 24 iPn 49 32.40 0.2
BNT 1.23 7 ePn 49 32.00 -0.4
EZM 1.28 303 ePn 49 33.40 0.2
KGT 1.36 347 iPn 49 33.90 -0.5
S.D. = 0.5 on 6 of 6 obs.

% OCT 21, 1990 09h 53m 14.05 ± 1.58s
43.034 N ± 9.8km 13.705 E ± 14.9km
DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)

AOU 0.71 198 P 53 28.70 0.5
eSg 53 38.60
ARV 0.73 310 P 53 27.30 -1.0
eSg 53 39.10
ASS 0.77 273 P 53 27.30 -1.7
eSg 53 39.60
MNS 1.00 230 P 53 33.20 0.2
eSg 53 45.20
AZI 1.06 191 P 53 35.00 0.9
eSg 53 50.00

SDI 1.33 176 P 53 37.50 -1.1
eSg 53 56.80
CRE 1.41 296 P 53 41.00 1.1
eSg 54 00.50
DUI 1.48 158 P 53 40.50 -0.3
PGD 1.67 301 P 53 45.00 1.4
S.D. = 1.3 on 9 of 9 obs.

? OCT 21, 1990 10h 04m 34.90 ± 1.48s
39.083 N ± 8.3km 27.686 E ± 18.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.4 (ISK).

IZM 0.76 206 ePg 04 49.80 0.0
eSg 05 01.30
EDC 1.27 6 iPn 04 58.80 0.3
EZM 1.29 306 ePn 04 58.90 0.1
KGT 1.40 348 iPn 04 59.90 -0.5
S.D. = 0.6 on 4 of 4 obs.

& OCT 21, 1990 10h 17m 26.68s
58.955 N 154.275 W
DEPTH = 112.4km
ALASKA PENINSULA (12)
<AGS-P>.

MCNL 0.23 352 eP 17 42.03 0.9
eS 17 53.53
CDD 0.33 94 iP 17 42.22 -0.9
eS 17 54.47
AUI 0.58 49 eP 17 43.78 -0.8
AUH 0.59 46 eP 17 45.64 0.9
AUE 0.62 49 eP 17 44.24 -0.6
PDB 0.84 3 iP 17 45.65 -1.1
eS 18 00.61
OPT 0.88 37 eP 17 46.49 -0.7
eS 18 01.02
HOM 1.52 61 eP 17 53.04 -1.2
eS 18 13.68
RED 1.65 27 iP 17 54.61 -1.4
CNPM 1.66 69 eP 17 54.18 -1.8
eS 18 15.45
RSO 1.70 26 eP 17 55.32 -1.3
NNL 1.87 53 eP 17 58.18 -0.4
RDT 1.88 29 iP 17 57.18 -1.6
eS 18 21.06
SVW 2.26 343 eP 18 02.40 -1.3
CKL 2.45 23 iP 18 04.66 -1.6
SPU 2.50 26 eP 18 04.93 -1.8
BGL 2.50 21 eP 18 05.50 -1.4
CRP 2.55 24 eP 18 06.38 -1.2
SLKM 2.58 51 eP 18 05.76 -2.1
CGLM 2.62 25 eP 18 06.74 -1.7
NCG 2.68 22 eP 18 07.48 -1.7
SEW 2.72 63 eP 18 07.59 -2.0
PMS 3.29 44 eP 18 14.79 -2.7
SKT 3.33 23 eP 18 15.73 -2.1
MTU 3.53 70 eP 18 18.10 -2.6
KNIM 3.60 64 eP 18 18.10 -3.5
PLRM 3.68 42 eP 18 19.43 -3.2
GHO 3.88 41 eP 18 22.01 -3.4
CUT 3.98 28 eP 18 23.94 -2.8
29 obs. associated

? OCT 21, 1990 10h 21m 09.64 ± 4.72s
14.694 S ± 72.1km 75.536 W ± 62.1km
DEPTH = 33.0km (normal)

NEAR COAST OF PERU (115)

PT10 2.95 332 e(P) 21 56.00 0.7
IS 22 12.00
NNA 2.98 335 iP 21 55.00 -0.7
i 21 58.80
IS 22 35.50
ARE 4.28 115 eP 22 14.00 -0.4
IS 23 04.00
ZOB0 7.32 103 P 22 57.00 -0.5
LPB 7.40 105 eP 22 59.00 0.5
CNCB 7.57 107 P 23 01.50 0.4
S.D. = 0.8 on 6 of 6 obs.

* OCT 21, 1990 10h 32m 00.06 ± 1.40s
18.663 S ± 11.5km 178.009 W ± 15.6km
DEPTH = 526.9 ± 11.5 km
4.9mb (9 obs.)
FIJI ISLANDS REGION (181)

SGE 4.01 285 eP 33 21.00 -0.2
BKM 13.11 272 iPc 34 51.00 0.3
DZM 14.97 254 iPc 35 09.80 0.2
PUZ 19.61 189 eP 35 56.30 1.8
NOZ 20.18 189 eP 35 59.30 -0.5
KHZ 24.74 195 P 36 40.00 -1.2
LTZ 25.42 197 P 36 45.70 -1.5
BRS 28.20 247 iPd 37 13.10 1.3
CTA 33.70 262 iPd 37 59.00 0.3
0.6s 37.33nm 5.1mb
PMG 34.97 280 iPc 38 09.70 0.4
1.1s 88.61nm 5.3mb
CMS 34.99 242 iPc 38 11.10 1.8
0.6s 20.00nm 4.9mb
STK 38.61 242 iPd 38 41.20 2.1
0.6s 14.00nm 4.7mb
WB5 44.85 260 iPd 39 28.20 -0.6
ASPA 44.96 255 iPd 39 30.00 0.4
0.8s 118.70nm 5.5mb
Z 23s 0.20um 4.0mszx

MTN 49.16 269 eP 40 00.60 -1.1
FORR 50.00 245 iPc 40 07.80 0.2
KNA 50.78 265 eP 40 12.50 -1.0
COOL 55.98 245 eP 40 49.70 -0.8
MBL 58.17 256 iPd 41 05.10 -0.4
0.3s 8.00nm 4.5mb
MEKA 58.60 250 eP 41 07.80 -0.7
KLB 58.83 244 eP 41 09.70 -0.2
NNAO 59.20 242 eP 41 12.00 -0.3
BAL 59.81 245 eP 41 16.00 -0.4
MUN 60.12 243 eP 41 18.40 -0.1
MRWA 60.55 246 eP 41 20.00 -1.4
NANU 61.88 254 eP 41 30.30 0.2
0.4s 32.00nm 5.1mb
MAT 68.73 323 eP 42 11.00 -1.6
0.7s 4.79nm 4.2mb
CHTO 89.61 290 eP 44 03.50 0.8
0.8s 2.20nm 4.1mb
KSP 145.94 344 ePKP 50 40.70 0.9
CLL 146.28 348 iPKPd 50 41.70 1.4
S.D. = 1.1 on 30 of 30 obs.

% OCT 21, 1990 10h 32m 47.41 ± 1.03s
39.088 N ± 7.4km 27.679 E ± 12.3km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.4 (ISK).

IZM 0.76 205 ePg 33 02.30 0.0
EDC 1.27 6 iPn 33 11.30 0.4
KCT 1.27 24 iPn 33 11.40 0.4
BNT 1.28 8 iPn 33 10.60 -0.6
EZM 1.28 306 ePn 33 11.40 0.2
KGT 1.39 348 iPn 33 12.40 -0.4
S.D. = 0.5 on 6 of 6 obs.

% OCT 21, 1990 10h 33m 50.47 ± 2.33s
17.151 N ± 16.0km 100.407 W ± 21.4km
DEPTH = 33.0km (normal)

GUERRERO, MEXICO (59)

ACX 0.60 118 eP 34 02.25 -0.2
IS 34 13.00
III 1.51 36 eP 34 16.50 0.8
CRX 2.35 17 (P) 34 31.50 3.7X
PPM 2.55 41 eP 34 30.50 -0.4
IIJ 2.85 14 eP 34 31.00 -1.2
MRX 2.65 344 eP 34 32.00 0.3
IIT 2.73 47 (P) 34 36.50 3.3X
OXX 3.52 91 (P) 34 56.00 11.5X
S.D. = 1.1 on 5 of 8 obs.

& OCT 21, 1990 10h 34m 31.55s
62.979 N 150.720 W
DEPTH = 97.1km
CENTRAL ALASKA (1)
<AGS-P>.

HUR 0.49 90 eP 34 46.95 -0.3
eS 34 58.73
CUT 0.61 160 eP 34 48.10 0.0
eS 35 00.37
RND 0.95 62 iP 34 51.02 -0.5
eS 35 05.56
SKT 1.07 201 eP 34 52.50 -0.4
eS 35 08.73

21d 10h

MCK	1.10	46	eP	34	53.02	-0.2
PWA	1.39	163	eP	34	56.70	0.1
GHO	1.47	145	eP	34	57.70	-0.1
			eS	35	18.23	
SUA	1.52	180	eP	34	58.85	0.4
PLRM	1.58	151	eP	34	58.39	-0.6
SML	1.62	136	eP	34	58.99	-0.6
NCG	1.72	204	eP	35	00.51	-0.4
NEA	1.76	24	eP	35	00.33	-1.1
CGLM	1.78	200	eP	35	01.77	0.0
			eS	35	24.45	
PMS	1.82	162	eP	35	02.07	-0.2
			eS	35	24.65	
BGL	1.89	205	eP	35	03.76	0.6
WRH	1.90	37	eP	35	02.02	-1.2
CKL	1.94	204	eP	35	04.24	0.3
SCM	1.95	125	eP	35	03.06	-0.9
CCB	2.12	36	eP	35	04.78	-1.2
HDA	2.21	48	eP	35	06.00	-1.3
TOA	2.28	111	eP	35	07.88	-0.5
SDG	2.42	98	eP	35	09.72	-0.5
SLKM	2.49	174	eP	35	11.15	0.0
RDT	2.54	199	eP	35	12.48	0.6
KLU	2.70	121	eP	35	11.62	-2.3
GLI	2.72	139	eP	35	12.20	-1.9
VZW	2.75	133	eP	35	12.80	-1.9
VLZ	2.78	130	eP	35	12.64	-2.3
KNIM	3.00	150	eP	35	15.18	-2.8
CNPM	3.47	184	eP	35	23.96	-0.6
GLB	3.58	112	eP	35	23.91	-2.2

31 obs. associated

* OCT 21, 1990 10h 47m 47.90±1.63s
 5.011 S ±13.6km 151.178 E ±17.8km
 DEPTH = 40.1 ± 18.9 km
 4.6mb (4 obs.)

NEW BRITAIN REGION (192)

RAB	1.28	51	iPd-	48	09.10	-0.5
PMG	5.92	222	eP	49	16.00	0.6
	0.9s	100.84nm				5.4mb X
			eS	50	29.00	
QIS	19.11	215	ePc	52	08.00	-2.5X
BKM	20.90	128	iP	52	38.00	8.5X
MTN	21.27	247	eP	52	34.00	0.9
	0.4s	21.00nm				4.9mb
WB5	22.05	226	eP	52	39.70	-1.3
			i	52	44.40	
BRS	22.31	176	iPc	52	46.00	2.5
DZM	22.50	140	iPc	52	39.10	-6.4X
KNA	24.46	242	eP	53	03.50	-1.0
ASPA	24.93	220	iPc	53	07.40	-1.6
	0.6s	32.10nm				5.1mb
MBL	34.38	239	eP	54	32.00	-1.6
MRWA	41.07	230	eP	55	30.50	1.0
CHTO	56.62	296	eP	57	31.10	1.4
	1.1s	3.24nm				4.3mb
GUN	70.85	302	P	59	04.20	0.7
PKI	71.15	301	P	59	05.40	0.1
KKN	71.33	301	P	59	06.60	0.4
DMN	71.42	301	P	59	07.60	0.7
GKN	71.93	301	P	59	10.20	0.4
GBA	75.47	285	Pd	59	30.20	-0.1
	0.7s	2.90nm				4.4mb
BCAD	132.81	271	iPKPd	06	59.00	-2.5
	0.4s	5.00nm				

S.D. = 1.4 on 17 of 20 obs.

OCT 21, 1990 10h 56m 30.82±0.34s
 37.635 N ± 7.5km 72.131 E ± 7.1km
 DEPTH = 33.0km (normal)
 4.7mb (10 obs.)

TAJIK SSR (715)

QUE	8.58	212	eP	58	36.30	0.4
			eS	00	06.00	
NDI	9.89	153	iPd	58	55.40	1.7
	0.5s	21.13nm				5.7mb X
MAIO	10.20	266	eP	58	57.00	-1.1
			eS	00	44.00	
GKN	14.23	129	P	59	51.40	-0.7
KKN	14.78	128	P	59	58.00	-1.4
DMN	14.80	129	P	59	59.60	-0.1
PKI	15.01	128	P	00	01.80	-0.8
GUN	15.08	126	P	00	02.40	-1.0
HYB	20.92	163	eP	01	15.50	2.4
NUR	37.45	323	eP	03	44.00	1.6

SUF	37.45	327	eP	03	44.00	1.5
SOD	39.10	334	iP	03	58.90	2.6X
HFS	42.74	321	eP	04	26.20	-0.1
	0.4s	9.60nm				4.9mb
NB2	44.03	322	P	04	37.30	0.6
	0.7s	4.90nm				4.4mb
BSF	47.74	304	eP	05	06.20	-0.3
	0.6s	4.50nm				4.7mb
HAU	47.99	304	eP	05	08.00	-0.3
LPG	48.33	301	eP	05	11.10	-0.2
LPL	48.34	301	eP	05	11.20	-0.1
FRF	48.93	299	eP	05	15.50	-0.1
	0.7s	5.50nm				4.7mb
SMF	49.98	303	eP	05	23.10	-0.5
AVF	50.27	304	eP	05	25.10	-0.7
	0.7s	5.50nm				4.7mb
MAF	50.95	303	eP	05	30.80	-0.2
	0.8s	4.70nm				4.5mb
TCF	51.16	303	eP	05	32.20	-0.5
LSF	51.63	303	eP	05	35.70	-0.4
	0.5s	2.20nm				4.4mb
LDF	52.02	307	eP	05	38.20	-0.9
	0.5s	5.10nm				4.7mb
FLN	52.20	307	eP	05	40.00	-0.4
	0.6s	7.20nm				4.8mb
MBC	66.16	3	ePd	07	17.60	1.0
	0.5s	14.00nm				5.3mb
INK	72.64	10	eP	07	57.00	0.6

S.D. = 1.0 on 27 of 28 obs.

* OCT 21, 1990 13h 16m 29.29±0.88s
 37.801 N ±19.5km 73.424 E ±23.3km
 DEPTH = 33.0km (normal)
 4.5mb (5 obs.)

TAJIK SSR (715)

NDI	9.63	160	e(P)	18	50.00	1.4
MAIO	11.23	267	eP	18	57.00	-13.7X
			eS	20	52.00	
GKN	13.56	133	P	19	42.20	0.4
	0.6s	28.00nm				5.3mb
KKN	14.10	132	P	19	47.80	-1.1
PKI	14.33	132	P	19	52.70	0.5
	0.6s	11.00nm				4.6mb
GBA	24.36	171	P	21	44.00	-1.4
HFS	43.26	321	eP	24	28.90	0.0
	0.4s	4.50nm				4.6mb
NB2	44.53	322	P	24	39.60	0.3
	0.6s	2.30nm				4.2mb
MBC	65.94	3	eP	27	18.50	4.9X
	0.8s	3.00nm				4.4mb

S.D. = 1.2 on 7 of 9 obs.

OCT 21, 1990 13h 18m 46.94±0.54s
 3.075 S ± 7.2km 136.460 E ± 9.8km
 DEPTH = 33.0km (normal)
 5.1mb (5 obs.) 4.2msz (1 obs.)

WEST IRIAN (201)

MTN	11.05	208	iPd	21	27.10	1.3
			eS	23	29.00	
PMG	12.35	121	eP	21	44.00	0.6
KNA	14.70	211	iPc	22	15.30	0.9
			eS	24	53.00	
WB5	16.83	187	eP	22	39.50	-2.3
			eS	25	40.00	
			eScP	30	41.30	
QIS	17.65	170	eP	22	50.00	-2.0
			eS	26	00.00	
GUMO	18.54	27	eP	23	03.00	0.0
CTA	19.42	151	iPd	23	15.40	1.8
	1.2s	40.63nm				4.6mb
ASPA	20.62	187	iPc	23	26.50	0.2
	0.9s	207.20nm				5.5mb
Z	19s	1.10um				4.2msz
MBL	24.19	221	eP	24	03.00	1.4
	0.6s	51.00nm				5.2mb
BRS	28.78	149	iPc	24	42.50	-1.5
MRWA	32.47	215	eP	25	16.50	-0.1
KLB	33.39	210	eP	25	24.30	-0.3
BJI	46.77	339	eP	27	21.50	6.5X
	16s	0.29um				4.3mszX
LZH	49.45	325	eP	27	41.50	5.2X
	1.5s	23.00nm				5.0mb
GUN	57.56	306	P	28	36.00	-0.5
PKI	57.81	305	P	28	37.30	-0.9

KKN	58.00	306	P	28	40.00	0.6
DMN	58.07	305	P	28	39.70	-0.3
GKN	58.61	305	P	28	44.20	0.6
	0.8s	17.00nm				5.2mb
POO	65.23	292	eP	29	26.50	-1.4
CNCB	148.81	130	PKP	38	32.00	1.6
LBP	148.88	130	(PKP)	38	35.00	4.7X
ZOBO	149.02	129	PKP	38	31.00	0.3

S.D. = 1.2 on 20 of 23 obs.

* OCT 21, 1990 13h 24m 11.00s
 61.243 N 151.407 W
 DEPTH = 63.8km
 4.4mb (1 obs.)
 SOUTHERN ALASKA (2)
 <AGS-P>. Felt (III) at Anchorage
 and (II) at Palmer.

CGLM	0.30	283	iP	24	21.49	-0.3
SPU	0.32	259	iP	24	21.49	-0.4
			eS	24	30.43	
CRP	0.36	274	iP	24	22.09	-0.3
SUA	0.39	55	iP	24	22.35	-0.2
NCG	0.40	294	iP	24	22.11	-0.5
			eS	24	31.40	
CKL	0.45	264	iP	24	22.57	-0.6
BGL	0.48	273	iP	24	22.66	-0.7
NKA	0.51	171	eP	24	24.88	1.4
SKT	0.74	356	iP	24	25.21	-1.0
RDT	0.83	216	eP	24	26.52	-0.8
			iS	24	39.56	
PWA	0.84	60	iP	24	27.31	-0.1
PMS	0.89	89	iP	24	27.77	-0.4
SLKM	0.94	141	iP	24	27.84	-0.9
RSO	1.02	221	iP	24	29.19	-0.8
RED	1.06	220	iP	24	29.48	-0.9
PLRM	1.15	71	iP	24	30.45	-0.9
PMR	1.15	71	iPd	24	30.40	-1.0
			eS	24	47.60	
NNL	1.21	177	iP	24	32.65	0.5
CUT	1.28	24	iP	24	32.23	-1.0
GHO	1.30	65	iP	24	32.58	-1.0
			eS	24	49.87	
SEW	1.50	139	eP	24	34.20	-1.9
BRK	1.51	170	eP	24	35.21	-1.1
SML	1.58	68	iP	24	35.86	-1.5
HOM	1.59	184	eP	24	37.41	-0.1
CNPM	1.73	177	eP	24	38.14	-1.2
XLV	1.80	185	eP	24	40.13	-0.2
OPT	1.83	210	eP	24	40.03	-0.8
			eS	25	01.55	
HUR	1.93	25	eP	24	41.80	-0.4
			eS	25	05.71	
PDB	2.01	225	iP	24	41.32	-1.9
KNIM	2.01	115	iP	24	40.00	-3.3
SCM	2.04	71	eP	24	41.87	-1.9
SVW	2.05	268	iPd	24	41.80	-2.0
AUE	2.13	208	eP	24	43.94	-0.9
GLI	2.13	98	iP	24	41.86	-3.1
AUH	2.14	209	iP	24	44.53	-0.6
AUI	2.16	209	eP	24	44.47	-0.9
MTU						

FBA 4.02 23 iPd 25 09.90 -1.6
GLM 4.18 24 iP 25 12.26 -1.5
DOT 4.18 52 eP 25 12.40 -1.4
TGL 4.21 93 eP 25 10.11 -4.1
WAX 4.26 97 eP 25 10.36 -4.6
BALM 4.40 89 iP 25 12.95 -4.0
TMW 4.45 58 eP 25 16.72 -0.8
WRG 4.77 101 eP 25 18.16 -3.9
IMA 4.95 349 ePd 25 21.40 -3.3
FYU 6.00 24 eP 25 37.17 -2.0
YKU 6.03 101 e(P) 25 36.70 -2.9
DWY 6.20 58 P 25 38.80 -3.1
ANM 7.19 304 eP 25 53.20 -2.5
SDN 7.61 223 eP 25 59.60 -1.9
SIT 9.26 110 eP 26 19.90 -4.2
INK 10.37 39 eP 26 36.00 -3.3
PNT 21.43 109 eP 28 53.00 -2.2
1.0s 19.00nm 4.4mb
79 obs. associated

% OCT 21, 1990 13h 44m 24.42±1.58s
42.961 N ± 9.3km 13.461 E ± 17.5km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ASS 0.60 281 P 44 36.50 0.0
eSg 44 47.80
AQU 0.61 184 P 44 38.00 1.3
eSg 44 45.60
ARV 0.66 325 P 44 37.50 0.0
eSg 44 47.00
MNS 0.81 225 P 44 39.40 -0.8
eSg 44 53.70
AZI 0.97 181 P 44 44.50 1.6
SDI 1.28 168 P 44 46.00 -2.2
eSg 44 40.20
CRE 1.29 302 P 44 48.00 -0.4
SFI 1.51 310 P 44 52.60 1.1
PGD 1.56 306 P 44 52.00 -0.4
S.D. = 1.4 on 9 of 9 obs.

OCT 21, 1990 15h 10m 43.70±0.12s
3.989 S ± 2.4km 77.274 W ± 2.6km
DEPTH = 116.3km (12 depth phases)
5.7mb (67 obs.)

PERU-ECUADOR BORDER REGION (110)

FAULT PLANE SOLUTION: P-Waves
NP1: Strike=150 Dip=70 Slip=-110
NP2: 17 28 -47

Principal Axes: P1g=22 Azm=255
P 60 31

Comment: The focal mechanism is poorly controlled and corresponds to normal faulting with a moderate left-lateral strike-slip component. The preferred fault plane is NP1.

MOMENT TENSOR SOLUTION

Dep 113 No. of sta: 5

Moment Tensor: Scale 10**17 Nm

Mrr=-0.74 Mtt=-0.29

Mrf=1.03 Mrt=-0.64

Mrf=0.69 Mrt=-0.46

Principal axes: T Val=1.51 P1g=22 Azm=248

N -0.26 22 149

P -1.24 58 18

Best Double Couple: Mo=1.4*10**17

NP1: Strike=12 Dip=31 Slip=-42

NP2: 140 70 -114

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 18S, 31C

Centroid Location: Origin Time 15:10:47.4 0.4

Lat 4.16S 0.04 Lon 77.29W 0.05

Dep 108.1 2.7 Half-duration 2.0

Moment Tensor: Scale 10**17 Nm

Mrr=-1.18 0.05 Mtt=-0.08 0.08

Mrf=1.25 0.10 Mrt=-0.46 0.05

Mrf=0.59 0.05 Mrt=-0.51 0.07

Principal Axes: T Val=1.61 P1g=14 Azm=249

N -0.20 11 156

P -1.40 72 30

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

NP1: Strike=354 Dip=32 Slip=-69
NP2: 150 60 -103

TUNG 2.81 335 P 11 28.60 0.2
VC1 3.51 341 iP+ 11 38.60 0.6
OTO 3.97 342 P 11 45.60 1.5
OUR 3.99 342 eP 11 45.00 0.6
eS 12 14.00
GGP 4.01 341 Pn+ 11 44.80 -0.1
Pg 11 50.00
eS 12 10.00
YANA 4.06 341 eP 11 46.00 0.6
CAYA 4.10 350 iP 11 45.80 -0.2
iS 12 16.50
COTA 4.42 346 P 11 51.20 0.8
eS 12 30.00
PSO 5.15 359 eP 12 00.00 -0.1
NNA 7.96 177 iPc 12 32.30 -6.0X
0.9s 378.15nm 6.0mb
iS 13 56.00

PT10 8.04 178 iP 12 38.50 -0.8
iS 14 01.00

BOG 9.14 21 iPc 12 52.00 -2.4
iS 14 40.00

BMG 11.76 21 iPd 13 28.00 -1.1
ARE 13.63 156 eP 13 57.00 3.2X
ZOBO 15.16 144 P 14 10.00 -3.5X
Z 20s 0.53um

LPB 15.38 145 P 14 13.80 -2.3
1.0s 234.00nm 5.4mb
i 14 21.00

CNCB 15.67 145 P 14 19.00 -0.9
i 14 24.90

CCH 17.21 141 eP 14 20.00 -18.8X
i 14 41.00

CUM 19.40 42 iPc 15 02.80 -0.5
TPP 21.22 48 eP 15 24.72 3.0X

TRN 21.47 47 eP 15 27.79 3.5X
TBH 21.61 48 eP 15 29.20 3.5X

TPX 23.94 322 (P) 15 50.00 1.7
PORP 24.29 25 iP 15 51.70 0.1

LRS 24.41 25 iP 15 53.00 0.2
MCP 24.42 24 iP 15 53.60 0.8

PDF 24.52 40 eP 15 53.00 -0.9
0.1s 1.50nm

SJG 24.55 26 iP 15 53.80 -0.3
LPR 24.84 27 iP 15 56.00 -0.9

BBL 24.91 39 eP 15 56.00 -1.5
NEV 25.52 34 eP 16 01.00 -2.2

CYA 26.66 157 e(P) 16 14.00 0.4
QXX 28.41 318 (P) 16 28.50 -1.2

RTLL 28.43 164 ePc 16 29.70 0.1
RTCB 28.49 165 ePd 16 30.70 0.5

PEL 29.65 169 iPd 16 41.00 0.6
1.0s 25.00nm 4.9mb

MDZ 29.81 166 iP 16 42.80 1.0
iS 17 08.10

SAN 29.96 169 eP 16 43.50 0.4
LNV 30.31 170 eP 16 46.00 -0.1

ACX 30.45 313 (P) 16 48.00 0.4
IIT 30.85 319 (P) 16 53.00 1.6

PPD 30.91 128 eP 16 49.80 -1.8
e 17 23.60 160kmX

BAO 31.04 114 eP 16 52.40 -0.5
PPM 31.09 318 (P) 16 55.00 1.2

III 31.18 316 (P) 16 55.50 1.3
IIJ 32.30 318 (P) 17 06.00 1.7

MRX 33.28 316 (P) 17 14.00 1.8
VAO 34.87 126 eP 17 24.00 -2.0

SOB1 36.49 100 eP 17 39.30 -0.4
e 18 13.40 154kmX

JFO 37.35 121 eP 17 46.50 -0.4
e 18 08.90 94kmX

PDCR 38.65 105 eP 17 56.60 -1.2
e 18 17.80 89kmX

TKL 39.91 352 P 18 07.00 -0.8
GBTN 39.98 351 P 18 07.80 -0.6

CAI 40.04 95 iPd 18 08.60 -0.6
BLA 41.09 356 ePd 18 17.50 -0.1

1.3s 188.46nm 5.7mb
NA2 41.90 359 P 18 24.60 0.5
TUL 43.32 338 iPd 18 35.30 -0.4
1.2s 120.00nm 5.5mb
e 18 47.80 46kmX

SIO 43.37 337 iP 18 54.20
MEO 43.47 334 iPd 18 35.40 -0.7
FVM 43.51 345 P 18 36.80 -0.4
LVNJ 44.64 3 P 18 49.00 2.8X
GMTN 44.74 3 iP 18 46.20 -0.9
PNJ 44.77 3 iP 18 47.60 0.4
CLE 45.43 356 iP 18 51.50 -1.0
WVLY 46.26 359 P 18 58.40 -0.6
pP 19 26.00 119km
ALQ 47.46 327 iPd 19 09.00 0.1
1.0s 225.00nm 5.9mb
epP 19 36.00 116km
ANMO 47.46 327 P 19 09.00 0.1
HBVT 48.28 4 P 19 15.00 0.2
pP 19 42.20 116km
BNH 48.66 6 P 19 17.80 0.1
EMM 49.29 9 P 19 23.60 1.1
MIM 49.56 8 P 19 24.60 0.0
GLD 50.55 332 P 19 32.60 0.1
1.5s 171.88nm 5.8mb
GOL 50.58 332 P 19 32.40 -0.4
0.9s 50.19nm 5.4mb
GLA 51.19 319 eP 19 38.00 0.7
CBM 51.34 8 P 19 38.40 0.3
BAR 52.19 317 eP 19 35.00 -9.8X
TPC 52.64 319 eP 19 48.00 -0.2
PLM 52.72 318 eP 19 49.00 0.1
MSU 53.20 326 P 19 52.30 -0.1
PEC 53.24 318 P 19 52.50 0.0
RVR 53.45 318 eP 19 53.00 -1.0
GSC 53.87 320 eP 19 57.00 -0.2
MWC 54.04 318 eP 19 58.00 -0.6
DAU 54.05 328 P 19 58.80 0.1
PAS 54.07 318 eP 19 58.00 -0.6
CLC 54.70 320 eP 20 03.00 -0.2
DUG 54.73 327 P 20 03.60 0.1
BW06 54.95 331 P 20 04.20 -1.0
ISA 55.17 319 eP 20 05.00 -1.6
ABL 55.18 318 P 20 06.80 -0.1
SYP 55.51 317 eP 20 09.00 -0.1
BLP 55.81 317 P 20 11.00 -0.2
TNP 55.87 322 P 20 11.50 -0.3
1.0s 50.00nm 5.5mb
BCH 55.96 318 P 20 12.40 0.1
PTI 56.41 330 P 20 15.00 -0.5
PHAM 56.54 318 P 20 16.60 0.2
FRI 56.76 320 eP 20 16.20 -1.7
PRI 56.89 318 eP 20 17.80 -1.2
LLA 57.35 319 eP 20 21.40 -0.6
HPI 57.39 330 P 20 21.90 -0.6
PRS 57.47 318 eP 20 22.00 -0.9
SAO 57.76 319 eP 20 24.00 -0.9
CMB 57.81 320 eP 20 24.50 -0.8
ARN 58.15 319 P 20 28.20 0.5
MHC 58.22 319 eP 20 28.20 -0.1
GCC 58.28 319 eP 20 28.00 -0.5
PCC 58.80 319 eP 20 31.80 -0.3
RKT 58.82 245 iP 20 33.30 0.8
1.0s 40.00nm 5.4mb
BKS 58.91 319 ePd 20 32.70 -0.2
1.0s 122.00nm 5.9mb
BRK 58.93 319 eP 20 31.80 -1.2
ZSP 58.96 319 eP 20 33.50 0.3
SCH 59.24 7 eP 20 33.70 -1.2
1.0s 168.00nm 6.1mb
ORV 59.41 321 ePd 20 36.50 0.2
MIN 59.94 322 eP 20 38.80 -1.3
WDC 60.66 322 eP 20 42.20 -2.6
LBFM 60.71 323 P 20 45.00 -0.4
pP 21 12.40 112km
SES 61.47 336 iPd 20 49.10 -1.1
1.2s 438.00nm 6.3mb
pP 21 13.00 95kmX
FHC 61.69 321 eP 20 52.00 0.2
FFC 62.00 344 iPd 20 51.80 -1.8
1.1s 163.00nm 5.9mb
NEW 62.59 331 P 20 57.00 -0.6
1.0s 87.50nm 5.7mb
DPW 62.85 330 P 20 59.00 -0.3
PNT 64.51 331 iPd 21 10.40 0.2
1.0s 158.00nm 5.9mb
EDM 64.56 337 iPd 21 08.70 -1.7
1.1s 349.00nm 6.2mb
pP 21 37.50 117km
MCW 65.72 329 P 21 18.00 0.1
YKA 72.11 343 eP 21 55.40 -1.6

21d 15h

LKO	0.9s	39.70nm	5.2mb	BGF	86.09	43 eP	23 12.50	-0.2	PII	91.13	46 P	23 36.50	-0.1			
	72.67	79 Pd	22 00.12	-1.1		1.4s	283.15nm	6.0mb	BDI	91.21	46 P	23 36.00	-1.1			
TIO	1.1s	94.50nm	5.5mb	LBL	86.15	44 P	23 13.48	0.5	SAL	91.28	45 P	23 37.50	0.3			
	75.07	57 iP	22 15.60	0.7	AGO	86.20	43 P	23 13.22	-0.1	SBA	91.43	191 eP	23 39.60	2.2		
AVE	75.53	54 iP	22 18.00	0.7	GRC	86.37	42 P	23 13.63	-0.4	SOTA	91.87	43 iPd	23 40.40	0.3		
		i	22 43.00	96kmX	AVF	86.48	43 iPc	23 13.90	-0.7		1.0s	87.10nm	6.0mb			
SIT	76.67	332 eP	22 23.50	0.3	PLDF	1.0s	29.00nm	5.2mb		i		23 48.90	26km			
	1.3s	85.60nm	5.4mb	SSF	86.53	44 P	23 14.39	-0.6		i		24 10.50				
EVAL	77.16	50 eP	22 26.90	0.6		86.63	43 eP	23 14.60	-0.7		i	24 23.70				
EJIF	77.86	52 iPd	22 31.80	1.6		1.2s	44.65nm	5.3mb	FUR	91.97	42 iPc	23 41.50	1			
EPRU	78.17	51 eP	22 32.50	0.5	SMF	86.79	43 eP	23 15.60	-0.5		1.2s	66.00nm	5.8mb			
ERUA	78.19	45 eP	22 32.30	0.4		1.3s	72.20nm	5.5mb	PGD	92.01	46 P	23 39.50	-1.4			
EPLA	78.32	48 iPd	22 32.50	-0.2	LOR	86.90	42 eP	23 15.80	-0.8	GRF	92.04	41 iPd	23 41.70	1.0		
EMON	78.35	44 iPc	22 33.00	0.2		1.0s	40.00nm	5.4mb		1.5s	108.00nm	5.9mb				
EHOR	78.37	50 iPd	22 33.10	0.1	Z	22s	0.10um	4.2Msz		e		24 06.80	93km			
ECOG	79.54	51 iPc	22 40.20	0.7	LBF	86.93	43 eP	23 16.00	-0.8	CTI	92.09	44 Pd	23 41.10	0.0		
AFC	79.55	51 iPd	22 40.40	0.8		1.0s	24.00nm	5.1mb	SFI	92.11	46 P	23 41.00	0.0			
TOL	79.78	48 iPc	22 42.00	1.4	SNF	87.69	39 P	23 20.70	0.4	WATA	92.12	43 iPd	23 41.60	0.3		
	1.4s	418.60nm	6.0mb	UCC	87.78	39 P	23 21.00	1.1	CRE	92.16	47 P	23 39.50	-2.0			
GUD	79.89	48 eP	22 41.10	-0.2	DOU	87.82	40 Pd	23 21.20	0.3	MOX	92.35	40 iP	23 43.50	1.4		
ENIJ	80.52	52 eP	22 43.40	-1.2		0.9s	140.00nm	6.0mb		1.6s	77.00nm	5.7mb				
EVIA	80.66	50 eP	22 45.70	0.3	SVW	87.85	332 ePd	23 20.50	-0.5	RMP	92.61	48 P	23 44.50	1.0		
ECB	81.39	36 iPc	22 49.00	0.3	LRG	88.10	46 iPc	23 22.50	0.1	MNS	92.63	48 P	23 44.00	0.4		
	1.5s	399.00nm	6.0mb		1.1s	58.60nm	5.5mb		ASS	92.65	47 P	23 43.00	-0.7			
AKU	81.44	21 iP	22 50.00	1.3	IMA	88.13	337 iPd	23 22.50	0.2	NB2	92.73	29 P	23 44.00	0.4		
	1.0s	32.00nm	5.1mb			e	23 52.20	113km		1.4s	32.90nm	5.4mb				
ETOR	81.48	48 iPd	22 50.20	0.6	LMR	88.19	47 eP	23 22.80	-0.1	ARV	92.87	47 P	23 44.00	-0.7		
ECRI	81.55	46 iPd	22 50.50	0.6		1.2s	71.40nm	5.6mb	FVI	92.91	44 P	23 45.20	0.5			
ECP	81.58	36 iPc	22 49.00	0.1	FRF	88.32	46 iPc	23 23.40	-0.1	BHG	93.02	43 eP	23 45.70	0.4		
	1.1s	363.00nm	6.1mb		1.1s	107.45nm	5.8mb		WET	93.09	41 eP	23 46.20	0.7			
ETA	81.82	36 eP	22 51.00	0.0	TTA	88.41	333 ePd	23 23.30	-0.4		1.8s	222.00nm	6.2mb			
	1.1s	247.00nm	5.9mb	VITF	88.45	42 P	23 24.01	0.0	AZI	93.17	48 P	23 46.50	0.5			
INK	81.84	342 iPd	22 51.10	0.3	BNI	88.52	45 Pd	23 25.10	0.5	CLL	93.26	39 iP	23 47.00	0.8		
	1.1s	285.00nm	6.0mb	RRL	88.58	45 P	23 25.38	0.3		1.6s	79.00nm	5.8mb				
	pP		23 21.00	116km	LPL	88.62	44 eP	23 25.60	0.4		e	23 57.00	31kmX			
BST	81.90	40 P	22 52.42	0.9		1.0s	94.00nm	5.8mb	SDI	93.44	49 P	23 47.40	0.1			
BOH	82.73	46 P	22 56.84	0.8	LPG	88.63	44 eP	23 25.70	0.4	KHC	93.55	41 iPd	23 48.50	0.8		
ELYF	82.76	46 P	22 56.23	0.1		1.0s	110.00nm	5.9mb		1.1s	16.50nm	5.3mb				
ISSF	82.87	46 P	22 57.60	0.8	HAU	88.67	42 eP	23 24.70	-0.4		e	24 19.80	119km			
MADF	82.88	46 P	22 56.95	0.2		0.9s	16.40nm	5.1mb	BRG	93.84	39 iP	23 49.60	0.7			
ATE	82.95	46 P	22 57.47	0.4	Z	20s	0.08um	4.1Msz		1.2s	75.00nm	5.9mb				
LHE	82.97	46 P	22 57.99	0.7	PZZ	88.76	45 P	23 26.10	0.3		i	24 14.80	93kmX			
ESCF	83.04	46 P	22 58.21	0.6	ENN	88.76	39 iPd	23 26.00	0.6		i	24 20.60				
OGE	83.13	46 P	22 58.45	0.5		0.9s	121.00nm	6.0mb		i		24 26.80				
JAU	83.18	46 P	22 59.36	0.9	MEM	88.79	39 P	23 26.20	0.7	HFS	93.91	30 eP	23 48.90	-0.1		
ERQO	83.31	48 iPd	22 59.70	0.8	EMS	88.82	44 ePd	23 26.60	0.5		1.7s	89.50nm	5.9mb			
BTH	83.31	46 iPc	23 00.00	1.1	STV	88.89	46 P	23 26.51	0.2	DUI	93.92	49 P	23 47.50	-2.1		
	e(PcP)		23 11.00		LSD	88.91	44 P	23 27.23	0.6	PRU	94.20	40 Pd	23 51.30	0.7		
MBC	83.68	351 iPd	23 00.60	0.5	LOMF	88.91	43 P	23 26.22	-0.1		1.0s	28.90nm	5.6mb			
	1.0s	142.00nm	5.8mb	SBF	88.92	46 eP	23 25.90	-0.6	SGO	94.53	50 P	23 52.50	0.2			
	pP		23 30.50	116km		1.0s	96.00nm	5.8mb	MGR	94.71	50 P	23 53.00	-0.2			
EPF	83.69	46 iPc	23 01.50	0.6	RSP	88.94	45 P	23 27.33	0.7	PTJ	95.09	44 eP	23 55.30	0.4		
	1.1s	171.70nm	5.9mb	BSF	88.94	42 eP	23 25.90	-0.6	TDS	95.30	51 P	23 56.00	0.1			
LPF	83.79	41 iPc	23 01.20	0.0		0.9s	18.00nm	5.2mb	KSP	95.32	39 iP	23 56.60	0.8			
TOA	83.80	334 iPd	23 01.00	0.7	ENR	88.95	46 P	23 25.79	-0.8		1.0s	43.00nm	5.8mb			
	id		23 31.60	115km	DIX	89.16	44 ePd	23 28.40	0.6		e	24 21.00	90kmX			
GRR	83.99	41 eP	23 02.30	0.1	MOF	89.17	42 P	23 27.11	-0.5	VKA	95.35	42 iPd	23 57.00	1.1		
MFF	84.08	43 eP	23 02.00	0.1	ECH	89.23	42 P	23 27.83	0.0	ZST	95.87	42 iP	23 58.50	0.2		
ESK	84.27	34 iPc	23 04.00	0.6	IMI	89.25	46 P	23 27.33	-0.7		e	27 49.80				
	0.8s	80.00nm	5.7mb	ROB	89.28	46 P	23 27.74	-0.4	BCAO	96.08	86 iPc	24 00.00	0.0			
EKA	84.30	34 Pd	23 03.60	0.0	CDF	89.34	42 P	23 28.04	-0.3		0.4s	25.00nm	6.1mb			
	1.0s	76.20nm	5.5mb	BBS	89.38	43 P	23 28.35	-0.2		ic		24 13.50	45kmX			
FLN	84.32	40 eP	23 04.10	0.3	WLS	89.39	42 P	23 28.00	-0.5		ic	24 28.50				
	0.9s	217.55nm	6.1mb	SDN	89.40	325 eP	23 28.60	0.3		id		28 27.50				
Z	20s	0.15um	4.4Msz	WTS	89.47	38 iPd	23 39.90	11.2X	STK	128.64	223 iPKPd	29 39.10	-0.2			
LFF	84.35	44 eP	23 04.20	0.2		1.0s	143.00nm			1.2s	13.00nm					
LDF	84.51	41 iPc	23 05.10	0.3	WIT	89.49	37 eP	23 30.50	1.7	MAIO	128.90	45 ePKP	29 40.00	0.2		
LPO	84.61	45 iPc	23 05.40	0.0	FIN	89.51	46 P	23 28.56	-0.6	CTA	131.01	239 iPKPd	29 43.90	-0.2		
RJF	84.96	44 eP	23 07.00	-0.1	MMK	89.54	44 ePd	23 30.30	0.8		1.3s	82.69nm				
	1.1s	151.40nm	5.8mb	CKI	89.59	46 P	23 29.00	-0.5	OIS	136.36	235 ePKP	29 53.00	-1.3			
Z	22s	0.17um	4.4Msz	GWf	89.63	41 P	23 29.86	0.3	QUE	137.34	48 ePKP	29 57.20	1.1			
PMR	84.96	333 ePd	23 06.70	0.0	FEL	89.77	42 eP	23 30.26	-0.1		1.0s	28.50nm				
	1.2s	69.30nm	5.4mb	PCP	89.79	45 P	23 30.00	-0.5	WB5	140.89	232 ePKP	29 55.50	-7.1X			
ESEL	84.99	50 iPd	23 07.60	0.2	PGF	89.92	48 eP	23 30.90	-0.3		i	30 02.10				
LSF	85.14	43 iPc	23													

LZH 148.04 358 PKPd 30 15.00 0.6
1.5s 53.00nm
POO 148.28 61 iPKPc 30 15.50 0.4
MBL 149.90 213 ePKP 30 17.70 0.2
e 30 22.00
GKN 150.55 34 PKP 30 19.00 0.5
NANU 150.80 205 ePKP 30 24.10 5.4X
0.3s 7.00nm
KKN 151.07 33 PKP 30 19.60 0.2
DMN 151.12 34 PKP 30 20.10 0.6
GUN 151.30 32 PKP 30 20.40 0.5
PKI 151.31 33 PKP 30 20.00 0.1
GBA 153.27 67 PKPd 30 22.50 0.0
1.0s 34.40nm
KMI 158.99 360 PKP 30 30.00 0.1
pPKP 31 02.00
CHG 164.81 14 iPKPd 30 36.00 0.4
1.2s 40.23nm
BDT 166.33 15 iPKPc 30 38.20 1.4
1.3s 106.40nm
NST 168.11 12 ePKP 30 39.30 1.2
IPM 178.21 71 ePKPc 30 43.10 1.2
e 32 32.10
S.D. = 0.8 on 298 of 311 obs.

? OCT 21, 1990 15h 21m 02.17±1.17s
11.872 S ±13.5km 114.237 E ±23.6km
DEPTH = 33.0km (normal)
SOUTH OF BALI ISLAND (284)

MBL 10.68 151 eP 23 37.00 1.0
0.3s 4.00nm 5.2mb X
eS 25 39.00
NANU 10.70 174 eP 23 35.00 -1.3
0.2s 12.00nm 5.8mb X
eS 25 37.00
MRWA 17.34 175 eP 25 04.00 0.7
eS 28 17.00
COOL 19.97 162 eP 25 40.00 5.3X
MUN 20.09 175 eP 25 41.00 5.1X
WB5 20.92 115 eP 25 44.00 -0.6
CHG 34.02 333 eP 27 45.50 0.1
S.D. = 1.3 on 5 of 7 obs.

% OCT 21, 1990 15h 36m 41.69±1.05s
39.106 N ±7.7km 27.696 E ±12.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.4 (ISK).

IZM 0.78 206 ePg 36 57.00 0.0
eSg 37 08.90
EDC 1.25 6 ePn 37 04.80 0.0
KCT 1.25 24 iPn 37 04.80 -0.1
BNT 1.26 8 iPn 37 05.30 0.2
EZN 1.28 305 ePn 37 05.40 0.0
S.D. = 0.2 on 5 of 5 obs.

? OCT 21, 1990 16h 04m 22.26±1.46s
0.413 S ±14.1km 124.318 E ±35.6km
DEPTH = 33.0km (normal)
4.7mb (3 obs.) 3.4Msz (1 obs.)
MOLUCCA SEA (269)

MBL 21.08 192 eP 09 06.20 -0.1
WB5 21.71 154 eP 09 10.90 -1.7
i 09 15.80
ASPA 24.92 159 iPd 09 44.50 0.5
0.9s 15.90nm 4.6mb
Z 18s 0.10um 3.4Msz
OIS 24.99 144 iPd 09 44.80 0.2
0.6s 20.00nm 4.9mb
MAT 38.97 18 eP 11 47.00 -0.2
0.7s 9.59nm 4.7mb
CAN 41.65 149 eP 12 10.50 1.1
S.D. = 1.2 on 6 of 6 obs.

OCT 21, 1990 16h 05m 19.56±0.84s
23.789 N ±5.8km 121.574 E ±10.8km
DEPTH = 14.1 ± 4.8 km
3.6mb (1 obs.)
TAIWAN (244)

TWD 0.29 4 iPc 05 25.90 0.0
eS 05 29.70
TWF1 0.50 210 iPd 05 29.00 -0.7
eS 05 37.20

TWO 0.83 306 iPd 05 34.90 -0.3
TWC 0.85 17 ePc 05 35.90 0.3
eS 05 48.60
TWG 1.07 206 ePc 05 39.40 0.1
TWK 1.12 243 ePd 05 40.60 0.3
TWZ 1.30 0 eP 05 43.00 -0.2
ANP 1.39 358 eP 05 44.30 -0.2
eS 06 04.50
CHTO 21.65 261 eP 10 12.00 0.4
1.0s 2.75nm 3.6mb
S.D. = 0.4 on 9 of 9 obs.

% OCT 21, 1990 16h 18m 30.33±0.52s
48.101 N ±4.5km 0.725 W ±5.4km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.7 (LDG).

LPF 0.22 252 Pg 18 35.10 0.0
Sg 18 38.00
GRR 0.30 343 Pg 18 36.40 -0.2
Sg 18 40.00
LDF 0.64 39 Pg 18 43.80 0.7
Sg 18 52.50
FLN 0.68 14 Pg 18 43.70 -0.1
Sg 18 52.30
MFF 1.55 165 Pn 18 58.20 0.2
Pg 19 00.20
Sg 19 21.20
LSF 2.41 139 Pn 19 11.00 0.6
Pg 19 17.00
Sg 19 49.20
TCF 2.70 131 Pn 19 14.40 -0.2
Sg 19 57.80
BGF 2.88 121 Pn 19 17.20 0.1
Pg 19 25.50
Sg 20 04.40
MAF 2.93 129 Pg 19 26.60 8.8X
Sg 20 05.90
SSF 3.05 108 Pn 19 18.50 -0.9
Pg 19 28.40
Sg 20 08.00
RJF 3.19 150 Pg 19 31.00 9.5X
Sg 20 12.80
LOR 3.21 103 Pg 19 31.40 9.7X
Sg 20 13.20
LBF 3.38 108 Pn 19 24.00 -0.2
Sg 20 18.60
S.D. = 0.5 on 10 of 13 obs.

? OCT 21, 1990 16h 44m 31.11±6.75s
30.483 N ±94.7km 82.157 E ±20.4km
DEPTH = 33.0km (normal)
TIBET (306)

GKN 3.29 138 P 45 22.00 0.4
KKN 3.83 134 P 45 29.10 -0.3
DMN 3.86 137 P 45 29.90 0.1
PKI 4.06 135 P 45 32.40 -0.5
GUN 4.14 127 P 45 34.20 0.2
NDI 4.66 249 eP 45 41.00 0.0
S.D. = 0.4 on 6 of 6 obs.

? OCT 21, 1990 17h 13m 38.62±16.46s
43.027 N ±98.7km 0.252 E ±117.km
DEPTH = 10.0km (geophysicist)
FRANCE (538)

EPF 0.06 87 Pg 13 41.00 0.0
Sg 13 43.80
LPO 1.79 22 Pg 14 10.20 0.5
Sg 14 36.40
LFF 1.94 10 Pg 14 12.00 0.0
Sg 14 41.80
CAF 2.31 34 Pg 14 19.00 1.7X
Sg 14 50.40
RJF 2.45 21 Pg 14 18.80 -0.5
Sg 14 55.00
S.D. = 0.7 on 4 of 5 obs.

& OCT 21, 1990 17h 16m 58.70s
36.140 N 120.240 W
DEPTH = 10.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.9 (BRK).

PKEM 0.13 126 iPd 17 01.80 -0.1

PHAM 0.33 203 iPd 17 05.10 -0.4
PRI 0.34 270 iPd 17 05.20 -0.7
LLA 0.74 310 iP 17 11.60 -1.6
PRS 0.93 282 ePd 17 15.30 -1.2
FRI 0.95 27 iPd 17 14.40 -2.4
BCH 0.96 172 eP 17 15.30 -1.8
SAO 1.15 303 iP 17 18.40 -1.9
ABL 1.53 147 eP 17 23.00 -3.3
BLP 1.58 185 eP 17 24.60 -2.2
ARN 1.59 320 eP 17 24.80 -2.2
MHC 1.64 317 ePc 17 25.40 -2.5
GCC 1.67 303 eP 17 26.00 -2.1
CMB 1.90 357 ePc 17 29.20 -2.2
eS 17 53.40
TNP 3.10 50 eP 17 47.00 -1.7
15 obs. associated

% OCT 21, 1990 17h 19m 23.66±1.45s
38.168 N ±11.0km 29.456 E ±14.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.1 (ISK).

KHL 0.16 19 iPg 19 26.40 -1.1
ISg 19 34.40
ALT 1.02 30 iPn 19 43.60 0.5
BCK 1.14 128 ePn 19 45.00 -0.1
IZM 1.74 278 ePn 19 45.90 -8.3X
IZI 2.17 0 ePn 20 01.20 0.9
KCT 2.25 338 iPn 20 02.30 0.8
BNT 2.49 332 ePn 20 03.80 -1.1
S.D. = 1.2 on 6 of 7 obs.

? OCT 21, 1990 17h 36m 56.82±2.04s
31.493 S ±20.7km 69.563 W ±29.5km
DEPTH = 130.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTBS 0.19 151 iPd 37 15.00 -0.1
RTCB 0.65 90 iPd 37 17.00 -0.2
ZON 0.76 94 iPd 37 18.80 0.8
eS 37 31.80
RTCV 0.95 113 iPc 37 19.50 -0.1
eS 37 34.00
RTLL 0.95 80 iPc 37 19.10 -0.5
MDZ 1.51 157 eP 37 25.40 -0.1
IS 38 45.70
S.D. = 0.6 on 6 of 6 obs.

* OCT 21, 1990 18h 02m 01.51±1.63s
13.430 S ±17.0km 166.060 E ±22.3km
DEPTH = 78.5 ± 12.2 km
4.4mb (1 obs.)
VANUATU ISLANDS (186)

BKM 4.71 154 iPd 03 10.80 -0.8
HNR 7.19 303 eP 03 46.00 0.0
eS 05 10.00
SVO 7.46 304 eP 03 50.00 0.3
eS 05 11.00
DZM 8.60 178 iPc 04 06.60 1.0
IS 05 42.90
ASPA 32.07 247 eP 08 22.40 -0.9
0.8s 4.70nm 4.4mb
Z 23s 0.10um 3.4MszX
PKI 88.05 299 P 14 44.80 -0.4
KKN 88.22 299 P 14 45.80 0.0
DMN 88.32 299 P 14 46.40 0.0
BCAD 146.74 257 iPKPd 21 36.00 0.8
0.5s 12.00nm
S.D. = 0.8 on 9 of 9 obs.

OCT 21, 1990 19h 05m 47.72±0.15s
20.894 S ±4.1km 177.939 W ±3.8km
DEPTH = 497.6km (2 depth phases)
5.3mb (43 obs.)
FIJI ISLANDS REGION (181)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 27C
Centroid Location:
Origin Time 19:05:58.7 0.8
Lat 20.26S 0.08 Lon 178.23W 0.05
Dep 517.7 3.3 Half-duration 1.6
Moment Tensor; Scale 10¹⁷ Nm
Mrr=-1.02 0.05 Mtt=0.37 0.09

21d 19h

Mff= 0.65 0.09 Mrt=-0.16 0.08				GUMO				KMI			
Mrf=-0.49 0.08 Mtf=-0.17 0.07				PJC				BDT			
Principal Axes:				COOL				CHG			
T Val= 0.82 Plg=13 Azm= 74				MBL				LZH			
N 0.36 11 167				MEKA				INK			
P -1.18 73 295				KLB				PKI			
Best Double Couple:Ma=1.0+10+17				NWA0				KKN			
NP1:Strike=150 Dip=33 Slip=-110				RKG				DMN			
NP2: 354 59 -77				BAL				GKN			
SVA 4.38 309 eP 07 04.00 -5.9X				MUN				BNH			
SGE 5.11 309 iPc 07 17.00 0.5				MRWA				QUE			
NDF 5.36 305 ePc 07 22.00 3.3X				NANU				PDCR			
PVC 13.35 281 iPd 08 42.90 1.4				SPA				MAIO			
BKM 13.43 281 iPd 08 43.40 1.0				KKM				SOB1			
HBZ 16.96 190 P 09 20.80 3.0X				MAT				BUL			
WLZ 17.80 197 P 09 29.50 3.6X				OFUJ				KRI			
NOZ 18.00 190 P 09 30.10 2.2				KUSJ				NB2			
PGZ 20.27 193 P 09 49.70 0.1				AOMJ				HFS			
MNG 20.45 194 P 09 50.30 -1.0				ADK				LWI			
KIW 20.82 195 P 09 54.70 0.0				MRRJ				EKA			
MTW 20.96 194 P 09 55.70 -0.3				SMY				KAS			
CAW 21.01 195 P 09 55.70 -0.8				ASAJ				BBTK			
WDW 21.18 195 P 09 57.50 -0.6				SDN				HRI			
MRW 21.21 195 P 09 58.30 -0.1				SSE				VRI			
MOW 21.26 194 P 09 58.30 -0.6				PRS				WIT			
SNZO 21.29 195 eP 10 02.00 2.9X				PCC				KSP			
TCW 21.31 196 P 09 58.70 -0.5				SAO				8MR			
THZ 22.20 198 P 10 08.60 1.1				PRI				MML			
KHZ 22.63 197 eP 10 11.40 0.1				MHC				CLL			
LTZ 23.32 198 P 10 16.10 -1.6				ARN				PSN			
MQZ 24.06 197 P 10 24.10 -0.2				MWC				BRG			
MMCZ 26.31 201 P 10 43.10 -1.3				PLM				WTS			
MHZ 26.31 201 P 10 42.90 -1.6				SBB				PRNI			
AFR 26.79 88 iP 10 48.50 -0.2				PEC				HRT			
PAE 26.95 88 iP 10 49.90 -0.2				FRI				PRU			
PPT 26.97 88 iP 10 50.20 -0.1				ISA				r			
PPN 27.11 88 iP 10 51.40 -0.2				CMB				MOX			
TVO 27.23 88 iP 10 52.30 -0.4				ORV				HOF			
BRS 27.45 251 iPc 10 55.20 0.6				WDC				ENN			
COO 28.76 244 iPc 11 07.80 1.8				CLC				SRO			
PMO 29.14 83 iP 11 09.00 -0.3				TPC				BUD			
VAH 29.33 84 iP 11 10.30 -0.6				GSC				MEM			
TPT 29.41 84 iP 11 11.30 -0.3				LBFM				ZST			
RUV 29.57 84 iP 11 12.60 -0.4				KDC				BCK			
RMO 30.95 253 iPc 11 24.20 -0.6				MAW				GRF			
CNB 32.05 236 iPc 11 35.80 1.6				TNP				KHC			
CTA 33.51 265 iPc 11 45.70 -0.8				IPM				SNF			
CMS 34.04 244 eP 11 52.00 1.1				SNG				PVL			
TOO 35.71 234 iPc 12 06.60 1.8				TTA				WET			
STK 37.67 245 iPd 12 21.90 1.0				PMR				BZS			
OIS 39.62 263 ePc 12 36.50 -0.5				BJI				BNT			
RKT 39.79 101 iP 12 39.90 1.6				TOA				DOU			
ASPA 44.49 257 iPd 13 15.20 -0.5				DPW				SOP			
WB5 44.59 263 iPd 13 15.30 -1.2				PNT				DIM			
FORR 49.15 247 iPd 13 50.30 -0.9				NNT				PLD			
MTN 49.23 271 eP 13 50.30 -1.6				LOE				PCB			
GUA 50.03 310 eP 13 56.80 -1.0				ALO				FUR			
				ANMO							
				FBA							
				IMA							
				BW06							

21d 19h

BHG 151.84 344 ePKP 24 45.90 6.3X
 EZN 151.96 318 ePKP 24 46.00 6.1X
 VTS 152.01 325 iPKPc 24 48.00 7.8X
 FLN 152.12 4 ePKP 24 46.20 6.3X
 IZM 152.14 314 ePKP 24 47.00 6.7X
 CDF 152.23 353 ePKP 24 46.90 6.7X
 LDF 152.31 3 ePKP 24 46.60 6.4X
 MMB 152.41 323 ePKP 24 47.00 6.4X
 GRR 152.47 4 ePKP 24 47.20 6.8X
 PTJ 152.58 339 ePKP 24 48.10 7.3X
 KKB 152.58 324 iPKPc 24 46.00 5.2X
 SOTA 152.71 346 iPKPc 24 40.30 -0.7
 HAU 152.73 354 ePKP 24 48.10 7.3X
 LPF 152.81 5 ePKP 24 48.00 7.1X
 BSF 152.86 353 ePKP 24 48.20 7.1X
 FVI 152.91 344 PKP 24 47.00 6.0X
 OGA 153.08 346 ePKP 24 41.70 0.1
 VAY 153.23 324 ePKP 24 49.00 7.3X
 LOR 153.65 357 ePKP 24 49.90 7.8X
 CTI 153.71 345 PKP 24 49.00 6.7X
 SSF 153.87 358 ePKP 24 50.40 8.0X
 LBF 153.93 357 ePKP 24 50.60 8.1X
 SMF 154.27 357 ePKP 24 51.30 8.4X
 MFF 154.29 4 ePKP 24 51.20 8.3X
 SAL 154.39 346 PKP 25 01.00 17.9X
 BGF 154.39 359 ePKP 24 52.00 8.9X
 LPL 155.14 352 ePKP 24 53.20 8.8X
 LPG 155.16 352 ePKP 24 53.50 8.9X
 BDI 155.83 345 PKP 24 54.00 8.8X
 BCAO 157.11 227 iPKPd 24 47.50 -0.1
 LIC 163.88 154 PKPc 24 54.90 0.3
 KIC 164.12 155 PKPc 24 55.00 0.1
 TIC 164.26 153 PKPc 24 55.30 0.3
 LKO 166.52 146 PKP 24 56.36 -0.5
 S.D. = 1.0 on 135 of 199 obs.

* OCT 21, 1990 20h 02m 41.81s
 60.325 N 151.776 W
 DEPTH = 61.8km
 KENAI PENINSULA, ALASKA (14)
 <AGS-P>.

NNL 0.37 140 iP 02 53.49 0.7
 RDT 0.40 309 iP 02 52.50 -0.6
 NKA 0.50 32 iP 02 55.40 1.5
 RED 0.50 281 iP 02 53.48 -0.7
 RSO 0.50 286 iP 02 53.66 -0.6
 HOM 0.67 174 eP 02 55.85 -0.1
 BRLK 0.72 141 iP 02 55.92 -0.6
 SLKM 0.79 76 eP 02 56.74 -0.7
 CNPM 0.85 161 eP 02 57.51 -0.6
 SPU 0.87 351 iP 02 57.67 -0.8
 CKL 0.92 343 iP 02 58.45 -0.6
 CRP 0.96 349 iP 02 59.58 -0.2
 BGL 0.99 343 iP 02 59.55 -0.5

CGLM 0.99 354 iP 02 59.52 -0.5
 OPT 0.99 228 eP 02 59.64 -0.4
 NCG 1.10 350 iP 03 01.09 -0.4
 SEW 1.18 100 eP 03 01.39 -1.1
 SUA 1.25 23 eP 03 03.11 -0.4
 AUE 1.26 220 eP 03 03.29 -0.3
 PDB 1.33 247 eP 03 02.97 -1.5
 PMS 1.43 49 iP 03 05.67 -0.2
 PWA 1.62 34 eP 03 09.27 0.8
 SKT 1.67 4 eP 03 08.43 -0.7
 CDD 1.69 215 eP 03 07.53 -2.0
 PLRM 1.81 44 eP 03 10.03 -1.1
 GHO 2.01 42 eP 03 12.74 -1.3
 KNIM 2.01 88 eP 03 10.91 -3.0
 MTU 2.09 98 eP 03 13.01 -2.1
 CUT 2.21 19 eP 03 15.89 -0.8
 GLI 2.38 74 eP 03 17.38 -1.7
 KLU 3.09 65 eP 03 25.26 -4.0
 31 obs. associated

? OCT 21, 1990 20h 43m 17.22±6.05s
 15.067 N ±15.7km 60.563 W ±64.4km
 DEPTH = 31.7 ± 15.9 km
 LEEWARD ISLANDS (92)
 ML 3.1 (FDF).

FDF 0.66 240 ePd 43 30.20 0.0
 0.1s 3.80nm
 S 43 40.50
 BBL 0.99 297 ePd 43 34.98 0.0
 S 43 49.80
 SFG 1.33 333 eP 43 39.60 -0.1
 DOG 1.40 313 eP 43 40.68 -0.1
 S 43 58.10
 PAG 1.44 312 eP 43 41.40 0.0
 S 43 59.40
 SEG 1.61 326 eP 43 43.88 0.1
 S 44 04.50
 S.D. = 0.1 on 6 of 6 obs.

* OCT 21, 1990 20h 51m 45.72±0.63s
 0.619 N ±10.1km 126.631 E ±14.9km
 DEPTH = 33.0km (normal)
 4.9mb (7 obs.)
 MOLUCCA PASSAGE (266)

WB5 21.74 160 iPc 56 36.80 0.4
 eS 00 32.50
 MBL 22.64 197 eP 56 45.30 0.0
 0.5s 30.00nm
 OIS 24.58 150 iPc 57 04.00 -0.2
 0.9s 53.00nm
 ASPA 25.15 164 eP 57 09.20 -0.5
 0.4s 96.20nm
 eS 01 31.10
 NANU 25.45 204 eP 57 13.00 0.6
 IPM 25.87 279 ePd 57 18.60 2.1
 MRWA 31.36 198 eP 58 05.00 -0.7
 BAL 32.46 196 eP 58 14.00 -1.3
 CHTO 32.63 305 eP 58 15.00 -1.9
 1.0s 2.50nm
 KLB 33.12 194 eP 58 20.40 -0.6
 MUN 33.89 196 eP 58 27.20 -0.5
 STK 35.29 158 iPc 58 39.00 -0.7
 0.8s 16.00nm
 BRS 37.51 140 iPc 58 57.50 -1.1
 BJI 40.38 348 eP 59 21.50 -0.7
 1.0s 18.00nm
 BFD 40.39 160 ePd 59 24.40 2.0
 BWA 40.40 152 eP 59 24.00 1.4
 LZH 41.14 332 eP 59 31.50 2.7
 CAN 41.41 152 eP 59 31.10 0.3
 GUN 47.52 308 P 00 19.20 -1.2
 PKI 47.73 308 P 00 22.70 0.6
 KKN 47.93 308 P 00 21.80 -1.7
 DMN 47.99 308 P 00 23.00 -1.0
 GKN 48.54 308 P 00 26.40 -1.7
 HYB 50.13 292 eP 00 42.00 1.6
 GBA 50.37 287 Pc 00 43.70 1.6
 0.5s 2.70nm
 MAIO 71.33 308 eP 03 05.00 0.4
 CNCB 158.41 139 ePKP 11 35.00 -7.4X
 LPB 158.53 138 (PKP) 11 40.00 -2.4X
 ZOBO 158.71 138 ePKP 11 48.00 5.2X

S.D. = 1.4 on 26 of 29 obs.

* OCT 21, 1990 21h 18m 25.33±0.85s
 37.510 N ±11.0km 71.154 E ± 8.7km
 DEPTH = 33.0km (normal)
 3.5mb (1 obs.)
 AFGHANISTAN-USSR BORDER REGION (717)

QUE 8.10 207 eP 20 23.70 0.0
 eS 21 41.00
 NDI 10.16 148 iPc 20 52.00 0.0
 0.5s 38.73nm
 GKN 14.77 126 P 21 53.40 -0.3
 KKN 15.33 125 P 22 01.00 -0.1
 DMN 15.34 126 P 22 01.50 0.2
 PKI 15.56 125 P 22 04.00 -0.2
 GUN 15.64 123 P 22 05.70 0.4
 NB2 43.65 322 P 26 28.20 0.0
 0.6s 0.60nm
 S.D. = 0.3 on 8 of 8 obs.

* OCT 21, 1990 22h 44m 56.55s
 63.227 N 150.984 W
 DEPTH = 14.0km
 CENTRAL ALASKA (1)
 <AGS-P>.

HUR 0.66 112 iP 45 09.55 0.2
 eS 45 19.25
 CUT 0.89 158 iP 45 13.71 0.5
 eS 45 26.09
 RND 0.98 78 eP 45 14.29 -0.5
 eS 45 28.64
 MCK 1.05 60 eP 45 15.79 -0.2
 eS 45 30.46
 SKT 1.28 192 eP 45 19.40 -0.5
 NEA 1.60 31 eP 45 24.20 -0.2
 eS 45 45.03
 PWA 1.66 162 eP 45 25.92 0.6
 GHO 1.75 146 eP 45 26.90 0.3
 SUA 1.77 176 eP 45 27.74 0.7
 WRH 1.79 44 eP 45 27.43 0.2
 eS 45 52.55
 PLRM 1.85 151 iP 45 28.43 0.3
 SML 1.88 138 eP 45 28.49 -0.1
 NCG 1.91 197 iP 45 28.58 -0.5
 CGLM 1.99 194 eP 45 29.74 -0.4
 CCB 2.00 43 eP 45 31.52 1.3
 BGL 2.08 199 eP 45 31.42 -0.1
 PMS 2.10 161 eP 45 32.77 1.0
 SPU 2.11 194 eP 45 31.76 -0.2
 CKL 2.13 198 eP 45 32.59 0.3
 HDA 2.14 55 eP 45 34.25 1.9
 FBA 2.19 38 eP 45 35.07 2.1
 SCM 2.20 128 eP 45 35.60 2.4
 TTA 2.31 265 eP 45 35.86 1.1
 GLM 2.37 40 eP 45 36.92 1.3
 TOA 2.49 115 eP 45 37.96 0.7
 KLU 2.93 124 eP 45 44.93 1.3
 26 obs. associated

OCT 21, 1990 22h 53m 33.61±0.30s
 8.911 S ± 5.7km 123.843 E ± 7.3km
 DEPTH = 122.3km (4 depth phases)
 5.0mb (18 obs.)
 FLORES ISLAND REGION (286)
 CENTROID, MOMENT TENSOR (HRV)
 Date Used: GDSN
 L.P.B.: 15S, 22C
 Centroid Location:
 Origin Time 22:53:35.1 1.2
 Lat 8.58S 0.12 Lon 123.26E 0.12
 Dep 64.7 9.4 Half-duration 1.5
 Moment Tensor: Scale 10¹⁶ Nm
 Mrr=-1.72 0.31 Mtt=-2.42 0.43
 Mff= 4.14 0.60 Mrt= 3.65 0.43
 Mrf= 0.87 0.46 Mtf= 1.23 0.38
 Principal Axes:
 T Vol= 4.82 Plg=17 Azm=288
 N 0.93 43 35
 P -5.75 42 183
 Best Double Couple: Mo=5.3*10¹⁶
 NP1: Strike=335 Dip=47 Slip=-159
 NP2: 230 74 -45

MTN 8.16 119 iPd 54 26.20 -64.5X
 KNA 8.33 145 eP 55 27.40 -5.6X

21d 22h

MBL	12.78	197	eP	56	51.00	-1.3	BJI	1.5s	28.00nm	4.9mb	ETOR	2.09	154	eP	13	06.50	-6.7
	0.4s	39.00nm		56	30.70			49.22	352	eP	02	09.50		eS	13	24.80	
					5.3mb	X		0.6s	9.00nm	4.8mb				eP	13	14.00	-0.2
NANU	15.75	210	eP	58	43.00		GBA	51.21	295	P	02	27.00		eS	13	38.00	
	0.3s	32.00nm		57	09.00	-0.8		0.7s	69.30nm	5.7mb	EPF	2.68	82	Pn	13	19.60	-2.1
					5.1mb		HYB	51.84	300	ePd	02	29.50		Sn	13	47.80	
				57	15.00									eP	13	31.60	0.7
KKM	16.69	333	ePc	59	55.00		GUN	51.85	316	P	02	31.40		eS	14	01.80	
	1.5s	204.90nm		57	25.30	3.6X	PKI	51.96	316	P	02	31.90		Pn	13	38.00	0.5
ASPA	17.55	148	eP	57	28.00	-4.1X	KKN	52.18	316	P	02	33.50		Sn	14	20.50	
	0.6s	191.10nm			5.5mb		DMN	52.19	315	P	02	33.80		Pn	13	45.00	-0.1
Z	22s	0.60um			4.9Msz		GKN	52.76	315	P	02	37.80		Sn	14	31.00	
				00	23.00		NDI	58.48	311	iP	03	17.00		Pn	13	46.20	-0.7
MEKA	18.31	195	eP	57	39.20	-6.1X	QUE	67.03	308	iPd	04	14.50		Sn	14	34.20	
				57	35.00		MAW	70.98	201	iP	04	40.50		Pn	14	01.00	-0.2
OIS	19.12	129	iPd	57	48.00	-1.8	MAID	75.24	311	eP	05	05.00		Sn	14	59.40	
	0.8s	152.00nm			5.4mb		TAB	85.75	309	eP	06	02.00		Pn	14	07.60	1.4
MRWA	21.50	199	iPd	58	14.20	0.3	FBA	97.31	25	eP	07	08.00		Sn	15	09.00	
	0.3s	12.00nm			4.7mb		ALO	127.32	53	ePKP	12	26.00					
				58	28.00	60kmX	KIC	129.01	271	(PKP)	12	30.40					
COOL	22.01	186	eP	58	18.50	-0.4	LKO	130.12	275	PKP	12	32.56					
	0.3s	6.00nm			4.4mb			0.6s	8.50nm								
				58	37.00	85kmX	JFO	147.05	202	ePKP	13	01.40					
FORR	22.19	170	iPd	58	19.80	-0.8	NNA	150.78	135	iPKP	13	14.50					
				58	36.00	72kmX		0.8s	13.43nm								
BAL	22.59	196	iPd	58	25.10	0.6	CNCB	151.90	155	ePKP	13	13.00					
				58	22.50												
PMG	23.02	93	eP	58	30.00	1.2	LPB	152.09	155	ePKP	13	13.00					
	0.9s	50.42nm			4.9mb		ZOBO	152.32	155	PKP	13	13.00					
KLB	23.27	193	eP	58	31.20	0.1		Z	20s	0.12um							
	0.4s	17.00nm			4.8mb												
MUN	24.02	196	eP	58	32.00		PDCR	152.79	219	ePKP	13	18.50					
				58	38.00	-0.4	SIV	154.78	169	PKP	13	19.40					
				59	03.00	119km											
				03	08.00												
CTA	24.34	120	iPc	58	41.80	0.2											
	1.0s	65.00nm			5.1mb												
NWAO	24.67	193	eP	58	44.00	-0.5	ZON	0.52	92	eP	58	38.30					
				59	10.00	124km											
				03	23.00		MDZ	1.40	165	iP	58	46.60					
RKG	25.82	193	eP	59	00.00	4.9X											
				03	53.00		JACH	1.60	224	iPd	58	48.60					
QLP	26.12	135	eP	58	58.00	0.0											
				03	49.00		PEL	2.00	216	ePd	58	54.00					
IPM	26.40	300	ePc	59	01.70	1.0											
SNG	28.13	304	iPd	59	16.80	0.6	ROCH	2.05	225	iPc	58	54.50					
STK	28.18	147	iPd	59	16.10	-0.5											
	1.6s	59.00nm			5.0mb		SAN	2.24	211	eP	58	57.00					
ADE	29.29	154	eP	59	22.50	-4.1X											
RMO	29.38	130	eP	59	25.00	-2.4	LNV	3.01	216	iPc	59	05.00					
				00	00.00	168kmX											
				04	44.00												
CMS	30.37	141	eP	59	36.00	-0.1	CNCB	14.70	5	P	01	40.00					
				00	15.70	193kmX	ZOBO	15.23	4	P	01	51.00					
BFD	32.84	152	eP	59	57.00	-0.6											
				06	33.00												
BRS	32.93	128	iP	59	59.00	0.5											
NST	33.88	316	eP	00	08.20	1.4											
COO	33.90	133	eP	00	08.00	1.1											
				07	18.00												
BWA	33.96	142	iPc	00	09.80	2.4											
				01	09.50	303kmX											
TOO	34.60	149	eP	00	14.00	1.3											
CAN	34.92	143	iPc	00	16.60	1.1											
				07	21.40												
BDT	35.75	317	eP	00	24.50	1.9											
	0.8s	98.60nm			5.7mb												
CHG	36.91	318	ePd	00	34.00	1.7											
	1.0s	37.50nm			5.2mb												
CHTO	36.91	318	iPd	00	34.00	1.7											
	1.0s	40.00nm			5.2mb												
				01	02.00	123km											
KMI	39.59	329	eP	00	57.00	2.1											
SSE	39.86	356	Pc	00	55.50	-1.2											
	1.0s	12.00nm			4.6mb												
DZM	42.93	113	iPc	01	22.00	-0.2											
MAT	47.18	16	iPd	01	53.70	-2.0											
	1.3s	44.23nm			5.1mb												
LZH	48.56	338	eP	02	06.00	-0.5											

BN1 1.06 339 S 11 47.69
 PCP 1.07 63 P 11 37.60 -0.2
 RSP 1.09 2 P 11 37.74 -0.2
 LSD 1.39 358 S 11 52.17
 LPG 1.47 347 Pn 11 35.90 -2.4X
 LPL 1.49 347 P 11 49.40
 PGF 2.00 139 P 11 44.31 0.7
 SMF 3.51 318 Pn 12 03.09
 LBF 3.70 323 Pn 11 45.50 0.8
 CAF 3.78 285 Pn 11 49.20
 AVF 3.85 316 Pn 11 49.30
 BGF 3.96 310 Pn 11 49.73 -2.5X
 SSF 3.97 320 Pn 12 13.80 0.2
 LOR 3.97 325 Pn 12 16.40 0.0
 HAU 3.99 352 Pn 12 18.40 -0.1
 TCF 4.18 304 Pn 12 18.40 -0.1
 LSF 4.58 300 Pn 12 20.00 -0.2
 S.D. = 0.5 on 33 of 35 obs.

OCT 22, 1990 03h 50m 20.33 ± 0.29s
 36.933 N ± 0.4km 49.298 E ± 4.6km
 DEPTH = 10.0km (geophysicist)
 4.7mb (28 obs.)

WESTERN IRAN (347)

TEH 2.06 125 iPd 50 57.00 1.4
 TAB 2.62 297 eP 51 07.00 3.4X
 MAIO 8.22 91 ePn 52 22.00 -0.6
 0.8s 27.45nm 5.6mb X
 BBTk 13.30 288 eP 53 36.00 4.2X
 IZI 15.86 288 iP 54 10.00 4.8X
 QUE 16.17 109 eP 54 12.90 3.5X
 VRI 19.09 305 ePc 54 48.00 2.5X
 PGD 20.09 294 eP 55 02.00 5.2X
 MMB 20.31 291 eP 55 01.00 1.9
 VTS 20.80 294 iP 55 07.00 2.7X
 KKB 20.81 292 eP 55 06.00 1.7
 VAY 21.16 290 eP 55 08.70 0.9
 BMR 21.80 308 ePc 55 18.00 3.8X
 SKO 22.04 292 eP 55 08.50 -8.2X
 BZS 22.45 301 eP 55 21.50 0.8
 QHR 22.49 289 eP 55 24.50 3.3X
 SPC 24.35 309 eP 55 39.68 0.2
 NDI 24.80 101 eP 55 44.00 0.3
 SRO 25.18 305 eP 56 08.40 21.2X
 ZST 26.06 306 eP 56 03.40 8.0X
 KSP 27.29 311 eP 56 07.80 1.1
 NUR 28.32 334 eP 56 18.00 2.1
 KHC 28.55 307 eP 56 12.50 -5.6X
 MNS 28.56 292 P 56 22.50 4.2X
 PGD 29.25 296 P 56 27.00 2.3
 CTI 29.40 300 P 56 45.50 19.6X
 CLL 29.41 311 i(P) 56 26.80 1.0
 0.9s 11.00nm 4.7mb
 SUF 29.48 338 iP 56 26.30 0.0
 0.5s 6.50nm 4.7mb
 SOTA 29.82 302 iPc 56 29.50 -0.2
 0.6s 12.70nm 4.9mb
 BOB 30.90 297 P 56 50.00
 GKN 30.97 96 P 56 52.00 12.8X
 0.8s 22.00nm 5.1mb
 PGF 31.27 293 eP 56 42.30 -0.2
 0.7s 4.40nm 4.5mb
 DMN 31.52 97 P 56 44.80 -0.2
 0.8s 30.00nm 5.3mb
 KKN 31.58 96 P 56 45.60 0.1
 PKI 31.78 97 P 56 46.00 -1.4
 0.8s 9.00nm 4.7mb
 GUN 32.00 96 P 56 48.80 -0.6
 SBF 32.35 296 eP 56 52.00 0.1
 0.7s 15.45nm 5.0mb
 HFS 32.43 327 eP 56 51.60 -0.7
 0.6s 25.60nm 5.3mb

LPG 32.81 299 eP 56 56.00 -0.1
 0.6s 4.05nm 4.5mb
 LPL 32.82 299 eP 56 56.20 0.0
 0.4s 2.30nm 4.5mb
 BN1 32.87 298 P 57 01.00 4.5X
 SOD 33.09 344 iP 57 02.20 4.2X
 NB2 33.94 327 P 57 25.00
 0.7s 8.90nm 4.8mb
 GBA 34.22 125 Pd 57 10.80 2.5
 0.9s 7.90nm 4.6mb
 LOR 34.82 302 eP 57 11.90 -1.3
 0.8s 4.05nm 4.4mb
 SMF 34.83 301 eP 57 12.50 -0.8
 KEV 35.02 347 eP 57 28.00 13.4X
 SSF 35.06 301 eP 57 14.60 -0.6
 AVF 35.16 301 eP 57 15.30 -0.8
 0.6s 4.50nm 4.5mb
 MAF 35.72 300 eP 57 21.10 0.2
 0.6s 4.05nm 4.5mb
 TCF 35.96 300 eP 57 23.00 0.0
 0.6s 2.70nm 4.3mb
 CAF 36.14 298 eP 57 24.50 0.0
 0.5s 2.20nm 4.3mb
 RJF 36.50 299 eP 57 27.60 0.1
 LFF 37.08 298 eP 57 31.00 -1.3
 0.6s 7.20nm 4.6mb
 LDF 37.49 304 eP 57 34.50 -1.2
 MFF 37.58 301 eP 57 35.70 -0.8
 FLN 37.73 304 eP 57 36.40 -1.3
 0.6s 6.30nm 4.6mb
 GRR 37.98 304 eP 57 39.80 -0.1
 LPF 38.12 303 eP 57 41.10 0.1
 EKA 39.65 315 P 57 54.00 0.3
 0.5s 7.70nm 4.6mb
 BCAO 42.91 229 iPd 58 21.70 0.8
 0.5s 12.00nm 4.9mb
 CHG 46.90 99 eP 58 52.90 0.0
 LKO 56.42 256 P 00 02.98 -1.6
 1.0s 17.50nm 5.0mb
 KIC 57.76 252 P 00 13.18 -0.8
 0.8s 8.50nm 4.8mb
 TIC 57.79 252 P 00 13.08 -1.2
 LIC 58.06 252 P 00 15.18 -1.0
 0.8s 7.50nm 4.8mb
 MBC 66.87 357 eP 01 14.00 0.0
 0.5s 4.00nm 4.9mb
 INK 75.06 1 eP 02 03.00 -0.4
 IMA 75.80 9 eP 02 07.90 0.0
 0.7s 3.60nm 4.6mb
 FBA 77.62 7 eP 02 18.40 0.5
 PMR 80.68 9 eP 02 34.50 0.0
 0.8s 6.00nm 4.7mb
 S.D. = 1.0 on 52 of 71 obs.

OCT 22, 1990 05h 14m 52.28 ± 1.73s
 6.032 S ± 11.3km 128.204 E ± 13.4km
 DEPTH = 269.6 ± 19.2 km
 4.7mb (6 obs.)

BANDA SEA (280)

MTN 7.36 157 eP 16 38.00 -0.4
 KNA 9.67 177 iPc 17 14.80 7.3X
 0.4s 38.00nm 4.8mb
 WB5 15.01 157 eP 18 13.90 0.5
 0.5s 20.48.50
 MBL 17.09 208 eP 18 35.70 -0.7
 0.4s 9.00nm 4.6mb
 QIS 18.19 144 e(P) 18 48.40 0.5
 0.3s 21.54.20
 WARB 20.09 184 eP 19 08.00 1.0
 NANU 20.49 215 eP 19 11.10 0.3
 STK 20.60 156 eP 20 24.20 -1.8
 1.8s 18.00nm 4.4mb
 BWA 33.88 149 eP 21 12.30 0.5
 CAN 34.88 149 eP 21 20.00 -0.1
 GUN 52.98 312 P 23 44.60 0.4
 0.5s 20.00nm 4.8mb
 PKI 53.15 311 P 23 45.40 -0.1
 KKN 53.36 311 P 23 47.00 0.1
 0.4s 7.00nm 4.5mb
 DMN 53.39 311 P 23 46.80 -0.4
 GKN 53.95 311 P 23 51.20 0.1
 0.4s 17.00nm 4.9mb
 S.D. = 0.8 on 14 of 15 obs.

OCT 22, 1990 05h 50m 27.10 ± 4.92s

46.582 N ± 37.1km 15.693 E ± 18.7km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)
 ML 1.9 (ZAG).

PTJ 0.71 165 iPg 50 40.60 -0.5
 0.5s 50.44.80
 ZAG 0.79 165 iPg 50 43.00 0.5
 0.5s 50.48.70
 LJU 0.97 237 iPg 50 45.40 -0.1
 0.5s 50.55.50
 CEY 1.22 227 ePg 50 49.90 0.1
 0.5s 51.02.90
 VOY 1.36 247 iPnc 50 52.00 -0.2
 0.5s 51.10.30
 RIY 1.54 217 ePg 50 54.30 -0.3
 0.5s 51.09.20
 TRI 1.60 238 iPg 50 55.90 0.4
 0.5s 51.15.10
 ZST 1.88 30 eP 51 45.50 46.0X
 SPC 4.02 48 eP 51 56.60 26.4X
 S.D. = 0.5 on 7 of 9 obs.

OCT 22, 1990 06h 03m 25.75 ± 2.29s
 17.826 S ± 15.7km 178.779 W ± 17.4km
 DEPTH = 553.1 ± 26.1 km
 4.7mb (8 obs.)

FIJI ISLANDS REGION (181)

SGE 3.15 274 iPd 05 43.40 60.7X
 BKM 12.37 269 iPc 06 08.70 0.2
 DZM 14.52 251 iPc 06 30.10 -0.1
 LTZ 26.02 195 eP 08 15.50 -1.3
 BRS 27.88 245 iPc 08 33.50 0.3
 COO 29.51 239 iPd 08 48.10 0.7
 CNB 33.20 232 iPc 09 19.70 1.2
 0.2s 21.00nm 5.4mb
 CAN 33.47 232 eP 09 21.20 0.4
 BWA 33.58 234 eP 09 21.10 -0.6
 TOO 36.95 231 iPc 09 50.70 1.2
 0.5s 13.27.00
 STK 38.37 241 iPd 10 02.00 0.9
 0.5s 20.00nm 5.0mb
 ADE 41.39 237 eP 10 25.70 0.2
 WB5 44.28 260 iPd 10 41.70 -6.7X
 ASPA 44.48 254 iPd 10 48.90 -1.0
 0.6s 138.60nm 5.7mb
 WARB 50.98 250 iPd 11 38.00 -0.8
 0.3s 11.00nm 4.8mb
 MBL 57.66 256 iPd 12 24.40 -1.4
 0.4s 11.00nm 4.5mb
 NANU 61.41 254 iPc 12 50.00 -0.7
 0.4s 12.00nm 4.7mb
 PNT 84.87 34 eP 15 03.00 -0.1
 0.7s 5.00nm 4.3mb
 ALQ 86.32 52 eP 15 11.00 0.3
 1.0s 1.75nm 3.7mb
 INK 91.90 15 ePd 15 34.80 -0.7
 CLL 145.30 347 iPKPc 22 02.50 0.7
 0.8s 19.00nm
 BRG 145.50 346 iPKP 22 03.10 0.9
 PRU 146.17 345 ePKP 22 07.50 4.2X
 KHC 147.21 345 ePKP 22 08.50 3.5X
 CDF 149.10 352 ePKP 22 12.70 4.6X
 0.5s 5.10nm
 FLN 149.11 2 ePKP 22 12.20 4.3X
 0.7s 12.15nm
 LDF 149.29 2 ePKP 22 12.70 4.5X
 0.3s 3.00nm
 GRR 149.47 3 ePKP 22 13.40 4.9X
 0.3s 4.25nm
 HAU 149.61 353 ePKP 22 13.80 5.0X
 BSF 149.73 353 ePKP 22 14.10 5.0X
 LPF 149.82 3 ePKP 22 14.30 5.3X
 0.3s 3.40nm
 LOR 150.56 356 ePKP 22 15.90 5.7X
 0.4s 5.15nm
 SSF 150.78 357 ePKP 22 16.60 6.1X
 0.5s 5.45nm
 LBF 150.83 356 ePKP 22 16.50 5.8X
 0.5s 4.00nm
 AVF 151.06 357 ePKP 22 16.80 5.9X
 MFF 151.28 2 ePKP 22 17.60 6.3X
 0.4s 3.45nm
 BGF 151.32 358 ePKP 22 17.80 6.5X
 0.6s 4.50nm

22d 06h

TCF 151.61 359 ePKP 22 18.20 6.4X
LSF 151.66 360 ePKP 22 18.10 6.3X
MAF 151.66 358 ePKP 22 18.60 6.7X
1.0s 9.00nm
S.D. = 0.9 on 20 of 40 obs.

? OCT 22, 1990 06h 12m 00.18 ± 2.65s
17.212 N ± 14.4km 121.050 E ± 38.8km
DEPTH = 33.0km (normal)
4.5mb (2 obs.)

LUZON, PHILIPPINE ISLANDS (249)

BAG 0.92 210 eP 12 17.00 0.1
QCP 2.56 179 eP 12 48.00 7.7X
CHG 21.08 278 eP 16 44.20 0.0
BJI 23.14 350 eP 17 04.00 -0.4
1.0s 12.00nm 4.4mb
LZH 24.22 324 eP 17 16.20 1.1
1.8s 45.00nm 4.7mb
GUN 34.07 294 P 18 46.00 1.8
PKI 34.42 294 P 18 46.20 -1.0
GKN 35.17 294 P 18 51.00 -1.6
S.D. = 1.4 on 7 of 8 obs.

? OCT 22, 1990 07h 20m 48.07 ± 3.41s
47.861 N ± 9.5km 1.348 W ± 37.3km
DEPTH = 10.0km (geophysicist)

FRANCE (538)

ML 2.3 (LDG).

LPF 0.27 50 Pg 20 53.20 -0.5
Sg 20 57.70
GRR 0.62 32 Pg 21 00.20 -0.4
FLN 1.07 32 Pg 21 08.40 0.2
Sg 21 24.00
LDF 1.10 48 Pg 21 09.50 0.8
Sg 21 25.00
MFF 1.50 147 Pg 21 15.00 0.0
Sg 21 35.00
S.D. = 0.7 on 5 of 5 obs.

* OCT 22, 1990 07h 57m 53.20s
58.969 N 136.940 W
DEPTH = 10.0km (geophysicist)
3.7mb (1 obs.)

SOUTHEASTERN ALASKA (19)

<PGC-P>. ML 4.0 (PGC), 4.5
(PMR). Felt strongly at Haines.
Also felt at Juneau. Felt (IV)
at Pleasant Comp. British
Columbia and mildly at
Whitehorse, Yukon Territory.

PLBC 0.57 31 iPg 58 03.50 -1.3
YKU 1.55 293 iP 58 20.76 0.0
WHC 2.00 27 Pnc 58 27.00 -0.5
SIT 2.10 155 eP 58 28.26 -0.6
YAH 2.81 302 eP 58 38.00 -1.1
BALM 3.42 310 eP 58 46.98 -0.7
TGL 3.47 304 eP 58 46.91 -1.5
GLB 4.23 309 eP 58 58.29 -0.9
KLU 5.14 303 eP 59 10.57 -1.5
VLZ 5.18 299 eP 59 11.14 -1.4
DWY 5.24 348 Pc 59 11.90 -1.5
VZW 5.26 298 eP 59 12.52 -1.2
TMW 5.26 329 eP 59 12.35 -1.4
GLI 5.46 295 eP 59 14.04 -2.4
TOA 5.54 309 eP 59 18.00 0.3
MTU 5.56 285 eP 59 15.11 -2.8
KNIM 5.65 289 eP 59 15.86 -3.3
DOT 5.81 327 eP 59 18.99 -2.5
SCM 5.89 304 eP 59 21.52 -1.2
SEW 6.46 285 eP 59 27.00 -3.7
GHO 6.57 300 eP 59 30.90 -1.4
PMR 6.61 299 eP 59 31.80 -0.9
PMS 6.71 295 eP 59 31.56 -2.6
SLKM 6.89 289 eP 59 32.89 -3.8
PWA 6.97 298 eP 59 36.42 -1.3
SUA 7.31 296 eP 59 40.08 -2.6
CNPM 7.35 280 eP 59 39.41 -3.8
CUT 7.39 303 eP 59 40.38 -3.3
SKT 7.81 299 eP 59 46.38 -3.2
FBA 7.84 324 P 59 56.00 6.1
SPU 7.88 293 eP 59 45.78 -4.7
KDC 8.27 268 e(P) 59 58.20 2.3
INK 9.50 8 P 00 10.00 -2.9
TTA 10.07 301 e(P) 00 18.40 -2.5

IMA 10.48 320 e(P) 00 23.40 -3.1
MBC 18.43 13 eP 02 08.00 -1.9
0.5s 3.00nm 3.7mb
36 obs. associated

OCT 22, 1990 09h 10m 19.44 ± 0.81s
44.576 N ± 6.7km 20.966 E ± 9.8km
DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)

MG 2.9 (BEO). Felt in the
Smederevo area.

BEO 0.44 304 iPg 10 28.50 0.1
iSg 10 33.50
BZS 1.14 24 iPd 10 41.00 0.3
SKO 2.63 172 iPn 11 09.60 7.0X
iSn 11 37.40
PSZ 3.43 348 eP 11 13.40 -0.6
VAY 3.46 160 ePn 11 15.40 1.0
OHR 3.46 182 ePn 11 13.20 -1.4
HVAR 3.55 248 iPn 11 16.30 0.6
iSn 12 00.90
MLR 3.65 74 eP 11 26.00 8.8X
PTJ 3.78 292 e(Pn) 11 58.50 39.4X
eSn 12 21.80
S.D. = 1.1 on 6 of 9 obs.

% OCT 22, 1990 09h 45m 52.03 ± 3.07s
23.191 N ± 16.5km 122.062 E ± 22.7km
DEPTH = 10.0km (geophysicist)

TAIWAN REGION (243)

TWF1 0.72 283 iPd 46 06.20 0.0
eS 46 16.50
TWD 0.98 334 iPd 46 10.00 -0.7
TWG 0.98 248 iPc 46 10.30 -0.4
TWC 1.43 352 iPc 46 17.90 0.0
TWK 1.45 273 iPd 46 18.60 0.3
TWO 1.56 314 ePc 46 20.50 0.7
eS 46 41.20
TWZ 1.95 347 ePc 46 25.60 0.1
S.D. = 0.5 on 7 of 7 obs.

? OCT 22, 1990 10h 19m 32.37 ± 9.35s
27.057 S ± 53.2km 26.522 E ± 57.1km
DEPTH = 5.0km (geophysicist)

REPUBLIC OF SOUTH AFRICA (584)

ML 3.8 (PRE). mbLg 3.4 (BUL).

PRY 0.86 82 iPd 19 49.00 -0.5
S 19 55.00
KSR 1.23 16 iPc 19 56.00 0.1
S 20 09.00
BPI 1.61 57 iPc 20 01.50 -0.2
EVA 2.35 77 eP 20 12.50 0.1
S 20 40.00
BFT 3.44 67 iPd 20 28.50 0.5
S 21 01.50
JOZ 4.96 96 eP 20 45.00 -4.3X
S 20 59.00
BUL 7.14 16 iPn 21 19.80 -0.4
iSn 22 33.80
iSg 23 11.00
S.D. = 0.5 on 6 of 7 obs.

* OCT 22, 1990 10h 32m 41.09 ± 1.20s
20.954 S ± 13.6km 68.118 W ± 15.3km
DEPTH = 115.0 ± 15.8 km

CHILE-BOLIVIA BORDER REGION (124)

ANT 3.47 217 eP 33 34.10 -0.1
CCH 4.01 28 eP 33 55.00 13.0X
CNCB 4.12 2 P 33 50.00 6.3X
ZOBO 4.66 360 P 33 56.00 5.0X
ARE 5.49 324 eP 34 02.00 -0.2
iS 34 59.60
SIV 8.31 55 iPd 34 41.00 0.6
LIC 67.53 74 P 43 26.40 -0.9
TIC 67.71 73 P 43 28.20 -0.3
KIC 67.84 74 P 43 28.60 -0.7
GBA 146.36 97 PKP 52 11.00 1.7
0.5s 0.90nm
S.D. = 1.3 on 7 of 10 obs.

* OCT 22, 1990 11h 15m 35.51s
63.196 N 151.656 W
DEPTH = 9.9km

CENTRAL ALASKA
<AGS-P>.

MUR 0.94 103 eP 15 53.49 0.0
eS 16 07.08
CUT 1.02 141 eP 15 55.14 0.4
eS 16 09.84
SKT 1.22 177 eP 15 57.66 -0.6
RND 1.28 79 iP 15 58.74 -0.6
eS 16 16.70
MCK 1.34 65 eP 15 59.97 -0.2
PWA 1.76 151 eP 16 06.85 0.7
SUA 1.79 166 eP 16 07.51 0.7
NEA 1.80 38 eP 16 06.51 -0.2
NCG 1.81 188 eP 16 06.68 -0.5
eS 16 30.40
CGLM 1.90 185 eP 16 09.57 1.2
iS 16 34.01
GHO 1.91 137 eP 16 08.43 -0.1
eS 16 35.13
BGL 1.97 190 eP 16 10.22 0.8
eS 16 35.66
PLRM 1.99 143 eP 16 09.16 -0.4
PMR 1.99 143 P 16 08.60 -1.0
TTA 2.00 264 eP 16 08.99 -0.8
iS 16 34.22
SPU 2.03 185 eP 16 09.90 -0.3
eS 16 36.70
CKL 2.03 189 eP 16 10.38 0.1
WRH 2.03 49 eP 16 10.69 0.5
SML 2.08 131 iP 16 10.50 -0.4
PMS 2.19 152 eP 16 13.77 1.2
CCB 2.24 48 eP 16 11.27 -1.9
FBA 2.41 43 P 16 16.00 0.4
HDA 2.41 58 eP 16 17.74 2.1
IMA 3.01 344 P 16 20.20 -4.1
KLU 3.17 120 iP 16 26.93 0.4
25 obs. associated

% OCT 22, 1990 11h 42m 11.77 ± 0.82s
38.590 N ± 4.8km 14.516 E ± 8.9km
DEPTH = 19.4 ± 6.7 km

SICILY (398)

MNO 0.68 168 P 42 24.50 -0.5
eSg 42 36.70
ATN 0.86 120 P 42 27.60 -0.3
eSg 42 42.30
MSI 0.91 115 P 42 29.80 1.1
eSg 42 41.50
CZI 1.41 63 P 42 36.20 -0.1
eSg 42 56.00
FAM 1.48 207 P 42 38.10 0.7
MEU 1.53 168 P 42 37.60 -0.7
eSn 42 58.00
MGR 1.74 27 P 42 40.20 -0.9
eSn 43 02.80
TDS 1.77 53 P 42 41.30 -0.3
CSI 1.81 49 P 42 42.70 0.4
ROI 1.87 58 P 42 42.80 -0.4
SGO 2.05 17 P 42 46.20 0.5
ORI 2.09 45 P 42 46.90 0.5
S.D. = 0.7 on 12 of 12 obs.

* OCT 22, 1990 11h 46m 00.47s
58.184 N 142.942 W
DEPTH = 10.0km (geophysicist)

GULF OF ALASKA
<AGS-P>.

YKU 2.16 49 eP 46 31.73 -5.2
eS 46 56.04
YAH 2.27 15 eP 46 33.57 -5.3
TGL 2.58 1 iP 46 37.81 -5.3
eS 47 05.84
BALM 2.88 6 iP 46 42.04 -5.3
eS 47 13.56
KNIM 3.28 313 iP 46 47.17 -5.8
eS 47 24.45
GLB 3.30 353 iP 46 47.66 -5.6
VLZ 3.42 331 eP 46 48.93 -5.9
GLI 3.43 324 eP 46 48.82 -6.2
KLU 3.64 337 iP 46 52.56 -5.6
SEW 3.87 303 eP 46 55.34 -5.8
TOA 4.25 339 eP 47 01.85 -4.9
PMS 4.54 315 eP 47 05.50 -5.4
GHO 4.69 323 eP 47 07.92 -5.1

CUT 5.58 322 eP 47 21.00 -4.5
SKT 5.74 315 eP 47 22.29 -5.5
15 obs. associated

* OCT 22, 1990 12h 09m 23.41s
66.293 N 144.421 W
DEPTH = 0.0km
ALASKA (676)
<AGS-P>.

FYU 0.43 310 eP 09 31.39 -0.5
GLM 1.80 225 eP 09 55.32 -0.6
FBA 1.98 227 eP 10 20.68
HDA 2.17 210 eP 10 00.46 -0.9
CCB 2.17 222 eP 10 02.15 0.8
WRH 2.39 222 eP 10 06.89 2.4
NEA 2.60 231 eP 10 07.94 0.5
7 obs. associated

* OCT 22, 1990 12h 21m 35.18 ± 0.53s
13.740 N ± 8.8km 121.029 E ± 12.1km
DEPTH = 33.0km (normal)
5.1mb (14 obs.)
MINDORO, PHILIPPINE ISLANDS (250)

SSE 17.27 0 eP 25 41.00 5.5X
1.0s 10.00nm 3.9mb X
MKS 18.90 185 iPc 26 01.00 5.3X
KGM 21.03 238 eP 26 20.00 1.3
IPM 21.73 247 ePd 26 28.10 2.4
BJI 26.54 352 eP 27 14.00 2.2
LZH 27.08 328 iPd 27 19.00 2.1
1.4s 87.00nm 5.2mb
MBL 34.70 182 iPc 28 23.70 -0.5
0.5s 38.00nm 5.6mb
GUN 35.60 299 P 28 32.40 0.0
0.4s 17.00nm 5.3mb
W85 35.89 158 eP 28 34.10 -0.3
eS 33 51.10
PKI 35.91 298 P 28 34.40 -0.6
0.4s 10.00nm 5.1mb
KKN 36.08 298 P 28 35.80 -0.4
0.5s 9.00nm 4.9mb
DMN 36.18 298 P 28 35.60 -1.5
NANU 36.48 189 eP 28 39.20 0.0
0.5s 19.00nm 5.2mb
GKN 36.69 299 P 28 40.60 -0.7
0.4s 6.00nm 4.8mb
OIS 38.67 151 iPc 28 58.50 0.8
ASPA 39.25 161 iPc 29 02.50 -0.1
0.5s 17.20nm 5.1mb
eS 34 43.90

WARB 40.06 172 iPc 29 09.70 0.5
CTA 41.78 143 iPc 29 25.30 1.9
0.9s 40.34nm 5.2mb
GBA 42.31 275 Pc 29 27.40 -0.5
0.6s 5.30nm 4.4mb
KLB 45.18 184 eP 29 49.60 -1.2
0.4s 10.00nm 5.1mb
NWA0 46.54 184 iPd 30 00.90 -0.6
STK 49.46 157 eP 30 23.00 -1.3
1.8s 31.00nm 5.0mb
INK 82.94 21 eP 33 58.00 0.2
MBC 83.44 12 eP 34 00.50 0.2
HFS 86.59 331 eP 34 14.70 -1.6
0.4s 1.30nm 4.5mb
NB2 87.37 333 P 34 17.60 -2.5
0.8s 1.90nm 4.4mb
S.D. = 1.3 on 24 of 26 obs.

OCT 22, 1990 12h 41m 41.69 ± 0.41s
43.884 N ± 3.4km 20.388 E ± 4.5km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 3.0 (TTG).

PLE 0.91 233 iPd 41 57.70 -1.5
eSg 42 10.20
BEO 0.94 3 ePg 42 00.50 0.9
eSn 42 16.00
IVA 1.07 200 ePg 42 00.10 -1.8
eSg 42 13.60
PVY 1.32 193 iPd 42 04.90 -1.3

NKY 1.47 224 eSg 42 21.20
ePg 42 07.70 -0.7
eSg 42 28.00
BCI 1.53 189 iPg 42 09.40 0.3
BRY 1.67 234 ePn 42 10.50 -0.7
eSn 42 32.50
TTG 1.67 210 ePg 42 10.30 -0.8
eSg 42 32.00
KKS 1.81 179 ePn 42 14.00 0.9
PUK 1.88 191 ePn 42 15.00 0.9
BZS 1.94 26 iPd 42 23.50 8.5X
BDV 1.97 216 ePn 42 16.40 1.0
eSn 42 41.00
SDA 1.98 200 ePn 42 21.70 6.2X
HCY 1.99 225 ePn 42 16.20 0.4
eSn 42 41.30
SKO 2.06 158 iPn 42 17.90 1.1
iSn 42 47.10
ULC 2.09 204 ePn 42 18.50 1.2
eSn 42 45.00
PHP 2.20 179 ePn 42 22.40 3.7X
BLV 2.46 292 eP 42 26.40 4.0X
eS 42 51.40
TIR 2.56 189 ePn 42 29.00 5.0X
OHR 2.79 174 iPn 42 26.60 -0.6
iSn 43 05.60
DRA 2.89 73 eP 42 37.00 8.4X
HVAR 2.95 258 iPn 42 30.80 1.4
iSn 43 05.80
VAY 3.03 147 ePn 42 32.00 1.5
i 42 38.00
TPE 3.60 185 ePn 42 39.00 0.4
CMP 3.60 66 ePc 42 58.00 19.3X
LSK 3.73 178 ePn 42 40.70 0.0
PTJ 3.74 304 ePn 42 39.70 -1.1
iSn 43 23.90
MLR 4.28 66 ePc 42 47.00 -1.4
e 48 37.00
LJU 4.68 299 e(Pn) 42 55.00 0.9
ZST 4.88 333 eP 42 56.40 -0.4
DUI 4.90 245 P 42 57.00 -0.2
VRI 4.92 64 ePd 42 56.50 -0.9
ed 48 46.50
TRI 5.05 293 eP 43 00.00 0.7
i 43 56.40
VOY 5.08 297 e(Pn)c 42 59.60 -0.2
eSn 43 55.80
SDI 5.30 248 P 43 02.00 -0.9
ARV 5.41 268 P 42 55.00 -9.4X
FVI 6.02 299 Pd 43 12.80 0.0
eSn 44 40.00
CTI 6.57 292 P 43 22.00 1.2
KHC 7.04 321 ePg 43 27.00 -0.3
eSg 44 59.00
S.D. = 1.0 on 31 of 39 obs.

? OCT 22, 1990 13h 34m 48.34 ± 1.01s
18.484 N ± 15.7km 142.924 E ± 43.8km
DEPTH = 33.0km (normal)
MARIANA ISLANDS REGION (215)

GUM0 5.21 159 eP 36 06.30 0.2
0.6s 31.43nm 5.0mb X
PJG 5.21 159 eP 36 06.10 0.0
GUA 5.28 158 eP 36 06.80 -0.2
eS 37 00.20
W85 39.04 193 eP 42 19.90 6.0X
WARB 47.13 200 eP 43 28.00 8.5X
INK 70.60 23 eP 46 02.00 0.0
MLR 94.52 321 ePd 48 07.00 0.0
S.D. = 0.2 on 5 of 7 obs.

% OCT 22, 1990 14h 02m 01.92 ± 0.80s
16.260 N ± 6.2km 61.394 W ± 6.2km
DEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)
ML 2.6 (FDF). Felt (II) at
Gasier and St. Anne, Guadeloupe.

SEG 0.18 323 iPd 02 05.89 0.0
S 02 07.60
SFG 0.19 92 eP 02 06.13 0.0
S 02 08.90
DOG 0.31 224 ePc 02 08.70 0.3
S 02 13.60
MGG 0.35 168 iPc 02 09.44 0.4
S 02 14.90

PAG 0.36 230 eP 02 09.26 0.0
S 02 14.70
BBL 0.74 186 eP 02 15.80 -0.6
S 02 24.70
S.D. = 0.4 on 6 of 6 obs.

OCT 22, 1990 14h 35m 22.22 ± 0.16s
16.244 S ± 5.5km 173.153 W ± 4.2km
DEPTH = 30.6km (7 depth phases)
5.4mb (37 obs.) 5.2Msz (11 obs.)
TONGA ISLANDS (173)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 175, 38C
Centroid Location:
Origin Time 14:35:27.2 0.3
Lat 15.97S 0.06 Lon 173.40W 0.06
Dep 15.0 FIX Half-duration 2.0
Moment Tensor; Scale 10¹⁷ Nm
Mrr = 0.60 0.05 Mtt = -0.11 0.05
Mff = -0.49 0.07 Mrt = 0.32 0.12
Mrf = 2.38 0.13 Mlf = 0.91 0.04
Principal Axes:
T Val = 2.73 Plg = 47 Azm = 294
N -0.23 21 180
P -2.50 35 74
Best Double Couple: Mo = 2.6 × 10¹⁷
NP1: Strike = 108 Dip = 22 Slip = 17
NP2: 2 84 111

MBU 7.82 264 eP 37 23.50 6.6X
VUN 8.21 256 eP 37 29.90 7.7X
SVA 8.23 256 eP 37 30.00 7.4X
SGE 8.65 260 eP 37 35.00 6.6X
PVC 17.79 263 iPc 39 35.50 6.2X
8KM 17.85 263 iPd 39 34.50 4.4X
DZM 20.12 250 iPd 39 55.60 -1.1
PAE 22.59 97 iP 40 20.90 -0.7
0.8s 40.00nm 4.9mb
PPT 22.60 97 iP 40 21.10 -0.5
0.8s 50.00nm 5.0mb
PPN 22.73 97 iP 40 22.40 -0.6
0.8s 20.00nm 4.7mb
PUZ 23.03 198 eP 40 27.80 2.1
NOZ 23.59 197 P 40 34.10 2.9X
WLZ 23.70 203 eP 40 35.30 3.1X
PMO 24.35 91 iP 40 37.80 -0.9
0.8s 60.00nm 5.2mb
VAH 24.58 91 iP 40 39.60 -1.3
0.8s 35.00nm 5.0mb
TPT 24.62 91 iP 40 40.10 -1.2
0.8s 50.00nm 5.1mb
RUV 24.82 91 iP 40 41.80 -1.5
0.8s 40.00nm 5.1mb
PGZ 25.96 199 eP 40 55.30 1.5
0.4s 15.00nm 5.0mb
MNG 26.21 200 eP 40 57.40 1.3
0.3s 9.00nm 4.9mb
HNR 27.07 201 eP 41 04.00 -0.2
SVO 27.28 202 eP 41 06.00 -0.1
THZ 28.12 202 eP 41 14.10 0.5
KHZ 28.47 201 eP 41 17.10 0.5
0.4s 30.00nm 5.4mb
LTZ 29.24 202 P 41 23.20 -0.4
BRS 33.42 245 iPd 42 01.00 0.5
i 42 09.50 29km
COO 34.95 240 iPd 42 13.80 0.1
i 42 23.20 32km
RMO 36.79 247 eP 42 27.00 -2.3
CNB 38.43 233 iPc 42 43.10 0.0
1.0s 110.00nm 5.6mb
CTA 38.69 258 iPc 42 45.30 0.0
0.9s 16.81nm 4.8mb
2 19s 3.47um 5.2Msz
iS 49 00.00
CAN 38.71 233 eP 42 45.00 -0.4
BWA 38.88 235 eP 42 45.30 -1.5
PMG 39.24 275 eP 42 51.00 1.0
1.2s 125.00nm 5.5mb
CMS 40.21 240 iPc 42 57.40 -0.4
i 43 06.90 32km
QLP 40.82 248 iPc 42 02.20 -0.6
TOO 42.12 232 eP 43 13.00 -0.5
i 43 22.70 33km
STK 43.83 241 iPc 43 27.50 0.1
0.9s 30.00nm 5.1mb
2 18s 84.00um 6.7MszX

BFD	44.25	233	eP	43 36.70	31km	LRM	82.53	38	eP	47 44.20	0.5			1.0s	46.00nm			
			e	43 32.00	1.3	BW06	82.74	42	iP	47 44.70	-0.2		BBTK	147.42	321	iPKPc	55 07.00	4.5
			e	43 41.00	30km		1.0s	27.50nm			5.3mb					i	55 12.00	
OIS	44.91	257	ePc	43 35.40	-0.9					48 25.30	163kmX		SOP	147.64	348	iPKPc	55 05.80	3.4X
ADE	46.76	237	eP	43 50.50	-0.3	FBA	83.18	11	iPc	47 45.80	-0.5		LPF	147.64	10	iPKPc	55 05.30	2.9X
WB5	49.87	258	eP	44 13.90	-1.2	IMA	83.36	8	eP	47 47.30	-0.1			1.0s	60.00nm			
ASPA	50.08	253	iPc	44 15.60	-1.1		1.3s	30.50nm			5.3mb		CDF	147.92	359	iPKPc	55 06.40	3.4X
	1.0s	138.60nm			5.9mb	GOL	84.07	46	P	47 51.80	0.1			1.0s	62.00nm			
Z	19s	3.00um			5.3Msz	GLD	84.19	46	P	47 53.30	1.0		FUR	147.96	354	ePKP	55 06.50	3.5X
		iPcS	49 31.80				1.0s	30.00nm			5.4mb			1.0s	76.00nm			
		iS	51 24.20			SES	85.76	35	eP	48 00.00	0.3		BZS	148.20	340	ePKP	55 02.00	-1.4
GUA	50.93	303	eP	44 22.80	-0.3	BJI	86.22	313	eP	48 03.50	1.4		BHG	148.22	352	iPKPc	55 07.30	3.9X
GUMO	50.99	303	eP	44 23.50	-0.1		1.2s	89.00nm			5.9mb			1.3s	104.00nm			
MTN	53.91	266	iPc	44 44.20	-1.2	Z	24s	0.64um			4.9MszX		HAU	148.32	1	iPKPc	55 07.70	4.1X
FORR	55.22	244	iPc	44 53.00	-1.9			eSP	48 14.00					1.0s	56.00nm			
	0.5s	73.00nm			6.0mb			eSKS	58 27.00			Z	22s	0.28um			5.0Msz	
WARB	56.57	249	iPc	45 03.80	-0.9			eS	58 40.00			FEL	148.44	359	ePKP	55 07.56	3.7X	
	0.5s	27.00nm			5.5mb	MEO	86.99	53	iPc	48 16.30	10.3X		BSF	148.50	0	iPKPc	55 08.00	4.0X
COOL	61.20	243	eP	45 35.20	-1.6	MAW	87.07	199	iP	48 08.10	2.2			1.0s	30.00nm			
SBA	62.43	185	eP	45 47.30	3.0X	IPM	87.26	276	ePc	48 10.40	2.6X		SLE	148.54	358	ePKPd	55 08.20	4.3X
MBL	63.26	254	iPc	45 50.10	-0.5		1.1s	42.60nm			5.6mb		GPA	148.55	324	ePKP	55 08.40	4.2X
	0.4s	40.00nm			5.9mb	SNG	88.39	278	eP	48 17.10	4.0X		SQTA	148.90	354	iPKPc	55 06.00	1.4
KLB	64.05	242	eP	45 55.00	-0.7	INK	89.03	14	eP	48 14.50	-0.5			1.2s	67.10nm			
	0.5s	22.00nm			5.5mb	TUL	89.52	52	e(P)	48 18.00	-0.1						55 09.50	
NWAO	64.42	241	eP	45 56.50	-1.6		1.0s	4.00nm			4.7mb		HRI	148.91	308	iPKPc	55 10.40	5.3X
Z	20s	0.50um			4.7Msz	LOE	90.26	288	eP	48 23.50	1.7		LOR	148.97	4	iPKPc	55 09.20	4.6X
N	20s	0.70um				KMI	91.60	296	Pc	48 30.00	1.8			1.0s	42.00nm			
E	20s	0.40um					1.5s	80.00nm			5.9mb		Z	21s	0.52um			5.3Msz
BAL	65.03	243	eP	46 01.00	-1.1	BDT	92.72	287	eP	48 30.80	-2.3		SAX	149.01	357	ePKPd	55 10.20	5.2X
MUN	65.35	242	eP	46 03.60	-0.5		1.0s	83.50nm			6.1mb		SSF	149.15	4	iPKPc	55 09.80	5.0X
	1.0s	80.00nm			5.8mb	CHG	93.20	289	ePc	48 37.50	2.2			1.2s	80.35nm			
MRWA	65.77	245	iPc	46 05.70	-1.1		1.0s	45.50nm			5.9mb		MFF	149.18	9	iPKPc	55 09.50	4.6X
NANU	67.02	252	eP	46 15.10	0.2	LZH	93.91	306	iPc	48 40.00	1.5			1.0s	24.00nm			
	0.3s	29.00nm			5.9mb		1.5s	42.00nm			5.6mb		LBF	149.26	4	iPKPc	55 09.90	4.8X
SYF	71.43	44	eP	46 48.00	6.1X	Z	30s	0.57um			4.9MszX			1.0s	35.00nm			
PRS	71.59	42	eP	46 42.00	-0.7			pP	48 49.00		28km		OGA	149.27	354	iPKPc	55 10.20	4.9X
GCC	71.61	41	eP	46 41.10	-1.7			sP	48 56.00					1.2s	80.00nm			
PCC	71.66	40	eP	46 41.30	-1.8	PKI	107.28	294	PKP	54 00.00	11.7X		BEO	149.29	341	iPKP	55 10.70	5.6X
SAO	71.80	42	eP	46 44.20	0.2	QUE	123.62	296	ePKP	54 20.30	1.1		FVI	149.34	352	PKP	55 09.60	4.5X
PRI	71.93	42	eP	46 45.30	0.4	MAIO	129.39	304	ePKP	54 31.00	1.0		AVF	149.40	5	iPKPc	55 10.00	4.8X
BRK	71.97	40	eP	46 45.10	0.2	NB2	135.15	357	PKP	54 40.80	0.8			1.0s	30.00nm			
MHC	72.03	41	eP	46 45.70	0.2		1.1s	7.70nm					LLS	149.41	357	ePKPd	55 11.10	5.6X
ARN	72.10	41	P	46 46.30	0.5	HFS	135.89	355	ePKP	54 40.90	-0.5		PTJ	149.47	347	ePKP	55 09.00	3.5X
PAS	72.43	45	eP	46 48.00	0.2		0.9s	7.40nm					OSS	149.52	356	ePKPd	55 11.50	5.8X
MWC	72.55	45	eP	46 48.00	-0.7	BUL	137.99	211	iPKPd	54 46.90	0.1		ZAG	149.54	347	ePKP	55 05.50	0.1
BAR	72.66	47	eP	46 49.00	-0.2		0.9s	4.62nm					SMF	149.58	4	iPKPc	55 10.60	5.1X
RVR	72.89	46	eP	46 50.00	-0.5	MJMA	142.99	291	PKP	54 53.00	-2.4		BGF	149.59	5	iPKPc	55 10.70	5.2X
PLM	72.90	47	eP	46 51.00	0.2	KSP	144.66	350	iPKPd	54 56.50	-0.9			1.1s	48.85nm			
BAG	72.96	293	eP	46 51.00	-0.4		1.3s	35.00nm					LJU	149.60	349	ePKP	55 11.00	5.4X
SBB	72.97	45	eP	46 50.00	-1.0	CLL	144.67	353	iPKP	54 55.00	-2.4		VOY	149.72	350	ePKP	55 11.00	5.1X
FRI	73.05	42	eP	46 51.20	-0.1		1.3s	19.00nm					LSF	149.76	7	iPKPc	55 10.80	5.0X
ISA	73.09	44	eP	46 51.00	-0.7	BRG	144.99	352	iPKP	54 57.40	-0.6			1.1s	42.75nm			
CMB	73.24	41	eP	46 52.50	0.0		1.4s	24.00nm					VDI	149.77	356	ePKPd	55 12.10	6.0X
KKM	73.28	282	eP	46 53.00	-0.2	AFIF	145.09	289	PKP	55 00.80	1.7		TCF	149.80	6	iPKPc	55 11.10	5.2X
ORV	73.48	39	eP	46 53.70	-0.1	BNS	145.36	360	iPKPd	54 58.80	0.2			1.2s	37.20nm			
WDC	73.49	38	eP	46 54.00	0.2	SPC	145.37	344	ePKP	55 00.20	1.3		MAF	149.90	6	iPKPc	55 11.60	5.6X
CLC	73.76	44	eP	46 55.00	-0.6	MOX	145.47	355	iPKP	54 59.00	0.2			1.2s	74.40nm			
SPA	73.86	180	eP	46 57.80	2.0		1.4s	91.00nm					DSI	149.90	306	iPKPc	55 12.50	6.1X
	0.8s	38.33nm			5.5mb	ENN	145.55	1	ePKP	54 59.00	0.1		CEY	149.92	349	ePKP	55 11.50	5.4X
TPC	73.87	46	eP	46 56.00	-0.3		1.0s	50.00nm					VVI	149.99	352	PKP	55 11.00	4.8X
MIN	73.90	39	eP	46 55.70	-0.7	NAI	145.68	242	iPKPd	55 04.00	3.4X		VBY	149.99	348	ePKP	55 11.90	5.8X
GSC	74.01	45	eP	46 57.00	-0.1	MEM	145.71	1	PKP	55 02.30	3.1X		CTI	150.02	353	PKPc	55 15.00	8.7X
LBFM	74.36	38	P	47 00.20	1.1	SNF	145.76	3	PKP	55 01.00	1.7		TRI	150.06	350	iPKPd	55 11.90	5.7X
TNP	75.29	43	P	47 04.00	-0.6	PRU	145.77	351	ePKP	54 59.00	-0.3		TMA	150.18	357	ePKPd	55 12.60	5.9X
	1.0s	35.00nm			5.3mb	Z	20s	0.60um			5.4Msz		DIX	150.25	359	ePKPd	55 13.90	7.0X
KDC	75.68	11	P	47 07.00	1.0	HOF	145.77	354	ePKP	55 00.20	0.8		EMS	150.26	360	ePKPd	55 13.60	6.8X
	1.0s	55.00nm			5.5mb	BMR	145.78	340	ePKPd	55 02.00	2.6X		MMK	150.27	358	ePKPd	55 13.90	7.0X
BMW	76.91	33	P	47 14.20	0.9	KAS	145.86	323	ePKP	55 02.50	2.6X		KHL	150.32	322	ePKP	55 12.40	5.4X
LON	77.83	33	P	47 18.70	0.3	CFR	146.04	333	ePKP	55 03.00	3.1X		MDI	150.46	356	PKP	55 12.50	5.7X
GMW	77.84	32	P	47 19.10	0.8	VRI	146.10	335	ePKPd	55 01.50	1.5		RJF	150.68	8	ePKP	55 13.20	6.0X
SVW	78.36	9	eP	47 20.70	-0.2	DOU	146.19	3	PKPc	55 02.30	2.3X			1.2s	59.50nm			
SSE	78.65	307	P	47 23.00	-0.1	GRF	146.45	355	ePKPc	55 02.50	2.0		Z	21s	0.40um			5.2Msz
Z	20s	0.50um			4.8Msz		1.0s	0.30um			5.1Msz		LPL	150.82	0	iPKPc	55 14.90	7.2X
		S	58 08.00			PSZ	146.63	344	ePKP	55 01.80	0.9			1.0s	35.00nm			
PMR	79.90	11	eP	47 28.20	-1.0	KHC	146.74	352	PKP	55 03.50	2.5X		LPG	150.84	0	iPKPc	55 15.10	7.3X
	1.2s	51.60nm			5.4mb		1.4s	58.50nm						1.1s	53.70nm			
TTA	80.05	8	eP	47 30.30	0.2			e	55 10.20			LFF	150.93	9	iPKPc	55 13.70	6.1X	
DAU	80.45	43	P	47 32.00	-1.1	WET	146.82	353	ePKP	55 03.50	2.4			1.0s	46.00nm			
PNT	80.60	32	iPd	47 34.00	0.8	FLN	147.02	9	ePKP	55 03.20	1.8		MBH	150.99	303	ePKP	55 15.00	6.9X
	0.9s	37.00nm			5.4mb		0.7s	17.65nm				EZN	151.02	328	ePKP	55 14.00	6.2X	
PV09	80.92	46	iP	47 35.50	-0.1	Z	20s	0.43um			5.2Msz		ELL	151.10	319	ePKP	55 14.70	6.4X
TOA	80.95	12	eP	47 34.90	0.0	ZST	147.04	347	ePKP	55 04.10	2.7X		CAF	151.12	7	ePKP	55 14.40	6.5X

i 55 21.70
BOB 151.48 356 PKP 55 16.00 7.5X
VAY 151.56 335 iPKP 55 15.00 6.4X
1.2s 71.00nm
LWI 151.58 232 iPKP- 55 17.00 8.0X
SFI 152.09 352 PKP 55 17.00 7.7X
BDI 152.09 354 PKP 55 17.00 7.6X
PGD 152.15 352 PKP 55 17.50 7.8X
ARV 152.34 350 PKP 55 17.50 7.7X
CRE 152.36 352 PKP 55 17.00 7.1X
OHR 152.44 337 ePKPd 55 18.10 8.1X
1.3s 543.00nm
ASS 152.80 351 PKP 55 17.50 7.0X
MNS 153.47 350 PKP 55 17.70 6.3X
DUI 153.83 347 PKP 55 17.50 5.5X
SDI 153.93 348 PKP 55 13.00 0.9
SGO 154.68 345 PKP 55 13.00 0.1
BCAO 163.58 226 iPKPd 55 25.20 1.3
0.7s 21.00nm

56 17.20
56 30.20
LKO 166.17 117 PKP 55 25.02 -0.3
1.1s 14.00nm
S.D. = 1.1 an 135 of 227 obs.

? OCT 22, 1990 17h 26m 26.46±6.70s
5.333 S ±54.8km 148.611 E ±15.8km
DEPTH = 109.7 ±39.6 km
4.3mb (1 abs.)

NEW BRITAIN REGION (192)

PMG 4.30 200 eP 27 31.00 0.1
0.8s 179.10nm
eS 28 22.00
QIS 17.48 209 iPc 30 24.60 -0.3
MTN 18.80 245 iPc 30 40.20 0.0
WBS 20.03 223 eP 30 52.50 -0.6
ASPA 23.09 216 iPc 31 24.20 0.8
0.7s 10.30nm 4.3mb
iS 35 18.50
DZM 23.97 136 iPd 31 32.00 -0.1
S.D. = 0.7 an 6 of 6 abs.

& OCT 22, 1990 18h 40m 36.79s
59.809 N 151.856 W
DEPTH = 61.5km
KENAI PENINSULA, ALASKA (14)
<AGS-P>.

HOM 0.19 144 iP 40 46.12 -0.3
iS 40 53.66
NNL 0.37 50 iP 40 48.18 0.5
CNPM 0.42 132 iP 40 47.76 -0.5
eS 40 56.23
BRLK 0.49 95 iP 40 48.48 -0.5
eS 40 58.00
OPT 0.71 258 iP 40 50.63 -0.8
eS 41 02.07
RED 0.76 324 iP 40 51.50 -0.6
eS 41 03.08
RSO 0.79 326 iP 40 52.05 -0.5
eS 41 04.19
RDT 0.82 341 iP 40 51.99 -0.7
eS 41 04.22
AUE 0.89 240 iP 40 53.02 -0.6
AUM 0.92 242 iP 40 53.53 -0.6
iS 41 06.45
AUI 0.93 240 eP 40 53.20 -0.9
NKA 0.99 18 eP 40 56.15 1.3
SLKM 1.08 49 eP 40 55.44 -0.7
eS 41 10.87
PDB 1.18 270 iP 40 56.37 -1.1
iS 41 11.82
SEW 1.25 75 iP 40 58.78 0.5
CDD 1.27 227 eP 40 57.73 -1.0
eS 41 14.63
SPU 1.38 356 iP 40 59.75 -0.5
MCNL 1.41 245 eP 40 59.58 -1.0
eS 41 17.15
CKL 1.41 350 iP 41 00.37 -0.4
eS 41 18.98
CRP 1.47 354 iP 41 01.65 0.1
BGL 1.48 350 eP 41 01.59 -0.1
iS 41 21.81
CGLM 1.51 357 iP 41 01.79 -0.2
NCG 1.61 355 iP 41 03.38 0.0
eS 41 24.40

SUA 1.75 18 eP 41 05.06 -0.3
PMS 1.83 37 eP 41 06.44 -0.1
iS 41 28.95
PWA 2.09 27 eP 41 09.94 0.0
KDC 2.09 189 eP 41 08.10 -1.9
MTU 2.13 83 eP 41 09.70 -0.8
KNIM 2.13 74 eP 41 07.77 -2.9
SKT 2.18 4 iP 41 11.42 0.0
PLRM 2.24 36 eP 41 11.01 -1.0
PMR 2.24 36 iPc 41 11.10 -0.9
SVW 2.28 307 iPc 41 10.90 -1.8
GHO 2.44 35 eP 41 14.14 -0.9
GLI 2.60 64 iP 41 14.53 -2.7
SML 2.65 39 eP 41 16.68 -1.2
CUT 2.72 16 eP 41 18.31 -0.5
VZW 2.91 62 iP 41 19.26 -2.4
SCM 3.01 46 eP 41 22.25 -0.8
VLZ 3.04 62 eP 41 20.84 -2.6
KLU 3.38 57 iP 41 26.35 -1.9
TOA 3.60 48 iPc 41 30.50 -0.9
TTA 3.72 329 eP 41 32.40 -0.6
FBA 5.45 19 iPc 41 55.40 -1.9
44 abs. associated

& OCT 22, 1990 18h 44m 36.60s
63.388 N 147.464 W
DEPTH = 70.3km
CENTRAL ALASKA (1)
<AGS-P>.

RND 0.63 272 eP 44 50.95 0.0
eS 45 01.42
MCK 0.74 298 eP 44 52.48 0.2
eS 45 03.67
DDM 0.82 60 eP 44 53.65 0.4
eS 45 06.30
HDA 1.05 12 iP 44 56.14 0.2
eS 45 10.34
WRH 1.12 346 iP 44 56.84 -0.1
SDG 1.23 134 eP 44 57.64 -0.8
eS 45 14.08
CCB 1.27 353 iP 44 58.69 -0.2
eS 45 14.96
NEA 1.39 330 eP 44 59.95 -0.5
eS 45 17.26
TOA 1.42 155 iPc 45 00.70 -0.3
FBA 1.53 355 iPc 45 02.30 0.0
DOT 1.55 79 eP 45 01.63 -1.0
eS 45 20.73
SCM 1.56 178 eP 45 01.82 -1.1
eS 45 22.74
GLM 1.61 1 eP 45 02.53 -0.9
CUT 1.62 234 eP 45 02.97 -0.6
SML 1.64 195 eP 45 03.02 -0.9
GHO 1.76 203 eP 45 04.69 -0.9
eS 45 28.55
PLRM 1.96 204 eP 45 08.09 -0.2
PMR 1.96 204 iPd 45 08.20 -0.1
VLZ 2.03 166 eP 45 11.42 -1.9
TMW 2.01 90 eP 45 07.76 -1.3
KLU 2.03 159 eP 45 08.12 -1.3
PWA 2.07 214 eP 45 09.64 -0.2
VLZ 2.23 166 eP 45 11.42 -1.9
SKT 2.35 235 eP 45 12.94 -0.7
PMS 2.36 205 eP 45 14.29 0.4
VZW 2.38 169 eP 45 12.33 -1.8
SUA 2.46 220 eP 45 16.11 0.8
GLI 2.52 176 eP 45 14.36 -1.7
GLB 2.59 137 eP 45 15.84 -1.2
NCG 2.96 230 eP 45 23.00 0.8
CGLM 2.97 227 eP 45 23.48 1.0
KNIM 3.05 183 eP 45 21.99 -1.5
SPU 3.08 226 eP 45 24.41 0.5
BGL 3.14 229 eP 45 24.89 0.1
CKL 3.17 228 eP 45 27.41 2.2
SLKM 3.17 205 eP 45 25.26 0.1
FYU 3.33 16 eP 45 27.13 -0.2
IMA 3.79 318 iPc 45 33.00 -0.9
TTA 3.90 267 ePc 45 33.70 -1.8
38 abs. associated

& OCT 22, 1990 18h 55m 07.00s
37.692 N 122.513 W
DEPTH = 10.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.4 (BRK). Felt at
Daly City, San Francisco and
South San Francisco.

PCC 0.22 151 iP 55 11.30 -0.4
BRK 0.27 48 iPc 55 12.50 -0.2
iS 55 16.50
BKS 0.29 50 iPc 55 12.40 -0.6
ZSP 0.32 39 iPd 55 13.90 0.2
MHC 0.78 117 iPc 55 21.80 -0.4
iS 55 33.00
GCC 0.78 148 e(P) 55 21.40 -0.8
ARN 0.85 113 ePg 55 22.70 -0.7
SAO 1.26 137 eP 55 28.10 -2.3
CMB 1.72 78 ePd 55 36.00 -1.2
eS 55 57.00
9 obs. associated

? OCT 22, 1990 20h 38m 53.81±1.59s
20.379 N ±42.1km 97.598 E ±44.5km
DEPTH = 33.0km (normal)
BURMA (296)
Felt in Muong District,
Thailand.

CHG 2.01 141 ePn 39 26.00 -0.1
iPg 39 27.20
iSg 39 45.50
CHTO 2.01 141 iPn 39 26.20 0.1
iSn 39 45.00
BDT 3.39 157 ePn 39 45.70 0.0
ePg 39 52.10
eSg 40 30.00
LOE 4.90 126 ePn 40 20.20 13.0X
ePg 40 22.60
eSg 41 22.00
NST 5.27 152 eP 40 15.00 2.7X
GUN 13.06 307 P 42 00.00 0.0
GBA 20.41 254 Pd 43 44.90 14.0X
1.0s 5.30nm
S.D. = 0.2 an 4 of 7 obs.

? OCT 22, 1990 21h 10m 56.09±22.75s
43.342 N ±78.2km 0.666 W ±191.km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
ML 2.5 (LDG).

EPF 0.80 113 Pg 11 11.60 0.0
Sg 11 23.00
LFF 1.89 32 Pg 11 28.00 -0.7
Sg 11 50.00
LPO 1.89 44 Pg 11 28.00 -0.7
Sg 11 50.00
RJF 2.51 38 Pg 11 39.00 1.4
Sg 12 08.60
S.D. = 1.7 an 4 of 4 obs.

* OCT 22, 1990 22h 17m 44.69±2.27s
51.617 N ±9.8km 7.658 E ±19.3km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
ML 2.5 (BNS).

WTS 0.65 306 ePg 17 57.50 -0.2
BNS 0.72 205 eP 17 58.60 -0.3
0.2s 120.00nm
iS 18 11.00
STB 1.15 207 ePd 18 05.90 -0.2
0.3s 58.00nm
iS 18 23.60
KOE 1.19 178 iPd 18 06.90 0.0
KLL 1.29 222 eP 18 08.50 -0.1
iS 18 28.10
ENN 1.38 233 ePn 18 10.00 0.0
0.7s 26.00nm
eSn 18 29.50
MEM 1.45 227 P 18 11.30 0.4
S 18 31.40
DOU 2.47 233 P 18 32.10 6.5X
S.D. = 0.3 an 7 of 8 abs.

* OCT 22, 1990 22h 53m 31.25±0.40s
15.157 S ±14.3km 173.578 W ±14.3km
DEPTH = 33.0km (normal)
4.8mb (7 abs.) 4.5MsZ (3 abs.)
TONGA ISLANDS (173)

DZM 20.13 247 iPc 58 06.60 1.0
PUZ 23.94 196 eP 58 43.30 0.0
NOZ 24.51 196 P 58 49.00 0.2

22d 22h

LTZ	30.10	201	eP	59	35.50	-4.5X
STK	44.01	240	eP	01	37.30	-0.3
	1.8s	21.00nm			4.6mb	
WB5	49.71	257	eP	02	22.00	-0.6
ASPA	50.03	252	eP	02	23.80	-1.2
	0.8s	20.50nm			5.2mb	
Z	22s	0.30um			4.3msz	
TNP	74.78	43	iP	05	10.50	0.2
	1.0s	10.00nm			4.8mb	
PNT	79.90	33	eP	05	38.00	-0.3
DAU	79.94	43	iP	05	39.10	0.0
	1.0s	1.10nm			3.8mb	
PV09	80.46	46	iP	05	41.50	-0.3
ALO	80.78	50	eP	05	42.80	-0.7
	1.0s	7.00nm			4.6mb	
MCMT	81.17	39	eP	05	45.70	0.3
FBA	82.19	11	iP	05	50.20	0.3
	0.8s	10.34nm			4.9mb	
GOL	83.61	46	iP	05	58.00	-0.1
	1.0s	18.50nm			5.2mb	
SES	85.10	35	eP	06	05.00	-0.1
PRU	144.64	351	ePKP	13	06.00	-0.1
GRF	145.34	355	ePKPc	13	08.70	1.4
KHC	145.62	352	PKP	13	09.50	1.6
FLN	146.01	8	ePKP	13	05.90	-2.5
	1.0s	18.00nm				
Z	19s	0.08um			4.5msz	
LPF	146.64	9	ePKP	13	10.50	1.0
	1.1s	19.55nm				
CDF	146.83	359	ePKP	13	12.50	2.6X
	1.1s	9.75nm				
LOR	147.91	3	ePKP	13	15.30	3.7X
	1.4s	32.65nm				
Z	19s	0.08um			4.5msz	
SSF	148.10	4	ePKP	13	15.90	4.0X
	1.3s	19.85nm				
LBF	148.20	3	ePKP	13	16.10	4.0X
	1.0s	9.00nm				
S.D. = 1.0 on 20 of 25 obs.						

% OCT 22, 1990 23h 00m 12.27±1.46s
42.821 N ± 9.0km 13.738 E ± 13.7km
DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)

ASS	0.83	288	P	00	28.00	-0.3
			eSg	00	42.00	
AZI	0.86	195	P	00	30.50	1.7
			eSn	00	44.00	
ARV	0.89	320	P	00	30.70	1.3
			eSg	00	44.10	
MNS	0.89	241	P	00	30.30	0.9
			eSg	00	46.10	
SDI	1.12	177	P	00	32.50	-0.7
			eSn	00	49.50	
RMP	1.27	218	P	00	34.50	-1.3
DUI	1.28	155	P	00	36.00	0.0
			eSn	00	53.50	
PGD	1.81	306	P	00	42.50	-1.4
S.D. = 1.4 on 8 of 8 obs.						

% OCT 22, 1990 23h 51m 28.11±1.39s
44.349 N ± 6.5km 6.236 E ± 18.0km
DEPTH = 10.0km (geophysicist)

FRANCE (538)

ML 2.1 (LDG).

FRF	0.84	159	Pg	51	44.80	0.4
			Sg	51	56.00	
LRG	0.90	174	Pg	51	45.00	-0.3
			Sg	51	58.00	
SBF	0.99	119	Pg	51	46.80	-0.2
LMR	1.03	169	Pg	51	47.60	0.0
			Sg	52	01.80	
LPG	1.21	17	Pg	51	50.80	0.0
S.D. = 0.4 on 5 of 5 obs.						

? OCT 22, 1990 23h 51m 47.59±1.22s
16.282 N ± 21.4km 145.222 E ± 79.7km
DEPTH = 33.0km (normal)

MARIANA ISLANDS (216)

GUMO	2.70	187	eP	52	29.70	0.1
PJG	2.70	187	eP	52	29.70	0.1
GUA	2.74	186	eP	52	30.00	-0.3
			eS	53	00.20	

WB5	37.49	197	eP	59	00.30	0.2
YKA	80.33	28	eP	03	56.20	-0.4
	0.7s	4.60nm			4.6mb	
SES	86.09	39	eP	04	27.00	0.5
FFC	89.37	32	eP	04	42.00	-0.1
	0.7s	10.00nm			5.2mb	
ZOBO	148.01	95	PKP	11	33.20	3.6X
CNCB	148.19	96	PKP	11	34.00	4.1X
SIV	154.74	93	ePKP	11	48.00	9.2X
S.D. = 0.4 on 7 of 10 obs.						

* OCT 23, 1990 00h 10m 59.92±0.55s
15.546 N ± 8.5km 147.706 E ± 10.3km
DEPTH = 33.0km (normal)

MARIANA ISLANDS REGION (215)

GUA	3.36	234	eP	11	51.30	-0.1
			eS	12	29.00	
PJG	3.37	235	eP	11	51.80	0.3
GUMO	3.37	235	eP	11	52.60	1.1
MAT	22.56	340	eP	15	58.00	-0.6
	1.0s	18.00nm			4.5mb	
SSE	28.75	307	eP	16	55.00	-1.6
BJI	36.74	318	eP	18	05.50	-0.5
WB5	37.57	201	eP	18	11.80	-1.4
ASPA	41.24	199	iPd	18	43.30	-0.4
	1.2s	11.50nm			4.5mb	
KMI	43.06	290	eP	19	00.00	1.1
CHG	46.59	281	eP	19	27.40	0.4
STK	47.52	187	eP	19	32.70	-1.3
	0.8s	5.00nm			4.6mb	
MAID	79.56	305	eP	23	09.00	3.4X
ALO	93.68	52	eP	24	15.00	0.0
HFS	96.00	339	eP	24	32.80	7.8X
	0.6s	2.40nm			4.8mb	
KIC	145.09	307	PKP	30	36.58	0.0
	0.8s	6.50nm				
TIC	145.13	307	PKP	30	36.54	-0.1
LIC	145.40	307	PKP	30	37.52	0.4
ZOBO	145.56	96	PKP	30	39.00	1.0
LPB	145.60	97	(PKP)	30	40.00	2.1X
CNCB	145.73	97	PKP	30	40.00	1.7
SIV	152.31	95	PKP	30	54.60	6.8X
S.D. = 1.0 on 17 of 21 obs.						

? OCT 23, 1990 00h 35m 27.64±6.36s
34.158 S ± 27.3km 72.356 W ± 42.7km
DEPTH = 10.0km (geophysicist)

NEAR COAST OF CENTRAL CHILE (135)

LNV	0.81	76	iPd	35	44.00	0.7
			IS	35	52.50	
LCCH	0.94	44	iPd	35	46.00	0.4
			IS	35	55.00	
TACH	1.28	67	iPd	35	50.60	-0.8
CHCH	1.43	81	iP	35	54.00	0.3
			IS	36	11.60	
SAN	1.58	64	iPd	35	56.30	0.6
PCH	1.62	71	iP	35	55.50	-1.0
			IS	36	15.50	
ROCH	1.63	44	iPc	35	56.50	-0.2
FCH	1.91	65	iPc	36	01.00	0.1
			IS	36	26.00	
MDZ	3.19	68	eP	36	24.70	5.8X
S.D. = 0.7 on 8 of 9 obs.						

OCT 23, 1990 01h 34m 48.27±0.47s
39.512 N ± 3.5km 75.506 W ± 6.2km
DEPTH = 10.0km (geophysicist)

CHESAPEAKE BAY REGION (493)

mbLg 2.9 (NEIS). MD 3.2 (NED).
Felt (V) at Deepwater and
Quinton; (IV) at Greenwich,
Hancocks Bridge, Harrisonville,
Salem, Shiloh and Woodstown;
(III) at Bridgeton, Derrfield
Street, Glassboro, Paulsboro,
Penns Grove, Pennsauken,
Pennsville, Vineland and
Williamstown, New Jersey. Also
felt (IV) at Bear, Claymont,
Delaware City, New Castle,
Odessa, Port Penn, Saint Georges
and Smyrna, Delaware. Felt (IV)
at Concordville and (III) at
Chester and Lansdowne.

Pennsylvania.

BBD	0.21	219	iP	34	53.30	0.4
NED	0.25	321	iP	34	53.90	0.4
BVD	0.26	1	iP	34	53.70	-0.1
BWD	0.29	349	iP	34	54.30	-0.1
GTD	0.77	175	iP	35	03.10	-0.2
LVNJ	1.42	23	eP	35	14.10	0.1
GMTN	1.70	36	iP	35	19.60	1.5
PNJ	1.74	36	l(Pn)	35	20.10	1.5X
			Lg	35	42.20	
TBR	1.90	31	eP	35	21.50	0.5
NA2	2.23	232	eP	35	25.40	-0.4
WVLY	3.76	323	eP	35	47.20	-0.3
BLA	4.49	241	eP	35	58.10	0.1
RSNY	5.09	8	e(P)	36	06.00	-0.3
HBVT	5.18	20	eP	36	07.60	0.0
S.D. = 0.3 on 12 of 14 obs.						

? OCT 23, 1990 02h 32m 46.49±1.09s
63.336 N ± 12.9km 151.120 W ± 10.5km
DEPTH = 33.0km (normal)

CENTRAL ALASKA (1)

PMR	1.98	151	iPc	33	17.30	-1.0
FBA	2.14	41	iPd	33	20.20	-0.4
TTA	2.26	262	eP	33	22.60	0.3
TOA	2.59	116	iPd	33	28.20	1.1
IMA	2.96	339	iPd	33	28.30	-4.0X
S.D. = 1.6 on 4 of 5 obs.						

OCT 23, 1990 04h 08m 00.50±0.39s
21.940 S ± 4.2km 179.390 W ± 3.5km
DEPTH = 591.9 ± 5.3 km
5.3mb (54 obs.)

FIJI ISLANDS REGION (181)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P. 8.: 16S, 31C

Centroid Location:

Origin Time 04:08: 8.4 0.7

Lat 21.45S 0.07 Lon 179.64W 0.06

Dep 610.0 3.5 Half-duration 1.6

Moment Tensor: Scale 10¹⁷ Nm

Mrr=-0.14 0.05 Mtt=0.09 0.09

Mtf=0.05 0.09 Mrt=-0.44 0.06

Mrf=-1.61 0.07 Mtf=-0.35 0.06

Principal Axes:

T Val= 1.56 Plg=44 Azm= 93

N 0.26 10 193

P -1.82 44 293

Best Double Couple: Mo=1.7*10¹⁷

NP1: Strike=105 Dip=10 Slip=-178

NP2: 13 90 -80

SVA	4.31	332	iPc	09	28.40	0.4
			eS	10	29.00	
VUN	4.40	332	iPc	09	28.60	-0.2
SGE	5.01	329	iPc	09	34.80	1.2
NDF	5.11	324	iPc	09	38.30	4.0X
MBU	5.25	340	iPc	09	53.00	17.5X
BKM	12.39	288	iPd	10	45.00	1.9
DZM	13.14	267	iPc	10	51.80	1.2
			IS	13	11.10	
WLZ	16.43	194	P	11	26.30	3.9X
TAZ	16.62	191	P	11	26.70	2.5
NOZ	16.77	187	P	11	25.70	0.1
MNG	19.12	192	P	11	45.90	-1.9
			S	14	45.40	
KIW	19.47	193	P	11	49.80	-1.2
CAW	19.68	193	P	11	52.50	-0.4
WDW	19.85	193	P	11	54.20	-0.2
MRW	19.87	193	P	11	53.60	-1.0
			S	14	57.50	
TCW	19.95	194	P	11	55.30	0.0
THZ	20.80	196	P	12	03.10	-0.1
			S	15	13.80	
KHZ	21.26	195	P	12	06.40	-0.9

AFR	0.5s	45.00nm	5.4mb	SPA	0.7s	126.90nm	5.5mb	LZH	92.62	308	iPd	20	11.50	0.5
	28.19	86 iP	13 08.30	-0.5		68.19	180 iPc	18 06.20	1.9		1.5s	45.00nm		5.3mb
	0.8s	75.00nm	5.4mb			0.8s	25.83nm	4.8mb				pP	20 20.00	27kmX
PAE	28.34	87 iP	13 09.40	-0.7	KKM	68.89	286 ePd	18 08.50	-0.7			sP	20 26.50	
	0.8s	35.00nm	5.0mb			0.6s	53.80nm	5.3mb		SES	93.79	37 ePd	20 15.50	-0.4
PPT	28.37	87 iP	13 09.70	-0.7	MAT	70.61	325 iPd	18 17.30	-1.5	MDZ	94.21	128 eP	20 19.80	1.4
	0.8s	60.00nm	5.3mb			1.5s	102.78nm	5.1mb		QUE	120.56	293 ePKP	25 47.50	-0.2
PPN	28.51	87 iP	13 10.80	-0.8	ADK	73.54	2 iPd	18 32.90	-2.2	SOB1	128.86	123 ePKP	26 02.20	-1.6
	0.8s	35.00nm	5.0mb			0.4s	42.90nm	5.3mb				e	28 27.60	
TVO	28.62	87 iP	13 11.90	-0.7	SSE	77.63	311 P	18 57.00	-1.0			e	28 41.90	
	0.8s	75.00nm	5.4mb			1.0s	17.00nm	4.4mb		BUL	130.02	215 ePKP	26 03.00	-3.0X
RMQ	29.36	255 iPd	13 18.20	-0.6	SDN	78.64	11 iPd	19 01.20	-1.6	SOD	131.71	347 ePKP	26 08.00	0.4
	1.0s	265.00nm	5.6mb			79.06	46 eP	19 09.00	0.5			eSKP	28 38.00	
		e	17 32.00		PRS	79.75	44 eP	19 09.90	0.8	SUF	135.70	343 ePKP	26 09.00	-6.3X
CNB	30.35	237 iPc	13 28.80	1.6	MAW	79.78	200 iP	19 10.00	1.3	NUR	137.93	342 ePKP	26 12.00	-7.5X
	0.6s	134.00nm	5.7mb		PCC	79.81	43 eP	19 09.50	0.2			ePKP	26 08.00	-11.5X
PMO	30.62	82 iP	13 29.20	-0.3	BCH	79.91	46 iP	19 10.50	0.4		0.5s	11.20nm		
	0.8s	85.00nm	5.4mb		SAO	79.96	44 eP	19 11.80	1.6			i	26 19.80	
VAH	30.79	83 iP	13 30.90	0.0	BRK	80.11	42 eP	19 11.00	0.1			iSKP	28 57.80	
	0.8s	60.00nm	5.3mb		BKS	80.13	42 e(P)	19 11.50	0.5	HFS	140.73	350 ePKP	26 15.60	-9.0X
TPT	30.88	83 iP	13 31.50	-0.2		0.9s	47.00nm	4.9mb			0.3s	8.10nm		
	0.8s	75.00nm	5.4mb		AIA	80.15	157 eP	19 12.20	1.5	LWI	143.45	232 iPKPd	26 32.00	1.0
RUV	31.03	83 iP	13 32.80	-0.2	ARN	80.26	43 iP	19 14.00	2.3	KAS	146.06	313 ePKP	26 36.00	1.7
	0.8s	90.00nm	5.5mb		ABL	80.30	46 iP	19 14.40	2.2	EKA	146.53	4 PKPc	26 33.30	-1.2
CTA	32.09	267 iPd	13 41.70	-0.2	PAS	80.61	47 eP	19 13.00	-0.6		0.6s	7.20nm		
	0.7s	123.29nm	5.6mb		MWC	80.73	47 eP	19 14.00	-0.4	HRI	147.03	298 iPKPd	26 39.00	2.8X
		iPcP	16 12.80		PPI	80.75	273 eP	19 13.50	-1.2	BBTK	147.38	311 ePKP	26 40.00	3.4X
		iS	18 12.00		BAR	80.83	49 eP	19 15.00	0.2	DSI	147.62	295 iPKPd	26 40.00	3.4X
		iScP	19 02.40		FHC	80.89	39 eP	19 16.30	1.4	VRI	148.02	324 ePKPd	26 40.00	2.7X
		iScS	23 03.40		RVR	81.07	48 eP	19 16.00	0.1	HOL	148.18	290 PKP	26 42.10	4.1X
QLP	33.41	255 iPd	13 53.50	0.6	PLM	81.07	49 eP	19 17.00	0.8	BADA	148.28	289 PKP	26 42.50	4.3X
		e	19 08.00		SBB	81.15	47 eP	19 16.00	-0.4	RMN	148.41	293 iPKPd	26 42.40	4.0X
TOO	34.01	235 iPd	13 59.20	1.3	PEC	81.16	48 iP	19 16.30	-0.1	BMR	148.42	330 ePKPd	26 43.00	5.2X
	1.0s	157.00nm	5.6mb			0.9s	10.91nm	4.4mb		KSP	148.65	341 iPKPd	26 42.30	4.2X
PMG	34.45	286 iPd	14 01.10	-0.5	FRI	81.22	44 eP	19 16.50	-0.1			i	26 48.30	
	1.2s	406.25nm	5.9mb		ISA	81.26	46 eP	19 17.00	0.0			e	29 04.00	
STK	36.01	246 iPd	14 15.70	1.4	CMB	81.40	43 eP	19 17.70	0.2	SPC	148.66	335 iPKPd	26 41.80	3.4X
	0.6s	83.00nm	5.5mb		WDC	81.61	40 eP	19 18.80	0.3	MLR	148.68	325 ePKP	26 37.00	-1.5X
		iS	19 12.80		ORV	81.61	41 eP	19 17.80	-0.7	WIT	148.83	353 ePKP	26 42.50	4.3X
		i	20 14.10		MIN	82.02	41 eP	19 20.20	-0.6	GPA	148.89	313 ePKP	26 42.90	4.1X
		e	23 24.40		TPC	82.05	48 eP	19 21.00	0.1	CLL	149.13	345 ePKP	26 39.00	0.3
BFD	36.16	237 eP	14 18.00	2.5	IPM	82.08	278 ePd	19 22.80	1.4	BRG	149.29	343 iPKPd	26 43.80	4.8X
		e	19 18.00			1.0s	126.00nm	5.4mb			1.4s	70.00nm		
QIS	38.16	264 iPd	14 31.30	-0.8	GSC	82.19	47 eP	19 21.00	-0.6			i	26 49.60	
	0.3s	16.00nm	5.0mb		GLA	82.34	50 eP	19 23.00	0.6			e	29 26.00	
		i	16 31.00		LBFM	82.46	40 iPc	19 23.20	0.2	WTS	149.62	352 iPKP	26 44.20	4.8X
		i	19 24.50		SNG	83.46	280 iPd	19 29.70	1.5		0.7s	42.00nm		
ADE	38.79	241 iPd	14 37.30	0.2		1.2s	156.25nm	5.5mb				e	26 51.00	
	1.0s	112.00nm	5.4mb		TNP	83.46	45 iPc	19 27.80	-0.3	PRU	149.93	342 iPKPd	26 46.00	6.0X
RKT	40.93	100 iP	14 54.80	0.6		1.1s	43.83nm	4.9mb				e	26 51.20	
	1.0s	80.00nm	5.2mb		BMW	84.90	35 iP	19 35.10	0.4	MOX	150.08	346 ePKP	26 45.00	4.8X
ASPA	42.95	258 iPd	15 09.90	-0.4	GMW	85.82	35 iP	19 39.40	0.4		1.4s	49.00nm		
	1.2s	262.90nm	5.6mb		LON	85.84	36 iP	19 39.00	-0.2	SRO	150.53	335 iPKP	26 46.40	5.5X
		ePcP	16 46.60		BJI	86.01	316 P	19 40.00	-0.1	ELL	150.65	307 ePKP	26 47.20	5.5X
		iScP	19 43.70			2.0s	166.00nm	5.4mb		ZST	150.66	337 iPKP	26 46.70	5.6X
		iS	20 50.90				eSKS	29 08.00				e	26 56.50	
		iScS	24 05.40				eS	29 28.00		BZS	150.80	329 ePKP	26 46.00	4.6X
WB5	43.12	264 iPd	15 10.90	-0.8	RMW	86.28	35 iP	19 41.70	0.4	ENN	150.93	353 ePKP	26 42.00	0.6
		iScP	19 44.50		MCW	86.51	34 iP	19 42.80	0.5		0.8s	21.00nm		
		eS	20 53.30		PMR	86.72	14 iPd	19 41.90	-1.1			e	26 57.00	
FORR	47.51	248 iPd	15 44.70	-0.4		0.7s	19.50nm	4.9mb		KHC	150.97	342 ePKP	26 41.70	0.0
	0.4s	162.00nm	5.9mb		NST	87.23	288 eP	19 48.00	1.7			i	26 48.00	
WARB	49.17	254 iPd	15 57.00	-0.6	DUG	87.48	45 eP	19 36.00	-11.3X	GRF	151.06	346 ePKPd	26 48.00	6.3X
	0.3s	47.00nm	5.5mb		DPW	88.47	36 iP	19 51.50	-0.1			e	26 58.20	
KNA	49.27	268 iPd	15 57.40	-1.0	PNT	88.57	34 ePc	19 52.00	0.1	MEM	151.07	353 PKPd	26 47.60	6.0X
	0.3s	132.00nm	5.9mb			0.9s	39.00nm	5.3mb		DOU	151.73	355 PKP	26 49.30	6.7X
GUA	49.69	312 e(P)	16 00.20	-1.2	BDT	88.85	289 eP	19 55.80	2.0	CDF	153.05	350 ePKP	26 50.50	5.8X
GUMO	49.76	312 e(P)	16 00.50	-1.4		1.0s	62.10nm	5.5mb			0.4s	2.85nm		
PJG	49.76	312 e(P)	16 00.70	-1.2	KMI	88.85	298 Pd-	19 55.00	1.0	FLN	153.22	2 ePKP	26 51.70	6.9X
COOL	53.47	247 iPd	16 27.40	-1.3	PTI	89.16	43 iPd	19 55.60	0.6		0.4s	7.45nm		
	0.3s	10.00nm	4.7mb		NEW	89.29	36 eP	19 53.70	-1.6	LDF	153.40	1 ePKP	26 52.00	7.0X
MBL	56.19	259 iPd	16 46.50	-1.2		0.9s	6.03nm	4.5mb			0.4s	4.60nm		
	0.3s	80.00nm	5.5mb		ALQ	89.31	52 ePc	19 55.80	-0.1	GRR	153.58	2 ePKP	26 52.80	7.6X
KLB	56.28	246 iPd	16 47.30	-0.8X		1.0s	17.50nm	4.9mb			0.5s	6.55nm		
	0.3s	41.00nm	5.2mb				epP	22 00.00	567kmX	HAU	153.59	351 ePKP	26 51.30	6.0X
MEKA	56.31	252 iPd	16 47.20	-1.2	ANMO	89.31	52 iPd	19 55.40	-0.5	LPF	153.93	3 ePKP	26 53.40	7.7X
NWAO	56.57	244 iPd	16 49.70	-0.4		1.0s	17.50nm	4.9mb			0.5s	8.75nm		
RKG	56.65	243 eP	16 50.10	-0.5	CHG	89.52	290 iPd	19 58.10	1.2	LOR	154.59	355 ePKP	26 54.70	8.0X
	0.4s	33.00nm	5.0mb			1.2s	101.17nm	5.6mb			0.6s	3.60nm		
BAL	57.29	247 iPd	16 54.10	-1.0	IMA	89.88	10 iPc	19 57.10	-0.6	MFF	155.39	1 ePKP	26 56.50	8.7X
	0.4s	33.00nm	4.9mb			0.6s	5.00nm	4.6mb		BCAO	155.41	228 ePKPd	26 57.60	8.8X
MUN	57.54	245 iPd	16 56.30	-0.4	FBA	89.92	13 iPc	19 56.60	-1.2		0.6s	39.00nm		
	0.9s	102.00nm	5.1mb			0.6s	16.60nm	5.1mb				i	27 18.50	
MRWA	58.11	248 iPd	16 59.70	-0.9	BW06	90.90	44 eP	20 02.20	-0.9	LIC	163.45	160 PKP	26 57.60	0.1
NANU	59.78	256 iPd	17 11.30	-0.5		1.1s	18.35nm	5.0mb		KIC	163.67	161 PKP	26 58.00	0.3
	0.3s	58.00nm	5.3mb		GOL	92.24	48 iPd	20 09.30	-0.1	TIC	163.85	159 PKP	26 58.00	0.1
TRT	66.76	271 iPd	17 55.80	-0.4		0.9s	11.36nm	4.9mb			S.D. = 1.0	on 134 of 177 obs.		

OCT 23, 1990 05h 59m 33.54 ± 1.01s
39.047 N ± 8.4km 27.756 E ± 12.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.9 (ISK).

IZM 0.75 211 iPg 59 48.20 -0.1
eSg 59 59.10
EDC 1.30 4 iPn 59 57.00 -0.6
BNT 1.31 5 ePn 59 58.00 0.2
EZN 1.35 306 ePn 59 58.70 0.3
KHL 1.56 117 ePn 00 07.00 5.6X
IZI 1.85 45 ePn 00 05.90 0.3
S.D. = 0.5 on 5 of 6 obs.

OCT 23, 1990 06h 34m 26.08 ± 0.77s
44.323 N ± 5.2km 6.746 E ± 6.0km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.2 (GEN).

PZZ 0.31 54 P 34 32.78 0.1
S 34 37.40
STV 0.42 101 P 34 34.42 -0.3
S 34 40.27
ENR 0.49 101 P 34 35.45 -0.7
S 34 42.01
SBF 0.68 133 Pg 34 41.20 1.6
FRF 0.77 185 Pg 34 40.80 -0.2
Sg 34 51.20
ROB 0.81 92 P 34 41.81 0.0
S 34 52.78
LRG 0.91 198 Pg 34 43.10 -0.4
Sg 34 55.80
IMI 0.92 116 P 34 43.35 -0.4
S 34 54.93
LMR 1.00 190 Pg 34 45.20 0.1
Sg 34 58.50
LPL 1.19 360 Pg 34 48.60 0.1
S.D. = 0.7 on 10 of 10 obs.

OCT 23, 1990 08h 49m 12.50s
38.733 N 111.525 W
DEPTH = 1.0km
UTAH (478)
<SLC-P>. CL 3.2 (SLC).

SGU 0.46 348 P 49 22.00 0.3
MSU 0.55 247 P 49 23.30 -0.3
MMU 0.56 161 P 49 23.30 -0.5
DAU 1.69 7 P 49 44.00 0.4
PV09 1.89 96 P 49 47.50 1.0
5 obs. associated

OCT 23, 1990 09h 05m 46.48s
60.817 N 151.238 W
DEPTH = 59.1km
KENAI PENINSULA, ALASKA (14)
<AGS-P>.

NKA 0.07 180 eP 05 56.96 3.2
SPU 0.54 313 iP 05 58.49 -0.5
eS 06 08.51
SLKM 0.59 121 iP 05 58.97 -0.5
CGLM 0.62 323 iP 05 59.43 -0.5
RDT 0.62 248 iP 05 59.20 -0.8
eS 06 09.79
CRP 0.64 316 eP 05 59.90 -0.3
CKL 0.66 306 iP 05 59.80 -0.6
SUA 0.69 20 iP 06 00.32 -0.5
eS 06 11.72
BGL 0.72 309 iP 06 00.65 -0.5
eS 06 12.20
NCG 0.74 323 iP 06 00.89 -0.5
eS 06 12.35
NNL 0.78 182 eP 06 02.51 0.8
RSO 0.83 245 eP 06 01.87 -0.7
RED 0.86 243 eP 06 01.67 -1.1
PMS 0.92 62 eP 06 03.24 -0.4
eS 06 16.09
PWA 1.06 38 eP 06 05.10 -0.4
BRLK 1.07 170 eP 06 05.33 -0.3
SEW 1.14 128 eP 06 05.15 -1.3
SKT 1.18 353 eP 06 06.27 -0.8
HOM 1.18 190 eP 06 07.43 0.4
eS 06 23.87

PLRM 1.28 52 eP 06 07.48 -1.0
CNPM 1.30 180 eP 06 08.00 -0.7
eS 06 24.93
GHO 1.47 48 eP 06 09.97 -1.2
OPT 1.53 221 eP 06 11.74 -0.2
CUT 1.66 16 eP 06 12.99 -0.7
SML 1.72 53 eP 06 13.25 -1.3
PDB 1.80 236 iP 06 14.10 -1.5
GLI 2.03 86 eP 06 16.07 -2.8
KLU 2.67 73 eP 06 25.36 -2.5
TOA 2.75 60 eP 06 28.41 -0.7
29 obs. associated

OCT 23, 1990 09h 13m 04.24 ± 0.61s
3.120 N ± 9.9km 75.282 W ± 11.6km
DEPTH = 33.0km (normal)
4.2mb (2 obs.)
COLOMBIA (103)
Felt at Florencia.

BOG 1.92 39 iPc 13 38.00 2.4
iS 14 09.00
FUQ 2.80 33 eP 13 57.00 9.1X
PSO 2.80 227 eP 13 48.00 0.0
CAYA 4.05 222 P 14 04.00 -2.0
eS 15 08.60
COTA 4.12 228 eP 14 07.60 0.6
eS 15 14.00
BMG 4.50 29 eP 14 13.00 1.0
YANA 4.60 226 eP 14 13.80 0.1
eS 15 21.60
QUR 4.61 225 eP 14 15.00 1.2
eS 14 25.00
VC1 4.86 220 P 14 16.20 -1.3
TUNG 5.51 215 eP 14 19.00 -7.4X
SDV 7.36 39 ePn 14 51.40 -1.0
TOV 8.58 39 iPnd 15 06.90 -2.3
iSn 16 40.80
CEOS 9.07 49 eP 15 10.50 -5.5X
eS 17 50.00
GUAC 10.61 48 eP 15 32.00 -5.3X
eS 17 30.00
QLLA 10.86 50 eP 15 30.00 -10.6X
CAR 11.07 48 eP 15 42.00 -1.6
LLAV 11.14 49 eP 15 39.00 -5.5X
NNA 15.09 186 iP 16 43.00 6.1X
0.7s 13.70nm 4.3mb
ZOBO 20.52 160 P 17 43.00 -0.2
e 23 41.00
LPB 20.78 160 (P) 17 53.00 7.4X
e 23 13.00
CNCB 21.07 160 P 17 49.00 0.2
e 23 40.00
SIV 23.62 144 iPc 18 15.20 1.7
ALO 42.89 321 eP 21 02.80 1.1
0.9s 3.78nm 4.1mb
S.D. = 1.5 on 15 of 23 obs.

OCT 23, 1990 10h 01m 47.38 ± 0.89s
42.180 N ± 7.5km 13.402 E ± 12.1km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)
AQU 0.17 0 P 01 51.30 0.0
eSg 01 54.10
AZI 0.19 173 P 01 51.50 -0.1
eSg 01 56.50
SDI 0.57 147 P 01 59.00 0.1
eSg 02 07.50
MNS 0.57 291 P 01 59.10 0.1
eSg 02 06.70
S.D. = 0.2 on 4 of 4 obs.

OCT 23, 1990 10h 27m 39.42 ± 1.00s
37.890 N ± 9.9km 12.773 E ± 9.7km
DEPTH = 10.0km (geophysicist)
SICILY (398)
ERC 0.21 315 P 27 44.10 0.1
CVT 0.21 176 P 27 43.70 -0.3
eSg 27 50.20
FAI 0.94 130 P 27 58.70 1.3
GIB 1.00 84 P 27 58.40 0.0
MEU 1.89 114 P 28 10.90 -1.2
S.D. = 1.3 on 5 of 5 obs.

OCT 23, 1990 10h 52m 33.13 ± 0.48s

10.072 N ± 6.4km 104.004 W ± 7.8km
DEPTH = 10.0km (geophysicist)
4.6mb (8 obs.) 4.5Msz (1 obs.)
OFF COAST OF MEXICO (63)

III 9.35 28 (P) 54 51.00 -0.2
OXX 9.93 45 (P) 54 59.50 0.3
MRX 9.95 16 (P) 55 02.50 3.2X
PPM 10.34 30 (P) 55 04.00 -1.2
IIJ 10.45 23 (P) 55 08.00 1.3
ALO 24.86 355 eP 57 57.90 0.5
1.0s 8.00nm 4.3mb
ANMO 24.86 355 P 57 58.60 1.1
1.0s 13.13nm 4.6mb
GLA 24.95 338 eP 58 05.00 6.8X
BAR 25.36 334 eP 58 03.00 1.0
PLM 26.02 335 eP 58 09.00 0.7
SIO 26.50 14 eP 58 19.30 6.7X
RVR 26.78 335 eP 58 15.00 -0.2
TUL 26.78 15 e(P) 58 25.80 10.6X
1.0s 0.50nm
Z 18s 1.23um 4.5Msz
LR 06 00.00
MWC 27.27 334 eP 58 10.00 -9.9X
SBB 27.57 335 eP 58 23.00 0.6
GSC 27.69 337 eP 58 23.00 -0.6
CLC 28.45 336 eP 58 30.00 -0.4
ISA 28.68 335 eP 58 32.00 -0.4
DAU 30.89 349 P 58 52.00 -0.5
DUG 31.00 347 P 58 53.20 0.0
BW06 32.94 352 P 59 09.80 -0.4
1.0s 6.88nm 4.5mb
LRM 36.35 350 eP 59 40.00 0.5
LON 39.57 341 P 00 06.10 -0.1
NEW 39.63 346 P 00 06.20 -0.5
1.0s 15.63nm 4.6mb
SES 40.62 353 eP 00 15.00 0.2
ZOBO 44.11 126 P 00 45.00 0.7
1.0s 14.00nm 4.8mb
LR 15 20.00
LPB 44.28 126 P 00 46.00 0.5
CNCB 44.53 127 P 00 49.00 1.3
FFC 44.57 2 eP 00 46.00 -0.9
1.0s 12.00nm 4.7mb
CCH 46.30 126 P 01 00.70 -0.8
SIV 49.77 121 P 01 26.80 -1.4
YKA 52.89 354 eP 01 49.90 -1.3
1.0s 3.70nm 4.3mb
MBC 66.67 356 eP 03 26.00 0.2
1.0s 6.00nm 4.7mb
S.D. = 0.8 on 28 of 33 obs.

OCT 23, 1990 11h 23m 58.80 ± 0.24s
16.580 S ± 7.7km 173.522 W ± 9.5km
DEPTH = 93.1km (4 depth phases)
5.0mb (12 obs.)
TONGA ISLANDS (173)

DZM 19.67 251 iPc 28 25.00 1.9
HBZ 22.15 197 P 28 51.20 3.4X
PUZ 22.60 197 P 28 52.60 0.3
NOZ 23.17 197 eP 29 00.10 2.3
WLZ 23.25 202 P 29 00.80 2.2
TAZ 23.28 200 eP 29 01.50 2.6X
PGZ 25.53 198 eP 29 19.30 -1.0
MNG 25.78 200 eP 29 23.10 0.5
BLW 26.46 199 eP 29 28.30 -0.6
TCW 26.71 201 eP 29 28.90 -2.2
KHZ 28.03 201 eP 29 41.00 -2.0
LTZ 28.80 202 eP 29 46.80 -3.2X
CMS 39.74 241 iPd 31 22.90 -1.1
STK 43.36 241 eP 31 52.80 -0.7
0.6s 4.00nm 4.4mb
WB5 49.45 258 eP 32 39.20 -2.5
ASPA 49.65 253 iPd 32 41.50 -1.7
0.7s 14.60nm 5.1mb
eP 33 03.80 92km
NANU 66.58 252 eP 34 40.50 -1.0
0.5s 9.00nm 5.0mb
SYP 71.91 44 eP 35 13.00 -1.1
PRS 72.07 42 eP 35 15.30 0.4
SAO 72.29 42 eP 35 16.20 0.1
PRI 72.41 43 eP 35 17.60 0.6
BRK 72.45 40 eP 35 16.60 -0.4
BKS 72.47 40 e(P) 35 17.50 0.3
LLA 72.52 42 eP 35 17.80 0.3
MWC 73.04 46 eP 35 20.00 -0.8

23d 15h

RMO	21.35	193	eP	19 12.50	-1.2		0.9s	77.20nm	5.7mb		0.8s	8.42nm	5.3mb		
			i	19 25.40				e	24 56.20		ALO	101.07	56 e(Pd) 28 33.00 18.10		
BRS	21.69	183	iPd	19 18.00	0.8	SNG	54.69	283 iPd	23 55.20 0.0		Z	22s	0.46um	5.0msz	
			i	19 26.00			1.0s	100.00nm	5.8mb		HFS	117.83	339 ePKP	33 09.00 -1.5	
OLP	22.82	203	e(S)	23 14.00		LOE	56.38	295 iPc	24 08.00 0.6			0.8s	4.50nm		
WB5	23.73	232	eP	19 29.00	0.7	BJI	57.18	326 eP	24 11.50 -1.2		Z	19s	0.21um	4.8msz	
			iP	19 37.90	0.7		1.5s	39.00nm	5.3mb			LR	16 28.00		
			iPcP	23 21.20			Z	24s	0.64um		NAO	118.33	340 PKP	33 11.40 -0.1	
			eS	23 49.10				epP	24 21.50 33kmX			0.5s	0.80nm		
COO	24.92	184	iPd	19 50.10	1.6	NST	57.30	293 eP	24 15.00 1.1		BUL	120.49	243 iPKPc	33 13.80 -3.2X	
ASPA	26.35	225	iPc	20 01.30	-0.6	PMO	57.85	104 eP	24 17.00 -0.8			1.0s	42.50nm		
	1.1s							eS	32 16.00		KRI	120.62	247 iPKPd	33 20.50 3.2X	
Z	21s							1.2s	60.00nm		CLL	124.09	331 iPKPd	33 26.50 3.7X	
			iPcP	23 27.30		RUV	58.36	104 eP	24 21.00 -0.3		SKO	124.47	318 ePKP	33 25.70 1.9	
			iPcS	27 06.40			1.2s	50.00nm	5.5mb		KHC	125.20	329 ePKP	33 27.00 1.9	
			eScS	30 54.20		KMI	58.36	304 Pc+	24 22.50 1.0		CNCB	132.97	119 PKP	33 41.00 -0.5	
KNA	26.67	246	eP	20 04.00	-0.8		1.5s	260.00nm	6.1mb		ZOBO	133.07	118 PKP	33 39.00 -2.7X	
CMS	26.84	195	ePd	20 06.20	-0.1		Z	24s	1.00um		BCAO	135.55	271 iPKPd	33 28.20 -17.6X	
			i	20 19.80		BDT	58.80	294 iPc	24 25.50 1.1			0.6s	17.00nm		
			e	23 28.00			0.9s	78.70nm	5.8mb			i	33 45.60		
STK	28.58	202	eP	20 21.10	-0.9	CHG	59.34	296 iPc	24 29.00 0.8		SIV	139.25	122 PKP	33 43.80 -8.8X	
	0.8s						1.1s	132.91nm	6.0mb		PPD	143.05	139 (PKP)	33 55.00 -4.2X	
			i	23 32.10		ADK	62.52	20 P	24 47.40 -1.7		VAO	145.00	145 (PKP)	34 02.00 -0.6	
			e	27 12.30				pP	25 07.00 75kmX		IFR	146.08	328 ePKP	34 06.00 1.7	
BWA	29.13	189	eP	20 26.20	-0.8	LZH	62.58	316 iPc	24 51.00 1.0		JFO	148.01	149 ePKP	34 11.60 4.1X	
			iPcP	23 33.90			1.5s	393.00nm	6.3mb		BAO	149.73	134 ePKP	34 10.20 -0.2	
CNB	29.86	188	iPd	20 34.70	1.1		Z	20s	0.73um		PDCR	157.80	144 ePKP	34 19.00 -2.4X	
CAN	29.92	188	eP	20 34.60	0.6			pP	25 00.50 31kmX		KIC	158.77	273 PKP	34 34.76 12.2X	
			ePcP	23 31.10				sP	25 07.00		LIC	159.06	273 PKP	34 35.32 12.5X	
ADE	32.42	204	eP	20 56.00	0.0			PcP	25 32.50			Z	20s	0.25um	5.1msz
TOO	32.74	192	eP	20 59.00	0.3			PP	27 04.00		LKO	159.32	282 PKP	34 34.70 11.5X	
			i	23 43.20				eS	33 15.00		CAI	163.66	137 ePKP	34 26.70 -0.9	
BFD	33.10	197	eP	21 03.00	1.2			sS	33 35.00			S.D. = 0.9	on 120 of 140 obs.		
			i	23 45.50		SBA	72.52	177 iPc	25 53.00 1.6						
WARB	33.13	229	eP	21 02.10	-0.2	GUN	73.49	301 Pc	25 59.20 0.8						
	0.4s					PKI	73.80	301 Pc	26 00.70 0.5		& OCT 23, 1990	15h 14m 46.66s			
FORR	34.92	221	iPd	21 16.50	-1.0	KKN	73.97	301 Pc	26 01.70 0.6		60.237 N	152.707 W			
	0.5s					DMN	74.07	301 Pc	26 02.80 1.1		DEPTH = 100.5km				
MBL	36.47	242	eP	21 30.00	-0.8	GKN	74.58	301 Pc	26 05.20 0.7		SOUTHERN ALASKA		(2)		
WLZ	37.67	151	P	21 41.50	0.9	KDC	76.41	26 P	26 14.00 0.0		<AGS-P>.				
QCP	38.28	302	eP	21 37.00	-9.0X	SVW	77.12	23 eP	26 18.50 0.5		RED	0.19	350 iP	15 00.54 1.0	
CNZ	38.74	153	P	21 50.70	0.9		0.7s	12.10nm	5.0mb		RSO	0.23	354 iP	15 00.86 1.0	
WHH	38.93	152	P	21 51.10	-0.2	KOD	77.74	282 eP	26 23.50 0.8		RDT	0.37	24 iP	15 01.31 -0.7	
PUZ	39.17	149	Pc	21 53.10	-0.1	HYB	77.81	289 iPc	26 23.00 0.4				iS	15 14.26	
NOZ	39.47	150	Pc	21 56.00	0.3		1.0s	50.00nm	5.5mb		OPT	0.64	204 eP	15 03.40 -0.5	
BAG	39.58	304	eP	21 57.00	-0.1	TTA	78.11	21 iPc	26 23.90 0.4				eS	15 16.21	
	1.3s						0.9s	21.00nm	5.1mb		NNL	0.73	105 iP	15 04.80 0.1	
COOL	39.74	227	eP	21 58.00	-0.1	GBA	78.26	285 Pc	26 25.30 0.2		HOM	0.79	137 eP	15 04.88 -0.3	
THZ	39.78	158	P	21 57.90	-0.4		1.5s	91.20nm	5.5mb				eS	15 19.23	
TCW	39.85	156	P	21 58.80	0.0	PMR	79.95	24 iPd	26 33.10 -0.3		PDB	0.87	240 iP	15 05.13 -0.9	
MNG	39.87	154	P	21 58.50	-0.5		0.6s	13.10nm	5.0mb		NKA	0.89	54 eP	15 07.20 1.0	
CAW	40.09	155	P	22 00.30	-0.5	IMA	80.84	19 iPc	26 37.10 -1.1		CKL	0.98	11 iP	15 06.55 -0.8	
WEL	40.12	155	P	22 00.00	-1.0		0.8s	14.30nm	5.0mb				eS	15 22.16	
WDW	40.19	155	P	22 01.10	-0.5	NDI	81.10	300 iPc	26 40.00 -0.2		SPU	1.00	18 iP	15 06.55 -0.9	
PGZ	40.21	153	P	22 01.10	-0.7	TOA	81.42	24 ePd	26 41.60 0.4				eS	15 22.25	
MTW	40.32	155	P	22 01.80	-0.9		1.2s	95.80nm	5.6mb		CNPM	1.03	133 eP	15 06.87 -0.9	
LTZ	40.43	159	P	22 03.30	-0.4	FBA	82.22	21 iPc	26 43.60 -1.6				eS	15 22.89	
BLW	40.48	155	P	22 03.10	-0.9		0.6s	28.40nm	5.4mb		BGL	1.04	8 iP	15 07.41 -0.6	
KHZ	40.59	158	P	22 03.70	-1.1	POO	82.41	289 iPc	26 47.30 0.1		CRP	1.07	14 eP	15 07.62 -0.7	
			e	22 13.10		SPA	84.43	180 iPc	26 57.80 1.1		CGLM	1.13	17 iP	15 08.08 -0.9	
NANU	40.71	242	eP	22 05.40	-0.7		1.0s	153.00nm	6.0mb		NCC	1.20	13 eP	15 09.19 -0.6	
TRT	41.05	265	ePc	22 09.20	0.2			i	27 17.30		SLKM	1.26	77 eP	15 09.23 -1.3	
MOZ	41.38	159	P	22 11.00	-0.3	MAW	85.26	203 iPc	27 01.40 0.8		MCNL	1.34	219 eP	15 10.06 -1.3	
KLB	42.59	228	eP	22 19.90	-1.5	WDC	88.71	49 e(P)	27 01.60 -16.3X		CDD	1.40	200 eP	15 10.59 -1.5	
KAGJ	42.69	330	eP	22 22.30	0.1	PRS	89.03	54 e(P)	27 19.70 0.1		SUA	1.56	37 eP	15 13.01 -1.2	
MRWA	42.83	232	iPd	22 23.00	-0.4	PRI	89.57	54 e(P)	27 22.80 0.5		SEW	1.63	93 eP	15 12.87 -2.1	
	0.8s					CMB	90.03	52 e(P)	27 23.70 -0.5		SVW	1.68	303 eP	15 13.52 -2.1	
BAL	42.90	230	eP	22 23.00	-1.0	QUE	90.17	300 iPc	27 25.60 0.3		SKT	1.84	18 eP	15 16.22 -1.5	
KUMJ	43.83	331	P	22 31.40	0.0		0.9s	1105.04nm	7.2mb X		PMS	1.85	55 eP	15 16.50 -1.3	
MUN	43.93	229	eP	22 31.80	-0.5	FRI	90.44	53 e(P)	27 24.70 -1.4				eS	15 38.63	
	1.0s					ISA	91.28	54 eP	27 41.00 10.9X		PWA	1.98	43 eP	15 17.94 -1.5	
RKG	44.38	225	eP	22 38.30	2.3	MWC	91.48	56 eP	27 33.00 1.8		PLRM	2.21	51 eP	15 20.32 -2.2	
MAT	44.43	342	eP	22 34.00	-2.3	SBB	91.71	55 eP	27 33.00 0.9		GHO	2.40	48 eP	15 22.79 -2.4	
	0.9s					PNT	91.90	41 eP	27 36.00 3.4X		CUT	2.47	27 eP	15 25.17 -0.8	
MTMJ	44.60	341	P	22 36.20	-1.6		0.6s	4.00nm	5.0mb		KNIM	2.48	85 eP	15 22.59 -3.5	
NIJ	44.84	343	P	22 38.20	-1.3	CLC	92.01	54 eP	27 34.00 0.6		SML	2.65	52 iP	15 25.78 -2.7	
SHNJ	45.02	333	P	22 40.00	-1.0	RVR	92.02	56 eP	27 35.00 1.6		GLI	2.85	74 eP	15 28.66 -2.4	
YAMJ	45.43	345	P	22 43.40	-0.8	PLM	92.39	57 eP	27 38.00 2.6X		KLU	3.55	66 eP	15 37.16 -3.6	
SSE	48.06	321	Pc	23 05.00	0.0	BAR	92.49	58 eP	27 37.00 1.3			31 obs. associated			
	1.0s					TNP	92.52	52 P	27 35.00 -0.9						
Z	20s					GSC	92.60	55 eP	27 39.00 2.8X		? OCT 23, 1990	15h 32m 16.51±1.42s			
			sP	23 14.00		NEW	93.44	42 P	27 40.00 0.3		40.290 N ±51.5km	28.122 E ±13.0km			
			PP	24 55.50		MBC	94.62	14 eP	27 43.50 -1.1		DEPTH = 5.0km	(geophysicist)			
			eS	27 08											

7 OCT 23, 1990 15h 32m 16.51±1.42s
 40.290 N ±51.5km 28.122 E ±13.0km
 DEPTH = 5.0km (geophysicist)
 TURKEY (366)
 MD 2.6 (ISK).

KCT 0.18 103 eSg 32 23.70
 EDC 0.21 286 iPg 32 20.20 -0.1
 IZI 1.03 87 iSg 32 24.00
 BBTk 3.59 96 ePn 32 36.70 0.1
 S.D. = 0.4 on 4 of 5 obs.

& OCT 23, 1990 17h 17m 39.07s
 61.820 N 150.606 W
 DEPTH = 48.9km
 SOUTHERN ALASKA (2)
 <AGS-P>.

SUA 0.36 190 iP 17 48.97 0.0
 PWA 0.39 116 eP 17 48.92 -0.1
 SKT 0.47 291 iP 17 49.14 -0.8
 CUT 0.61 15 iS 17 57.59
 PLRM 0.74 107 iP 17 50.91 -0.7
 PMR 0.74 107 eS 17 52.51 -0.9
 PMS 0.76 139 iPc 18 04.57
 GH0 0.80 93 eS 17 52.50 -0.9
 CGLM 0.84 233 eP 17 52.98 -0.8
 NCG 0.85 241 iS 18 05.49
 CRP 0.93 234 eS 17 53.85 -0.5
 SPU 0.94 228 iP 18 06.31
 BGL 1.02 238 eP 17 54.04 -0.9
 CKL 1.04 234 eS 18 06.41
 SML 1.08 90 iP 17 54.02 -1.0
 NKA 1.12 196 eS 18 06.27
 HUR 1.25 21 eS 17 55.62 -0.5
 SLKM 1.33 172 eP 18 08.47
 RDT 1.52 216 iP 18 08.47
 SCM 1.56 88 eP 17 55.44 -0.8
 RSO 1.72 218 eS 18 08.35
 RED 1.76 218 eP 17 56.86 -0.5
 RND 1.79 26 eP 17 56.62 -1.0
 SEW 1.81 161 eP 17 57.32 -0.8
 GLI 1.94 118 eP 18 00.66 2.0
 KNIM 2.03 135 eP 17 59.83 -0.6
 VZW 2.09 110 eP 18 16.40
 TOA 2.11 80 iPd 18 00.78 -0.8
 VLZ 2.16 107 eP 18 03.59 -0.8
 KLU 2.26 96 eP 18 23.17
 CNPM 2.32 188 eP 18 04.24 -0.6
 SDG 2.48 71 eP 18 24.73
 SVW 2.51 256 iPc 18 06.12 -1.1
 TTA 2.75 296 iPd 18 06.76 -0.9
 GLB 3.27 94 eP 18 07.29 -0.8
 FBA 3.34 21 iPc 18 08.46 0.1
 IMA 4.48 344 iPc 18 08.34 -1.8
 37 obs. associated

? OCT 23, 1990 17h 26m 24.30 ± 2.34s
 5.005 S ± 38.5km 103.199 E ± 43.6km
 DEPTH = 62.0 ± 18.6 km
 4.0mb (2 obs.)
 SOUTHERN SUMATERA (274)

PPI 5.31 328 eP 27 43.00 0.0
 CHTO 24.04 350 e(S) 28 46.00
 WB5 33.74 119 eP 31 34.80 0.1
 ASPA 34.92 125 iPd 33 01.80 -0.4
 PKI 36.66 333 P 33 12.60 0.4
 GUN 36.74 334 P 33 27.00 -0.2
 DMN 36.83 333 P 33 27.00 0.1
 KKN 36.91 333 P 33 28.00 0.0
 GKN 37.38 332 P 33 29.00 -0.1
 S.D. = 0.3 on 9 of 9 obs.

OCT 23, 1990 19h 08m 25.58 ± 0.37s

19.160 S ± 5.1km 177.564 W ± 5.0km
 DEPTH = 624.1 ± 5.6 km
 4.9mb (19 obs.)
 FIJI ISLANDS REGION (181)

SVA 3.91 285 iP 09 51.70 -0.9
 VUN 3.94 286 eS 10 47.10
 SGE 4.56 289 ePd 09 51.50 -1.3
 NDF 4.93 286 eP 09 56.20 -1.0
 BKM 13.55 274 iPc 10 02.50 2.7
 DZM 15.25 256 iPc 11 19.80 0.5
 PUZ 19.19 190 eP 11 37.90 2.1
 NOZ 19.76 190 eP 12 14.10 1.6
 PGZ 22.03 193 eP 12 17.50 -0.1
 MNG 22.20 194 eP 12 37.60 -0.5
 KIW 22.57 195 eP 12 38.50 -1.3
 CAW 22.77 195 P 12 42.60 -0.4
 WDW 22.94 195 eP 12 44.30 -0.5
 MRW 22.97 195 eP 12 45.00 -1.3
 TCW 23.06 196 P 12 46.60 -0.0
 THZ 23.95 198 P 12 47.00 -0.4
 KHZ 24.38 196 P 12 56.10 0.8
 LTZ 25.07 198 P 12 58.70 -0.3
 MQZ 25.82 196 eP 13 04.40 -0.7
 AFR 26.41 91 iP 13 11.30 -0.3
 PAE 26.58 91 iP 13 17.40 0.4
 PPT 26.60 91 iP 13 55.00nm 5.2mb
 PPN 26.74 91 iP 13 11.87 -6.6X
 TVO 26.88 92 iP 13 40.00nm 5.1mb
 MMCZ 28.05 200 P 13 08.00nm 5.3mb
 MHZ 28.05 200 eP 13 20.00 0.2
 PMO 28.64 86 iP 13 21.40 0.3
 VAH 28.84 87 iP 13 30.70 -0.4
 TPT 28.86 86 iP 13 36.50 0.3
 RUV 29.08 87 iP 13 38.00 0.1
 CAN 33.61 234 eP 13 38.00 0.3
 BWA 33.77 236 eP 13 40.20 0.2
 CMS 35.13 242 iPc 14 08.20 0.2
 TOO 37.03 232 iPd 14 19.00 1.0
 STK 38.76 243 eP 14 18.70 -0.7
 WB5 45.19 261 eP 14 31.60 1.1
 ASPA 45.24 255 iPd 14 47.80 4.8mb
 WARB 51.63 251 eP 15 01.20 1.1
 MBL 58.46 256 eP 15 49.50 -1.3
 NANU 62.15 254 eP 15 50.30 -0.9
 SPA 70.96 180 iPd 16 37.60 -1.7
 SYP 76.45 46 eP 17 24.20 -4.2mb
 PRS 76.57 44 ePd 19 15.00 0.7
 SAO 76.78 43 e(P) 19 14.50 -0.3
 PRI 76.92 44 eP 19 15.90 0.0
 PAS 77.47 47 eP 19 17.00 0.2
 MWC 77.59 47 eP 19 19.00 -0.7
 RVR 77.94 47 eP 19 20.00 -0.6
 PLM 77.96 48 eP 19 23.00 0.8
 SBB 78.01 47 eP 19 23.00 0.5
 FRI 78.04 44 ePd 19 23.00 0.5
 ISA 78.11 46 eP 19 22.00 -0.6
 CMB 78.20 43 ePd 19 23.00 -0.1
 WDC 78.39 40 ePd 19 23.00 -0.5
 ORV 78.40 41 eP 19 23.90 -0.4
 CLC 78.79 46 eP 19 23.00 -0.6
 MIN 78.81 40 eP 19 26.00 -0.5
 TPC 78.93 48 eP 19 26.30 -0.5
 GSC 79.05 47 eP 19 28.00 0.6
 PNT 85.32 34 eP 19 28.00 0.0
 ALO 86.25 51 eP 19 59.00 0.0
 0.8s 13.00nm 4.6mb

MCMT 86.67 40 P 20 03.00 4.4mb
 BUL 133.27 215 ePKP 20 06.10 0.2
 NB2 137.70 354 PKP 26 30.60 -3.7X
 HFS 138.28 352 ePKP 26 41.40 0.1
 EKA 143.64 5 PKPc 26 31.00 -11.3X
 LWI 146.48 233 iPKPd 26 49.10 -2.7X
 KSP 146.53 344 iPKPd 27 01.30 3.2X
 CLL 146.85 348 iPKPd 26 58.40 1.6
 ADI 147.61 302 eSg 29 31.30
 PRU 147.76 345 ePKP 27 02.00 2.9X
 JVI 147.83 300 iPKPd 27 01.70 3.0X
 SRO 148.63 339 ePKP 30 09.50
 ZST 148.69 341 ePKP 30 38.50
 MBH 148.73 296 ePKP 30 54.00
 KHC 148.78 346 ePKP 27 03.00 3.6X
 FLN 150.36 4 ePKP 27 04.20 4.1X
 CDF 150.56 353 ePKP 27 04.10 3.9X
 LDF 150.57 3 ePKP 30 41.40
 GRR 150.72 4 ePKP 31 06.80
 HAU 151.05 355 ePKP 27 05.00 4.2X
 LPF 151.06 5 ePKP 27 04.20 3.8X
 SOTA 151.11 348 iPKPd 27 07.50 4.8X
 BSF 151.18 354 ePKP 27 08.40 5.2X
 LOR 151.94 358 ePKP 27 08.10 5.0X
 SSF 152.16 358 ePKP 27 08.70 5.4X
 LBF 152.22 358 ePKP 27 09.40 5.6X
 MFF 152.55 4 ePKP 27 09.40 5.6X
 BGR 152.67 359 ePKP 27 09.70 5.6X
 TCF 152.95 0 ePKP 27 09.90
 LSF 152.97 1 ePKP 27 18.60
 MAF 153.01 360 ePKP 27 09.70 5.5X
 BCAD 158.53 229 iPKPc 27 11.30 6.2X
 LIC 165.23 150 PKP 27 12.00 6.6X
 KIC 165.49 150 PKP 27 12.10 6.5X
 TIC 165.60 149 PKP 27 12.50 6.5X
 LKO 167.68 140 PKP 27 13.00 6.8X
 S.D. = 0.9 on 69 of 97 obs.

? OCT 23, 1990 20h 01m 57.47 ± 4.10s
 0.030 N ± 17.8km 79.669 W ± 29.0km
 DEPTH = 10.0km (geophysicist)
 NEAR COAST OF ECUADOR (105)

GGP 1.09 101 iP+ 02 18.20 -0.2
 OUR 1.16 100 iPd 02 19.30 -0.1
 OTO 1.16 101 eP 02 42.00
 COTA 1.37 77 P 02 19.60 0.1
 VC1 1.43 118 P 02 36.80
 CAYA 1.69 88 eP 02 22.80 -0.2
 TUNG 1.89 140 P 02 24.30 0.3
 S.D. = 0.3 on 7 of 7 obs.

OCT 23, 1990 20h 14m 56.89 ± 1.22s

23d 20h

30.833 S \pm 8.7km 178.065 W \pm 8.1km
 DEPTH = 16.4 \pm 8.4 km
 5.4mb (7 obs.) 4.0msz (1 obs.)
 KERMADEC ISLANDS (178)

RAO	1.58	5 P	15 24.00	-0.3
		S	15 38.50	
PUZ	7.83	202 eP	16 51.40	-1.5
		S	18 19.10	
NGZ	9.81	210 eP	17 21.00	0.6
CNZ	9.85	210 eP	17 21.10	0.2
MNG	11.08	206 eP	17 31.70	-5.9X
		eS	19 32.90	
DZM	16.37	299 iPd	18 51.90	4.3X
BRS	25.67	270 iPc	20 30.50	2.8
COO	25.80	263 iPd	20 33.30	4.4X
CAN	27.88	252 eP	20 50.00	2.1
BWA	28.38	254 eP	20 52.20	-0.2
RMQ	29.37	270 iPd	21 01.50	0.1
TOO	30.74	247 eP	21 15.00	1.5
CMS	30.82	259 iPd	21 15.90	1.7
CTA	33.81	280 iPc	21 40.90	0.5
	0.9s	82.35nm		5.7mb
STK	34.33	258 iPc	21 45.00	0.2
	0.8s	75.00nm		5.7mb
QIS	39.29	275 iPc	22 26.30	-0.5
	0.3s	7.00nm		4.8mb
ASPA	43.03	267 iPd	22 56.80	-0.8
	0.4s	20.40nm		5.2mb
	2.1s	0.20um		4.0msz
WB5	44.06	273 eP	23 04.60	-1.3
		e	25 40.90	
FORR	45.83	255 iPc	23 19.00	-0.9
	0.5s	83.00nm		5.9mb
WARD	48.40	261 eP	23 38.50	-1.7
MBL	56.03	264 eP	24 35.00	-2.4
NANU	59.15	261 eP	24 56.50	-2.8
SPA	59.34	180 iPc	25 01.40	1.1
	0.9s	22.27nm		5.3mb
PRS	85.38	43 ePc	27 34.70	0.2
MHC	85.92	42 ePc	27 37.60	0.3
PLM	86.12	47 eP	27 39.00	0.5
SBB	86.39	46 eP	27 39.00	-0.7
ISA	86.64	45 eP	27 41.00	0.1
FR1	86.80	43 eP	27 41.50	0.0
		e	27 57.90	
TPC	87.12	47 eP	27 44.00	0.8
CMB	87.12	42 ePc	27 42.70	-0.4
CLC	87.28	45 eP	27 44.00	0.1
GSC	87.43	46 eP	27 45.00	0.3
WDC	87.69	39 ePc	27 45.50	-0.2
		e	28 01.10	
MIN	88.03	40 e(P)	27 46.70	-0.8
TNP	89.00	44 iP	27 52.20	-0.1
	1.0s	10.00nm		5.1mb
		i	28 09.00	
SOB1	122.80	127 ePKP	33 53.00	-1.2
		e	34 09.70	
SOD	140.60	345 ePKP	34 19.00	-7.4X
SUF	144.50	341 iPKP	34 31.60	-1.6
	0.5s	33.30nm		
NUR	146.70	340 iPKP	34 36.60	-0.4
	0.8s	48.40nm		
UPP	149.12	345 iPKP	34 42.00	1.2
NB2	149.17	351 PKP	34 43.10	2.1
	0.8s	19.40nm		
BCAO	149.43	214 iPKPc	34 46.50	3.7X
	0.5s	51.00nm		
HFS	149.66	348 ePKP	34 42.50	0.8
	0.9s	25.00nm		
DSI	151.44	280 ePKP	34 50.00	4.8X
MBH	151.59	276 iPKPc	34 50.70	5.2X
RMN	151.93	278 ePKP	34 51.00	-25.1X
LIC	154.66	164 PKP	34 50.20	0.0
KIC	154.86	164 PKP	34 50.60	0.1
TIC	155.07	163 PKP	34 50.90	0.1
	S.D. = 1.2	on 42 of 50 obs.		

& OCT 23, 1990 22h 18m 50.68s
 60.236 N 153.056 W

DEPTH = 132.7km
 SOUTHERN ALASKA (2)
 <AGS-P>.

RED	0.23	37 iP	19 08.43	0.8
RSO	0.27	33 iP	19 08.73	0.8
RDT	0.47	43 iP	19 09.44	-0.8

OPT	0.59	189 iP	19 24.42	eS
		eS	19 10.19	-0.7
PDB	0.73	232 iP	19 24.71	eS
		eS	19 10.51	-1.3
AUE	0.89	190 iP	19 26.35	eS
AUH	0.90	193 iP	19 12.15	-1.0
NNL	0.90	102 eP	19 12.37	-0.9
HOM	0.92	129 eP	19 13.27	0.0
		eP	19 13.14	-0.2
		eS	19 30.21	
AUI	0.92	192 iP	19 12.35	-1.0
CKL	1.03	20 iP	19 13.78	-0.7
NKA	1.03	60 iP	19 15.18	0.8
XLV	1.03	139 eP	19 14.86	-0.7
		eS	19 13.50	-0.9
SPU	1.07	27 iP	19 32.14	
		eS	19 13.93	-0.9
BGL	1.08	17 iP	19 32.45	
CRP	1.13	23 iP	19 14.54	-0.5
CNPM	1.16	127 iP	19 14.86	-0.7
CGLM	1.19	25 iP	19 15.20	-0.5
		eP	19 15.24	-0.9
MCNL	1.24	212 iP	19 14.89	-1.6
NCG	1.25	20 iP	19 14.89	-1.6
CDD	1.34	193 iP	19 16.07	-0.7
SLKM	1.43	78 iP	19 16.07	-1.6
SVW	1.54	306 iPd	19 17.23	-1.4
SUA	1.67	42 iP	19 17.70	-2.1
		eS	19 20.45	-1.0
SEW	1.81	93 eP	19 20.45	-1.0
SKT	1.90	22 iP	19 44.34	
		eS	19 21.47	-1.4
PMS	1.99	58 iP	19 22.83	-1.2
PWA	2.10	46 eP	19 50.43	
		eS	19 23.42	-1.8
PLRM	2.35	53 eP	19 24.67	-1.8
		iPc	19 54.78	
PMR	2.35	53 iPc	19 27.10	-2.5
KDC	2.51	173 iPd	19 26.90	-2.7
GHO	2.53	51 iP	19 28.60	-3.0
CUT	2.56	30 eP	19 29.52	-2.5
KNIM	2.65	85 eP	19 30.62	-1.6
MTU	2.72	93 eP	19 30.48	-3.0
SML	2.79	54 eP	19 32.63	-1.7
GLI	3.01	75 eP	19 32.62	-2.7
TTA	3.05	334 iPd	19 34.80	-3.4
HUR	3.20	29 eP	19 36.20	-2.5
SCM	3.21	58 iP	19 38.84	-1.8
HIN	3.26	84 eP	19 38.29	-2.6
VZW	3.31	73 eP	19 38.62	-2.9
		eS	19 38.94	-3.1
VLZ	3.43	72 eP	20 18.16	
		eS	19 40.76	-2.8
MID	3.49	101 eP	20 20.91	
CVA	3.64	82 eP	19 44.64	0.3
KLU	3.71	67 iP	19 44.68	-1.7
		eS	19 44.57	-2.9
		eS	20 28.06	
RND	3.75	30 eP	19 46.00	-2.1
TOA	3.82	58 iPc	19 46.00	-2.2
SGAM	3.91	83 iP	19 46.00	-2.2
MCK	4.01	27 eP	19 48.17	-1.9
RAGM	4.17	84 eP	19 49.84	-1.6
SDG	4.28	54 eP	19 51.67	-2.0
KAIM	4.34	90 eP	19 53.01	-2.1
GLB	4.68	71 eP	19 54.76	-1.1
NEA	4.73	21 eP	19 57.06	-2.7
WRH	4.84	26 eP	19 58.31	-2.8
DDM	4.92	40 eP	19 59.91	-2.6
CCB	5.05	27 eP	20 02.83	-0.8
HDA	5.06	32 eP	20 02.58	-2.8
WAX	5.07	83 eP	20 03.00	-2.5
TGL	5.08	80 eP	20 03.71	-2.1
FBA	5.27	25 iPc	20 04.12	-1.8
BALM	5.33	77 eP	20 05.60	-2.8
GLM	5.44	26 eP	20 06.69	-2.7
DOT	5.45	47 eP	20 07.82	-2.9
YAH	5.63	84 eP	20 08.02	-2.8
IMA	5.86	350 iPc	20 12.07	-1.4
SDN	6.32	222 iPc	20 14.10	-2.5
ANM	7.18	312 eP	20 18.30	-4.3
HYT	7.69	79 P	20 31.20	-3.1
			20 40.00	-1.4
	70 obs. associated			

? OCT 24, 1990 00h 12m 06.93 \pm 1.37s
 40.529 N \pm 12.7km 15.649 E \pm 10.1km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN ITALY (390)

SGO	0.26	276 P	12 12.70	0.3
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MGR	0.40	191 P	12 17.30	eSg
		P	12 15.00	-0.1
BSS	0.69	292 P	12 23.50	eSg
		P	12 20.40	-0.2
ORI	0.77	127 P	12 30.80	eSg
		P	12 22.00	0.1
		eSg	12 33.40	
	S.D. = 0.4	on 4 of 4 obs.		

? OCT 24, 1990 01h 09m 07.15 \pm 4.28s
 18.638 N \pm 26.6km 67.050 W \pm 17.7km
 DEPTH = 10.0km (geophysicist)
 MONA PASSAGE (89)

MCP	0.23	195 P	09 12.00	0.0
LRS	0.39	150 P	09 15.30	0.1
PORP	0.70	146 P	09 21.00	0.0
SJG	1.00	121 i(P)	09 26.00	-0.2
LPR	1.17	106 P	09 29.10	0.1
	S.D. = 0.1	on 5 of 5 obs.		

* OCT 24, 1990 02h 19m 04.29 \pm 0.77s
 38.711 N \pm 6.9km 21.917 E \pm 8.0km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 MD 3.0 (ATH).

EVR	0.22	338 ePb	19 09.20	0.1
VLS	1.17	243 ePb	19 26.00	-0.2
NEO	1.18	59 ePn	19 26.10	-0.2
ATH	1.60	117 ePb	19 37.30	4.7X
VLI	2.15	158 ePn	19 40.80	0.2
OHR	2.55	341 ePn	19 49.20	2.8X
VAY	2.65	11 ePn	19 48.00	0.1
	S.D. = 0.3	on 5 of 7 obs.		

& OCT 24, 1990 02h 20m 41.94s
 47.531 N 120.189 W
 DEPTH = 11.9km
 WASHINGTON (29)
 <SEA>. CL 2.8 (SEA).

ETW	0.12	307 Pc	20 44.98	-0.3
WTV	0.23	43 Pc	20 46.93	-0.2
		S	20 50.48	
CBSW	0.29	20 Pc	20 47.74	-0.5
EPH	0.44	114 Pd	20 50.31	-0.7
		S	20 56.28	
TBM	0.46	218 P	20 50.73	-0.6
DHW2	0.54	32 P	20 52.02	-0.8
NLW	0.56	350 Pd	20 52.22	-1.0
		S	20 59.59	
SAW	0.56	72 Pd	20 52.45	-0.8
		S	20 59.99	
VTG	0.59	166 Pd	20 52.85	-0.8
		S	21 00.83	
TWW	0.61	230 P	20 53.82	-0.2
EBG	0.67	203 P	20 54.84	-0.3
BVW	0.75	164 Pd	20 55.82	-0.7
RC1	0.78	139 P	20 56.22	-0.8
WAH2	0.88	151 P	20 58.37	-0.4

SPW 1.39 272 P 21 08.05 0.9
 CMW 1.57 305 P 21 10.50 0.7
 GL2 1.63 196 P 21 10.08 -0.6
 ASR 1.68 215 P 21 11.71 0.3
 MBW 1.70 318 P 21 12.09 0.4
 KOSW 1.74 233 P 21 12.96 0.8
 GMW 1.76 272 P 21 13.26 0.8
 HDW 1.94 275 P 21 15.73 0.6

48 obs. associated

% OCT 24, 1990 02h 38m 17.12±0.83s
 45.885 N ± 5.3km 0.448 E ± 7.0km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.5 (LDG).

MFF 0.83 330 Pg 38 33.00 -0.1
 Sg 38 44.20
 LSF 0.84 64 Pg 38 33.60 0.3
 Sg 38 44.30
 RJF 0.95 127 Pg 38 34.20 -1.0
 Sg 38 46.40
 LFF 0.97 168 Pg 38 36.00 0.5
 Sg 38 47.60
 TCF 1.29 71 Pg 38 42.00 0.9
 Sg 38 58.80
 LPO 1.31 156 Pg 38 41.40 0.1
 Sg 38 58.20
 CAF 1.49 130 Pg 38 44.20 0.3
 Sg 39 04.00
 MAF 1.51 76 Pg 38 46.10 1.8X
 Sg 39 04.50
 BGF 1.80 67 Pg 38 50.70 2.3X
 Sg 39 14.30
 AVF 2.21 65 Pn 38 54.00 -0.3
 Pg 38 59.60
 Sg 39 26.00
 LPF 2.38 335 Pg 39 01.00 4.3X
 Sg 39 31.80
 SSF 2.42 60 Pg 39 01.70 4.4X
 Sg 39 32.60
 SMF 2.47 71 Pn 38 57.50 -0.6
 Pg 39 03.20
 Sg 39 34.40
 LBF 2.68 64 Pg 39 06.20 5.1X
 Sg 39 41.40
 LOR 2.73 58 Pg 39 07.50 5.7X
 Sg 39 42.80

S.D. = 0.7 on 9 of 15 obs.

* OCT 24, 1990 03h 28m 05.75±3.19s
 46.306 N ± 27.4km 15.573 E ± 13.2km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)
 MD 2.3 (LJU), 2.2 (TRI).

PTJ 0.49 146 iPg 28 15.90 0.3
 iSg 28 21.30
 ZAG 0.57 150 e(Pg) 28 17.00 -0.2
 iSg 28 24.00
 LJU 0.77 250 iPg 28 21.00 0.2
 eSg 28 30.50
 VBY 0.83 196 e(Pg) 28 21.80 0.0
 eSg 28 34.30
 CEY 0.98 235 eP 28 28.20 3.8X
 eSg 28 37.60
 VOY 1.20 257 iPnd 28 28.40 0.2
 eSn 28 45.80
 TRI 1.39 245 ePg 28 30.70 -0.5
 iSg 28 49.40

S.D. = 0.4 on 6 of 7 obs.

OCT 24, 1990 03h 51m 25.78±1.14s
 45.835 N ± 11.0km 12.220 E ± 6.0km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.9 (VIE).

VVI 0.21 44 P 51 28.60 -1.7
 eSg 51 31.40
 CTI 0.45 298 P 51 32.60 -2.4
 eSg 51 39.90
 FVI 0.85 27 P 51 40.90 -1.3
 eSg 51 53.30
 TRI 1.09 96 ePg 51 45.80 -0.4
 iSg 52 01.00
 VOY 1.18 80 ePnc 51 47.30 -0.6

SCE 1.25 344 eSn 52 05.80
 ePg 51 49.50 0.3
 OGA 1.32 322 ePg 51 50.60 0.2
 SOTA 1.55 334 iPg 51 53.50 -0.1
 iSg 52 14.90
 WATA 1.57 344 iPg 51 55.60 1.8
 iSg 52 18.00
 LJU 1.63 82 e(Pn) 51 56.00 1.4
 eSg 52 17.00
 MDI 1.76 269 P 51 57.00 0.6
 eSn 52 20.00
 BHG 1.94 13 eP 52 00.50 1.4
 PTJ 2.61 87 eP 52 14.60 5.8X
 KHC 3.42 15 eP 52 21.00 0.7
 eSg 53 00.00

S.D. = 1.4 on 13 of 14 obs.

OCT 24, 1990 04h 07m 04.15±0.47s
 3.132 S ± 6.8km 142.196 E ± 9.0km
 DEPTH = 33.0km (normal)
 5.1mb (7 obs.)
 NEAR N COAST OF PAPUA NEW GUINEA (200)

PMG 7.95 142 eP 09 00.00 -0.3
 1.6s 146.67nm 5.8mb X
 MTN 14.59 228 eP 10 29.00 -1.2
 0.5s 122.00nm 5.6mb X
 eS 13 12.00
 CTA 17.31 167 iPg 11 17.50 12.4X
 1.0s 14.00nm
 OIS 17.50 188 eP 11 09.00 1.6
 KNA 18.22 226 eP 11 16.80 0.5
 WB5 18.32 204 eP 11 16.90 -0.6
 eS 14 43.00
 ASPA 21.93 201 eP 11 51.50 -5.3X
 0.8s 7.60nm 4.2mb
 Z 23s 0.60um 3.9mszX
 eS 15 58.00
 RMO 24.06 165 eP 12 17.00 -0.5
 WARB 27.35 212 eP 12 48.30 -0.1
 STK 28.60 181 eP 12 58.70 -0.8
 1.1s 9.00nm 4.4mb
 eS 21 59.70
 DZM 30.14 131 iPd 13 12.90 -0.7
 BWA 31.67 170 eP 13 27.90 1.1
 CAN 32.64 170 eP 13 35.60 0.3
 e 17 38.80
 SNG 42.74 284 eP 14 53.00 -7.4X
 LZH 52.95 321 eP 16 20.00 0.0
 1.5s 28.00nm 5.0mb
 Z 16s 0.24um 4.3mszX
 pP 16 23.50 12kmX
 sP 16 28.50
 GUN 62.30 304 P 17 26.02 -0.3
 1.1s 64.00nm 5.6mb
 PKI 62.58 303 P 17 27.38 -0.7
 KKN 62.76 303 P 17 28.80 -0.3
 0.9s 57.00nm 5.7mb
 DMN 62.84 303 P 17 29.52 -0.2
 GKN 63.37 303 P 17 32.58 -0.5
 0.8s 55.00nm 5.7mb
 GBA 66.34 286 P 17 53.00 0.8
 1.1s 8.80nm 4.8mb
 QUE 78.87 301 eP 19 06.90 0.5
 CNCB 144.21 125 PKP 26 38.00 -2.1
 CCH 145.40 127 PKP 26 42.90 1.2
 TIC 147.16 277 PKP 26 45.20 0.8
 LIC 147.19 277 PKP 26 46.00 1.6
 SIV 150.16 130 PKP 26 52.60 3.6X
 PPD 151.72 153 ePKP 26 57.50 6.3X

S.D. = 0.9 on 23 of 28 obs.

% OCT 24, 1990 04h 22m 38.99±0.41s
 46.946 N ± 4.6km 0.447 E ± 4.0km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 3.0 (LDG).

MFF 0.53 230 Pg 22 49.80 0.0
 Sg 22 56.60
 LSF 1.02 133 Pg 22 59.10 0.8
 Sg 23 12.60
 TCF 1.38 118 Pn 23 05.00 0.7
 Pg 23 06.10
 Sg 23 23.60
 LPF 1.48 318 Pn 23 05.60 -0.1
 Pg 23 07.60

MAF 1.63 116 Sg 23 26.60
 Pn 23 08.20 0.3
 Pg 23 10.30
 Sg 23 31.00
 GRR 1.69 329 Pn 23 08.50 -0.2
 Pg 23 11.60
 Sg 23 33.60
 LDF 1.69 347 Pg 23 12.00 3.3X
 Sg 23 33.80
 BGF 1.69 102 Pn 23 09.00 0.2
 Pg 23 11.80
 Sg 23 32.80
 RJF 1.80 155 Pn 23 09.60 -0.7
 Pg 23 12.40
 Sg 23 35.80
 FLN 1.92 341 Pn 23 12.60 0.6
 Pg 23 16.20
 Sg 23 41.00
 AVF 2.00 93 Pn 23 13.20 0.0
 Pg 23 16.40
 Sg 23 41.50
 LFF 2.02 174 Pg 23 18.20 4.8X
 Sg 23 43.60
 SSF 2.10 86 Pn 23 14.00 -0.6
 Pg 23 19.60
 Sg 23 45.20
 CAF 2.31 150 Pn 23 17.40 -0.4
 Pg 23 22.00
 Sg 23 52.00
 LPO 2.32 167 Pg 23 23.60 5.7X
 Sg 23 53.50
 SMF 2.35 96 Pg 23 23.20 4.9X
 Sg 23 52.00
 LOR 2.35 81 Pn 23 18.00 -0.3
 Pg 23 24.00
 Sg 23 52.50
 LBF 2.42 88 Pn 23 18.70 -0.5
 Pg 23 25.00
 Sg 23 54.30

S.D. = 0.5 on 14 of 18 obs.

& OCT 24, 1990 06h 04m 42.77s
 60.014 N 152.385 W
 DEPTH = 78.4km
 SOUTHERN ALASKA (2)
 <AGS-P>.

RED 0.45 335 eP 04 55.56 -0.7
 RSO 0.49 338 iP 04 56.10 -0.6
 eS 05 06.87
 HOM 0.52 133 iP 04 56.35 -0.3
 eS 05 07.07
 >NNL 0.55 87 iP 04 57.28 0.3
 OPT 0.56 230 eP 04 56.46 -0.7
 RDT 0.56 359 iP 04 56.40 -0.8
 eS 05 07.97
 XLV 0.65 149 eP 04 57.02 -1.0
 CNPM 0.76 130 iP 04 58.43 -0.8
 BRK 0.80 108 eP 04 58.90 -0.7
 AUE 0.83 218 eP 04 58.93 -1.0
 AUH 0.84 220 eP 04 59.53 -0.7
 AUI 0.86 218 eP 04 59.53 -0.8
 NKA 0.93 37 eP 05 02.32 1.3
 PDB 0.94 257 eP 05 00.26 -1.0
 eS 05 13.73
 SPU 1.18 8 iP 05 03.95 -0.4
 eS 05 20.21
 CKL 1.19 1 iP 05 04.08 -0.4
 eS 05 20.28
 SLKM 1.19 64 eP 05 03.77 -0.6
 BGL 1.25 360 iP 05 05.04 -0.3
 CRP 1.26 5 eP 05 05.22 -0.3
 CDD 1.26 211 eP 05 04.15 -1.2
 MCNL 1.29 231 eP 05 04.37 -1.4
 CGLM 1.31 8 iP 05 05.78 -0.3
 eS 05 22.25
 NCG 1.40 5 iP 05 06.92 -0.3
 SEW 1.48 85 eP 05 09.04 1.0
 SUA 1.66 28 eP 05 10.68 -0.1
 PMS 1.86 47 eP 05 13.08 -0.2
 SKT 2.02 12 iP 05 14.75 -0.7
 PWA 2.05 36 eP 05 16.29 0.5
 PLRM 2.25 44 eP 05 17.18 -1.4
 KNIM 2.35 80 eP 05 17.18 -2.8
 MTU 2.38 89 eP 05 18.95 -1.4
 GHO 2.44 42 eP 05 20.59 -0.8
 CUT 2.61 22 eP 05 23.09 -0.4

24d 06h

SML 2.68 46 eP 05 22.59 -1.9
 KLU 3.50 62 eP 05 33.47 -2.6
 RND 3.80 25 eP 05 39.72 -0.4
 36 obs. associated

& OCT 24, 1990 06h 15m 12.90s
 38.048 N 119.152 W
 DEPTH = 10.0km
 CALIFORNIA-NEVADA BORDER REGION (40)
 <BRK>. ML 2.2 (BRK). Foreshock.

CMB 0.97 270 iPc 15 30.50 -0.9
 FRI 1.14 203 iPd 15 33.70 -0.6
 TNP 1.53 88 eP 15 40.40 0.0
 ARN 2.01 250 eP 15 47.80 0.5
 LLA 2.02 226 eP 15 48.50 1.1
 MHC 2.10 251 eP 15 49.90 1.3
 SAO 2.23 236 ePd 15 51.40 0.9
 ORV 2.37 310 e(P) 15 52.50 0.0
 PLM 5.04 158 eP 16 34.00 3.5
 9 obs. associated

& OCT 24, 1990 06h 15m 20.70s
 38.047 N 119.157 W
 DEPTH = 12.0km
 5.4mb (48 obs.) 5.2Msz (6 obs.)
 CALIFORNIA-NEVADA BORDER REGION (40)
 <BRK>. ML 5.7 (BRK). 5.6 (PAS).

Mo=2.0*10**17 Nm (BRK). Felt (V)
 at Avery, Bear Valley, Big
 Creek, Bridgeport, El Portal,
 June Lake, Kirkwood, Lee Vining,
 Mammoth Lakes, Mono City,
 Murphys, North Fork, Pioneer,
 Pinecrest, Tuolumne, Twin
 Bridges and Wilseyville,
 California. Rockslides blocked
 roads in parts of Yosemite
 National Park. Felt throughout
 much of northern and central
 California and in western
 Nevada.

CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 25C
 Centroid Location:

Origin Time 06:15:27.3 0.6
 Lat 38.17N 0.06 Lon 119.32W 0.08
 Dep 15.0 FIX Half-duration 1.8

Moment Tensor: Scale 10**17 Nm
 Mrr=-0.27 0.04 Mtt=-0.77 0.06
 Mff= 1.04 0.05 Mrt=-0.29 0.14
 Mrf= 0.46 0.18 Mtf= 0.41 0.04

Principal Axes:
 T Val= 1.23 Plg=15 Azm=279
 N -0.17 58 164
 P -1.06 28 18

Best Double Couple: Mo=1.1*10**17
 NP1: Strike= 56 Dip=59 Slip=-10
 NP2: 151 82 -149

MNA 0.88 64 iPc 15 36.50 -1.0
 CMB 0.97 270 iPc 15 38.20 -0.8
 FRI 1.14 203 iPd 15 41.30 -0.6
 ARN 2.01 250 iPd 15 55.50 0.7
 LLA 2.02 225 iPc 15 55.50 0.6
 MHC 2.09 251 iPc 15 57.00 0.9
 PKEM 2.12 201 eP 15 57.50 1.1
 SAO 2.23 236 iPc 15 58.70 0.7
 PRI 2.25 213 iP 15 59.60 1.2
 ORV 2.37 310 iP 15 59.90 -0.1
 PHAM 2.42 205 eP 16 00.70 0.0
 BKS 2.44 267 iPc 16 01.65 0.7
 ZSP 2.45 269 iPc 16 01.80 0.7
 BRK 2.46 267 iPc 16 01.70 0.5
 PRS 2.46 227 iPc 16 01.80 0.5
 GCC 2.47 247 iPc 16 01.70 0.3
 CLC 2.55 150 eP 16 02.20 -0.4
 PCC 2.61 259 iP 16 03.60 0.2
 BCH 2.95 195 eP 16 08.20 -0.1
 MIN 2.98 321 iP 16 09.30 0.5
 ABL 3.19 181 eP 16 11.00 -0.8
 GSC 3.33 145 iPc 16 12.90 -0.8
 BLP 3.62 196 eP 16 18.00 0.3

WDC 3.64 315 iPc 16 17.50 -0.6
 LBFM 3.91 328 eP 16 22.50 0.4
 LRM 9.23 31 iPd 17 37.00 0.2
 NEW 10.32 8 P 17 51.60 0.1
 ALO 10.68 103 ePc 17 57.20 0.5
 PNT 11.27 358 P 18 06.00 1.5
 SES 13.64 23 P 18 35.00 -1.2
 MEO 16.87 95 iPc 19 18.50 0.3
 SIO 18.41 90 eP 19 37.20 -0.2
 TUL 18.78 89 ePd- 19 41.50 -0.4

1.2s 37.30nm 4.5mb
 Z 19s 3.92um 4.7Msz
 19 46.50
 eS 23 20.00
 LR 24 14.00

FFC 20.37 29 iPd 19 55.90 -3.7
 0.8s 36.00nm 4.8mb
 SIT 21.82 336 P 20 14.00 -0.4
 1.0s 45.00nm 4.8mb
 OLY 22.29 88 P 20 19.00 -0.3
 MRX 24.04 134 (P) 20 39.00 2.6
 YKA 24.63 5 eP 20 41.70 -0.2

1.2s 39.50nm 4.9mb
 IJJ 24.85 132 (P) 20 55.00 10.1
 PPM 26.03 131 (P) 20 57.00 1.0
 OXX 28.70 131 (P) 21 22.00 2.0
 PMR 29.99 331 iPd 21 31.00 0.1
 1.2s 55.60nm 5.3mb
 BLA 30.54 79 eP 21 42.50 6.4

Z 20s 4.18um 5.1Msz
 INK 31.34 350 ePd 21 41.30 -1.4
 FBA 31.72 337 iPd 21 45.10 -1.0
 1.5s 65.60nm 5.3mb

SVW 32.34 327 iPd 21 51.30 -0.4
 1.2s 18.10nm 4.9mb
 TTA 33.41 330 iPd 22 00.50 -0.5

1.0s 14.70nm 4.9mb
 IMA 34.34 336 iPd 22 08.80 -0.3
 1.1s 26.60nm 5.1mb

PNJ 34.57 71 iP 22 05.60 -5.5
 HBVT 34.88 65 P 22 11.00 -2.8
 MBC 38.29 360 ePd 22 41.90 -0.2

1.0s 33.00nm 5.0mb
 SCH 38.79 47 eP 22 44.00 -2.6
 NNA 63.60 133 iP 25 56.50 2.7

1.0s 18.00nm 5.2mb
 ARE 70.29 131 eP 26 37.00 0.6
 ZO80 72.18 128 P 26 47.00 -1.1

1.0s 27.50nm 5.3mb
 Z 24s 0.43um 4.6MszX
 S 36 28.00
 LR 52 04.00

EKA 72.19 33 Pc 26 45.20 -1.8
 1.2s 20.60nm 5.1mb
 LPB 72.40 128 P 26 52.00 2.8

CNCB 72.68 129 eP 26 50.00 -1.1
 NB2 73.31 23 P 26 52.20 -1.3
 1.1s 27.20nm 5.2mb

CCH 74.26 128 P 27 03.30 3.4
 HFS 74.78 22 eP 27 00.30 -1.7
 1.0s 43.00nm 5.4mb

Z 17s 0.73um 5.0MszX
 LR 00 40.00
 MAT 77.01 306 eP 27 16.00 0.9

0.8s 7.46nm 4.8mb
 FLN 77.91 36 iPd 27 19.10 -0.7
 1.2s 65.45nm 5.6mb

Z 20s 1.08um 5.2Msz
 GRR 77.99 37 iPd 27 19.70 -0.5
 1.2s 68.45nm 5.6mb

WIT 78.04 30 eP 27 21.50 1.2
 LPF 78.16 37 iPd 27 20.60 -0.5
 1.2s 77.35nm 5.7mb

LDF 78.20 36 iPd 27 20.70 -0.6
 1.2s 65.45nm 5.6mb
 UCC 78.60 33 P+ 27 24.00 0.5

WTS 78.72 31 eP 27 24.00 -0.1
 1.2s 57.00nm 5.5mb
 DOU 79.22 33 P 27 26.50 -0.4

ENN 79.28 32 eP 27 27.50 0.3
 1.1s 60.00nm 5.5mb
 MEM 79.44 32 Pc 27 28.20 0.2

MFF 79.60 38 iPd 27 28.50 -0.6
 1.2s 65.45nm 5.5mb
 LSF 80.66 37 iPd 27 34.20 -0.5

1.2s 31.25nm 5.2mb
 TCF 80.96 37 iPd 27 35.60 -0.7

1.2s 47.60nm 5.4mb
 SSF 80.99 36 iPd 27 35.80 -0.7
 1.2s 63.95nm 5.5mb
 LOR 81.00 35 iPd 27 36.10 -0.4

1.2s 86.30nm 5.7mb
 Z 20s 0.80um 5.1Msz
 BGF 81.06 36 iPd 27 36.20 -0.6

1.0s 58.00nm 5.6mb
 AVF 81.12 36 iPd 27 36.50 -0.6
 1.2s 53.55nm 5.5mb

MAF 81.17 37 iPd 27 36.90 -0.5
 1.4s 80.60nm 5.6mb
 LFF 81.23 39 iPd 27 37.30 -0.4

1.4s 148.10nm 5.8mb
 VITF 81.24 34 P 27 36.47 -1.2
 LBF 81.27 35 iPd 27 37.40 -0.5

1.4s 61.00nm 5.5mb
 RJF 81.34 38 iPd 27 37.50 -0.8
 1.4s 74.05nm 5.5mb

Z 20s 1.00um 5.2Msz
 GWF 81.36 32 P 27 37.42 -1.0
 SMF 81.45 36 iPd 27 38.20 -0.7

1.3s 54.15nm 5.4mb
 HAU 81.56 34 iPd 27 39.30 -0.1
 1.0s 28.00nm 5.3mb

Z 20s 1.27um 5.3Msz
 LPO 81.63 38 iPd 27 39.50 -0.3
 1.2s 44.65nm 5.4mb

CDP 81.65 33 P 27 38.89 -1.1
 CLL 81.65 28 iPd 27 39.30 -0.5
 1.4s 38.00nm 5.3mb

MDX 81.66 29 iP 27 40.00 0.1
 N 19s 1.10um
 E 19s 1.10um

WLS 81.68 33 P 27 39.15 -0.9
 ECH 81.75 33 P 27 39.26 -1.1
 CAF 81.88 38 iPd 27 40.70 -0.5

1.2s 52.05nm 5.5mb
 BSF 81.88 33 P 27 40.01 -1.2
 MOF 82.02 33 P 27 40.94 -1.0

LOMF 82.27 34 P 27 42.25 -0.9
 GRF 82.27 30 iPd 27 43.60 0.5
 1.8s 87.00nm 5.6mb

Z 20s 1.00um 5.2Msz
 TOL 82.29 45 iPc 27 44.00 0.6
 1.1s 101.27nm 5.8mb

BRG 82.36 28 iP 27 43.60 0.1
 1.0s 30.00nm 5.4mb
 I 27 48.00

FEL 82.38 33 eP 27 39.39 -4.4
 FEL 82.38 33 P 27 42.80 -1.0
 EPF 82.40 40 iPd 27 42.70 -1.2

1.2s 17.85nm 5.1mb
 BBS 82.48 33 P 27 43.57 -0.7
 SLE 82.67 33 ePc 27 45.50 0.3

KSP 83.23 27 eP 27 47.50 -0.5
 EMS 83.29 35 ePc 27 49.10 0.4
 PRU 83.30 28 Pc 27 48.50 0.1

1.2s 16.50nm 5.1mb
 Z 16s 0.90um 5.2MszX
 N 20s 0.90um

E 20s 1.00um
 e 27 54.50
 WET 83.36 29 iPc 27 48.80 0.1

DIX 83.50 34 ePd 27 51.20 1.4
 LLS 83.58 33 ePd 27 51.50 1.4
 LPL 83.63 35 iPd 27 50.90 0.5

1.4s 26.15nm 5.3mb
 KHC 83.64 29 eP 27 50.20 0.0
 N 22s 0.90um

E 22s 1.10um
 LPG 83.65 35 iPd 27 51.00 0.3
 1.4s 45.75nm 5.5mb

MMK 83.77 34 ePc 27 52.50 1.3
 BNI 83.96 35 P 27 50.00 -2.0
 VDL 84.08 33 ePc 27 54.00 1.3

TMA 84.12 33 ePc 27 53.40 0.5
 OSS 84.21 32 ePc 27 54.30 1.0
 SOTA 84.23 31 eP 27 53.00 -0.3

1.6s 72.70nm 5.7mb
 ic 27 54.50
 I 28 16.40

MAL 84.27 47 iPc 27 54.50 1.0
 OGA 84.44 32 eP 27 55.30 0.8
 BHG 84.51 30 eP 27 55.20 0.6

1.7s 100.00nm 5.8mb
 KRA 85.15 25 eP 27 58.10 0.4

SAL	85.23	33 P	28 03.00	4.9
FVI	85.38	31 P	27 58.50	-0.4
ZST	85.73	28 eP	28 00.60	0.0
SPC	85.99	25 eP	28 02.20	0.0
SRO	86.49	27 iP	28 05.10	0.7
SOB1	86.50	104 eP	28 09.40	4.5
		e	28 28.70	
PPD	87.28	121 eP	28 12.50	3.9
SKO	92.64	28 eP	28 19.00	-14.5
VAY	93.62	28 eP	28 38.00	0.0
WB5	114.72	263 ePKP	34 05.90	2.9
ASPA	117.12	260 ePKP	34 10.60	3.0
	1.2s	5.70nm		
BCAO	122.35	53 iPKPc	34 21.80	4.1
	0.6s	6.00nm		
BUL	146.89	67 ePKP	35 00.40	-2.7
PRY	149.90	78 ePKP	35 15.00	7.4
SLR	149.91	75 iPKPd	35 11.30	3.6
	0.9s	37.82nm		
BPI	149.94	76 ePKP	35 10.80	3.0
	140 obs.	associated		

& OCT 24, 1990 06h 19m 07.00s
38.048 N 119.088 W
DEPTH = 21.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 3.3 (BRK).

CMB	1.02	270 iP	19 25.40	-0.6
FRI	1.16	205 iPd	19 27.90	-0.2
LLA	2.06	227 i(P)	19 43.60	2.7
MHC	2.14	252 iP	19 44.90	2.6
		iS	20 06.20	
SAO	2.27	236 iPc	19 45.90	1.9
ZSP	2.51	269 ePc	19 52.20	4.9
		eS	20 26.30	
	6 obs.	associated		

& OCT 24, 1990 06h 27m 13.00s
38.055 N 119.147 W
DEPTH = 8.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 2.9 (BRK).

CMB	0.98	269 iPc	27 30.70	-1.1
		iS	27 43.80	
FRI	1.15	203 iPc	27 33.80	-0.9
		iS	27 48.60	
LLA	2.03	225 ePd	27 48.60	0.7
MHC	2.10	251 eP	27 49.80	0.7
SAO	2.24	236 iP	27 51.50	0.6
PRI	2.26	213 eP	27 52.70	1.3
ORV	2.37	310 eP	27 53.80	1.0
		eS	28 24.40	
MIN	2.98	321 eP	28 06.80	5.2
	8 obs.	associated		

& OCT 24, 1990 06h 32m 24.20s
38.063 N 119.158 W
DEPTH = 5.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 2.5 (BRK).

CMB	0.97	269 ePc	32 41.80	-1.3
		iS	32 54.90	
FRI	1.16	202 eP	32 45.30	-1.0
		iS	33 00.50	
LLA	2.03	225 eP	33 00.30	0.9
		eS	33 27.20	
SAO	2.23	235 iP	33 03.00	0.6
PRI	2.26	213 eP	32 56.60	-6.4
ORV	2.36	310 eP	33 04.80	0.6
	6 obs.	associated		

& OCT 24, 1990 06h 55m 36.66±1.38s
3.165 S ±11.2km 142.076 E ±10.6km
DEPTH = 39.5 ±13.2 km
5.2mb (4 obs.) 4.1Msz (2 obs.)
NEAR N COAST OF PAPUA NEW GUINEA(200)

JAY	1.51	295 ePc	56 02.20	0.5
MNDI	3.36	152 eP	56 29.00	0.7
PMG	8.00	141 eP	57 30.00	-3.3X
RAB	10.12	96 eP	58 02.00	-0.7
OIS	17.45	188 eP	59 31.50	-7.4X
	0.8s	3.00nm		3.5mb X

WB5	18.24	204 eP	59 48.00	-0.6
		eS	03 25.10	
ASPA	21.86	200 eP	00 26.80	-1.1
	1.0s	5.10nm		3.9mb
Z	19s	0.60um		4.0Msz
		eS	04 29.30	
WARB	27.26	211 eP	01 20.00	0.6
SNG	42.63	284 eP	03 21.80	-9.5X
LZH	52.90	321 eP	04 50.00	-1.4
	Z 20s	0.24um		4.2Msz
GUN	62.22	304 P	05 57.46	0.0
PKI	62.50	303 P	06 00.00	0.7
KKN	62.68	303 P	06 00.24	-0.1
	0.9s	23.00nm		5.3mb
DMN	62.76	303 P	06 00.98	0.0
	0.9s	16.00nm		5.2mb
GKN	63.28	303 P	06 04.24	-0.1
	0.9s	21.00nm		5.3mb
CNCB	144.29	125 PKP	15 10.00	-1.9
LPB	144.34	124 ePKP	15 14.00	2.2
ZOBO	144.45	124 PKP	15 11.00	-1.2
CCH	145.47	127 ePKP	15 16.00	2.4
SIV	150.23	130 PKP	15 25.40	4.6X
PPD	151.74	153 ePKP	15 29.30	6.4X
	S.D. = 1.3	on 16 of 21 obs.		

& OCT 24, 1990 06h 58m 05.00s
38.042 N 119.162 W
DEPTH = 2.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 2.5 (BRK).

CMB	0.97	270 iP	58 22.70	-1.4
		iS	58 35.70	
FRI	1.13	203 iPc	58 25.70	-1.3
		iS	58 40.80	
TNP	1.54	88 eP	58 32.50	-1.2
LLA	2.01	225 eP	58 40.80	0.4
		eS	59 07.40	
SAO	2.22	236 iP	58 43.60	0.2
ORV	2.37	310 eP	58 46.10	0.5
		eS	59 15.20	
	6 obs.	associated		

& OCT 24, 1990 08h 20m 04.30s
38.310 N 88.990 W
DEPTH = 5.0km (geophysicist)
SOUTHERN ILLINOIS (488)
<SLM-P>. mblg 3.5 (NEIS), 3.2
(TUL). MD 3.4 (SLM). Fall (IV)
at Bluford, Dix, Richview,
Tamaroo and Woodlawn; (III) at
Centrolia, Dahlgren, Irvington,
Johnsonville, Kell, McLeansboro,
Murphysboro, Radom and Texico.

BPIL	0.33	109 iPd	20 11.12	0.1
		S	20 14.46	
CSIL	0.70	167 ePc	20 17.30	-0.9
WSIL	0.74	75 eP	20 18.13	-1.0
		S	20 28.12	
NHIL	0.75	120 eP	20 18.03	-1.3
		S	20 27.61	
WDIN	1.03	102 ePd	20 22.58	-1.6
		S	20 36.78	
SLM	1.03	289 eP	20 23.12	-1.1
		S	20 36.78	
ELC	1.04	190 eP	20 23.20	-1.2
GOIL	1.07	162 eP	20 23.29	-1.6
FVM	1.18	254 iPd	20 25.56	-1.2
		S	20 41.35	
CCMO	1.23	290 iP	20 26.50	-1.1
TYS	1.26	280 eP	20 26.99	-1.1
DON	1.36	214 ePc	20 28.98	-0.8
DWM	1.55	195 eP	20 32.98	0.3
		S	20 53.59	
THI	1.68	49 P	20 50.00	15.6
		S	21 25.00	
		i	22 03.00	
LDMO	1.95	194 eP	20 38.54	0.2
		S	21 04.31	
ACTN	1.98	188 eP	20 38.55	-0.2
		S	21 05.37	
UTMA	2.01	180 iPc	20 38.96	-0.3
		S	21 05.46	
DRTN	2.19	188 iPd	20 41.48	-0.4
		S	21 10.50	

ECD	2.37	199 eP	20 44.09	-0.4
MILT	2.47	175 ePc	20 45.16	-0.6
		S	21 19.50	
LRDO	2.70	211 eP	20 49.18	0.0
		S	21 27.48	
AFAR	2.97	224 eP	20 52.30	-0.7
		S	21 28.16	
SFTN	3.06	196 eP	20 52.92	-1.3
		S	21 29.18	
PWLA	3.41	167 eP	20 56.98	-2.2
		S	21 37.72	
WLA	3.41	204 iPd	20 58.02	-1.2
		S	21 47.96	
OLY	3.44	216 eP	20 58.40	-1.2
RSCP	3.85	134 eP	21 04.20	-1.3
GBTN	4.65	123 eP	21 15.10	-1.7
TKL	4.94	121 eP	21 19.50	-1.5
TUL	5.94	248 (Pn)	21 35.70	0.7
	1.0s	2.30nm		3.9mb X
		iLg	22 10.10	
NAV	6.57	96 eP	21 43.20	-0.8
BLA	6.88	97 eP	21 44.70	-3.6
MEO	8.48	248 e(P)	22 07.20	-3.6
	33 obs.	associated		

% OCT 24, 1990 08h 32m 03.79±0.71s
44.371 N ±7.2km 7.381 E ±5.4km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.9 (GEN).

STV	0.13	198 P	32 07.32	0.3
		S	32 09.36	
ENR	0.15	169 P	32 07.36	0.1
		S	32 09.90	
PZZ	0.24	304 P	32 08.90	-0.1
		S	32 12.48	
ROB	0.36	102 P	32 11.44	0.2
		S	32 16.57	
IMI	0.59	141 P	32 15.44	-0.3
FIN	0.62	105 P	32 15.87	-0.4
PCP	0.85	78 P	32 20.50	0.3
	S.D. = 0.3	on 7 of 7 obs.		

& OCT 24, 1990 08h 44m 48.70s
38.028 N 119.157 W
DEPTH = 1.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 2.6 (BRK).

CMB	0.97	271 iPc	45 06.50	-1.5
		iS	45 19.60	
FRI	1.12	203 iPd	45 09.50	-1.1
		iS	45 24.20	
TNP	1.53	87 eP	45 15.50	-2.0
LLA	2.00	226 eP	45 24.40	0.3
SAO	2.22	236 iP	45 27.50	0.3
PRI	2.24	213 eP	45 28.50	1.0
ORV	2.38	311 ePd	45 31.00	1.4
	7 obs.	associated		

% OCT 24, 1990 10h 02m 27.68±1.19s
17.085 N ±13.0km 62.109 W ±7.6km
DEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)
ML 2.9 (FDF).

BPA	0.24	99 eP	02 33.00	0.1
		S	02 39.10	
NEV	0.44	277 eP	02 36.71	0.0
		S	02 45.00	
SEG	0.89	139 eP	02 44.39	-0.4
		S	02 58.60	
PAG	1.13	159 eP	02 49.20	0.4
		S	03 07.30	
DOG	1.15	156 eP	02 49.10	-0.1
	S.D. = 0.4	on 5 of 5 obs.		

? OCT 24, 1990 11h 00m 56.69±3.34s
25.896 N ±35.0km 109.942 W ±11.5km
DEPTH = 10.0km (geophysicist)
3.4mb (1 obs.)
GULF OF CALIFORNIA (49)

ALO	9.50	18 ePc	03 17.00	0.2
PLM	9.56	323 eP	03 25.00	7.4X
GSC	11.08	329 eP	03 40.00	1.7

24d 11h

SBB 11.09 324 eP 03 38.00 -0.5
 CLC 11.07 328 eP 03 49.00 0.0
 ISA 12.18 325 eP 03 53.00 -0.2
 TUL 15.70 47 eP 04 44.00 4.4X
 1.1s 3.10nm 3.4mb
 Z 20s 0.58um 4.0Msz
 eLg 09 16.90
 LR 09 17.00
 BW06 16.04 1 eP 04 53.50 -0.8
 OLY 18.52 54 eP 05 15.50 0.5
 LRM 19.99 355 eP 05 31.90 -0.5
 MBC 50.62 357 eP 09 57.00 -0.4
 S.D. = 0.9 on 9 of 11 obs.

OCT 24, 1990 11h 16m 44.94 ± 0.38s
 39.847 N ± 3.6km 30.251 E ± 3.6km
 DEPTH = 25.8 ± 2.7 km
 4.4mb (9 obs.) 3.3Msz (1 obs.)
 TURKEY (366)
 MD 4.4 (ISK). Felt at Burso and
 Eskisehir.

GPA 0.44 6 iPg 16 51.80 -2.5
 IZI 0.77 310 iPg 16 59.30 -0.4
 YLV 0.98 317 iPg 17 02.30 -0.8
 HRT 1.07 336 iPg 17 04.30 0.0
 GBZT 1.12 327 iPg 17 05.00 0.0
 ISK 1.52 324 ePn 17 12.00 1.4
 KHL 1.62 201 iPn 17 12.50 0.2
 BNT 1.86 287 iPn 17 16.30 0.7
 EDC 1.90 286 iPn 17 16.00 -0.2
 CTT 1.90 314 iPn 17 16.80 0.6
 BBTk 1.93 89 iPc 17 17.00 0.2
 BCK 2.40 174 iPn 17 23.30 -0.1
 DMK 2.73 317 iPn 17 28.60 0.5
 IZM 2.74 239 ePn 17 27.00 -1.2
 EZN 3.02 271 ePn 17 32.40 0.2
 KAS 3.08 59 ePn 17 33.00 -0.1
 iSg 18 22.00
 SMG 3.42 232 eP 17 48.00 10.2X
 KSL 3.76 188 eP 17 42.90 0.3
 JMB 3.81 315 eP 17 45.00 1.7
 RDO 3.82 291 eP 17 43.80 0.3
 KDZ 4.09 298 eP 17 48.00 0.6
 PSN 4.13 339 eP 17 50.00 2.1
 DIM 4.20 303 eP 17 49.00 0.2
 RZN 4.59 295 iPd 17 53.00 -1.6
 KVT 4.59 73 ePn 17 54.40 -0.1
 APE 4.63 235 eP 18 13.60 18.5X
 PLD 4.77 300 eP 17 58.00 1.1
 PVL 4.99 314 eP 18 00.00 -0.1
 PLG 5.24 278 eP 18 03.00 -0.7
 MMB 5.25 291 iPc 18 04.00 0.1
 PGB 5.32 302 eP 18 04.00 -0.9
 NEO 5.46 267 eP 18 06.40 -0.3
 BUC1 5.48 326 ePc 18 48.00 41.0X
 BUC 5.51 327 eP 18 36.00 28.6X
 KKB 5.80 293 eP 18 10.00 -1.5
 ISR 5.95 334 eP 17 21.50 -52.2X
 VAY 6.03 287 iPn 18 14.60 -0.2
 VRI 6.55 338 ePd 18 21.00 -1.1
 CMP 6.64 326 ePc 18 12.00 -11.4X
 SKO 7.00 290 ePn 18 25.00 -3.5X
 TNR 7.28 325 ePd 18 32.00 -0.3
 QHR 7.32 283 ePn 18 33.00 0.1
 BZS 8.58 315 eP 18 47.50 -2.9X
 LBF 20.31 299 eP 21 21.40 -0.2
 0.8s 7.40nm 4.1mb
 LOR 20.45 300 eP 21 22.50 -0.5
 0.8s 80.55nm 5.1mb
 Z 20s 0.13um 3.3Msz
 AVF 20.70 298 iPc 21 25.50 -0.1
 0.9s 14.75nm 4.4mb
 HFS 22.80 338 eP 21 46.60 0.1
 0.6s 4.00nm 4.1mb
 LDF 23.33 302 iPc 21 51.80 0.0
 0.8s 17.45nm 4.6mb
 GRR 23.78 301 iPc 21 56.20 0.1
 0.8s 16.10nm 4.6mb
 LPF 23.84 300 iPc 21 56.90 0.2
 0.8s 8.05nm 4.3mb
 NB2 24.26 337 P 22 00.00 0.1
 0.7s 2.60nm 3.9mb
 BCAO 36.81 200 iPc 23 53.20 0.6
 0.5s 7.00nm 4.8mb
 GKN 46.01 88 P 25 00.00 -8.2X

S.D. = 0.8 on 44 of 53 obs.

OCT 24, 1990 11h 27m 10.29 ± 0.70s
 36.395 N ± 7.9km 140.529 E ± 8.3km
 DEPTH = 101.9 ± 5.7 km
 4.5mb (10 obs.)

NEAR EAST COAST OF HONSHU, JAPAN(228)

KAKJ 0.34 237 iPd 27 25.20 -0.3
 S 27 35.50
 CHJJ 1.29 255 P 27 34.30 -0.1
 S 27 52.10
 NIJJ 1.49 305 P 27 37.80 1.0
 S 27 58.40
 YAMJ 1.82 348 P 27 41.90 0.8
 eS 28 05.50
 MAT 1.88 275 iPd 27 42.50 0.7
 eS 28 05.00
 MTMJ 2.20 276 P 27 47.40 1.2
 IIDJ 2.31 247 P 27 48.60 1.0
 S 28 19.60
 OFUJ 2.83 18 P 27 54.00 -0.5
 eS 28 26.20
 TSRI 3.79 258 P 28 08.80 1.2
 AOMJ 4.16 358 eP 28 12.40 -0.3
 WKYJ 4.58 243 P 28 17.80 -0.8
 S 29 08.80
 TKSJ 5.83 247 P 28 35.00 -0.7
 S 29 43.40
 YONJ 5.87 260 P 28 36.40 0.1
 S 29 46.70
 MRRJ 6.04 4 eP 28 36.60 -1.9
 eS 29 38.60
 HOOJ 6.35 19 eP 28 40.70 -2.1
 S 29 48.40
 KUSJ 7.43 24 P 28 53.90 -3.7X
 S 30 09.80
 ASAJ 7.88 11 eP 28 59.70 -4.1X
 eS 30 26.40
 BJI 19.46 288 eP 31 27.00 -4.3X
 1.5s 26.00nm 4.3mb
 LZH 29.48 280 P 33 13.00 6.2X
 GUN 46.51 276 P 35 29.14 -0.4
 0.9s 18.00nm 4.9mb
 PKI 47.03 276 P 35 32.58 -1.1
 KKN 47.04 276 P 35 32.88 -0.7
 DMN 47.26 276 P 35 34.74 -0.6
 GKN 47.47 277 P 35 36.26 -0.6
 1.0s 8.00nm 4.5mb
 INK 55.28 27 eP 36 35.00 0.3
 WB5 56.27 187 eP 36 40.50 -1.9
 ASPA 60.06 187 iPd 37 06.80 -1.9
 0.8s 7.00nm 4.8mb
 GBA 60.46 265 P 37 18.00 6.4X
 HFS 74.37 335 eP 38 37.20 -1.0
 0.8s 5.30nm 4.4mb
 NB2 74.58 337 P 38 39.00 0.1
 0.8s 4.60nm 4.4mb
 FFC 74.63 32 eP 38 40.00 0.3
 0.8s 12.00nm 4.8mb
 LRM 75.10 44 eP 38 43.70 0.8
 TNP 76.84 52 iP 38 54.00 1.2
 1.0s 7.00nm 4.4mb
 DAU 79.11 48 iP 39 06.80 1.5
 1.0s 1.00nm 3.6mb
 PV09 81.59 48 eP 39 19.50 1.0
 ALO 85.54 49 eP 39 39.20 0.7
 1.0s 3.50nm 4.3mb
 ZOBD 147.62 59 PKP 40 05.00
 i 40 44.00 1.5
 LPB 147.82 60 ePKP 46 43.00 0.4
 CNCB 148.09 60 PKP 46 45.00 1.8X
 i 46 48.00
 SIV 152.04 49 PKP 46 49.70 1.2
 i 46 56.00

S.D. = 1.1 on 34 of 40 obs.

? OCT 24, 1990 11h 50m 54.47 ± 0.96s
 40.836 N ± 6.5km 20.130 E ± 10.3km
 DEPTH = 5.0km (geophysicist)
 TURKEY (366)
 MD 2.1 (ISK).
 CTT 0.38 36 iPg 51 02.60 0.4
 BNT 0.51 199 iPg 51 04.80 0.2
 eSg 51 12.30

DMK 1.02 344 ePn 51 14.00 -0.3
 IZI 1.14 116 ePn 51 16.00 -0.3
 S.D. = 0.6 on 4 of 4 obs.

OCT 24, 1990 11h 51m 46.71 ± 0.28s
 44.773 N ± 2.9km 10.311 E ± 2.7km
 DEPTH = 11.9 ± 1.9 km
 NORTHERN ITALY (545)
 MD 3.5 (TRI). ML 3.5 (LDG).

BOB 0.61 270 P 51 59.20 0.2
 eSg 52 08.50
 MME 0.64 154 Pc 51 59.50 -0.1
 BDI 0.74 164 Pd 52 01.00 -0.1
 eSg 52 12.00
 SAL 0.85 10 Pd 52 04.70 1.8
 eSg 52 18.80
 PII 1.06 172 Pd 52 07.30 0.8
 eSg 52 21.80
 MDI 1.09 337 P 52 08.20 1.2
 eSg 52 26.00
 PCP 1.28 260 P 52 10.53 0.2
 S 52 27.05
 PGD 1.35 131 P 52 13.50 2.0
 eSg 52 30.50
 SFI 1.40 127 P 52 13.00 1.1
 eSn 52 30.00
 CKI 1.49 257 P 52 14.10 0.8
 eSg 52 34.20
 VAI 1.54 316 P 52 16.20 2.2
 eSn 52 35.00
 CTI 1.59 36 P 52 14.40 -0.4
 eSn 52 38.00
 FIN 1.61 250 P 52 15.13 0.1
 S 52 31.74
 TMA 1.67 323 ePc 52 16.30 0.2
 ROB 1.81 256 P 52 17.95 0.0
 VDL 1.81 341 ePc 52 19.50 1.4
 ORX 1.86 298 P 52 18.33 -0.4
 OSS 1.92 357 ePc 52 20.90 1.3
 IMI 1.94 244 P 52 19.74 -0.1
 MMK 2.09 309 ePc 52 24.40 2.2
 SAOF 2.13 249 Pn 52 22.89 0.3
 Sg 52 49.87
 ENR 2.14 256 P 52 23.01 0.2
 S 52 44.90
 OGA 2.15 13 iPnc 52 24.60 1.5
 RSP 2.20 281 P 52 23.27 -0.4
 S 52 44.44
 STV 2.20 257 P 52 23.75 0.1
 S 52 47.17
 AUTN 2.21 250 Pn 52 24.04 0.1
 Sg 52 54.29
 SBF 2.26 247 Pn 52 24.40 -0.1
 Sn 52 53.60
 ARV 2.28 123 P 52 24.50 -0.3
 LLS 2.29 337 ePd 52 26.90 1.9
 PZZ 2.31 264 P 52 24.78 -0.5
 S 52 47.92
 AURF 2.32 249 Pn 52 25.69 0.3
 Sg 52 56.37
 TOUF 2.32 252 Pn 52 27.66 2.1
 LSD 2.34 288 P 52 26.60 0.8
 REVF 2.35 245 Pn 52 25.84 0.0
 Sg 52 55.46
 ASS 2.40 134 P 52 26.00 -0.5
 PGF 2.42 204 Pn 52 26.36 -0.4
 Sg 52 55.35
 DIX 2.42 304 ePc 52 25.00 -2.0
 MVIF 2.43 250 Pn 52 27.66 0.7
 Sg 52 59.66
 FVI 2.51 43 P 52 28.40 0.5
 RRL 2.51 275 P 52 28.72 0.5
 SOTA 2.53 14 iPnc 52 29.50 1.2
 0.3s 18.60nm iSn 53 14.20
 BNI 2.60 277 P 52 29.00 -0.4
 eSn 52 58.50
 TRI 2.61 68 iPnc 52 27.80 -1.6
 iSn 52 59.70
 iSg 53 12.20
 LPG 2.62 287 Pn 52 30.30 0.4
 Sn 53 01.60
 LPL 2.64 288 Pn 52 30.20 0.1
 CALN 2.66 249 Pn 52 30.82 0.5
 Sg 53 05.62
 EMS 2.71 300 ePc 52 33.50 2.4

24d 12h

TNS	145.66	359	ePKPc	37 52.80	-0.4	MDI	150.07	357	PKP	38 03.50	3.4X	CUT	2.46	8	eP	55 26.95	2.1
DOU	145.68	4	PKP	37 53.30	0.2	RJF	150.10	9	iPKPc	38 05.20	4.9X	VLZ	2.60	62	eP	55 24.87	-1.9
				38 03.50			1.4s	61.00nm				KLU	2.94	57	eP	55 29.04	-2.6
GRF	146.08	356	ePKPc	37 54.80	1.0	Z	20s	0.20um		4.9Msz		36 obs. associated					
Z	22s	0.20um		4.9Msz		LFF	150.33	10	iPKPc	38 05.80	5.2X	& OCT 24, 1990 13h 09m 23.20s					
				38 06.20		LPL	150.35	2	iPKPc	38 07.20	6.3X	38.047 N 119.142 W					
KAS	146.10	324	ePKP	37 56.00	1.8		1.6s	55.95nm				DEPTH = 11.0km					
FLN	146.41	10	ePKP	37 55.20	0.9	LPG	150.37	2	iPKPc	38 07.30	6.2X	CALIFORNIA-NEVADA BORDER REGION (40					
	1.6s	124.40nm					1.4s	65.35nm				<BRK>. ML 3.0 (BRK)).					
Z	20s	0.20um		4.9Msz		LBL	150.39	7	PKP	38 06.67	6.0X	CMB	0.98	270	iP	09 40.90	-0.9
KHC	146.43	353	iPKPc	37 55.20	0.8	DSI	150.44	307	ePKP	38 07.00	5.8X				iS	09 54.00	
				38 05.50		CAF	150.55	8	iPKPc	38 06.60	5.6X	FRI	1.15	203	iPc	09 44.00	-0.5
PSZ	146.47	345	ePKP	37 55.20	0.6		1.6s	80.85nm							iS	09 58.90	
LDF	146.64	10	ePKP	37 55.80	1.1	LPO	150.65	10	iPKPc	38 06.60	5.5X	LLA	2.02	226	eP	09 58.70	1.0
	1.5s	73.10nm					1.6s	99.50nm							eS	10 25.60	
GRR	146.71	11	ePKP	37 56.20	1.4	BNi	150.82	2	PKP	38 07.80	6.3X	MHC	2.10	251	eP	10 00.20	1.3
	1.3s	75.80nm				BOB	151.09	358	PKP	38 04.50	2.6X	SAO	2.24	236	iP	10 01.70	1.0
NAI	146.78	242	iPKPc	37 54.70	-1.6	PRNI	151.26	305	ePKP	38 09.00	6.5X	PRI	2.26	213	eP	10 02.80	1.7
VKA	146.88	350	iPKPc	37 57.50	2.4X	SKO	151.42	339	ePKP	38 08.20	5.9X	ORV	2.38	310	eP	10 04.50	1.8
				38 08.00						38 17.50					eS	10 36.00	
GWF	146.91	0	PKP	37 56.80	1.6	VAY	151.57	336	ePKP	38 08.40	5.8X	7 obs. associated					
SRO	146.93	347	e(PKP)	37 57.70	2.5X	MBH	151.58	304	ePKP	38 10.00	7.1X	7 OCT 24, 1990 14h 20m 53.87±12.83					
LPF	147.02	11	ePKP	37 57.00	1.7	SFI	151.76	354	PKP	38 09.50	6.8X	0.130 N ±39.7km 79.893 W ±98.1km					
	1.2s	107.10nm				PGD	151.82	354	PKP	38 09.50	6.4X	DEPTH = 33.0km (normal)					
CMP	147.26	337	ePKPc	38 04.00	8.1X	ARV	152.05	352	PKP	38 09.50	6.2X	NEAR COAST OF ECUADOR (105					
CDF	147.47	1	PKP	37 58.35	2.2	EPF	152.10	12	ePKP	38 10.20	6.8X	YANA	1.34	100	P	21 16.60	-0.3
WLS	147.47	1	PKP	37 58.36	2.2		1.6s	43.55nm				OUR	1.40	102	iPd	21 17.20	-0.4
FUR	147.60	356	iPKPd	37 59.50	3.2X	OHR	152.40	339	ePKP	38 08.20	4.3X				iS	21 40.00	
VITF	147.63	2	PKP	37 58.28	2.0		1.5s	98.00nm							eS	21 17.50	-0.2
ECH	147.66	1	PKP	37 58.70	2.3	ASS	152.51	352	PKP	38 11.00	7.0X	OTO	1.40	104	eP	21 17.50	-0.2
BBTK	147.68	323	ePKP	38 00.00	3.2X	LWI	152.64	231	iPKPc	38 13.20	8.0X	COTA	1.57	83	eP	21 20.00	-0.2
HAU	147.85	2	iPKPc	37 59.80	3.1X	MNS	153.18	352	PKP	38 07.00	2.1				eS	21 45.80	
	1.2s	53.55nm				AZI	153.46	351	PKP	38 11.50	6.3X	VC1	1.68	117	P	21 22.30	0.5
Z	20s	0.20um		4.9Msz		SDI	153.68	350	PKP	38 06.00	0.4				iS	21 51.80	
BHG	147.90	354	ePKP	38 00.50	3.7X	BCAO	164.61	224	iPKPc	38 18.10	-0.7	CAYA	1.91	91	P	21 26.00	0.8
MOF	148.03	1	PKP	37 59.65	2.6X		0.7s	27.00nm				TUNG	2.11	137	eP	21 27.00	-0.1
BSF	148.04	1	PKP	37 59.76	2.6X					38 28.10		S.D. = 0.6 an 7 of 7 obs.					
BZS	148.11	342	ePKP	37 59.00	1.9	S.D. = 1.0 on 122 of 205 obs.						* OCT 24, 1990 14h 31m 48.56±1.31					
GRC	148.34	6	PKP	38 01.04	3.6X	& OCT 24, 1990 12h 54m 46.29s						10.954 N ±13.2km 73.675 W ± 8.1km					
ZLA	148.40	359	ePKPc	38 15.80	18.1X					59.986 N 151.049 W		DEPTH = 76.6 ± 11.6 km					
BBS	148.42	0	PKP	37 59.51	1.8	DEPTH = 40.0km						NORTHERN COLOMBIA (99					
LOR	148.44	5	iPKPc	38 01.30	3.6X	KENAI PENINSULA, ALASKA (14)						Felt at Cartagena, Santa Marta					
	1.4s	56.65nm				<AGS-P>.						and Barranquilla.					
Z	20s	0.30um		5.1Msz		NNL	0.14	295	iP	54 53.98	0.8	UAV	3.41	133	iPnd	32 40.30	-0.4
SQTA	148.54	356	iPKPc	38 01.30	3.3X	BRLK	0.24	160	iP	54 53.52	-0.5	SDV	3.63	124	iPnc	32 44.10	0.3
	1.5s	67.50nm				HOM	0.45	223	eP	54 56.02	-0.3	BMG	3.90	171	iPd	32 46.00	-1.5
MFF	148.56	11	iPKPc	38 01.40	3.5X					55 03.61		TOV	3.99	107	iPnd	32 50.20	1.5
	1.4s	95.85nm				CNPM	0.47	192	iP	54 55.78	-0.9				iSn	33 31.90	
SSF	148.61	6	iPKPc	38 01.80	3.9X	XLV	0.63	213	eP	54 57.69	-1.2	FUO	5.45	181	eP	33 16.50	7.1
	1.6s	136.80nm				SLKM	0.67	38	iP	54 58.89	-0.5	CEOS	5.60	109	iPc	33 10.00	-1.2
LBF	148.73	5	iPKPc	38 01.90	3.7X					55 08.55					iS	34 08.00	
	1.6s	108.85nm				NKA	0.77	353	eP	55 01.98	1.3	UPA	6.09	252	iPc	33 18.00	0.6
AVF	148.86	6	iPKPc	38 02.00	3.7X	SEW	0.81	81	eP	55 00.43	-0.9				S	34 20.50	
	1.6s	74.65nm				RDT	0.90	312	eP	55 02.04	-0.6	PLAV	6.17	99	eP	33 20.00	0.8
OGA	148.91	356	iPKPd	38 03.20	4.5X	RED	0.96	298	eP	55 02.73	-0.9				eS	34 29.00	
LLS	149.00	359	ePKPd	38 03.30	4.5X	RSD	0.98	300	eP	55 03.07	-0.8	BOG	6.30	184	eP	33 22.00	0.8
FVI	149.02	353	PKP	38 01.50	3.0X					55 16.45					eS	34 34.00	
BGF	149.04	7	iPKPc	38 02.80	4.2X	OPT	1.15	254	eP	55 05.63	-0.6	GUAC	6.34	96	iPd	33 22.50	0.9
	1.6s	93.30nm				SPU	1.30	338	iP	55 07.95	-0.4				iS	34 31.00	
SMF	149.06	5	ePKP	38 02.70	4.0X	AUE	1.34	243	eP	55 08.46	-0.3	CAR	6.65	93	iPc	33 26.00	0.2
	1.6s	74.65nm				CKL	1.37	333	eP	55 08.85	-0.6				iS	34 36.50	
OSS	149.14	357	ePKPc	38 03.30	4.3X					55 27.41		LLAV	6.77	93	iPc	33 27.00	-0.4
LSF	149.17	9	iPKPc	38 02.70	3.8X	AUI	1.37	243	eP	55 09.15	-0.2				iS	34 38.00	
	1.4s	61.00nm				CRP	1.40	337	eP	55 09.88	0.1	CUM	9.35	92	iP	34 01.50	-1.4
TCF	149.23	8	iPKPc	38 03.10	4.1X	CGLM	1.41	341	iP	55 09.75	-0.2	ZOBO	27.60	168	P	37 33.00	1.6
	1.6s	62.20nm				BGL	1.44	333	eP	55 10.27	-0.1	LPB	27.86	168	eP	37 28.00	-5.6
PTJ	149.23	349	ePKP	38 01.90	2.8X	PMS	1.46	30	eP	55 10.74	0.1	CNCB	28.15	168	P	37 35.80	-0.6
LJU	149.33	351	ePKP	38 02.00	2.9X	SUA	1.49	6	eP	55 11.01	-0.1	SIV	29.53	155	P	37 44.00	-4.2
MAF	149.34	7	iPKPc	38 03.80	4.7X	NCG	1.52	340	eP	55 11.40	-0.2	SOB1	38.27	120	eP	39 03.10	-0.5
	1.4s	78.40nm				PDB	1.60	264	eP	55 11.75	-0.7	KIC	68.19	87	P	42 43.00	-0.4
VDL	149.37	358	ePKPd	38 04.30	4.9X	CDD	1.70	232	eP	55 13.70	-0.2	WB5	151.58	248	ePKP	51 37.00	7.2
VOY	149.44	352	e(PKP)	38 04.50	5.1X	KNIM	1.70	76	eP	55 11.68	-2.2	S.D. = 1.1 on 16 of 20 obs.					
AGO	149.57	7	PKP	38 04.04	4.6X	MTU	1.71	88	eP	55 14.04	0.0	% OCT 24, 1990 14h 35m 30.09±1.78					
CEY	149.65	351	ePKP	38 04.00	4.4X	PWA	1.77	18	eP	55 15.45	0.6	60.138 N ± 7.0km 4.881 E ±15.9k					
VVI	149.66	354	PKP	38 04.00	4.4X	MCNL	1.86	246	eP	55 15.81	-0.4	DEPTH = 10.0km (geophysicist)					
CTI	149.67	355	PKP	38 03.50	3.8X	PLRM	1.87	29	eP	55 16.67	0.3	SOUTHERN NORWAY (535					
PLDF	149.70	6	PKP	38 04.53	4.8X	SKT	2.02	354	eP	55 18.94	0.4	MD 2.1 (BER).					
VBY	149.74	350	ePKP	38 03.50	3.8X	GHO	2.07	29	eP	55 18.90	-0.5	BER	0.33	42	eP	35 37.33	0.5
TMA	149.77	359	ePKPc	38 04.50	4.5X	GLI	2.16	64</									

ASK	0.38	24	iPc	35 37.98	0.1	Z	14s	0.90um	4.5MszX	MOF	32.99	246 P	04 36.17	-0.4
			eS	35 49.05		N	14s	0.50um		ZLA	33.01	244 ePd	04 36.40	-0.2
SUE	0.92	356	iPc	35 47.65	-0.1				04 07.30	HAU	33.06	247 iPc	04 36.80	-0.2
			eS	36 01.82					04 24.50		1.0s	96.00nm		5.7mb
HYA	1.22	31	eP	35 53.01	0.3	EKA	29.14	264 Pc	04 02.30 -0.1	Z	20s	0.28um		4.0Msz
			eS	36 11.69			0.6s	97.30nm	5.8mb	BSF	33.10	246 P	04 37.10	-0.4
BLS1	1.24	126	iPc	35 53.38	0.2	ESK	29.17	264 iPc	04 02.50 -0.1	CEY	33.13	236 eP	04 37.50	-0.1
			eS	36 10.97			0.5s	150.00nm	6.1mb	VBY	33.15	235 ePc	04 38.00	0.2
BLS2	1.34	128	iP	35 55.04	0.2	MOX	29.26	243 iPc	04 03.00 -0.5	PVL	33.18	221 iPc	04 38.00	-0.1
			eS	36 13.49			1.3s	56.00nm	5.2mb	BBS	33.25	245 P	04 38.18	-0.5
MOL	2.76	27	eP	36 14.87	-0.2	BMR	29.27	226 iPd	04 04.00 0.4	OSS	33.29	242 ePc	04 39.80	0.5
NRA0	3.36	77	Pn	36 22.70	-0.9	WTS	29.30	250 iPc	04 03.90 0.1	TRI	33.31	237 iPc	04 38.90	-0.3
			Sn	37 05.60			0.6s	155.00nm	6.0mb	VVI	33.38	239 P	04 40.00	0.2
			Lg	37 23.20		PTT	29.40	221 eP	04 04.50 -0.3	LLS	33.42	243 ePd	04 40.60	0.2
S.D. = 0.5 on 8 of 8 obs.						HOF	29.50	242 iPc	04 05.80 0.1	CTI	33.51	239 Pc	04 40.90	-0.2
OCT 24, 1990 14h 57m 58.11±0.10s						PSZ	29.81	231 iP	04 08.90 0.3	LOMF	33.54	246 P	04 40.93	-0.3
73.361 N ±1.8km 54.707 E ±1.9km						BNS	30.14	248 iPc	04 11.40 0.1	KVT	33.57	206 iP	04 41.50	0.0
DEPTH = 0.0km (geophysicist)						KHC	30.16	239 iPc	04 12.00 0.3	KAS	33.59	209 eP	04 42.50	0.8
5.7mb (102 obs.) 4.0Msz (6 obs.)							1.0s	35.50nm	5.2mb	VDL	33.65	242 ePc	04 43.10	0.7
NOVAYA ZEMLYA (648)										JMB	33.68	219 iPc	04 52.00	9.6X
KEV	9.42	261	iP	00 14.60	-3.4X	ZST	30.19	234 iP	04 11.20 -0.6	PGB	34.05	222 eP	04 41.00	-4.7X
			i	01 59.90		GRF	30.24	243 iPc	04 12.80 0.5	DMK	34.09	217 iP	04 45.90	-0.1
KTK1	10.94	262	eP	00 34.54	-4.3X		1.0s	141.00nm	5.8mb	VAL	34.15	267 iP	04 46.00	-0.4
SOD	11.08	251	iP	00 35.00	-5.7X	Z	22s	0.10um	3.4Msz	TMA	34.16	243 ePd	04 46.60	-0.2
KBS	11.36	318	iPc	00 39.90	-4.6X	SRO	30.27	233 eP	04 12.10 -0.4	BRW	34.19	17 eP	04 47.80	1.3
LOF	14.28	269	eP	01 18.24	-5.1X				04 42.80	SAL	34.20	240 P	04 46.30	-0.6
SUF	14.88	239	iP	01 24.90	-6.3X				05 14.60	FLN	34.23	255 iPc	04 46.60	-0.5
	0.6s	159.60nm			5.8mb	VKA	30.31	235 iPd	04 13.00 0.1		0.8s	157.40nm		6.0mb
NUR	17.15	237	iP	01 53.80	-6.5X		0.7s	157.00nm	6.0mb	Z	20s	0.28um		4.0Msz
	1.6s	19.00nm			4.0mb X	WET	30.32	240 iPc	04 13.50 0.4	MDI	34.25	242 Pc	04 46.70	-0.6
		iS	04 56.00			0.6s	66.00nm	5.7mb		LDF	34.28	254 iPc	04 46.80	-0.8
JNE	18.63	294	eP	02 19.33	0.7	TNS	30.47	246 ePc	04 14.60 0.2		0.8s	79.25nm		5.7mb
JNW	18.65	294	iPc	02 20.22	1.5	MBC	30.55	357 iPc	04 15.00 0.2	LOR	34.40	249 iPc	04 47.80	-0.9
JMI	18.79	294	eP	02 22.30	1.8		0.5s	170.00nm	6.2mb		0.6s	140.90nm		6.0mb
RGS	18.86	260	eP	02 16.40	-5.1X	ENN	30.65	250 iPc	04 15.00 -0.9	Z	20s	0.20um		3.9Msz
UPP	19.49	246	iP	02 25.80	-3.3X		0.6s	166.00nm	6.1mb	VAI	34.41	243 P	04 48.30	-0.3
MOL	20.04	262	eP	02 32.80	-2.2	KLL	30.66	249 iPc	04 15.90 0.0	MMK	34.44	244 ePc	04 49.60	0.3
NB2	20.24	256	P	02 34.00	-3.2X	MEM	30.77	249 iPc	04 16.43 -0.5	DIX	34.56	244 ePc	04 50.80	0.5
	0.4s	385.40nm			6.1mb			PcP	07 14.20	GRC	34.59	250 P	04 49.45	-0.8
HFS	20.31	251	eP	02 35.50	-2.4	TNR	31.04	224 ePc	04 19.00 -0.4	ISK	34.61	215 eP	04 50.20	-0.2
	0.4s	970.10nm			6.5mb	UCC	31.05	251 P	04 21.60 2.3	LBF	34.63	249 iPc	04 49.70	-1.0
Z	16s	0.40um			3.9MszX	CMP	31.26	222 iPd	04 26.00 4.6X		0.8s	81.35nm		5.6mb
		LR	10 56.00			SNF	31.33	251 iPc	04 21.19 -0.6	CTT	34.64	216 eP	04 50.20	-0.5
NRA0	20.40	255	Pn	02 36.70	-2.1			PcP	07 15.70	GRR	34.67	255 iPc	04 50.00	-0.9
		Sn	06 08.20			STU	31.61	244 iPd	04 24.50 0.2		1.0s	86.00nm		5.6mb
HYA	21.56	261	iPd	02 50.35	-0.3		0.9s	67.23nm	5.6mb	KDZ	34.68	220 eP	04 52.00	0.9
SUE	22.05	263	iPd	02 55.16	-0.4	DOU	31.62	250 iPc	04 23.80 -0.6	SSF	34.69	249 iPc	04 50.40	-0.7
ASK	22.40	261	eP	02 59.35	0.3		0.4s	67.90nm	5.9mb		0.8s	188.90nm		6.0mb
BLS2	22.89	258	eP	03 04.57	0.5			PcP	07 16.90	EMS	34.69	245 ePc	04 51.50	0.1
COP	24.50	247	iPc	03 20.00	0.4	BZS	31.62	227 eP	04 23.50 -0.9	HRT	34.75	214 iP	04 52.20	0.5
	0.7s	301.37nm			6.1mb	FUR	31.63	241 iPc	04 24.90 0.3	RZN	34.78	221 iPc	04 52.00	-0.1
		i	03 28.00				0.8s	43.00nm	5.4mb	ORX	34.83	243 P	04 51.63	-0.8
AKU	24.92	290	iP	03 26.20	2.7	BHG	31.65	239 iPc	04 25.80 1.1	KKB	34.92	223 iPc	04 53.00	-0.1
	1.0s	104.00nm			5.5mb		0.6s	49.00nm	5.6mb	AVF	34.98	249 iPc	04 52.60	-0.9
		i	07 01.70			GWF	31.83	246 P	04 26.20 -0.1		0.9s	92.75nm		5.6mb
BRN	27.24	242	eP	03 46.00	0.8	DRA	31.98	223 eP	04 30.00 2.4	SMF	34.98	249 iPc	04 52.60	-1.0
EDR	27.60	265	ePc	03 48.30	-0.2	KBA	32.13	238 iPc	04 30.50 1.4		1.0s	179.70nm		5.9mb
	0.8s	78.00nm			5.5mb		0.4s	105.00nm	6.1mb	YLV	35.04	215 iP	04 53.70	-0.6
KRA	27.79	232	iPd	03 50.10	-0.1			i	04 37.00	LPF	35.05	255 iPc	04 53.20	-0.9
	0.6s	193.00nm			6.1mb	PSN	32.21	217 iPc	04 31.00 1.4		0.8s	73.90nm		5.6mb
		i	03 54.60			ETA	32.32	264 eP	04 30.20 -0.3	BCI	35.06	227 iP	04 54.90	0.7
KSP	27.91	237	iPc	03 51.30	-0.1		0.6s	50.00nm	5.6mb	MMB	35.06	222 iPc	04 55.00	0.6
	0.7s	186.00nm			6.0mb	WATA	32.33	240 iPc	04 31.10 0.3	RDO	35.15	220 eP	04 55.00	0.0
		i	07 07.50				0.5s	31.50nm	5.5mb	SKO	35.15	225 iP	04 53.50	-1.6
		e	09 05.10					i	04 37.10		0.9s	112.00nm		5.7mb
EDU	28.05	265	ePc	03 52.20	-0.4	WLS	32.42	246 P	04 31.38 -0.1	GPA	35.16	213 iP	04 55.00	-0.3
	0.5s	87.00nm			5.8mb	CDF	32.44	246 P	04 31.51 -0.2	LSD	35.20	244 P	04 56.14	0.3
CLL	28.30	242	iPc	03 54.10	-0.7	SOTA	32.53	241 iPc	04 32.70 0.2	BBTK	35.23	210 iPd	04 57.00	1.1
	1.2s	105.00nm			5.5mb		0.5s	22.30nm	5.3mb	LPL	35.26	245 iPc	04 56.60	0.3
		i	04 17.30					i	04 36.80		0.6s	27.95nm		5.3mb
EBH	28.45	265	ePc	03 55.70	-0.5	BEO	32.63	228 iP	04 33.70 0.5	BOB	35.26	241 Pc	04 56.30	0.2
	0.6s	55.00nm			5.6mb	SLE	32.72	244 ePc	04 33.60 -0.5	LPG	35.27	245 iPc	04 56.90	0.5
ESY	28.48	264	ePc	03 56.10	-0.3	FVI	32.72	238 Pc	04 34.70 0.7		0.6s	27.95nm		5.3mb
	0.5s	163.00nm			6.1mb	FEL	32.74	245 eP	04 34.50 0.1	RSM	35.30	237 P	04 59.10	2.8
WIT	28.61	251	iPc	04 02.10	4.6X	ECB	32.78	264 eP	04 34.20 -0.3	BGF	35.33	250 iPc	04 56.20	-0.4
EDI	28.64	264	ePc	03 57.60	-0.2		0.6s	38.00nm	5.5mb		0.6s	183.20nm		6.1mb
EBL	28.73	264	ePc	03 58.40	-0.2	LJU	32.81	236 eP	04 35.30 0.4	PUK	35.40	227 iPc	04 56.30	-0.9
EAB	28.74	266	ePc	03 58.30	-0.5	ECP	32.83	264 eP	04 34.80 0.0	SFI	35.46	238 Pc	04 58.50	0.9
EAU	28.78	264	ePc	03 59.00	-0.1		0.6s	173.00nm	6.2mb	RSP	35.46	244 P	04 56.96	-0.9
	0.5s	140.00nm			6.0mb	OCA	32.90	241 iPc	04 36.70 0.8	MME	35.48	239 P	04 59.10	0.9
IAS	28.93	220	eP	04 01.00	0.4		0.8s	57.00nm	5.6mb	BNT	35.49	216 iP	04 58.70	0.7
PRU	29.13	239	iPc	04 02.70	0.4	VITF	32.96	247 P	04 36.17 0.1	EDC	35.51	216 iP	04 59.00	0.8
						SAX	32.97	243 ePd	04 36.90 0.3	SDA	35.51	228 eP	04 57.90	-0.2
						VOY	32.98	237 iP	04 36.30 -0.1	PGD	35.53	238 Pc	04 59.30	0.8
										VAY	35.55	224 iPc	04 57.00	-0.6
											1.1s	87.00nm		5.5mb

24d 15h

ARV	35.59	236	Pc	04	58.90	0.1	0.6s	32.00nm	5.2mb	MJMA	47.82	191	iP+	06	38.30	-0.7				
BDI	35.63	239	Pc	04	59.40	0.1	ROI	38.49	230	P	05	25.00	1.8	KDC	47.87	19	iPc	06	39.10	0.2
PLDF	35.66	249	P	04	58.79	-0.7	ATH	38.56	221	eP	05	23.80	0.0		0.5s	233.60nm	6.6mb			
PCP	35.70	242	P	04	58.71	-1.1	CZI	38.92	230	P	05	26.70	-0.1	GKN	48.08	144	Pc	06	41.46	0.2
BN1	35.71	245	P	05	00.40	0.5	VLS	38.98	225	eP	05	27.20	-0.1		0.6s	445.00nm	6.8mb			
MAF	35.71	250	iPc	04	59.60	-0.3	APE	39.11	218	eP	05	28.10	-0.4	GUN	48.39	142	Pc	06	44.10	0.3
	0.6s	45.80nm			5.5mb		EPF	39.27	250	iPc	05	29.60	-0.2		0.4s	273.00nm	6.7mb			
AGO	35.72	249	P	04	59.44	-0.5		0.4s	35.80nm	5.4mb	KKN	48.40	143	Pc	06	44.24	0.5			
TCF	35.75	250	iPc	04	59.70	-0.5	ETER	39.27	247	iPc	05	30.30	0.6	DMN	48.55	143	Pc	06	45.40	0.5
	1.0s	140.65nm			5.7mb		OGE	39.36	251	P	05	30.16	-0.3		0.6s	380.00nm	6.6mb			
RRL	35.80	244	P	05	01.17	0.3	JAU	39.46	251	P	05	30.91	-0.5	PKI	48.64	143	Pc	06	46.00	0.3
LACI	35.83	227	iPc	05	00.50	-0.3	ESCF	39.47	251	P	05	30.48	-1.0		0.8s	434.00nm	6.6mb			
CKI	35.88	242	Pc	05	00.80	-0.4	MADF	39.48	252	P	05	30.85	-0.6	RYD	48.88	190	iP+	06	47.50	0.3
LSF	35.97	251	iPc	05	01.40	-0.6	ARG	39.50	215	eP	05	31.80	0.2	SDN	49.35	26	iPc	06	49.70	-0.7
	0.8s	272.85nm			6.1mb		ATE	39.50	251	P	05	30.91	-0.8	SIT	49.68	7	iPc	06	54.00	1.1
PII	35.97	239	Pc	05	02.00	0.0	ELYF	39.50	252	P	05	31.04	-0.7	AFIF	49.70	194	iP+	06	56.50	2.9
PYM	36.03	249	P	05	02.65	0.0	IMA	39.57	18	P	05	32.50	0.4	ADK	50.21	39	iPd	06	57.00	0.0
ASS	36.06	236	P	05	03.40	0.5		0.7s	7.99nm	4.5mb X					1.0s	232.40nm	6.1mb			
TIR	36.08	227	iPc	05	03.00	0.1	BOH	39.57	252	P	05	31.76	-0.6	AVE	50.50	254	iP	07	00.00	0.5
FIN	36.10	242	P	05	01.78	-1.4	ISSF	39.58	252	P	05	32.06	-0.4	AKSR	51.15	206	eP	07	04.00	-0.5
ROB	36.10	243	P	05	02.30	-0.9	LHE	39.64	251	P	05	33.62	0.7	FFC	51.21	343	iPc	07	04.30	-0.3
MFF	36.11	253	iPc	05	02.80	-0.3	ITM	39.67	223	eP	05	32.40	-0.7		0.5s	60.00nm	5.8mb			
	1.0s	160.15nm			5.8mb		VLI	39.93	221	eP	05	33.40	-1.8	AGAL	51.38	206	eP	07	06.50	0.3
PZZ	36.10	244	P	05	01.89	-1.4	ATN	40.08	231	P	05	34.50	-2.0	SHL	51.80	136	iP	07	09.00	-0.7
ENR	36.28	243	P	05	02.71	-2.1	KAP	40.30	216	eP	05	36.40	-1.9	OFUJ	52.19	80	eP	07	12.80	0.6
EZN	36.29	218	eP	05	04.50	-0.2	ECRI	40.44	253	iPc	05	40.20	0.8	TIO	52.69	252	iPc	07	17.40	1.0
PLG	36.29	222	eP	05	04.60	-0.2	MNO	40.48	232	P	05	40.00	0.0	NIJ	53.14	83	P	07	19.00	-0.4
STV	36.29	243	P	05	02.71	-2.1	GIB	40.57	232	P	05	46.00	5.4X	KMSA	53.32	192	iP+	07	20.40	-0.5
LBL	36.44	248	P	05	06.33	0.4	NPS	40.85	217	eP	05	30.20	-12.6X	MTMJ	53.41	84	P	07	21.40	-0.1
SAOF	36.47	243	P	05	05.46	-0.8	VAM	40.97	219	eP	05	41.40	-2.3	MAT	53.56	84	iPd	07	22.00	-0.5
AUTN	36.50	243	P	05	06.63	-0.1	MCT	41.00	233	P	05	44.30	0.1	SSE	53.79	103	Pd	07	22.50	-1.7
TOUF	36.53	243	P	05	06.81	-0.1	EMON	41.02	259	eP	05	45.20	1.0		1.0s	19.00nm	5.1mb			
AQU	36.56	235	P	05	07.80	0.7	FBA	41.19	14	iPc	05	47.00	1.8	CBM	53.82	314	P	07	23.50	-0.7
KBN	36.57	225	eP	05	06.30	-0.8	MEU	41.22	231	P	05	44.60	-1.3	TSRJ	53.86	87	P	07	24.70	0.0
SBF	36.62	243	iPc	05	07.00	-0.6	EROO	41.31	249	iPc	05	46.80	0.3	CHJJ	54.25	84	P	07	26.40	-1.1
	0.6s	137.40nm			5.9mb		FAI	41.33	232	P	05	47.00	0.3	IIDJ	54.47	85	P	07	28.70	-0.5
AURF	36.62	243	P	05	07.20	-0.4	ADI	41.56	205	iPc	05	49.40	0.7	KMI	54.62	124	Pc	07	29.00	-1.7
MVIF	36.66	243	P	05	07.91	-0.1	ESEL	41.63	246	iPc	05	49.50	0.3		1.0s	50.00nm	5.5mb			
KZN	36.68	224	eP	05	07.90	-0.2	STS	41.87	260	eP	05	52.20	1.1	ABHA	55.53	194	iP+	07	38.10	0.7
MNS	36.71	236	P	05	08.00	-0.3	ERUA	41.93	258	iPc	05	52.50	0.9	KMTA	55.61	194	iP+	07	38.50	0.6
REVF	36.75	243	P	05	07.98	-0.7	ETOR	41.98	252	iPc	05	52.70	0.6	MIM	55.62	315	P	07	36.90	-0.6
RJF	36.84	250	iPc	05	08.90	-0.5	PTS	42.17	234	P	05	54.00	0.4	POO	55.89	158	iPc	07	39.40	-0.3
	0.6s	68.70nm			5.6mb		TTA	42.42	20	iPc	05	56.80	1.3		0.9s	28.57nm	5.3mb			
Z	20s	0.30um			4.1msz		0.8s	27.10nm	5.0mb					BNH	56.70	316	P	07	44.70	-0.6
CALN	36.86	244	P	05	09.23	-0.5	EZAM	42.60	259	eP	05	57.90	0.8	CFTV	56.97	258	iPc	07	47.70	0.3
AZI	36.90	235	P	05	10.90	1.1	GUD	42.72	254	iPc	05	59.00	0.7	HBVT	57.27	318	P	07	48.80	-0.5
DUI	36.97	234	P	05	10.60	0.0	ECHE	42.83	250	eP	05	59.90	0.8	RSNY	57.37	319	P	07	49.50	-0.6
MAO	37.05	238	P	05	11.00	-0.1	DSI	43.03	204	iPc	06	01.10	0.4		1.0s	68.69nm	5.6mb			
CAF	37.05	250	iPc	05	11.20	0.1	TOL	43.40	253	iPc	06	04.50	0.8	HYB	57.56	153	iPc	07	50.00	-1.6
	1.1s	58.60nm			5.2mb			1.1s	253.16nm	5.9mb				PNT	57.56	356	iPd	07	51.50	0.2
SDI	37.08	234	P	05	11.30	-0.1	QUE	43.71	165	eP	06	07.20	0.8		0.5s	11.00nm	5.1mb			
FRF	37.10	244	iPc	05	11.20	-0.3		1.0s	460.00nm	6.2mb				TBT	57.81	262	eP	07	53.40	0.2
	0.8s	146.90nm			5.8mb		EPLA	43.79	255	iPc	06	07.90	1.1	NEW	58.54	354	P	07	57.90	-0.3
KHL	37.21	214	iP	05	12.60	0.0	TOA	44.07	14	iPc	06	10.30	1.4		1.0s	105.00nm	5.9mb			
MAIO	37.22	174	iPc	05	14.00	1.4	EVIA	44.14	251	iPc	06	10.70	0.9	GMW	59.38	358	P	08	04.00	0.0
	0.8s	98.83nm			5.6mb		YKA	44.22	353	eP	06	07.90	-2.1	RMW	59.45	357	P	08	03.80	-0.8
		eS		10	56.00			0.8s	14.00nm	4.9mb				CHG	59.84	130	iPc	08	06.40	-1.1
RMP	37.24	236	P	05	11.00	-1.7	SVW	44.25	21	iPc	06	11.70	1.4		0.8s	24.44nm	5.4mb			
LRG	37.28	244	iPc	05	12.90	-0.1		0.9s	71.00nm	5.5mb										
	0.8s	104.95nm			5.6mb		PMR	44.36	16	iPc	06	11.10	0.0							
GAZ	37.29	203	iP	05	14.40	1.3		0.7s	52.20nm	5.5mb				WVLY	60.13	322	ePc	08	09.00	-0.3
LMR	37.35	244	iPc	05	13.20	-0.4	LZH	44.42	119	iPc	06	13.00	0.9	LON	60.16	357	P	08	09.10	-0.4
	0.9s	68.80nm			5.4mb			2.0s	75.00nm	5.2mb				TBR	60.60	318	P	08	12.00	-0.5
NEO	37.36	222	eP	05	13.80	0.0		Z	16s	0.48um	4.5msz X			LRM	60.79	350	iPc	08	13.50	-0.5
LFF	37.39	251	iPc	05	14.10	0.2			pP	06	26.50	51kmX		GBA	61.17	155	Pc	08	15.30	-1.2
	0.8s	125.95nm			5.7mb				sP	06	35.00				0.7s	83.20nm	6.0mb			
PGF	37.45	240	P	05	15.17	0.5	MBH	44.87	205	iPc	06	15.00	-0.6	BDT	61.37	131	eP	08	17.30	-0.5
LCI	37.46	229	Pc	05	14.00	-0.5	EBAN	44.93	252	iPc	06	17.10	1.0	VGB	61.38	356	iPc	08	17.70	0.0
SRN	37.46	226	iP	05	14.00	-0.5	KOT	45.11	208	eP	06	17.50	0.0	OBO	61.71	193	iP+	08	20.80	0.7
LPO	37.51	250	iPc	05	15.30	0.4	HLW	45.24	209	eP	06	19.00	0.4	TDD	61.91	193	iP+	08	22.03	0.5
	0.8s	55.05nm			5.3mb		HOL	45.34	204	iP+	06	19.90	0.6	MKL	61.99	193	iP+	08	22.69	0.7
IZM	37.51	216	eP	05	12.00	-3.1X	ENIJ	45.62	250	iPc	06	21.90	0.3	DAF	62.14	194	iP+	08	23.28	0.2
KEK	37.66	226	eP	05	15.50	-0.7	EHOR	45.66	253	eP	06	22.60	0.8	HLD	62.15	194	iP+	08	23.41	0.3
BSS	37.72	233	P	05	17.00	0.3	ECOG	45.70	251	iPc	06	23.50	1.2	KSU	62.23	194	iP+	08	23.97	0.3
TEH	37.74	184	ePc	05	19.00	1														

WDC	66.34	358	ePc	08 49.70	-0.5	BFD	124.57	104	iPKP	17 02.00	2.1	PHP	3.38	348	eSn	16 51.50	
GOL	66.41	343	P	08 50.30	-0.7		0.6s	94.00nm				LACI	3.50	339	ePn	16 11.30	0.2
	0.7s	8.19nm			5.1mb	CAN	124.67	97	ePKP	16 59.70	-0.5						
DUG	66.42	350	P	08 50.80	-0.1	MNG	137.16	74	PKP	17 22.50	-1.3	APE	3.52	111	ePn	16 13.00	-0.2
FVM	66.42	330	ePc	08 48.50	-2.2	MAW	140.82	175	ePKP	17 23.50	-6.1X	SKO	3.58	0	iPn	16 13.00	-0.2
MIN	66.56	357	ePc	08 51.60	-0.2	MCO	145.00	100	iPKPd	17 37.10	-0.1				i(Pb)	16 20.70	
ELC	66.93	329	P	08 52.50	-1.5	SPA	163.25	180	ePKP	18 00.40	-1.1				i	16 35.60	
DRV	67.35	357	ePc	08 56.10	-0.5		1.1s	28.57nm							iSn	17 03.20	
TKL	67.66	324	iPc	08 57.30	-1.4					18 52.50					i	17 13.60	
GBTN	67.73	325	iPc	08 57.80	-1.3		S.D. = 0.9	on 423 of 445 obs.				MMB	3.66	28	iPc	16 16.00	0.8
RSCP	68.02	326	P	08 58.70	-2.2							KKB	3.70	20	eP	16 16.00	0.2
JSC	68.57	322	iPc	09 03.80	-0.5		% OCT 24, 1990	15h 11m 26.36±2.06s				VAM	3.72	142	ePn	16 17.60	1.5
TNP	68.71	353	iPc	09 05.70	0.3		60.114 N ± 8.9km	4.886 E ± 17.4km				SDA	3.91	339	ePn	16 20.60	2.0
	0.9s	17.25nm			5.3mb		DEPTH = 10.0km	(geophysicist)				ULC	3.94	336	ePn	16 18.00	-1.0
CMB	68.85	356	ePc	09 06.20	0.2		SOUTHERN NORWAY	(535)							eSn	17 03.00	
PRM	68.96	323	iPc	09 05.80	-0.9		MD 2.2 (BER).					ROI	3.95	289	P	16 20.60	1.3
OLY	69.00	331	iPc	09 05.80	-1.2							EZN	4.08	68	ePn	16 20.00	-1.1
BKS	69.04	357	ePc	09 07.80	0.7	BER	0.35	39	iP	11 33.75	0.2	BCI	4.10	346	ePn	16 22.40	1.0
	0.6s	29.00nm			5.6mb							TDS	4.15	289	P	16 23.40	1.3
BRK	69.04	357	ePc	09 07.80	0.7	ASK	0.40	22	iPd	11 34.80	0.2				eSn	17 13.00	
TUL	69.17	335	iPc	09 07.50	-0.5	SUE	0.95	356	iP	11 44.26	-0.1	RZN	4.16	37	iPc	16 23.00	0.6
	1.2s	80.90nm			5.8mb							ORI	4.20	295	P	16 23.00	0.1
Z	18s	0.26um			4.5msz										eSn	17 11.50	
				09 19.00								RDO	4.21	48	ePn	16 22.10	-0.8
SIO	69.40	335	iP	09 09.40	0.0							CZI	4.21	283	P	16 24.00	1.1
PCC	69.41	358	eP	09 09.00	-0.4							CSI	4.22	291	P	16 24.50	1.4
SGS	69.50	321	P	09 09.80	-0.2	BLS2	1.32	128	iP	11 51.31	0.5	SMG	4.34	97	ePn	16 23.50	-1.2
ARN	69.55	357	iPc	09 11.30	1.0							PVY	4.34	346	ePn	16 25.10	0.2
MHC	69.56	357	ePc	09 11.20	0.7	MOL	2.78	26	eP	12 11.31	-0.4				eSn	17 17.00	
FRI	69.87	355	ePc	09 12.70	0.5	NRA0	3.36	76	Pn	12 19.00	-0.9	TTG	4.36	339	ePn	16 24.30	-0.7
LLA	70.27	356	ePc	09 15.60	0.9										eSn	17 15.00	
PRS	70.56	357	ePc	09 16.80	0.4		S.D. = 0.6	on 7 of 7 obs.				BDV	4.36	334	ePn	16 23.30	-1.8
MEO	70.61	337	iPc	09 17.00	0.2		? OCT 24, 1990	15h 28m 56.63±0.99s				MMN	4.47	291	P	16 28.40	1.7
	1.2s	72.10nm			5.7mb		24.662 N ± 7.6km	121.598 E ± 8.3km				KDZ	4.48	42	eP	16 26.00	-0.7
PRI	70.74	356	ePc	09 18.90	1.2		DEPTH = 10.0km	(geophysicist)				PLD	4.48	33	eP	16 29.00	2.2
CLC	70.98	353	eP	09 20.00	0.9		TAIWAN	(244)				NPS	4.59	132	ePn	16 29.40	1.0
ISA	71.16	354	eP	09 20.00	-0.2	TWC	0.23	103	iPc	29 01.60	0.0	IZM	4.60	88	iPn	16 27.40	-1.1
ANMO	71.22	344	iPc	09 20.40	-0.3							HCY	4.62	332	ePn	16 26.40	-2.4
	1.1s	17.41nm			5.1mb	TWZ	0.43	358	ePc	29 05.80	0.3				eSn	17 19.00	
ALO	71.22	344	ePc	09 20.70	0.0	ANP	0.53	352	eP	29 07.00	-0.3	IVA	4.62	346	ePn	16 28.50	-0.4
	1.0s	12.50nm			5.0mb										eSn	17 23.00	
GSC	71.47	353	eP	09 23.00	1.0	TWO	0.79	241	eP	29 12.10	0.0	PGB	4.66	26	eP	16 33.00	3.6X
SNG	71.47	131	eP	09 21.50	-0.7		S.D. = 0.5	on 4 of 4 obs.				ATN	4.69	269	P	16 29.20	-0.6
ABL	72.00	355	P	09 25.70	0.3		OCT 24, 1990	16h 15m 18.05±0.41s				MGR	4.87	293	P	16 32.40	0.1
SBB	72.12	354	eP	09 27.00	1.1		38.389 N ± 3.8km	21.412 E ± 2.8km				BRY	5.01	335	ePn	16 32.30	-2.0
MWC	72.59	354	eP	09 29.00	0.2		DEPTH = 16.4 ± 3.3 km								eSn	17 30.00	
TPC	72.63	352	eP	09 30.00	1.1		4.2mb (7 obs.)					SGO	5.20	297	P	16 37.90	1.0
PAS	72.67	354	eP	09 30.00	1.0		GREECE	(364)				MEU	5.30	258	P	16 34.80	-3.6X
RVR	72.79	353	eP	09 30.00	0.2		ML 4.1 (ATH).								eSn	17 34.20	
PLM	73.41	353	eP	09 35.00	1.3	EVR	0.61	30	ePg	15 28.00	-2.0	BNT	5.41	67	ePn	16 42.20	2.2
GLA	73.63	351	eP	09 36.00	1.3	VLS	0.68	252	ePg	15 29.90	-1.2	KAP	5.41	120	ePn	16 42.00	2.0
BAR	74.08	352	eP	09 39.00	1.7	AGG	0.96	48	ePc	15 35.10	-0.7	BSS	5.64	297	P	16 43.00	-0.2
IPM	74.08	131	ePc	09 39.00	1.5										eSn	17 45.60	
	0.9s	92.30nm			5.8mb	ITM	1.27	161	ePb	15 40.30	-0.8	PVL	5.67	30	iPc	16 43.00	-0.5
TIC	75.26	243	Pc	09 43.60	-0.8	IGT	1.42	324	ePd	15 44.24	1.1	JMB	5.67	42	eP	16 52.00	8.4X
	0.6s	34.50nm			5.6mb							HVAR	6.09	323	iPn	16 46.60	-2.8X
NAI	75.35	199	iPc	09 47.20	2.2	NEO	1.69	57	ePb	15 46.70	-0.3				iSn	17 56.40	
KIC	75.47	242	Pc	09 45.06	-0.5	KEK	1.82	317	ePb	15 49.20	0.2	DUI	6.26	304	P	16 51.50	-0.5
	0.6s	119.00nm			6.1mb	SRN	1.85	324	iPn	15 50.60	1.3	KHL	6.38	88	ePn	16 53.00	-0.7
LIC	75.67	242	Pc	09 46.18	-0.5	ATH	1.86	102	ePb	15 49.30	-0.2	BEO	6.47	354	ePn	16 52.00	-2.8X
	0.6s	143.00nm			6.3mb	LSK	1.87	341	ePn	15 51.50	1.8	SDI	6.70	302	P	16 58.90	0.6
KGM	77.07	130	eP	09 54.50	0.0	LIT	1.90	26	ePd	15 51.26	1.1				eSn	18 11.20	
LWI	77.18	207	iPc	09 56.10	0.7							AZI	7.08	303	P	17 04.50	1.0
LWI	77.18	207	iP+	09 56.50	1.1	KZN	1.93	8	ePg	15 52.60	2.0	BLY	7.10	335	eP	17 07.60	3.9X
PPI	78.83	133	eP	10 02.00	-2.2	VLI	2.06	144	ePn	15 53.20	0.8				eS	18 09.00	
BUL	94.86	205	iPd	11 19.00	-3.8X	KBN	2.28	348	iPnc	15 58.30	2.8X	BZS	7.22	1	eP	17 05.50	0.1
	0.6s	23.33nm			5.8mb	FNA	2.39	359	ePc	15 58.04	0.9	CMP	7.39	20	ePc	17 16.00	8.3X
ASPA	109.43	107	iPKPd	16 30.30	-1.1							TNR	7.56	15	ePc	17 10.00	-0.2
	0.4s	20.60nm										MNS	7.77	304	P	17 13.50	0.4
MRWA	110.12	125	iPKPd	16 31.90	-0.6	PLG	2.53	38	ePn	15 59.50	0.3	ASS	8.12	308	P	17 17.40	-0.7
BAL	111.62	125	ePKP	16 54.00	18.7X	VLO	2.55	325	iPn	16 00.60	1.2	ARV	8.19	311	P	17 16.70	-2.3
SIV	112.50	290	PKP	16 37.20	-0.1	GRG	2.68	16	iPd	16 02.68	1.5	VBY	8.46	329	ePnc	17 19.90	-2.8X
MUN	112.82	126	ePKP	16 36.50	-1.0	OHR	2.76	350	iPnc	16 03.30	0.9				eSn	18 52.50	
COOL	112.96	121	ePKP	16 36.60	-1.2							PTJ	8.53	333	e(Pn)	17 19.10	-4.6X
BKM	113.49	72	iPKP	16 43.50	4.3X										eSn	18 54.10	
NWAO	113.97	125	ePKP	16 38.50	-1.3	OUR	2.78	45	ePc	16 03.48	0.8	CEY	8.99	327	eP	17 27.00	-3.1X
ZOBO	114.62	297	PKP	16 42.00	-0.1	SOH	2.85	31	ePc	16 05.48	1.7				eS	19 05.00	
RKG	115.01	126	ePKP	16 41.70	0.0							SFI	9.08	311	P	17 30.00	-0.5
CNCB	115.10	297	PKP	16 44.00	1.0	KNT	3.00	22	ePd	16 07.10	1.4	PGD	9.13	310	P	17 31.00	-1.2
PPD	115.52	279	(PKP)	16 43.00	0.0							LJU	9.19	329	eP	17 29.00	-3.8X
RMQ	116.30	94	ePKP	16 43.00	-1.4										eS	19 10.00	
DZM	117.18	76	iPKPc	16 45.90	-0.4	VAY	3.06	17	iPn	16 07.30	0.7						
STK	119.34	103	iPKPc	16 49.30	-0.7							TRI	9.26	325	P	17 33.50	-0.2
	0.5s	7.00nm										VOY	9.45	326	eP	17 32.80	-3.7X
CMS	120.17	99	iPKPd	16 51.70	0.1										eS	19 16.70	
ADE	121.44	107	ePKP	16 54.00	0.0	TIR	3.18	339	ePn	16 08.70	0.3						
BWA	123.66	98	ePKP	16 58.20	-0.1	SRS	3.20										

24d 16h

PSZ 9.59 354 eP 17 43.00 4.6X
 SRO 9.69 347 eP 18 05.40 25.8X
 ZST 10.29 344 eP 18 04.50 16.6X
 FVI 10.38 325 P 17 47.50 -1.6
 CTI 10.53 320 P 17 51.50 0.2
 SOTA 11.57 323 iPnc 18 03.30 -2.2
 i 18 14.40
 iSn 19 02.70

KHC 12.13 335 eP 18 09.00 -4.0X
 LPL 13.03 308 eP 18 36.10 10.9X
 1.0s 6.00nm
 CLL 14.21 338 eP 18 44.00 3.5X
 1.9s 18.00nm 4.4mb

LBF 15.41 309 eP 18 59.70 3.5X
 LOR 15.61 310 eP 19 02.10 3.3X
 1.2s 14.90nm 4.1mb
 2 20s 0.15um 5.2Msz

AVF 15.70 308 eP 19 04.60 4.6X
 1.6s 24.90nm 4.2mb
 SSF 15.73 309 eP 19 03.40 3.1X
 1.2s 20.85nm 4.2mb

NUR 22.24 4 eP 20 14.00 -1.2
 e 20 19.00
 HFS 22.31 350 eP 20 13.00 -2.9X
 0.5s 2.60nm 3.9mb
 2 16s 0.18um 3.6Mszx

NB2 23.56 348 P 20 25.00 -2.4
 0.8s 3.10nm 3.9mb
 EKA 23.67 324 Pc 20 29.60 0.4
 0.9s 9.10nm 4.3mb

SUF 24.53 5 eP 20 35.00 -2.6X
 GBA 55.14 101 P 24 48.00 -4.0X
 S.D. = 1.2 on 80 of 106 obs.

% OCT 24, 1990 18h 48m 35.02±1.09s
 42.952 N ± 7.9km 13.573 E ± 12.0km
 DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)

ASS 0.68 280 P 48 48.00 -0.5
 eSg 48 58.30
 ARV 0.71 320 P 48 49.10 0.0
 eSg 48 59.50

MNS 0.87 230 P 48 51.50 -0.3
 eSg 49 04.50
 AZI 0.97 186 P 48 55.00 1.6
 eSg 49 06.00

SDI 1.26 172 P 48 57.50 -0.9
 eSg 49 16.20
 CRE 1.36 300 P 48 59.70 -0.4
 DUI 1.45 153 P 49 01.00 -0.3
 SFI 1.58 308 P 49 04.20 1.1
 eSn 49 23.50

PGD 1.63 305 P 49 04.00 -0.1
 S.D. = 0.9 on 9 of 9 obs.

& OCT 24, 1990 19h 11m 33.71s
 61.559 N 152.257 W
 DEPTH = 125.0km
 SOUTHERN ALASKA (2)
 <AGS-P>.

CRP 0.30 170 iP 11 50.76 0.7
 BGL 0.30 192 iP 11 50.90 0.9
 CKL 0.37 186 iP 11 50.97 -0.9
 SKT 0.55 39 iP 11 52.06 -0.7
 eS 12 06.73

SUA 0.73 97 iP 11 53.85 -0.4
 eS 12 09.68
 NKA 0.96 148 eP 11 56.58 0.6
 RDT 0.99 184 iP 11 55.42 -1.0
 RSO 1.13 193 iP 11 57.09 -0.9
 PWA 1.14 84 eP 11 57.41 -0.4
 RED 1.17 193 iP 11 57.40 -0.9
 eS 12 16.58

CUT 1.27 47 iP 11 58.61 -0.6
 PMS 1.34 102 eP 11 59.22 -0.8
 SLKM 1.45 136 eP 12 00.02 -1.2
 PLRM 1.50 87 eP 12 00.25 -1.5
 PMR 1.50 87 iPd 12 00.10 -1.6
 NNL 1.59 162 eP 12 02.67 -0.2
 GHO 1.60 81 iP 12 01.87 -1.3
 eS 12 24.55

SVW 1.68 256 iPc 12 02.50 -1.5
 KNK 1.83 93 iP 12 04.46 -1.3

HUR 1.88 40 eS 12 29.01
 eP 12 05.38 -1.0
 eS 12 29.81
 SML 1.89 81 eP 12 05.31 -1.2
 BRK 1.92 159 eP 12 05.84 -1.1
 HOM 1.93 171 eP 12 05.78 -1.2
 OPT 1.97 195 iP 12 06.84 -0.7
 eS 12 32.64
 SEW 2.01 135 eP 12 06.24 -1.6
 PDB 2.02 209 iP 12 07.17 -0.9
 CNPM 2.10 166 eP 12 07.22 -1.9
 eS 12 33.80

XLV 2.13 173 eP 12 07.78 -1.7
 TTA 2.23 310 iPd 12 09.50 -1.4
 AUE 2.28 195 eP 12 10.13 -1.2
 AUI 2.31 195 eP 12 10.66 -1.1
 SCM 2.36 81 eP 12 10.96 -1.6
 RND 2.44 39 eP 12 12.09 -1.4
 KNIM 2.52 117 eP 12 11.48 -3.0
 GLI 2.59 103 eP 12 12.82 -2.6
 MCNL 2.60 204 iP 12 14.43 -1.1
 MCK 2.67 34 eP 12 15.33 -1.1
 CDD 2.73 195 eP 12 15.48 -1.8
 MTU 2.75 123 eP 12 15.30 -2.3
 VZW 2.80 98 eP 12 16.31 -1.9
 VLZ 2.89 96 eP 12 17.39 -1.9

TOA 2.94 77 iPd 12 19.20 -0.8
 KLU 3.04 88 eP 12 19.23 -2.1
 SDG 3.31 70 eP 12 23.19 -1.7
 NEA 3.36 24 eP 12 22.81 -2.7
 WRH 3.49 31 eP 12 25.10 -2.2
 DDM 3.70 50 eP 12 30.42 0.2
 CCB 3.70 31 eP 12 28.03 -2.1
 HDA 3.74 38 eP 12 28.81 -1.9
 KDC 3.83 182 P 12 28.20 -3.6
 FBA 3.91 29 iPd 12 30.90 -2.1
 GLB 4.05 88 eP 12 33.64 -1.3
 GLM 4.08 30 eP 12 33.43 -1.9
 DOT 4.33 57 eP 12 36.93 -1.7

IMA 4.57 353 iPd 12 40.00 -2.0
 TGL 4.64 96 eP 12 41.33 -1.6
 TMW 4.65 64 eP 12 41.62 -1.4
 BALM 4.81 92 eP 12 43.53 -1.7
 DWY 6.39 61 P 13 04.70 -2.0
 HYT 7.17 89 P 13 15.70 -1.7
 INK 10.40 41 eP 13 59.00 -1.5

61 obs. associated

% OCT 24, 1990 19h 40m 56.02±1.33s
 46.241 N ± 15.9km 2.690 E ± 8.6km
 DEPTH = 10.0km (geophysicist)

FRANCE (538)

ML 1.9 (MDG).

MAF 0.09 257 Pg 40 58.80 0.2
 Sg 41 01.00
 BGF 0.33 19 Pg 41 02.90 -0.1
 Sg 41 08.60
 TCF 0.34 278 Pg 41 02.80 -0.2
 Sg 41 07.80
 AVF 0.72 40 Pg 41 10.40 0.3
 Sg 41 21.40
 SMF 0.89 63 Pg 41 12.90 -0.2
 Sg 41 25.20

S.D. = 0.3 on 5 of 5 obs.

% OCT 24, 1990 19h 57m 30.18±1.80s
 23.978 N ± 12.3km 122.816 E ± 15.0km
 DEPTH = 10.0km (geophysicist)

TAIWAN REGION (243)

TWC 1.08 306 iPd 57 50.50 0.0
 TWD 1.12 275 iPd 57 49.60 -1.6
 eS 58 00.00
 TWZ 1.58 315 eP 57 59.60 1.2
 eS 58 18.40
 ANP 1.68 316 eP 58 00.50 0.6
 eS 58 15.50
 TWO 1.83 280 ePc 58 02.00 0.0
 eS 58 22.30
 TWK 2.25 252 ePd 58 08.50 0.4
 SSE 7.24 349 Pc 59 18.10 -0.4

Z 16s 0.40um

N 12s 0.60um

E 12s 0.10um

pP 59 25.50

Lg 01 26.50
 LZH 20.34 311 Pc 02 09.00 -0.5
 2.0s 36.00nm 4.4mb
 Z 18s 0.29um 3.7Msz
 CHG 22.80 262 eP 02 35.30 1.0
 NB2 79.10 333 P 09 35.40 -0.8
 0.7s 1.10nm 4.0mb
 S.D. = 1.0 on 10 of 10 obs.

* OCT 24, 1990 20h 20m 02.07±1.10s
 24.034 N ± 9.4km 122.688 E ± 11.2km
 DEPTH = 10.0km (geophysicist)
 4.1mb (2 obs.)

TAIWAN REGION (243)

TWC 0.96 307 iPd 20 20.50 0.3
 TWD 1.00 273 iPd 20 19.70 -1.3
 eS 20 30.00
 TWZ 1.46 317 iPd 20 30.20 1.7
 eS 20 48.80
 ANP 1.56 317 eP 20 30.20 0.2
 TWO 1.71 278 ePc 20 32.00 -0.1
 eS 20 52.30
 TWK 2.16 250 ePd 20 38.50 -0.1
 eS 21 03.60
 SSE 7.16 350 Pd 21 49.00 -0.3
 0.6s 23.00nm 5.5mb X
 Z 20s 0.50um 4.0Msz
 N 10s 0.50um

eLg 24 03.00
 LZH 20.21 311 eP 24 40.00 -0.1
 2.0s 29.00nm 4.3mb
 Z 16s 0.29um 3.7Mszx

CHG 22.69 261 eP 25 06.20 1.0
 WB5 45.11 164 eP 28 21.10 0.6
 NB2 79.00 333 P 32 05.50 -2.0
 0.8s 1.20nm 4.0mb
 S.D. = 1.1 on 11 of 11 obs.

% OCT 24, 1990 20h 26m 02.75±0.89s
 40.271 N ± 14.8km 27.352 E ± 8.1km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.9 (ISK).

EDC 0.40 79 iPg 26 10.00 -0.9
 ISg 26 16.00
 BNT 0.44 79 iPg 26 10.80 -1.0
 ISg 26 15.60
 KCT 0.77 91 iPg 26 18.60 0.8
 EZN 0.91 241 ePg 26 19.80 -0.3
 CTT 1.20 43 iPn 26 24.90 -0.2
 ISK 1.52 58 ePn 26 30.00 0.0
 YLV 1.57 79 iPn 26 31.60 0.8
 IZI 1.62 87 ePn 26 31.00 -0.6
 HRT 1.85 72 ePn 26 36.00 1.2
 S.D. = 0.9 on 9 of 9 obs.

? OCT 24, 1990 20h 56m 30.10±1.85s
 19.896 N ± 22.7km 144.226 E ± 44.0km
 DEPTH = 453.5 ± 13.3 km
 4.8mb (10 obs.)

MARIANA ISLANDS (216)

GUMO 6.30 174 eP 58 08.60 0.0
 0.8s 240.12nm 5.4mb
 PJG 6.30 174 eP 58 08.70 0.1
 GUA 6.36 174 eP 58 09.30 0.1
 0.7s 142.47nm 5.2mb
 SSE 23.55 303 Pc 01 03.50 -1.2
 1.0s 19.00nm 4.6mb
 BJI 31.31 316 eP 02 13.00 0.0
 1.2s 32.00nm 4.6mb
 LZH 38.83 303 iPd 03 17.30 1.3
 1.0s 35.00nm 4.8mb
 WB5 40.69 194 eP 03 31.10 0.1
 CHG 42.64 276 eP 03 47.00 0.3
 STK 51.54 183 eP 04 54.10 -0.3
 1.8s 53.00nm 4.6mb
 GUN 53.52 290 Pd 05 09.72 0.3
 0.9s 53.00nm 4.9mb
 PKI 53.96 290 Pd 05 12.30 -0.3
 0.6s 18.00nm 4.6mb
 KKN 54.06 290 Pd 05 13.06 -0.1
 0.9s 44.00nm 4.8mb
 DMN 54.23 290 Pd 05 14.42 0.0
 GKN 54.61 291 Pd 05 16.86 -0.1

1.1s 108.00nm 5.1mb
S.D. = 0.6 on 14 of 14 obs.
* OCT 24, 1990 21h 12m 46.01s
63.431 N 150.949 W
DEPTH = 14.2km
CENTRAL ALASKA (1)
<AGS-P>.

HUR	0.75	127	eP	13	00.28	0.0
			eS	13	11.69	
RND	0.94	91	eP	13	03.72	0.1
			eS	13	18.13	
CUT	1.08	163	iP	13	05.87	0.0
			eS	13	21.77	
NEA	1.42	35	eP	13	11.90	0.7
			eS	13	30.42	
SKT	1.48	191	eP	13	11.85	-0.3
WRH	1.64	49	eP	13	12.87	-1.6
CCB	1.84	47	eP	13	15.51	-1.9
			eS	13	44.18	
PWA	1.85	164	eP	13	17.07	-0.5
GHO	1.91	150	eP	13	18.44	0.0
SUA	1.98	177	eP	13	19.48	0.0
HDA	2.02	59	eP	13	22.95	3.0
FBA	2.02	42	eP	13	22.50	2.5
PLRM	2.03	155	iP	13	20.51	0.4
PMR	2.03	155	iPd	13	20.50	0.4
SML	2.03	142	eP	13	19.50	-0.6
NCG	2.11	196	eP	13	20.81	-0.6
CGLM	2.19	193	eP	13	22.38	-0.1
BGL	2.28	198	eP	13	23.88	0.1
PMS	2.29	163	eP	13	24.84	0.9
CKL	2.33	197	eP	13	25.01	0.4
KNK	2.33	149	eP	13	25.12	0.6
TTA	2.35	260	eP	13	26.50	1.7
TOA	2.57	119	iPd	13	30.40	2.5

23 obs. associated

OCT 24, 1990 21h 47m 15.38±0.34s
6.958 S ± 5.4km 130.999 E ± 7.0km
DEPTH = 33.0km (normal)
4.9mb (12 obs.)

BANDA SEA (280)

MTN	5.85	179	iPd	48	43.00	0.8
KNA	9.01	194	iPc	49	25.60	-0.6
	0.3s	177.00nm			6.7mb	X
			eS	51	00.00	
WB5	13.25	166	eP	50	18.80	-5.1X
OIS	15.88	149	iPc	50	54.20	-4.0X
	0.2s	10.00nm			4.6mb	
			eS	53	38.00	
PMG	16.17	180	eP	51	03.00	1.1
ASPA	16.85	171	iPc	51	06.80	-3.7X
	0.5s	74.10nm			5.1mb	
	Z 18s	0.10um			4.9msz	
			eS	54	01.00	
MBL	17.78	216	iPc	51	20.30	-1.7
	0.4s	34.00nm			4.8mb	
			eS	54	27.00	
TRT	18.23	267	ePd	51	31.10	3.4X
WARB	19.57	192	eP	51	42.00	-1.6
	0.4s	20.00nm			4.8mb	
			eS	55	11.00	
KKM	19.61	311	ePd	51	45.00	0.8
NANU	21.52	222	iPc	52	05.20	1.5
	0.4s	30.00nm			5.1mb	
MEKA	22.87	210	eP	52	19.00	1.9
	0.4s	21.00nm			5.0mb	
			eS	56	29.00	
COOL	25.53	200	eP	52	43.00	0.2
RMD	25.75	141	eP	52	43.00	-1.9
			eS	57	26.00	
MRWA	26.28	211	eP	52	51.00	1.3
STK	26.70	160	iPc	52	53.30	-0.2
	0.7s	13.00nm			4.7mb	
			eS	57	42.50	
BAL	27.08	208	eP	52	58.00	1.0
KLB	27.45	205	eP	52	59.20	-1.2
			eS	58	13.00	
CMS	28.07	152	eP	53	05.00	-1.0
MUN	28.46	207	eP	53	09.00	-0.5
ADE	28.76	167	iPc	53	12.90	0.6
NWAO	28.83	205	eP	53	12.00	-0.8
BRS	28.98	137	iPc	53	14.50	0.2
BFD	31.86	162	eP	53	42.00	2.3

DZM	37.33	117	iPc	54	26.00	-0.8
BDT	39.73	308	eP	54	47.80	1.0
CHG	40.68	310	ePc	54	55.00	0.4
	0.9s	13.66nm			4.7mb	
MAT	43.79	8	eP	55	20.00	0.2
LZH	49.84	331	eP	56	07.50	-0.1
	1.5s	23.00nm			5.0mb	
SHL	49.91	312	iP	56	07.50	-0.8
THZ	50.76	140	P	56	14.50	0.0
KHZ	51.50	140	P	56	18.90	-1.1
	0.6s	36.00nm			5.5mb	
MNG	51.89	137	P	56	21.30	-1.7
PUZ	52.72	133	eP	56	27.90	-1.4
GUN	55.67	311	P	56	50.76	-0.7
PKI	55.85	310	P	56	51.62	-1.1
KKN	56.07	310	P	56	53.20	-0.9
DMN	56.10	310	P	56	53.60	-0.9
GKN	56.66	310	P	56	57.50	-0.8
	0.3s	45.00nm			6.0mb	
NDI	62.75	307	iPd	57	38.00	-2.0
QUE	71.58	305	iPd	58	36.50	0.5
MAIO	79.43	309	eP	59	21.00	0.7
SPA	83.09	180	iPc	59	39.70	0.7
	0.8s	21.25nm			5.3mb	
ALO	120.49	53	ePKP	06	06.00	0.1
LKO	136.98	277	PKP	06	38.62	0.8
CNCB	149.83	142	PKP	07	02.00	1.6
			i	07	07.30	
LPB	149.97	141	ePKP	07	02.00	1.6
			i	07	07.70	
ZOBO	150.15	141	PKP	07	02.00	1.1
			i	07	07.80	
VAO	150.16	184	ePKP	07	06.20	6.1X
			e	07	12.70	
CCH	150.47	145	iPKPd	07	09.20	8.2X
			i	07	31.00	
SIV	154.26	152	PKP	07	07.80	1.7
			i	07	15.60	
			i	07	29.80	

S.D. = 1.2 on 45 of 51 obs.

OCT 24, 1990 23h 09m 42.30±1.12s
33.544 N ± 6.4km 141.063 E ± 9.3km
DEPTH = 57.6 ± 11.8 km
5.1mb (7 obs.)

OFF EAST COAST OF HONSHU, JAPAN (229)

KAKJ	2.75	345	P	10	24.70	-0.2
			eS	11	00.10	
CHJJ	3.02	326	P	10	28.10	-0.7
			S	11	03.40	
IIDJ	3.24	307	P	10	32.60	0.7
			eS	11	11.60	
MAT	3.80	323	iPd	10	39.80	0.1
			eS	11	24.00	
MTMJ	4.04	320	P	10	44.30	1.1
NIJJ	4.05	336	P	10	42.80	-0.4
WKYJ	4.60	280	P	10	49.70	-1.3
			S	11	41.30	
TSRJ	4.64	297	P	10	51.50	0.0
YAMJ	4.69	350	eP	10	52.80	0.6
			eS	11	44.60	
OFUJ	5.55	5	eP	11	02.40	-1.8
			S	12	03.00	
TKSJ	5.86	276	P	11	08.50	-0.1
SHNJ	8.30	277	eP	11	44.20	1.7
KUMJ	8.65	266	P	11	47.40	0.0
KAGJ	8.92	257	P	11	54.80	3.7X
GUMO	20.17	169	eP	14	15.50	0.9
	1.3s	366.01nm			5.5mb	
PJG	20.17	169	eP	14	15.80	1.2
GUA	20.22	169	eP	14	16.00	0.8
PKI	47.82	278	P	18	00.00	-16.5X
WB5	53.51	188	iPc	18	58.20	-0.9
OIS	53.82	182	iPc	19	00.30	-1.0
	1.0s	19.00nm			5.1mb	
ASPA	57.30	188	ePc	19	25.40	-1.1
	0.4s	35.60nm			5.8mb	
MBL	58.04	203	eP	19	30.70	-1.0
	0.4s	6.00nm			5.1mb	
MBC	59.95	16	eP	19	45.50	1.1
WARB	60.96	195	eP	19	52.00	0.3
FORR	65.21	192	iPd	20	19.40	-0.2
BAL	67.83	203	eP	20	35.50	-0.9
KLB	68.42	201	eP	20	39.00	-1.0
NWAO	69.82	201	iPd	20	49.00	0.4

HFS	77.15	336	eP	21	30.50	-0.5
	0.4s	1.00nm			4.2mb	
NB2	77.29	337	P	21	32.10	0.3
	0.9s	4.50nm			4.5mb	
ZOBO	148.59	64	PKP	29	27.00	5.3X
LPB	148.77	64	PKP	29	32.00	10.2X
CNCB	149.03	65	PKP	29	29.00	6.6X
SIV	153.46	54	ePKP	29	30.00	1.8

S.D. = 1.0 on 29 of 34 obs.

OCT 24, 1990 23h 32m 50.82±0.41s
49.149 N ± 3.3km 6.962 E ± 4.9km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
MD 2.8 (STR).

GWF	0.47	111	Pg	33	00.76	0.4
RUP	0.56	7	ePg	33	01.59	-0.6
WLF	0.74	315	iPd	33	04.65	-0.6
			iS	33	14.43	
KTD	0.75	76	ePg	33	06.04	0.4
CDF	0.77	164	Pg	33	05.65	-0.2
			Sg	33	17.20	
WLS	0.78	160	Pg	33	06.05	0.0
			Sg	33	18.54	
ABH	0.83	27	ePg	33	06.41	-0.4
ECH	0.94	172	Pg	33	08.91	0.1
TOD	1.29	69	ePg	33	14.06	-0.6
MOF	1.30	175	Pg	33	15.88	0.9
			Sg	33	34.00	
TNS	1.45	41	ePnc	33	16.90	-0.2
			eSn	33	37.20	
FEL	1.45	151	ePg	33	16.74	-0.5
MEM	1.59	337	iP	33	19.70	0.7
ENN	1.75	338	iPn	33	23.50	2.1
	0.9s	53.00nm				
			eSn	33	46.00	
LOMF	1.80	183	Pn	33	21.75	-0.5
DOU	1.81	303	iP	33	21.30	-0.9
			iS	33	45.70	
GRF	2.83	77	ePg	33	46.00	9.0X
			eSg	34	25.60	

S.D. = 0.8 on 16 of 17 obs.

OCT 24, 1990 23h 38m 15.18±0.12s
44.117 N ± 2.7km 83.856 E ± 2.5km
DEPTH = 20.1km (13 depth phases)
5.2mb (70 obs.) 4.8msz (5 obs.)
NORTHERN XINJIANG, CHINA (332)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 19C
Centroid Location:
Origin Time 23:38:15.2 2.0
Lat 43.79N 0.15 Lon 83.99E 0.17
Dep 15.0 FIX Half-duration 1.5
Moment Tensor: Scale 10¹⁶ Nm
Mrr = 4.36 0.70 Mtt = -6.20 0.59
Mrf = 1.84 0.86 Mrt = -0.50 2.80
Mrf = -3.39 1.78 Mrt = -2.38 0.80
Principal Axes:
T Val = 6.79 P1g = 54 Azm = 83
N 0.25 35 247
P -7.03 8 342
Best Double Couple: Mo = 6.9e10 16
NP1: Strike = 106 Dip = 48 Slip = 141
NP2: 224 62 49

GKN	16.09	178	P	42	01.34	-0.7
GUN	16.25	174	P	42	04.44	0.2
	1.0s	960.00nm			5.9mb	X
NDI	16.29	201	eP	42	00.00	-4.4X
KKN	16.33	176	P	42	04.68	-0.4
	0.9s	346.00nm			5.5mb	
DMN	16.50	176	P	42	07.76	0.4
PKI	16.56	175	P	42	07.74	-0.4
	0.9s	297.00nm			5.4mb	
LZH	17.24	111	iPc	42	17.40	1.0
	1.5s	466.00nm				

24d 23h

SHL	19.63	158	e(S)	46	20.50		NB2	44.72	319	P	47	46.00	392kmX		EKA	53.79	315	P	47	38.00	-0.1
			iP	42	44.00	-1.6					46	27.90	-0.5			0.6s	4.50nm		4.6mb		
MAIO	20.13	256	eS	46	21.00		ZST	0.7s	16.10nm				5.0mb		SMF	0.8s	7.00nm		4.7mb		
	0.8s	36.60nm	iPc	42	51.00	0.3	VKA	45.11	300	iP	46	32.60	1.0			53.93	303	eP	47	38.60	-0.7
			eS	46	47.00			45.57	300	eP	46	36.50	1.2			0.8s	80.50nm		5.8mb		
BJI	24.24	88	iPc+	43	33.00	1.4	PRU	1.8s	80.60nm				5.4mb		SSF	53.93	304	eP	47	38.20	-1.1
	1.0s	224.00nm						46.05	303	ePc	46	39.70	0.7			0.4s	1.70nm		4.4mb		
Z	12s	3.01um					Z	14s	2.00um				5.2MszX		AVF	54.15	303	eP	47	40.00	-0.9
N	12s	1.91um					N	14s	0.80um							0.6s	2.70nm		4.5mb		
			eS	47	52.00		E	14s	1.80um						BGF	54.57	303	eP	47	43.30	-0.7
KMI	24.40	135	Pc+	43	34.00	0.5				S	02	52.00	35kmX			0.6s	7.20nm		4.9mb		
	2.5s	150.00nm					CLL	46.50	305	iPc	46	42.60	0.1		MAF	54.90	303	eP	47	46.00	-0.5
N	12s	1.10um						0.9s	26.00nm				5.2mb			0.4s	4.60nm		4.9mb		
			eS	47	58.00		PTJ	46.70	297	e(P)	46	39.30	-5.0X		TCF	55.08	303	eP	47	47.30	-0.6
TEH	26.14	263	eP	43	47.00	-2.8X	KHC	46.94	302	P	46	47.30	1.2			0.6s	4.50nm		4.7mb		
BOM	26.80	204	eP	43	55.20	-0.5		Z	15s	0.40um			4.5MszX		AKU	55.27	330	eP	47	50.00	-1.1
			eS	49	02.50			N	15s	0.50um						0.7s	10.96nm		5.0mb		
POO	26.86	201	iPc	43	58.10	1.7		E	16s	0.80um					LDF	55.32	307	eP	47	48.60	-0.9
	1.1s	103.80nm					VBY	47.31	297	eP	46	50.00	1.0			0.4s	2.30nm		4.6mb		
HYB	26.99	191	iPc	43	58.00	0.4	KKM	47.34	134	ePd	46	50.00	0.3		FLN	55.45	307	eP	47	49.60	-0.8
	1.0s	70.00nm					LJU	47.55	298	e(P)	46	51.00	0.1			0.4s	4.00nm		4.8mb		
			eS	48	54.00		MOX	47.56	305	eP	46	52.00	1.1		Z	20s	0.85um		4.8Msz		
CHG	28.22	149	ePc	44	09.00	0.2	CEY	47.75	298	e(P)	46	53.00	0.5		LSF	55.51	303	eP	47	49.70	-1.2
	1.0s	22.25nm					BHG	47.92	301	eP	46	55.00	1.2			0.4s	2.85nm		4.7mb		
TAB	28.74	271	eP	44	15.00	1.6	VOY	47.97	298	e(P)	46	51.90	-2.4		RJF	56.00	302	eP	47	54.30	-0.1
BDT	29.68	150	eP	44	23.00	1.2	GRF	48.16	304	iPKPc	46	56.90	1.3			0.8s	8.05nm		4.8mb		
LOE	30.60	145	eP	44	30.00	0.0				e	47	02.70	19km		Z	20s	0.65um		4.7Msz		
GBA	30.90	192	Pc	44	32.30	-0.3				e	47	07.60			LPF	56.14	306	eP	47	53.80	-1.5
	0.5s	47.10nm					TRI	48.18	298	iPc	46	55.30	-0.5			0.6s	7.20nm		4.9mb		
NST	31.54	149	eP	44	39.20	0.9	FVI	48.44	299	P	46	56.50	-1.2		MFF	56.34	305	eP	47	55.80	-1.0
SSE	32.03	101	Pd	44	41.60	-0.8	WATA	48.88	301	iPc	47	01.40	0.0			0.6s	3.60nm		4.6mb		
	1.0s	77.00nm						0.9s	46.20nm				5.5mb		LPO	56.52	302	eP	47	57.80	-0.4
Z	20s	0.90um							i	47	06.50	17km				0.6s	10.80nm		5.1mb		
N	14s	0.80um							i	47	17.50			LFF	56.66	302	eP	47	59.00	-0.1	
E	14s	0.70um							i	47	25.40				EPF	57.91	301	eP	48	06.90	-1.2
			eS	51	48.00		ORI	48.92	290	P	47	02.00	0.4			0.6s	6.30nm		4.8mb		
			eS	52	24.00		SOTA	49.16	301	iPc	47	03.60	0.1		M8C	59.00	6	ePc	48	14.50	-0.6
			eS	55	24.00			0.6s	22.60nm				5.4mb			0.7s	30.00nm		5.5mb		
DHR	32.49	248	iP+	44	47.10	0.6				i	47	08.60	17km		IMA	61.60	23	iPc	48	32.60	-0.7
KOD	34.21	191	eP	45	03.00	1.2				i	47	16.60				0.8s	21.00nm		5.3mb		
RYD	35.91	250	iP+	45	16.50	0.4	TDS	49.19	290	P	47	04.50	0.8		TOL	62.40	300	eP	48	38.00	-0.8
SUF	37.53	320	iP	45	29.30	0.1	CTI	49.38	299	P	47	02.50	-2.7X		TTA	63.17	26	iPc	48	43.50	-0.1
BBTK	37.73	282	iPd	45	32.00	0.8	OGA	49.42	300	eP	47	05.50	-0.1			0.8s	3.80nm		4.6mb		
SOD	37.76	328	iP	45	31.20	0.1	SGO	49.46	291	P	47	07.50	1.8		FBA	64.10	22	iPc	48	49.20	-0.4
KEV	38.05	332	iP	45	34.00	0.5	MGR	49.49	290	P	47	06.50	0.5			0.7s	18.90nm		5.4mb		
	0.6s	28.70nm					DUI	49.51	293	P	47	06.00	-0.2		INK	64.46	14	iPc	48	51.20	-0.7
NUR	38.25	317	iP	45	35.20	0.0	CZI	49.54	289	P	47	06.30	0.0			0.6s	20.00nm		5.4mb		
	0.8s	22.00nm					ARV	49.67	296	P	47	08.00	0.6		SVW	64.61	28	iPc	48	53.80	0.7
			i	45	50.80	62kmX	BSS	49.69	292	P	47	08.00	0.5			0.8s	13.00nm		5.1mb		
AFIF	38.66	252	ePc	45	43.10	3.9X	WTS	49.83	308	eP	47	09.00	0.6		PMR	66.30	25	iPc	49	02.80	-1.0
YONJ	38.72	86	eP	45	36.80	-2.7X		0.9s	10.00nm				4.8mb			0.9s	21.50nm		5.3mb		
CFR	38.97	292	eP	45	42.00	0.6	SDI	49.92	293	P	47	06.50	-2.8X		T0A	66.76	23	iPc	49	06.80	-0.1
MML	39.26	270	eP	45	51.00	7.0X	AZI	50.04	294	P	47	11.50	1.4			1.2s	170.00nm		6.1mb		
ZNT	39.63	270	eP	45	55.00	7.9X	OSS	50.04	300	ePc	47	10.40	0.0		IFR	66.93	295	iP	49	07.50	-1.0
TKSJ	39.73	87	P	45	47.80	-0.1	ASS	50.05	295	P	47	11.00	0.7		LWI	67.34	243	iP-	49	10.70	-0.6
TSRJ	40.36	84	P	45	53.00	0.0	SFI	50.18	297	P	47	12.50	1.3		KDC	68.19	29	P	49	15.50	-0.2
WKYJ	40.72	86	P	45	56.00	-0.1	MNS	50.35	294	P	47	11.40	-1.2			0.9s	95.83nm		5.9mb		
BNT	40.91	285	eP	45	59.00	1.5	ATN	50.51	288	P	47	12.50	-1.3		JAY	68.70	118	ePd	49	19.20	-0.4
CMP	41.02	293	ePc	46	04.00	5.6X	VDL	50.55	300	ePd	47	14.30	0.0		BCAD	69.32	256	iPc	49	22.50	-0.9
MBH	41.09	267	eP	46	06.00	7.0X	SLE	50.59	302	ePd	47	14.80	0.5			0.6s	124.00nm		6.2mb		
TNR	41.39	294	ePc	45	52.00	-9.4X	RMP	50.60	294	P	47	14.50	0.0				i	50	51.40	404kmX	
MAT	41.47	81	(P)	46	00.00	-2.2	LLS	50.67	301	ePd	47	14.90	-0.3		YKA	72.71	9	eP	49	41.10	-2.0
IIDJ	41.76	83	eP	46	04.20	-0.4	ENN	50.84	307	eP	47	16.00	-0.1			0.8s	16.10nm		5.1mb		
UPP	41.81	316	iP	46	04.50	-0.1		0.9s	14.00nm				4.9mb		MBL	72.84	145	eP	49	43.70	-0.6
IPM	42.18	154	ePc	46	09.80	1.6	BDI	50.93	297	P	47	19.60	2.6X		PMG	78.07	116	iPd	50	14.50	0.3
	0.9s	31.60nm					TMA	51.09	300	ePd	47	17.50	-0.8			1.0s	60.00nm		5.6mb		
CHJJ	42.26	81	eP	46	09.30	0.6	PII	51.13	297	P	47	13.00	-5.4X		KRI	78.26	233	iPc	50	19.20	3.8X
KRA	42.74	301	iPd	46	13.00	0.7	VAI	51.26	300	P	47	17.00	-2.4		SCM	78.32	343	eP	50	15.00	-0.1
	0.8s	42.00nm					BOB	51.33	299	P	47	25.50	5.4X		WB5	78.66	132	iPc	50	17.00	-0.4
Z	18s	1.60um					GIB	51.58	289	P	47	07.50	-14.6X		MRWA	78.88	152	eP	50	17.00	-0.2
E	18s	2.20um					MMK	51.68	301	ePd	47	22.50	-0.4		WARB	80.18	142	eP	50	25.50	0.0
			e	46	19.00	20km	DIX	52.01	301	ePd	47	25.60	0.2		BAL	80.20	152	eP	50	24.50	-0.9
ABHA	42.97	246	eP	46	17.60	2.7X	EMS	52.31	301	ePc	47	27.20	-0.4		MUN	81.29	153	eP	50	30.00	-1.1
KAKJ	43.03	81	P	46	14.00	-0.9	PGF	52.67	296	eP	47	29.80	-0.4		FFC	81.41	3	iPc	50	31.10	-0.5
BZS	43.15	295	eP	46	15.50	-0.2		1.2s	53.55nm				5.3mb			0.9s	95.00nm		5.8mb		
HFS	43.70	317	eP	46	19.50	-0.6	LPG	52.69	300	iPc	47	30.70	0.1		KLB	81.46	151	eP	50	31.00	-1.0
	0.7s	14.90nm						0.5s	23.30nm				5.4mb		ASPA	81.54	135	iPc	50	32.60	0.0

MCW	84.67	17 P	50 49.30	0.8	SHL	19.62	158 iP	51 26.20	-1.6			e	56 52.00	
PNT	84.71	15 ePc	50 49.00	0.3			eS	55 04.00		NB2	44.73	319 P	55 09.80	-0.8
	0.8s	38.00nm		5.7mb	MAIO	20.14	256 eP	51 34.00	0.9		1.3s	45.70nm		5.2mb
		pP	50 56.00	22km			80.53nm		5.1mb	NPS	44.87	279 eP	55 11.80	-0.3
FORR	84.85	143 eP	50 49.00	-0.3	KMI	24.39	135 Pc	52 16.00	0.3	ATH	44.90	284 eP	55 13.70	1.4
LIC	84.91	274 P	50 50.18	0.0		2.0s	70.00nm		4.0mb	ZST	45.12	300 eP	55 14.30	0.4
SES	84.98	10 ePc	50 49.20	-0.8			pP	52 23.00	25km			e	57 05.80	646kmX
	0.7s	33.00nm		5.7mb	POO	26.86	201 iPc	52 42.60	4.0X	KZN	45.20	288 eP	55 14.70	0.0
8FT	85.14	227 eP	50 52.00	0.8	HYB	27.00	191 eP	52 40.00	0.2	VKA	45.58	300 iPc	55 18.60	1.0
		S	59 34.00			1.0s	45.00nm		5.1mb		1.2s	71.60nm		5.5mb
CTA	85.59	123 iPc	50 53.10	-0.3			e	53 03.50	107kmX			i	55 24.90	21km
	1.0s	53.00nm		5.7mb	CHG	28.22	149 ePc	52 56.20	5.3X	EVR	45.80	286 eP	55 19.20	-0.3
GMW	85.75	18 P	50 55.10	1.2		1.0s	17.25nm		4.8mb	VAM	45.80	280 eP	55 18.90	-0.5
		pP	51 02.00	22km	TAB	28.76	271 e(P)	52 57.00	1.2	BRN	46.02	307 eP	55 22.50	1.6
C8M	86.02	341 P	50 55.00	-0.2	BDT	29.68	150 eP	53 05.00	1.0	VLI	46.05	283 eP	55 18.80	-2.5
RMW	86.04	17 P	50 56.20	0.7		1.0s	78.00nm		5.5mb	PRU	46.06	303 Pc	55 21.50	0.2
		pP	51 02.40	19km	LOE	30.59	145 eP	53 12.00	-0.1		1.0s	18.80nm		5.0mb
SLR	86.12	228 eP	50 56.50	0.5	GBA	30.91	192 Pc	53 14.20	-0.6	Z	14s	1.80um		5.2MsZx
	1.8s	68.18nm		5.6mb		0.6s	18.90nm		5.1mb	N	14s	0.30um		
		e	59 26.50		NST	31.54	149 eP	53 21.80	1.4	E	14s	1.00um		
DPW	86.36	15 P	50 57.20	0.2	SSE	32.01	101 iPc	53 24.50	0.0			e	55 27.50	20km
		pP	51 04.30	22km		1.0s	48.00nm		5.4mb	MOL	46.08	321 iPd	55 21.54	0.3
8PI	86.61	228 eP	50 58.00	-0.5			pP	53 30.00	19km	CLL	46.51	305 iPc	55 24.80	0.0
		e	59 42.00		DHR	32.50	248 ePc	53 29.50	0.7		0.9s	43.00nm		5.4mb
LON	86.72	17 P	50 59.30	0.6	RYD	35.93	250 iP+	53 58.60	0.2			i	55 35.80	38kmX
		pP	51 04.30	16km	MJMA	36.08	253 iP+	53 59.10	-0.6	ITM	46.53	284 eP	55 23.80	-1.4
BNH	88.94	342 P	51 09.70	0.3	QASM	37.15	255 ePc	54 09.00	0.4	PTJ	46.71	297 iPc	55 26.60	0.0
LRM	89.29	11 ePc	51 11.10	-0.3	SUF	37.54	320 iP	54 11.50	0.0	PPJ	46.77	157 eP	55 26.00	-1.1
		e	51 18.10	22km	B8TK	37.74	282 iP	54 15.00	1.4	KHC	46.95	302 P	55 28.60	0.2
L8FM	91.83	19 P	51 23.70	0.5	SOD	37.77	328 iP	54 13.30	0.0			e	55 35.30	22km
		pP	51 31.20	23km	KEV	38.06	332 iP	54 15.80	0.1	VLS	46.99	286 eP	55 27.30	-1.5
FHC	91.83	21 eP	51 25.00	2.1		0.7s	49.40nm		5.4mb	HYA	47.06	320 iPd	55 29.00	0.0
RMO	91.94	126 iP	51 23.00		NUR	38.26	317 iP	54 17.20	-0.3	VBY	47.32	297 ePc	55 31.90	0.6
	1.0s	118.00nm		6.2mb X		1.0s	50.00nm		5.3mb	WET	47.37	302 iPc	55 32.30	0.6
STK	92.15	134 iPc	51 23.80	-0.4	AFIF	38.67	252 iP+	54 25.30	3.8X		1.3s	34.00nm		5.2mb
	1.0s	14.00nm		5.3mb	GLH	38.95	270 eP	54 26.00	2.4	HOF	47.54	304 eP	55 33.10	0.1
WVLY	92.37	347 P	51 25.50	0.1	KTk1	39.25	330 iPc	54 25.63	-0.1	LJU	47.57	298 ePd	55 33.50	0.3
WDC	92.40	20 eP	51 25.80	0.3	HRT	39.52	285 eP	54 28.00	-0.3	MOX	47.57	305 iPc	55 33.50	0.3
ORV	93.62	19 eP	51 31.70	0.5	SNG	39.60	153 eP	54 30.80	1.6		1.3s	36.00nm		5.3mb
DUG	94.74	13 P	51 36.90	0.4	YLV	39.83	284 iP	54 32.00	1.1	ASK	47.72	319 iPc	55 34.50	0.3
DAU	94.76	12 P	51 37.60	0.8	ISK	39.85	285 eP	54 28.00	-3.0X	CEY	47.76	298 eP	55 35.00	0.2
BRS	95.00	124 iPc	51 38.10	0.7	IZI	39.85	284 eP	54 32.00	0.9	KBA	47.90	300 iPd	55 34.10	-1.9
CMB	95.33	19 eP	51 40.70	1.6	BCK	40.29	279 eP	54 34.00	-0.8			i	55 48.20	53kmX
ARN	95.71	20 P	51 41.60	0.7	KMSA	40.33	247 eP	54 35.00	-0.2	8HG	47.93	301 eP	55 36.80	0.7
TNP	95.99	17 P	51 42.50	0.2	TSRJ	40.34	84 P	54 34.60	-0.5		1.3s	69.00nm		5.5mb
	0.8s	5.39nm		5.0mb	PRNI	40.70	267 iPc	54 39.70	1.6	VOY	47.98	298 e(P)	55 36.00	-0.6
GOL	96.15	7 P	51 43.10	0.0	TRO	40.83	331 eP	54 38.79	0.1	GRF	48.17	304 ePc	55 38.80	0.9
	0.8s	6.32nm		5.1mb	BNT	40.92	285 iP	54 41.50	1.7		1.2s	56.00nm		5.5mb
		pP	51 49.50	20km	EDC	40.97	285 iP	54 41.00	0.8	Z	16s	2.00um		5.2MsZx
FRI	96.49	19 eP	51 45.30	1.0	JMB	41.01	280 eP	54 52.00	11.5X			e	55 45.20	21km
PRI	97.07	20 eP	51 48.80	1.7	MBH	41.10	267 iPc	54 43.00	1.6			e	55 53.60	
ALO	100.76	9 ePd	52 04.00	0.3	MTMJ	41.15	81 eP	54 49.10	7.3X	TRI	48.19	298 iPc	55 37.30	-0.8
	1.5s	9.03nm		5.1mb	HOL	41.26	266 ePc	54 44.10	1.4	FVI	48.45	299 P	55 39.50	-0.5
SIV	139.19	302 ePKP	57 43.00	0.3	TNR	41.40	294 ePc	54 45.00	1.3	WATA	48.89	301 iPc	55 43.80	0.1
ZOBO	143.50	311 PKP	57 48.80	-2.2	8ADA	41.72	265 ePc	54 47.90	1.4		0.8s	54.00nm		5.6mb
LPB	143.70	310 PKP	57 51.00	-0.1	KDZ	42.13	288 iPc	54 51.00	1.3			i	55 47.80	13km
CNCB	143.86	310 PKP	57 50.00	-1.6	IPM	42.18	154 ePc	54 51.50	1.2			i	55 57.90	
NNA	143.93	327 ePKP	57 50.30	-0.8		0.9s	29.80nm		5.0mb	ORI	48.93	290 P	55 45.00	1.1
	0.8s	11.19nm					e	54 53.90	8kmX	ROI	49.09	289 P	55 46.00	0.9
ARE	145.43	315 ePKP	57 55.00	1.1	EZN	42.26	285 eP	54 51.70	1.0	SOTA	49.17	301 iPc	55 45.90	0.1
	S.D. = 0.9	on 185 of 203 obs.			RZN	42.59	288 iPc	54 56.00	2.3		0.6s	68.90nm		5.9mb
					PGB	42.62	290 iPc	54 56.00	2.2			i	55 50.20	14km
					KRA	42.75	301 iPc	54 55.00	0.4			i	55 57.50	
						0.9s	75.00nm		5.4mb			i	56 37.00	
					LOF	42.78	329 iPc	54 53.97	-0.7	CSI	49.18	290 P	55 46.50	0.7
					SMG	42.84	282 eP	54 56.40	0.9	TDS	49.20	290 P	55 47.00	1.0
					KAP	43.62	279 eP	55 01.90	0.0	MMN	49.33	290 P	55 48.50	1.6
					KKB	43.63	289 iPc	55 03.00	1.0	CTI	49.39	299 P	55 46.90	-0.6
					HFS	43.71	317 eP	55 01.70	-0.7	OCA	49.43	300 iPc	55 47.70	-0.2
						1.2s	62.60nm		5.3mb		1.0s	36.00nm		5.4mb
					Z	18s	0.39um		4.4MsZ	SGO	49.47	291 P	55 48.50	0.5
							LR	01 30.40		MGR	49.50	290 P	55 47.00	-1.3
					NSS	43.76	324 iPd	55 02.00	-0.6	DUI	49.52	293 P	55 49.20	0.7
					PLG	44.02	287 eP	55 05.70	0.6	GRI	49.55	289 P	55 49.20	0.5
					APE	44.05	282 eP	55 05.80	0.3		0.6s	49.50nm		5.7mb
					VAY	44.21	289 iPc	55 07.50	0.9	CZI	49.55	289 P	55 49.20	0.6
						0.8s	68.00nm		5.6mb	ARV	49.68	296 P	55 49.50	-0.2
					SRO	44.50	299 eP	55 05.50	-3.4X	BSS	49.70	292 P	55 49.00	-0.8
							i	55 09.50	13km	AQU	49.90	294 P	55 51.50	0.1
					NEO	44.64	286 eP	55 10.00	-0.2	SDI	49.93	293 Pd	55 51.60	0.0
					RGS	44.68	322 eP	55 10.40	0.2	AZI	50.05	294 P	55 53.50	1.1
					SKO	44.70	290 eP	55 09.70	-1.0	OSS	50.05	300 ePc	55 52.60	-0.1
					KSP	44.71	304 iPc	55 10.80	0.2	ASS	50.06	295 P	55 53.00	0.4
						1.0s	31.00nm		5.2mb	SFI	50.20	297 P	55 54.50	0.8
							e	01 49.50	21km	SAL	50.29	299 P	55 50.70	-3.5X
							i	55 17.20			0.1s	121.80nm		6.8mb X
										SAX	50.30	301 ePd	55 54.00	-0.7

24d 23h

ATN	50.53	288	Pd	55	55.60	-0.5	GUD	62.03	301	eP	57	18.00	-0.8	PRI	97.06	20	eP	00	31.00	1.7	
VDL	50.56	300	ePc	55	56.30	-0.2	EVIA	62.16	298	eP	57	19.50	-0.1	ALO	100.75	9	ePdiff	00	46.00	0.1	
SLE	50.60	302	ePd	55	57.00	0.4	TOL	62.41	300	iPc	57	21.00	-0.1		1.0s	3.00nm			4.8mb		
RMP	50.62	294	P	55	45.00	-11.8X		1.0s	40.00nm			5.5mb		PDOR	122.18	285	ePKP	05	50.00	-2.5	
LLS	50.68	301	ePd	55	57.00	-0.5	TTA	63.16	26	iPc	57	25.60	-0.2	JFO	131.32	280	e(PKP)	06	10.30	0.4	
FEL	50.85	303	eP	56	14.41	15.8X		1.2s	29.40nm			5.3mb		PPD	137.12	286	ePKP	06	21.60	0.7	
ENN	50.85	307	eP	55	59.00	0.6	EBAN	63.25	298	eP	57	26.50	-0.2	SIV	139.20	302	PKP	06	25.20	0.3	
	1.0s	19.00nm			5.0mb		ECOG	63.64	297	eP	57	28.00	-1.4	ZOBO	143.51	311	PKP	06	30.00	-3.2	
							FBA	64.09	22	iPc	57	31.40	-0.4		2	20s	0.20um		4.9Msz		
BDI	50.94	297	Pd	55	59.30	0.0		1.2s	76.30nm			5.7mb		LPB	143.71	310	PKP	06	32.00	-1.3	
CDF	51.06	304	eP	55	59.30	-0.9	INK	64.45	14	iPc	57	33.60	-0.4	CNCB	143.87	310	PKP	06	32.00	-1.8	
	0.8s	5.35nm			4.5mb			0.7s	45.00nm			5.7mb		ARE	145.44	315	iPKPd	06	37.00	0.9	
TMA	51.10	300	ePc	55	59.50	-1.1	SVW	64.60	28	iPc	57	36.10	0.9		S.D. = 0.9	on 229 of 248 abs.					
PII	51.14	297	P	56	00.50	-0.2		0.9s	21.00nm			5.3mb									
VAI	51.27	300	P	56	01.00	-0.6	EPRU	64.89	298	eP	57	37.00	-0.4								
BOB	51.35	299	P	56	02.00	-0.4	EJIF	65.35	297	eP	57	40.00	-0.3								
BSF	51.60	303	eP	56	03.60	-0.8	PMR	66.30	25	iPc	57	45.20	-0.8								
	0.6s	3.60nm			4.5mb			0.8s	29.30nm			5.5mb									
MMK	51.69	301	ePd	56	04.70	-0.5	TOA	66.75	23	iPc	57	49.10	0.1								
HAU	51.79	303	eP	56	04.80	-0.9		0.9s	155.50nm			6.2mb									
	0.8s	9.40nm			4.8mb		IFR	66.94	295	iP	57	51.00	0.3								
	20s	0.70um			4.7Msz		LWI	67.35	243	iPd	57	53.50	-0.1	GMW	0.07	247	Pc	15	25.40	-0.5	
DOU	51.91	306	P	56	12.20	5.8X	KDC	68.18	29	iPc	57	58.00	0.1	PGW	0.25	14	Pd	15	27.92	-0.2	
								0.8s	108.50nm			6.0mb		HDW	0.26	286	Pc	15	27.58	-0.7	
DIX	52.02	301	ePc	56	07.40	-0.3	AVE	68.56	296	iP	58	08.00	7.3X	SPW	0.30	94	P	15	29.27	0.4	
EMS	52.32	301	ePd	56	09.50	-0.4						59	14.50	290kmX	MEW	0.38	176	P	15	30.33	0.2
PGF	52.68	296	iPc	56	12.20	-0.3	BCAO	69.34	256	iPc	58	04.70	-1.0	BLN	0.47	336	Pd	15	30.77	-1.0	
	0.8s	26.85nm			5.2mb			0.6s	156.00nm			6.3mb X									
LPG	52.70	300	iPc	56	13.29	0.4						58	14.50	31km	GHW	0.61	152	P	15	33.09	-0.9
	0.8s	62.95nm			5.6mb							59	38.80		RMW	0.61	101	Pc	15	33.50	-0.7
LPL	52.70	300	iPc	56	12.90	0.1	YKA	72.71	9	eP	58	24.20	-1.0								
BNI	52.96	300	P	56	14.20	-0.4		0.9s	35.40nm			5.4mb		HTW	0.66	70	P	15	34.13	-0.9	
SBF	53.05	298	iPc	56	14.80	-0.4	MBL	72.83	145	eP	58	26.00	-0.4								
	1.0s	32.00nm			5.2mb		KRI	78.27	233	iPc	59	01.00	3.4X	CPW	0.68	207	Pd	15	34.19	-1.1	
LOR	53.63	304	eP	56	18.00	-1.3						59	07.80	22km							
	0.8s	8.05nm			4.8mb		SCH	78.33	343	eP	58	57.00	-0.3	GSM	0.71	121	PKc	15	35.17	-0.8	
	20s	0.50um			4.6Msz		WB5	78.65	132	iPc	58	59.10	-0.4								
LBF	53.69	303	eP	56	18.60	-1.2	WARB	80.17	142	eP	59	07.50	-0.1	OHW	0.76	8	P	15	35.48	-1.1	
	0.8s	5.35nm			4.6mb		FFC	81.40	3	iPc	59	13.70	0.0	JCW	0.80	39	Pd	15	36.25	-1.1	
EKA	53.80	315	P	56	20.00	-0.4		0.9s	118.00nm			5.9mb		OBH	0.84	253	P	15	37.15	-0.8	
	0.9s	16.60nm			5.0mb		BUL	81.48	231	iPc	59	10.40	-4.4X	APW	0.93	178	Pd	15	38.09	-1.4	
SMF	53.94	303	iPc	56	20.60	-1.0						59	19.00	27km	CMW	0.93	24	Pd	15	38.56	-1.1
	1.0s	22.00nm			5.1mb		ASPA	81.53	135	iPc	59	14.60	-0.2	FMW	0.95	133	Pd	15	38.77	-1.2	
SSF	53.94	304	eP	56	20.40	-1.2		0.8s	35.70nm			5.5mb		LMW	0.95	163	Pd	15	38.81	-1.1	
	0.8s	6.70nm			4.7mb		DIS	82.07	129	iPc	59	17.10	-0.6	REMR	0.95	142	Pd	15	38.75	-1.3	
AVF	54.16	303	iPc	56	22.10	-1.1		1.0s	32.00nm			5.3mb		ONR	1.02	227	P	15	40.28	-0.7	
	0.8s	13.45nm			5.0mb		LKO	83.06	276	Pc	59	21.98	-1.0	LON	1.02	144	P	15	39.62	-1.5	
BGF	54.58	303	eP	56	25.40	-0.9		0.8s	22.50nm			5.4mb		OOO	1.03	280	P	15	41.86	0.6	
	0.8s	10.75nm			4.9mb		KIC	84.63	274	Pc	59	30.78	-0.2	MCW	1.11	355	P	15	41.13	-1.5	
MAF	54.91	303	eP	56	28.40	-0.4		0.9s	20.00nm			5.4mb		CZM	1.15	174	Pd	15	41.82	-1.4	
	0.8s	14.80nm			5.1mb		TIC	84.63	274	P	59	30.62	-0.4	BMW	1.16	199	P	15	41.98	-1.6	
TCF	55.09	303	iPc	56	29.50	-0.6		1.1s	38.00nm			5.5mb		KOSW	1.17	163	Pd	15	42.34	-1.3	
	1.0s	24.00nm			5.2mb		MCW	84.66	17	P	59	31.50	0.8	WPW	1.17	138	P	15	42.69	-1.1	
AKU	55.28	330	iP	56	32.40	1.3	PNT	84.70	15	ePc	59	31.00	0.2	RPW	1.18	42	P	15	42.59	-1.2	
	0.9s	20.17nm			5.2mb			0.8s	46.00nm			5.8mb		GLK	1.25	143	Pd	15	43.88	-1.1	
LDF	55.33	307	eP	56	30.60	-1.2						59	38.00	22km	TDL	1.27	165	Pd	15	43.94	-1.2
	0.6s	9.00nm			5.0mb		LIC	84.93	274	Pc	59	32.20	-0.2	ERK	1.29	169	P	15	43.92	-1.6	
FLN	55.46	307	eP	56	31.40	-1.3		20s	0.15um			4.4Msz		TWW	1.31	109	P	15	45.62	-0.1	
	0.6s	9.00nm			5.0mb		SES	84.97	10	ePc	59	31.50	-0.7	MBW	1.32	23	P	15	45.03	-0.9	
	20s	0.60um			4.7Msz		CTA	85.58	123	iPc	59	35.20	-0.3	STD	1.38	166	Pd	15	45.51	-1.1	
LSF	55.52	303	iPc	56	31.90	-1.3		1.0s	45.00nm			5.6mb		SOSW	1.39	164	P	15	45.73	-1.1	
	0.7s	7.70nm			4.8mb		GMW	85.74	18	P	59	37.30	1.2	SHW	1.42	167	P	15	46.54	-0.7	
GRR	55.86	307	eP	56	34.50	-1.1						59	44.00	21km	REMW	1.42	166	P	15	46.74	-0.6
	0.6s	7.20nm			4.9mb		CBM	86.02	341	P	59	37.30	-0.1	ESD	1.43	165	P	15	46.78	-0.6	
RJF	56.01	302	eP	56	36.50	-0.2	RMW	86.04	17	P	59	38.30	0.7	TBM	1.48	105	P	15	48.15	0.1	
	0.8s	13.45nm			5.0mb		NEW	86.17	14	P	59	38.80	0.6	LVP	1.52	173	P	15	47.90	-0.8	
	20s	0.40um			4.5Msz		DPW	86.36	15	P	59	39.50	0.3	CDFW	1.53	163	Pd	15	48.05	-0.7	
LPF	56.15	306	eP	56	36.30	-1.3		LON	86.71	17	P	59	41.20	0.3	NAC	1.52	123	P	15	48.87	0.2
	0.6s	7.20nm			4.9mb		BNH	88.94	343	P	59	51.80	0.2	NLO	1.58	200	P	15	49.00	-0.5	
MFF	56.35	305	eP	56	37.70	-1.4	LRM	89.28	11	ePc	59	53.30	-0.2	MTMW	1.59	168	P	15	49.18	-0.5	
	0.6s	7.20nm			4.9mb		HBVT	89.54	344	P	59	54.20	-0.2	EBG	1.59	114	P	15	50.41	0.7	
LPO	56.53	302	eP	56	39.90	-0.5	RSNY	89.65	345	P	59	55.30	0.4	ETW	1.60	88	Pc	15	49.95	0.1	
	0.8s	16.10nm			5.1mb		LBFM	91.82	19	P	00	06.00	0.7	ASR	1.61	152	Pd	15	49.67	-0.4	
ETA	56.65	313	eP	56	55.00	13.8X	FHC	91.82	21	eP	00	07.00	1.9	NLW	1.66	72	P	15	51.17	0.4	
FFF	56.67	302	eP	56	41.00	-0.4	WDC	92.39	20	eP	00	08.20	0.5	WTV	1.85	85	P	15	53.82	0.3	
	0.8s	20.15nm			5.2mb		ORV	93.62	19	eP	00	13.70	0.4	MXC	1.92	121	P	15	54.86	0.5	
ECP	56.99	313	eP	56	55.40	11.8X	DUG	94.73	13	P	00	19.50	0.9	DHW2	2.01	77	P	15	55.43	-0.3	
ECB	57.12	313	eP	56	54.30	9.8X	DAU	94.75	12	P	00	19.60	0.6	EPH	2.11	95	P	15	56.71	-0.5	
EPF	57.92	301	eP	56	49.20	-1.1	CMB	95.33	19	eP	00	22.50	1.2	SAW	2.23	86	P	15	57.96	-0.9	
	0.9s	18.00nm																			

OFF EAST COAST OF HONSHU, JAPAN (229)

MAT	5.49	235	eP	43	22.00	0.4
			eS	44	28.00	
LZH	31.55	276	P	48	21.50	0.0
INK	51.05	28	ePc	51	01.20	0.7
WB5	60.04	190	eP	52	05.50	-0.4
HFS	72.31	336	eP	53	23.20	-0.5
	0.4s	1.50nm			4.3mb	
NB2	72.33	338	P	53	23.70	-0.2
	0.7s	2.30nm			4.3mb	
SIV	147.85	49	PKP	01	44.80	4.4X
	S.D. = 0.6	on	6 of	7 obs.		

OCT 25, 1990 00h 59m 01.75 ± 0.70s
 51.552 N ± 6.7km 7.480 E ± 4.1km
 DEPTH = 10.0km (geophysicist)
 GERMANY (543)
 ML 3.2 (LDG), 3.0 (BNS).

WTS	0.61	317	iPgd	59	14.30	0.3
	0.8s	113.00nm				
BNS	0.62	198	ePg	59	15.40	1.2
	0.3s	530.00nm				
		iSg	59	26.20		
STB	1.04	203	P	59	22.90	1.5
KOE	1.14	172	ePd	59	22.90	-0.2
KLL	1.17	220	iPd	59	24.90	1.3
		iS	59	43.90		
ENN	1.26	232	iPgd	59	26.50	1.4
	0.4s	35.00nm				
		iSg	59	44.90		
MEM	1.33	225	P	59	27.60	1.4
		S	59	47.80		
TNS	1.47	155	ePnc	59	28.40	0.1
		eSn	59	46.90		
ABH	1.67	179	ePn	59	31.82	0.6
RUP	1.87	188	ePn	59	35.37	1.2
TOD	2.12	156	ePn	59	37.51	-0.3
SNF	2.27	244	P	59	41.00	1.2
DOU	2.34	233	P	59	42.40	1.6
MOX	2.76	108	ePg	59	47.00	0.1
		iSg	00	28.00		
GRF	3.02	127	ePn	59	50.70	0.2
		ePg	00	00.00		
		e(Sn)	00	26.50		
		eSg	00	42.10		
HOF	3.05	112	ePn	59	50.00	-0.9
CDF	3.15	182	Pn	59	51.70	-0.7
		Sg	00	40.90		
HAU	3.63	192	Pn	59	58.10	-1.0
		Sg	00	58.20		
BSF	3.75	187	Pn	00	00.00	-1.0
		Sg	01	01.70		
KHC	4.60	119	eP	00	14.50	1.6
		eSg	01	24.10		
PRU	4.75	107	ePg	00	15.00	0.0
		eSg	01	34.50		
LOR	4.90	210	Pn	00	16.00	-1.1
		Sn	01	10.60		
		Sg	01	38.00		
LBF	5.11	208	Pn	00	19.60	-0.6
		Sn	01	16.00		
SSF	5.19	212	Pn	00	20.20	-1.1
		Sg	01	46.60		
SMF	5.46	207	Pn	00	23.20	-1.9
LDF	5.72	242	Pn	00	28.20	-0.5
FLN	5.83	244	Pn	00	29.40	-0.8
		Sn	01	34.80		
BGF	5.85	213	Pn	00	29.40	-1.2
		Sn	01	33.50		
		Sg	02	08.00		
GRR	6.24	243	Pn	00	35.00	-1.0
		Sn	01	43.50		
LPF	6.55	241	Pn	00	39.00	-1.4
	S.D. = 1.1	on	30 of	30 obs.		
OCT 25, 1990 01h 03m 33.97 ± 2.38s						
40.797 N ± 19.0km 28.191 E ± 15.6km						
DEPTH = 10.0km (geophysicist)						
TURKEY (366)						
MD 2.1 (ISK).						
BNT	0.49	205	ePg	03	43.90	0.0
		eSg	03	51.40		
ISK	0.71	68	ePg	03	47.50	-0.5
YLV	0.93	104	iPg	03	51.50	-0.2

IZI	1.08	115	iPn	04	06.00	-0.3
HRT	1.12	88	ePn	03	54.00	1.0
	S.D. = 0.8	on	5 of	5 obs.		

OCT 25, 1990 01h 09m 37.51 ± 0.71s
 43.466 N ± 6.3km 12.714 E ± 6.3km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)

ARV	0.17	79	Pd	09	41.50	0.1
		eSg	09	45.40		
ASS	0.40	186	P	09	45.80	0.1
		eSg	09	53.00		
CRE	0.58	287	P	09	49.30	0.0
SFI	0.77	306	P	09	52.50	-0.1
MNS	1.08	181	P	09	58.00	0.1
SDI	1.94	155	P	10	10.50	-0.4
	S.D. = 0.2	on	6 of	6 obs.		

OCT 25, 1990 01h 37m 16.72 ± 0.62s
 35.098 N ± 5.9km 3.947 W ± 6.7km
 DEPTH = 10.0km (geophysicist)
 STRAIT OF GIBRALTAR (385)
 mblg 3.2 (MDD).

EMEL	0.84	76	iP	37	33.00	0.2
		eS	37	42.00		
TAF	1.29	102	iPg	37	42.00	1.3
		iSg	38	02.00		
OJEN	1.64	308	eP	37	50.00	4.3X
MAL	1.67	347	ePn	37	45.00	-1.1
		iSg	38	04.00		
EJIF	1.83	318	eP	37	50.00	1.5
		eS	38	12.50		
IFR	1.86	212	iPn	37	49.50	0.5
		i	37	53.00		
		iSn	38	13.00		
MOMI	1.89	311	eP	37	55.50	6.2X
EPRU	2.13	331	eP	37	54.00	1.1
		eS	38	20.00		
AFC	2.18	8	eP	37	53.30	-0.3
		eS	38	19.00		
ECOG	2.20	8	eP	37	53.50	-0.4
		eS	38	20.00		
ENIJ	2.34	36	eP	37	54.50	-1.3
		eS	38	18.00		
EHOR	2.91	339	eP	38	05.50	1.6
		eS	38	38.50		
EBAN	3.06	2	eP	38	06.50	0.4
		eS	38	38.80		
AVE	3.39	239	ePn	38	10.00	-0.7
		i	38	13.20		
		iSn	38	42.00		
		i	38	46.50		
TOL	4.78	359	ePb	38	13.00	-17.4X
		ePg	38	29.50		
		eSb	39	21.50		
		eSg	39	40.00		
TIO	5.01	215	iPn	38	32.70	-1.1
		iSn	39	28.90		
GUD	5.54	358	eP	38	39.50	-1.8
		eS	39	40.00		
	S.D. = 1.2	on	14 of	17 obs.		

OCT 25, 1990 02h 53m 43.86 ± 0.32s
 58.021 N ± 9.0km 32.349 W ± 4.2km
 DEPTH = 10.0km (geophysicist)
 4.4mb (22 obs.) 4.0Msz (4 obs.)
 NORTH ATLANTIC OCEAN (402)

AKU	10.19	35	iP	56	15.20	2.1
	1.0s	28.00nm			5.6mb X	
FLN	20.96	102	eP	58	28.10	-0.9
	0.8s	13.45nm			4.4mb	
	20s	0.52um			3.9Msz	
NB2	21.99	64	P	58	40.00	0.6
	1.1s	8.20nm			4.1mb	
SNF	22.44	94	P	58	44.70	0.8
DOU	22.84	94	P	58	48.30	0.5
WTS	22.99	88	eP	58	50.50	1.2
	1.0s	12.00nm			4.4mb	
ENN	23.17	92	eP	58	51.00	0.0
	1.0s	16.00nm			4.5mb	
MEM	23.30	92	P	58	43.00	-9.3X
HFS	23.39	65	eP	58	53.30	0.2
	0.6s	1.20nm			3.6mb	

Z	16s	0.24um			3.7MszX	
		LR	05	05.00		
BGF	24.10	103	eP	58	59.90	-0.2
	0.8s	8.75nm			4.4mb	
SSF	24.11	101	eP	58	59.90	-0.3
	0.8s	2.70nm			3.9mb	
LOR	24.16	101	eP	59	00.40	-0.3
	0.8s	5.35nm			4.2mb	
Z	20s	0.47um			4.0Msz	
AVF	24.21	102	eP	59	00.80	-0.3
	0.8s	4.05nm			4.1mb	
LBF	24.41	101	eP	59	03.40	0.2
	0.8s	5.35nm			4.2mb	
SMF	24.56	102	eP	59	03.80	-0.8
	1.0s	10.00nm			4.4mb	
HAU	25.01	97	eP	59	09.60	0.7
	0.8s	13.45nm			4.7mb	
Z	20s	0.95um			4.3Msz	
BSF	25.35	97	eP	59	13.00	0.7
	0.8s	6.70nm			4.4mb	
MOX	26.27	87	e(P)	59	20.00	-0.6
GRF	26.59	89	eP	59	23.00	-0.7
Z	21s	0.40um			3.9Msz	
CLL	26.64	85	eP	59	23.00	-1.1
KSP	28.64	83	eP	59	40.50	-1.7
MBC	34.04	335	eP	00	29.00	-0.4
	1.0s	7.00nm			4.5mb	
FFC	37.15	296	iPc	00	56.30	0.3
	0.9s	17.00nm			4.8mb	
INK	41.62	327	eP	01	32.00	-0.9
OLY	44.58	266	eP	01	57.50	0.1
FBA	48.07	329	iPc	02	24.60	-0.1
IMA	48.69	332	e(P)	02	52.20	22.5X
GLD	48.70	281	eP	02	31.00	0.9
	1.2s	30.30nm			5.2mb	
BW06	48.73	287	iP	02	29.50	-0.9
	1.0s	5.00nm			4.5mb	
GOL	48.81	281	iP	02	31.50	0.4
	0.9s	7.20nm			4.7mb	
PNT	48.95	300	eP	02	32.00	0.3
	0.7s	8.00nm			4.9mb	
DAU	51.33	286	eP	02	50.00	-0.4
	1.0s	1.00nm			3.7mb	
TTA	51.84	331	e(P)	02	52.40	-1.3
ALQ	52.96	278	eP	03	02.50	-0.1
	1.6s	12.50nm			4.6mb	
BCAO	66.44	122	iPc	04	35.00	-0.3
	0.5s	4.00nm			4.9mb	
SIV	77.46	208	Pc	05	43.00	2.2
	S.D. = 0.9	on	34 of	36 obs.		

OCT 25, 1990 03h 00m 49.90s
 33.520 N 116.500 W
 DEPTH = 16.0km
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 3.2 (PAS). Felt
 (iii) at Warner Springs and (ii)
 at Palm Springs. Also felt at
 Cathedral City, Palm Desert and
 Rancho Mirage.

PLM	0.35	241	iPd	00	56.90	-0.4
PEC	0.66	304	P	01	02.00	-0.7
TPC	0.69	33	iPd	01	03.00	-0.2
CPE	0.81	218	iPd	01	04.30	-0.9
BAR	0.85	190	iPd	01	05.30	-0.5
RVR	0.87	303	iPc	01	05.40	-0.7
IKP	0.93	159	iPd	01	07.40	0.2
VPD	1.09	286	ePc	01	09.71	-0.3
			S	01	24.46	
PCF	1.20	297	eP	01	11.41	-0.4
			S	01	27.05	
PEM	1.31	300	ePc	01	13.03	-0.5
			S	01	30.36	
MWC	1.47	299	iPc	01	15.90	-0.1
GLA	1.48	108	P	01	18.00	2.1
FMA	1.50	278	eP	01	16.54	0.4
PAS	1.53	295	eP	01	16.43	-0.1
			S	01	36.91	
CIS	1.60	266	eP	01	18.04	0.5
PVPS	1.61	280	eP	01	18.36	0.7
CIW	1.72	269	eP	01	19.88	0.6
			S	01	41.98	
GSC	1.80	352	iPc	01	20.00	-0.5
ABL	2.62	301	P	01	31.40	-1.1
BCH	3.40	300	P	01	43.20	-0.2
BLP	3.40	289	P	01	42.50	-0.8

25d 03h

TNP 4.59 353 P 02 00.00 -0.4
 CMB 5.50 326 P 02 30.00 16.8
 23 obs. associated

OCT 25, 1990 03h 24m 09.15±0.42s
 23.830 N ± 6.1km 108.715 W ± 5.9km
 DEPTH = 10.0km (geophysicist)
 5.0mb (28 obs.) 5.1Msz (4 obs.)

GULF OF CALIFORNIA (49)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 11S, 24C

Centroid Location:

Origin Time 03:24:10.3 1.1

Lot 23.74N 0.09 Lon 108.25W 0.10

Dep 15.0 FIX Half-duration 1.7

Moment Tensor; Scale 10¹⁷ Nm

Mrr=-0.02 0.05 Mtt=-1.00 0.06

Mff=1.02 0.07 Mrt=-0.06 0.19

Mrf=0.05 0.15 Mtf=-0.18 0.05

Principal Axes:

T Val=1.04 Plg=3 Azm=265

N -0.02 86 135

P -1.02 3 355

Best Double Couple: Mo=1.0×10¹⁷

NP1:Strike=40 Dip=86 Slip=0

NP2: 130 90 -176

MRX 8.11 119 (P) 26 15.50 5.8X

CRX 9.49 116 (P) 26 44.00 14.8X

III 10.19 120 (P) 26 40.50 1.7

PPM 10.52 115 (P) 26 46.00 2.4

IIT 10.81 114 (P) 26 49.50 2.2

ACX 10.81 128 (P) 26 49.50 2.4

ALO 11.25 10 ePd 26 53.00 -0.2

ANMO 11.25 10 P 26 53.00 -0.2

BAR 11.26 323 eP 26 53.00 -0.2

IISM 11.61 112 (P) 27 01.00 3.1X

PLM 11.88 325 eP 27 02.00 0.3

TPC 12.08 330 eP 27 05.00 0.7

RVR 12.64 325 eP 27 13.00 1.2

ODX 13.09 119 (P) 27 21.00 3.0X

MWC 13.18 324 eP 27 23.00 3.8X

PAS 13.19 323 eP 27 20.00 0.9

GSC 13.42 330 eP 27 23.00 0.8

SBB 13.42 326 eP 27 23.00 0.8

SYP 14.49 320 eP 27 36.00 -0.4

ISA 14.51 327 eP 27 37.00 0.5

PV09 14.63 359 eP 27 38.00 -0.3

TNP 15.96 335 P 27 56.00 0.5

1.4s 118.75nm 4.8mb

SIO 16.01 39 iP 28 01.60 5.6X

PRI 16.04 323 eP 27 57.00 0.6

GOL 16.07 9 P 27 58.00 0.9

1.8s 148.01nm 4.8mb

GLD 16.15 10 P 27 59.00 1.1

1.5s 183.59nm 5.0mb

FRI 16.17 327 eP 27 58.60 0.6

TUL 16.43 40 eP 28 03.90 2.6

1.2s 90.00nm 4.8mb

Z 18s 2.89um 4.8MszX

LLA 16.53 323 eP 28 03.30 0.6

PRS 16.57 322 eP 28 03.20 0.1

DAU 16.67 353 P 28 05.00 0.3

DUG 16.68 349 P 28 06.00 1.4

CMB 17.32 328 eP 28 13.00 0.4

ARN 17.39 324 P 28 14.00 0.5

MHC 17.45 324 eP 28 13.00 -1.3

BKS 18.16 324 eP 28 23.70 0.7

2.0s 405.00nm 5.2mb

Z 20s 4.40um 4.8Msz

N 20s 1.40um

E 20s 4.20um

eLQ 31 52.00

eLR 33 36.00

BRK 18.17 324 eP 28 23.80 0.7

BW06 18.91 358 P 28 31.50 -1.0

OLY 18.94 48 P 28 31.00 -1.6

ORV 19.05 328 eP 28 35.10 1.2

MIN 19.72 330 eP 28 41.80 -0.2

WDC 20.35 328 eP 28 46.30 -2.0

LBFM 20.65 331 P 28 50.00 -1.8

FVM 21.05 44 P 28 55.00 -0.6

FHC 21.23 326 P 28 56.00 -1.4

1.3s 130.43nm 5.2mb

ELC 21.43 47 P 28 59.00 -0.4
 LRM 22.15 353 ePd 29 07.30 0.4
 RSCP 23.21 54 P 29 17.20 -0.1

1.0s 249.46nm 5.7mb

GBTN 24.26 55 P 29 25.60 -1.7

TKL 24.58 56 P 29 29.60 -0.9

PRM 25.15 60 P 29 35.60 -0.4

LON 25.17 339 P 29 36.00 -0.2

NEW 25.28 347 P 29 36.00 -1.1

1.0s 30.00nm 4.9mb

JSC 26.09 60 P 29 43.80 -0.9

LMS 26.50 60 P 29 48.00 -0.5

SES 26.58 357 ePd 29 48.60 -0.6

1.8s 312.00nm 5.7mb

PNT 26.84 344 eP 29 56.00 4.4X

BLA 27.66 55 eP 29 58.50 -0.7

Z 16s 5.39um 5.2MszX

WVLY 31.11 46 P 30 30.00 0.0

FFC 31.26 8 eP 30 29.00 -2.1

1.7s 106.00nm 5.5mb

TBR 33.55 51 P 30 49.00 -2.3

HBVT 35.54 46 P 31 09.00 0.7

YKA 38.85 356 eP 31 34.00 -1.9

1.0s 8.80nm 4.4mb

SDV 39.29 106 eP 31 41.80 1.4

TOV 39.64 104 eP 31 43.50 0.4

CAR 41.90 101 eP 31 52.00 -9.8X

LLAV 42.02 101 eP 32 01.00 -1.7

PMR 46.67 335 eP 32 39.10 -0.3

1.0s 20.00nm 5.1mb

INK 47.00 348 ePd 32 42.00 0.1

FBA 48.20 339 iPd 32 50.20 -1.2

0.8s 7.80nm 4.8mb

SVW 49.08 332 iPd 32 57.10 -1.2

0.8s 9.80nm 4.9mb

TTA 50.11 334 iPc 33 05.10 -1.1

0.8s 10.50nm 4.9mb

MBC 52.74 357 ePd 33 24.60 -1.2

1.0s 28.00nm 5.1mb

ZOBO 56.22 131 Pc 33 50.70 -2.0

1.3s 42.59nm 5.3mb

Z 20s 0.50um 4.6Msz

LR 47 40.00

LPB 56.42 131 P 33 52.00 -2.0

CNCB 56.69 132 Pc 33 54.60 -1.5

CCH 58.35 131 P 34 06.00 -1.5

SIV 61.09 126 iPc 34 24.00 -2.0

ROCH 66.96 146 eP 35 06.50 2.1

SAN 67.51 146 eP 35 06.70 -1.0

TACH 67.53 146 eP 35 07.00 -0.8

LNV 67.54 147 eP 35 04.00 -3.7X

BAO 71.10 117 eP 35 30.00 -0.2

SOB1 73.89 108 eP 35 45.50 -1.1

PDCR 76.99 110 eP 36 02.00 -2.2

KEV 01.47 14 eP 36 32.00 4.5X

NB2 02.61 25 P 36 32.90 -0.8

1.3s 10.10nm 5.1mb

FLN 03.59 39 eP 36 41.60 2.7X

0.8s 10.80nm 5.4mb

Z 20s 0.77um 5.1Msz

LPF 03.62 40 eP 36 42.40 3.4X

0.9s 16.40nm 5.2mb

LDF 03.88 39 eP 36 43.00 2.6

1.0s 16.00nm 5.2mb

APD 03.97 25 eP 36 39.80 -0.8

2.0s 112.30nm 5.7mb

TCF 06.41 40 eP 36 55.10 2.0

0.9s 6.55nm 4.8mb

RJF 06.49 42 eP 36 55.60 2.1

0.8s 6.70nm 4.9mb

Z 20s 0.73um 5.1Msz

SUF 06.63 19 eP 36 56.00 2.2

SSF 06.77 39 eP 36 57.00 2.2

1.0s 9.00nm 4.9mb

AVF 06.82 40 eP 36 57.90 2.9X

1.0s 14.00nm 5.1mb

LOR 06.86 39 eP 36 57.40 2.1

0.8s 6.70nm 4.9mb

Z 20s 0.73um 5.1Msz

LBF 07.08 39 eP 36 58.40 2.0

1.0s 10.00nm 5.0mb

NUR 07.82 21 eP 37 15.00 15.4X

MAT 92.92 312 (P) 37 30.00 6.1X

WB5 121.73 261 ePKP 43 07.00 1.4

S.D. = 1.3 on 86 of 101 obs.

OCT 25, 1990 04h 52m 06.03±0.59s

76.243 N ± 9.3km 8.409 E ± 14.4km
 DEPTH = 10.0km (geophysicist)

4.6mb (7 obs.)

SVALBARD REGION (643)

KBS 2.79 14 iPc 52 52.30 0.8

TRO 7.31 150 eP 53 55.74 0.4

LOF 8.30 167 eP 54 07.59 -1.6

KEV 8.44 131 iP 54 10.80 -0.7

0.7s 17.40nm 5.4mb

i 54 16.70

e 55 51.00

KTK1 8.47 141 eP 54 10.69 -0.9

SOD 10.50 138 iP 54 38.10 -1.3

e 56 29.00

SUF 14.82 147 iP 55 37.40 0.4

0.6s 10.00nm 4.5mb

NB2 15.31 175 P 55 46.00 2.5

0.8s 4.70nm 3.9mb

NRA0 15.62 174 Pn 55 52.20 4.7X

EKA 21.44 198 P 56 59.00 3.1X

1.4s 29.70nm 4.5mb

MBC 24.82 333 eP 57 31.00 2.2

1.0s 24.00nm 4.8mb

CLL 25.10 173 eP 57 37.00 5.3X

1.9s 18.00nm 4.4mb

MOX 25.73 175 eP 57 40.00 2.3

INK 33.77 336 eP 58 49.00 -0.2

FFC 42.05 306 eP 59 58.00 -0.7

0.7s 92.00nm 5.6mb X

SES 47.88 311 eP 00 45.00 -0.5

LRM 52.54 311 eP 01 21.00 -0.4

e 01 26.90

ALD 61.91 302 eP 02 26.00 -1.9

1.5s 6.94nm 4.6mb

LKO 67.11 195 P 03 00.64 -0.9

0.9s 15.00nm 5.2mb

S.D. = 1.5 on 16 of 19 obs.

OCT 25, 1990 04h 53m 59.98±0.12s

35.121 N ± 2.9km 70.486 E ± 2.1km

DEPTH = 113.9km (geophysicist)

6.0mb (95 obs.)

HINDU KUSH REGION (718)

Eleven people killed, more than

250 injured and damage in the

Chitral-Mardan-Molokond area,

Pakistan. Felt throughout

northern and central Pakistan.

Also felt in northwestern India.

25d 05h

TDS	42.72	293	Pc	01	48.30	1.1			0.6s	943.50nm	6.7mb	ASK	48.15	323	eP	02	29.20	-0.7			
CSI	42.73	293	P	01	47.90	0.6	GIB		44.85	291	P	02	09.30	4.8X			02	30.57	0.1		
PRU	42.80	308	Pc	01	48.50	0.8	KGM		44.90	130	ePd	02	06.80	1.9			02	32.43	6kmX		
	1.0s	173.40nm			5.8mb										ENN	48.24	310	iPc	02	31.00	0.2
		pP	02	31.00	197kmX		MNS		44.91	297	Pc	02	05.00	0.2		1.1s	183.00nm			5.8mb	
		ePP	04	00.00			WATA		44.95	304	iPc	02	04.40	-0.8	SAOF	48.27	301	P	02	31.20	0.0
		eS	08	04.00					1.3s	323.00nm	5.9mb	BAG	48.28	99	eP	02	33.20	1.6			
		eSS	08	40.00											EMS	48.30	303	ePc	02	31.30	-0.2
GRI	42.83	292	P	01	48.59	0.5									ENR	48.32	301	P	02	30.70	-0.9
	0.8s	557.20nm			6.4mb		GRF		44.96	308	iPc	02	06.60	1.5	HAU	48.36	306	iPc	02	31.60	-0.2
MMN	42.93	293	P	01	50.40	1.5			1.6s	923.00nm	6.3mb				0.8s	209.90nm			6.0mb		
CZI	42.96	292	P	01	50.40	1.3	Z		22s	1.00um	4.7Msz				Z	20s	1.25um			4.9Msz	
LJU	43.06	302	iPc	01	50.60	0.7															
		e	02	32.00	191kmX		RMP		45.00	297	P	02	06.00	0.5	AUTN	48.36	301	P	02	31.36	-0.7
		e	03	39.50			CTI		45.06	303	P	02	06.00	0.5	SUE	48.37	324	eP	02	31.20	-0.4
		e	04	11.50			FUR		45.06	306	iPc	02	06.50	0.6	STV	48.38	301	P	02	30.70	-1.4
		eS	08	08.00					1.5s	640.00nm	6.2mb				SBF	48.38	300	iPc	02	31.90	-0.1
		e	11	24.00			SQTA		45.21	304	iPc	02	06.40	-0.8	AURF	48.45	300	P	02	31.87	-0.8
KMR	43.16	305	iP+	01	51.20	0.5			1.2s	368.00nm	6.0mb				REVF	48.45	300	P	02	31.17	-1.4
		iP	02	23.00	142kmX										TOUF	48.48	301	P	02	33.10	0.1
		i	02	32.20											PZZ	48.48	301	P	02	31.01	-1.9
		iPP	03	59.80											LPG	48.53	303	iPc	02	33.40	0.0
		iPPcP	04	08.80												0.8s	262.35nm			6.1mb	
CEY	43.17	302	iPc	01	51.40	0.6									LPL	48.54	303	iPc	02	33.50	0.1
MGR	43.21	294	Pc	01	51.50	0.3									DBN	48.55	312	eP	02	34.00	0.9
RIY	43.24	301	eP	01	50.80	-0.5									Z	20s	1.00um			4.8Msz	
SGO	43.32	294	Pc	01	52.90	1.0	CRE		45.21	299	P	02	08.40	1.1			e(pP)	03	12.00	169kmX	
KHC	43.46	307	iP	01	53.50	0.4	SFI		45.23	300	Pc	02	08.40	1.1			e(S)	05	04.00		
	1.3s	84.50nm			5.4mb		NB2		45.24	324	P	02	06.00	-1.2			e	13	13.00		
		e	02	36.60	200kmX		MCT		45.24	291	P	02	08.90	1.2	VITF	48.56	306	P	02	33.12	-0.1
VOY	43.51	302	ePc	01	53.50	-0.1	FAI		45.30	290	P	02	09.40	1.5	WVIF	48.57	301	P	02	33.56	-0.1
BRN	43.61	312	eP	01	55.00	0.9	PGD		45.33	300	Pc	02	09.50	1.2	BNI	48.67	302	Pc	02	33.90	-0.4
MSI	43.63	291	P	01	54.60	0.1	NSS		45.45	329	eP	02	07.71	-1.0	CALN	48.79	300	P	02	35.10	-0.2
TRI	43.63	302	iPc	01	54.50	0.0	RGS		45.87	327	eP	02	11.00	-1.0	FRF	49.00	300	iPc	02	36.20	-0.6
		iP	02	22.30	121kmX		CVT		45.88	291	P	02	10.90	-1.5	LMR	49.15	300	eP	02	37.40	-0.5
		iPPP	04	12.00			SAL		45.90	302	P	02	14.20	1.7		1.2s	124.95nm			5.7mb	
		eS	08	06.00			KONO		45.90	322	ePc	02	13.01	0.7	DOU	49.17	309	Pc	02	38.20	0.2
		i	12	08.00												id	02	39.90	6kmX		
		eLR	15	36.00			OSS		46.00	304	ePc	02	13.20	-0.4			e	03	18.00		
BSS	43.64	295	P	01	55.20	0.6	MME		46.01	300	P	02	14.80	1.1			e	04	42.00		
RBL	43.69	303	P	02	06.40	11.4X	MAO		46.01	298	P	02	13.10	-0.4			S	09	39.00		
ATN	43.71	291	P	01	55.60	0.4	BDI		46.10	300	Pc	02	13.90	-0.4	UCC	49.22	310	Pc+	02	39.20	0.9
DUI	43.74	296	Pc	01	56.20	0.7	LVI		46.15	291	P	02	14.70	0.2			e	03	21.00	188kmX	
CLL	43.74	310	iPc	01	55.10	-0.2	PII		46.22	300	P	02	14.30	-0.7			e	05	15.00		
	1.4s	240.00nm			5.8mb		STU		46.37	307	ePd	02	16.50	0.3	LRG	49.23	300	eP	02	37.90	-0.6
		iP	02	23.40	124kmX				1.0s	290.00nm	6.0mb				1.0s	187.50nm			5.9mb		
		e(S)	08	17.00			MDI		46.43	303	P	02	17.40	0.7	Z	20s	1.00um			4.8Msz	
KBA	43.78	304	iPc	01	56.20	0.3	SAX		46.47	305	ePc	02	17.00	-0.4	SNF	49.31	310	Pc	02	39.10	0.1
		i	01	58.00	6kmX		VDL		46.49	304	ePc	02	17.10	-0.4	OCP	49.64	101	eP	02	40.00	-1.9
		i	02	22.10			TNS		46.70	309	ePd	02	19.70	0.8	KBS	49.86	348	iPd	02	43.30	0.4
		i	02	28.10			PTS		46.73	290	P	02	19.88	0.7	LBF	50.12	305	iPc	02	44.70	-0.6
HFS	43.90	323	eP	01	54.80	-1.7			1.1s	645.30nm	6.3mb				LOR	50.15	305	iPc	02	44.80	-0.7
	0.9s	423.00nm			6.2mb		LLS		46.76	304	ePc	02	18.80	-0.8	r	1.0s	93.75nm			5.7mb	
Z	18s	2.63um			5.2Msz		BOB		46.79	301	P	02	20.40	0.7	Z	20s	1.25um			4.9Msz	
		LR	17	14.00			TMA		46.96	303	ePc	02	20.30	-0.8	SMF	50.28	305	iPc	02	46.20	-0.3
WET	43.92	307	eP	01	56.80	0.0	SLE		46.97	305	ePd	02	20.70	-0.3	SHK	50.29	72	eP	02	46.90	0.2
		i	01	58.10	4kmX		VAI		47.07	303	P	02	21.00	-0.7	SSF	50.42	305	iPc	02	47.10	-0.4
BHG	44.03	305	eP	01	57.90	0.2	ZLA		47.08	305	ePd	02	21.40	-0.5	PLDF	50.58	304	P	02	48.70	-0.1
	1.8s	859.00nm			6.2mb		MOL		47.13	326	iPd	02	21.48	-0.5	AVF	50.58	305	iPc	02	48.50	-0.2
LPI	44.04	291	P	01	58.41	0.5	BLS2		47.24	321	eP	02	23.20	0.1	GRC	50.66	306	P	02	49.24	-0.1
COP	44.14	316	iPd	01	59.70	1.3	FEL		47.27	306	eP	02	22.86	-0.6	AGO	50.89	304	P	02	51.10	0.0
	0.9s	302.52nm			6.1mb		STR		47.33	307	P	02	23.99	0.2	BGF	50.97	305	iPc	02	51.30	-0.4
		i	02	39.00	179kmX		GWf		47.38	307	P	02	24.57	0.4	LBL	51.00	303	P	02	52.13	0.3
		i	04	11.00			BNS		47.43	310	iPd	02	24.90	0.4	KKM	51.02	114	ePc	02	54.00	1.4
		i	08	25.00			PGF		47.54	298	P	02	25.17	-0.5		1.1s	111.90nm			5.7mb	
		i	11	55.00			WTS		47.56	311	ePc	02	26.00	0.5	PYM	51.04	304	P	02	52.18	-0.2
RFI	44.16	296	P	01	59.61	0.9			1.2s	587.00nm	6.2mb				MAF	51.24	304	iPc	02	53.80	0.1
	1.8s	*****nm			7.4mb	X	WIT		47.57	312	eP	02	27.00	1.4	TCF	51.46	305	iPc	02	55.40	-0.1
SDI	44.20	296	P	02	00.20	1.0	MMK		47.59	303	ePd	02	25.60	-0.6	CAF	51.88	303	iPc	02	58.90	0.2
FVI	44.21	303	P	01	58.90	-0.2	WLS		47.63	306	P	02	25.31	-0.9	LSF	51.93	305	iPc	02	58.50	-0.5
MNO	44.36	291	P	02	02.70	2.0	BBS		47.67	305	P	02	25.64	-0.9	ETER	52.01	299	iPc	02	58.90	-0.7
TRO	44.36	337	iPc	01	59.64	-0.4	CKI		47.67	301	P	02	25.87	-0.6	RJF	52.17	303	iPc	03	00.90	0.1
MEU	44.38	289	P	02	01.50	0.7			1.0s	55.80nm	5.3mb				Z	20s	0.75um			4.7Msz	
AQU	44.39	297	P	02	01.50	0.8	HYA		47.68	324	eP	02	25.60	-0.7	LDF	52.48	308	iPc	03	02.40	-0.6
PZI	44.41	289	P	02	01.15	0.2	CDF		47.68	306	P	02	25.88	-0.8	LPO	52.55	303	iPc	03	03.50	-0.1
	0.8s	1235.10nm			6.7mb		FIN		47.76	301	P	02	26.09	-1.2	ESY	52.59	317	eP	03	02.20	-1.5
AZI	44.43	297	P	02	02.00	1.1	ECH		47.79	306	P	02	26.77	-0.6		0.9s	249.00nm			6.2mb	
HOF	44.50	309	eP	02	01.90	0.5	MOF		47.86	306	P	02	27.69	-0.3	FLN	52.68	308	iPc	03	03.50	-1.0
	1.0s	126.00nm			5.6mb		DIX		47.97	303	ePc	02	28.80	-0.3		0.8s	209.90nm	</			

	52.99	317	Pd	03	05.70	-1.0		1.0s	314.00nm	6.1mb					i	06	55.20	107kmX		
	1.0s	269.60nm				6.2mb			pP	05	21.50	117kmX	FFC	90.28	356	iPc	06	48.50	-0.3	
GRR	53.01	308	iPc	03	06.00	-0.8	GUMO	69.62	87	eP	04	46.50	-12.5X		1.2s	176.00nm			6.1mb	
ESK	53.02	317	eP	03	06.00	-0.9	CFTV	70.16	291	iPd	05	05.00	2.8X	CTA	90.35	114	iPc	06	49.10	-0.4
	1.0s	250.00nm				6.1mb	SMY	70.29	39	P	05	01.50	-1.0		1.1s	126.58nm			6.0mb	
EBH	53.03	318	eP	03	05.90	-1.1	GGC	71.49	292	eP	05	00.80	-1.5				i	07	18.20	110kmX
	0.8s	317.00nm				6.3mb	NANU	71.52	136	eP	05	10.30	0.0				iS	17	10.00	
LPF	53.21	307	iPc	03	07.30	-1.0		0.5s	20.00nm			5.2mb	QLP	92.84	121	iPd	07	01.50	0.7	
EAB	53.50	318	eP	03	09.30	-1.1	BFT	71.58	218	iPc	05	11.00	0.1	STK	94.31	126	iPd	07	07.40	-0.1
	0.9s	214.00nm				6.1mb	SLR	72.52	219	iPc+	05	14.50	-1.8		0.9s	13.00nm			5.3mb	
EPF	53.59	301	iPc	03	10.10	-1.2		1.5s	263.89nm			5.8mb				iPP	07	36.10		
	0.8s	104.95nm				5.9mb	EVA	72.74	218	iPc	05	07.50	-10.2X				iScS	17	30.40	
MAT	53.86	67	eP	03	13.00	-0.3		0.6s	73.33nm				ADE	94.41	130	iPd	07	08.50	0.5	
			eS	09	55.00		TBT	72.93	293	iPd	05	16.80	-1.9	SES	94.84	1	eP	07	09.00	-1.0
LWI	53.88	235	iP+	03	13.40	-0.5	MBL	72.97	132	eP	05	18.40	-0.4				pP	07	39.00	114km
BTH	53.95	301	iPc	03	14.30	0.5		0.5s	39.00nm			5.5mb	PNT	95.46	7	eP	07	13.00	0.2	
			i(sP)	03	21.50				e	05	47.00	113kmX		0.9s	43.00nm			5.9mb		
			ePPP	06	32.00		BPI	73.01	219	iPc	05	19.50	0.3	MCW	95.73	9	P	07	15.00	0.9
			eS	10	38.00		LKO	73.21	270	Pc	05	18.28	-2.3	RMQ	96.01	118	eP	07	14.70	-0.7
			eSS	14	33.00		CHIE	73.46	292	ePd	05	20.00	-1.7				e	08	08.00	216kmX
JAU	54.09	301	P	03	15.16	0.1	IMA	73.56	17	iPc	05	20.70	-1.2	NEW	96.71	5	iPc	07	18.80	0.3
OGE	54.12	301	P	03	14.21	-0.9		0.7s	73.50nm			5.6mb		1.2s	53.03nm			5.9mb		
EROQ	54.20	298	iPc	03	15.20	-0.5	PRY	73.91	219	iPc	05	23.50	-0.9				iPP	07	47.60	109kmX
ESCF	54.22	301	P	03	15.96	0.1	KIC	74.29	267	Pc	05	25.72	-1.0				i	08	07.60	
LHE	54.30	301	P	03	16.53	0.0		0.7s	76.50nm			5.6mb					e(PP)	11	10.00	
ATE	54.31	301	P	03	16.66	0.1	TIC	74.36	267	Pc	05	26.04	-1.1	GMW	96.85	9	P	07	20.00	0.9
WADF	54.37	301	P	03	15.66	-1.3		0.4s	60.50nm			5.8mb	RMW	97.06	8	P	07	20.40	0.3	
ISSF	54.39	301	P	03	17.22	0.0	LIC	74.60	267	Pc	05	27.38	-1.2				pP	07	52.50	123kmX
BOH	54.52	301	P	03	18.59	0.4		0.5s	67.50nm			5.7mb	LON	97.75	8	P	07	22.80	-0.5	
ETA	55.30	314	eP	03	22.20	-1.3	Z	20s	0.43um			4.7Msz	LRM	99.39	2	eP	07	30.40	-0.6	
	1.0s	139.00nm				5.9mb	MTN	74.61	118	eP	05	29.00	0.5	BW06	102.48	0	Pdiff	07	43.00	-1.6
ECP	55.52	313	eP	03	23.60	-1.5		0.4s	34.00nm			5.5mb	DAU	104.82	1	Pdiff	07	58.00	2.9X	
	1.1s	609.00nm				6.5mb	KNA	74.90	122	eP	05	30.20	0.1	GOL	105.45	357	Pdiff	07	59.30	1.4
ECHE	55.60	297	iPc	03	26.10	0.2	INK	75.33	9	iPc	05	31.30	-0.5		1.3s	10.42nm			5.7mb	
ECRI	55.72	301	iPc	03	26.80	0.0		1.0s	361.00nm			6.1mb	BRK	106.42	10	ePKP	12	00.90	-11.7X	
ECB	55.72	314	eP	03	25.40	-1.2			pP	05	56.00	95kmX	CMB	106.52	9	ePKP	12	01.00	-11.9X	
	1.0s	476.00nm				6.4mb	ADK	75.39	36	P	05	29.50	-2.9X	TNP	106.82	6	Pdiff	08	10.80	6.9X
ETOR	55.97	299	iPc	03	27.80	-0.9		1.0s	60.00nm			5.4mb	PRS	108.06	10	e(PKP)	12	12.80	-3.0X	
EALH	56.53	296	iPd	03	32.50	-0.1	JAY	75.39	104	ePc	05	33.00	-0.1	PRI	108.34	9	e(PKP)	12	15.30	-1.2
BCAO	56.79	250	iPc	03	32.80	-1.9	TTA	75.46	20	iPc	05	32.20	-0.6	CLC	109.03	7	ePKP	12	12.00	-5.7X
	0.9s	894.00nm				6.8mb		0.9s	66.30nm			5.4mb	ISA	109.09	8	ePKP	12	28.00	10.2X	
			i	04	58.70	413kmX	COL	75.91	16	iPc	05	34.64	-0.5	GSC	109.61	6	ePKP	12	21.00	2.2
			i	06	34.60				epPd	06	03.11	111kmX	UYO	109.65	347	e(PKP)	12	07.50	-11.3X	
EVIA	57.05	297	iPc	03	36.00	-0.3			e	06	17.34		SBB	110.12	7	ePKP	12	02.00	-17.8X	
ENIJ	57.44	295	iPc	03	38.10	-0.9	FBA	75.91	16	iPc	05	34.50	-0.7	ALQ	110.24	357	ePdiff	08	21.00	1.8
GUD	57.53	300	iPc	03	39.10	-0.6		0.7s	220.90nm			6.1mb	ALQ	110.24	357	e(PKP)	12	34.00	13.8X	
DAV	57.60	105	eP	03	43.00	2.7X	FRB	76.25	343	eP	05	37.00	-0.1	MWC	110.55	8	ePKP	12	34.00	13.2X
TOL	57.73	299	ePc	03	39.74	-1.2		0.5s	50.00nm			5.6mb	TPC	110.86	6	ePKP	12	21.00	-0.2	
	1.2s	1346.15nm				6.8mb	MEKA	76.38	137	eP	05	38.00	-0.3	BAR	112.22	7	ePKP	12	26.00	2.2
			e	04	04.41	100kmX		1.0s	93.00nm			5.5mb	SOB1	112.71	275	ePKP	12	25.20	0.0	
			iS	11	32.00		SVW	77.02	21	ePc	05	41.50	0.0	PDCR	113.09	271	ePKP	12	25.50	-0.4
			iSS	12	15.00			0.9s	37.40nm			5.2mb				e	13	15.20		
VAL	57.89	314	eP	03	41.00	-0.9	MRWA	77.05	140	eP	05	41.00	-1.0	LTZ	120.72	123	PKP	12	39.00	-0.7
AKU	58.02	331	eP	03	42.80	0.2	PMR	78.41	18	iPc	05	47.90	-1.1				e	13	08.70	
	1.9s	842.11nm				6.4mb		0.9s	227.50nm			6.0mb	THZ	120.79	122	PKP	12	39.20	-0.7	
			i	03	44.90	7kmX	BAL	78.53	141	eP	05	48.00	-2.1	JFO	121.23	264	ePKP	12	42.00	0.7
			i	04	25.90		TOA	78.69	17	iPc	05	50.80	0.1	KHZ	121.47	122	PKP	12	40.60	-0.4
NPA	58.07	216	iP	03	39.20	-4.3X		0.9s	497.40nm			6.3mb				e	13	10.20		
	1.0s	330.00nm				6.3mb	MUN	79.37	142	iPd	05	53.40	-1.2	TCW	121.55	121	PKP	12	40.20	-1.1
EBAN	58.16	297	iPc	03	43.40	-0.6	KLB	79.86	140	eP	05	56.00	-1.2	MRW	121.86	121	PKP	12	41.10	-0.7
TRT	58.26	129	ePc	03	44.00	-0.9	SDN	79.91	27	eP	05	57.90	0.8	BAO	122.00	273	ePKP	12	43.60	0.6
AFC	58.32	296	iPc	03	43.80	-1.5	NWAO	80.64	142	eP	06	01.50	0.2	MNG	122.20	120	PKP	12	41.30	-1.3
ECOG	58.33	296	iPd	03	43.70	-1.6	KDC	80.69	22	iPc	06	00.80	-0.4		0.5s	14.00nm				
EMEL	58.63	293	iPd	03	46.60	-0.7		0.8s	318.00nm			6.2mb				e	13	11.40		
ERUA	59.02	302	eP	03	49.60	-0.3	WARB	80.86	131	eP	06	03.10	0.5	MOW	122.32	121	ePKP	12	42.30	-0.5
EPLA	59.11	300	iPc	03	50.40	-0.2		0.4s	15.00nm			5.1mb	MTW	122.40	120	PKP	12	42.80	-0.1	
MAL	59.16	295	iPc	03	49.00	-1.9	COOL	81.13	138	iPc	06	03.50	-0.4	BLW	122.46	120	PKP	12	43.00	0.0
			iS	11	46.00		RKG	81.44	142	eP	06	07.20	1.8	PGZ	122.76	119	ePKP	12	43.20	-0.4
EHOR	59.36	297	iPc	03	51.40	-0.8	WB5	81.60	121	iPc	06	06.10	-0.5				e	13	13.80	
EPRU	59.68	296	iPc	03	52.70	-1.8			eS	09	22.90			VAO	124.80	265	ePKP	12	49.00	0.8
EJIF	60.05	295	eP	03	55.30	-1.7			e	17	00.00					e	12	50.70		
OJEN	60.24	295	eP	04	00.00	1.6	HYT	81.69	13	Pc	06	06.90	0.3				e	13	27.60	
WOMI	60.29	295	eP	03	59.50	0.9	YKA	82.64	2	eP	06	10.30	-1.0	SPA	124.94	180	iPKPd	12	47.60	0.4
PLAT	60.40	295	eP	04	00.00	0.6		0.8s	74.10nm			5.6mb				e	12	56.50		
CNII	60.52	296	eP	04	01.00	0.9	CRZF	82.89	193	iPc	06	20.00	7.3X	OXX	126.68	345	iPKP	12	54.50	2.3
EVAL	60.54	297	iPc	03	59.60	-0.7			eS	16	30.00		PPD	127.91	268	ePKP	12	54.60	0.4	
IFR	60.99	292	iPc	04	03.50	-0.2			eSP	17	15.00					i	12	56.50		
LIS	61.83	299	iPd	04	09.50	0.5	SCH	83.19	337	eP	06	14.00	-0.4				e	12	59.50	
AVE	62.82	293	iPc	04	15.00	-0.6	ASPA	83.81	124	iPc	06	17.80	-0.1	SIV	132.83	281	PKP	12	55.00	-8.6X
			i	04	29.00	50kmX														

25d 05h

LPH	138.73	286	ePKP	13	06.00	-9.3X
	1.2s	125.00nm				
				13	16.00	
CNCB	138.80	285	PKP	13	05.00	-10.6X
ARE	141.35	289	ePKP	13	16.00	-3.8X
CYA	142.48	268	ePKPc	13	15.50	-5.7X
NNA	142.50	300	iPKPd	13	18.30	-3.3X
	0.9s	23.53nm				
ANT	144.30	278	iPKP	13	23.50	-0.8
RTLL	145.63	264	iPKPd	13	27.00	0.5
RTCV	145.84	264	e(PKP)	13	28.20	1.4
ZON	145.86	264	ePKP	13	30.00	3.1X
RTCB	145.95	264	iPKPc	13	28.60	1.5
MDZ	146.38	262	ePKP	13	30.60	2.9X
				14	00.10	
RTBS	146.53	264	e(PKP)	13	30.60	2.8X
JACH	147.74	263	ePKPd	13	34.50	4.6X
PEL	147.93	262	iPKPd	13	32.00	1.9
	1.5s	1027.78nm				
SAN	147.99	262	ePKP	13	31.50	1.3
				13	35.70	
CHCH	148.10	261	ePKP	13	32.40	2.0
ROCH	148.15	263	ePKP	13	32.00	1.3
				13	36.30	
TACH	148.26	261	ePKP	13	32.00	1.4
				13	36.10	
LNK	148.71	261	iPKP	13	32.50	1.3
LCCB	148.73	262	ePKP	13	34.00	2.7X

S.D. = 1.0 on 444 of 499 obs.

& OCT 25, 1990 04h 57m 28.28s
63.196 N 150.479 W
DEPTH = 119.9km
CENTRAL ALASKA (1)
<AGS-P>.

HUR	0.44	119	eP	57	45.65	-0.5
RND	0.76	73	eP	57	48.01	-0.5
			eS	58	03.46	
CUT	0.80	173	iP	57	48.52	-0.2
			eS	58	04.79	
MCK	0.88	51	eP	57	49.07	-0.4
SKT	1.31	202	iP	57	53.27	-0.7
			eS	58	13.17	
NEA	1.52	23	eP	57	55.01	-1.3
PWA	1.58	170	eP	57	57.38	0.4
GHO	1.60	153	eP	57	57.22	-0.1
			eS	58	19.87	
WRH	1.66	39	iP	57	57.06	-0.9
SML	1.71	143	iP	57	58.13	-0.5
PLRM	1.73	158	eP	57	58.03	-0.7
			eS	58	21.42	
PMR	1.73	158	iPd	57	59.70	0.9
SUA	1.74	184	eP	57	59.09	0.0
CCB	1.88	38	eP	57	59.22	-1.4
NCG	1.96	204	eP	58	00.96	-0.9
			eS	58	28.14	
SCM	2.00	132	eP	58	02.11	-0.2
PMS	2.01	167	eP	58	01.95	-0.4
			eS	58	27.31	
KNK	2.02	151	eP	58	01.98	-0.5
			eS	58	28.14	
CGLM	2.03	201	eP	58	02.27	-0.3
FBA	2.08	33	iPd	58	02.20	-1.0
CRP	2.09	203	eP	58	03.87	0.4
BGL	2.14	206	eP	58	04.54	0.5
SPU	2.15	201	eP	58	04.31	0.1
CKL	2.19	204	eP	58	05.02	0.3
GLM	2.25	36	eP	58	04.31	-1.2
TOA	2.27	117	iPc	58	05.70	0.0
SDG	2.36	104	eP	58	07.74	0.9
TTA	2.53	266	eP	58	09.30	0.2
SLKM	2.70	177	eP	58	10.65	-0.7
KLU	2.73	127	eP	58	10.31	-1.4
RDT	2.79	200	eP	58	12.81	0.4
GLI	2.82	144	eP	58	10.52	-2.3
RSO	2.95	202	eP	58	15.35	0.6
RED	2.99	202	eP	58	16.71	1.5
SEW	3.14	171	eP	58	15.83	-1.3
SVW	3.20	231	eP	58	16.80	-1.1

36 obs. associated

& OCT 25, 1990 06h 05m 41.18s
57.375 N 150.382 W
DEPTH = 0.0km (geophysicist)
GULF OF ALASKA (15)
<AGS-P>.

KDC	1.20	289	eP	06	00.03	-4.4
			eS	06	15.84	
XLV	2.20	342	eP	06	14.80	-4.7
CNPM	2.20	349	iP	06	14.55	-5.0
CDD	2.33	313	eP	06	16.50	-4.9
			eS	06	43.91	
HOM	2.38	344	eP	06	16.85	-5.3
BRLK	2.41	354	eP	06	17.11	-5.5
AUE	2.54	323	eP	06	19.84	-4.5
AUH	2.57	322	eP	06	21.02	-3.8
NNL	2.72	350	eP	06	22.38	-4.5
OPT	2.73	328	eP	06	22.19	-4.9
MCNL	2.77	313	iP	06	22.59	-5.0
SEW	2.78	10	eP	06	21.32	-6.5
			eS	06	54.04	
PDB	3.14	322	eP	06	27.07	-5.7
SLKM	3.14	1	eP	06	26.57	-6.4
8GM	3.26	310	eP	06	28.93	-5.6
KNIM	3.28	24	eP	06	27.96	-7.0
RED	3.30	339	eP	06	29.01	-6.2
RSO	3.33	339	eP	06	29.61	-6.2
RDT	3.38	343	eP	06	29.88	-6.4
PMS	3.90	6	eP	06	37.56	-6.2
SPU	3.91	348	eP	06	37.27	-6.7
CKL	3.96	346	eP	06	38.67	-6.0
CRP	4.01	348	eP	06	39.39	-6.0
CGLM	4.03	349	eP	06	39.18	-6.4
BGL	4.03	346	eP	06	39.46	-6.2
SUA	4.11	358	eP	06	39.75	-6.9
NCG	4.14	348	eP	06	41.08	-6.1
KNK	4.17	13	eP	06	40.81	-6.7
VZW	4.19	26	eP	06	40.80	-6.9
PLRM	4.28	8	eP	06	42.95	-6.0
VLZ	4.30	27	eP	06	42.64	-6.7
GHO	4.47	9	eP	06	45.85	-6.0
SML	4.57	12	eP	06	46.88	-6.3
KLU	4.72	27	eP	06	48.31	-7.0
SCM	4.73	18	eP	06	49.26	-6.3
TGL	5.16	46	eP	06	53.83	-7.9
YAH	5.39	53	eP	06	56.58	-8.5
BALM	5.52	45	eP	06	58.98	-7.8

38 obs. associated

OCT 25, 1990 06h 25m 25.54 ± 0.31s
43.794 N ± 4.3km 98.472 W ± 3.2km
DEPTH = 5.0km (geophysicist)
3.6mb (1 obs.)
SOUTH DAKOTA (462)
mbLg 3.9 (NEIS), 3.9 (TUL), 3.8
(OTT). Felt (V) at Mount Vernon;
(IV) at Gann Valley, Plankinton
and White Lake; (III) at Alpena,
Arlington, Corsica, Freeman,
Geddes, Gregory, Harrison,
Kimball, Lane, Letcher, Lower
Brule, Marty, Miller, Oacomo,
Pukwana, Stickney and
Woonsocket.

GLD	6.46	234	eP	27	04.00	0.1
GOL	6.58	234	eP	27	05.10	-0.5
ULM	6.70	14	Pd	27	07.50	0.6
			S	28	20.00	
BMS	6.95	323	Pd	27	12.20	1.6
			S	28	29.60	
TUL	8.14	164	ePn	27	27.40	0.2
	0.7s	4.80nm				4.9mb X
			eSn	28	55.00	
			eLg	29	44.50	
BW06	8.15	267	eP	27	27.50	-0.1
SIO	8.21	168	(Pn)	27	27.30	-0.8
			e	27	28.20	
			eLg	29	46.00	
FVM	8.41	131	eP	27	32.00	1.0
MEQ	9.00	181	iP	27	38.00	-0.3
MENT	9.08	286	ePn	27	40.20	-0.3
SXM	9.33	289	ePn	27	44.40	0.5
ELC	9.58	130	eP	27	47.20	0.2
BGMT	9.80	283	ePn	27	52.50	2.1
LTMT	9.83	279	ePn	27	54.10	3.2X
HRY	9.86	292	ePn	27	49.00	-2.1
OLY	9.88	145	eP	27	49.00	-2.2
DAU	10.08	255	eP	27	54.70	0.3
LRM	10.14	286	ePn	27	54.30	-0.8
HBMT	10.25	286	ePn	27	56.40	-0.2
MCMT	10.36	281	ePn	28	00.00	2.7X
ANMO	10.78	218	e(P)	28	05.00	1.3

ALQ	10.78	218	eP	28	04.00	0.2
SES	10.81	312	Pd	28	03.60	-0.4
			S	29	59.50	
FFC	11.18	349	eP	28	08.00	-0.9
	0.4s	9.00nm				5.5mb
RSCP	12.86	125	eP	28	33.00	1.2
GBTN	13.64	122	eP	28	42.40	0.4
TKL	13.91	121	eP	28	47.00	1.4
EEO	13.97	71	P	28	46.63	0.3
CKO	15.06	74	P	29	01.53	1.0
BLA	15.21	109	eP	29	00.50	-2.2
FCC	15.23	9	P	29	06.11	3.4
TNP	15.26	254	e(P)	29	03.50	0.0
PNT	15.54	298	P	29	21.00	14.1
GRQ	16.18	72	P	29	15.00	0.0
TRQ	17.07	73	P	29	26.00	-0.5
MIN	17.51	267	e(P)	29	52.10	20.1X
CMR	17.51	258	ePc	29	36.00	4.0X
FRI	17.52	254	eP	29	36.40	4.4X
JAQ	17.95	48	P	29	36.44	-0.8
WDC	18.11	268	e(P)	29	39.00	-0.3
YKA	20.97	339	eP	30	19.20	7.6X
	0.4s	1.20nm				3.6mb
	S.D. = 1.1 on 33 of 41 obs.					

& OCT 25, 1990 06h 45m 08.70s
40.705 N 124.738 W
DEPTH = 18.0km
NEAR COAST OF NORTHERN CALIF. (35)
<BRK>. ML 3.1 (BRK).

FHC	0.58	80	iPc	45	19.80	-0.3
			iS	45	27.50	
WDC	1.68	94	iPc	45	35.40	-2.0
LTCM	2.06	103	eP	45	41.00	-1.8
LBFM	2.25	72	eP	45	44.90	-0.9
MIN	2.42	98	iPd	45	45.80	-2.3
ORV	2.74	114	ePd	45	49.90	-2.7X
	6 obs. associated					

* OCT 25, 1990 07h 28m 24.16 ± 0.42s
51.841 N ± 13.5km 156.716 E ± 11.4km
DEPTH = 33.0km (normal)
4.7mb (12 obs.)
KAMCHATKA (217)

KUSJ	11.92	228	P	31	15.20	0.6
			eS	33	16.10	
ASAJ	12.18	236	eP	31	25.30	7.2X
HOAJ	13.14	229	eP	31	32.50	1.7
			eS	33	47.10	
MRRJ	14.19	235	eP	31	48.00	3.4
NI1J	19.22	228	P	32	49.30	1.2
KAKJ	19.57	223	P	32	51.40	-0.6
MAT	20.16	228	eP	32	59.00	0.7
CHJJ	20.21	226	P	32	59.40	0.6
MTMJ	20.31	229	P	33	00.20	0.2
I1DJ	21.17	227	P	33	09.70	1.0
FBA	30.76	43	iP	34	39.50	1.3
	1.0s	12.50nm				4.7mb
INK	36.12	36	eP	35	26.00	1.7
MBC	39.00	22	eP	35	34.00	-14.4
YKA	45.47	41	eP	36	42.50	1.1
	0.7s	2.80nm				4.3mb
LRM	56.34	57	eP	38	04.10	-0.2
GUN	56.95	274	P	38	08.38	-0.5
	0.6s	6.00nm				4.8mb
KKN	57.40	275	P	38	11.38	-0.6
	0.6s	15.00nm				5.2mb
PKI	57.48	274	P	38	11.68	-1.0
	0.6s	4.00nm				4.7mb
DMN	57.64	275	P	38	12.88	-0.8
	0.5s	11.00nm				5.2mb
GKN	57.65	275	P	38	12.92	-0.7
	0.6s	8.00nm				4.9mb
TNP	58.98	67	iP	38	22.50	-0.4
	0.8s	5.15nm				4.7mb
BW06	59.93	58	iP	38	29.00	-0.4
	0.8s	5.71nm				4.8mb
DAU	60.68	61	eP	38	34.70	0.1
	0.6s	1.00nm				4.1mb
ALO	67.26	62	eP	39	17.00	-0.6
	0.7s	3.08nm				4.5mb
GBA	72.81	270	P	40	09.00	17.7
	0.5s	1.00nm				
WB5	74.04	202	eP	39	55.70	-2.6
ASPA	77.80	201	eP	40	17.80	-1.7

0.6s 6.10nm 4.8mb
S.D. = 1.1 on 23 of 27 obs.

* OCT 25, 1990 09h 05m 25.44 ± 1.79s
24.174 S ± 11.7km 179.731 W ± 14.6km
DEPTH = 537.9 ± 22.1 km
5.0mb (6 obs.)

SOUTH OF FIJI ISLANDS (171)

DZM	12.89	277	iPc	08	14.60	0.8
BKM	12.96	298	iPd	08	14.00	-0.4
WLZ	14.20	195	eP	08	28.80	2.0
NOZ	14.52	187	eP	08	29.80	-0.2
PGZ	16.74	191	P	08	51.20	-0.5
	0.4s	34.00nm			5.3mb	
MNG	16.88	193	eP	08	51.40	-1.8
KIW	17.24	194	P	08	55.70	-0.9
BLW	17.61	192	eP	09	00.60	0.4
WDW	17.61	193	eP	08	59.80	-0.4
MRW	17.64	194	P	08	59.90	-0.5
WEL	17.67	194	P	09	02.00	1.2
	0.8s	89.55nm			5.4mb	
KHZ	19.03	195	P	09	14.20	0.4
LTZ	19.70	198	P	09	20.00	-0.2
MMCZ	22.67	201	P	09	46.80	-0.7
MHZ	22.67	201	P	09	46.60	-0.9
BRS	24.94	257	iP	10	08.50	0.5
RMQ	28.54	259	iPd	10	38.90	-0.6
CAN	29.22	240	eP	10	47.00	1.7
BWA	29.49	242	eP	10	46.90	-0.7
CTA	31.72	271	iPd	11	06.80	0.1
	0.8s	89.55nm			5.4mb	
TOO	32.51	237	iPc	11	15.40	2.2
PMG	34.82	289	iPd	11	31.40	-1.3
	0.9s	67.23nm			5.2mb	
STK	34.85	248	iPd	11	34.20	1.4
	0.6s	4.00nm			4.2mb	
ASPA	42.24	261	eP	12	32.20	-0.7
	0.9s	34.30nm			4.9mb	
		iS	18	13.20		
WB5	42.62	266	iPd	12	35.20	-0.8
WARB	48.29	256	iPd	13	19.10	-0.5
KNA	48.91	270	eP	13	23.60	-0.7
NANU	58.96	257	eP	14	35.40	0.1
	0.4s	11.00nm			4.6mb	
ALO	90.93	52	eP	17	34.00	1.0
HFS	142.86	349	ePKP	23	55.10	-3.4X
	0.9s	4.80nm				

S.D. = 1.1 on 29 of 30 obs.

OCT 25, 1990 09h 33m 14.59 ± 1.30s
14.100 N ± 9.9km 92.323 W ± 11.6km
DEPTH = 58.7 ± 11.0 km
4.6mb (15 obs.) 3.7Msz (2 obs.)
NEAR COAST OF CHIAPAS, MEXICO (69)

TPX	0.80	4	iP	33	30.00	-0.1
			iS	33	53.50	
SCX	2.64	354	eP	33	57.50	2.0
			(S)	34	31.50	
OXX	5.17	306	eP	34	26.50	-5.1X
EVV	5.22	327	(P)	34	39.50	7.6X
IISM	6.86	316	(P)	35	01.00	6.1X
IIT	7.54	311	(P)	35	05.00	0.4
PPM	7.80	310	eP	35	06.50	-2.0
III	8.07	303	(P)	35	52.00	40.1X
MRX	10.15	305	eP	35	37.50	-2.7X
OLY	21.33	2	eP	37	59.00	0.4
MEO	21.36	346	iPd	37	57.50	-1.4
SIO	21.85	351	eP	38	02.70	-1.1
TUL	21.94	352	eP	38	03.30	-1.4
	0.5s	7.70nm			4.4mb	
	Z	19s	0.28um		3.7Msz	
		LR	50	00.00		
RSCP	22.25	15	iP	38	08.60	0.7
	0.9s	32.53nm			4.8mb	
ALO	24.36	331	eP	38	28.50	0.0
	0.8s	3.54nm			3.9mb	
BLA	25.35	23	eP	38	37.10	-0.6
	0.9s	7.56nm			4.2mb	
GOL	27.96	338	eP	39	01.50	-0.4
	1.0s	11.00nm			4.4mb	
PV09	28.50	332	eP	39	07.00	0.2
DAU	31.01	331	eP	39	31.00	1.9
	1.2s	2.00nm			3.7mb	
BW06	32.21	336	eP	39	38.50	-1.0
	1.0s	2.75nm			4.0mb	

TNP 32.52 322 eP 39 42.00 -0.2
LRM 35.89 336 ePc 40 11.50 0.3
ZOBO 38.50 141 P 40 33.80 0.1
Z 18s 0.10um 3.7Msz

LPB	38.72	141	P	40	38.00	-2.7
CNCB	39.00	141	eP	40	36.00	-1.9
SES	39.27	341	eP	40	39.00	-0.2
FFC	41.23	352	eP	40	55.00	-0.2
	0.5s	7.00nm			4.7mb	
PNT	41.64	333	eP	41	00.00	1.3
	1.0s	14.00nm			4.7mb	
SIV	42.99	133	P	41	10.20	0.2
YKA	50.86	347	eP	42	10.40	-0.8
	0.8s	19.20nm			5.2mb	
SOB1	56.03	111	e(P)	42	48.00	-2.1
SOB1	56.03	111	eP	42	51.50	1.4
PDCR	58.98	114	eP	43	09.60	-1.2
INK	60.25	344	ePc	43	18.20	-0.6
PMR	62.19	333	eP	43	33.20	1.3
FBA	63.03	337	eP	43	38.50	1.0
	0.8s	7.76nm			4.8mb	
MBC	63.78	353	eP	43	42.50	0.3
	1.0s	13.00nm			4.9mb	
TTA	65.67	333	eP	43	55.90	1.1
	0.8s	8.62nm			4.8mb	
EKA	78.07	36	P	45	08.00	-0.5
	0.8s	8.80nm			4.8mb	
LKO	84.58	82	P	45	43.96	0.5
	0.7s	7.50nm			4.9mb	
GBA	150.67	21	PKPd	53	03.00	6.3X
	0.7s	5.50nm				

S.D. = 1.2 on 35 of 41 obs.

% OCT 25, 1990 10h 14m 36.69 ± 0.94s
40.849 N ± 6.7km 28.320 E ± 8.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

CTT	0.31	15	iPg	14	43.20	0.1
BNT	0.58	212	iPg	14	48.70	0.3
			iSg	14	57.20	
ISK	0.60	69	ePg	14	48.50	-0.3
			eSg	14	57.70	
KCT	0.60	177	iPg	14	48.20	-0.6
IZI	1.02	120	ePg	14	56.70	0.7
			eSg	15	09.70	
HRT	1.02	91	ePg	14	55.90	-0.2

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

OCT 25, 1990 11h 01m 38.72 ± 0.11s
8.307 N ± 2.8km 126.462 E ± 3.3km
DEPTH = 44.1km (geophysicist)
5.9mb (76 obs.) 6.1Msz (27 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

Ms 5.7 (PAS). Mo=5.0*10**18 Nm
(PPT). Some minor damage
reported on Mindanao. Depth from
broadband displacement

seismograms.
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=350 Dip=64 Slip= 90
NP2: 170 26 90
Principal Axes:

T Plg=71 Azm=260
P 19 80

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

RADIATED ENERGY

No. of sta: 4 Focal mech. C
Energy 2.1±1.0*10**13 Nm

MOMENT TENSOR SOLUTION

Dep 45 No. of sta: 17

Moment Tensor: Scale 10**18 Nm

Mrr= 5.26 Mtt=-1.66

Mff=-3.60 Mrt= 1.99

Mrf= 1.37 Mtf= 3.54

Principal axes:

T Val= 6.35 Plg=66 Azm=324

N -0.06 24 142

P -6.30 1 232

Best Double Couple:Mo=6.3*10**18

NP1:Strike=345 Dip=49 Slip= 123

NP2: 120 50 58
CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 175, 42C M.W.: 11S, 18C

Centroid Location:

Origin Time 11:01:46.8 0.2

Lat 8.09N 0.02 Lon 127.02E 0.02

Dep 45.7 1.1 Half-duration 5.5

Moment Tensor: Scale 10**18 Nm

Mrr= 2.97 0.05 Mtt= 0.46 0.05

Mff=-3.42 0.06 Mrt= 1.46 0.09

Mrf= 0.75 0.08 Mtf=-0.29 0.05

Principal Axes:

T Val= 3.68 Plg=66 Azm=349

N -0.12 23 190

P -3.57 8 97

Best Double Couple:Mo=3.6*10**18

NP1:Strike=163 Dip=42 Slip= 55

NP2: 26 57 118

DAV	1.50	216	eP	02	08.80	5.3X
QCP	8.21	328	eP	03	45.00	6.8X
BAG	9.89	325	eP	04	02.00	0.5
KKM	10.41	258	ePd	04	15.00	6.4X
	1.5s	1145.10nm			6.8mb X	
		e	04	51.50		
BKB2	13.46	226	ePc	04	56.50	7.1X
MKS	15.14	208	iPc	05	17.50	6.2X
TATO	17.24	345	iPc	05	38.21	0.2
	1.3s	692.81nm			5.6mb	
ANP	17.43	345	iPc	05	41.60	1.1
		eS	08	54.00		
JAY	17.81	127	eP	05	47.20	2.0
HKC	18.26	321	iP	05	53.90	3.3X
		iS	09	16.00		
KUPT	18.56	189	eP	05	46.50	-7.8X
	1.3s	802.10nm			5.7mb	
GUMO	18.81	72	iPd	05	59.08	1.6
PJG	18.81	72	e(P)	05	57.80	0.4
GUA	18.84	72	e(P)	05	56.50	-1.3
	1.2s	500.00nm			5.6mb	
	Z	21s	64.34um		4.0MszX	
		eS	09	27.00		
TRT	21.05	221	iPd	06	22.30	0.9
	1.0s	124.70nm			5.2mb	
MNDI	22.37	129	eP	06	38.00	3.1X
KAGJ	23.14	10	eP	06	43.00	1.0
SSE	23.20	348	iP+	06	42.00	-0.6
	1.0s	270.00nm			5.7mb	
	Z	20s	37.50um		5.8Msz	
	N	22s	5.70um			
		pP	06	55.10	54kmX	
		PP	07	16.00		
		S	10	50.00		
		sS	11	14.00		
		SS	11	44.00		
KGM	23.87	256	ePd	06	53.60	4.3X
	1.2s	1353.50nm			6.3mb	
KNA	24.01	175	iPc	06	50.60	0.0
	0.4s	216.00nm			6.0mb	
KUMJ	24.45	9	eP	06	54.70	0.0
KLM	25.22	260	ePd	07	05.50	3.3X
	1.0s	1020.00nm			6.3mb	
PCT	25.34	287	ePc	07	07.40	4.1X
	0.7s	5.10nm			4.2mb X	
IPM	25.54	263	ePd	07	08.90	3.6X
	0.9s	577.20nm			6.1mb	
		e	11	38.00		
SNG	25.63	269	iPc	07	10.00	3.9X
	1.0s	364.00nm			5.9mb	
		eS	11	32.20		
SHNJ	26.05	9	P	07	09.10	-0.6
TKSJ	26.49	14	P	07	14.20	0.3
SHK	26.72	11	iPc	07	16.00	0.1
	1.3s	1307.69nm			6.4mb	
PMG	27.10	130	eP	07	18.00	-1.6
	0.8s	67.16nm			5.3mb	
WKYJ	27.12	17	P	07	19.90	

IIDJ	29.01	20 P	07 35.30	-1.4		0.9s	105.00nm	5.6mb	WEL	66.31	142 P	12 23.00	-1.9
WB5	29.07	165 iPc	07 34.60	-2.8X		Z 20s	7.40um	5.5msz			S	21 06.00	
		i	07 37.90	12kmX		N 20s	4.70um				SS	26 08.00	
		eS	12 17.00			E 20s	4.10um		MNG	66.36	141 P	12 23.50	-1.8
CHJJ	29.89	21 P	07 43.40	-1.1	NWAO	41.94	192 iPc	09 26.88 0.0	MOZ	66.55	145 P	12 26.40	0.1
MTMJ	29.98	18 P	07 43.80	-1.7		1.0s	208.00nm	5.8mb	MAIO	66.58	306 iPc	12 26.40	-0.6
MBL	30.00	192 iPc	07 45.60	0.0		Z 20s	7.10um	5.5msz			eS	21 12.00	
	0.5s	45.00nm		5.5mb		N 20s	7.30um						
MAT	30.07	19 iPc	07 44.30	-1.9		E 20s	3.50um		PGZ	66.86	141 P	12 27.60	-0.8
		eS	12 28.00				epPd	09 38.14 40kmX	TEH	73.09	305 eP	13 08.00	1.2
KAKJ	30.46	22 P	07 47.30	-2.2			esPd	09 46.25	ANM	73.24	25 iPc	13 09.60	2.7
NIIJ	30.97	20 P	07 51.70	-2.3	STK	42.50	161 iPd	09 31.20 -0.3	SDN	73.58	35 iPc	13 08.90	-0.1
OIS	31.46	156 iPc	07 56.60	-1.9		1.0s	50.00nm	5.2mb		0.9s	264.60nm		6.2mb
		eS	10 52.00			Z 18s	425.00um	7.4mszX	HON	73.59	70 P	13 20.00	10.3
							iScP	15 10.20	Z 20s	7.98um			6.0msz
YAMJ	32.16	20 P	08 04.10	-0.4			iS	15 44.10	DHR	74.14	295 iP+	13 12.50	-0.3
NANU	32.49	199 eP	08 08.10	0.6					DRV	75.43	174 eP	13 19.00	-0.4
	0.4s	22.00nm		5.4mb	GUN	42.95	302 Pc	09 36.86 1.1	PAF	75.46	214 iPc	13 25.00	5.1
ASPA	32.60	167 iPc	08 06.30	-2.2	RKG	43.09	192 iPd	09 41.30 5.0X			eS	22 56.00	
	0.6s	64.90nm		5.7mb		0.5s	219.00nm	6.1mb			eSS	28 00.00	
Z 23s		15.80um		5.6mszX	PKI	43.23	302 Pc	09 38.64 0.6			eSSS	31 24.00	
		iS	13 11.00		KKN	43.41	302 Pc	09 39.96 0.6	KER	76.59	303 eP	13 27.00	0.1
		iPcS	14 35.90			1.3s	3323.00nm	6.9mb X	SVW	76.93	29 iPc	13 29.60	1.5
		iScS	18 29.70		DMN	43.50	302 Pc	09 40.86 0.7		0.8s	45.80nm		5.6mb
BJI	32.91	345 iPc	08 09.82	-1.1		1.1s	2829.00nm	6.9mb X	TTA	76.97	27 iPc	13 29.10	0.8
	1.0s	387.00nm		6.2mb	BRS	43.69	145 iPc	09 40.00 -1.3		0.8s	43.40nm		5.5mb
Z 24s		25.40um		5.8mszX		i	09 49.00 30kmX		TAB	77.18	307 iP+	13 30.00	-0.1
N 19s		13.10um				e(S)	15 17.00		RYD	77.39	293 iP+	13 30.60	-0.8
		epPd	08 21.40	43kmX	CMS	43.69	156 eP	09 40.00 -1.2	BRW	77.95	19 eP	13 35.10	1.7
		esPd	08 27.36			e	11 28.00 622kmX		KDC	78.24	33 iPc	13 36.10	0.8
		iPcP	10 56.00		GKN	44.02	302 Pc	09 44.60 0.4		0.7s	220.90nm		6.3mb
		eS	13 23.28		ADE	44.57	166 iPc+	09 48.00 -0.3	IMA	78.34	24 iPc	13 36.80	0.9
OFUJ	33.55	22 P	08 16.70	0.2		0.7s	124.66nm	5.8mb	MJMA	78.52	295 iP+	13 37.00	-0.5
WARB	34.28	180 iPc	08 22.80	-0.2	COO	45.72	149 e(P)	09 43.00 -14.6X	KMSA	79.66	289 iP+		

	0.8s	40.00nm	5.7mb				i	15 06.50	34kmX		1.6s	59.00nm	5.9mb				
HOL	87.22	299	iP+	14 22.70	0.6	ATH	94.85	309	eP	14 56.40	-1.1	Z 22s	10.00um	6.3Msz			
SUF	87.38	333	iP	14 20.90	-1.3	NEO	94.89	311	eP	14 56.90	-0.8		e	15 29.90	36kmX		
	0.7s	105.00nm	6.2mb			VAM	95.10	307	eP	14 58.10	-0.6		e	15 53.20			
RMN	87.41	300	iPc	14 23.10	0.0	BSD	95.25	328	iPd	14 57.80	-1.2	GRFO	99.50	323	ePDIFc	15 17.09	-1.3
ANTO	87.54	310	iPc	14 22.61	-1.0		1.0s	73.00nm	6.1mb				ePP	15 23.00			
			epPd	14 34.20	37kmX	JNW	95.32	347	eP	15 00.00	0.9		epP	15 28.51	36kmX		
			ePP	17 47.94		MOL	95.42	336	eP	14 57.26	-2.4	TRI	99.51	319	iPd	15 15.00	-3.5X
BBTK	87.57	310	eP	14 26.00	2.2	YKA	95.46	24	eP	14 59.50	-0.4		IPP	19 22.00			
MBC	87.57	13	ePc	14 23.50	0.5		0.8s	27.60nm	5.8mb				iSP	28 18.00			
	0.9s	259.00nm	6.5mb			SKO	95.49	314	iP	14 58.50	-1.9		ISPP	29 20.00			
CSS	87.85	305	eP	14 25.00	-0.1	Z 22s		9.52um	6.2Msz				iSS	34 08.00			
MAW	87.93	200	eP	14 25.50	0.8	N 22s		6.55um					iSSS	38 32.00			
PMO	87.95	105	iP	14 31.80	6.0X	E 22s		6.53um				ORI	99.67	313	P	15 21.00	1.6
	0.8s	20.00nm	5.4mb						15 01.00	8kmX	FVI	99.80	320	P	15 19.90	0.1	
TPT	88.21	105	iP	14 33.20	6.2X			i	18 51.00				e	19 25.00			
	0.8s	30.00nm	5.6mb					i	20 53.00		CSI	99.88	313	P	15 18.10	-2.3	
VAH	88.24	106	iP	14 33.10	5.9X			i	27 47.00		TDS	99.88	313	P	15 20.00	-0.4	
	0.8s	30.00nm	5.6mb			KZN	95.71	312	eP	15 00.20	-1.3	MMN	100.06	313	Pdiff	15 23.80	2.7X
TRO	88.28	340	eP	14 27.59	1.2	VLI	95.77	308	eP	14 59.40	-2.4	BUL	100.14	251	iPdiff	15 16.40	-5.7X
RUV	88.47	105	iP	14 34.30	6.0X	SRO	95.84	320	iP	15 02.50	0.6	CZI	100.18	312	Pdiff	15 20.80	-0.8
	0.8s	30.00nm	5.6mb					e	19 16.10		WDC	100.20	46	ePdiff	15 22.90	1.1	
NUR	88.60	331	iP	14 27.20	-0.9	KSP	96.05	323	iPc	15 02.50	-0.3		e	15 36.70			
	1.0s	236.00nm	6.4mb				1.2s	68.00nm	6.0mb			ePP	19 20.60				
SBA	88.88	172	iPc	14 30.30	1.2			e	18 45.50		MGR	100.29	313	Pdiff	15 21.00	-1.2	
		eS	24 56.80			EVR	96.06	311	eP	15 02.10	-1.1	SGO	100.32	314	Pdiff	15 22.00	-0.2
HRT	89.74	311	eP	14 26.00	-8.0X	QHR	96.19	313	iP	15 01.20	-2.5	LBFM	100.39	45	Pdiff	15 23.00	0.1
NAI	89.84	269	iPc	14 36.00	0.8		1.0s	88.00nm	6.2mb		CTI	100.73	320	Pdiff	15 24.50	0.4	
	1.0s	30.00nm	5.6mb			ITM	96.43	309	eP	15 03.20	-1.6	OGA	100.79	321	ePdiff	15 24.70	0.2
CFR	89.98	316	eP	14 34.00	-0.9	ZST	96.48	321	eP	15 03.80	-1.0		1.1s	24.00nm	5.7mb		
ISK	90.14	311	eP	14 35.00	-0.8			e	19 01.40		NEW	100.80	38	Pdiff	15 24.60	0.3	
ITU	90.17	311	iPc	14 36.00	0.1	VKA	96.95	321	iPc	15 07.50	0.6		1.0s	23.13nm	5.7mb		
ELL	90.30	307	eP	14 36.10	-0.7		4.0s	746.00nm	6.6mb X			Z 20s	6.00um	6.1Msz			
KHL	90.31	309	eP	14 35.00	-1.8			e	19 00.00		ARV	100.89	317	Pdiff	15 25.50	0.7	
HLW	90.32	300	eP	14 49.00	12.1X			i	19 06.10		SLR	100.89	245	iPdiff	15 26.50	1.1	
		e	18 14.00			BRN	97.23	325	ePc	15 09.00	1.0		Z 20s	13.83um	6.5Msz		
		e	18 35.00			KEK	97.33	312	eP	15 07.10	-1.7			i	19 07.00		
CTT	90.59	312	eP	14 36.20	-1.7	PRU	97.40	323	P	15 08.50	-0.4	WTS	100.95	327	ePdiff	15 24.50	-0.2
LOF	90.65	340	eP	14 36.38	-1.2		1.4s	58.00nm	5.9mb		SDI	100.96	315	Pdiff	15 24.00	-1.2	
DMK	90.95	312	eP	14 38.00	-1.5	Z 21s		11.40um	6.3Msz		AZI	101.12	316	Pdiff	15 27.00	1.2	
BNT	91.13	311	iP	14 39.00	-1.4	N 22s		5.90um			BNS	101.24	326	iPdiff	15 26.80	0.7	
EDC	91.18	311	iP	14 40.00	-0.6	E 20s		6.70um				Z 22s	16.00um	6.5MszX			
BUC	91.58	315	ePc	14 40.50	-1.8			PP	19 11.20				i	19 33.50			
JMB	91.67	313	eP	14 42.00	-0.8			SKS	26 00.00		ASS	101.24	317	Pdiff	15 31.00	4.6X	
ARG	91.81	307	eP	14 42.70	-0.9			S	26 36.00		ORV	101.31	47	e(Pdiff)	15 25.40	-1.3	
IZM	92.04	309	eP	14 44.00	-0.6			PS	28 28.00		BKS	101.35	49	e(Pdiff)	15 27.20	0.3	
CMP	92.11	316	ePc	14 53.00	8.2X			SS	33 31.00				e	19 47.20			
UPP	92.14	331	iP	14 42.90	-1.6	GMW	97.58	40	P	15 11.50	1.7			e	26 25.60		
PVL	92.39	314	iPc	14 43.00	-3.1X	BMW	97.68	41	P	15 11.60	1.3			e	27 01.60		
EZN	92.44	311	eP	14 44.00	-2.4	CLL	97.79	324	eP	15 09.00	-1.6			e	28 17.60		
SMG	92.51	308	eP	14 45.80	-0.9		1.4s	56.00nm	5.9mb				e	28 50.40			
TNR	92.54	317	ePc	14 48.00	1.2	Z 21s		5.50um	6.0Msz				e	29 24.00			
KDZ	92.70	313	eP	14 44.00	-3.6X			e	15 20.00	35kmX			e	29 36.00			
KAP	92.70	306	eP	14 46.70	-1.0			iPP	19 24.60				e	30 24.40			
RDO	92.73	312	eP	14 46.20	-1.5	LWI	97.90	269	iP+	15 13.00	0.9			e	33 43.60		
DAG	92.73	352	iPd+	14 45.80	-1.2	COR	98.29	43	ePc	15 16.74	3.8X			e	34 20.40		
	1.0s	140.00nm	6.3mb					ePP	19 11.78				e	37 54.00			
Z 21s	4.30um	5.9Msz						eHPP	19 12.06				e	43 24.00			
N 22s	3.85um							eS	26 39.57				eLR	47 52.00			
E 21s	2.87um							ePS	28 06.22								
	iS	18 33.00				KHC	98.31	322	P	15 12.60	-0.5	OSS	101.42	321	ePdiff	15 28.00	0.7
NSS	92.75	337	iPc	14 48.23	0.9		1.2s	24.00nm	5.6mb		SFI	101.46	318	Pdiff	15 32.00	4.8X	
UZH	93.05	320	iPc	14 50.00	1.0	Z 22s		1.50um	5.4Msz		MNS	101.49	316	Pdiff	15 29.00	1.5	
		eS	25 50.00			N 22s		6.80um			ABH	101.54	325	ePdiff	15 29.06	1.5	
RZN	93.20	313	iPd	14 49.00	-1.1	E 22s		4.50um			PGD	101.56	318	Pdiff	15 28.00	0.0	
PGB	93.38	314	eP	14 50.00	-0.8			e	19 12.50		SAX	101.67	322	ePdiff	15 28.30	-0.2	
APE	93.67	308	eP	14 50.80	-1.4			S	26 08.00		DBN	101.77	327	ePdiff	15 29.00	0.6	
HFS	93.87	332	eP	14 50.70	-1.8	KMR	98.38	321	iP+	15 12.80	-0.6		Z 20s	4.70um	6.0Msz		
	0.9s	139.00nm	6.4mb					iPP	19 14.90				ePP	19 40.00			
Z 21s	11.87um	6.3Msz				LON	98.49	40	P	15 14.30	0.3		ePS	28 59.00			
	LR	53 13.00				VBY	98.61	318	eP	15 16.40	2.0		eSS	34 08.00			
MMB	93.94	313	eP	14 52.00	-1.3			e	19 16.00		VDL	101.92	321	ePdiff	15 30.00	0.4	
NPS	94.01	306	eP	14 53.40	-0.4	WET	98.73	322	iPc	15 15.00	0.1	MHC	101.97	49	ePdiff	15 30.00	0.1
RGS	94.03	336	eP	14 51.50	-1.8		Z 19s	7.00um	6.2Msz				ePKKP	31 35.90			
VTS	94.06	314	ePg	14 54.00	0.0	MOX	98.86	324	iP+	15 15.00	-0.5	ENN	102.03	326	ePdiff	15 29.00	-0.6
KRA	94.11	322	eP	14 52.90	-1.0		1.4s	57.00nm	5.9mb								

25d 11h

BSF	102.94	323	ePKKP 31 32.50		
	1.0s	14.00nm	ePdiff15 33.50	-0.4	
MMK	103.05	321	ePdiff15 35.20	0.6	
DOU	103.10	326	Pdiff 15 34.60	0.2	
	Z 18s	6.20um	6.2Msz		
		S	26 37.00		
SES	103.30	34	ePdiff15 35.00	-0.4	
DIX	103.38	321	ePdiff15 37.20	1.1	
FRI	103.54	49	ePdiff15 37.00	0.3	
		ePKKP 31 31.40			
EMS	103.68	321	ePdiff15 37.00	-0.4	
BCH	103.90	51	Pdiff 15 40.50	2.0	
LPG	104.06	321	ePdiff15 39.30	0.1	
	1.2s	17.85nm	5.8mb		
LPL	104.06	321	ePdiff15 38.30	-0.8	
	1.0s	11.00nm	5.6mb		
BNI	104.31	321	Pdiff 15 44.00	3.9X	
		e	20 00.00		
LRM	104.76	38	ePdiff15 45.10	2.8X	
LOR	104.95	324	ePdiff15 44.00	1.2	
	1.2s	20.85nm	5.9mb		
	Z 20s	8.75um	6.3Msz		
TNP	104.96	47	Pdiff 15 43.60	0.3	
	1.0s	5.42nm	5.4mb		
LBF	105.03	323	ePdiff15 43.70	0.6	
	1.0s	12.00nm	5.8mb		
SSF	105.27	324	ePdiff15 44.60	0.5	
	1.0s	11.00nm	5.8mb		
FFC	105.30	27	ePdiff15 44.00	-0.1	
	1.5s	44.00nm	6.2mb		
FFC	105.30	27	ePKP 19 54.00	-4.0X	
	1.3s	53.00nm			
AVF	105.50	323	ePdiff15 45.50	0.4	
	0.8s	33.60nm	6.4mb		
CLC	105.56	49	ePKP 20 10.00	10.8X	
PAS	105.75	51	ePKP 20 01.00	1.4	
		ePPP 22 54.00			
		eSKS 26 48.00			
		eS 27 36.00			
		ePPS 29 24.00			
		ePKKP 30 20.00			
		eSS 34 24.00			
		eSKKP 34 48.00			
		eSSS 38 02.00			
		eLg 45 15.00			
		eLR 49 32.00			
MWC	105.81	51	ePKP 20 01.00	1.1	
SBB	105.81	51	ePKP 20 01.00	1.2	
GSC	106.35	50	ePKP 20 03.00	2.2	
PLM	107.06	51	ePKP 20 03.00	0.7	
DUG	107.16	44	Pdiff 15 53.50	0.6	
TPC	107.39	50	ePKP 20 04.00	1.3	
BAR	107.46	52	ePKP 20 03.00	0.1	
PV09	110.47	44	e(Pdiff16 09.00)	1.1	
WIN	110.98	249	ePdiff16 12.00	1.6	
	Z 22s	7.78um	6.2Msz		
GOL	112.36	41	PKP 20 20.00	7.7X	
	Z 20s	4.25um	6.0Msz		
GLD	112.43	41	PKP 20 20.00	7.7X	
	Z 20s	5.00um	6.1Msz		
ANMO	114.10	46	PKP 20 20.00	4.3X	
	Z 20s	4.26um	6.0Msz		
ANMO	114.10	46	ePdiff16 28.36	4.3X	
		eHPP 21 09.14			
		ePP 21 10.96			
ALO	114.10	46	ePKPc 20 16.00	0.3	
	Z 22s	4.35um	6.0Msz		
MAL	115.77	318	ePKP 20 20.50	2.0	
SCH	116.14	8	ePKP 20 18.00	-0.7	
MEO	119.61	42	iPKPd 20 25.80	-0.1	
SIO	120.50	40	iPKP 20 27.70	0.1	
		e	20 41.90		
TUL	120.72	39	ePKP 20 28.00	0.0	
	1.2s	36.40nm			
	Z 20s	11.80um	6.5Msz		
		e	22 03.70		
		LR	56 00.00		
TIO	120.96	314	iPKP 20 30.00	1.2	
FVM	122.51	34	PKP 20 30.20	-1.1	
OLY	123.64	37	PKP 20 32.00	-1.6	
ELC	123.68	34	PKP 20 32.80	-0.8	
RSNY	124.08	18	PKP 20 33.50	-0.7	
WVLY	124.53	22	PKP 20 34.30	-0.9	
HBVT	124.68	17	PKP 20 34.80	-0.5	
MIM	124.90	13	PKP 20 36.20	0.5	
BHH	124.97	15	PKP 20 35.60	-0.3	

MRX	125.45	59	(PKP)	20 38.00	0.5
EMM	125.72	12	PKP	20 37.00	-0.3
RSCP	126.91	33	PKP	20 39.00	-1.0
TBR	127.24	20	PKP	20 40.20	-0.2
LVNJ	127.36	20	PKP	20 40.30	-0.3
III	127.50	59	(PKP)	20 43.00	1.2
GBTN	127.57	32	PKP	20 40.00	-1.2
TKL	127.81	31	PKP	20 41.10	-0.6
PPM	127.90	58	(PKP)	20 44.00	1.1
NAV	127.94	28	PKP	20 41.20	-0.7
BLA	128.19	27	PKP	20 41.30	-1.1
IISM	128.98	57	(PKP)	20 46.00	1.7
LKO	129.06	289	PKP	20 44.12	-0.5
KIC	129.21	285	PKP	20 31.20	-13.7X
TIC	129.40	286	PKP	20 31.10	-14.2X
LIC	129.52	285	PKP	20 31.60	-13.9X
	Z 20s	3.00um	6.0Msz		
OXX	130.41	59	(PKP)	20 50.00	2.7X
ECO	148.59	57	(PKP)	21 19.50	-0.3
UPA	148.93	57	iPKPc+21	19.00	-1.3
	1.0s	80.00nm			
	Z 20s	3.55um	6.2Msz		
LNV	149.62	150	ePKP	21 22.00	1.3
		i	21 25.00		
LCCN	149.92	149	ePKP	21 21.00	-0.2
CHCH	150.01	151	ePKP	21 22.80	1.3
TACH	150.10	150	ePKP	21 23.00	1.4
SAN	150.40	150	ePKP	21 24.00	2.0
ROCH	150.61	149	ePKP	21 23.00	0.4
PEL	150.63	150	ePKP	21 23.00	0.6
	1.1s	158.23nm			
PORP	150.79	26	PKP	21 22.00	-0.9
		i	21 29.00		
MDZ	151.73	152	ePKP	21 31.60	7.5X
COTA	153.84	72	ePKP	21 29.50	1.3
VC1	154.09	74	ePKP	21 30.20	1.7
CAYA	154.25	72	ePKP	21 30.50	1.7
BNG	155.25	52	ePKP	21 28.00	-1.5
FUQ	155.65	56	ePKP	21 30.50	0.1
TOV	155.81	42	ePKP	21 32.60	2.4
BOG	155.83	59	iPKP	21 32.00	1.4
		ePP	25 36.00		
GUAC	157.09	37	ePKP	21 33.00	1.0
LLAV	157.14	36	ePKP	21 31.00	-1.0
CEOS	157.33	41	ePKP	21 32.00	-0.2
BMA	163.09	211	ePKP	21 39.70	1.7
CNCB	163.57	122	PKPc	21 41.20	1.9
LPB	163.61	121	PKPc	21 41.00	1.9
	1.1s	101.27nm			
	Z 20s	8.16um			
ZOBO	163.71	120	iPKPc	21 40.64	1.2
		eSKP	25 05.63		
VAO	164.09	203	ePKP	21 41.00	2.0
		e	22 33.00		
CCH	164.77	128	PKP	21 42.50	2.4
PDCR	165.22	252	ePKP	21 40.20	0.1
		e	21 50.80		
		e	22 19.40		
PPD	166.19	189	ePKP	21 41.10	0.4
		e	22 39.50		
SOB1	167.47	265	ePKP	21 41.60	-0.4
SIV	169.39	137	PKPc	21 44.20	1.1
BAO	170.92	216	ePKP	21 44.50	0.5
		e	23 03.50		
	S.D. = 1.1	on 344 of 398 obs.			
	OCT 25, 1990	11h 27m	57.81 ± 0.85s		
	36.304 N ± 7.0km	5.874 W ± 6.7km			
	DEPTH = 10.0km	(geophysicist)			
	STRAIT OF GIBRALTAR	(385)			
	mbLg 2.2 (MDD).				
CNIL	0.16	295	iP	28 01.00	-0.5
PLAT	0.20	153	iP	28 01.00	-1.3
SFS	0.31	301	iP	28 04.00	-0.3
OJEN	0.34	127	iP	28 06.50	1.6
EJIF	0.36	66	eP	28 05.00	-0.2
		eS	28 11.20		
ALJ	0.43	30	iP	28 04.00	-2.6
GIBL	0.53	353	iP	28 09.50	1.0
EPRU	0.84	38	eP	28 14.90	0.9
		eS	28 28.60		
EVAL	1.46	332	eP	28 25.00	0.9
		eS	28 43.60		
ENOR	1.59	18	eP	28 26.50	0.4

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

* OCT 25, 1990 13h 39m 23.65 ± 1.50s
 44.227 N ± 6.3km 7.592 E ± 15.2km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.4 (LDG).

SAOF	0.24	186	Pg	39 28.83	0.0
AUTN	0.26	207	Pg	39 28.81	-0.4
		Sg	39 34.44		
TOUF	0.33	229	Pg	39 29.35	-1.2
SBF	0.38	197	Pg	39 31.60	0.1
		Sg	39 37.60		
AURF	0.39	209	Pg	39 31.49	-0.2
FRF	0.95	226	Pg	39 42.70	0.9
		Sg	39 55.60		
LRG	1.18	230	Pg	39 46.40	0.8
		Sg	40 02.00		
LMR	1.19	222	Pg	39 46.00	0.2
		Sg	40 02.00		
LPG	1.40	335	Pg	39 49.40	-0.1
	S.D. = 0.7	on 9 of 9 obs.			

? OCT 25, 1990 14h 09m 39.91 ± 1.13s
 39.133 N ± 7.7km 27.570 E ± 14.6km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.6 (ISK).

IZM	0.77	198	ePg	09 55.00	0.0
		eSg	10 06.00		
EZN	1.19	306	ePn	10 02.00	0.0
EDC	1.23	10	iPn	10 03.00	0.2
BNT	1.25	12	iPn	10 03.00	-0.2
	S.D. = 0.2	on 4 of 4 obs.			

OCT 25, 1990 14h 15m 29.37 ± 0.80s
 28.307 N ± 5.8km 54.198 E ± 3.6km
 DEPTH = 45.4 ± 8.6 km
 4.7mb (23 obs.) 4.0Msz (1 obs.)
 SOUTHERN IRAN (353)

BRF	3.91	236	(P)	16 29.40	0.9
BBU	3.93	239	iP	16 28.90	0.2
	0.9 s	871.00nm			
DHR	4.13	242	ePc	16 32.50	1.0
RYD	7.68	244	iP+	17 18.70	-2.8
TEH	7.78	343	eP	17 22.00	-1.0
MJMA	8.31	255	iP+	17 26.30	-3.9X
MAIO	9.14	28	eP	17 41.00	-0.7
		eS	19 51.00		
QASM	9.75	259	ePd	17 45.70	-4.3X
AFIF	10.74	250	ePc	18 04.70	1.1
QUE	11.29	77	eP	18 11.20	0.0
	0.7 s	349.32nm		6.6mb	X
		e(S)	20 10.10		
KMSA	11.85	230	ePd	18 13.70	-4.9X
KMTA	14.49	228	ePc	18 49.90	-3.8X
ABHA	14.51	229	eP	18 52.00	-1.9
MKT	16.77	284	eP	19 22.00	-0.6
PRNI	16.87	282	eP	19 24.50	0.6
RMN	17.19	282	eP	19 31.00	3.1X
NDI	20.23	83	eP	19 59.00	-4.4X
POO	20.46	114	eP	20 06.50	0.6
BBTK	21.10	309	iPd	20 14.00	1.6
ELL	22.10	299	eP	20 23.00	0.6
KHL	22.85	302	eP	20 30.60	0.9
GPA	22.99	308	eP	20 32.50	1.5
HRT	23.66	308	eP	20 37.00	-0.5
BNT	24.71	306	iP	20 49.00	1.4
HYB	24.87	111	eP	20 50.00	0.6
EZN	25.69	304	eP	20 57.50	0.7
GBA	26.10	119	P	21 03.00	2.2
GKN	26.81	83	P	21 07.02	-0.4
	0.7 s	23.00nm		4.9mb	
KDZ	26.94	307	eP	21 10.00	1.7
DMN	27.28	84	P	21 12.08	0.2
KKN	27.40	84	P	21 12.56	-0.4
	0.5 s	18.00nm		4.9mb	
RZN	27.44	307	eP	21 14.00	0.9
PKI	27.55	84	P	21 13.80	-0.6
PVL	27.58	310	eP	21 14.00	-0.1
GUN	27.91	83	P	21 17.82	0.1
	0.4 s	13.00nm		4.9mb	
VTS	28.80	308	eP	21 27.00	1.6
		e	34 00.00		

VAY 28.86 305 eP 21 26.30 0.6
SKO 29.86 306 eP 21 32.50 -2.2
OHR 30.09 304 iP 21 36.50 -0.3
1.1s 65.00nm 5.3mb
TDS 33.15 300 P 22 04.50 1.0
MGR 33.81 301 P 22 08.50 -0.8
KRA 33.86 319 eP 22 15.20 5.7X
SGO 34.06 301 P 22 12.00 0.6
ZST 34.80 315 eP 22 22.30 4.7X
DUI 34.87 303 P 22 20.00 1.5
SDI 35.35 303 P 22 22.50 0.0
AZI 35.68 303 P 22 25.50 0.3
MNS 36.30 304 P 22 29.00 -1.5
ARV 36.30 306 P 22 28.00 -2.4
ASS 36.42 305 P 22 32.00 0.5
CRE 37.03 306 P 22 37.40 0.7
SFI 37.16 306 P 22 39.00 1.5
PGD 37.24 306 P 22 40.00 1.5
KHC 37.32 315 P 22 38.70 -0.2
1.0s 7.50nm 4.6mb
CTI 37.73 310 P 22 42.50 0.0
NUR 37.86 337 iP 22 43.30 0.0
0.8s 19.10nm 5.1mb
i 22 50.00
SOTA 38.30 311 iPc 22 46.50 -0.8
0.6s 11.30nm 4.9mb
CLL 38.40 318 eP 22 48.00 0.1
0.9s 8.00nm 4.6mb
e 22 54.00
SUF 38.99 340 eP 22 52.60 -0.1
0.7s 5.00nm 4.4mb
BOB 39.00 307 P 22 52.00 -1.2
BNI 40.99 307 P 23 09.00 -0.6
LPG 41.00 308 eP 23 09.40 -0.5
0.8s 14.80nm 4.8mb
LPL 41.01 308 eP 23 10.50 0.6
1.0s 14.00nm 4.6mb
BCAO 41.37 242 iPc 23 12.60 -0.3
0.4s 8.00nm 4.8mb
CHG 41.89 93 ePd 23 17.50 0.3
1.0s 18.75nm 4.8mb
HFS 41.93 331 eP 23 16.20 -0.7
0.8s 11.10nm 4.6mb
Z 21s 0.20um 4.0msz
LR 40 00.00
LZH 42.35 66 eP 23 21.00 0.1
2.0s 39.00nm 4.8mb
Z 30s 0.29um 4.0mszx
sP 23 40.00
SOD 42.49 345 iP 23 21.40 0.0
SMF 43.16 309 eP 23 24.50 -2.7
0.8s 10.75nm 4.6mb
SSF 43.44 310 eP 23 23.20 -6.2X
1.0s 16.00nm 4.7mb
NB2 43.45 331 P 23 28.30 -1.0
0.8s 7.10nm 4.5mb
KEV 44.34 347 iP 23 37.20 0.8
0.7s 9.30nm 4.7mb
EKA 48.78 320 P 24 11.00 -0.6
0.9s 4.20nm 4.5mb
BJI 51.66 60 eP 24 34.00 0.2
SSE 57.45 70 eP 25 15.00 -1.0
DAG 58.77 345 iPc 25 23.70 -1.0
0.7s 5.48nm 4.8mb
LKO 58.98 264 PKP 25 23.16 -3.9X
KIC 59.73 260 P 25 31.10 -1.1
TIC 59.84 261 P 25 32.00 -0.9
YKA 89.07 355 eP 28 21.30 0.6
0.8s 2.40nm 4.6mb
WB5 91.02 112 eP 28 30.00 -0.4
ASPA 92.51 115 eP 28 36.70 -0.5
0.7s 5.30nm 5.1mb
S.D. = 1.1 on 72 of 82 obs.

OCT 25, 1990 14h 32m 42.83± 0.73s
38.591 N ± 5.8km 25.541 E ± 8.6km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 4.0 (ATH). MD 3.5 (ISK).

SMG 1.35 130 eP 33 06.70 -0.9
IZM 1.36 98 iPn 33 07.50 -0.4
EZN 1.38 26 iPn 33 09.00 1.0
APE 1.52 180 eP 33 09.30 -0.8
ATH 1.56 247 eP 33 18.10 7.4X
NEO 1.94 292 eP 33 24.90 8.7X
CIN 2.24 115 eP 33 23.00 2.5

EDC 2.51 45 ePn 33 25.00 0.7
BNT 2.55 46 ePn 33 24.50 -0.4
RDO 2.55 360 eP 33 25.40 0.5
MFT 2.57 31 ePn 33 29.00 3.7X
VLI 2.79 229 eP 33 29.10 0.8
KDZ 3.06 358 eP 33 33.00 0.9
KHL 3.14 94 ePn 33 38.00 4.7X
CTT 3.38 40 ePn 33 36.00 -0.8
PVL 4.62 358 eP 33 53.00 -1.3
S.D. = 1.2 on 12 of 16 obs.

% OCT 25, 1990 15h 15m 01.24± 1.43s
41.341 N ± 12.6km 16.041 E ± 10.8km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO 0.96 216 P 15 19.90 0.4
eSg 15 33.50
DUI 1.23 286 P 15 23.00 -1.2
MGR 1.26 197 P 15 24.10 -0.5
eSg 15 41.70
SDI 1.71 283 P 15 32.50 1.2
LCI 1.77 124 P 15 32.00 0.0
eSn 15 56.70
S.D. = 1.3 on 5 of 5 obs.

OCT 25, 1990 15h 51m 16.19± 0.67s
43.445 N ± 4.5km 5.438 E ± 5.2km
DEPTH = 8.3 ± 4.2 km
NEAR SOUTH COAST OF FRANCE (379)
MD 2.5 (STR).

GELF 0.06 187 Pg 51 18.12 -0.1
TREF 0.18 348 Pg 51 19.91 -0.3
PUYF 0.21 65 Pg 51 20.22 -0.4
BERF 0.23 126 Pg 51 21.55 0.5
PRAF 0.41 332 Pg 51 24.87 0.4
VILF 0.45 26 Pg 51 25.19 -0.2
TAVF 0.48 69 Pg 51 25.63 -0.3
CALN 1.10 73 Pg 51 37.41 0.3
MVIF 1.32 69 Pn 51 40.92 0.0
Sg 52 00.45
TOUF 1.43 66 Pn 51 42.79 0.2
Sg 52 03.70
AURF 1.44 71 Pn 51 42.61 0.0
Sg 52 03.61
AUTN 1.54 68 Pn 51 44.11 -0.1
Sg 52 06.54
SAOF 1.63 70 Pn 51 45.19 0.0
PGF 2.76 108 Pn 52 00.25 -1.4
S.D. = 0.5 on 14 of 14 obs.

& OCT 25, 1990 16h 31m 54.58s
62.801 N 149.747 W
DEPTH = 77.9km
CENTRAL ALASKA (1)
<AGS-P>.

HUR 0.18 16 iP 32 06.23 1.7
eS 32 14.84
CUT 0.47 212 iP 32 07.97 0.0
eS 32 17.92
RND 0.73 33 eP 32 10.38 -0.3
eS 32 22.63
MCK 1.00 21 eP 32 13.80 -0.1
GHO 1.10 159 eP 32 14.81 -0.3
eS 32 31.08
PWA 1.16 183 eP 32 15.61 -0.1
SKT 1.17 226 iP 32 15.70 -0.2
eS 32 31.84
SML 1.20 146 eP 32 16.01 -0.3
PLRM 1.25 166 eP 32 16.70 -0.2
eS 32 34.30
SUA 1.42 200 eP 32 19.44 0.1
SCM 1.49 130 eP 32 20.29 0.1
eS 32 39.86
KNK 1.52 156 eP 32 20.16 -0.4
eS 32 41.02
PMS 1.56 177 eP 32 20.98 -0.1
eS 32 43.45
NCG 1.80 220 eP 32 24.32 -0.1
TOA 1.80 111 eP 32 25.12 0.8
NEA 1.81 9 eP 32 24.98 0.6
WRH 1.83 23 iP 32 24.04 -0.6
eS 32 45.04
CGLM 1.84 216 eP 32 25.10 0.2
SPU 1.96 215 eP 32 26.09 -0.3

SDG 1.96 96 eP 32 26.14 -0.3
eS 32 51.84
BGL 1.98 220 eP 32 27.81 1.0
DDM 2.01 59 eP 32 27.43 0.2
CKL 2.02 218 eP 32 27.10 -0.3
HDA 2.04 37 eP 32 26.57 -0.9
CCB 2.04 24 eP 32 26.71 -0.8
KLU 2.23 124 eP 32 28.67 -1.5
eS 32 55.86
FBA 2.28 21 eP 32 30.08 -0.7
GLI 2.30 146 eP 32 29.49 -1.6
VZW 2.31 138 eP 32 29.51 -1.8
SLKM 2.31 186 eP 32 33.20 1.9
VLZ 2.33 135 eP 32 29.65 -1.7
GLM 2.43 24 eP 32 32.12 -0.8
RDT 2.57 211 eP 32 36.21 1.3
KNIM 2.64 158 eP 32 37.48 1.7
34 obs. associated

OCT 25, 1990 16h 33m 33.45± 0.11s
6.189 S ± 2.6km 154.960 E ± 3.4km
DEPTH = 142.0km (geophysicist)
5.8mb (46 obs.)
SOLOMON ISLANDS (193)
Mo=1.6±10±18 Nm (PPT). Depth
from broadband displacement
seismograms.
NAUT PLANE SOLUTION: P-Waves
NP1: Strike=170 Dip=32 Slip=-117
NP2: 21 62 -74
Principal Axes:
T P1g=15 Azm= 99
P 69 324
Comment: The focal mechanism is
moderately well controlled and
corresponds to normal faulting
with a moderate left-lateral
strike-slip component. The
preferred fault plane is NP1.
RADIATED ENERGY
No. of sta: 6 Focal mech. F
Energy 7.0±2.2±10±11 Nm
MOMENT TENSOR SOLUTION
Dep 143 No. of sta: 15
Moment Tensor: Scale 10±17 Nm
Mrr=-7.03 Mtt=-1.21
Mff=8.23 Mrt=-3.24
Mrf=-2.25 Mtf=1.35
Principal axes:
T Vol= 8.90 P1g=10 Azm=101
N -0.28 21 195
P -8.62 67 347
Best Double Couple: Mo=8.8±10±17
NP1: Strike=167 Dip=39 Slip=-124
NP2: 28 58 -65
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 18S, 43C
Centroid Location:
Origin Time 16:33:38.6 0.3
Lat 6.41S 0.03 Lon 155.13E 0.02
Dep 152.6 0.7 Half-duration 3.3
Moment Tensor: Scale 10±17 Nm
Mrr=-6.83 0.15 Mtt=0.51 0.18
Mff=6.32 0.18 Mrt=-3.82 0.16
Mrf=-1.09 0.16 Mtf=-0.03 0.22
Principal Axes:
T Vol= 6.43 P1g= 6 Azm= 93
N 2.10 22 186
P -8.53 67 350
Best Double Couple: Mo=7.5±10±17
NP1: Strike=160 Dip=44 Slip=-123
NP2: 23 55 -62

RAB 3.41 305 iP+ 34 30.00 3.5X
SVO 5.64 122 iP 34 53.00 -3.2X
HNR 5.90 123 iPc 34 59.00 -0.7
iS 36 29.00
PMG 8.37 247 iPc 35 38.00 4.9X
eS 36 22.00
MNDI 11.24 270 eP 36 16.50 5.2X
CTA 16.20 211 iPd- 37 18.60 4.2X
1.0s 576.00nm 5.8mb
iS 40 19.00
CTAO 16.20 211 iPd 37 19.75 5.4X
PVC 17.37 133 iPc 37 29.20 0.4
DZM 19.30 146 iPc 37 48.70 -1.3

25d 16h

			iS	41	17.50		LTZ	39.53	160	P	40	51.90	0.0		1.5s	260.00nm	5.9mb				
			ScP	45	30.60					e	41	25.20	151kmX		Z	30s	0.56um	4.6Msz			
QIS	20.64	225	iPd	38	05.00	1.5	KHZ	39.66	158	P	40	51.80	-1.1				esPc	44	41.39		
			iS	41	50.50					e	41	25.40	152kmX				PP	46	16.50		
RMQ	21.04	196	iPd	38	08.00	0.5	COOL	40.10	228	iPc	40	56.60	-0.2				eS	52	13.13		
	0.9s	524.00nm			5.9mb		MEKA	40.19	235	eP	40	58.00	-0.5				eScS	53	30.37		
BRS	21.19	185	iPd	38	28.10	96kmX	MOZ	40.48	160	P	40	59.20	-0.4				eSS	56	24.19		
			i	38	23.50	55kmX				e	41	31.30	144kmX		SHL	68.86	300	iP	44	24.40	-0.8
			i	38	47.00		KKM	40.54	287	ePd	41	01.50	0.9				iS	53	17.00		
			eS	42	00.00			0.6s	77.40nm			5.6mb					eS	54	20.00		
GUA	21.99	333	eP	38	19.30	2.4	MMCZ	40.59	165	P	41	01.50	0.8		SDN	71.52	25	iPd	44	41.40	1.0
	1.3s	1107.69nm			6.1mb		BAG	40.76	304	eP	41	02.20	-0.2			0.8s	208.00nm			6.0mb	
GUMD	22.06	333	iPd	38	18.48	0.9				eS	47	03.00		SBA	71.89	177	eP	44	43.20	0.9	
	1.3s	86.46nm			5.0mb		MANU	41.35	243	eP	41	05.20	-1.8				eS	54	57.20		
PJG	22.06	333	eP	38	19.70	2.1		0.3s	43.00nm			5.6mb		GUN	74.67	301	P	44	58.60	-1.3	
QLP	22.71	206	iPd	38	25.40	1.5	TRT	42.03	265	iPc	41	11.60	-1.1		PKI	74.99	301	P	45	00.04	-1.6
			e	38	51.00	125kmX		0.7s	161.40nm			5.8mb		KKN	75.15	301	P	45	00.98	-1.5	
			e	39	09.00		KLB	42.97	229	iPd	41	19.80	-0.4			0.7s	87.00nm			5.6mb	
WB5	24.20	234	iPd	38	39.70	1.4		0.8s	530.00nm			6.3mb		DMN	75.26	301	P	45	01.92	-1.2	
			eS	42	53.00		MRWA	43.30	233	iPd	41	22.30	-0.6		GKN	75.76	301	P	45	04.30	-1.5
COO	24.43	186	iPc	38	40.90	0.5	BAL	43.33	231	iPd	41	22.90	-0.2		ANM	76.47	16	ePd	45	11.30	2.5X
			i	41	02.40		KAGJ	43.71	330	P	41	27.20	1.1		KDC	76.48	26	iPd	45	09.30	0.4
CMS	26.58	198	iPc	39	00.20	0.1	NWAO	44.00	228	ePd	41	29.00	0.6			0.9s	249.70nm			6.0mb	
	0.9s	172.00nm			5.7mb			Z	20s	2.10um		5.0Msz		SVW	77.26	22	iPd	45	13.30	0.0	
			i	39	32.00	153kmX		N	20s	1.00um					1.5s	310.70nm			5.8mb		
			i	40	17.10			E	20s	2.20um				WMQ	78.22	317	ePd	45	19.73	0.8	
ASPA	26.69	227	iPd	39	01.00	-0.3	MUN	44.32	230	iPd	41	31.30	0.2				esPc	46	10.06		
	0.7s	118.30nm			5.6mb			0.9s	419.00nm			6.1mb		TTA	78.29	21	iPd	45	18.30	-0.6	
Z	21s	2.80um			4.8Msz		KAKJ	44.39	343	P	41	30.40	-1.1			1.1s	147.20nm			5.6mb	
			iS	43	26.30		IIDJ	44.44	340	eP	41	29.30	-2.7X		HYB	78.98	289	eP	45	21.70	-1.8
			iScS	49	39.00		CHJJ	44.61	341	P	41	33.30	0.1			1.0s	50.00nm			5.2mb	
			i	50	47.60		RKG	44.72	227	iPd	41	36.90	2.7X				e	46	01.00	159kmX	
KNA	27.38	248	eP	39	07.20	-0.3		0.4s	220.00nm			6.2mb		GBA	79.41	285	P	45	25.00	-0.8	
STK	28.45	204	iPc	39	16.80	-0.2	KUMJ	44.84	331	P	41	36.70	1.6		PMR	80.07	24	iPd	45	27.00	-1.4
	1.3s	71.00nm			5.2mb		TATO	44.95	315	ePd	41	36.25	0.2			1.0s	477.25nm			6.2mb	
			ePP	39	53.50					esPc	42	23.76		IMA	81.06	19	iPd	45	32.70	-1.0	
			iS	43	53.40		TSRJ	45.18	338	P	41	37.70	0.0			1.2s	126.40nm			5.5mb	
			iScP	45	54.50		MAT	45.31	341	eP	41	38.00	-0.8		TOA	81.53	24	iPd	45	35.90	-0.3
BWA	28.74	191	eP	39	19.20	-0.5				eS	47	46.00				0.9s	301.90nm			6.0mb	
			i	39	55.00	174kmX	MTMJ	45.48	341	P	41	39.00	-1.3		NDI	82.28	300	eP	45	40.00	-0.7
CNB	29.44	189	iPd	39	28.00	2.1	NIIJ	45.70	342	P	41	40.80	-1.0		COL	82.38	21	ePc	45	39.22	-1.2
			e	40	03.00	168kmX	SHNJ	46.01	332	P	41	44.40	0.1		FBA	82.38	21	iPd	45	38.60	-1.9
			i	41	22.00		YAMJ	46.27	344	P	41	45.90	-0.4			1.0s	321.00nm			6.1mb	
			i	42	26.80		OFUJ	46.69	346	P	41	52.00	2.3		POO	83.57	289	iPd	45	48.00	0.5
CAN	29.51	190	eP	39	27.00	0.6	SSE	49.16	321	Pd	42	10.00	1.1		SPA	83.85	180	iPd	45	47.20	-1.0
			i	40	03.10	175kmX		1.0s	21.00nm			4.9mb				1.3s	107.50nm			5.5mb	
KUPT	31.27	261	eP	39	35.00	-7.1X		Z	18s	1.00um		4.9Msz			Z	20s	4.55um			5.8Msz	
ADE	32.32	205	eP	39	50.70	-0.4		N	14s	0.80um							i	46	24.60	148kmX	
	0.7s	212.33nm			6.0mb					sP	42	59.00		SIT	84.34	31	iPd	45	52.00	1.6	
TOO	32.41	194	iPc	39	52.70	0.9	KGM	52.20	277	eP	42	33.50	1.3		HYT	84.68	27	P	45	52.00	-0.3
	0.9s	74.00nm			5.5mb		OPA	53.78	58	P	42	43.00	-0.6		MAW	85.12	203	iPd	45	54.00	-0.3
BFD	32.86	198	eP	39	58.00	2.3				pP	43	22.00	171kmX		PCC	87.93	52	eP	46	08.00	-0.5
WARB	33.54	230	iPd	40	02.10	0.3	IPM	54.90	280	ePd	42	51.50	-0.5		BRK	88.09	52	eP	46	09.30	0.1
	0.4s	68.00nm			5.7mb			0.9s	254.00nm			6.1mb		BKS	88.11	52	eP	46	10.90	1.6	
FORR	35.17	222	eP	40	15.00	-0.5				e	43	04.10	45kmX			0.8s	100.00nm			5.9mb	
WLZ	36.67	152	eP	40	29.00	1.0				e	44	08.20		GCC	88.16	53	eP	46	09.70	0.1	
MBL	37.11	243	iPd	40	31.70	-0.3	SNG	55.82	283	eP	42	57.70	-0.9		WDC	88.31	49	eP	46	11.80	1.5
	0.3s	78.00nm			5.9mb			0.9s	183.19nm			6.0mb		MHC	88.49	52	eP	46	12.50	1.1	
TAZ	37.41	152	P	40	36.80	2.5X	BJI	58.24	326	eP	43	14.00	-1.1		PRS	88.55	53	eP	46	11.80	0.3
CNZ	37.76	153	P	40	38.20	0.9		1.5s	78.00nm			5.4mb		LLA	88.93	53	eP	46	13.80	0.5	
NGZ	37.76	153	P	40	38.40	1.0				eP	44	06.00	230kmX		ORV	88.94	50	eP	46	13.00	-0.3
PUZ	38.14	150	P	40	39.80	-0.6				eS	50	48.00		INK	88.98	21	eP	46	11.50	-1.4	
			e	41	12.90	151kmX	KMI	59.54	304	ePd	43	25.99	1.3		PRI	89.08	54	eP	46	16.30	2.1
BKB2	38.28	276	ePc	40	44.00	2.1		1.5s	170.00nm			5.8mb		SYP	89.41	55	eP	46	18.00	2.2	
NOZ	38.45	150	P	40	43.00	0.0		Z	22s	0.90um		4.9Msz		BCH	89.42	55	iP	46	17.80	2.0	
			e	41	17.40	157kmX				esPc	44	12.18					ipP	46	58.60	161kmX	
THZ	38.86	158	P	40	45.90	-0.5				iS	51	27.71		CMB	89.57	52	eP	46	16.30	-0.1	
			e	41	19.70	154kmX				esS	52	28.13		RMW	89.95	42	P	46	17.00	-0.9	
KIW	38.87	156	P	40	46.90	0.5				sS	52	28.90		FRI	89.96	53	eP	46	17.70	-0.4	
MNG	38.90	155	P	40	45.90	-0.8	CHG	60.52	296	ePd	43	30.50	-0.7		ISA	90.78	54	eP	46	23.00	1.0
	0.3s	26.00nm			5.5mb			1.1s	37.97nm			5.3mb		PAS	90.85	56	ePd	46	23.07	0.8	
TCW	38.91	157	P	40	46.90	0.2				eS	51	42.00					epPc	47	00.65	147kmX	
MRW	39.09	156	P	40	47.40	-0.8	CHTO	60.52	296	iPd	43	30.70	-0.5		MWC	90.95	56	eP	46	23.00	0.0
CAW	39.14	156	P	40	47.90	-0.7				isPc	44	18.38		SBB	91.20	55	eP	46	23.00	-0.9	
SNZO	39.16	156	ePd	40	48.73	0.0	SMY	60.91	13	P	43	34.40	1.2		QUE	91.36	300	eP	46	23.60	-1.3
			epPc	41	19.68	139kmX		1.0s	466.67nm			6.4mb					eS	56	44.50		
			esPc	41	36.73		DRV	61.26	187	eP	43	35.20	-0.2		KVN	91.48	51	eP	46	25.20	-0.1
WEL	39.16	156	P	40	48.00	-0.8	ADK	62.72	19	P	43	44.00	-1.3				epP	47	07.80	169kmX	
			S	46	33.00			0.8s	372.41nm			6.4mb		RVR	91.4						

	1.0s	66.67nm		5.8mb	EKA	127.96	344 PKP	52 25.00	1.2		0.8s	21.50nm		
		ipP	47 08.00	159kmX		0.9s	15.70nm			LRG	133.74	328 ePKP	52 34.90	-0.3
GSC	92.10	55 eP	46 20.00	0.9	VOY	128.00	326 ePKP	52 23.00	-1.3		0.8s	40.30nm		
TPC	92.59	56 eP	46 31.00	0.6	FVI	128.26	327 PKP	52 24.50	-0.1	Z 20s	0.17um			4.8Msz
NEW	93.19	42 P	46 31.60	-1.2	TRI	128.27	326 PKP	52 25.00	0.3	LMR	133.75	328 ePKP	52 35.80	0.6
	1.0s	40.00nm		5.6mb	ABH	128.58	334 ePKP	52 26.19	-1.0	1.0s	48.00nm			
		pP	47 11.60	157kmX	ENN	128.62	335 ePKP	52 26.00	0.8	MFF	134.38	336 ePKP	52 36.20	-0.1
MBC	94.94	14 eP	46 39.00	-1.2		1.1s	49.00nm			0.8s	18.80nm			
	1.0s	24.00nm		5.5mb	SQTA	128.68	329 iPKPd	52 23.80	-1.8	BCAO	136.59	270 ePKPc	52 27.80	-13.7X
YKA	95.64	28 eP	46 42.40	-1.3		0.8s	26.90nm			0.6s	28.00nm			
	0.8s	58.20nm		6.0mb		i		52 25.80			i	52 42.50		
MAIO	98.03	306 eP	46 56.00	0.9	MEM	128.70	335 PKP	52 26.20	0.9		i	55 24.80		
PV09	98.43	52 ePKP	46 58.40	1.2	OGA	129.00	329 iPKPc	52 27.20	0.8		i	56 01.00		
		epP	47 37.20	152kmX	CTI	129.21	328 PKP	52 26.50	-0.1	BCAO	136.59	270 iPKPd	52 39.84	-1.7
ALO	100.54	56 ePdiff	47 07.00	0.2	SNF	129.49	336 PKP	52 28.30	1.5	SIV	138.07	122 PKP	52 34.60	-9.6X
ANMO	100.54	56 ePdiff	47 07.80	1.1	OSS	129.58	329 ePKPd	52 27.00	-0.4	GDUD	140.93	335 e(PKP)	52 45.00	-3.8X
	1.0s	6.50nm		5.2mb	SAX	129.60	330 ePKPc	52 28.50	0.9	PPD	141.93	138 ePKP	52 46.00	-5.0X
		e	47 51.00		SLE	129.66	331 ePKPd	52 29.40	2.1	EPRU	144.42	332 e(PKP)	52 55.00	0.2
GOL	101.36	51 Pdiff	47 11.50	1.1	DOU	129.68	336 PKPd	52 29.00	1.8	EVAL	144.59	335 e(PKP)	52 54.50	-0.5
KEV	108.26	343 ePKP	51 45.00	-0.7	CDF	129.77	332 ePKP	52 26.90	-0.7	EJIF	144.95	332 e(PKP)	52 56.00	0.3
DAG	109.38	358 ePKP	51 48.00	0.4		0.8s	12.10nm			JFO	146.97	148 ePKP	53 00.30	0.8
	1.3s	17.31nm			ZLA	129.91	331 ePKPd	52 28.70	0.8	AVE	148.44	331 iPKP	53 06.50	5.0X
SOD	109.72	341 ePKP	51 50.00	1.5	LLS	130.03	330 ePKPc	52 28.30	0.0		i	53 23.00		
SUF	112.47	337 ePKP	51 51.10	-2.7X	VDL	130.05	329 ePKPc	52 29.00	0.6		i	53 45.00		
	0.6s	7.70nm			CSI	130.06	318 PKP	52 29.00	0.6	BAO	148.58	134 ePKP	53 01.40	-0.9
NUR	114.29	336 iPKP	51 58.00	0.5	ARV	130.07	324 PKP	52 29.00	0.7		e	53 43.00		
	0.7s	21.40nm			TDS	130.09	318 PKP	52 29.00	0.6	TIO	150.27	328 iPKP	53 07.70	3.2X
BBTK	118.44	312 ePKP	52 06.00	-0.2	DUI	130.23	321 PKP	52 28.00	-0.7		i	53 58.00		
		e	52 48.00		SGO	130.29	320 PKP	52 29.00	0.3	PDCR	156.72	143 ePKP	53 13.40	-0.3
HFS	118.74	339 ePKP	52 03.40	-2.6X	BSF	130.41	332 ePKP	52 28.30	-0.6		e	54 03.20		
	0.5s	7.60nm				0.9s	36.05nm			SOB1	158.01	134 ePKP	53 14.70	-0.7
Z 20s		0.35um		5.0Msz	SFI	130.44	325 PKP	52 30.00	1.1		e	53 48.40		
		LR	36 52.00		CZI	130.45	318 PKP	52 28.20	-0.8	KIC	159.82	272 PKP	53 19.70	2.4X
CLE	118.88	46 iPdiff	48 31.50	3.7X	HAU	130.49	333 ePKP	52 28.50	-0.4	LIC	160.10	271 PKP	53 18.00	0.4
PRNI	118.89	301 ePKP	52 08.00	0.8		0.8s	26.85nm			Z 20s	0.25um			
NB2	118.93	341 PKP	52 04.20	-2.2	Z 20s		0.40um		5.1Msz	LKO	160.45	281 PKP	53 16.52	-1.5
	0.8s	10.50nm			ASS	130.49	324 PKP	52 29.00	-0.1		S.D. = 1.0	on 253 of 284 obs.		
MBH	119.09	301 ePKP	52 08.00	0.5	PGD	130.54	325 PKP	52 30.20	0.9	% OCT 25, 1990 16h 37m 11.18± 1.21s				
SCH	121.11	27 ePKP	52 10.00	-0.7	CRE	130.56	325 PKP	52 27.50	-1.8	44.148 N ± 9.4km 8.192 E ± 9.4km				
BUL	121.13	242 iPKPd	52 06.30	-5.6X	SDI	130.60	322 PKP	52 28.50	-0.9	DEPTH = 10.0km (geophysicist)				
JSC	121.19	54 PKP	52 10.00	-1.4	TMA	130.62	329 ePKPd	52 29.20	-0.2	NORTHERN ITALY (545)				
KRI	121.33	246 iPKPd	52 16.00	3.6X	AZI	130.67	322 PKP	52 30.50	1.1	ML 1.8 (GEN).				
LHS	121.49	53 PKP	52 10.00	-2.0	MNS	130.89	323 PKP	52 30.00	0.1	FIN	0.06	11 P	37 12.72	-0.8
KRA	122.36	327 ePKP	52 13.70	0.6	BDI	131.05	326 PKP	52 27.50	-2.7X		S	37 14.16		
KDZ	123.05	316 ePKP	52 12.00	-2.8X	MMK	131.11	330 ePKPd	52 32.30	1.8	ROB	0.27	303 P	37 16.62	-0.4
RZN	123.51	317 ePKPc	52 15.00	-0.9	BOB	131.22	328 PKP	52 31.00	0.5		S	37 21.23		
KSP	123.79	330 iPKPc	52 16.50	0.6	DIX	131.37	330 ePKPc	52 30.50	-0.5	IMI	0.32	223 P	37 17.64	-0.3
		e	53 03.70		EMS	131.61	330 ePKPc	52 33.30	2.0		S	37 22.77		
VTS	124.13	318 ePKP	52 16.00	-1.1	CNCB	131.79	119 PKP	52 23.00	-9.9X	PCP	0.47	33 P	37 20.72	0.0
SRO	124.50	326 ePKP	52 17.50	0.1			i	52 34.00			S	37 27.08		
KKB	124.54	318 ePKPc	52 16.00	-1.7	LPB	131.80	119 PKP	52 33.00	0.2	STV	0.63	279 P	37 23.59	-0.3
ZST	124.95	327 ePKP	52 18.50	0.3	ZOBO	131.88	118 PKP	52 23.00	-10.2X		S.D. = 0.4	on 5 of 5 obs.		
CLL	125.09	332 iPKP	52 16.70	-1.7			LR	36 04.00		OCT 25, 1990 16h 54m 43.68± 0.68s				
	0.8s	51.00nm			LPL	132.10	330 ePKP	52 31.60	-0.7	49.430 N ± 6.0km 8.156 E ± 6.4km				
VAY	125.12	317 ePKP	52 16.50	-2.3		0.8s	14.80nm			DEPTH = 10.0km (geophysicist)				
	0.8s	54.00nm			LPG	132.11	330 ePKP	52 32.40	0.0	GERMANY (543)				
		i	52 19.80			0.6s	17.15nm			ML 2.8 (LDG).				
PRU	125.20	330 ePKP	52 17.50	-1.2	LOR	132.16	334 ePKP	52 31.90	-0.2	TOD	0.46	67 ePn	54 52.98	0.0
VKA	125.33	327 ePKPc	52 19.00	0.0		0.8s	17.45nm			ABH	0.60	319 ePn	54 55.74	-0.1
		e(pP)	53 06.60		Z 20s		0.38um		5.1Msz	RUP	0.76	291 ePn	54 58.97	0.3
SKO	125.58	318 ePKP	52 16.00	-3.7X	LBF	132.32	333 ePKP	52 32.20	-0.3	CDF	1.17	210 Pg	55 06.20	0.6
	1.0s	150.00nm				0.8s	8.05nm				Sg	55 23.20		
MOX	126.19	332 ePKP	52 21.50	0.9	BNI	132.46	330 PKP	52 34.00	1.1	FEL	1.56	184 ePn	55 11.96	0.4
KHC	126.23	329 PKP	52 20.00	-0.8	SSF	132.47	334 ePKP	52 32.80	0.1	BSF	1.84	210 Pn	55 15.20	-0.4
	1.0s	21.00nm				0.8s	20.15nm				Pg	55 19.80		
		e	53 04.50		SMF	132.64	333 ePKP	52 32.90	-0.1		Sg	55 44.80		
HOF	126.29	331 ePKP	52 21.60	0.7	FLN	132.74	338 ePKP	52 32.80	-0.3	HAU	1.86	221 Pn	55 15.20	-0.7
BCI	126.30	319 ePKP	52 20.20	-0.8		0.8s	18.80nm				Pg	55 19.80		
PHP	126.38	318 ePKP	52 18.30	-2.9X	Z 20s		0.20um		4.8Msz		Sg	55 44.50		
QHR	126.41	318 iPKP	52 20.00	-1.4	LDF	132.74	338 ePKP	52 32.90	-0.2		S.D. = 0.6	on 7 of 7 obs.		
	0.8s	102.00nm				0.8s	16.10nm			OCT 25, 1990 17h 00m 06.87± 1.39s				
WET	126.57	330 iPKPc	52 22.40	1.0	AVF	132.75	334 ePKP	52 32.80	-0.4	41.278 N ± 10.3km 29.345 E ± 8.0km				
WIT	126.77	337 ePKP	52 25.00	3.4X		0.8s	9.40nm			DEPTH = 10.0km (geophysicist)				
LACI	126.88	319 ePKP	52 21.60	-0.6	PGF	132.92	326 ePKP	52 34.40	0.6	TURKEY (366)				
PTJ	126.92	325 ePKP	52 21.00	-1.3	BGF	133.15	334 ePKP	52 33.30	-0.7	MD 2.9 (ISK).				
TIR	126.92	318 ePKP	52 20.00	-2.3		0.8s	22.85nm			ISK	0.30	225 ePg	00 14.00	0.8
GRF	127.02	331 ePKP	52 22.30	0.1	GRR	133.19	338 ePKP	52 33.90	-0.1	GBZT	0.49	171 ePg	00 16.60	-0.3
Z 20s		0.10um		4.5Msz		0.8s	18.80nm				iSg	00 23.00		
		e(pP)	54 24.00		FRF	133.52	328 ePKP	52 34.40	-0.4	HRT	0.52	152 ePg	00 16.50	-0.9
WTS	127.33	336 ePKP	52 25.00	2.3		0.8s	21.50nm			CTT	0.70	260 iPg	00 20.20	-0.5
	1.0s	40.00nm			LPF	133.55	338 ePKP	52 33.90	-0.8		eSg	00 29.90		
BHG	127.49	328 ePKP	52 23.50	0.3	TCF	133.64	334 ePKP	52 34.50	-0.5					
	1.0s	41.00nm												
LJU	127.64	326 e(PKP)	52 42.50	19.0X										

25d 17h

IZI 0.95 174 iPg 00 24.50 -0.4
 GPA 1.23 143 ePn 00 31.00 1.2
 KCT 1.27 216 iPn 00 30.50 0.0
 DMK 1.31 295 ePn 00 31.00 -0.1
 BNT 1.42 230 ePn 00 32.90 0.2
 S.D. = 0.8 on 9 of 9 obs.

* OCT 25, 1990 17h 29m 17.56±1.07s
 35.846 N ±13.1km 140.002 E ±12.3km
 DEPTH = 109.7 ± 9.6 km
 4.3mb (3 obs.)
 NEAR EAST COAST OF HONSHU, JAPAN(228)

KAKJ 0.38 21 iP+ 29 33.80 0.0
 CHJJ 0.84 284 P 29 36.50 -0.9
 MAT 1.61 296 iPd 29 45.10 -1.0
 NIJJ 1.61 330 iPd 29 45.00 -1.0
 IIDJ 1.74 259 iPd 29 48.90 1.1
 MTMJ 1.92 293 P 29 49.70 -0.4
 YAMJ 2.32 1 P 29 55.70 0.5
 TSRJ 3.29 266 P 30 09.80 1.7
 OFUJ 3.49 22 P 30 11.90 1.0
 PKI 46.66 276 P 37 43.20 6.0X
 WB5 55.68 186 eP 38 39.50 -5.0X
 ASPA 59.47 186 eP 39 10.20 -0.9
 NB2 74.84 337 P 40 47.30 0.0
 S.D. = 1.1 on 11 of 13 obs.

* OCT 25, 1990 17h 36m 20.29±0.87s
 11.141 S ±10.4km 162.121 E ±11.5km
 DEPTH = 33.0km (normol)
 4.2mb (2 obs.)
 SOLOMON ISLANDS (193)

HNR 2.73 308 iPc 37 03.00 0.2
 SVO 3.01 311 iP 37 07.00 0.2
 BKM 8.79 138 iPd 38 27.40 -0.7
 DZM 11.63 160 iP 39 08.10 1.0
 CTA 17.67 238 iPd 40 29.30 3.6X
 RMO 19.80 218 iP 40 51.40 0.4
 COO 21.55 205 eP 41 08.00 -1.0
 QIS 23.57 244 eP 41 30.80 1.8
 CMS 25.24 214 eP 41 46.00 1.1
 STK 28.02 219 eP 42 10.60 0.1
 ASPA 29.60 241 eP 42 22.40 -2.5
 FORR 37.11 233 eP 43 29.80 0.2
 MBL 41.71 251 eP 44 07.00 -0.9
 NANU 45.84 249 eP 44 41.00 -0.3
 AQU 138.64 324 PKP 55 39.60 -5.4X
 SDI 138.81 323 PKP 55 51.00 5.7X
 MNS 139.03 325 PKP 55 45.50 -0.2
 BAO 143.34 262 ePKPd 55 49.20 -4.9X
 SOB1 149.46 131 ePKP 56 04.60 0.5
 S.D. = 1.1 on 15 of 19 obs.

OCT 25, 1990 17h 41m 48.74±0.23s
 63.069 N ±2.5km 151.005 W ±2.9km
 DEPTH = 138.3 ± 2.8 km
 4.3mb (16 obs.)
 CENTRAL ALASKA (1)
 Felt (IV) at Skwentno and (III)
 at Anchorage. Also felt at
 Palmer.

HUR 0.63 98 eP 42 10.15 0.4
 CUT 0.75 153 iP 42 10.91 0.3

RND 1.03 70 iP 42 13.65 0.6
 SKT 1.12 193 iP 42 13.84 0.0
 MCK 1.15 54 iP 42 14.96 0.9
 PWA 1.52 159 iP 42 18.19 0.3
 SUA 1.62 176 eP 42 19.34 0.1
 GHO 1.62 142 iP 42 19.44 0.2
 PLRM 1.72 149 iP 42 19.98 -0.3
 PMR 1.72 149 iPc 42 20.00 -0.2
 NEA 1.74 29 iP 42 20.79 0.3
 NCG 1.76 198 iP 42 20.60 -0.2
 SML 1.77 134 iP 42 20.88 -0.1
 CGLM 1.83 195 eP 42 21.32 -0.3
 CRP 1.89 197 eP 42 22.37 0.0
 WRH 1.91 41 iP 42 23.14 0.6
 BGL 1.93 200 eP 42 22.96 0.2
 PMS 1.95 159 eP 42 22.89 -0.2
 SPU 1.96 195 iP 42 22.80 -0.3
 CKL 1.98 199 iP 42 23.42 -0.1
 KNK 2.05 143 iP 42 23.95 -0.2
 SCM 2.11 124 eP 42 24.76 -0.3
 CCB 2.13 40 iP 42 25.62 0.5
 HDA 2.25 52 eP 42 26.98 0.4
 TTA 2.29 269 iPd 42 27.10 -0.1
 FBA 2.32 36 iPc 42 28.10 0.6
 NKA 2.34 183 eP 42 30.10 2.4
 DDM 2.42 70 eP 42 29.39 0.5
 TOA 2.44 111 iPc 42 29.80 0.7
 GLM 2.50 38 iP 42 30.47 0.6
 SDG 2.57 100 eP 42 31.05 0.4
 RDT 2.59 195 eP 42 30.75 -0.3
 SLKM 2.60 171 eP 42 30.67 -0.4
 RSO 2.75 198 eP 42 32.80 -0.3
 RED 2.79 198 eP 42 33.41 -0.2
 KLU 2.85 121 eP 42 33.60 -0.8
 GLI 2.87 138 eP 42 33.81 -0.7
 VZW 2.91 132 eP 42 34.23 -0.9
 SVW 2.93 230 iPd 42 35.00 -0.4
 VLZ 2.93 129 eP 42 34.30 -1.0
 NNL 3.04 183 eP 42 37.94 1.2
 SEW 3.07 165 eP 42 36.58 -0.5
 KNIM 3.14 149 eP 42 36.63 -1.5
 DOT 3.18 76 eP 42 38.67 0.0
 IMA 3.23 340 iPc 42 39.50 0.2
 BRK 3.32 179 eP 42 38.19 -2.2
 HIN 3.43 139 eP 42 41.56 -0.4
 HOM 3.44 185 eP 42 42.31 0.4
 MTU 3.48 151 eP 42 41.70 -0.9
 CVA 3.55 133 iP 42 43.32 -0.1
 CNPM 3.56 182 eP 42 43.16 -0.4
 OPT 3.59 198 eP 42 44.38 0.4
 PDB 3.63 206 eP 42 44.47 0.0
 TMW 3.64 82 eP 42 44.38 -0.2
 XLV 3.64 186 eP 42 47.08 2.4
 GLB 3.74 113 iP 42 45.78 -0.2
 SGAM 3.77 131 eP 42 45.54 -0.8
 AUE 3.89 198 eP 42 50.79 2.8
 RAGM 4.04 129 eP 42 49.50 -0.5
 MCNL 4.22 204 eP 42 52.41 0.1
 FYU 4.29 33 eP 42 53.17 -0.1
 MID 4.29 146 ePd 42 53.90 0.6
 CDD 4.35 198 eP 42 53.44 -0.7
 KAIM 4.46 132 eP 42 54.70 -0.9
 TGL 4.51 117 eP 42 55.64 -0.7
 BALM 4.56 113 eP 42 56.34 -0.7
 WAX 4.68 120 eP 42 57.88 -0.7
 WRG 5.26 121 eP 43 06.69 0.4
 DWY 5.27 74 P 43 06.20 -0.2
 KDC 5.39 189 iPc 43 06.40 -1.6

ANM 6.53 290 eP 43 24.06 0.5
 HYT 6.75 103 P 43 26.00 -0.7
 INK 8.90 46 P 43 55.00 -0.3
 SIT 9.87 120 iPd 44 07.80 -0.4
 YKA 16.52 76 eP 45 33.40 0.1
 PNT 21.94 114 eP 46 35.00 3.6X
 NEW 23.80 113 P 46 51.00 1.5
 FFC 26.05 86 eP 47 11.00 0.7
 LBFM 27.69 128 P 47 27.50 1.9
 CMB 31.16 129 P 47 59.00 2.8
 TNP 32.28 125 P 48 07.00 1.0
 GOL 35.70 109 P 48 37.00 139kmX
 DAG 37.26 16 iPc 48 47.60 -0.2
 ANMO 39.26 114 P 49 06.00 0.9
 ALO 39.27 114 eP 49 06.00 0.8
 FVM 43.75 96 P 49 41.00 -0.5
 RSNY 45.69 76 P 49 57.00 0.2
 KEV 47.45 1 eP 50 27.00 16.7X
 TKL 48.68 91 P 50 20.20 -0.1
 BLA 48.93 87 P 50 22.30 0.1
 SOD 49.84 1 iP 50 28.20 -0.5
 JSC 50.97 90 P 50 37.60 -0.1
 SUF 54.51 2 iP 51 02.40 -1.1
 SUF 54.51 2 ePc 51 02.90 -0.6
 NB2 55.48 10 P 51 09.00 -1.6
 APO 56.18 9 eP 51 13.20 -2.4
 NUR 56.70 3 eP 51 18.00 -1.2
 S.D. = 0.9 on 95 of 97 obs.

* OCT 25, 1990 17h 47m 33.09±3.42s
 38.769 N ±19.3km 30.229 E ±36.3km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.1 (ISK).

KHL 0.71 231 iPg 47 47.00 -0.2
 GPA 1.52 2 ePn 48 01.20 0.9
 IZI 1.67 340 iPn 48 00.50 -2.1
 HRT 2.09 348 ePn 48 08.00 0.2
 BBTK 2.24 61 iPc 48 18.00 7.1X
 IZM 2.35 262 ePn 48 15.00 2.6X
 BNT 2.39 312 ePn 48 14.00 1.1
 S.D. = 1.8 on 5 of 7 obs.

* OCT 25, 1990 18h 17m 09.06±0.93s
 37.028 N ±10.0km 29.443 E ±7.3km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.4 (ISK).
 ELL 0.47 127 iPg 17 18.60 0.0
 BCK 1.01 64 iPn 17 28.20 -0.1
 CIN 1.22 298 eP 17 32.00 0.2
 KHL 1.29 3 iPn 17 33.20 0.1
 IZM 2.20 309 ePn 17 46.00 -0.3
 BNT 3.53 341 ePn 18 15.00 10.0X
 S.D. = 0.3 on 5 of 6 obs.

* OCT 25, 1990 18h 38m 54.94±1.11s
 36.948 N ±12.4km 29.424 E ±7.9km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 3.6 (ISK).
 ELL 0.44 117 iPg 39 04.00 0.1

BCK 1.06 61 iPn 39 14.80 -0.2
 CIN 1.25 302 eP 39 18.00 -0.1
 KHL 1.37 3 iPn 39 19.70 -0.5
 IZM 2.24 311 ePn 39 32.40 -0.3
 BNT 3.60 341 ePn 39 53.00 1.1
 BBTk 3.90 41 eP 40 16.00 19.7X
 S.D. = 0.7 on 6 of 7 obs.

& OCT 25, 1990 18h 57m 19.36s
 60.127 N 150.809 W
 DEPTH = 36.6km
 KENAI PENINSULA, ALASKA (14)
 <AGS-P>.

NNL 0.26 251 iP 57 27.62 0.7
 BRk 0.37 186 iP 57 27.70 -0.5
 eS 57 34.27
 SLKM 0.48 37 iP 57 29.37 -0.4
 HOM 0.63 222 eP 57 30.90 -0.9
 CNPM 0.64 200 iP 57 31.15 -0.8
 eS 57 40.29
 NKA 0.65 341 eP 57 33.29 1.2
 SEW 0.68 91 iP 57 31.53 -1.0
 eS 57 41.46
 XLV 0.82 215 iP 57 33.41 -1.1
 eS 57 44.00
 RDT 0.91 300 iP 57 35.19 -0.7
 RED 1.02 288 eP 57 36.59 -0.9
 RSO 1.03 290 eP 57 36.86 -0.8
 SPU 1.22 330 iP 57 39.78 -0.5
 eS 57 55.84
 PMS 1.28 28 eP 57 40.88 -0.2
 eS 57 57.18
 OPT 1.31 250 eP 57 40.90 -0.6
 CKL 1.31 326 eP 57 41.01 -0.6
 eS 57 58.02
 CGLM 1.32 334 eP 57 41.34 -0.4
 SUA 1.34 1 eP 57 41.64 -0.4
 BGL 1.38 326 eP 57 42.26 -0.3
 NCG 1.44 333 eP 57 43.38 -0.1
 eS 58 02.34
 AUI 1.55 240 eP 57 44.63 -0.3
 KNIM 1.55 80 eP 57 43.32 -1.7
 MTU 1.59 94 eP 57 46.37 0.8
 PLRM 1.68 28 eP 57 45.97 -0.9
 KNK 1.73 41 eP 57 46.58 -1.1
 PDB 1.74 260 eP 57 46.59 -1.1
 eS 58 08.12
 CDD 1.88 231 eP 57 49.54 -0.2
 GHO 1.89 28 eP 57 49.06 -0.9
 GLI 1.99 66 eP 57 48.68 -2.5
 MCNL 2.02 244 eP 57 50.96 -0.8
 SML 2.07 35 eP 57 50.68 -1.8
 VZW 2.30 64 eP 57 53.45 -2.2
 CUT 2.30 6 eP 57 55.59 -0.1
 VLZ 2.43 64 eP 57 55.39 -2.0
 KLU 2.76 58 eP 58 00.50 -1.8

34 obs. associated

% OCT 25, 1990 19h 48m 40.35 ± 0.65s
 16.199 N ± 6.6km 61.406 W ± 5.6km
 DEPTH = 10.0km (geophysicist)
 LEEWARD ISLANDS (92)
 ML 1.9 (FDF).

SFG 0.21 75 ePd 48 45.27 0.4
 S 48 49.40
 SEG 0.22 335 iPc 48 45.16 0.0
 S 48 49.10
 DOG 0.26 231 ePd 48 46.12 0.2
 PAG 0.31 237 eP 48 46.70 -0.2
 S 48 51.10
 DEG 0.35 71 iPd 48 47.25 -0.4
 BBL 0.68 186 eP 48 53.70 -0.1

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

% OCT 25, 1990 20h 28m 10.89 ± 0.97s
 41.895 N ± 9.5km 13.982 E ± 8.2km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN ITALY (390)

SDI 0.23 213 Pc 28 15.60 -0.2
 eSg 28 19.10
 AZI 0.42 283 P 28 19.40 0.0
 eSg 28 26.10
 DUI 0.43 123 P 28 19.70 0.1
 eSg 28 25.50

AQU 0.63 317 P 28 23.00 -0.6
 eSg 28 33.90
 MNS 1.09 297 P 28 32.00 0.7
 S.D. = 0.6 on 5 of 5 obs.

OCT 25, 1990 21h 10m 25.30 ± 0.54s
 19.064 S ± 8.3km 169.253 E ± 8.0km
 DEPTH = 245.1 ± 6.2 km
 4.6mb (5 obs.)

VANUATU ISLANDS (186)

PVC 1.59 326 iPc 11 04.50 0.4
 iS 11 33.50
 BKM 1.69 325 iPd 11 04.30 -0.6
 iS 11 32.00
 DZM 3.98 221 iPc 11 29.40 0.1
 iS 12 23.00
 HNR 13.15 315 eP 13 25.00 0.6
 RMO 20.28 245 eP 14 43.00 -0.6
 MNG 22.14 167 P 15 02.20 0.6
 0.4s 11.00nm 4.7mb
 KIW 22.26 169 P 15 03.30 0.5
 PGZ 22.31 166 P 15 03.50 0.2
 TCW 22.49 170 eP 15 05.30 0.3
 CAW 22.53 168 P 15 05.30 -0.1
 MRW 22.58 169 P 15 06.00 0.1
 MTW 22.66 168 P 15 06.10 -0.6
 WDW 22.67 169 eP 15 06.50 -0.2
 BLW 22.86 168 eP 15 07.90 -0.7
 MOW 22.87 168 P 15 08.20 -0.5
 PMG 23.45 291 eP 15 15.50 1.2X
 LTZ 23.78 174 P 15 17.50 0.2
 BWA 24.02 226 eP 15 18.80 -0.8
 CAN 24.15 224 eP 15 21.90 1.1
 CMS 24.47 235 ePc 15 24.10 0.4
 STK 27.95 237 iPd 15 55.60 0.3
 0.7s 11.00nm 4.6mb
 WB5 32.87 263 eP 16 37.10 -1.3
 ASPA 33.19 256 iPd 16 40.70 -0.4
 0.3s 217.50nm 6.3mb X
 FORR 38.91 244 eP 17 29.00 0.0
 0.4s 9.00nm 4.7mb
 WARB 39.83 252 iPc 17 37.30 0.7
 0.4s 9.00nm 4.6mb
 MBL 46.31 259 iPd 18 29.00 0.3
 0.3s 10.00nm 4.6mb
 S.D. = 0.6 on 25 of 26 obs.

& OCT 25, 1990 21h 11m 39.30s
 38.032 N 119.163 W
 DEPTH = 10.0km
 CALIFORNIA-NEVADA BORDER REGION (40)
 <BRK>. ML 3.9 (BRK), 3.3 (PAS).

MNA 0.89 63 ePc 11 55.40 -1.0
 CMB 0.96 271 iP 11 56.70 -1.0
 FRI 1.13 203 iP 11 59.70 -0.7
 KVN 1.32 39 eP 12 02.00 -0.9
 TNP 1.54 88 eP 12 05.00 -2.0
 ARN 2.00 251 eP 12 13.80 0.3
 LLA 2.00 226 iP 12 14.60 1.0
 MHC 2.08 251 ePc 12 15.50 0.7
 iS 12 42.20
 PKEM 2.11 201 eP 12 16.50 1.4
 SAO 2.21 236 iP 12 17.50 0.9
 PRI 2.24 213 iPc 12 18.60 1.5
 ORV 2.38 311 iP 12 19.80 0.9
 PHAM 2.40 205 eP 12 19.90 0.6
 ISA 2.43 167 eP 12 21.90 2.2
 BKS 2.43 267 eP 12 20.60 0.9
 ZSP 2.45 269 eP 12 21.00 1.1
 PRS 2.45 227 iPc 12 20.90 1.0
 BRK 2.45 267 e(P) 12 20.20 0.2
 GCC 2.46 247 ePd 12 20.20 0.1
 PCC 2.61 259 ePc 12 22.60 0.4
 BCH 2.94 195 eP 12 26.80 -0.2
 MIN 2.99 321 eP 12 32.50 4.8
 ABL 3.18 181 eP 12 29.80 -0.7
 WDC 3.65 315 e(P) 12 39.20 2.2

24 obs. associated

% OCT 25, 1990 21h 56m 31.63 ± 0.77s
 40.746 N ± 6.4km 23.185 E ± 6.3km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)

SOH 0.15 59 iPd 56 34.85 -0.3

THE 0.20 236 eS 56 36.72
 ePc 56 35.46 -0.6
 eS 56 38.85
 KNT 0.47 333 iPc 56 40.93 -0.2
 eS 56 47.48
 SRS 0.48 40 iPc 56 41.57 0.1
 iS 56 47.36
 GRG 0.63 290 iPd 56 44.10 -0.2
 iS 56 54.21
 VAY 0.74 321 ePn 56 46.70 0.6
 LIT 0.83 220 ePd 56 48.40 0.6
 S.D. = 0.6 on 7 of 7 obs.

OCT 25, 1990 22h 11m 18.78 ± 0.71s
 33.981 N ± 5.9km 25.962 E ± 4.3km
 DEPTH = 34.2 ± 7.7 km
 4.4mb (22 obs.) 3.3Msz (3 obs.)
 EASTERN MEDITERRANEAN SEA (371)
 MD 4.3 (ATH), 4.2 (HLW).

NPS 1.31 347 ePb 11 42.50 1.5
 KAP 1.86 32 ePn 11 50.30 1.5
 VAM 2.03 315 ePn 11 53.40 2.1
 ARG 2.85 38 ePn 12 04.30 1.4
 APE 3.10 354 ePn 12 06.70 0.2
 KSL 3.66 53 ePn 12 14.60 0.3
 VLI 3.68 319 ePn 12 14.70 0.0
 SMG 3.79 11 ePn 12 15.50 -0.7
 CIN 4.00 25 eP 12 20.00 0.7
 ELL 4.25 48 iPn 12 23.60 0.7
 IZM 4.53 13 ePn 12 27.00 0.1
 ITM 4.58 315 ePn 12 27.10 -0.4
 BCK 5.12 46 iPn 12 35.20 -0.1
 KHL 5.20 33 iPn 12 32.80 -3.6X
 NEO 5.75 338 ePn 12 44.70 0.6
 EZN 5.84 3 iP 12 44.70 -0.6
 EVR 5.95 327 ePn 12 48.40 1.4
 HLW 6.15 130 ePc 12 50.50 0.8
 eS 13 55.00
 CSS 6.16 79 eP 12 50.00 0.1
 eSn 13 57.80
 KOT 6.42 127 ePn 12 51.00 -2.4
 eSn 13 55.00
 KZN 7.14 333 ePn 13 05.30 1.6
 KEK 7.56 321 ePn 13 08.70 -0.7
 RZN 7.76 353 eP 13 13.00 0.6
 MMB 7.80 348 eP 13 12.00 -0.8
 VAY 7.80 341 ePn 13 14.40 1.6
 i 13 31.00
 ZNT 7.81 100 eP 13 09.00 -3.9X
 eS 14 32.00
 BBTk 7.99 41 eP 13 16.00 0.4
 KKB 8.19 345 eP 13 17.00 -1.3
 OHR 8.21 332 ePn 13 19.00 0.4
 DSI 8.29 104 eP 13 16.30 -3.2
 BURJ 8.44 99 P 13 17.90 -3.8X
 MBH 8.67 117 eP 13 23.50 -1.3
 SKO 8.74 337 ePn 13 22.40 -3.4X
 N 14s 1.71um
 E 14s 2.27um

SHWJ 8.84 111 P 13 15.30 -12.1X
 VTS 8.86 347 eP 13 37.00 9.3X
 LCI 9.00 317 P 13 25.50 -3.9X
 HOL 9.06 119 ePd 13 28.00 -2.2
 BADA 9.46 123 ePd 13 31.50 -4.2X
 ATN 9.47 299 P 13 34.10 -1.7
 CZI 9.47 306 P 13 33.60 -2.3
 eS 15 08.00
 MEU 9.51 292 P 13 34.20 -2.4
 MMN 9.92 309 P 13 40.20 -1.8
 MGR 10.34 309 P 13 44.50 -3.3X
 GIB 10.46 296 P 13 51.00 1.4
 FAI 10.53 292 P 13 52.00 1.6
 DUI 11.89 313 P 14 12.40 3.5X
 SDI 12.31 312 P 14 11.00 -3.5X
 MNS 13.39 313 P 14 28.50 -0.3
 ASS 13.80 315 P 14 44.50 10.3X
 ARV 13.90 317 P 14 36.00 0.5
 TRI 14.98 325 P 14 50.00 0.5
 VOY 15.16 326 e(P) 14 56.30 4.3X
 ZST 15.68 338 eP 15 03.60 5.0X
 FVI 16.09 325 P 15 08.00 4.1X
 CTI 16.26 322 P 15 05.50 -0.7
 KRA 16.66 346 eP 15 10.10 -1.1
 SOTA 17.29 324 iPc 15 21.80 2.6X
 0.8s 20.80nm 4.3mb
 i 15 32.50

25d 22h

OSS 17.46 321 ePc 15 24.50 3.1X
 VDL 17.69 320 ePd 15 27.50 3.2X
 KHC 17.71 332 eP 15 24.00 -0.3
 19 03.40
 FUR 17.94 327 eP 15 27.20 0.1
 1.3s 48.00nm 4.5mb
 WET 18.00 331 iPc 15 28.90 1.1
 PRU 18.07 336 eP 15 25.00 -3.7X
 N 13s 0.40um
 E 13s 0.60um
 15 47.50
 LLS 18.19 320 ePc 15 31.60 1.3
 SAX 18.25 322 ePc 15 30.70 -0.5
 KSP 18.27 340 eP 15 29.00 -2.2
 BNI 18.49 312 P 15 32.00 -2.0
 LPL 18.69 314 eP 15 38.65 2.1
 0.8s 4.05nm 3.7mb
 EMS 18.87 315 ePd 15 40.40 1.7
 SLE 19.02 322 ePc 15 39.00 -1.4
 GRF 19.10 330 eP 15 40.80 -0.5
 Z 15s 0.40um
 FEL 19.34 321 P 15 42.28 -1.9
 LOMF 19.65 318 P 15 46.47 -1.2
 MOX 19.69 332 e(P) 15 52.00 4.1X
 CLL 19.72 335 iP 15 47.60 -0.6
 1.3s 17.00nm 4.2mb
 MOF 19.79 320 P 15 49.11 0.1
 BSF 19.96 320 eP 15 49.90 -1.0
 1.0s 12.00nm 4.2mb
 ECH 20.00 321 P 15 49.98 -1.2
 WLS 20.02 322 P 15 50.26 -1.2
 CDF 20.06 322 P 15 50.77 -1.1
 GWF 20.25 323 P 15 52.51 -1.3
 HAU 20.30 319 eP 15 56.20 1.8
 0.8s 13.45nm 4.3mb
 Z 20s 0.03um 2.7msz
 LOR 21.30 315 eP 16 04.20 -0.4
 1.0s 8.00nm 4.1mb
 Z 20s 0.17um 3.4msz
 SSF 21.40 314 eP 16 05.50 -0.1
 1.0s 12.00nm 4.3mb
 BGF 21.56 313 eP 16 09.50 2.3
 0.8s 21.50nm 4.6mb
 RJF 21.87 308 eP 16 10.10 -0.2
 0.8s 13.45nm 4.4mb
 Z 20s 0.25um 3.6msz
 MEM 22.11 325 P 16 12.80 0.2
 ENN 22.26 325 eP 16 15.00 1.0
 1.0s 22.00nm 4.6mb
 DOU 22.49 322 P 16 12.80 -3.5X
 WTS 22.69 328 eP 16 30.00 11.7X
 16 45.00
 NUR 26.55 359 iP 16 53.30 -1.7
 16 59.00
 HFS 27.37 347 eP 17 01.40 -1.1
 0.4s 1.10nm 3.9mb
 MAIO 27.44 76 eP 17 05.00 1.4
 NB2 28.71 345 P 17 12.20 -2.4
 0.4s 0.80nm 3.8mb
 SUF 28.76 0 eP 17 12.90 -2.1
 0.6s 3.30nm 4.2mb
 BCAO 30.20 195 iPc 17 30.30 1.9
 0.5s 10.00nm 4.9mb
 i 17 37.50
 SOD 33.43 0 eP 17 55.00 -1.1
 KEV 35.83 1 eP 18 21.00 4.4X
 LKO 37.81 237 P 18 35.38 1.5
 TIC 39.50 234 P 18 52.70 4.7X
 KIC 39.52 233 P 18 50.00 1.8
 GKN 50.07 80 P 20 13.96 1.3
 1.0s 25.00nm 5.2mb
 DMN 50.61 80 P 20 18.26 1.4
 0.9s 16.00nm 5.0mb
 KKN 50.68 80 P 20 18.32 1.0
 0.7s 14.00nm 5.1mb
 PKI 50.87 80 P 20 19.80 0.9
 0.7s 7.00nm 4.7mb
 GUN 51.12 80 P 20 21.66 0.8
 0.9s 22.00nm 5.1mb
 CHG 65.88 83 eP 22 15.70 12.2X
 YKA 78.77 343 eP 23 22.50 3.4X
 0.6s 1.10nm 4.0mb
 FFC 80.98 332 eP 23 33.00 1.9
 0.7s 6.00nm 4.7mb
 S.D. = 1.4 on 83 of 109 obs.

? OCT 25, 1990 22h 45m 39.68 ± 4.76s
 41.397 N ± 32.6km 29.442 E ± 17.6km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 2.1 (ISK).

ISK 0.44 221 iPg 45 48.50 -0.1
 HRT 0.60 163 ePg 45 51.60 -0.2
 45 58.60
 CTT 0.80 252 ePg 45 55.30 0.0
 IZI 1.06 179 ePg 46 00.00 0.3
 S.D. = 0.4 on 4 of 4 obs.

OCT 26, 1990 00h 09m 26.17 ± 0.97s
 34.094 N ± 6.6km 25.821 E ± 4.3km
 DEPTH = 27.5 ± 7.4 km
 4.2mb (10 obs.)

CRETE (370)
 MD 4.2 (ATH).

NPS 1.18 352 ePn 09 48.30 1.4
 KAP 1.83 37 ePn 09 56.70 0.4
 VAM 1.87 315 ePn 09 59.90 3.0X
 ARG 2.84 41 ePb 10 15.70 5.1X
 APE 2.98 356 ePn 10 14.80 2.1
 VLI 3.52 319 ePn 10 21.70 1.3
 KSL 3.69 56 ePn 10 21.10 -1.6
 ELL 4.26 50 iPn 10 30.00 -1.0
 IZM 4.45 15 ePn 10 34.70 1.1
 BCK 5.13 48 iPn 10 42.20 -1.0
 KHL 5.17 34 ePn 10 43.00 -0.9
 EZN 5.74 4 eP 10 50.80 -0.9
 CSS 6.26 80 eP 10 57.50 -1.6
 12 04.70
 HLW 6.31 131 eP 11 00.40 0.6
 12 01.00
 KOT 6.58 127 ePn 10 58.50 -5.0X
 KEK 7.40 321 ePn 11 15.40 0.4
 VAY 7.66 341 ePn 11 20.00 1.3
 ZNT 7.94 101 eP 11 16.00 -6.7X
 BBTk 7.98 42 eP 10 28.00 -55.4X
 OHR 8.06 332 ePn 11 24.20 -0.1
 JVI 8.29 102 eP 11 21.00 -6.5X
 12 48.00
 SKO 8.59 338 ePn 11 23.00 -8.6X
 PRNI 8.62 113 eP 11 26.00 -6.2X
 12 56.00
 LCI 8.84 317 P 11 32.30 -2.7X
 HOL 9.22 119 eP 11 34.00 -6.3X
 ATN 9.31 299 P 11 40.70 -0.9
 13 19.40
 CZI 9.31 306 P 11 40.60 -1.0
 13 12.50
 MEU 9.36 292 P 11 41.20 -1.2
 13 22.20
 TDS 9.41 309 P 11 43.60 0.7
 13 23.30
 ORI 9.57 311 P 11 44.10 -1.0
 11 40.70
 BADA 9.62 123 eP 11 40.70 -5.1X
 MGR 10.17 309 P 11 52.00 -1.5
 GIB 10.31 296 P 11 56.50 1.1
 SGO 10.56 311 P 11 56.70 -2.1
 SOTA 17.13 324 iPc 13 28.10 2.9X
 0.9s 8.80nm 3.9mb
 i 13 30.90

KHC 17.56 333 eP 13 35.00 4.6X
 BSF 19.80 320 eP 13 58.20 0.9
 0.8s 8.05nm 4.1mb
 CDF 19.90 322 eP 13 57.80 -0.6
 0.8s 6.70nm 4.0mb
 HAU 20.14 319 eP 14 00.20 -0.6
 0.8s 5.35nm 3.9mb
 MEM 21.95 325 P 14 22.60 3.4X
 DOU 22.33 322 P 14 32.60 9.7X
 HFS 27.24 347 eP 15 06.90 -2.6X
 0.4s 1.10nm 3.9mb
 NB2 28.57 345 P 15 19.20 -2.4X
 0.5s 0.70nm 3.6mb
 BCAO 30.28 195 iPc 15 36.70 -0.6
 0.6s 4.00nm 4.4mb
 LKO 37.77 237 P 16 41.94 0.1
 KIC 39.50 233 P 16 56.40 0.2
 GKN 50.17 80 P 18 22.36 0.7
 0.9s 13.00nm 5.0mb
 DMN 50.70 80 P 18 26.72 0.9
 0.8s 9.00nm 4.8mb

KKN 50.77 80 P 18 28.06 1.7
 PKI 50.96 80 P 18 27.70 -0.2
 GUN 51.22 80 P 18 31.04 1.2
 0.7s 7.00nm 4.7mb
 S.D. = 1.2 on 34 of 51 obs.

OCT 26, 1990 00h 17m 50.58 ± 0.68s
 33.979 N ± 4.4km 25.941 E ± 3.5km
 DEPTH = 30.9 ± 5.4 km
 4.5mb (29 obs.) 3.9msz (4 obs.)
 EASTERN MEDITERRANEAN SEA (371)
 ML 4.3 (ATH). MD 4.2 (HLW).

NPS 1.31 348 ePn 18 14.00 1.1
 KAP 1.87 33 ePn 18 22.80 1.8
 VAM 2.02 315 ePn 18 25.60 2.4
 ARG 2.86 38 ePn 18 36.70 1.6
 APE 3.10 354 ePn 18 38.60 0.0
 KSL 3.67 53 ePn 18 46.80 0.2
 VLI 3.67 319 ePn 18 47.20 0.6
 SMG 3.79 11 ePn 18 47.80 -0.4
 CIN 4.01 25 eP 18 53.00 1.6
 ELL 4.26 48 iPn 18 56.00 0.9
 ATH 4.37 336 ePn 19 00.00 3.4
 IZM 4.54 13 ePn 18 59.20 0.2
 BCK 5.13 46 iPn 19 08.20 0.8
 KHL 5.21 33 ePn 19 07.30 -1.3
 NEO 5.75 338 ePn 19 16.80 0.8
 EZN 5.84 3 ePn 19 16.30 -1.0
 EVR 5.95 327 ePn 19 20.70 1.8
 HLW 6.16 130 ePd 19 22.00 0.2
 20 23.00
 CSS 6.18 79 eP 19 21.80 -0.4
 20 29.00
 KOT 6.43 127 ePn 19 23.50 -2.1
 20 58.50
 BNT 6.56 13 eP 19 26.00 -1.4
 KZN 7.14 333 ePn 19 37.40 1.8
 HRT 7.45 22 eP 19 39.00 -0.9
 LSK 7.49 327 ePn 19 40.00 -0.6
 KEK 7.55 321 ePn 19 40.30 -1.0
 SRN 7.57 323 ePn 19 40.80 -0.7
 KDZ 7.67 357 eP 19 48.00 5.0X
 RZN 7.76 353 ePd 19 44.00 -0.4
 MMB 7.80 348 eP 19 44.00 -0.8
 VAY 7.80 341 ePn 19 46.00 1.2
 i 19 53.60
 ZNT 7.82 100 eP 19 41.00 -4.1X
 21 01.00
 KKB 8.19 345 eP 19 50.00 -0.3
 OHR 8.21 332 iPn 19 50.10 -0.4
 BERA 8.23 326 ePn 19 49.50 -1.3
 VLO 8.27 323 ePn 20 01.40 10.10
 DSI 8.30 104 eP 19 49.00 -2.8
 SHMJ 8.31 96 P 19 48.70 -3.30
 BURJ 8.45 99 P 19 50.00 -4.00
 PGB 8.67 351 eP 20 07.00 10.10
 MBH 8.68 116 eP 19 55.00 -2.6
 SKO 8.73 337 ePn 19 55.70 -2.6
 N 14s 2.57um
 E 14s 3.06um
 TIR 8.79 329 ePn 20 05.00 6.50
 PHP 8.84 332 ePn 20 03.40 4.30
 VTS 8.86 347 eP 20 04.00 4.30
 LCI 8.99 317 P 19 57.40 -3.90
 21 31.10
 GRI 9.07 305 P 20 00.59 -1.0
 HOL 9.07 119 ePc 20 00.00 -2.4
 ROI 9.36 309 P 20 06.50 0.1
 21 42.00
 MSI 9.40 300 P 20 05.40 -1.6
 ATN 9.45 299 P 20 06.00 -1.7
 CZI 9.46 306 P 20 05.80 -1.0
 21 37.00
 BADA 9.47 123 ePc 20 03.80 -4.10
 PZI 9.49 292 P 20 05.86 -2.4
 SDA 9.50 330 ePn 20 06.00 -2.2
 MEU 9.50 292 P 20 07.10 -1.3
 21 48.90
 TDS 9.56 309 P 20 08.20 -0.9
 21 47.20
 CSI 9.65 310 P 20 14.10 3.6
 ORI 9.72 311 P 20 08.70 -2.6
 MMN 9.91 309 P 20 13.80 -0.1
 MNO 9.93 297 P 20 15.50 1.0
 MGR 10.32 310 P 20 16.10 -3.50
 GIB 10.45 296 P 20 22.30 0.0

FAI	10.51	292	P	20	24.00	1.8	LPO	21.85	307	eP	22	42.20	0.0	NANU	15.24	212	eP	06	00.80	1.1	
SGO	10.71	311	P	20	22.40	-2.5		1.0s	28.00nm				4.6mb	ASPA	16.61	148	eP	06	19.90	2.4X	
CMP	11.30	357	ePc	20	37.00	4.1X	RJF	21.86	308	eP	22	42.30	-0.1		0.6s		3.10nm			3.6mb	
AMAM	11.73	147	eP	20	39.00	0.2		0.8s	13.45nm				4.4mb				eS	09	19.10		
DUI	11.88	314	P	20	37.60	-3.2X	MEM	22.10	325	P	22	45.80	1.1		S.D. = 1.1 on 5 of 6 obs.						
AKSR	12.02	147	eP	20	43.00	0.3	LFF	22.24	307	eP	22	46.40	0.3		* OCT 26, 1990 02h 11m 06.01± 1.22s						
SDI	12.29	312	P	20	45.70	-0.7		1.0s	20.00nm				4.5mb		25.715 N ± 17.0km 94.929 E ± 10.5km						
MNS	13.38	313	P	21	00.00	-0.7	ENN	22.25	325	eP	22	47.50	1.4		DEPTH = 75.2 ± 29.3 km						
ASS	13.79	315	P	21	07.50	1.3		1.0s	32.00nm				4.7mb	BURMA-INDIA BORDER REGION (294)							
ARV	13.89	317	P	21	07.00	-0.4	DOU	22.48	322	P	22	49.80	1.4		SHL	2.75	268	iP	11	51.00	2.1
VBY	14.13	328	eP	21	12.90	2.4	WTS	22.69	328	eP	22	55.00	4.6X				iS	12	22.00		
			eS	23	39.50		LDF	24.27	315	eP	23	05.70	-0.2		KMI	7.09	93	Pd	12	51.00	1.6
PTJ	14.14	330	eP	21	06.10	-4.7X		0.6s	9.00nm				4.5mb				1.0s	450.00nm		6.1mb	
CEY	14.68	327	e(P)	21	19.00	1.2	FLN	24.56	315	eP	23	08.30	-0.4		CHG	7.81	151	ePn	12	57.50	-1.7
			eS	23	49.50			0.6s	18.05nm				4.8mb				eSg	15	04.60		
LJU	14.87	328	e(P)	21	19.50	-0.7	Z	20s	0.45um				4.0Msz		GUN	8.38	287	P	13	07.26	0.0
			e(S)	23	50.50		TOL	24.62	293	eP	23	11.00	1.6		PKI	8.72	284	P	13	11.14	-0.8
SRD	14.96	340	eP	21	31.60	10.2X	NUR	26.56	359	iP	23	25.60	-1.6				0.4s	76.00nm		5.8mb X	
TRI	14.97	325	P	21	22.50	1.0		0.4s	6.30nm				4.6mb		KKN	8.87	286	P	13	13.28	-0.6
VOY	15.15	326	eP	21	22.30	-1.7	HFS	27.37	347	eP	23	33.60	-1.1				0.4s	223.00nm		6.3mb X	
			eS	24	00.50			0.4s	3.80nm				4.4mb		DMN	8.99	284	P	13	15.02	-0.6
ZST	15.67	338	eP	21	37.40	6.8X	MAIO	27.46	76	eP	23	40.00	4.1X				0.2s	98.00nm		6.2mb X	
VKA	15.99	336	eP	21	37.00	2.3	NB2	28.70	345	P	23	44.30	-2.5		BDT	9.24	155	eP	13	17.80	-1.0
			e	21	44.00			0.5s	1.90nm				4.1mb		GKN	9.47	286	P	13	21.04	-1.0
			e	21	49.00		SUF	28.76	0	iP	23	45.20	-2.0				0.4s	103.00nm		6.1mb X	
FVI	16.08	325	P	21	36.90	1.0	EKA	29.38	325	P	23	58.00	5.2X		NDI	16.03	285	eP	14	47.00	-1.3
CTI	16.25	322	P	21	38.70	0.5		1.1s	11.30nm				4.5mb		HYB	17.31	245	ePc	15	06.00	1.7
KRA	16.66	346	eP	21	41.60	-1.6	BCAO	30.19	195	iPc	24	02.60	2.1				eS	18	05.00		
			e	21	51.10			0.5s	7.00nm				4.7mb		GBA	20.38	237	P	15	40.00	1.0
TAB	16.98	70	e(P)	21	52.00	4.5X	SOD	33.44	0	iP	24	27.20	-1.1		S.D. = 1.5 on 12 of 12 obs.						
SQTA	17.28	324	iPc	21	52.90	1.7							24	39.00							
	0.6s		17.70nm			4.4mb	KEV	35.83	1	eP	24	48.00	-0.8		OCT 26, 1990 03h 22m 47.92± 0.39s						
			i	21	58.90		LKO	37.79	237	P	25	06.94	1.0		44.340 N ± 4.7km 114.168 W ± 3.9km						
OSS	17.46	321	ePc	21	57.20	3.8X		0.4s	3.50nm				4.5mb		DEPTH = 5.0km (geophysicist)						
KHC	17.71	332	P	21	57.50	1.2	TIC	39.48	233	P	25	22.50	2.4X		WESTERN IDAHO (33)						
			e	25	36.10		KIC	39.51	233	P	25	22.00	1.7		ML 3.4 (BUT).						
TMA	17.77	318	ePd	22	01.00	3.7X	LIC	39.80	233	P	25	24.50	1.8		HPI	1.00	129	eP	23	07.30	-0.2
WET	17.99	331	iPc	22	01.80	2.0	Z	20s	0.35um				4.2Msz		MCMT	1.06	62	iPd	23	08.50	-0.1
PRU	18.07	336	eP	21	57.50	-3.2X	DAG	47.36	347	eP	26	23.00	-0.1		LTMT	1.49	82	iPd	23	16.40	0.8
			e	22	03.50			0.7s	3.42nm				4.5mb		TID	1.53	237	iPc	23	16.10	0.2
SAX	18.24	322	ePd	22	04.00	0.8	HYB	49.67	96	eP	26	46.50	4.8X		CPI	1.61	254	iP	23	16.70	-0.3
MMK	18.25	317	ePd	22	05.80	2.5X	GKN	50.09	80	P	26	46.12	1.1		BCMT	1.76	59	ePn	23	19.60	0.1
KSP	18.27	340	eP	22	03.00	-0.2		0.7s	22.00nm				5.3mb		HBMT	1.83	37	ePnd	23	20.20	-0.3
			e	22	05.80		DMN	50.62	80	P	26	50.34	1.2		LRM	1.92	39	iPnd	23	21.30	-0.5
BNI	18.48	312	P	22	10.00	4.0X	KKN	50.70	80	P	26	50.70	1.0		PTI	1.97	138	eP	23	22.50	0.1
MJMA	18.60	111	eP	22	10.00	2.4X		0.6s	10.00nm				5.0mb		BUT	2.02	34	ePg	23	27.50	4.3X
LPG	18.66	314	eP	22	09.50	1.1	PKI	50.89	80	P	26	52.00	0.7				eSn	23	49.30		
	0.6s		4.95nm			3.9mb		0.8s	14.00nm				5.0mb				eSg	23	53.30		
LPL	18.68	314	eP	22	09.90	1.3	GUN	51.14	80	P	26	54.12	0.9		WPI	2.14	242	eP	23	24.50	-0.3
	0.6s		3.60nm			3.7mb		0.8s	27.00nm				5.3mb		SXM	2.77	48	ePn	23	33.70	-0.2
EMS	18.86	315	ePd	22	10.40	-0.3	SCH	64.48	320	eP	28	21.00	-5.3X		HRY	2.88	34	ePn	23	35.30	-0.2
ZLA	18.88	321	ePc	22	10.30	-0.6	FFC	60.97	332	eP	30	06.00	2.7X		BW06	3.70	113	eP	23	52.20	5.0X
SLE	19.01	322	ePc	22	10.70	-1.7		0.7s	5.00nm				4.6mb		NEW	4.43	334	e(P)	23	58.00	0.7
GRF	19.10	330	eP	22	13.30	0.0	BAO	85.84	248	e(P)	30	33.00	4.2X		DPW	4.51	323	eP	24	01.00	2.5X
	Z	16s	0.70um					S.D. = 1.3 on 119 of 155 obs.						S.D. = 0.4 on 13 of 16 obs.							
FEL	19.33	321	P	22	14.84	-1.4		? OCT 26, 1990 01h 43m 37.59± 5.95s						% OCT 26, 1990 03h 24m 59.07± 1.66s							
BBS	19.34	320	P	22	17.40	1.1		43.852 N ± 30.7km 13.048 E ± 37.8km						42.326 N ± 11.4km 13.482 E ± 15.7km							
LOMF	19.64	319	P	22	19.11	-0.6		DEPTH = 10.0km (geophysicist)						DEPTH = 5.0km (geophysicist)							
MOX	19.68	332	e(P)	22	23.00	3.0X		CENTRAL ITALY (381)						CENTRAL ITALY (381)							
CLL	19.71	335	eP	22	18.00	-2.3	ARV	0.36	192	P	43	44.90	-0.1		AQU	0.07	295	P	24	59.40	-1.4
			e	22	32.00				eSg				43	52.00				eSg	25	01.50	
			e	26	09.00		CRE	0.83	255	P	43	53.00	-0.6		AZI	0.34	186	P	25	05.50	-0.4
MOF	19.78	320	P	22	22.15	1.0			eSg				44	01.50				eSg	25	12.00	
STR	19.91	323	P	22	23.07	0.7	ASS	0.83	200	P	43	54.50	0.8		MNS	0.60	276	P	25	11.90	0.9
BSF	19.95	320	eP	22	21.90	-1.0	SFI	0.87	275	P	43	54.70	0.5				eSg	25	18.70		
	0.6s		8.10nm			4.2mb	PGD	0.96	272	P	43	58.60	2.6X		SDI	0.67	158	P	25	12.70	0.3
ECH	19.99	321	P	22	23.98	0.7			eSg				44	09.00				eSg	25	24.70	
WLS	20.01	322	P	22	23.38	-0.1	MNS	1.49	191	P	44	04.00	-0.5		ASS	0.96	321	P	25	18.30	0.5
CDF	20.05	322	P	22	23.45	-0.5		S.D. = 0.9 on 5 of 6 obs.						S.D. = 1.2 on 5 of 5 obs.							
GWF	20.24	323	P	22	25.39	-0.5															

26d 03h

KSL 3.80 51 ePn 38 24.60 -0.4
 VLI 3.80 321 ePn 38 24.90 -0.2
 SMG 3.98 11 ePn 38 30.70 3.2
 CIN 4.19 24 eP 38 30.00 -0.5
 ELL 4.39 47 iPn 38 33.60 0.0
 ITM 4.69 317 ePn 38 37.70 0.0
 IZM 4.72 13 ePn 38 38.00 -0.1
 BCK 5.27 45 ePn 38 45.20 -0.8
 KHL 5.38 32 ePn 38 46.00 -1.5
 PPCY 5.42 77 eP 38 49.50 1.5
 EZN 6.03 3 eP 38 54.80 -1.7
 HLW 6.06 129 eP 39 03.50 6.6X
 S.D. = 0.3 on 8 of 8 obs.

EVR 6.09 328 ePn 39 00.70 3.2X
 CSS 6.24 77 eP 39 00.00 0.6
 KOT 6.33 126 ePn 39 03.00 2.3
 KZN 7.30 334 ePn 39 14.50 0.2
 ZNT 7.81 99 eP 39 20.00 -1.4
 S.D. = 0.3 on 8 of 8 obs.

VAY 7.97 341 ePn 39 22.40 -1.2
 JVI 8.15 101 eP 39 25.00 -1.1
 SHMJ 8.31 95 P 39 27.50 -0.9
 OHR 8.36 332 ePn 39 27.50 -1.6
 PRNI 8.43 112 eP 39 29.00 -1.1
 BURJ 8.44 98 P 39 29.30 -1.0
 SKO 8.90 338 ePn 39 33.00 -3.4X
 S.D. = 0.3 on 8 of 8 obs.

N 14s 1.20um
 E 14s 1.60um
 HOL 9.00 118 eP 39 38.00 0.9
 LCI 9.11 318 P 39 35.50 -3.9X
 BADA 9.39 122 eP 39 43.50 0.3
 ATN 9.53 308 P 39 44.40 -0.8
 S.D. = 0.3 on 8 of 8 obs.

MEU 9.55 293 P 39 44.80 -0.8
 CZI 9.56 307 P 39 44.50 -1.0
 TDS 9.66 310 P 39 46.90 -0.1
 S.D. = 0.3 on 8 of 8 obs.

CSI 9.76 310 P 39 48.50 0.2
 ORI 9.83 312 P 39 48.70 -0.5
 MGR 10.43 310 P 39 55.00 -2.5
 GIB 10.52 297 P 40 00.00 1.2
 SGO 10.82 312 P 40 00.60 -2.2
 FVI 16.22 326 P 41 18.00 4.2X
 CTI 16.39 323 P 41 20.00 3.9X
 SOTA 17.42 325 i(P) 41 29.50 0.5
 S.D. = 0.3 on 8 of 8 obs.

KHC 17.86 333 eP 41 32.20 4.0mb
 BNI 18.59 313 P 41 35.20 0.8
 GRF 19.25 330 eP 41 48.00 4.5X
 S.D. = 0.3 on 8 of 8 obs.

CLL 19.87 336 eP 42 03.00 5.2X
 BSF 20.08 320 eP 42 00.60 0.4
 CDF 20.19 322 eP 42 01.60 0.4
 BGF 21.66 313 eP 42 17.80 1.6
 RJF 21.96 309 eP 42 19.80 0.6
 LDF 24.39 315 eP 42 44.10 1.2
 FLN 24.68 315 eP 42 46.10 0.5
 HFS 27.55 347 eP 43 10.50 -1.5
 S.D. = 0.3 on 8 of 8 obs.

NB2 28.88 345 P 43 23.30 -0.8
 BCAA 30.01 195 iPc 43 40.10 5.5X
 KIC 39.38 233 P 45 00.00 5.0X
 S.D. = 1.3 on 48 of 58 obs.

% OCT 26, 1990 04h 22m 00.69 ± 0.58s
 0.045 S ± 5.6km 78.406 W ± 5.9km
 DEPTH = 10.0km (geophysicist)
 ECUADOR (107)

OUR 0.18 224 iPd 22 04.80 -0.1

YANA 0.18 247 iPd 22 04.80 -0.2
 OTO 0.20 219 iPd 22 05.50 0.2
 GGP 0.23 236 iP+ 22 08.00 -0.1
 COTA 0.38 10 iPd 22 08.90 0.2
 CAYA 0.44 74 iP 22 13.70 -0.2
 VC1 0.59 179 iP+ 22 12.80 -0.2
 TUNG 1.36 182 eP 22 26.50 0.4
 S.D. = 0.3 on 8 of 8 obs.

? OCT 26, 1990 05h 09m 35.77 ± 3.30s
 61.701 N ± 14.1km 4.439 E ± 28.1km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN NORWAY (535)
 MD 2.2 (BER).

SUE 0.66 166 iP 09 49.10 0.1
 HYA 1.00 122 iP 09 55.60 1.0
 ASK 1.28 163 eP 09 59.90 0.5
 MOL 1.70 58 iP 10 06.15 0.6
 BLS2 2.71 152 eP 10 19.44 -0.8
 NRA0 3.57 103 Pn 10 31.00 -1.3
 S.D. = 1.1 on 6 of 6 obs.

* OCT 26, 1990 05h 25m 11.78 ± 0.80s
 9.922 S ± 9.2km 118.186 E ± 12.8km
 DEPTH = 33.0km (normol)
 4.4mb (1 obs.)
 SUMBAWA ISLAND REGION (285)

MKS 4.84 15 iPd 26 25.00 0.7
 TRT 5.91 291 ePd 26 38.70 -0.7
 MBL 11.29 172 eP 27 53.40 -0.5
 NANU 12.82 191 iPd 28 15.30 0.8
 MTN 13.02 104 eP 28 11.00 -6.1X
 MEKA 16.61 179 eP 29 09.40 5.6X
 WARB 18.05 155 eP 29 23.00 1.2
 WB5 18.49 124 eP 29 25.80 -1.5
 MRWA 19.31 186 eP 29 42.00 4.9X
 ASPA 20.30 134 eP 29 43.80 -3.9X
 S.D. = 1.4 on 6 of 10 obs.

* OCT 26, 1990 05h 42m 03.46 ± 0.87s
 33.877 N ± 9.9km 26.115 E ± 10.2km
 DEPTH = 33.0km (normol)
 3.7mb (1 obs.)
 EASTERN MEDITERRANEAN SEA (371)
 MD 4.0 (ATH).

NPS 1.44 343 ePn 42 25.80 -1.7
 KAP 1.88 27 ePn 42 35.50 1.6
 VAM 2.20 315 ePn 42 37.30 -1.0
 ARG 2.86 35 ePn 42 52.80 5.1X
 ELL 4.22 46 ePn 43 08.60 1.4
 KOT 6.25 127 ePn 43 35.50 -0.3
 JVI 8.00 102 eP 43 59.00 -1.3
 PRNI 8.32 113 eP 44 04.00 -0.7
 MBH 8.51 116 eP 44 07.00 -0.3
 SOTA 17.45 324 iPd 46 06.40 0.5
 S.D. = 1.5 on 10 of 11 obs.

BCAO 30.13 195 ePc 48 14.50 1.9
 S.D. = 1.5 on 10 of 11 obs.

* OCT 26, 1990 05h 49m 37.94 ± 0.50s

LPG 82.96 16 eP 02 13.80 9.3X

35.143 S ± 10.4km 16.426 W ± 8.5km
 DEPTH = 10.0km (geophysicist)
 5.1mb (11 obs.) 5.6msz (10 obs.)
 SOUTH ATLANTIC RIDGE (410)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 17S, 40C
 Centroid Location:
 Origin Time 05:49:47.8 0.2
 Lat 35.22S Lon 15.94W 0.03
 Dep 15.0 FIX Half-duration 4.0
 Moment Tensor: Scale 10**18 Nm
 Mrr= 0.08 0.02 Mtt=-0.79 0.03
 Mff= 0.71 0.03 Mrt=-0.09 0.03
 Mrf=-0.06 0.07 Mtf= 1.23 0.03

Principal Axes:
 T Val= 1.41 Plg= 4 Azm=119
 N 0.07 85 276
 P -1.48 2 29
 Best Double Couple: Mo=1.4*10**18
 NP1: Strike=164 Dip=86 Slip= 170
 NP2: 254 88

VAO 29.19 286 eP 55 43.20 1.4
 PDCR 30.48 312 eP 55 54.20 1.0
 WIN 31.77 76 iPc 56 10.20 5.4X
 PPD 33.13 284 eP 56 16.70 0.3
 SOB1 34.15 313 eP 56 24.90 -0.5
 BAO 34.29 296 eP 56 27.30 0.6
 SLR 39.39 89 iPc+ 57 06.00 -3.8X
 Z 1.2s 54.69nm 5.1mb
 22s 20.00um 5.9msz

EVA 39.73 90 iPd 57 08.50 -4.1X
 AIA 41.29 208 eP 57 25.50 0.9
 BUL 42.25 81 iPc 57 26.80 -6.4X
 LIC 42.52 17 P 57 35.44 0.2
 KIC 42.72 17 P 57 36.48 -0.5
 TIC 42.93 17 P 57 37.60 -1.0
 FCH 44.11 256 eP 57 49.50 1.0
 SIV 44.14 284 P 57 49.60 1.1
 SAN 44.37 256 eP 57 50.00 -0.3
 PEL 44.48 256 iP 57 51.60 0.4
 TACH 44.53 256 eP 57 50.00 -1.5
 KMI 44.79 78 iPc 58 00.90 7.0X
 LNV 44.81 255 eP 57 52.00 -1.7
 LKO 45.61 15 P 57 58.22 -2.0
 CCH 47.46 279 P 58 16.30 1.0
 ANT 47.88 269 e(P) 58 16.00 -2.1
 CNCB 49.25 278 P 58 29.00 -0.5
 LPB 49.49 278 P 58 30.00 -1.2
 Z 20s 14.89um 6.0msz

ZOBO 49.65 279 P 58 32.00 -0.6
 BCAA 51.27 47 iPc 58 42.10 -2.1
 CRZF 51.42 125 iPc 58 48.00 3.0X
 ARE 52.29 276 eP 58 52.00 -0.3
 MAW 54.01 152 iP 59 03.00 -1.0
 TIO 66.28 9 iP 00 39.50 10.9X
 SBA 67.25 181 eP 00 35.20 1.1
 AVE 68.60 8 eP 00 48.00 5.0X
 MAL 72.37 10 eP 01 16.00 10.2X
 TOL 75.52 10 e(P) 01 35.00 11.0X
 ISS 11 05.00
 ISSS 16 02.00
 ISSS 19 40.00

LPG 82.96 16 eP 02 13.80 9.3X

OHR 1.2s 22.30nm 5.2mb
 SMF 83.24 27 eP 02 05.00 -0.7
 83.43 14 eP 02 09.20 2.7X
 1.0s 11.00nm 5.0mb
 AVF 83.48 14 eP 02 09.60 2.9X
 1.0s 14.00nm 5.1mb
 IZM 83.61 33 eP 02 13.00 5.3X
 SSF 83.77 14 eP 02 09.40 1.2
 1.0s 10.00nm 5.0mb
 LOR 84.03 14 eP 02 08.90 -0.7
 1.0s 8.00nm 4.9mb
 Z 20s 3.00um 5.7Msz
 VAY 84.10 28 eP 02 12.00 2.1
 SKO 84.22 27 iP 02 12.00 1.4
 i 02 19.30
 i 12 33.00
 i 13 28.00
 i 17 30.00
 i 18 01.00
 EZN 84.38 32 eP 02 12.00 0.6
 SOTA 85.66 18 e(P) 02 20.00 2.2
 1.6s 56.00nm 5.5mb
 i 02 27.10
 i 02 46.20
 i 02 56.10
 BEO 86.33 25 eP 02 28.50 7.5X
 WET 87.87 19 eP 02 32.00 3.6X
 GRF 87.95 18 eP 02 31.90 3.1X
 Z 21s 1.00um 5.2Msz
 VKA 88.04 21 eP 02 40.00 10.8X
 Z 20s 1.60um 5.4Msz
 LR 39 50.00
 KHC 88.05 19 eP 02 36.50 7.2X
 Z 18s 0.50um 5.0Msz
 N 20s 1.50um
 E 19s 1.00um
 e 05 59.00
 S 13 32.00
 ZST 88.21 22 eP 02 39.30 9.3X
 e 17 12.60
 e 17 23.50
 SRO 88.24 23 eP 02 41.60 11.4X
 CMP 88.40 28 ePc 02 50.00 19.0X
 PRU 89.09 19 eP 02 38.00 3.8X
 Z 20s 2.60um 5.7Msz
 N 19s 2.70um
 E 18s 0.90um
 e 02 44.00
 CLL 89.89 18 ePKP 02 41.00 3.1X
 Z 17s 1.50um 5.5MszX
 e 03 08.00
 PKKS 17 22.00
 KSP 90.34 20 eP 02 49.50 9.4X
 KRA 90.73 22 eP 02 42.00 0.2
 e 02 51.20
 TAB 93.19 45 eP 02 46.00 -7.6X
 ALO 109.09 300 e(PKP) 08 20.00 10.2X
 Z 22s 2.04um 5.6Msz
 LZH 132.12 71 ePKP 09 10.00 16.2X
 Z 36s 2.33um 5.6MszX
 N 20s 1.41um
 ePP 11 30.00
 i 12 07.00
 i 27 20.00
 SS 28 57.00
 INK 132.12 333 ePKP 08 48.00 -4.5X
 BJI 142.47 68 ePKP 09 18.50 6.0X
 Z 24s 1.97um 5.8MszX
 e 31 03.00
 SSE 144.46 84 PKP 09 22.50 6.3X
 Z 20s 0.90um 5.5Msz
 N 18s 1.50um
 pPKP 09 47.00
 SS 31 22.00
 i 36 48.00
 S.D. = 1.2 on 33 of 64 obs.

* OCT 26, 1990 05h 58m 53.52s
 64.852 N 150.629 W
 DEPTH = 38.8km
 3.5mb (1 obs.)
 CENTRAL ALASKA (1)
 <AGS-P>.

NEA 0.72 112 iP 59 06.76 -0.5
 WRH 1.16 108 eP 59 13.13 -0.3
 FBA 1.21 86 iPc 59 14.30 0.1

CCB 1.23 98 eP 59 14.30 -0.2
 MCK 1.35 146 eP 59 16.03 -0.1
 GLM 1.39 83 eP 59 16.89 0.1
 HDA 1.65 104 eP 59 19.73 -0.7
 eS 59 41.36
 RND 1.65 151 eP 59 20.55 0.0
 IMA 1.76 315 iPc 59 23.90 1.6
 HUR 1.93 166 eP 59 25.30 0.7
 eS 59 47.39
 DDM 2.33 115 eP 59 29.80 -0.6
 CUT 2.46 176 eP 59 32.72 0.6
 FYU 2.82 50 eP 59 36.89 -0.3
 SKT 2.91 188 eP 59 39.15 0.6
 PAX 2.96 127 eP 59 39.21 -0.1
 TTA 3.06 233 eP 59 40.04 -0.7
 DOT 3.11 110 eP 59 40.45 -0.9
 GHO 3.19 165 eP 59 42.00 -0.4
 PWA 3.23 174 eP 59 42.75 -0.2
 SDG 3.25 134 eP 59 43.41 0.1
 PLRM 3.34 168 eP 59 44.46 -0.1
 PMR 3.34 168 iPd 59 44.40 -0.2
 SCM 3.38 152 eP 59 44.66 -0.5
 SUA 3.40 181 eP 59 45.76 0.2
 TOA 3.41 142 iPd 59 46.10 0.5
 NCG 3.53 192 eP 59 47.61 0.2
 KNK 3.59 163 eP 59 48.39 0.2
 CGLM 3.61 191 eP 59 48.17 -0.4
 PMS 3.65 172 eP 59 49.43 0.4
 CRP 3.67 192 eP 59 49.53 0.2
 TMW 3.68 111 eP 59 49.45 0.0
 BGL 3.69 193 eP 59 50.19 0.6
 SPU 3.74 191 eP 59 50.16 -0.2
 CKL 3.75 193 eP 59 50.89 0.4
 KLU 3.99 146 eP 59 54.30 0.4
 VLZ 4.22 150 eP 59 56.68 -0.3
 VZW 4.24 152 eP 59 57.23 -0.1
 GLI 4.30 156 eP 59 58.60 0.4
 SKLM 4.37 177 eP 59 59.23 0.1
 RDT 4.37 192 eP 59 59.64 0.4
 SVW 4.39 213 iPd 59 59.30 -0.2
 GLB 4.61 135 eP 00 02.85 0.2
 KNIM 4.71 162 eP 00 04.21 0.1
 DWY 4.91 94 P 00 06.00 -0.9
 MTU 5.07 163 eP 00 10.08 1.0
 CNPM 5.35 183 eP 00 14.20 1.2
 BALM 5.38 132 eP 00 13.73 0.2
 ANM 6.33 274 ePc 00 27.40 0.7
 HYT 7.23 118 P 00 40.00 0.5
 INK 7.63 55 P 00 44.00 -1.0
 TNP 33.20 127 P 05 31.00 2.4
 0.6s 0.46nm 3.5mb
 51 obs. associated

* OCT 26, 1990 06h 04m 15.73±0.55s
 35.368 S ±14.7km 16.108 W ±7.2km
 DEPTH = 10.0km (geophysicist)
 5.1mb (12 obs.) 5.5Msz (3 obs.)
 SOUTH ATLANTIC RIDGE (410)

VAD 29.50 286 eP 10 15.60 -6.8X
 PDCR 30.82 312 eP 10 32.50 -1.6
 e 11 32.70
 WIN 31.58 75 iPc 10 41.60 0.7
 0.9s 25.21nm 5.1mb
 Z 22s 7.41um 5.3Msz
 PPD 33.43 284 eP 10 56.40 -0.5
 SOB1 34.50 313 eP 11 04.50 -1.6
 i 11 06.00
 e 12 22.10
 BAD 34.62 296 eP 11 07.20 -0.1
 BPI 38.75 89 iPc 11 41.00 -1.2
 SLR 39.14 88 iPc 11 43.50 -1.9
 1.0s 40.00nm 5.0mb
 Z 20s 15.60um 5.8Msz
 S 17 32.00
 EVA 39.47 90 iPc 11 46.60 -1.6
 1.1s 63.29nm 5.2mb
 BUL 42.02 81 iPc 12 04.60 -4.6X
 i 12 12.00
 LIC 42.67 16 P 12 13.44 -0.8
 Z 20s 5.00um 5.4Msz
 KIC 42.86 17 P 12 15.18 -0.7
 0.8s 24.00nm 5.0mb
 TIC 43.07 16 P 12 16.64 -0.9
 1.0s 32.00nm 5.0mb
 FCH 44.31 256 eP 12 29.00 1.1
 SIV 44.44 284 iPc 12 30.00 1.2

SAN 44.57 256 eP 12 32.50 2.9X
 KRI 44.58 78 iPc 12 33.20 3.2X
 PEL 44.68 256 ePd 12 31.50 0.9
 TACH 44.72 256 eP 12 31.00 0.1
 LNV 45.00 255 iPd 12 33.00 -0.1
 LKO 45.76 15 P 12 34.00 -5.2X
 0.9s 21.00nm 5.1mb
 CCH 47.75 279 P 12 56.00 0.7
 CNCB 49.54 278 P 13 08.00 -1.5
 LPB 49.78 278 P 13 10.00 -1.2
 ZOBO 49.94 278 P 13 11.00 -0.8
 BCAA 51.23 47 iPd 13 21.60 -0.1
 0.8s 24.00nm 5.2mb
 i 14 51.40
 ARE 52.57 276 eP 13 32.00 -0.2
 MBH 80.64 43 eP 16 41.00 10.9X
 PRNI 81.14 43 eP 16 37.00 4.2X
 LPG 83.10 16 eP 16 44.80 1.8
 0.8s 6.70nm 4.9mb
 LPL 83.12 16 eP 16 45.00 2.0
 0.8s 4.70nm 4.7mb
 OHR 83.32 27 eP 16 48.00 4.1X
 SMF 83.59 14 eP 16 45.90 0.8
 1.0s 8.00nm 4.9mb
 AVF 83.64 13 eP 16 47.10 1.8
 1.2s 17.85nm 5.2mb
 IZM 83.66 33 eP 16 59.00 13.3X
 VAY 84.17 28 eP 16 49.40 1.3
 SKO 84.30 27 iP 16 50.00 1.2
 SOTA 85.79 18 i(P) 17 02.20 5.9X
 1.8s 70.30nm 5.5mb
 e 17 08.50
 i 17 13.30
 KHC 88.17 19 eP 17 15.00 7.3X
 e 20 32.00
 SRO 88.35 22 e(P) 17 15.00 6.5X
 PRU 89.21 19 eP 17 17.50 4.9X
 BRS 116.70 169 iPKPc 22 59.50 -2.6X
 INK 132.44 333 ePKP 23 28.00 -2.9X
 BJI 142.32 68 ePKP 23 51.50 1.4
 1.3s 10.00nm
 S.D. = 1.2 on 29 of 44 obs.

? OCT 26, 1990 06h 59m 47.63±3.77s
 1.168 S ±18.6km 77.876 W ±33.6km
 DEPTH = 33.0km (normol)
 ECUADOR (107)

TUNG 0.62 246 P 00 00.20 -0.1
 S 00 20.80
 VC1 0.74 315 iP+ 00 04.00 1.9
 QTO 1.16 326 eP 00 07.20 -0.8
 QUR 1.19 327 iPd 00 07.90 -0.5
 GGP 1.22 324 iP+ 00 08.30 -0.7
 CAYA 1.24 355 iP 00 09.20 -0.1
 YANA 1.26 326 Pd 00 08.70 -0.7
 COTA 1.56 343 P 00 14.90 1.0
 S.D. = 1.1 on 8 of 8 obs.

? OCT 26, 1990 07h 00m 18.03±6.53s
 33.796 S ±21.4km 72.736 W ±49.6km
 DEPTH = 20.9 ± 7.9 km
 OFF COAST OF CENTRAL CHILE (134)

LCCH 1.02 72 iPc 00 36.90 0.0
 IS 00 48.50
 LNV 1.11 99 iPc 00 38.50 0.1
 IS 00 51.20
 IHA 1.20 50 eP 00 39.40 -0.1
 eS 00 55.70
 TACH 1.51 85 iPc 00 43.10 -0.9
 IS 01 00.70
 ROCH 1.66 61 ePd 00 46.50 0.1
 i 01 10.50
 SAN 1.76 79 eP 00 48.00 0.3
 PEL 1.83 70 iPd 00 49.00 0.2
 i 01 09.20
 PCH 1.86 85 iPd 00 49.50 0.3
 i 01 13.00
 FCH 2.09 78 ePc 00 52.90 0.1
 S.D. = 0.5 on 9 of 9 obs.

? OCT 26, 1990 08h 12m 52.86±4.62s
 36.310 N ±31.7km 141.844 E ±39.7km
 DEPTH = 89.1 ± 18.2 km
 NEAR EAST COAST OF HONSHU, JAPAN(228)

26d 08h

KAKJ 1.35 266 iPd 13 16.20 -0.9
S 13 30.10
CHJJ 2.32 264 iPd 13 30.10 0.2
S 13 54.60
YAMJ 2.35 323 P 13 29.20 -1.2
S 13 54.50
NIJJ 2.46 293 P 13 32.00 0.2
S 13 57.80
OFUJ 2.77 357 P 13 36.70 0.7
S 14 05.60
MAT 2.94 276 iPc 13 39.40 1.0
eS 14 13.00
MTMJ 3.27 276 P 13 43.30 0.3
eS 14 19.70
IIDJ 3.30 257 P 13 46.90 3.5X
eS 14 24.70
GUN 47.58 277 P 21 23.60 1.7
PKI 48.10 276 P 21 23.60 -2.3
GKN 48.53 277 P 21 29.20 0.2
S.D. = 1.4 on 10 of 11 obs.

? OCT 26, 1990 10h 47m 35.04 ± 1.10s
39.113 N ± 8.3km 27.620 E ± 13.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.4 (ISK).

IZM 0.77 201 ePg 47 50.00 0.0
eSg 48 02.80
EZN 1.23 306 ePn 47 58.00 0.1
BNT 1.26 10 ePn 47 58.00 -0.5
KCT 1.27 26 iPn 47 59.00 0.4
S.D. = 0.6 on 4 of 4 obs.

* OCT 26, 1990 11h 02m 15.30s
38.402 N 119.338 W
DEPTH = 5.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 3.1 (BRK).

CMB 0.90 246 iPc 02 31.80 -1.3
iS 02 43.80
KVN 1.17 56 eP 02 36.20 -1.5
FRI 1.44 192 eP 02 41.30 -0.7
iS 02 59.90
TNP 1.70 100 eP 02 44.50 -1.5
ARN 2.03 239 eP 02 51.30 0.7
ORV 2.04 305 eP 02 51.00 0.3
MHC 2.11 241 eP 02 52.70 0.9
SAO 2.34 226 eP 02 55.70 0.7
BKS 2.34 258 e(P) 02 51.10 -4.0
9 obs. associated

OCT 26, 1990 11h 08m 49.34 ± 0.94s
18.772 N ± 8.0km 58.965 W ± 8.6km
DEPTH = 33.0km (normal)

NORTH ATLANTIC OCEAN (402)

DEG 3.16 220 iPc 09 37.80 -0.2
S 10 08.90
BPA 3.24 239 ePc 09 39.82 0.7
S 10 12.70
SFG 3.29 221 eP 09 39.20 -0.5
SEG 3.38 226 ePc 09 41.55 0.5
S 10 14.50
DOG 3.72 223 iPc 09 46.77 0.9
PAG 3.76 224 eP 09 47.30 0.8
S 10 27.00
NEV 3.80 245 ePc 09 48.30 1.3
S 10 28.20
BBL 4.03 217 ePc 09 49.86 -0.4
S 10 30.00
FDF 4.53 208 iPc 09 57.00 -0.5
0.1s 4.80nm
S 10 28.00
LPR 6.57 267 P 10 25.00 -1.2
S 10 30.20
SJO 6.85 266 iP 10 30.20 0.0
PORP 7.32 266 P 10 36.20 -0.5
CUM 9.67 212 eP 11 08.00 -1.3
SIV 34.61 184 P 15 37.40 -0.2
i 15 51.80

ZOBO 35.97 195 P 15 50.00 0.2
LPB 36.22 195 eP 15 52.00 0.3
CNCB 36.45 195 P 15 54.00 0.1
TUL 36.64 305 eP 16 05.90 11.2X
1.0s 6.70nm
SIO 36.98 305 eP 16 08.80 11.2X

INK 67.00 337 eP 19 41.00 0.2
S.D. = 0.7 on 18 of 20 obs.

* OCT 26, 1990 11h 57m 48.90s
38.037 N 119.160 W
DEPTH = 9.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 3.6 (BRK).

MNA 0.88 63 eP 58 04.80 -1.3
CMB 0.97 270 iPc 58 06.50 -0.9
iS 58 19.30
FRI 1.13 203 iPc 58 09.50 -0.7
iS 58 24.30
KVN 1.31 39 eP 58 12.30 -1.1
TNP 1.53 88 iPc 58 15.40 -1.3
ARN 2.00 251 eP 58 23.50 0.2
LLA 2.01 226 ePd 58 24.40 1.0
MHC 2.09 251 ePc 58 25.30 0.7
SAO 2.22 236 ePc 58 27.30 0.9
PRI 2.24 213 eP 58 28.30 1.4
ORV 2.38 310 iP 58 29.70 1.1
PHAM 2.41 205 eP 58 29.80 0.6
BKS 2.44 267 eP 58 30.40 0.9
BRK 2.46 267 eP 58 31.30 1.6
BCH 2.94 195 eP 58 37.40 0.6
ABL 3.18 181 eP 58 41.00 0.7
16 obs. associated

? OCT 26, 1990 12h 56m 11.86 ± 5.40s
21.314 S ± 46.3km 68.427 W ± 18.4km
DEPTH = 33.0km (normal)

CHILE-BOLIVIA BORDER REGION (124)

CCH 4.47 29 P 57 25.40 6.0X
CNCB 4.50 5 Pc 57 21.00 0.9
LPB 4.77 4 P 57 23.00 -0.6
ZOBO 5.03 3 P 57 27.20 -0.3
1.0s 22.50nm 4.6mb
ARE 5.63 328 iPc 57 35.80 0.0
eS 58 34.00
SIV 8.75 54 P 58 19.20 0.0
S.D. = 0.8 on 5 of 6 obs.

* OCT 26, 1990 13h 04m 33.72 ± 0.91s
62.720 N ± 9.7km 149.329 W ± 11.1km
DEPTH = 33.0km (normal)

CENTRAL ALASKA (1)

PMR 1.14 175 iPc 04 53.50 0.2
TOA 1.59 111 iPc 04 59.50 -0.5
FBA 2.29 17 iPc 05 11.20 1.2
TTA 3.07 277 iPd 05 21.70 0.6
IMA 3.86 333 eP 05 30.80 -1.4
S.D. = 1.5 on 5 of 5 obs.

* OCT 26, 1990 13h 19m 08.74 ± 1.21s
46.430 N ± 11.2km 3.471 E ± 7.6km
DEPTH = 10.0km (geophysicist)

FRANCE (538)
ML 2.2 (LDG).

SMF 0.33 50 Pg 19 16.00 0.3
Sg 19 20.80
AVF 0.37 347 Pg 19 16.40 0.1
Sg 19 21.50
BGF 0.45 287 Pg 19 18.00 0.1
Sg 19 24.00
LBF 0.65 32 Pg 19 21.40 -0.4
Sg 19 30.10
MAF 0.66 252 Pg 19 21.80 -0.1
Sg 19 30.40
TCF 0.88 261 Pg 19 25.80 0.1
Sg 19 37.20
S.D. = 0.3 on 6 of 6 obs.

? OCT 26, 1990 13h 22m 54.04 ± 4.23s
42.684 N ± 36.7km 24.089 E ± 10.0km
DEPTH = 10.0km (geophysicist)

BULGARIA (359)

SRS 1.61 193 ePd 23 22.74 0.2
eS 23 44.98
KNT 1.76 211 ePc 23 25.42 0.6
iS 23 48.58
VAY 1.77 220 ePn 23 22.20 -2.7X
i 23 26.40

SOH 1.94 197 ePc 23 27.26 -0.2
eS 23 53.98
SKO 2.09 251 ePn 23 34.00 4.5X
GRG 2.14 217 ePd 23 30.86 0.6
eS 23 58.58
THE 2.22 203 ePd 23 30.62 -0.7
eS 24 00.62
ALN 2.31 140 ePd 23 32.58 -0.1
eS 24 04.98
OUR 2.35 182 ePc 23 33.94 0.7
eS 24 05.14
FNA 2.78 228 ePc 23 39.30 -0.2
LIT 2.85 206 ePc 23 40.02 -0.4
AGG 3.89 201 ePc 23 54.58 -0.6
S.D. = 0.6 on 10 of 12 obs.

? OCT 26, 1990 13h 40m 39.55 ± 11.98s
8.017 S ± 108.8km 129.473 E ± 19.5km
DEPTH = 190.9 ± 40.9 km
5.4mb (4 obs.)

TIMOR SEA (290)

MTN 5.07 161 iPd 41 56.10 0.8
0.3s 302.00nm 5.9mb
KNA 7.72 185 iPd 42 30.10 -0.1
0.3s 73.00nm 5.4mb
eS 44 00.00
WB5 12.71 159 eP 43 32.90 -1.9
eS 45 57.00
OIS 15.86 143 eP 44 14.00 0.0
0.2s 6.00nm 4.7mb
eS 47 04.00
MBL 16.04 214 eP 44 15.70 -0.5
ASPA 16.13 165 eP 44 18.20 0.9
0.4s 48.20nm 5.3mb
eS 47 15.90
WARB 18.27 188 eP 44 42.20 0.7
S.D. = 1.4 on 7 of 7 obs.

? OCT 26, 1990 13h 49m 46.78 ± 2.74s
39.912 N ± 8.8km 30.515 E ± 30.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.9 (ISK).

GPA 0.41 337 iPg 49 54.40 -0.7
eSg 50 01.40
IZI 0.90 298 ePn 50 03.40 -0.8
HRT 1.12 325 ePn 50 08.30 0.6
ISK 1.60 317 ePn 50 15.00 -0.1
BBTK 1.73 92 eP 50 26.00 8.8X
iS 50 50.00
KHC 1.76 206 ePn 50 17.50 -0.2
CTT 2.01 308 ePn 50 22.40 1.2
S.D. = 1.0 on 6 of 7 obs.

OCT 26, 1990 14h 21m 51.88 ± 1.58s
43.648 N ± 10.9km 7.022 E ± 5.5km
DEPTH = 11.1 ± 4.1 km
NEAR SOUTH COAST OF FRANCE (379)
MD 1.7 (STR).

CALN 0.14 317 Pg 21 55.50 0.0
Sg 21 59.64
MVIF 0.27 21 Pg 21 58.29 0.7
Sg 22 02.89
REVf 0.27 70 Pg 21 57.60 0.0
AURF 0.33 43 Pg 21 58.66 -0.1
TOUF 0.40 24 Pg 22 00.16 0.0
Sg 22 07.44
AUTN 0.45 40 Pg 22 01.15 -0.1
Sg 22 09.23
SAOF 0.51 49 Pg 22 01.93 -0.4
Sg 22 10.90
STV 0.63 20 P 22 04.21 -0.4
S 22 12.92
ENR 0.65 26 P 22 04.51 -0.3
S 22 13.23
IMI 0.68 67 P 22 05.13 -0.2
S 22 14.77
PZZ 0.86 4 P 22 08.62 0.2
ROB 0.89 43 P 22 09.44 0.5
FIN 1.02 56 P 22 11.59 0.4
RRL 1.28 352 P 22 15.49 -0.2
PCP 1.42 50 P 22 18.05 0.5
S.D. = 0.4 on 15 of 15 obs.

% OCT 26, 1990 15h 11m 47.07 ± 2.07s
43.095 N ± 10.7km 1.013 W ± 14.0km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
MD 1.0 (STR).

BOH 0.01 4 Pg 11 48.95 -0.1
Sg 11 52.00
MADF 0.15 70 Pg 11 50.73 0.1
Sg 11 55.19
ISSF 0.17 113 Pg 11 51.42 0.4
Sg 11 56.14
ATE 0.23 92 Pg 11 52.07 0.1
Sg 11 57.49
ESCF 0.32 93 Pg 11 53.39 -0.4
Sg 12 00.59
LHE 0.34 122 Pg 11 53.91 -0.2
Sg 12 00.91
OGE 0.40 79 Pg 11 55.32 0.0
S.D. = 0.3 on 7 of 7 obs.

? OCT 26, 1990 16h 03m 27.65 ± 18.93s
33.734 S ± 29.6km 72.513 W ± 150.km
DEPTH = 33.0km (narmol)
OFF COAST OF CENTRAL CHILE (134)

LCCM 0.83 72 iPc 03 42.10 -0.8
iS 03 55.00
LNV 0.94 104 iP 03 44.50 0.0
iS 03 58.00
TACH 1.32 87 iP 03 49.50 -0.4
iS 04 08.10
ROCH 1.47 59 iPd 03 52.30 0.0
iS 04 16.50
CHCH 1.56 98 eP 03 45.36 -8.1X
iS 04 15.00
PEL 1.64 69 ePc 03 55.00 0.4
iS 04 18.50
PCH 1.67 87 iPc 03 55.40 0.3
iS 04 19.00
FCH 1.90 78 iP 03 59.00 0.4
i 04 27.50
S.D. = 0.5 on 7 of 8 obs.

% OCT 26, 1990 16h 36m 37.62 ± 0.70s
46.593 N ± 5.9km 9.204 E ± 6.2km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)

VDL 0.21 120 iP 36 42.70 0.4
LLS 0.31 333 iP 36 43.50 -0.7
TMA 0.54 205 iP 36 48.70 0.1
OSS 0.65 81 iP 36 50.30 -0.5
MMK 1.02 238 eP 36 56.70 -0.3
SLE 1.27 338 eP 37 02.20 1.0
S.D. = 0.8 on 6 of 6 obs.

OCT 26, 1990 18h 17m 35.13 ± 0.22s
56.121 N ± 4.1km 110.048 E ± 3.9km
DEPTH = 21.1km (6 depth phases)
5.1mb (55 obs.) 4.8Msz (5 obs.)
LAKE BAIKAL REGION (327)

Felt (V) at Nizhne-Angarsk and
Kumoro and (III) at Bodaybo.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 23C
Centroid Location:
Origin Time 18:17:36.8 0.7
Lat 56.26N 0.10 Lon 110.62E 0.21
Dep 15.0 FIX Half-duration 1.6
Moment Tensor: Scale 10**16 Nm
Mrr=-3.35 0.59 Mtt= 5.68 0.66
Mff=-2.34 0.74 Mrt=-2.48 2.50
Mrf= 4.77 1.65 Mtf= 3.41 0.69
Principal Axes:
T Vol= 7.00 Plg= 5 Azm=162
N 1.82 45 258
P -0.82 44 67
Best Double Couple: Mo=7.9*10**16
NP1: Strike=215 Dip=56 Slip=-149
NP2: 106 65 -38

BJI 16.59 163 eP 21 26.50 -1.3
1.2s 65.00nm 4.6mb
Z 15s 9.02um
eS 24 39.00

LZH 20.48 194 eP 22 13.00 -1.1
1.8s 95.00nm 4.9mb
Z 14s 6.34um 5.1MszX
pP 22 19.00 22km
PP 22 35.00
S 25 58.00
sS 26 04.00
LS 27 43.00
e 28 20.00
23 16.00 6.0X

SSE 26.22 158 eP 23 16.00 6.0X
Z 14s 4.40um 5.2MszX
N 12s 3.60um
E 12s 1.00um
pP 23 44.80 137kmX
sP 24 01.50
PP 24 17.30
S 27 56.00
24 12.72 1.1

GUN 33.08 222 P 24 12.72 1.1
KKN 33.41 222 P 24 14.40 0.0
0.5s 36.00nm 5.5mb
GKN 33.46 223 P 24 14.36 -0.4
PKI 33.56 222 P 24 15.90 0.1
0.7s 11.00nm 4.9mb
DMN 33.64 222 P 24 16.12 -0.3
0.8s 25.00nm 5.2mb

KEV 36.84 325 iP 24 43.60 0.6
0.6s 24.80nm 5.2mb
i 24 52.60 30km
SOD 37.93 321 iP 24 52.40 0.3
CHG 38.18 197 eP 24 56.00 1.3
MAIO 39.13 261 eP 25 05.00 2.4
eS 31 22.00

QUE 39.78 248 eP 25 09.10 0.9
SUF 40.30 315 eP 25 12.30 0.5
0.6s 11.20nm 4.8mb
NUR 42.08 313 iP 25 24.90 -1.6
1.0s 18.20nm 4.8mb
e 25 37.00 44kmX

IMA 42.99 36 iPc 25 34.30 0.2
DAG 43.50 345 iPd 25 37.00 -0.9
0.7s 14.38nm 4.9mb
TTA 44.02 41 ePc 25 42.40 0.0
MBC 44.18 15 ePc 25 43.50 0.1
0.7s 16.00nm 5.0mb

TAB 45.22 274 eP 26 03.00 10.6X
UPP 45.31 315 iP 25 52.80 0.2
HYB 45.38 224 eP 25 53.00 -0.7
FBA 45.65 36 iPc 25 55.60 0.3
HFS 46.67 317 eP 26 02.70 -0.7
0.7s 23.30nm 5.3mb

Z 16s 0.67um 4.7MszX
LR 46 00.00
NB2 47.01 319 P 26 06.30 0.2
0.7s 16.80nm 5.2mb
PMR 47.37 40 iPc 26 08.90 0.1
INK 47.44 27 ePd 26 18.90 9.6X
TOA 48.06 38 iPc 26 14.70 0.3

BMR 50.70 299 ePc 26 45.00 10.2X
KRA 50.75 304 iPd 26 35.90 0.8
0.7s 30.00nm 5.4mb
Z 15s 2.90um 5.4MszX
E 22s 3.00um

e 26 41.70 19km
SPC 51.21 303 eP 26 38.80 -0.1
BBTK 51.42 286 eP 26 43.00 2.5
CMP 51.61 296 ePc 26 49.00 7.2X
KSP 51.87 306 iPc 26 44.20 0.6
0.7s 38.00nm 5.4mb

i 26 50.50 21km
KOD 52.36 222 eP 26 48.00 0.0
CLL 53.00 309 iP 26 52.40 0.4
1.1s 21.00nm 5.0mb
SRO 53.09 303 iP 26 53.60 0.8
e 42 01.80
e 42 33.20

PRU 53.27 307 Pd 26 55.00 1.0
Z 15s 1.60um 5.2MszX
N 14s 1.00um
E 16s 1.00um
e 28 22.40 432kmX
ZST 53.38 304 eP 27 01.80 6.9X
e 41 58.80

VKA 53.70 304 iP 27 04.70 7.5X
e 27 09.00 14km
MOX 54.09 309 iP 27 01.00 1.0
0.7s 27.00nm 5.4mb
HOF 54.21 309 iPd 27 01.80 0.8

KHC 0.7s 8.00nm 4.9mb
54.32 307 P 27 03.00 1.1
N 14s 1.00um
E 14s 1.10um

RZN 54.33 293 iPc 27 03.00 0.8
VTS 54.45 295 iPd 27 04.00 1.0
WET 54.63 307 eP 27 04.30 0.2
0.7s 24.00nm 5.3mb
MMB 54.91 294 iPd 27 07.00 0.7
GRF 54.96 308 eP 27 07.40 0.9
0.9s 17.00nm 5.1mb

Z 18s 1.20um 5.0Msz
WTS 55.12 313 eP 27 07.50 -0.1
0.7s 19.00nm 5.2mb
PTJ 55.59 302 eP 27 11.40 0.2
VAY 55.70 294 eP 27 13.00 1.1
SKO 55.80 296 eP 27 12.00 -0.6

Z 16s 2.66um 5.4MszX
N 21s 4.87um
E 19s 4.68um
eS 34 50.00
e 41 20.00
LR 53 46.00

EKA 56.37 321 Pc 27 17.00 0.4
0.8s 15.00nm 5.1mb
ENN 56.41 312 eP 27 17.00 0.1
1.0s 22.00nm 5.1mb
MEM 56.50 312 P 27 17.90 0.4
FVI 56.56 305 P 27 18.00 0.0

OHR 56.76 295 eP 27 20.00 0.4
TRI 56.76 304 P 27 19.50 0.0
SOTA 56.80 306 iPc 27 20.50 0.5
0.8s 18.20nm 5.2mb
i 27 33.80 48kmX

UCC 57.03 313 P- 27 26.00 4.7X
OGA 57.15 306 eP 27 23.40 0.9
0.6s 7.00nm 4.9mb
PRNI 57.23 277 eP 27 24.00 1.0
SNF 57.28 313 P 27 23.30 0.2

DOU 57.48 313 Pd 27 24.30 -0.2
CTI 57.49 305 Pc 27 24.30 -0.5
CDF 57.64 310 eP 27 25.40 -0.4
1.0s 18.00nm 5.1mb
MBH 57.73 276 eP 27 28.00 1.5
BSF 58.29 310 eP 27 29.80 -0.6

1.0s 18.00nm 5.1mb
HAU 58.35 310 eP 27 30.10 -0.6
0.8s 10.75nm 5.0mb
Z 20s 0.55um 4.7Msz
MDI 58.57 306 P 27 17.50 -14.7X

ARV 58.81 302 P 27 32.00 -2.0
SFI 59.00 303 P 27 36.00 0.8
PGD 59.10 303 P 27 35.50 -0.7
CRE 59.18 303 P 27 37.50 0.9
ASS 59.27 302 P 27 38.50 1.3

ORX 59.46 307 P 27 38.21 -0.3
BOB 59.47 306 P 27 37.00 -1.6
BDI 59.48 304 P 27 40.00 1.3
DUI 59.49 300 P 27 39.00 0.3
AZI 59.73 301 P 27 40.00 -0.3
SDI 59.76 301 P 27 40.00 -0.6

PII 59.78 304 P 27 38.00 -2.6
SGO 59.91 299 Pc 27 42.20 0.7
LSD 59.96 308 P 27 42.92 0.7
LOR 59.98 311 eP 27 40.90 -1.1
0.8s 20.15nm 5.3mb
Z 20s 0.60um 4.7Msz

ROI 60.04 297 P 27 48.90 6.4X
TDS 60.09 297 P 27 44.00 1.2
LPL 60.10 308 eP 27 43.30 0.2
1.0s 19.00nm 5.2mb
LPG 60.11 308 eP 27 43.30 0.1
0.8s 11.40nm 5.1mb

MGR 60.11 298 P 27 43.00 0.1
LBF 60.15 311 eP 27 42.10 -1.1
0.9s 18.85nm 5.2mb
RSP 60.16 307 P 27 42.21 -1.1
SSF 60.29 311 eP 27 43.10 -1.0
0.9s 25.40nm 5.4mb

FIN 60.46 306 P 27 44.46 -0.8
SMF 60.48 311 eP 27 44.40 -1.0
0.8s 14.10nm 5.1mb
BNI 60.49 308 Pc 27 46.20 0.6
CZI 60.53 297 P 27 46.50 0.8
ROB 60.55 306 P 27 45.38 -0.5
RRL 60.55 307 P 27 46.61 0.5

26d 18h

AVF 60.57 311 eP 27 45.00 -0.9
1.0s 14.00nm 5.0mb
LDF 60.57 314 eP 27 44.70 -1.2
0.4s 17.20nm 5.5mb
FLN 60.58 315 eP 27 44.70 -1.3
0.6s 17.15nm 5.4mb
Z 20s 0.75um 4.8msz
PZZ 60.73 307 P 27 45.69 -1.6
ENR 60.80 307 P 27 45.59 -2.1
STV 60.83 307 P 27 46.10 -1.8
IMI 60.84 306 P 27 47.85 -0.1
BGF 60.97 311 eP 27 47.90 -0.8
0.8s 14.80nm 5.2mb
GRR 61.03 315 eP 27 47.80 -1.2
0.4s 6.30nm 5.1mb
SBF 61.08 306 eP 27 49.20 -0.4
0.8s 29.55nm 5.5mb
MAF 61.35 311 eP 27 50.90 -0.4
0.8s 18.80nm 5.3mb
LPF 61.39 314 eP 27 49.50 -2.0
0.4s 3.45nm 4.8mb
PGF 61.39 304 eP 27 51.30 -0.4
0.7s 17.65nm 5.3mb
TCF 61.45 311 eP 27 51.50 -0.5
0.8s 10.75nm 5.0mb
FRF 61.67 307 eP 27 52.90 -0.6
0.8s 16.10nm 5.2mb
LSF 61.77 312 eP 27 52.90 -1.2
0.8s 16.80nm 5.2mb
MFF 62.18 313 eP 27 56.10 -0.7
0.4s 9.15nm 5.3mb
EPF 64.86 310 eP 28 14.20 -0.4
0.6s 13.55nm 5.3mb
EDM 65.34 27 eP 28 17.00 -0.4
FFC 66.46 20 eP 28 24.00 -0.5
0.6s 17.00nm 5.4mb
LON 68.67 35 P 28 38.00 -0.6
SCH 69.39 358 eP 28 43.00 0.2
DUG 77.40 32 P 29 30.80 0.8
DAU 77.66 31 P 29 32.00 0.4
TNP 77.94 36 P 29 33.00 0.0
0.9s 10.09nm 4.9mb
WB5 78.45 157 eP 29 34.20 -1.5
ISA 79.70 38 eP 29 43.00 0.5
CLC 79.86 38 eP 29 44.00 0.6
GOL 79.92 27 P 29 43.90 0.0
0.8s 7.81nm 4.8mb
GSC 80.60 37 eP 29 48.00 0.7
SBB 80.81 38 eP 29 49.00 0.6
MWC 81.15 39 eP 29 50.00 -0.4
TPC 81.94 37 eP 29 54.00 -0.3
ASPA 82.01 158 eP 29 53.60 -1.0
0.6s 8.80nm 5.0mb
PLM 82.35 38 eP 29 57.00 0.4
BAR 83.03 38 eP 30 01.00 1.0
ANMO 84.11 29 P 30 06.40 0.8
1.1s 11.87nm 5.0mb
ALO 84.11 29 eP 30 06.00 0.3
1.0s 10.25nm 5.0mb
TUL 85.72 21 eP 30 14.30 0.8
1.0s 9.30nm 5.0mb
Z 22s 0.39um 4.8msz
LR 59 00.00
SIO 85.78 21 e(P) 30 13.90 0.1
MEO 86.22 23 iPc 30 17.40 1.4
OLY 86.91 17 P 30 09.00 -10.3X
BCAO 87.20 274 iPc 30 21.00 0.8
0.6s 7.00nm 5.1mb
SIV 139.38 347 PKP 37 02.00 0.4
S.D. = 0.9 on 132 of 143 obs.

& OCT 26, 1990 18h 20m 19.76s
59.974 N 152.821 W
DEPTH = 97.2km
SOUTHERN ALASKA (2)
<AGS-P>.

OPT 0.38 213 iP 20 34.02 -0.7
eS 20 44.84
RED 0.45 3 iP 20 34.49 -0.7
eS 20 46.02
RSO 0.49 4 iP 20 35.03 -0.6
IS 20 46.73
RDT 0.64 19 iP 20 35.83 -0.8
HOM 0.67 118 iP 20 36.61 -0.3
eS 20 49.44
AUE 0.68 205 iP 20 36.04 -0.9

AUH 0.69 208 iP 20 36.37 -0.8
AUI 0.71 206 iP 20 36.37 -0.9
PDB 0.72 255 iP 20 36.66 -0.6
XLV 0.76 133 eP 20 36.73 -1.0
eS 20 50.08
NNL 0.77 84 iP 20 37.87 0.0
CNPM 0.92 119 eP 20 38.52 -0.9
BRLK 1.00 101 iP 20 39.50 -0.8
eS 20 54.18
NKA 1.10 45 iP 20 42.35 1.0
MCNL 1.11 225 iP 20 40.48 -1.0
eS 20 56.08
CDD 1.13 202 iP 20 40.53 -1.2
CKL 1.25 11 eP 20 42.71 -0.6
eS 21 00.96
BGL 1.31 9 iP 20 43.69 -0.3
CRP 1.34 14 eP 20 44.16 -0.3
eS 21 03.00
SEW 1.70 84 eP 20 47.15 -1.6
SUA 1.81 33 eP 20 50.01 -0.4
eS 21 12.69
PMS 2.05 50 iP 20 52.57 -0.9
IS 21 16.58
SKT 2.11 17 eP 20 53.51 -0.7
PWA 2.22 39 eP 20 55.10 -0.5
PLRM 2.43 47 eP 20 56.68 -1.8
eS 21 24.02
KNIM 2.57 79 iP 20 57.49 -2.9
KNK 2.59 54 eP 20 58.55 -2.1
MTU 2.60 87 eP 20 59.11 -1.7
GHO 2.62 45 eP 20 59.69 -1.5
CUT 2.73 26 eP 21 02.14 -0.4
SML 2.86 48 eP 21 02.62 -1.8
GLI 2.98 70 eP 21 02.64 -3.3
SCM 3.27 53 P 21 08.03 -1.9
VZW 3.28 68 eP 21 07.32 -2.8
VLZ 3.41 67 eP 21 08.95 -2.8
KLU 3.72 63 iP 21 13.25 -2.9
TOA 3.88 54 eP 21 16.19 -2.1
RND 3.93 27 eP 21 17.73 -1.3
GLB 4.67 68 eP 21 25.93 -3.2
39 obs. associated

* OCT 26, 1990 18h 41m 12.63± 1.07s
50.122 N ±15.0km 19.158 E ± 7.2km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 3.0 (VKA).

KRA 0.51 97 iPg 41 23.40 0.5
ISg 41 30.70
SPC 1.17 142 ePn 41 33.80 -0.8
i(Sg) 41 51.40
KSP 1.97 293 ePn 41 46.20 -0.2
0.8s 45.00nm
iPg 41 49.20
IS 42 16.20
i 42 19.80
PSZ 2.26 167 eP 41 56.10 5.5X
VKA 2.63 226 ePg 41 57.00 1.1
ISg 42 39.60
PRU 2.98 269 ePg 42 06.90 6.2X
e 42 45.50
Sg 42 48.60
KHC 3.76 257 Pn 42 11.30 -0.7
Pg 42 22.00
Sn 42 54.00
Sg 43 12.20
CLL 4.09 289 (Pg) 42 32.00 15.5X
eSg 43 24.00
S.D. = 1.2 on 5 of 8 obs.

* OCT 26, 1990 20h 00m 42.02± 1.66s
33.687 S ± 6.6km 71.593 W ±13.0km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)

LCCH 0.21 5 iP 00 46.50 -0.1
IS 00 57.50
LNV 0.31 151 iPc 00 48.50 0.1
IS 01 02.00
TACH 0.55 87 iPd 00 53.50 0.4
IS 01 12.00
CHCH 0.82 108 eP 00 57.60 -0.3
i 01 15.70
ROCH 0.86 34 iPd 00 59.50 0.7
IS 01 22.00

PCH 0.90 86 iPc 00 59.58 -0.1
IS 01 22.80
PEL 0.93 55 eP 00 59.00 -0.9
IS 01 22.50
MDZ 2.43 72 eP 01 28.00 5.5X
S.D. = 0.6 on 7 of 8 obs.

* OCT 26, 1990 20h 06m 59.60± 0.54s
56.136 S ±14.2km 27.737 W ±14.2km
DEPTH = 110.0km (geophysicist)
4.9mb (3 obs.)
SOUTH SANDWICH ISLANDS REGION (153)

MAW 40.26 144 iP 14 27.60 1.2
SIV 47.41 314 P 15 25.40 0.9
SOB1 47.94 342 eP 15 29.10 0.5
CNCB 49.65 306 P 15 45.00 2.6X
LPB 49.95 306 P 15 43.00 -1.4
ZOB0 50.19 306 P 15 47.00 0.5
i 16 14.80
BUL 54.89 73 iPd 16 15.70 -5.2X
KRI 58.15 72 iPd 16 36.50 -7.6X
LIC 64.90 25 P 17 29.40 0.4
KIC 65.10 25 P 17 30.80 0.5
0.8s 10.50nm 4.8mb
TIC 65.31 25 P 17 32.00 0.4
LKO 67.98 24 P 17 47.68 -0.9
0.7s 11.00nm 4.9mb
BCAO 71.20 50 iPc 18 08.20 -0.1
0.7s 16.00nm 5.0mb
i 19 02.80
DMN 125.09 92 PKP 25 48.60 0.3
GKN 125.13 91 PKP 25 47.60 -0.6
PKI 125.23 92 PKP 25 48.50 -0.2
KKK 125.33 92 PKP 25 48.50 -0.2
GUN 125.75 92 PKP 25 47.70 -2.1
MBC 143.93 336 ePKP 26 21.00 -0.6
0.6s 3.00nm
INK 145.67 321 ePKP 26 26.00 1.3
BJI 151.44 109 ePKP 26 41.00 6.4X
0.8s 6.00nm
S.D. = 1.0 on 17 of 21 obs.

? OCT 26, 1990 21h 07m 27.04± 5.08s
9.792 S ±48.2km 121.736 E ±24.2km
DEPTH = 33.0km (normal)
5.0mb (1 obs.)
SAVU SEA (288)

KUPT 1.88 101 eP 07 57.50 0.1
KNA 9.06 132 eP 09 48.00 1.4
eS 11 24.00
MTM 9.70 109 eP 09 47.50 0.1
0.3s 79.00nm 6.4mb X
eS 11 33.00
MBL 11.45 109 eP 10 12.00 0.6
0.3s 3.00nm 5.0mb
eS 12 19.00
NANU 14.02 204 eP 10 45.50 -0.1
eS 13 17.00
WB5 15.79 131 eP 11 08.70 0.0
eS 14 00.00
ASPA 18.04 141 eP 11 34.80 -2.2
0.9s 6.60nm 3.8mb X
S.D. = 1.3 on 7 of 7 obs.

* OCT 26, 1990 21h 40m 53.31± 0.57s
29.711 N ±11.4km 50.845 E ± 7.7km
DEPTH = 33.0km (normal)
4.6mb (6 obs.)
SOUTHERN IRAN (353)

DHR 3.45 191 eP 41 50.00 4.0X
BBU 3.50 186 (Pn) 40 59.60 -47.1X
(Sn) 41 48.40
RYD 6.24 218 eP 42 24.50 -1.0
MJMA 6.24 233 eP 42 27.00 1.4
QASM 7.41 243 eP 42 40.00 -1.9
AFIF 8.83 233 ePd 43 03.30 1.6
TAB 9.14 337 eP 43 10.00 11.9X
MAIO 9.79 46 eP 43 48.00 33.0X
BBTK 17.94 309 eP 45 00.00 -1.9
GKN 29.59 85 P 46 58.66 0.9
0.8s 11.00nm 4.7mb
DMN 30.07 85 P 47 01.66 -0.5
0.9s 10.00nm 4.6mb
KKK 30.19 85 P 47 03.60 0.4

PKI 30.35 85 P 47 04.46 -0.2
1.0s 14.00nm 4.7mb
GUN 30.68 85 P 47 06.30 -1.4
HFS 39.29 331 eP 48 21.70 1.3
0.8s 6.90nm 4.5mb
NB2 40.81 332 P 48 34.10 1.1
0.9s 2.20nm 3.9mb
LKO 56.24 261 P 50 32.84 -0.3
0.5s 6.00nm 4.8mb
LIC 57.43 258 P 50 42.00 0.5
TUL 107.57 332 e(PKP) 59 24.20 5.7X
1.0s 6.00nm
S.D. = 1.3 on 14 of 19 obs.

OCT 26, 1990 22h 18m 09.15 ± 1.30s
28.355 N ± 7.2km 52.400 E ± 4.6km
DEPTH = 26.2 ± 10.7 km
4.6mb (14 abs.)

SOUTHERN IRAN (353)

BBU 2.74 219 iPn 18 52.40 0.0
(Sn) 19 41.40
BRF 2.79 216 (Pn) 18 50.60 -2.4
BJA 2.84 215 ePn 18 54.20 0.4
(Sn) 19 40.80
DHR 2.87 225 eP 18 57.10 3.0X
RYD 6.32 236 iP+ 19 43.40 0.2
MJMA 6.81 250 ePd 19 48.80 -1.2
TEM 7.41 354 e(P) 19 51.00 -7.5X
QASM 8.21 256 eP 20 07.50 -2.1
AFIF 9.30 245 ePd 20 27.10 2.5
MAIO 9.93 35 eP 20 32.00 -1.4
eS 22 46.00
QUE 12.83 78 eP 21 13.00 0.2
ABHA 13.40 223 eP 21 20.00 -0.4
CSTJ 13.94 285 eP 21 38.90 11.6X
SHMJ 14.98 291 Pc 21 37.40 -3.4X
DSI 15.10 286 eP 21 48.00 5.7X
MML 15.21 290 eP 21 43.00 -0.9
HOL 15.24 278 eP 21 47.40 3.2X
BADA 15.31 275 eP 21 46.70 1.6
ZNT 15.49 289 eP 21 50.00 2.5
BBTK 19.85 310 iPd 22 49.00 7.9X
ELL 20.69 300 eP 22 50.00 0.1
KHL 21.49 303 iP 22 58.70 0.7
NDI 21.80 83 iPd 23 03.50 2.4
0.8s 26.12nm 4.7mb
PDO 21.94 112 eP 23 04.50 1.9
IZM 23.19 302 eP 23 18.00 3.2X
CFR 25.53 318 eP 23 38.00 0.9
HYB 26.38 109 ePc 23 47.00 1.7
GBA 27.52 117 Pc 23 57.50 1.8
0.6s 5.10nm 4.4mb
DMN 28.85 84 P 24 07.88 -0.1
0.8s 13.00nm 4.7mb
KKN 28.97 83 P 24 08.42 -0.6
0.6s 12.00nm 4.8mb
PKI 29.12 84 P 24 08.16 -2.3
0.6s 10.00nm 4.7mb
GUN 29.48 83 P 24 13.68 0.0
SPC 32.21 319 eP 24 37.30 -0.1
SRO 32.75 316 eP 24 47.00 5.1X
KRA 32.80 320 eP 24 42.10 -0.2
e 24 45.60
ZST 33.65 316 eP 24 54.20 4.5X
VKA 34.16 316 e(P) 25 01.30 7.2X
KSP 35.23 320 eP 25 02.80 -0.5
KHC 36.17 316 eP 25 11.80 0.5
SOTA 37.08 312 iPc 25 18.70 -0.4
0.5s 7.90nm 4.8mb
i 25 33.10
NUR 37.20 338 eP 25 19.20 -0.5
CLL 37.32 319 iPd 25 21.00 0.2
SUF 38.41 341 iP 25 29.40 -0.5
0.4s 3.10nm 4.5mb
LPG 39.72 308 eP 25 43.10 1.7
0.6s 3.60nm 4.3mb
LPL 39.74 308 eP 25 43.60 2.2
0.6s 2.25nm 4.1mb
BCAO 40.01 240 ePd 25 43.00 -0.7
0.6s 4.00nm 4.3mb
HFS 41.13 332 eP 25 51.50 -0.8
0.5s 8.20nm 4.7mb
Z 17s 0.07um 3.6mszX
LR 43 23.00
SOD 42.03 345 eP 26 03.00 3.3X
NB2 42.65 332 P 26 04.00 -0.9

CHG 0.6s 3.60nm 4.3mb
43.48 92 eP 26 11.90 -0.2
1.0s 14.75nm 4.7mb
LZH 43.78 66 eP 26 13.50 -1.1
KEV 43.94 348 eP 26 15.00 -0.2
LKO 57.41 263 PKP 27 56.48 -1.7
KIC 58.18 259 PKP 28 04.20 0.7
TIC 58.28 260 PKP 28 04.00 -0.3
LIC 58.49 259 PKP 28 04.60 -1.1
SLR 58.57 206 eP 28 11.50 5.3X
SSE 58.91 69 eP 28 06.50 -1.9
YKA 88.87 354 eP 31 06.10 4.1X
0.7s 2.70nm 4.7mb
S.D. = 1.3 on 45 of 59 obs.

OCT 26, 1990 23h 07m 16.67 ± 0.60s
43.816 N ± 4.2km 110.163 W ± 6.6km
DEPTH = 5.0km (geophysicist)

WYOMING (460)
ML 3.0 (BUT).

IMW 0.57 278 eP 07 27.20 -0.9
BW06 1.13 157 eP 07 38.00 -0.5
LTMT 1.57 298 iPd 07 45.20 -0.3
PTI 1.87 240 eP 07 50.00 0.3
MEMT 1.88 342 ePn 07 50.20 0.3
BGMT 1.95 317 iPd 07 51.30 0.3
HPI 2.13 268 eP 07 54.00 0.4
MCMT 2.18 299 ePn 07 54.60 0.3
SXM 2.45 343 ePn 07 58.00 -0.1
LRM 2.58 322 ePn 08 00.20 0.1
HBMT 2.63 319 ePn 08 01.10 0.3
BUT 2.78 323 ePg 08 06.80 3.9X
eS 08 42.20
HRY 3.13 338 ePn 08 07.10 -0.5
DAU 3.50 194 e(P) 08 13.50 0.4
GOL 5.45 137 e(P) 08 45.00 4.1X
S.D. = 0.5 on 13 of 15 obs.

? OCT 26, 1990 23h 53m 18.44 ± 1.97s
1.145 N ± 35.4km 129.122 E ± 60.1km
DEPTH = 33.0km (normal)
4.7mb (4 obs.)

MALMAHERA (267)

WB5 21.52 166 eP 58 07.00 0.1
QIS 23.89 155 ePd 58 43.00 12.8X
ASPA 25.10 170 eP 58 52.40 10.6X
0.6s 9.00nm
CHTO 34.41 303 iP 00 07.00 1.9
1.0s 6.25nm 4.5mb
BJI 40.47 345 eP 01 11.00 15.4X
LZH 41.93 329 (P) 01 08.50 0.6
GUN 49.17 307 P 02 05.48 -0.5
0.6s 19.00nm 5.3mb
PKI 49.41 306 P 02 06.94 -0.9
0.6s 4.00nm 4.7mb
KKN 49.60 306 P 02 08.48 -0.7
DMN 49.67 306 P 02 09.26 -0.4
GKN 50.21 306 P 02 13.58 -0.1
0.6s 6.00nm 4.8mb
HYB 52.25 291 eP 02 36.00 6.8X
S.D. = 1.1 on 8 of 12 obs.

? OCT 26, 1990 23h 56m 15.94 ± 3.16s
45.988 N ± 32.2km 27.338 E ± 14.8km
DEPTH = 33.0km (normal)

ROMANIA (358)

VRI 0.44 255 iPd 56 25.00 -0.7
CVO 0.83 259 iPd 56 32.00 0.8
CFR 0.99 144 iPd 56 33.00 -0.4
ISR 1.02 214 ePc 56 34.00 0.0
MLR 1.10 244 iPd 56 35.00 -0.1
TLB 1.48 160 ePc 56 41.00 0.5
S.D. = 0.7 on 6 of 6 obs.

OCT 27, 1990 00h 27m 34.70 ± 2.28s
21.384 S ± 12.0km 67.916 W ± 14.8km
DEPTH = 291.8 ± 47.5 km

CHILE-BOLIVIA BORDER REGION (124)

ANT 3.27 225 eP 28 33.00 0.0
eS 29 12.50
CCH 4.32 23 P 28 44.60 -0.3
CNCB 4.55 359 iPc 28 48.20 0.4
S 29 40.00

LPB 4.83 358 P 28 51.00 0.1
ZOB0 5.09 358 Pc 28 54.00 -0.1
ARE 5.95 325 eP 29 04.00 -0.1
eS 30 06.00
SIV 8.42 52 iPd 29 34.20 0.1
S.D. = 0.3 on 7 of 7 obs.

OCT 27, 1990 01h 13m 25.44 ± 0.28s
40.500 N ± 3.1km 19.558 E ± 2.4km
DEPTH = 15.5 ± 3.3 km
4.0mb (2 obs.)

ALBANIA (391)
ML 4.3 (ATH). Felt (V) at Vlore,
Brotaj and Sevaster; (IV) at
Sinonaj, Dhamblan and Kalivac;
(III) at Tepelina.

VLO 0.06 237 iPg 13 28.00 -0.5
BERA 0.36 56 iPg 13 31.40 -1.6
TPE 0.40 121 iPg 13 30.00 -3.7X
SRN 0.71 151 iPg 13 36.80 -2.1
KEK 0.81 167 ePn 13 39.00 -1.6
LSK 0.87 113 iPg 13 38.70 -3.1X
TIR 0.88 15 iPnc 13 42.50 0.7
KBN 0.96 82 iPnc 13 41.00 -2.3
OHR 1.12 57 iPnc 13 45.10 -0.9
iSg 14 05.50
IGT 1.13 148 ePc 13 44.96 -1.3
eS 14 01.92
LCI 1.24 263 Pc 13 46.50 -1.4
eSn 14 02.00
FNA 1.41 78 iPd 13 49.58 -1.0
iS 14 08.37
ULC 1.48 351 ePg 13 51.60 0.2
eSg 14 15.50
KKS 1.70 22 iPn 13 57.00 2.4
KZN 1.70 96 ePn 13 55.00 0.3
BDV 1.86 343 ePn 13 57.00 0.0
eSn 14 25.00
BCI 1.90 11 iPd 14 00.00 2.5X
TTG 1.94 353 ePn 13 58.80 0.7
eSn 14 26.00
HCY 2.10 338 ePn 14 00.20 -0.2
eSn 14 29.00
PVY 2.12 8 ePn 14 02.50 1.7
eSn 14 30.00
GRG 2.21 77 iPd 14 02.10 0.1
eS 14 30.76
LIT 2.28 99 iPd 14 03.02 0.0
eS 14 31.10
EVR 2.35 132 ePn 14 04.70 0.6
NKY 2.35 350 ePn 14 04.00 -0.1
IVA 2.38 6 ePn 14 06.30 1.8
eSn 14 36.00
ORI 2.42 261 P 14 05.30 0.3
eSn 14 34.00
VLS 2.45 161 ePn 14 03.20 -2.3
ROI 2.48 249 P 14 07.00 1.2
BRY 2.52 343 ePn 14 06.60 0.1
eSn 14 37.00
AGG 2.60 124 ePd 14 07.84 0.3
THE 2.60 86 ePc 14 07.60 0.1
IS 14 38.45
CSI 2.61 255 P 14 10.20 2.5X
TDS 2.61 252 P 14 07.50 -0.2
KNT 2.62 74 iPc 14 07.62 -0.2
eS 14 40.20
MMN 2.80 259 P 14 11.80 1.4
eSn 14 46.80
PLE 2.83 358 ePn 14 12.50 1.6
eSn 14 48.00
SOH 2.91 82 iPd 14 11.70 -0.2
eS 14 47.10
CZI 2.93 245 P 14 12.90 0.7
GRI 2.95 236 P 14 12.46 0.0
PLG 2.97 91 ePn 14 13.00 0.2
KK8 2.99 62 iPc 14 14.00 0.9
NEO 3.06 112 ePn 14 14.00 -0.1
MGR 3.08 265 P 14 14.70 0.3
eSn 14 48.50
SRS 3.12 77 ePd 14 14.58 -0.4
SGO 3.24 272 P 14 16.70 0.1
eSn 14 52.50
MMB 3.34 70 iPc 14 19.00 0.9
VTS 3.45 51 iP 14 20.00 0.3
HYAR 3.54 320 ePn 14 19.50 -1.4
ITM 3.80 150 ePn 14 23.70 -0.9

27d 01h

ATN	3.94	235	P	14	24.90	-1.7	TCF	0.39	276	Pg	01	23.80	-0.4	KKN	50.76	272	P	08	26.60	0.0	
			eSn	15	07.60					Sg	01	28.70			0.5s	18.00nm			5.1mb		
PGB	4.02	58	iPc	14	28.00	0.3	AVF	0.68	36	Pg	01	29.20	-0.3	PKI	50.80	272	P	08	26.88	-0.2	
DUI	4.03	288	P	14	28.00	1.0				Sg	01	38.00			0.5s	14.00nm			5.0mb		
RZN	4.07	71	iPc	14	29.00	0.4			S.D. = 0.7	on	4	of	4	obs.	DMN	50.99	272	P	08	28.56	0.1
ATH	4.10	127	ePn	14	28.60	-0.2									GKN	51.09	273	P	08	28.96	-0.1
PLD	4.19	66	iP	14	31.00	0.8										0.4s	37.00nm			5.5mb	
RFI	4.30	283	P	14	33.79	2.1									NDI	55.92	278	iPd	09	04.00	-0.3
BEO	4.37	8	eP	14	50.00	17.4X									KEV	57.26	339	eP	09	11.00	-2.2
SDI	4.50	287	P	14	34.80	0.2									SOD	59.01	337	iP	09	23.90	-1.5
			eSn	15	22.50										SUF	62.46	333	iP	09	46.80	-1.9
KDZ	4.57	74	iP	14	35.00	-0.6										0.6s	4.30nm			4.6mb	
RDO	4.58	80	ePn	14	34.90	-0.8									NUR	64.57	332	iP	10	00.50	-2.0
VLI	4.61	144	ePn	14	34.10	-2.0										0.4s	7.60nm			5.0mb	
AZI	4.85	290	P	14	40.50	1.0									WB5	65.50	192	eP	10	06.40	-2.4
ALN	4.95	83	eP	14	39.30	-1.5									GBA	65.50	265	Pd	10	08.10	-0.9
PZI	5.02	228	P	14	37.91	-4.0X										0.6s	3.90nm			4.5mb	
MNS	5.50	292	P	14	48.00	0.0									UPP	67.31	335	iP	10	18.20	-1.6
ASS	5.76	299	P	14	52.70	0.3									NB2	68.15	338	P	10	23.70	-1.5
ARV	5.77	303	P	14	50.50	-2.0										0.7s	9.70nm			4.8mb	
			eSn	15	22.50										HFS	68.23	337	eP	10	23.80	-1.8
VBY	5.91	329	e(Pn)	14	51.00	-3.4X										0.4s	8.90nm			5.0mb	
			eSn	15	00.40										TNP	68.36	57	iP	10	27.00	0.0
PTJ	6.00	335	eP	14	54.20	-1.6									ASPA	69.28	192	eP	10	30.80	-1.6
CEY	6.44	326	ePn	15	00.00	-2.0										1.1s	4.90nm			4.2mb	
			eSn	16	13.50										KRA	74.40	327	eP	11	02.50	0.1
CRE	6.47	301	P	15	01.00	-1.4									SPC	74.98	327	eP	11	06.60	0.5
LJU	6.64	328	ePn	15	02.60	-2.2									KSP	75.10	330	ePd	11	06.50	0.0
			eSn	16	18.00										CLL	75.85	332	iPd	11	10.20	-0.5
SFI	6.66	303	P	15	05.30	0.2										1.0s	15.00nm			4.7mb	
			eSn	16	14.00										BRG	75.90	331	i(P)	11	11.00	0.0
TRI	6.71	323	iPnc	15	01.70	-4.0X									PRU	76.44	330	Pd	11	14.40	0.4
			iSn	16	17.30											e				11	16.70
PGD	6.73	303	P	15	05.00	-1.2									ALO	76.80	54	e(P)	11	17.00	0.4
VOY	6.90	325	ePn	15	06.10	-2.4									SRO	76.85	327	eP	11	16.80	0.5
			eSn	16	23.20										ZST	76.99	328	eP	11	17.30	0.2
VVI	7.56	319	P	15	14.60	-3.0X									KHC	77.50	330	eP	11	20.90	1.0
FVI	7.83	323	P	15	19.80	-1.5									GRF	77.83	332	eP	11	21.90	0.2
			eSn	16	43.30											1.1s	21.00nm			4.8mb	
CTI	8.00	316	P	15	20.50	-3.4X									ADI	80.20	307	eP	11	36.00	1.2
MDI	8.92	309	P	15	34.10	-2.4									CDF	80.22	334	eP	11	34.60	-0.1
SOTA	9.02	321	iPnc	15	36.60	-1.5										1.0s	14.00nm			4.7mb	
			i	15	42.90										VAY	80.32	320	eP	11	35.50	0.3
			iSn	17	04.50										HAU	80.87	334	eP	11	37.80	-0.2
HFS	19.99	351	eP	18	00.20	0.3									BSF	80.88	334	eP	11	37.80	-0.4
	1.4s	22.10nm			4.3mb									JVI	80.98	306	iPd	11	40.00	1.2	
NB2	21.20	349	P	18	09.70	-2.7								FLN	82.14	338	eP	11	44.00	-0.6	
	0.7s	3.00nm			3.8mb										0.5s	7.30nm			4.7mb		
SUF	22.60	8	eP	18	13.40	-12.9X								LDF	82.20	338	eP	11	44.70	-0.2	
BCAO	25.92	182	ePd	20	45.70	18.7X								LOR	82.29	335	eP	11	45.10	-0.3	
	0.5s	53.00nm													0.7s	5.50nm			4.4mb		
			i	22	12.00									LBF	82.51	335	eP	11	46.30	-0.3	
															0.8s	7.40nm			4.5mb		
														SSF	82.58	335	eP	11	46.80	-0.1	
															0.9s	8.20nm			4.5mb		
														GRR	82.58	339	eP	11	47.10	0.2	
															0.7s	11.00nm			4.8mb		
														MBH	82.85	305	iPd	11	49.60	1.0	
														SMF	82.85	335	eP	11	48.50	0.2	
															0.9s	19.65nm			4.9mb		
														AVF	82.87	335	eP	11	48.60	0.2	
															0.7s	6.60nm			4.6mb		
														LPL	82.95	333	eP	11	49.60	0.4	
															0.7s	6.60nm			4.6mb		
														LPF	82.96	339	eP	11	49.10	0.3	
															0.6s	6.30nm			4.6mb		
														LPG	82.96	333	eP	11	49.70	0.4	
															0.6s	6.30nm			4.6mb		
														MAF	83.61	336	eP	11	52.90	0.7	
															0.7s	18.20nm			5.0mb		
														TCF	83.66	336	eP	11	52.80	0.3	
															0.5s	4.35nm			4.6mb		
														LSF	83.89	336	eP	11	54.00	0.4	
															0.6s	9.90nm			4.8mb		
														MFF	84.03	337	eP	11	55.00	0.7	
															0.6s	9.00nm			4.8mb		
														FRF	84.71	332	eP	11	58.00	0.3	
															0.9s	9.85nm			4.7mb		
														RJF	84.75	336	eP	11	58.50	0.6	
															0.7s	6.60nm			4.6mb		
														LRG	84.91	332	eP	11	58.80	0.1	
															0.6s	6.30nm			4.6mb		
														CAF	84.94	335	eP	11	59.60	0.7	
															0.5s	8.40nm			4.8mb		
												</									

0.5s 10.20nm 4.9mb
LPO 85.42 336 eP 12 02.30 1.0
0.5s 8.00nm 4.8mb
EPF 87.18 336 eP 12 09.90 0.0
0.9s 9.00nm 4.7mb
PDCR 147.29 10 ePKP 19 06.80 2.1
S.D. = 0.9 on 67 of 67 obs.

? OCT 27, 1990 04h 02m 46.21 ± 2.70s
22.537 S ± 53.9km 63.772 W ± 18.8km
DEPTH = 543.3 ± 52.8 km
SALTA PROVINCE, ARGENTINA (129)

CCH 5.59 336 P 04 23.00 1.1
CNCB 6.94 324 P 04 36.00 1.2
SIV 6.99 22 P 04 34.40 -0.3
LPB 7.23 325 eP 04 35.00 -2.5
ZOBO 7.46 326 P 04 40.20 0.2
06 10.00
05 00.00 0.2
06 48.00
PPD 11.55 90 eP 05 20.40 -0.3
BAO 16.41 68 eP 06 10.00 0.5
S.D. = 1.5 on 8 of 8 obs.

? OCT 27, 1990 04h 35m 38.06 ± 4.84s
40.278 N ± 39.6km 23.932 E ± 11.8km
DEPTH = 10.0km (geophysicist)
GREECE (364)

OUR 0.07 34 iPc 35 40.09 -0.3
eS 35 41.22
SOH 0.70 321 ePc 35 51.06 -0.8
eS 35 59.74
SRS 0.88 343 ePc 35 55.86 1.0
eS 36 04.70
KNT 1.18 319 ePd 35 59.50 -0.6
eS 36 14.86
GRG 1.35 301 ePd 36 03.58 0.7
S.D. = 1.1 on 5 of 5 obs.

& OCT 27, 1990 06h 43m 10.36s
59.110 N 152.503 W
DEPTH = 82.2km
SOUTHERN ALASKA (2)
<AGS-P>.

AUE 0.51 300 eP 43 24.06 -0.5
AUI 0.53 296 eP 43 24.14 -0.6
XLV 0.53 49 eP 43 24.29 -0.5
AUH 0.55 298 eP 43 24.97 0.0
CDD 0.62 253 eP 43 25.03 -0.6
OPT 0.66 326 iP 43 25.50 -0.5
eS 43 37.42
HOM 0.70 38 eP 43 26.24 -0.2
eS 43 37.80
CNPM 0.77 57 eP 43 26.52 -0.7
eS 43 38.81
PDB 1.10 309 iP 43 29.91 -1.1
eS 43 44.84
NNL 1.12 33 eP 43 31.21 0.0
RED 1.32 354 eP 43 33.08 -0.8
RSO 1.36 355 eP 43 33.84 -0.7
RDT 1.47 2 iP 43 34.93 -0.9
eS 43 53.91
CKL 2.10 2 eP 43 43.53 -0.7
BGL 2.16 1 eP 43 44.50 -0.7
CRP 2.17 4 eP 43 44.76 -0.6
16 obs. associated

? OCT 27, 1990 07h 30m 11.66 ± 4.91s
31.372 S ± 27.5km 178.960 W ± 74.1km
DEPTH = 503.2 ± 21.4 km
4.8mb (2 obs.)
KERMADEC ISLANDS REGION (177)

HBZ 6.61 199 eP 31 55.30 0.3
eS 33 10.40
PUZ 7.07 198 eP 32 00.60 1.0
eS 33 19.70
NOZ 7.64 198 P 32 05.60 0.2
TAZ 7.79 207 eP 32 08.40 1.4
WLZ 7.86 213 eP 32 07.90 0.1
eS 33 40.80
UTU 7.87 209 eP 32 10.40 2.5
WHH 8.37 205 eP 32 12.70 -0.4
NGZ 8.97 208 eP 32 19.30 -0.2

32 19.50 -0.4
32 29.70 -0.5
32 30.50 -2.4
34 21.10
32 38.10 0.3
32 37.60 -1.4
32 40.50 -1.0
34 35.30
32 41.60 -1.5
34 39.00
32 57.80 1.0
33 30.20 -1.7
34 56.50 0.8
37 20.60 -0.9
43 00.20
38 02.70 0.0
38 16.30 0.2
38 59.10 0.6
39 21.60 1.9
48 56.00 15.3X
48 59.50 8.4X
49 06.40 11.7X
49 12.50 13.7X
49 13.40 14.5X
49 13.60 14.1X
49 17.00 15.3X
49 18.00 16.2X
49 17.00 15.2X
S.D. = 1.3 on 23 of 32 obs.

& OCT 27, 1990 07h 50m 37.27s
63.079 N 150.054 W
DEPTH = 100.0km
CENTRAL ALASKA (1)
<AGS-P>.

HUR 0.22 118 eP 50 51.39 1.4
eS 51 02.27
RND 0.64 58 iP 50 54.12 -0.3
eS 51 06.91
CUT 0.68 188 iP 50 54.58 -0.2
eS 51 07.83
MCK 0.83 37 iP 50 55.79 -0.4
eS 51 09.39
SKT 1.30 212 iP 51 00.77 -0.7
eS 51 18.73
GHO 1.41 158 eP 51 02.83 -0.1
PWA 1.44 177 eP 51 03.22 0.1
SML 1.51 147 eP 51 03.51 -0.5
PLRM 1.55 163 eP 51 03.84 -0.7
PMR 1.55 163 iPd 51 03.90 -0.6
NEA 1.57 16 iP 51 03.80 -0.9
WRH 1.65 31 iP 51 04.73 -1.0
SUA 1.65 192 eP 51 05.63 -0.3
SCM 1.78 133 eP 51 06.82 -0.7
KNK 1.83 155 eP 51 07.63 -0.6
PMS 1.86 173 eP 51 08.08 -0.4
eS 51 31.31
CCB 1.86 31 iP 51 07.31 -1.2
HDA 1.92 45 iP 51 08.17 -1.1
DDM 2.01 67 eP 51 10.69 0.1
TOA 2.04 117 iPc 51 10.60 -0.4
CRP 2.07 209 eP 51 10.76 -0.7
FBA 2.08 28 iPd 51 10.40 -1.0
PAX 2.09 91 eP 51 11.27 -0.4
BGL 2.13 212 eP 51 11.83 -0.3
SDG 2.14 103 eP 51 11.79 -0.5
CKL 2.17 211 eP 51 12.73 0.0
GLM 2.25 30 iP 51 12.51 -1.2
KLU 2.50 128 iP 51 15.67 -1.5
GLI 2.61 146 eP 51 16.47 -2.1
VLZ 2.62 137 eP 51 16.38 -2.2
TTA 2.72 270 iPd 51 19.20 -0.9
RDT 2.75 205 eP 51 20.69 0.2
KNIM 2.95 157 eP 51 20.91 -2.3
SEW 3.00 174 eP 51 22.50 -1.2
NNL 3.11 192 eP 51 25.74 0.5
GLB 3.35 117 eP 51 27.00 -1.6
CNPM 3.61 190 iP 51 30.94 -1.2
TGL 4.13 121 eP 51 37.02 -2.4

32 19.50 -0.4
32 29.70 -0.5
32 30.50 -2.4
34 21.10
32 38.10 0.3
32 37.60 -1.4
32 40.50 -1.0
34 35.30
32 41.60 -1.5
34 39.00
32 57.80 1.0
33 30.20 -1.7
34 56.50 0.8
37 20.60 -0.9
43 00.20
38 02.70 0.0
38 16.30 0.2
38 59.10 0.6
39 21.60 1.9
48 56.00 15.3X
48 59.50 8.4X
49 06.40 11.7X
49 12.50 13.7X
49 13.40 14.5X
49 13.60 14.1X
49 17.00 15.3X
49 18.00 16.2X
49 17.00 15.2X
S.D. = 1.3 on 23 of 32 obs.

& OCT 27, 1990 07h 50m 37.27s
63.079 N 150.054 W
DEPTH = 100.0km
CENTRAL ALASKA (1)
<AGS-P>.

HUR 0.22 118 eP 50 51.39 1.4
eS 51 02.27
RND 0.64 58 iP 50 54.12 -0.3
eS 51 06.91
CUT 0.68 188 iP 50 54.58 -0.2
eS 51 07.83
MCK 0.83 37 iP 50 55.79 -0.4
eS 51 09.39
SKT 1.30 212 iP 51 00.77 -0.7
eS 51 18.73
GHO 1.41 158 eP 51 02.83 -0.1
PWA 1.44 177 eP 51 03.22 0.1
SML 1.51 147 eP 51 03.51 -0.5
PLRM 1.55 163 eP 51 03.84 -0.7
PMR 1.55 163 iPd 51 03.90 -0.6
NEA 1.57 16 iP 51 03.80 -0.9
WRH 1.65 31 iP 51 04.73 -1.0
SUA 1.65 192 eP 51 05.63 -0.3
SCM 1.78 133 eP 51 06.82 -0.7
KNK 1.83 155 eP 51 07.63 -0.6
PMS 1.86 173 eP 51 08.08 -0.4
eS 51 31.31
CCB 1.86 31 iP 51 07.31 -1.2
HDA 1.92 45 iP 51 08.17 -1.1
DDM 2.01 67 eP 51 10.69 0.1
TOA 2.04 117 iPc 51 10.60 -0.4
CRP 2.07 209 eP 51 10.76 -0.7
FBA 2.08 28 iPd 51 10.40 -1.0
PAX 2.09 91 eP 51 11.27 -0.4
BGL 2.13 212 eP 51 11.83 -0.3
SDG 2.14 103 eP 51 11.79 -0.5
CKL 2.17 211 eP 51 12.73 0.0
GLM 2.25 30 iP 51 12.51 -1.2
KLU 2.50 128 iP 51 15.67 -1.5
GLI 2.61 146 eP 51 16.47 -2.1
VLZ 2.62 137 eP 51 16.38 -2.2
TTA 2.72 270 iPd 51 19.20 -0.9
RDT 2.75 205 eP 51 20.69 0.2
KNIM 2.95 157 eP 51 20.91 -2.3
SEW 3.00 174 eP 51 22.50 -1.2
NNL 3.11 192 eP 51 25.74 0.5
GLB 3.35 117 eP 51 27.00 -1.6
CNPM 3.61 190 iP 51 30.94 -1.2
TGL 4.13 121 eP 51 37.02 -2.4

32 19.50 -0.4
32 29.70 -0.5
32 30.50 -2.4
34 21.10
32 38.10 0.3
32 37.60 -1.4
32 40.50 -1.0
34 35.30
32 41.60 -1.5
34 39.00
32 57.80 1.0
33 30.20 -1.7
34 56.50 0.8
37 20.60 -0.9
43 00.20
38 02.70 0.0
38 16.30 0.2
38 59.10 0.6
39 21.60 1.9
48 56.00 15.3X
48 59.50 8.4X
49 06.40 11.7X
49 12.50 13.7X
49 13.40 14.5X
49 13.60 14.1X
49 17.00 15.3X
49 18.00 16.2X
49 17.00 15.2X
S.D. = 1.3 on 23 of 32 obs.

& OCT 27, 1990 07h 50m 37.27s
63.079 N 150.054 W
DEPTH = 100.0km
CENTRAL ALASKA (1)
<AGS-P>.

HUR 0.22 118 eP 50 51.39 1.4
eS 51 02.27
RND 0.64 58 iP 50 54.12 -0.3
eS 51 06.91
CUT 0.68 188 iP 50 54.58 -0.2
eS 51 07.83
MCK 0.83 37 iP 50 55.79 -0.4
eS 51 09.39
SKT 1.30 212 iP 51 00.77 -0.7
eS 51 18.73
GHO 1.41 158 eP 51 02.83 -0.1
PWA 1.44 177 eP 51 03.22 0.1
SML 1.51 147 eP 51 03.51 -0.5
PLRM 1.55 163 eP 51 03.84 -0.7
PMR 1.55 163 iPd 51 03.90 -0.6
NEA 1.57 16 iP 51 03.80 -0.9
WRH 1.65 31 iP 51 04.73 -1.0
SUA 1.65 192 eP 51 05.63 -0.3
SCM 1.78 133 eP 51 06.82 -0.7
KNK 1.83 155 eP 51 07.63 -0.6
PMS 1.86 173 eP 51 08.08 -0.4
eS 51 31.31
CCB 1.86 31 iP 51 07.31 -1.2
HDA 1.92 45 iP 51 08.17 -1.1
DDM 2.01 67 eP 51 10.69 0.1
TOA 2.04 117 iPc 51 10.60 -0.4
CRP 2.07 209 eP 51 10.76 -0.7
FBA 2.08 28 iPd 51 10.40 -1.0
PAX 2.09 91 eP 51 11.27 -0.4
BGL 2.13 212 eP 51 11.83 -0.3
SDG 2.14 103 eP 51 11.79 -0.5
CKL 2.17 211 eP 51 12.73 0.0
GLM 2.25 30 iP 51 12.51 -1.2
KLU 2.50 128 iP 51 15.67 -1.5
GLI 2.61 146 eP 51 16.47 -2.1
VLZ 2.62 137 eP 51 16.38 -2.2
TTA 2.72 270 iPd 51 19.20 -0.9
RDT 2.75 205 eP 51 20.69 0.2
KNIM 2.95 157 eP 51 20.91 -2.3
SEW 3.00 174 eP 51 22.50 -1.2
NNL 3.11 192 eP 51 25.74 0.5
GLB 3.35 117 eP 51 27.00 -1.6
CNPM 3.61 190 iP 51 30.94 -1.2
TGL 4.13 121 eP 51 37.02 -2.4

32 19.50 -0.4
32 29.70 -0.5
32 30.50 -2.4
34 21.10
32 38.10 0.3
32 37.60 -1.4
32 40.50 -1.0
34 35.30
32 41.60 -1.5
34 39.00
32 57.80 1.0
33 30.20 -1.7
34 56.50 0.8
37 20.60 -0.9
43 00.20
38 02.70 0.0
38 16.30 0.2
38 59.10 0.6
39 21.60 1.9
48 56.00 15.3X
48 59.50 8.4X
49 06.40 11.7X
49 12.50 13.7X
49 13.40 14.5X
49 13.60 14.1X
49 17.00 15.3X
49 18.00 16.2X
49 17.00 15.2X
S.D. = 1.3 on 23 of 32 obs.

& OCT 27, 1990 07h 50m 37.27s
63.079 N 150.054 W
DEPTH = 100.0km
CENTRAL ALASKA (1)
<AGS-P>.

HUR 0.22 118 eP 50 51.39 1.4
eS 51 02.27
RND 0.64 58 iP 50 54.12 -0.3
eS 51 06.91
CUT 0.68 188 iP 50 54.58 -0.2
eS 51 07.83
MCK 0.83 37 iP 50 55.79 -0.4
eS 51 09.39
SKT 1.30 212 iP 51 00.77 -0.7
eS 51 18.73
GHO 1.41 158 eP 51 02.83 -0.1
PWA 1.44 177 eP 51 03.22 0.1
SML 1.51 147 eP 51 03.51 -0.5
PLRM 1.55 163 eP 51 03.84 -0.7
PMR 1.55 163 iPd 51 03.90 -0.6
NEA 1.57 16 iP 51 03.80 -0.9
WRH 1.65 31 iP 51 04.73 -1.0
SUA 1.65 192 eP 51 05.63 -0.3
SCM 1.78 133 eP 51 06.82 -0.7
KNK 1.83 155 eP 51 07.63 -0.6
PMS 1.86 173 eP 51 08.08 -0.4
eS 51 31.31
CCB 1.86 31 iP 51 07.31 -1.2
HDA 1.92 45 iP 51 08.17 -1.1
DDM 2.01 67 eP 51 10.69 0.1
TOA 2.04 117 iPc 51 10.60 -0.4
CRP 2.07 209 eP 51 10.76 -0.7
FBA 2.08 28 iPd 51 10.40 -1.0
PAX 2.09 91 eP 51 11.27 -0.4
BGL 2.13 212 eP 51 11.83 -0.3
SDG 2.14 103 eP 51 11.79 -0.5
CKL 2.17 211 eP 51 12.73 0.0
GLM 2.25 30 iP 51 12.51 -1.2
KLU 2.50 128 iP 51 15.67 -1.5
GLI 2.61 146 eP 51 16.47 -2.1
VLZ 2.62 137 eP 51 16.38 -2.2
TTA 2.72 270 iPd 51 19.20 -0.9
RDT 2.75 205 eP 51 20.69 0.2
KNIM 2.95 157 eP 51 20.91 -2.3
SEW 3.00 174 eP 51 22.50 -1.2
NNL 3.11 192 eP 51 25.74 0.5
GLB 3.35 117 eP 51 27.00 -1.6
CNPM 3.61 190 iP 51 30.94 -1.2
TGL 4.13 121 eP 51 37.02 -2.4

32 19.50 -0.4
32 29.70 -0.5
32 30.50 -2.4
34 21.10
32 38.10 0.3
32 37.60 -1.4
32 40.50 -1.0
34 35.30
32 41.60 -1.5
34 39.00
32 57.80 1.0
33 30.20 -1.7
34 56.50 0.8
37 20.60 -0.9
43 00.20
38 02.70 0.0
38 16.30 0.2
38 59.10 0.6
39 21.60 1.9
48 56.00 15.3X
48 59.50 8.4X
49 06.40 11.7X
49 12.50 13.7X
49 13.40 14.5X
49 13.60 14.1X
49 17.00 15.3X
49 18.00 16.2X
49 17.00 15.2X
S.D. = 1.3 on 23 of 32 obs.

& OCT 27, 1990 07h 50m 37.27s
63.079 N 150.054 W
DEPTH = 100.0km
CENTRAL ALASKA (1)
<AGS-P>.

HUR 0.22 118 eP 50 51.39 1.4
eS 51 02.27
RND 0.64 58 iP 50 54.12 -0.3
eS 51 06.91
CUT 0.68 188 iP 50 54.58 -0.2
eS 51 07.83
MCK 0.83 37 iP 50 55.79 -0.4
eS 51 09.39
SKT 1.30 212 iP 51 00.77 -0.7
eS 51 18.73
GHO 1.41 158 eP 51 02.83 -0.1
PWA 1.44 177 eP 51 03.22 0.1
SML 1.51 147 eP 51 03.51 -0.5
PLRM 1.55 163 eP 51 03.84 -0.7
PMR 1.55 163 iPd 51 03.90 -0.6
NEA 1.57 16 iP 51 03.80 -0.9
WRH 1.65 31 iP 51 04.73 -1.0
SUA 1.65 192 eP 51 05.63 -0.3
SCM 1.78 133 eP 51 06.82 -0.7
KNK 1.83 155 eP 51 07.63 -0.6
PMS 1.86 173 eP 51 08.08 -0.4
eS 51 31.31
CCB 1.86 31 iP 51 07.31 -1.2
HDA 1.92 45 iP 51 08.17 -1.1
DDM 2.01 67 eP 51 10.69 0.1
TOA 2.04 117 iPc 51 10.60 -0.4
CRP 2.07 209 eP 51 10.76 -0.7
FBA 2.08 28 iPd 51 10.40 -1.0
PAX 2.09 91 eP 51 11.27 -0.4
BGL 2.13 212 eP 51 11.83 -0.3
SDG 2.14 103 eP 51 11.79 -0.5
CKL 2.17 211 eP 51 12.73 0.0
GLM 2.25 30 iP 51 12.51 -1.2
KLU 2.50 128 iP 51 15.67 -1.5
GLI 2.61 146 eP 51 16.47 -2.1
VLZ 2.62 137 eP 51 16.38 -2.2
TTA 2.72 270 iPd 51 19.20 -0.9
RDT 2.75 205 eP 51 20.69 0.2
KNIM 2.95 157 eP 51 20.91 -2.3
SEW 3.00 174 eP 51 22.50 -1.2
NNL 3.11 192 eP 51 25.74 0.5
GLB 3.35 117 eP 51 27.00 -1.6
CNPM 3.61 190 iP 51 30.94 -1.2
TGL 4.13 121 eP 51 37.02 -2.4

32 19.50 -0.4
32 29.70 -0.5
32 30.50 -2.4
34 21.10
32 38.10 0.3
32 37.60 -1.4
32 40.50 -1.0
34 35.30
32 41.60 -1.5
34 39.00
32 57.80 1.0
33 30.20 -1.7
34 56.50 0.8
37 20.60 -0.9
43 00.20
38 02.70 0.0
38 16.30 0.2
38 59.10 0.6
39 21.60 1.9
48 56.00 15.3X
48 59.50 8.4X
49 06.40 11.7X
49 12.50 13.7X
49 13.40 14.5X
49 13.60 14.1X
49 17.00 15.3X
49 18.00 16.2X
49 17.00 15.2X
S.D. = 1.3 on 23 of 32 obs.

& OCT 27, 1990 07h 50m 37.27s
63.079 N 150.054 W
DEPTH = 100.0km
CENTRAL ALASKA (1)
<AGS-P>.

HUR 0.22 118 eP 50 51.39 1.4
eS 51 02.27
RND 0.64 58 iP 50 54.12 -0.3
eS 51 06.91
CUT 0.68 188 iP 50 54.58 -0.2
eS 51 07.83
MCK 0.83 37 iP 50 55.79 -0.4
eS 51 09.39
SKT 1.30 212 iP 51 00.77 -0.7
eS 51 18.73
GHO 1.41 158 eP 51 02.83 -0.1
PWA 1.44 177 eP 51 03.22 0.1
SML 1.51 147 eP 51 03.51 -0.5
PLRM 1.55 163 eP 51 03.84 -0.7
PMR 1.55 163 iPd 51 03.90 -0.6
NEA 1.57 16 iP 51 03.80 -0.9
WRH 1.65 31 iP 51 04.73 -1.0
SUA 1.65 192 eP 51 05.63 -0.3
SCM 1.78 133 eP 51 06.82 -0.7
KNK 1.83 155 eP 51 07.63 -0.6
PMS 1.86 173 eP 51 08.08 -0.4
eS 51 31.31
CCB 1.86 31 iP 51 07.31 -1.2
HDA 1.92 45 iP 51 08.17 -1.1
DDM 2.01 67 eP 51 10.69 0.1
TOA 2.04 117 iPc 51 10.60 -0.4
CRP 2.07 209 eP 51 10.76 -0.7
FBA 2.08 28 iPd 51 10.40 -1.0
PAX 2.09 91 eP 51 11.27 -0.4
BGL 2.13 212 eP 51 11.83 -0.3
SDG 2.14 103 eP 51 11.79 -0.5
CKL 2.17 211 eP 51 12.73 0.0
GLM 2.25 30 iP 51 12.51 -1.2
KLU 2.50 128 iP 51 15.67 -1.5
GLI 2.61 146 eP 51 16.47 -2.1
VLZ 2.62 137 eP 51 16.38 -2.2
TTA 2.72 270 iPd 51 19.20 -0.9
RDT 2.75 205 eP 51 20.69 0.2
KNIM 2.95 157 eP 51 20.91 -2.3
SEW 3.00 174 eP 51 22.50 -1.2
NNL 3.11 192 eP 51 25.74

27d 10h

CAYA 0.44 121 P 12 28.20 -0.1
 OUR 0.51 199 eP 12 29.40 -0.2
 GGP 0.54 206 P+ 12 30.10 -0.1
 VC1 0.94 183 P 12 38.00 0.4
 S.D. = 0.4 on 5 of 5 obs.

? OCT 27, 1990 10h 38m 21.49 ± 1.23s
 39.111 N ± 8.2km 27.585 E ± 15.9km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.4 (ISK).

IEM 0.76 200 ePq 38 36.30 0.0
 EZN 1.21 307 ePn 38 44.00 0.0
 EDC 1.25 10 ePn 38 44.00 -0.8
 BNT 1.27 12 iPn 38 45.80 0.7
 S.D. = 1.1 on 4 of 4 obs.

? OCT 27, 1990 11h 26m 45.15 ± 7.20s
 0.152 N ± 20.8km 77.875 W ± 47.5km
 DEPTH = 10.0km (geophysicist)
 COLOMBIA-EQUADOR BORDER REGION (106)

CAYA 0.13 237 iP 26 48.60 -0.1
 COTA 0.50 291 iP 26 55.40 0.0
 OUR 0.73 244 eP 27 00.00 0.2
 YANA 0.75 249 eP 27 00.00 -0.1
 GGP 0.79 246 iP+ 27 00.80 -0.1
 VC1 0.95 214 iP+ 27 03.60 0.1
 S.D. = 0.2 on 6 of 6 obs.

% OCT 27, 1990 11h 29m 27.62 ± 1.54s
 40.237 N ± 17.1km 29.230 E ± 7.6km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.4 (ISK).

IZI 0.21 62 iPg 29 32.40 0.1
 KCT 0.67 271 iPg 29 40.30 -0.6
 HRT 0.67 30 ePg 29 40.80 -0.2
 BNT 1.01 277 iPg 29 47.80 1.1
 EDC 1.05 276 iPg 29 47.00 -0.4
 CTT 1.09 326 iPg 29 48.20 0.0
 S.D. = 0.8 on 6 of 6 obs.

OCT 27, 1990 12h 21m 41.40 ± 0.92s
 38.094 N ± 5.4km 22.053 E ± 5.9km
 DEPTH = 82.6 ± 17.9 km

GREECE (364)

EVR 0.84 347 eP 21 59.50 0.4
 ITM 0.92 186 eP 22 00.40 0.5
 AGG 0.95 13 iPd 21 59.62 -0.7
 VLS 1.16 275 eP 22 02.90 0.1
 ATH 1.32 95 eP 22 04.90 0.1
 NEO 1.52 37 eP 22 07.00 -0.5
 VLI 1.54 153 eP 22 07.40 -0.4
 IGT 1.97 317 ePd 22 13.05 -0.4
 IGT 1.97 317 ePd 22 13.24 -0.2
 LIT 2.03 9 ePd 22 14.00 -0.4
 KZN 2.22 354 eP 22 18.40 1.4
 FNA 2.74 349 ePc 22 24.53 0.5
 SOH 2.90 20 ePd 22 26.52 0.2
 KNT 3.13 12 ePd 22 29.64 0.2
 OHR 3.16 343 ePn 22 29.00 -1.0
 SRS 3.24 21 ePc 22 31.00 0.0
 VAY 3.25 7 ePn 22 32.00 1.0
 SKO 3.90 353 ePn 22 39.50 -0.7
 S.D. = 0.7 on 18 of 18 obs.

OCT 27, 1990 12h 22m 18.18 ± 1.81s
 45.380 N ± 6.5km 6.559 E ± 14.1km
 DEPTH = 10.0km (geophysicist)

FRANCE (538)

ML 2.5 (GEN).
 LPL 0.18 42 Pg 22 22.40 0.0
 BNI 0.34 166 P 22 24.80 -0.4
 LSD 0.43 79 P 22 26.61 -0.4
 RRL 0.49 161 P 22 27.94 -0.2
 RSP 0.54 115 P 22 29.27 0.1
 PZZ 0.96 156 P 22 36.76 0.3
 ORX 1.03 75 P 22 38.00 0.2
 STV 1.26 154 P 22 41.85 0.2
 ENR 1.31 152 P 22 42.59 0.2
 S.D. = 0.3 on 9 of 9 obs.

OCT 27, 1990 12h 47m 20.35 ± 0.12s
 18.321 N ± 2.5km 63.304 W ± 2.3km
 DEPTH = 63.2km (10 depth phases)
 5.2mb (59 obs.)

LEEWARD ISLANDS (92)
 Felt (IV) on St. Martin and (II)
 on Guadeloupe. Felt on St.
 Barthelemy. Also felt at
 Roosevelt Roads, Puerto Rico.

NEV 1.37 149 ePc 47 44.95 1.2
 BPA 1.87 132 eP 47 51.14 0.4
 LPR 2.44 270 P 47 58.90 0.2
 CPD 2.50 264 P 48 00.40 0.9
 SEG 2.57 138 ePc 48 00.91 0.5
 SJG 2.71 266 iP 48 03.30 0.8
 PAG 2.76 145 eP 48 03.90 0.7
 BTG 2.77 147 eP 48 04.02 0.8
 DOG 2.79 144 ePc 48 03.91 0.3
 SFG 2.88 135 ePc 48 05.52 0.7
 DEG 2.93 133 eP 48 05.31 -0.3
 MGG 3.05 141 ePc 48 08.06 0.8
 PORP 3.18 266 P 48 09.80 0.7
 BBL 3.29 148 eP 48 11.17 0.6
 MCP 3.62 272 P 48 14.80 -0.4
 FDF 4.12 150 eP 48 22.41 0.0
 0.2s 9.25nm

BIM 4.35 150 eP 48 25.48 -0.1
 MVM 4.40 148 eP 48 26.15 -0.1
 UPA 18.29 242 (P) 51 31.00 -0.4
 BLA 24.08 325 P 52 31.50 0.4
 1.2s 113.64nm

FVM 30.73 315 P 53 32.00 0.3
 NNA 32.95 205 eP 53 50.50 -0.7
 0.8s 11.19nm

TUL 33.60 308 iPc 53 56.80 0.1
 1.3s 55.80nm
 SIO 33.92 307 eP 54 00.00 0.4
 SIV 34.17 176 P 53 59.00 -2.7
 ZOBO 34.70 188 P 54 04.70 -2.2
 0.9s 26.60nm

LPB 34.95 188 P 54 07.00 -1.9
 SOB1 35.18 139 eP 54 11.00 0.5
 CNCB 35.21 188 P 54 10.00 -1.3
 0.9s 11.19nm

MEO 35.34 305 iPd 54 10.30 -1.4
 CCH 35.59 185 P 54 14.00 -0.2
 CAI 35.72 131 iPd 54 15.00 0.0
 SCH 36.53 357 eP 54 22.00 0.6
 PDCR 38.84 140 eP 54 39.80 -1.4
 0.9s 20.59nm

ALO 41.63 302 ePc 55 04.00 -0.3
 ANMO 41.63 302 P 55 05.20 0.9
 1.0s 27.50nm
 PPD 41.78 163 eP 55 05.20 -0.2
 GOL 42.03 309 P 55 07.80 0.2

1.0s 13.75nm 4.7mb
 VAO 44.06 158 eP 55 24.20 0.2
 FRB 45.53 357 eP 55 36.00 0.8
 0.5s 22.00nm 5.3mb
 BW06 45.97 312 P 55 39.40 0.2
 1.0s 33.33nm 5.2mb
 FFC 46.79 330 eP 55 44.50 -0.7
 0.5s 10.00nm 5.0mb
 DUG 47.68 308 P 55 53.20 0.6
 1.0s 17.50nm 5.0mb
 LRM 48.86 315 eP 56 02.00 0.2
 TPC 49.34 299 eP 56 06.00 0.5
 BAR 49.77 298 eP 56 09.00 0.3
 PLM 49.96 298 eP 56 11.00 0.6
 GSC 50.07 301 eP 56 11.00 0.0
 PEC 50.25 299 P 56 13.20 0.8
 0.5s 10.00nm 5.6km
 RVR 50.43 299 eP 56 14.00 0.3
 CLC 50.76 302 eP 56 16.00 -0.2
 SBB 50.85 300 eP 56 16.00 -1.0
 MWC 51.01 299 eP 56 18.00 -0.4
 ISA 51.45 301 eP 56 22.00 0.5
 ABL 52.01 300 P 56 26.00 0.0
 0.5s 18.75nm 5.1mb
 FRI 52.55 303 eP 56 29.50 -0.2
 NEW 52.61 317 P 56 29.20 -0.9
 1.0s 18.75nm 5.1mb
 SYP 52.62 300 eP 56 31.00 0.6
 BCH 52.73 301 P 56 31.80 0.6
 0.5s 3.00nm 4.6mb
 CMB 53.18 304 eP 56 34.50 0.1
 EPLA 53.49 53 eP 56 37.00 0.4
 LLA 53.51 302 eP 56 37.20 0.4
 EJIF 53.66 58 eP 56 39.00 1.2
 PRS 53.84 302 eP 56 38.70 -0.5
 ORV 54.18 306 eP 56 41.80 0.1
 MIN 54.34 307 eP 56 42.00 -1.0
 PNT 54.48 318 eP 56 48.00 4.3km
 0.5s 3.00nm 4.6mb
 LBFM 54.66 308 P 56 45.50 0.1
 0.6s 12.50nm 5.1mb
 GUD 55.01 53 eP 56 48.20 0.3
 TOL 55.02 54 iPd 56 48.50 0.6
 1.0s 50.00nm 5.5mb
 WDC 55.07 307 eP 56 45.80 -2.4
 EBAN 55.10 56 eP 56 49.00 0.5
 FMC 56.19 307 eP 56 56.80 0.6
 YKA 56.46 334 eP 56 56.50 -1.3
 0.6s 12.50nm 5.1mb
 LKO 56.50 91 Pc 56 57.18 -1.7
 0.7s 28.50nm 5.4mb
 ETOR 56.62 53 eP 57 00.40 1.0
 TIC 57.86 94 Pc 57 07.32 -1.0
 0.9s 44.00nm 5.6mb
 LIC 57.98 94 Pc 57 08.22 -0.9
 0.6s 20.50nm 5.4mb
 Z 22s 0.10um 3.9MsZ
 LPF 58.11 44 eP 57 09.00 -0.6
 0.9s 16.40nm 5.2mb
 KIC 58.21 94 Pc 57 09.98 -0.8
 0.6s 30.50nm 5.6mb
 EKA 58.22 36 P 57 11.00 0.7
 1.4s 54.60nm 5.5mb
 GRR 58.28 44 eP 57 10.40 -0.4
 0.8s 18.80nm 5.3mb
 MFF 58.53 46 eP 57 12.40 -0.2
 1.1s 51.30nm 5.6mb
 EPF 58.56 50 eP 57 13.10 0.2
 0.9s 39.30nm 5.5mb
 FLN 58.58 44 eP 57 12.40 -0.5
 0.9s 32.75nm 5.5mb
 LDF 58.79 44 eP 57 13.90 -0.5
 0.9s 22.95nm 5.3mb
 LFF 58.99 48 eP 57 15.20 -0.6
 0.9s 16.40nm 5.2mb
 LPO 59.28 48 eP 57 17.40 -0.5
 0.8s 16.10nm 5.2mb
 RJF 59.56 48 eP 57 19.10 -0.7
 0.8s 17.45nm 5.2mb
 LSF 59.65 47 eP 57 19.80 -0.6
 CAF 59.92 48 eP 57 21.80 -0.5
 TCF 60.12 47 eP 57 22.90 -0.7
 0.8s 22.15nm 5.3mb
 MAF 60.36 47 eP 57 24.60 -0.6
 0.7s 5.50nm 4.8mb

27d 14h

MBL 14.96 211 eP 52 28.20 -1.6
0.3s 10.00nm 4.5mb
eS 55 05.00
TRT 15.36 272 ePd 52 34.70 -0.3
ASPA 16.11 161 ePd 52 42.20 -2.4
0.4s 20.80nm 4.6mb
eS 55 32.00
QIS 16.37 139 eP 52 44.00 -3.8X
i 52 51.00
eS 55 41.00
WARB 17.69 184 eP 53 04.00 -0.3
0.4s 9.00nm 4.3mb
eS 56 12.00
NANU 18.53 219 eP 53 15.00 0.4
0.3s 7.00nm 4.3mb
e 53 19.50
eS 56 34.00
MEKA 20.23 206 eP 53 33.60 0.5
eS 57 10.00
OLP 23.64 142 iPd 54 09.60 2.6X
BAL 24.49 204 eP 54 21.50 6.2X
eS 58 58.00
KLB 24.97 201 eP 54 20.50 0.7
eS 59 03.00
MUN 25.90 204 eP 54 29.00 0.6
eS 59 23.00
NWA0 26.36 201 eP 54 33.50 0.8
eS 59 35.00
RMO 26.55 135 eP 54 34.00 -0.5
S.D. = 1.3 on 12 of 16 obs.

? OCT 27, 1990 15h 07m 55.03±0.85s
0.892 S ±13.7km 129.148 E ±27.1km
DEPTH = 33.0km (normal)
5.0mb (2 obs.) 3.7Msz (1 obs.)
HALMAHERA (267)

MTN 12.04 171 eP 10 45.50 -1.8
eS 13 00.00
KNA 14.77 181 eP 11 22.00 -1.4
TRT 17.79 247 ePc 12 08.90 7.0X
0.7s 64.70nm 4.9mb
WB5 19.55 165 eP 12 18.00 -5.2X
eS 15 53.00
QIS 22.06 153 iPc 12 49.20 0.4
ASPA 23.10 169 iPc 13 00.20 1.0
0.6s 42.00nm 5.1mb
Z 21s 0.30um 3.7Msz
eS 17 14.30
OLP 29.38 152 eP 13 56.00 -1.5
KLB 32.38 198 iPd 14 24.90 1.0
CHG 35.55 305 eP 14 52.80 1.3
KMI 36.36 317 eP 14 53.50 -5.0X
BWA 37.91 154 eP 15 12.60 1.4
CAN 38.92 154 eP 15 19.80 0.2
TOO 39.49 159 eP 15 25.80 1.5
BJI 42.43 345 eP 15 48.00 -0.3
LZH 43.69 330 eP 15 57.00 -1.8
Z 16s 0.24um 4.2MszX
i 16 21.00
MAIO 74.23 308 eP 19 26.00 -5.0X
S.D. = 1.5 on 12 of 16 obs.

? OCT 27, 1990 15h 09m 02.85±2.86s
29.273 N ±46.4km 83.614 E ±18.6km
DEPTH = 33.0km (normal)
NEPAL (310)

GKN 1.55 144 P 09 29.24 0.6
KKN 2.08 135 P 09 36.26 -0.1
DMN 2.12 141 P 09 36.24 -0.6
PKI 2.32 137 P 09 39.76 0.0
GUN 2.41 124 P 09 41.30 0.1
NDI 5.64 266 eP 10 26.50 0.0
S.D. = 0.5 on 6 of 6 obs.

OCT 27, 1990 15h 49m 14.02±0.39s
23.467 S ±3.9km 178.917 E ±5.3km
DEPTH = 560.9 ± 5.2 km
4.9mb (19 obs.)
SOUTH OF FIJI ISLANDS (171)

SVA 5.34 355 eP 50 47.70 -0.3
eS 52 04.50
VUN 5.45 355 eP 50 48.30 -0.7
SGE 5.92 351 eP 50 54.00 0.7
MBU 6.46 358 eP 50 58.50 0.3

DZM 11.59 274 iPd 51 52.90 4.0X
PUZ 14.57 182 eP 52 17.90 -0.6
WLZ 14.61 191 eP 52 22.20 3.3X
NOZ 15.12 183 P 52 24.80 0.9
WNG 17.34 189 eP 52 44.30 -1.2
0.2s 7.00nm 4.9mb
KIW 17.67 190 eP 52 48.70 0.0
MTW 17.87 188 eP 52 49.90 -0.7
WOW 18.05 198 eP 52 52.70 0.4
MRW 18.06 198 eP 52 52.90 0.5
BLW 18.08 188 P 52 52.20 -0.4
TCW 18.12 191 eP 52 52.90 0.0
THZ 18.92 194 eP 53 00.60 -0.1
KHZ 19.42 192 P 53 04.40 -0.8
0.2s 26.00nm 5.5mb
LTZ 20.04 194 P 53 10.10 -0.9
MMCZ 22.92 198 P 53 36.40 -0.8
MHZ 22.93 198 P 53 36.40 -0.9
BRS 23.91 255 iPc 53 47.50 1.3
COO 25.06 248 ePd 53 57.60 1.2
0.7s 38.00nm 5.1mb
RMO 27.48 257 eP 54 17.00 -0.6
0.8s 64.00nm 5.3mb
e 54 31.00
CNB 28.22 239 iPc 54 25.90 1.9
0.8s 181.00nm 5.5mb
CAN 28.51 239 eP 54 27.30 0.8
eScP 00 09.30
BWA 28.73 241 eP 54 27.30 -1.2
eScP 00 09.70
CMS 30.34 247 iPc 54 42.60 0.4
0.9s 90.00nm 5.4mb
eS 00 15.10
CTA 30.48 276 iPc 54 43.40 -0.1
1.0s 60.00nm 5.2mb
iS 59 05.60
iScP 00 16.80
OLP 31.52 257 eP 54 53.00 0.8
TOO 31.86 236 iPd 54 56.60 1.6
ADE 36.69 243 iPc 55 35.80 0.6
ASPA 41.13 260 iPc 56 11.00 -0.3
0.7s 31.40nm 5.0mb
iS 01 41.80
iScS 05 05.80
WB5 41.43 266 eP 56 11.00 -2.7X
WARB 47.26 255 eP 56 58.00 -0.9
MBL 54.38 260 eP 57 49.20 -1.6
SBA 54.75 183 iP 57 55.10 2.5
NANU 57.91 257 iPd 58 14.30 -0.0
0.4s 19.00nm 4.8mb
MAT 70.98 326 iPc 59 35.70 -1.2
PRS 81.93 45 eP 00 37.30 1.0
GCC 81.95 44 eP 00 37.10 0.7
PCC 81.99 43 eP 00 37.20 0.6
BCH 82.10 46 ePc 00 37.80 0.5
SAO 82.14 44 eP 00 37.50 0.1
PRI 82.27 45 eP 00 39.30 1.1
BRK 82.29 43 eP 00 38.90 0.8
BKS 82.31 43 eP 00 38.10 -0.1
0.8s 41.00nm 5.0mb
LLA 82.38 45 eP 00 39.30 0.7
ARN 82.44 44 eP 00 39.40 0.5
ABL 82.48 47 iPc 00 39.60 0.2
PLM 83.25 49 eP 00 43.00 -0.2
RVR 83.25 49 eP 00 42.00 -1.0
SBB 83.33 48 eP 00 43.00 -0.5
PEC 83.34 49 ePc 00 43.50 0.0
FRI 83.40 45 eP 00 44.00 0.4
ISA 83.44 47 eP 00 44.00 0.0
CMB 83.57 44 eP 00 44.50 -0.1
WDC 83.78 41 eP 00 46.20 0.8
ORV 83.78 42 eP 00 45.80 0.3
CLC 84.12 47 eP 00 47.00 -0.3
MIN 84.20 41 eP 00 47.80 0.1
GSC 84.37 48 eP 00 49.00 0.4
LBFM 84.63 41 iPc 00 50.20 0.3
TNP 85.64 45 iPc 00 54.40 -0.4
0.8s 9.80nm 4.6mb
GMW 87.96 35 iPc 01 05.30 0.0
LON 87.99 36 iPc 01 05.20 -0.3
TTA 88.37 11 eP 01 06.30 -0.7
RMW 88.43 36 iPc 01 07.50 -0.1
PMR 88.58 15 iPc 01 06.40 -1.4
0.9s 15.63nm 4.9mb
CHTO 88.60 291 iP 01 09.00 0.2
1.0s 3.00nm 4.1mb
PNT 90.71 35 ePc 01 18.00 0.1

0.8s 11.00nm 4.9mb
DAU 90.80 46 iP 01 19.50 0.5
ALO 91.48 52 eP 01 21.80 -0.3
1.0s 5.00nm 4.5mb
ANMO 91.48 52 iP 01 21.80 -0.3
0.8s 4.20nm 4.5mb
IMA 91.66 11 iP 01 21.00 -1.1
0.9s 4.69nm 4.5mb
FBA 91.76 14 e(P) 01 20.30 -2.1
0.9s 7.29nm 4.7mb
LZH 92.33 308 (P) 01 26.00 0.1
1.0s 18.00nm 5.1mb
SLR 123.42 212 ePKP 07 09.00 -0.7
SOD 132.82 346 ePKP 07 19.00 -7.2X
SUF 136.69 342 ePKP 07 33.30 -0.4
1.2s 21.40nm
NUR 138.89 341 ePKP 07 37.00 -0.8
0.4s 7.40nm
NUR 138.89 341 ePKP 07 19.00 -18.8X
NB2 141.50 350 PKP 07 36.20 -6.3X
0.8s 9.20nm
HFS 141.92 348 ePKP 07 36.90 -6.3X
0.7s 10.90nm
JVI 146.78 293 iPKPc 07 55.00 2.8X
ZNT 147.02 293 iPKPc 07 55.70 3.1X
RMN 147.51 290 iPKPc 07 56.80 3.3X
EKA 148.14 2 PKP 07 56.00 2.4
0.9s 14.60nm
KRA 148.79 334 ePKP 07 58.70 3.9X
KSP 149.52 338 iPKP 08 00.60 4.7X
0.7s 43.00nm
CLL 150.15 342 iPKPd 08 01.60 4.8X
0.9s 58.00nm
i 08 10.10
PRU 150.84 339 iPKPc 08 04.00 6.1X
MOX 151.12 343 ePKP 08 04.00 5.7X
VKA 151.65 335 iPKP 08 22.20 23.1X
0.7s 18.20nm
e(Sq) 18 24.00
KHC 151.90 339 PKP 08 06.50 7.0X
LIC 162.44 167 PKP 08 12.90 -0.1
KIC 162.63 168 PKP 08 13.00 -0.3
TIC 162.85 167 PKP 08 13.10 -0.4
S.D. = 0.9 on 80 of 97 obs.

* OCT 27, 1990 16h 15m 49.78±2.70s
1.031 S ±13.6km 121.393 E ±16.8km
DEPTH = 70.6 ± 25.3 km
4.4mb (1 obs.)
SULAWESI (268)

BKB2 4.50 267 iPd 17 07.00 10.0X
MKS 4.58 205 iPc 16 58.00 -0.2
IPM 21.10 285 ePd 20 31.90 1.3
WB5 22.63 147 eP 20 45.50 -0.3
ASPA 25.56 153 eP 21 13.70 -0.2
0.4s 5.50nm 4.4mb
MEKA 25.58 106 eP 21 13.80 -0.3
CHG 29.59 313 eP 21 51.00 0.5
BJI 41.15 354 eP 23 29.00 0.4
CAN 42.71 146 eP 23 42.60 1.0
e 24 10.80
GUN 44.61 313 P 23 57.14 -0.3
PKI 44.77 312 P 23 57.96 -0.8
KKN 44.98 312 P 24 00.24 -0.1
DMN 45.01 312 P 24 00.22 -0.4
GKN 45.57 312 P 24 04.30 -0.6
S.D. = 0.7 on 13 of 14 obs.

OCT 27, 1990 16h 31m 21.70±0.51s
6.750 N ±3.2km 71.949 W ±3.7km
DEPTH = 40.5 ± 4.7 km
5.0mb (55 obs.) 4.3Msz (8 obs.)
NORTHERN COLOMBIA (99)
Felt at Bucaramanga.

SDV 2.49 31 iPnc 32 02.80 1.9
iSn 32 38.10
TOV 3.70 35 iPnd 32 18.60 0.7
iSn 33 15.50
CEOS 4.24 57 iPd 32 25.50 -0.1
FISA 5.18 30 iPd 32 39.70 0.9
iS 33 16.00
PLAV 5.38 54 eP 32 42.00 0.1
eS 33 45.00
MORO 5.45 41 iPc 32 42.50 -0.2
GUAC 5.75 53 iPc 32 47.00 -0.1

OLLA	6.04	57	iPc	32	50.50	-0.5	MFF	72.64	43	eP	42	46.70	-0.4	SOD	87.12	23	iP	44	05.70	1.4
CAR	6.21	53	iPc	32	53.00	-0.5		0.8s	43.00nm			5.5mb		NUR	87.42	29	eP	44	06.80	0.9
			eS	34	44.00		FLN	72.76	41	eP	42	47.20	-0.6	SUF	87.76	27	eP	44	08.40	1.0
LLAV	6.29	54	iPc	32	54.00	-0.5		0.6s	28.85nm			5.4mb			0.6s	3.70nm			4.8mb	
UPA	7.83	287	ePc+	33	12.00	-4.1X	Z	20s	0.28um			4.5MsZ		BCAO	89.97	86	iPd	44	20.20	1.2
CUM	8.53	64	iP	33	23.00	-2.7X	LDF	72.96	41	eP	42	48.30	-0.7		1.3s	24.00nm			5.3mb	
			iS	34	57.60			0.7s	26.45nm			5.3mb				i	44	32.10		
CAYA	8.95	222	eP	33	31.50	-0.5	LFF	73.02	45	eP	42	48.60	-0.8	GKN	138.71	32	PKP	50	46.30	0.1
COTA	9.01	225	P	33	34.00	1.1		1.0s	30.00nm			5.2mb		KKN	139.22	32	PKP	50	47.12	-0.1
YANA	9.50	224	eP	33	39.00	-0.5	LPO	73.30	45	eP	42	50.30	-0.7	DMN	139.27	32	PKP	50	47.40	0.1
GGP	9.55	224	eP	33	39.00	-1.4		1.0s	38.00nm			5.3mb		GUN	139.43	31	PKP	50	47.70	0.0
VC1	9.76	221	eP	33	41.40	-1.8	INK	73.49	340	eP	42	51.50	-0.2	PKI	139.46	32	PKP	50	47.46	-0.3
DVD	10.54	280	P	33	49.50	-3.9X	RJF	73.61	45	eP	42	52.00	-0.8	KOD	145.18	61	ePKP	50	59.00	1.0
PORP	12.37	24	P	34	12.50	-5.6X		0.7s	8.80nm			4.8mb		OIS	146.49	243	ePKP	51	00.00	0.3
FDF	13.24	52	ePc	34	25.80	-3.9X	Z	20s	0.43um			4.7MsZ		ASPA	150.01	233	iPKPc	51	05.10	-0.1
	0.1s		1.90nm			4.9mb	LSF	73.74	44	eP	42	52.80	-0.7		0.6s	16.00nm				
			S	34	58.50			0.8s	20.15nm			5.1mb		WB5	151.32	240	ePKP	51	06.00	-1.2
BBL	13.47	49	eP	34	28.00	-4.7X	CAF	73.95	45	eP	42	54.40	-0.4			i	51	18.80		
DEG	14.28	47	eP	34	36.00	-7.3X		0.9s	14.75nm			5.0mb		CHG	153.06	19	ePKP	51	17.40	7.7X
NNA	19.24	195	eP	35	48.00	2.3	MBC	74.08	349	eP	42	55.50	0.5		S.D. = 1.0 on 111 of 122 obs.					
	0.7s		8.22nm			4.1mb		0.8s	15.00nm			5.0mb								
ARE	23.07	179	eP	36	23.00	-2.1	TCF	74.21	44	eP	42	55.60	-0.7							
ZOBO	23.18	171	iPc	36	27.00	0.5	MAF	74.45	44	eP	42	57.10	-0.6							
Z	16s		2.03um			4.7MsZ		0.7s	7.15nm			4.7mb								
			S	40	38.00		BGF	74.68	44	eP	42	58.30	-0.7							
			LR	45	50.00			0.7s	18.20nm			5.2mb								
LPB	23.44	171	P	36	29.80	0.9	AVF	75.05	43	eP	43	00.10	-1.0	KLM	3.06	58	eP	17	42.00	0.7
CNCB	23.73	171	P	36	33.80	1.9		0.8s	9.40nm			4.8mb		IPM	3.65	33	ePc	17	49.10	-0.1
			i	43	30.00		SSF	75.18	43	eP	43	00.80	-1.1		0.3s	38.60nm				
CCH	24.65	167	P	36	42.50	2.0		0.6s	4.05nm			4.6mb		KGM	4.31	83	ePd	17	58.80	0.7
SIV	25.03	155	P	36	43.20	-0.6	SMF	75.37	44	eP	43	02.10	-0.9	SNG	5.86	16	eP	18	10.60	-8.5X
JSC	28.71	344	P	37	15.00	-2.3		0.8s	16.10nm			5.0mb		BDT	15.65	360	eP	20	28.90	0.9
RSCP	31.32	338	P	37	39.00	-1.5	LOR	75.44	43	eP	43	02.30	-1.1	LOE	16.03	9	eP	20	33.00	0.2
PWLA	31.77	334	P	37	45.00	0.5		0.7s	15.45nm			5.1mb		CHG	17.21	360	eP	20	46.30	-1.1
BAO	32.52	133	eP	37	53.50	2.2	Z	20s	0.13um			4.2MsZ		KOD	23.12	293	eP	21	50.70	1.4
SOB1	34.77	117	eP	38	10.60	-0.1	DAG	75.48	11	eP	43	02.40	-0.6	GBA	24.52	300	P	22	02.60	0.3
PPD	35.03	145	eP	38	12.10	-0.7		0.7s	5.48nm			4.6mb		HYB	25.61	309	ePd	22	12.00	-0.5
			e	38	18.40		LBF	75.50	43	eP	43	02.60	-1.1			e	22	36.00		
FVM	35.33	334	P	38	15.00	-0.2		0.8s	7.40nm			4.7mb		NANU	28.82	147	eP	22	41.90	0.4
TUL	36.33	326	eP	38	23.60	-0.1	TOA	76.70	332	iPd	43	11.40	1.2	PKI	29.03	334	Pd	22	42.36	-1.4
	1.0s		13.30nm			4.8mb		0.8s	28.70nm			5.3mb			0.5s	13.00nm			4.9mb	
SIO	36.50	326	eP	38	25.20	0.1	LRG	76.91	47	eP	43	11.20	-0.4	GUN	29.13	336	Pd	22	43.74	-0.9
MEQ	37.15	322	iPd	38	29.70	-0.9		0.7s	6.60nm			4.8mb			0.5s	65.00nm			5.6mb	
PDCR	37.84	120	eP	38	35.00	-1.6	Z	20s	0.35um			4.7MsZ		DMN	29.19	334	Pd	22	43.88	-1.2
VAO	38.36	141	eP	38	38.80	-2.1	LMR	77.01	47	eP	43	11.80	-0.4		0.3s	8.00nm			4.9mb	
JFO	39.86	136	e(P)	38	53.30	-0.1		0.9s	9.85nm			4.8mb		KKN	29.28	334	Pd	22	44.58	-1.2
CBM	40.17	4	P	38	56.60	1.0	FRF	77.12	47	eP	43	12.40	-0.4		0.5s	36.00nm			5.4mb	
ALO	42.36	316	eP	39	14.00	0.0		0.8s	14.80nm			5.1mb		GKN	29.74	334	Pd	22	48.72	-1.1
	0.9s		6.30nm			4.3mb	HAU	77.19	42	eP	43	12.30	-0.9		0.3s	25.00nm			5.4mb	
ANMO	42.36	316	P	39	14.60	0.6		0.9s	9.85nm			4.8mb		MBL	30.35	139	eP	22	53.70	-1.3
	1.0s		5.63nm			4.3mb	Z	20s	0.17um			4.4MsZ		MEKA	33.69	147	eP	23	24.30	0.2
GOL	44.45	323	P	39	31.00	-0.1	LPL	77.29	45	eP	43	14.30	0.3		0.3s	8.00nm			5.0mb	
	0.7s		11.83nm			4.8mb		0.7s	12.70nm			5.1mb		NDI	34.13	324	iPd	23	26.80	-1.0
SCH	48.11	4	eP	40	00.00	0.6	LPG	77.30	45	eP	43	14.50	0.3	MTN	34.89	115	iPd	23	32.90	-1.6
PLM	49.26	309	eP	40	09.00	0.2		0.7s	7.70nm			4.8mb			0.3s	19.00nm			5.4mb	
GSC	49.98	311	eP	40	15.00	0.8	8SF	77.47	43	eP	43	13.80	-1.0	COOL	38.46	149	eP	24	04.80	0.4
SBB	50.51	310	eP	40	20.00	1.8		0.7s	12.15nm			5.0mb		WB5	40.65	123	eP	24	21.50	-1.0
CLC	50.78	311	eP	40	24.00	3.8X	CDF	77.83	42	eP	43	16.00	-0.8			e	26	24.00		
ISA	51.38	311	eP	40	43.00	18.2X		0.7s	9.90nm			5.0mb		BJI	41.41	20	eP	24	30.00	1.6
TNP	51.44	314	P	40	25.00	-0.4	FBA	77.92	335	iPc	43	17.50	0.7		1.0s	7.00nm			4.3mb	
	0.8s		4.51nm			4.5mb		0.4s	2.60nm			4.6mb		QUE	41.73	316	eP	24	31.00	-0.4
FFC	53.57	339	eP	40	40.00	-0.7	PMR	78.00	332	iPc	43	18.00	0.7	ASPA	42.12	129	iPc	24	33.30	-1.3
	0.8s		16.00nm			5.1mb		0.8s	11.70nm			5.0mb			0.7s	13.50nm			4.8mb	
NEW	56.31	325	P	41	00.00	-0.9	ABH	78.10	41	eP	43	19.14	1.0	MAIO	50.35	318	eP	25	38.00	-1.3
	0.8s		8.33nm			4.8mb	IMA	80.51	336	i										

27d 19h

0.7s 3.30nm 4.7mb
 LOR 92.43 317 eP 29 51.30 0.6
 0.8s 9.40nm 5.1mb
 SMF 92.50 317 eP 29 51.50 0.5
 0.7s 5.50nm 4.9mb
 S.D. = 1.0 on 41 of 43 obs.

* OCT 27, 1990 19h 52m 42.92±2.56s
 17.292 N ±27.8km 62.313 W ± 9.1km
 DEPTH = 33.0km (normal)

LEEWARD ISLANDS (92)
 ML 3.0 (FDF).

NEV 0.29 238 ePd 52 50.57 0.0
 S 52 53.10
 BPA 0.50 119 eP 52 53.30 -0.3
 SEG 1.17 139 eP 53 03.00 -0.1
 S 53 15.60
 PAG 1.39 154 eP 53 06.00 -0.3
 S 53 21.80
 DOG 1.42 152 eP 53 06.31 -0.4
 S 53 22.20
 DEG 1.55 129 ePd 53 08.97 0.5
 S 53 27.30
 BBL 1.93 155 eP 53 14.70 0.6
 S.D. = 0.5 on 7 of 7 obs.

OCT 27, 1990 20h 51m 12.32±0.91s
 43.556 N ± 5.6km 7.797 E ± 4.7km
 DEPTH = 10.0km (geophysicist)

NEAR SOUTH COAST OF FRANCE (379)
 ML 2.6 (LDG), 2.5 (GEN).

IMI 0.36 11 P 51 19.91 0.2
 S 51 24.52
 REVF 0.36 301 Pg 51 20.43 0.6
 Sg 51 26.18
 SBF 0.40 320 Pg 51 20.80 0.2
 Sg 51 26.20
 SAOF 0.46 338 Pg 51 21.55 -0.2
 Sg 51 27.61
 AURF 0.47 314 Pg 51 22.02 0.0
 AUTN 0.51 329 Pg 51 22.56 -0.2
 MVIF 0.58 306 Pg 51 24.28 0.1
 Sg 51 32.10
 TOUF 0.61 319 Pg 51 24.45 -0.2
 Sg 51 32.66
 CALM 0.69 287 Pg 51 26.49 0.5
 Sg 51 36.00
 FIN 0.72 24 P 51 26.36 -0.1
 S 51 35.08
 ENR 0.72 338 P 51 26.26 -0.4
 S 51 35.18
 ROB 0.74 4 P 51 26.78 -0.1
 S 51 36.00
 STV 0.77 334 P 51 27.08 -0.3
 S 51 36.41
 FRF 0.84 271 Pg 51 28.40 -0.1
 Sg 51 38.80
 LMR 0.96 257 Pg 51 30.20 -0.4
 Sg 51 42.00
 LRG 1.05 265 Pg 51 32.10 0.0
 Sg 51 44.60
 PZZ 1.07 332 P 51 32.52 -0.1
 S 51 45.74
 PCP 1.12 28 P 51 33.85 0.4
 S 51 47.59
 S.D. = 0.3 on 18 of 18 obs.

? OCT 27, 1990 20h 58m 37.51±4.95s
 35.146 S ±25.6km 179.089 W ±56.1km
 DEPTH = 272.4 ± 17.8 km
 4.3mb (1 obs.)
 EAST OF NORTH ISLAND, N.Z. (688)

HBZ 3.23 220 eP 59 32.10 -2.1
 PUZ 3.62 215 P 59 38.40 -0.1
 eS 00 30.10
 NOZ 4.16 213 eP 59 46.00 1.4
 TAZ 4.69 228 P 59 51.50 0.7
 WLZ 5.06 236 P 59 54.70 -0.6
 WHH 5.14 222 eP 59 55.80 -0.5
 KETZ 5.76 225 P 00 04.90 1.0
 NGZ 5.85 225 eP 00 05.70 0.8
 DRZ 5.93 224 eP 00 07.90 1.7
 PGZ 6.58 212 P 00 15.50 1.7
 MNG 6.95 217 eP 00 17.70 -0.7

MTW 7.36 214 eP 00 21.90 -1.6
 KIW 7.42 218 eP 00 22.70 -1.5
 BLW 7.54 213 eP 00 27.00 1.2
 MOW 7.68 214 eP 00 28.40 0.8
 WDW 7.68 216 eP 00 26.40 -1.2
 MRW 7.80 217 eP 00 29.20 0.3
 eS 02 02.20
 WEL 7.81 216 eP 00 30.00 0.9
 S 02 03.00

TCW 8.00 219 eP 00 30.20 -1.3
 THZ 9.11 221 eP 00 45.50 -0.1
 KHZ 9.26 216 eP 00 47.60 0.2
 LTZ 10.16 219 eP 00 57.70 -1.1
 eS 02 55.70

DZM 18.17 312 iPd 02 20.50 -12.1X
 ASPA 42.17 273 eP 06 09.20 3.8X
 0.3s 5.10nm 4.3mb

WB5 43.60 278 eP 06 17.00 0.2
 KEV 142.51 345 ePKP 17 50.00 11.7X
 SOD 144.50 343 ePKP 17 51.00 9.2X
 BCAO 145.36 212 iPKPc 17 58.80 13.9X
 0.4s 4.00nm

SUF 148.23 338 ePKP 17 57.40 9.4X
 0.4s 6.00nm
 NUR 150.36 336 ePKP 18 03.50 12.2X
 0.5s 10.90nm

NB2 153.26 349 PKP 18 10.30 14.7X
 0.6s 3.40nm
 HFS 153.65 346 ePKP 18 10.40 14.3X
 0.7s 6.80nm

S.D. = 1.2 on 23 of 32 obs.

OCT 27, 1990 23h 59m 26.78±0.65s
 41.418 N ± 6.9km 4.178 E ± 5.1km
 DEPTH = 33.0km (normal)

WESTERN MEDITERRANEAN SEA (387)
 ML 3.0 (LDG).

ETER 1.32 312 eP 59 49.70 0.6
 eS 00 05.00
 ESEL 1.92 211 eP 59 58.00 0.3
 eS 00 18.00

LMR 2.58 41 Pn 00 07.40 0.3
 Sn 00 34.60
 LRG 2.60 38 Pn 00 08.00 0.6
 Sn 00 35.60

FRF 2.81 40 Pn 00 10.60 0.2
 Sn 00 40.70
 EROO 2.91 259 eP 00 10.80 -1.0
 EPF 3.27 301 Pn 00 18.60 1.6
 Sn 00 55.30

SBF 3.43 43 Pn 00 19.00 -0.3
 Sn 00 54.80
 PGF 3.77 71 Pn 00 23.60 -0.5
 Sn 01 01.50

CAF 3.83 337 Pn 00 24.60 -0.3
 Sn 01 05.60
 LPO 3.93 327 Pn 00 25.90 -0.4
 Sn 01 07.40

LFF 4.33 326 Pn 00 31.60 -0.3
 Sn 01 16.80
 RJF 4.34 334 Pn 00 31.20 -0.9
 Sn 01 16.80

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

? OCT 28, 1990 01h 18m 35.63±2.29s
 14.254 N ±20.5km 90.038 W ±38.5km
 DEPTH = 184.6 ± 32.9 km
 4.5mb (2 obs.)

GUATEMALA (70)

TPX 2.25 287 (P) 19 16.00 -0.1
 iS 19 25.00

PWLA 20.71 5 P 23 03.50 0.6
 PRM 20.93 18 P 23 05.60 0.6
 JSC 21.46 20 P 23 10.00 -0.2
 RSCP 21.63 10 P 23 12.00 0.0

0.7s 27.68nm 4.9mb
 LHS 21.80 21 P 23 13.60 0.1
 TKL 22.04 14 P 23 16.00 0.1
 TUL 22.18 348 eP 23 17.50 0.3

0.8s 7.10nm 4.2mb
 SIV 41.50 135 P 25 43.20 -23.2X
 SCH 44.35 19 eP 26 27.00 -1.9
 KIC 83.92 85 P 30 47.10 0.5

S.D. = 0.9 on 10 of 11 obs.

OCT 28, 1990 01h 34m 45.06±0.78s
 7.260 N ± 8.8km 72.853 W ± 6.6km
 DEPTH = 184.3 ± 7.9 km
 4.5mb (9 obs.)

NORTHERN COLOMBIA (99)

SDV 2.73 54 ePn 35 32.30 1.0
 iSn 36 09.80
 TOV 3.93 50 iPd 35 47.20 1.1
 CEOS 4.81 68 iPd 35 56.50 -0.9
 i(S) 36 36.00

FISA 5.28 41 eP 36 04.00 0.4
 MORO 5.74 51 iP 36 10.00 0.4
 eS 37 20.00

GUAC 6.24 62 eP 36 16.00 -0.2
 OLLA 6.58 65 iPc 36 19.50 -1.1
 iS 37 38.00

CAR 6.68 61 eP 36 21.20 -0.8
 LLAV 6.77 61 iPc 36 23.00 -0.2
 eS 37 41.00

UPA 6.83 285 eP 36 23.50 -0.3
 ZOBO 23.84 169 P 39 37.80 -5.7X
 Z 20s 0.12um 3.4Msz

i 40 09.00
 LR 56 04.00
 LPB 24.10 169 eP 39 46.00 0.2
 SIV 25.88 153 P 40 04.60 2.9X

RSCP 30.52 339 iP 40 44.00 0.9
 0.9s 27.88nm 5.0mb
 OLY 32.89 331 eP 41 04.00 0.3

FVM 34.48 335 iP 41 17.90 0.6
 1.0s 25.00nm 4.8mb
 TUL 35.41 327 eP 41 24.70 -0.4

0.7s 6.90nm 4.4mb
 GOL 43.51 323 iP 42 32.00 -0.2
 0.9s 29.55nm 4.8mb

DAU 47.57 320 eP 43 04.50 0.2
 0.8s 1.80nm 3.6mb
 BW06 47.89 324 eP 43 06.00 -0.6

1.0s 3.00nm 3.8mb
 DUG 40.46 319 eP 43 10.00 -1.0
 TNP 50.45 314 eP 43 26.10 -0.2

0.8s 1.76nm 3.7mb
 PNT 57.34 326 eP 44 16.00 0.0
 YKA 62.95 340 eP 44 52.90 -0.9

0.5s 7.70nm 4.8mb
 INK 72.71 340 eP 45 54.00 -0.2
 MBC 73.42 350 eP 45 59.00 0.8

0.6s 6.00nm 4.5mb
 ASPA 149.58 235 ePKP 54 11.10 1.1
 0.8s 7.20nm

WB5 150.78 242 ePKP 54 14.20 2.4X
 S.D. = 0.7 on 25 of 28 obs.

* OCT 28, 1990 02h 27m 44.33±0.90s
 4.816 S ±11.8km 76.898 W ±25.8km
 DEPTH = 33.0km (normal)

4.8mb (1 obs.)

NORTHERN PERU (111)

TUNG 3.71 335 eP 28 40.30 -0.8
 VC1 4.41 340 P 28 50.60 -0.7
 GGP 4.91 340 eP 28 58.10 -0.3

S 29 36.00
 YANA 4.96 340 eP 28 58.30 -0.7
 S 29 34.20

CAYA 4.98 347 eP 28 59.00 -0.3
 COTA 5.31 344 eP 29 06.80 2.8
 NNA 7.13 180 eP 29 29.30 0.3

0.9s 10.08nm 4.8mb
 eS 30 48.50
 SIV 19.10 127 P 32 07.00 -0.3

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

? OCT 28, 1990 02h 39m 27.42±0.94s
 45.781 N ±16.2km 15.795 E ±10.0km
 DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)
 ML 2.7 (ZAG).

ZAG 0.14 75 ePg 39 30.70 0.1
 iSg 39 35.00
 PTJ 0.16 44 iPg 39 31.20 -0.1
 iSg 39 36.70

VBY 0.47 234 e(Pg) 39 36.90 0.0
 eSg 39 39.90

VOY 1.35 281 e(P) 39 52.40 0.0
eS 40 13.40
S.D. = 0.1 on 4 of 4 obs.

* OCT 28, 1990 05h 09m 19.18 ± 0.86s
35.855 N ± 12.7km 26.155 E ± 7.8km
DEPTH = 33.0km (normal)

CRETE (370)
MD 3.2 (ATH).

NPS 0.74 217 ePb 09 33.50 0.3
KAP 0.88 110 iPnd 09 36.20 1.0
eSn 09 49.00
APE 1.31 338 ePb 09 43.20 1.8
ARG 1.64 77 iPnc 09 46.30 0.3
eSn 10 07.50
VAM 1.65 255 ePn 09 46.50 0.2
VLI 2.74 289 ePn 10 00.00 -1.7
ELL 3.16 73 ePn 10 06.00 -1.9
DSI 8.79 116 eP 11 19.50 -7.4X
PRNI 9.23 124 eP 11 26.00 -7.0X
S.D. = 1.7 on 7 of 9 obs.

OCT 28, 1990 05h 52m 34.08 ± 1.01s
43.540 N ± 6.2km 7.805 E ± 5.2km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 2.3 (GEN), 2.0 (LDG).

IMI 0.37 9 P 52 41.97 0.2
S 52 46.28
REVF 0.37 302 Pg 52 42.83 1.0
Sg 52 48.12
SBF 0.42 320 Pg 52 42.80 0.1
Sg 52 48.00
SAOF 0.48 338 Pg 52 43.61 -0.3
Sg 52 49.79
AURF 0.49 315 Pg 52 44.15 0.1
Sg 52 50.72
AUTN 0.53 329 Pg 52 44.87 0.0
Sg 52 51.35
MVIF 0.59 307 Pg 52 46.28 0.1
Sg 52 53.97
TOUF 0.62 320 Pg 52 46.38 -0.3
FIN 0.73 23 P 52 48.23 -0.2
S 52 56.94
ENR 0.74 338 P 52 48.38 -0.3
S 52 56.99
ROB 0.76 4 P 52 48.53 -0.4
S 52 57.20
STV 0.78 334 P 52 49.05 -0.4
S 52 57.92
FRF 0.84 272 Pg 52 50.30 0.0
Sg 53 00.00
LMR 0.97 258 Pg 52 52.00 -0.4
Sg 53 04.00
LRG 1.05 266 Pg 52 54.10 0.2
Sg 53 07.40
PZZ 1.09 332 P 52 54.48 -0.2
S 53 07.61
PCP 1.13 28 P 52 56.12 0.8
S.D. = 0.4 on 17 of 17 obs.

OCT 28, 1990 06h 06m 38.32 ± 0.55s
39.537 N ± 6.7km 25.159 E ± 4.6km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 3.2 (ATH).

PRK 0.91 108 ePn 06 55.50 -0.2
EZN 0.94 72 ePg 06 56.50 0.2
eSg 07 10.00
OUR 1.21 312 eP 07 00.92 0.2
PLG 1.56 303 ePn 07 06.00 -0.2
RDO 1.63 10 ePn 07 07.20 0.0
ATH 1.93 216 ePn 07 11.50 0.1
SRS 1.98 323 eP 06 58.52 -13.7X
e 07 43.28
GRG 2.54 305 eP 07 20.04 -0.3
VAY 2.66 313 ePn 07 30.00 8.0X
EVR 2.68 258 ePn 07 22.50 0.2
S.D. = 0.2 on 8 of 10 obs.

% OCT 28, 1990 06h 08m 28.54 ± 1.67s
15.428 N ± 7.4km 60.743 W ± 23.1km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)

ML 2.8 (FDF).

BBL 0.71 278 eP 08 42.70 0.5
FDF 0.79 210 iPc 08 43.58 0.2
0.1s 3.30nm
S 08 58.00
MVM 0.88 190 iPc 08 44.71 0.1
S 09 01.10
DEG 0.93 341 eP 08 46.20 0.9
S 09 02.30
BIM 0.96 199 iPc 08 45.23 -0.5
S 09 02.30
SEG 1.22 323 eP 08 48.00 -1.3
S 09 05.60
S.D. = 1.0 on 6 of 6 obs.

OCT 28, 1990 06h 53m 01.29 ± 0.12s
49.682 N ± 3.1km 155.885 E ± 2.5km
DEPTH = 47.6km (15 depth phases)
5.5mb (85 obs.) 4.8msz (12 obs.)

KURIL ISLANDS (221)
Felt (III) at Severo-Kurilsk.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 19S, 33C
Centroid Location:
Origin Time 06:53: 4.4 0.4
Lat 49.46N 0.04 Lon 156.51E 0.05
Dep 42.7 3.1 Half-duration 1.7
Moment Tensor: Scale 10**17 Nm
Mrr= 1.16 0.04 Mtt=-0.25 0.05
Mff=-0.92 0.05 Mrt= 0.15 0.08
Mrf= 0.10 0.09 Mtf=-0.76 0.05
Principal Axes:
T Vol= 1.18 Plg=84 Azm=352
N 0.25 4 213
P -1.42 4 123
Best Double Couple: Mo=1.3*10**17
NP1: Strike=209 Dip=41 Slip= 84
NP2: 37 49 96

KUSJ 10.14 234 P 55 22.60 -4.4X
S 57 08.80
ASAJ 10.63 243 P 55 36.20 2.5
HOJ 11.39 235 P 55 40.40 -3.6X
S 57 43.10
SMY 11.82 68 iP 55 46.60 -3.2X
0.8s 367.82nm 6.5mb X
MRRJ 12.58 240 eP 55 57.90 -2.0X
S 58 13.70
OFUJ 14.66 229 eP 56 21.00 -6.2X
NIJ 17.41 231 iPd 56 58.20 -4.0X
KAKJ 17.66 226 P 57 00.00 -5.3X
CHJJ 18.35 228 P 57 10.60 -3.2X
MAT 18.35 231 eP 57 12.00 -1.8
eS 00 26.00
MTMJ 18.52 232 P 57 13.50 -2.5X
IIDJ 19.34 230 P 57 23.90 -1.6
YONJ 21.88 237 P 57 51.70 0.1
SHNJ 23.96 239 eP 58 12.50 0.6
SHNJ 23.96 239 P 58 13.60 1.7
ANM 25.24 39 ePc 58 25.30 1.4
KUMJ 25.31 237 P 58 25.60 0.7
KAGJ 26.32 235 eP 58 34.80 0.5
TTA 29.01 45 iPc 58 58.70 0.3
0.7s 46.80nm 5.2mb
SVV 29.11 48 iPc 59 00.00 0.7
0.8s 22.80nm 4.9mb
BJI 29.45 266 eP 59 01.00 -1.4
1.0s 12.00nm 4.5mb
Z 22s 1.78um 4.6msz
N 16s 0.72um
PcP 02 06.00
eS 03 44.00
PcS 05 49.00
IMA 30.35 38 iPc 59 10.40 0.0
0.8s 42.00nm 5.2mb
BRW 30.51 28 iPc 59 11.90 0.4
SSE 31.91 247 Pd 59 24.50 0.3
1.0s 70.00nm 5.4mb
Z 20s 0.90um 4.4msz
N 17s 0.60um
E 16s 0.50um
eS 59 47.00
ePP 00 36.00
PcP 02 13.70
S 04 35.00

PMR 32.22 47 iPc 06 43.00
0.7s 25.90nm 5.2mb
FBA 32.72 41 iPc 59 31.40 0.4
0.7s 194.40nm 6.1mb
TOA 33.58 46 iPc 59 39.30 0.7
0.8s 108.40nm 5.8mb
GUMO 37.11 198 eP 00 13.00 4.1X
INK 38.18 35 eP 00 18.50 1.2
LZH 39.69 270 eP 00 30.50 0.0
1.6s 44.00nm 5.0mb
Z 25s 2.23um 4.9msz
N 14s 0.53um
E 17s 0.91um
pP 00 44.00 51km
eP 00 47.00
ePP 02 08.00
PcS 06 26.50
eS 06 37.00
SS 09 30.00
MBC 41.20 21 ePc 00 43.00 0.8
0.7s 25.00nm 5.1mb
BAG 43.76 233 eP 01 03.20 -0.7
YKA 47.47 39 eP 01 33.00 0.3
0.8s 32.80nm 5.4mb
KMI 47.61 259 Pc+ 01 34.00 -0.6
1.8s 80.00nm 5.4mb
Z 20s 0.70um 4.6msz
pP 01 50.00 62kmX
eS 07 14.00
DAV 49.48 221 eP 01 48.60 -0.2
BMW 51.64 60 eP 02 04.00 -0.2
RMW 51.87 59 iPc 02 19.60 12.8X
PNT 52.00 56 eP 02 07.00 -0.7
0.9s 35.00nm 5.4mb
EDM 52.97 49 iPc 02 14.60 -0.3
pP 02 27.50 46km
DAG 53.78 358 iPd 02 18.00 -2.4
0.8s 25.37nm 5.3mb
i 03 25.00 313kmX
LOE 53.90 253 eP 02 21.50 -0.5
NEW 53.96 56 iPc 02 21.50 -0.7
1.1s 33.95nm 5.3mb
CHG 54.59 257 ePc 02 27.50 0.3
0.9s 147.06nm 6.0mb
eS 10 04.00
KEV 55.19 341 eP 02 37.00 6.1X
LBFM 55.49 65 iPc 02 34.30 0.6
iP 02 48.10 50km
WDC 55.59 66 eP 02 34.60 0.5
BDT 55.73 256 eP 02 36.00 0.7
1.0s 55.90nm 5.5mb
NST 56.20 253 eP 02 39.00 0.3
MIN 56.29 66 eP 02 39.20 -0.2
GUN 56.59 275 P 02 40.54 -1.4
0.5s 37.00nm 5.7mb
ORV 56.85 66 eP 02 42.80 -0.4
KKK 57.06 275 P 02 43.86 -1.3
PKI 57.13 275 P 02 44.08 -1.6
SOD 57.18 339 iP 02 43.50 -1.6
DMN 57.30 275 P 02 45.22 -1.6
0.7s 99.00nm 6.0mb
FFC 57.31 42 eP 02 46.00 -0.2
1.3s 106.00nm 5.7mb
GKN 57.33 276 P 02 45.96 -1.0
0.5s 40.00nm 5.8mb
BRK 57.48 68 e(P) 02 47.50 -0.1
LRM 57.97 56 iPc 02 51.40 0.1
e 03 04.50 47km
MHC 58.20 68 eP 02 52.50 -0.3
ARN 58.26 68 eP 02 52.90 -0.2
CM8 58.50 67 eP 02 54.50 -0.3
SAO 58.69 69 eP 02 55.80 -0.3
HPI 58.99 58 iPc 02 59.10 0.6
PRS 59.02 69 eP 02 58.50 0.1
LLA 59.09 69 eP 02 59.00 0.1
KVN 59.19 65 eP 03 00.10 0.3
eP 03 13.80 49km
PMG 59.33 190 iPc 03 00.00 -0.6
0.6s 53.33nm 5.8mb
FRI 59.59 68 eP 03 02.10 -0.2
PTI 59.94 58 iP 03 06.00 1.1
iP 03 19.60 49km
TNP 60.35 65 iPc 03 07.60 -0.2
0.8s 18.14nm 5.3mb
iP 03 21.70 51km

28d 07h

BCH	60.56	69	ePc	03	09.00	-0.1	Z	23s	0.40um	4.7MsZ	LOR	80.44	341	iPc	05	09.10	0.1		
SUF	61.09	336	iP	03	09.00	-2.3	ELC	76.08	48	iPc	04	45.00	-0.3	Z	20s	0.85um	5.1MsZ		
	0.6s	7.60nm				5.0mb	RMQ	76.09	187	iPc	04	44.20	-1.1						
ISA	61.22	68	eP	03	13.00	-0.5		0.9s	87.00nm	5.7mb	MDI	80.48	337	Pc	05	09.00	-0.2		
DUG	61.48	61	iPc	03	15.40	0.0	SRO	76.20	332	eP	04	46.80	1.0	VAY	80.53	326	iP		
NDI	61.63	282	eP	03	15.00	-1.3	CMP	76.21	327	ePd	04	49.00	3.0X		0.8s	76.00nm	5.7mb		
CLC	61.64	67	eP	03	16.00	-0.4	ZST	76.22	333	iP	04	46.80	0.9	KNT	80.55	326	ePc		
FRB	61.66	21	eP	03	14.00	-2.0	BUD	76.28	331	eP	04	54.80	8.6X	GRC	80.58	342	P		
	0.8s	108.00nm				6.0mb	KHC	76.37	336	P	04	47.00	0.2	NA2	80.58	40	iP		
DAU	62.21	60	iP	03	20.70	0.2	OLY	76.38	51	iPc	04	46.30	-0.7						
			eP	03	34.10	48km	VKA	76.39	334	ePc	04	47.00	0.1	VAI	80.63	337	P		
SBB	62.27	68	eP	03	20.00	-0.6					04	53.10	20kmX	LPF	80.65	345	iPc		
PAS	62.42	69	eP	03	21.00	-0.5	GRF	76.47	337	eP	04	47.60	0.3		0.9s	119.55nm	5.8mb		
MWC	62.44	69	eP	03	22.00	0.1		0.7s	37.00nm	5.5mb	MMK	80.66	338	iPd	05	11.70	1.2		
GSC	62.46	67	eP	03	22.00	0.1		Z	20s	0.50um	4.8MsZ	SOH	80.69	325	ePc	05	09.70	-0.7	
SNG	62.51	247	eP	03	24.00	1.7	CBM	76.50	29	iPc	04	47.30	-0.2	LBF	80.69	341	iPc		
RVR	63.01	69	eP	03	24.00	-1.4	WVLY	76.58	38	iPc	04	47.60	-0.5		0.8s	20.80nm	5.1mb		
NUR	63.33	335	eP	03	25.20	-1.9	ENN	76.69	341	iPd	04	49.30	0.8	SSF	80.71	341	iPc		
	0.5s	8.30nm				5.1mb		1.0s	69.00nm	5.6mb		0.9s	36.85nm			5.3mb			
TPC	63.73	68	eP	03	29.00	-1.2					04	50.20	3kmX	DIX	80.77	338	iPd		
PLM	63.76	69	eP	03	29.00	-1.6	BRS	76.78	183	iPc	04	49.00	-0.2	EMS	80.89	339	iPd		
BAR	64.34	69	eP	03	34.00	-0.2	HBVT	77.07	34	iPc	04	50.50	-0.2	GRG	80.91	326	ePd		
IPM	64.34	245	ePc	03	35.90	1.6	ABH	77.17	340	eP	04	50.61	-0.6	PRK	80.94	323	eP		
	1.2s	64.50nm				5.5mb	ECB	77.27	349	eP	04	51.70	0.1	AVF	81.00	341	iPc		
UPP	65.68	338	iP	03	38.90	-3.4X		0.8s	47.00nm	5.6mb	SMF	81.04	341	iPc	05	12.60	0.4		
			i	04	11.40	134kmX	ECP	77.40	349	eP	04	52.40	0.0		1.2s	108.60nm	5.7mb		
GOL	65.95	57	iPc	03	44.70	0.0		1.0s	116.00nm	5.9mb	PLG	81.04	325	iPd	05	12.00	-0.3		
	0.8s	16.74nm				5.1mb	MBL	77.45	214	iPc	04	52.90	-0.1	ORX	81.05	338	P		
MTN	65.96	207	iPc	03	44.10	-0.5		0.7s	48.00nm	5.6mb	IZM	81.27	322	eP	05	13.20	-0.4		
	0.6s	101.00nm				6.0mb	BNH	77.51	32	iPc	04	53.40	0.2	CMS	81.30	189	iPc		
NB2	66.03	342	P	03	42.40	-2.3	DOU	77.60	342	Pc	04	54.90	1.4		0.9s	22.00nm	5.1mb		
	0.5s	4.70nm				4.8mb	MIM	77.69	31	eP	04	54.50	0.4	TPT	81.30	125	eP		
HFS	66.34	340	eP	03	44.20	-2.3	BHG	77.85	335	eP	04	56.30	1.3		1.2s	35.00nm	5.2mb		
	0.7s	9.60nm				4.9mb		0.8s	18.00nm	5.2mb	BGF	81.33	342	eP	05	14.00	0.3		
Z	18s	0.44um				4.7MsZ	VAL	78.07	351	P	04	57.00	1.0		0.6s	18.50nm	5.2mb		
		LR	29	22.00			BEO	78.18	329	e(P)	04	56.00	-0.8	OHR	81.35	327	eP		
MAIO	67.06	299	eP	03	52.00	0.3	HRT	78.24	321	eP	04	59.00	1.7	LSD	81.41	338	P		
		eS	12	47.00			PWLA	78.48	49	iPc	04	58.10	-0.5	FNA	81.43	327	iPc		
ANMO	68.75	61	iP	04	02.70	0.4	WATA	78.55	336	iPc	04	59.20	0.2	LPL	81.46	339	iPc		
	1.0s	18.13nm				5.0mb		1.0s	52.10nm	5.5mb	LPG	81.47	339	iPc	05	15.90	1.1		
ALQ	68.75	61	iPc	04	02.50	0.1					04	59.90	2kmX		0.6s	63.40nm	5.8mb		
	1.0s	17.50nm				5.0mb	CDF	78.61	339	iPc	04	59.40	0.2	BOB	81.49	337	P		
HYB	68.77	272	iPc	04	02.50	0.1		1.0s	36.00nm	5.3mb	VAH	81.51	126	eP	05	13.00	-1.9		
	0.9s	125.00nm				5.9mb	PTJ	78.63	333	eP	04	57.90	-1.5		1.2s	15.00nm	4.9mb		
		e	04	23.00	78kmX		EMM	78.65	30	ePc	04	59.80	0.5	CSS	81.57	316	eP		
PPI	68.78	242	eP	04	01.00	-1.4	ZAG	78.70	333	eP	05	00.10	0.5	ELL	81.58	319	iP		
SCH	69.90	25	ePc	04	08.90	0.1	SQTA	78.75	336	iPc	05	00.40	0.3	RUV	81.60	125	eP		
	0.5s	31.00nm				5.5mb		1.0s	55.40nm	5.5mb		1.2s	40.00nm			5.3mb			
CTA	69.98	190	iPc	04	08.80	-0.8					05	01.20	3kmX	SFI	81.63	335	P		
	1.0s	90.00nm				5.7mb					05	12.90		LIT	81.63	326	iPd		
POO	71.00	276	eP	04	16.50	0.5	FVI	78.91	335	P	05	00.70	0.0	RSP	81.67	338	P		
QIS	71.40	196	eP	04	12.00	-6.2X	OGA	79.13	336	eP	05	03.30	1.1	MME	81.69	335	P		
	1.0s	52.00nm				5.4mb		0.8s	23.00nm	5.2mb	ARV	81.71	334	P	05	16.50	0.8		
WB5	71.84	201	iPc	04	20.00	-0.8	SAX	79.20	338	iPd	05	03.30	0.6	MAF	81.71	342	iPc		
DZM	72.04	170	iPd	04	23.00	0.9	HAU	79.20	340	iPc	05	02.40	0.0	KZN	81.71	326	eP		
GBA	72.29	270	P	04	25.00	1.3		0.9s	31.10nm	5.2mb	TCF	81.72	342	iPc	05	15.00	-0.9		
MEO	73.22	56	iPc	04	29.20	0.2		Z	20s	0.40um	4.8MsZ	PLDF	81.73	341	P	05	16.91	1.0	
SIO	73.70	54	eP	04	31.50	-0.2	ZLA	79.22	338	iPd	05	03.20	0.7	AGO	81.75	341	P		
		e	04	45.30	48km		BSF	79.26	339	eP	05	02.60	-0.2	BDI	81.84	335	P		
KRA	73.72	332	eP	04	30.90	-0.6		0.8s	16.10nm	5.0mb	HRI	81.85	313	iPc	05	17.50	0.8		
		e	04	32.50	5kmX		TBR	79.42	36	ePc	05	03.20	-0.4	CRE	81.87	334	P		
TUL	73.85	53	iPc	04	32.40	-0.2	TRI	79.44	334	ePd	05	03.00	-0.7	MTF	81.87	344	iPc		
	1.0s	60.00nm				5.5mb	VVI	79.57	335	P	05	02.50	-1.9		0.8s	81.95nm	5.8mb		
		i	04	45.80	46km		RDO	79.59	324	iPd	05	05.00	0.5	LSF	81.89	342	iPc		
EKA	73.90	348	P	04	32.00	-0.5	ALN	79.61	324	ePc	05	03.58	-1.0	BNI	81.91	339	P		
	0.6s	11.80nm				5.0mb	LLS	79.64	338	iPd	05	05.90	0.9	PCP	81.93	337	P		
KSP	74.07	335	eP	04	33.00	-0.6	CTI	79.72	336	P	05	05.00	-0.3	PRM	81.93	45	iPc		
	1.0s	21.00nm				5.0mb	GBTN	79.77	46	ePc	05	05.40	-0.2						
		ic	04	34.70	6kmX		FLN	79.85	344	iPc	05	05.80	0.0						
SPC	74.39	332	eP	04	36.10	0.4		0.9s	1013.20nm	6.8mb X				RRL	82.01	338	P		
CLL	74.53	337	iP	04	35.40	-0.8		Z	20s	0.73um	5.0MsZ	NEO	82.06	325	eP	05	16.50	-1.1	
	1.5s	48.00nm				5.2mb	WARB	79.89	206	iPc	05	07.40	1.2	PYM	82.07	341	P		
KOD	74.78	268	iPc	04	39.00	0.4		0.6s	40.00nm	5.5mb	PPCY	82.08	316	eP	05	17.50	-0.2		
	1.0s	180.00nm				6.0mb	LDF	79.95	344	iPc	05	06.40	0.1	CKI	82.10	337	P		
FVM	74.94	49	iPc	04	38.30	-0.6		0.9s	68.80nm	5.6mb	ASS	82.18	334	P	05	18.80	0.6		
PRU	75.33	335	iP	04	41.30	0.5	NAV	79.95	43	iP	05	06.70	0.1	KSL	82.25	319	eP		
	0.9s	16.80nm				5.0mb	COO	79.98	183	eP	05	08.00	1.4	JSC	82.27	45	iPc		
Z	20s	1.60um				5.3MsZ	BLA	80.20	42	eP	05	08.30	0.3	LHS	82.31	44	iP		
N	20s	1.00um						1.0s	33.00nm	5.2mb	PZZ	82.32	338	P	05	18.59	-0.5		
E	20s	0.60um									FIN	82.32	337	P	05	18.69	-0.2		
		i	04	48.90	24kmX		GRR	80.27	345	iPc	05	08.60	0.5	ROB	82.33	337	P		
WTS	75.34	341	eP	04	42.00	1.1	SRS	80.34	325	ePc	05	07.86	-0.7	ENR	82.50	338	P		
	0.7s	29.00nm				5.3mb	SKO	80.36	327	iP	05	09.00	0.3	LBL	82.51	341	P		
MOX	75.49	337	eP	04	42.50	0.7		Z	21s	1.33um	5.3MsZ	STV	82.51	338	P	05	18.80	-1.2	
									LR	43	40.00		AGG	82.64	325	ePc	05	18.70	-2.0
ASPA	75.59	201	iPc	04	42.90	0.3	TMA	80.38	337	iPd	05	09.60	0.7	IMI	82.68	337	P		
	0.8s	69.20nm				5.6mb	EZN	80.42	323	eP	05	19.00	10.0X	ARG	82.79	320	iPd</		

MNS	0.9s	67.15nm	5.7mb	PDCR	140.95	24	ePKP	12	20.30	-7.6X	16.684 N ± 25.0km	93.777 W ± 9.7km
SBF	82.80	333 P	05 21.50	0.0	PPD	145.05	48	iPKPc	12	34.70	-0.1	DEPTH = 175.5 ± 11.3 km
	82.84	338 iPc	05 21.70	0.0				e	12	48.60		3.9mb (1 obs.)
MJMA	0.9s	67.15nm	5.7mb	VAO	147.88	42	ePKP	12	42.90	3.4X	CHIAPAS, MEXICO	(61)
IGT	82.91	327 ePd	05 21.06	-1.0	JFO	148.23	36	ePKP	12	41.50	1.4	Felt in Chiapas, Oaxaco, Tabasco
EVR	82.92	326 eP	05 21.00	-1.2	BMA	148.78	38	ePKP	12	45.40	4.5X	and Veracruz.
DUI	82.94	332 P	05 22.00	-0.2								
AZI	82.95	333 P	05 23.00	0.9								
ZNT	83.03	313 iPc	05 23.70	0.9								
ATH	83.04	324 eP	05 22.50	-0.2								
CAF	83.05	342 iPc	05 23.80	1.1								
SDI	83.09	332 P	05 22.50	-0.5								
APE	83.11	322 eP	05 21.00	-2.2								
LFf	83.30	343 iPc	05 24.70	0.8								
	0.8s	95.35nm	5.9mb									
FRF	83.32	338 iPc	05 24.20	0.2								
	1.4s	104.55nm	5.7mb									
RMP	83.33	333 P	05 24.50	0.4								
RDP	83.37	333 P	05 24.50	0.1								
RFI	83.41	332 P	05 25.97	1.5								
	1.3s	624.50nm	6.5mb X									
LPO	83.46	342 iPc	05 25.80	1.0								
LRG	83.49	338 iPc	05 25.40	0.5								
	0.9s	101.55nm	5.9mb									
	20s	0.70um	5.0Msz									
SGS	83.52	45 iPc	05 26.00	0.8								
		iP	05 39.50	46km								
LMR	83.57	338 iPc	05 25.70	0.4								
	1.1s	134.30nm	5.9mb									
PGF	83.67	336 eP	05 25.90	-0.1								
	0.6s	37.00nm	5.6mb									
SGO	83.68	331 P	05 25.50	-0.3								
KAP	83.75	320 iPd	05 25.00	-1.4								
ORI	83.76	330 P	05 27.00	0.7								
HBF	83.80	45 iPc	05 27.40	0.8								
		eP	05 40.60	44km								
FORR	83.90	204 eP	05 27.00	0.1								
	0.4s	19.00nm	5.5mb									
MGR	83.98	331 P	05 27.50	0.1								
BWA	84.00	186 eP	05 28.10	0.7								
CSI	84.07	330 P	05 28.20	0.3								
TDS	84.16	330 P	05 27.90	-0.5								
ROI	84.16	330 P	05 29.60	1.2								
ITM	84.41	325 eP	05 28.00	-1.7								
VLI	84.43	324 iPc	05 27.50	-2.3								
UQSK	84.54	304 PKP	05 31.50	0.9								
NPS	84.64	321 iPc	05 29.00	-1.9								
RMN	84.66	312 iPc	05 31.60	0.5								
CAN	84.85	186 eP	05 32.80	1.2								
VAM	85.09	322 eP	05 32.50	-0.6								
EPF	85.22	342 eP	05 34.20	0.5								
	0.8s	24.20nm	5.4mb									
AFIF	85.43	302 PKP	05 37.30	2.2								
HOL	85.47	311 PKP	05 36.10	1.0								
ATN	85.81	330 P	05 36.50	-0.1								
BADA	86.11	311 PKP	05 39.50	1.2								
GIB	86.42	331 P	05 43.50	3.7X								
MEU	86.94	330 P	05 41.20	-1.1								
LVI	86.95	332 P	05 41.30	-0.9								
FAI	87.19	331 P	05 44.50	1.1								
BAL	87.19	213 eP	05 43.00	-0.2								
KLB	87.72	212 eP	05 45.70	-0.1								
	0.7s	44.00nm	5.8mb									
TOL	89.08	345 iPd	05 53.00	0.5								
	1.2s	78.13nm	5.9mb									
NWAO	89.12	212 eP	05 53.00	0.6								
BCAO	114.71	312 ePKPd	11 38.20	-0.1								
	0.5s	3.00nm										
TIC	121.49	338 PKP	11 51.10	0.0								
KIC	121.69	337 PKP	11 51.30	-0.2								
LIC	121.90	337 PKP	11 52.00	0.1								
	20s	0.13um	4.6Msz									
KRI	125.93	288 iPKPd	12 03.30	3.5X								
BUL	129.04	286 iPKPd	12 00.50	-5.2X								
ZOBO	131.33	63 PKP	12 11.00	0.4								
	1.1s	11.60nm										
LPB	131.55	63 ePKP	12 12.00	1.1								
		e	12 24.00									
CNCB	131.84	63 PKPc	12 13.00	1.4								
		e	15 34.00									
SIV	135.02	55 PKPc	12 04.20	-12.8X								
		i	12 17.20									
SPA	139.49	180 ePKP	12 14.70	-9.2X								
	1.0s	8.50nm										
RAO	140.89	38 ePKP	12 22.00	-5.9X								

28d 09h

SIV 7.19 51 Pc 01 19.80 -1.5
 VAO 18.63 181 (P) 03 39.00 0.6
 SOB1 27.58 69 eP 05 02.60 0.1
 S.D. = 1.1 on 9 of 9 obs.

OCT 28, 1990 09h 16m 29.29 ± 1.26s
 34.006 N ± 6.6km 25.814 E ± 4.9km
 DEPTH = 23.3 ± 10.1 km
 4.1mb (5 obs.)

CRETE (370)

NPS 1.26 352 eP 16 54.00 2.4
 KAP 1.90 36 iPd 17 02.00 1.2
 VAM 1.93 317 eP 16 58.00 -3.2X
 ARG 2.91 40 iPc 17 15.50 0.4
 APE 3.06 356 eP 17 18.00 0.6
 VLI 3.58 320 eP 17 21.60 -3.1X
 KSL 3.74 55 eP 17 25.80 -1.1
 SMG 3.79 12 eP 17 32.50 5.0X
 CIN 4.03 27 eP 17 32.00 0.9
 ELL 4.32 50 iP 17 35.00 -0.3
 ITM 4.48 316 eP 17 38.50 1.0
 IZM 4.54 15 eP 17 39.00 0.7
 BCK 5.19 47 eP 17 47.10 -0.5
 EZN 5.82 4 eP 17 57.00 0.6
 HLW 6.26 130 eP 18 02.30 -0.2

CSS 6.28 79 eP 17 58.50 -4.4X
 KZN 7.07 334 eP 18 17.50 3.5X
 ZNT 7.93 100 eP 18 21.50 -4.5X
 DSI 8.41 104 eP 18 28.00 -4.7X
 eS 19 57.00

SKO 8.67 338 iP 18 53.50 17.3X
 MBH 8.79 116 eP 18 35.50 -2.4
 ATN 9.35 299 P 18 44.80 -0.8
 eSn 20 21.10

MEU 9.39 292 P 18 45.80 -0.5
 TDS 9.46 309 P 18 46.50 -0.7
 ORI 9.62 312 P 18 48.00 -1.4
 MGR 10.22 310 P 18 56.00 -1.7
 SGO 10.62 311 P 19 02.30 -0.7
 VOY 15.07 326 e(P) 20 00.80 -1.6
 FVI 16.00 326 P 20 24.00 9.7X
 CTI 16.17 322 P 20 19.50 2.9X
 WATA 17.11 325 eP 20 32.00 3.5X
 0.8s 12.60nm 4.1mb
 i 20 39.00

SOTA 17.20 324 eP 20 31.00 1.4
 0.7s 12.90nm 4.2mb
 i 20 40.30
 i 20 43.60

CLL 19.64 336 eP 21 02.00 2.8X
 HFS 27.32 347 eP 22 12.80 -1.2
 0.5s 1.70nm 4.0mb
 NB2 28.65 345 P 22 24.70 -1.3
 0.5s 1.20nm 3.9mb

BCAO 30.19 195 ePd 22 41.80 1.6
 0.5s 6.00nm 4.7mb
 TIC 39.42 233 P 24 01.00 1.7
 KIC 39.44 233 P 24 01.00 1.5

GKN 50.19 80 P 25 25.60 0.1
 DMN 50.72 80 P 25 30.10 0.4
 KKN 50.80 80 P 25 30.26 0.1
 PKI 50.98 80 P 25 31.24 -0.5
 GUN 51.24 80 P 25 33.86 0.1

S.D. = 1.2 on 31 of 43 obs.

? OCT 28, 1990 09h 59m 08.60 ± 1.25s
 39.086 N ± 8.0km 27.645 E ± 15.7km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.1 (ISK).

IZM 0.75 204 ePg 59 23.30 0.0
 eSg 59 33.80
 EZN 1.26 306 ePn 59 32.00 0.0
 EDC 1.27 8 ePn 59 32.00 -0.2
 BNT 1.29 9 iPn 59 32.00 0.2

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

* OCT 28, 1990 11h 43m 38.01 ± 0.72s
 7.561 S ± 8.9km 129.204 E ± 9.6km
 DEPTH = 33.0km (normal)
 4.5mb (5 obs.)

BANDA SEA (280)

MTN 5.58 160 eP 45 02.00 1.0

KNA 8.15 183 eP 45 37.00 0.0
 0.3s 88.00nm 6.4mb X
 eS 47 02.00

MBL 16.27 213 eP 47 25.20 -0.6
 0.4s 13.00nm 4.4mb
 eS 50 14.00

OIS 16.38 143 eP 47 24.00 -3.2X
 e 47 31.00
 eS 50 12.00

ASPA 16.64 165 eP 47 27.90 -2.5
 0.5s 15.90nm 4.4mb
 IS 50 22.60

PMG 17.85 97 eP 47 46.00 0.4
 WARB 18.68 187 eP 47 54.00 -1.8
 0.3s 6.00nm 4.3mb

CTA 20.69 129 iPd 48 18.80 0.8
 0.8s 25.37nm 4.6mb
 MEKA 21.49 207 eP 48 21.50 -4.6X

FORR 23.19 182 eP 48 44.00 1.1
 0.4s 43.00nm 5.3mb
 OLP 23.71 145 eP 48 49.00 1.1

MRWA 24.88 208 eP 48 59.00 -0.2
 eS 53 35.00
 BAL 25.74 205 eP 49 08.00 0.6

eS 53 57.00
 KLB 26.19 203 iPc 49 12.80 1.3
 eS 54 04.00

RMO 26.46 138 eP 49 12.00 -2.0
 MUN 27.14 205 eP 49 21.00 0.8
 eS 54 26.00

NWAO 27.58 202 eP 49 25.00 0.9
 BFD 31.08 160 eP 50 06.80 4.4X
 GUN 54.73 312 P 53 07.00 -0.3

PKI 54.89 311 P 53 08.00 -0.4
 GKN 55.70 311 P 53 13.80 -0.2
 CNCB 150.42 145 PKP 03 31.00 7.1X

LPB 150.57 145 ePKP 03 30.00 6.1X
 ZOBO 150.76 144 PKP 03 31.00 6.6X
 SIV 154.48 157 ePKP 03 38.40 9.4X

i 03 53.40
 S.D. = 1.2 on 18 of 25 obs.

? OCT 28, 1990 12h 49m 31.93 ± 3.13s
 40.384 N ± 10.7km 27.823 E ± 27.1km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.1 (ISK).

EDC 0.05 140 iPg 49 34.00 -0.1

BNT 0.08 110 iPg 49 34.60 0.2

KCT 0.43 108 iPg 49 40.60 -0.1

CTT 0.69 31 iPg 49 49.00 0.0

eSg 50 03.00

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

0.3s 66.00nm 6.3mb X
 eS 29 02.00

KNA 13.28 206 eP 28 04.00 0.7
 eS 30 24.00
 WB5 15.96 182 eP 28 33.10 -5.2X

eS 31 23.50
 OIS 17.25 165 eP 28 55.00 0.3
 eS 32 01.00

CTA 19.60 146 eP 29 23.00 -0.2
 ASPA 19.74 183 eP 29 24.60 -0.1
 0.8s 14.70nm 4.3mb

eS 32 55.40
 S.D. = 0.8 on 5 of 6 obs.

* OCT 28, 1990 14h 53m 28.80 ± 0.81s
 41.162 N ± 8.6km 28.509 E ± 5.8km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.3 (ISK).

CTT 0.66 256 iPg 53 30.40 -0.7

eSg 53 36.00

ISK 0.43 103 ePg 53 37.80 0.3

DMK 0.87 320 iPg 53 45.70 0.2

BNT 0.92 209 iPn 53 47.00 0.6

MFT 1.00 248 iPn 53 48.00 0.1

IZI 1.10 138 ePn 53 49.00 -0.6

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

SOH	5.17	11	iPd	48	44.01	0.1	MEKA	21.24	205	eP	01	59.90	0.3	LZH	49.06	334	iPc	05	58.50	0.5	
GRG	5.21	2	ePc	48	43.94	-0.6		0.3s	22.00nm	eS	05	51.00	5.1mb		1.5s	184.00nm	pP	06	37.50	5.6mb	
EZN	5.27	38	eP	48	49.00	3.7X	CTA	21.41	128	iPc	02	02.20	1.0				sP	06	57.00	174kmX	
KNT	5.45	6	ePd	48	47.66	-0.2		0.7s	26.03nm	iS	05	50.00	4.8mb				sCp	10	58.00		
OHR	5.46	350	ePn	48	46.20	-1.9					02	21.00	3.4X	KOD	53.65	288	eP	06	32.00	-0.9	
SRS	5.49	12	iPd	48	48.05	-0.4	OCP	23.10	342	eP	02	20.00	0.6	GUN	54.04	312	P	06	35.12	-0.6	
VAY	5.58	4	iPn	48	49.40	-0.3	FORR	0.4s	65.00nm	i	03	12.10	5.5mb		0.7s	257.00nm				6.1mb	
LCI	5.64	326	P	48	47.50	-2.9X					07	30.00		PKI	54.20	312	P	06	35.82	-1.0	
			eSn	49	44.60		QLP	24.29	143	iPc	02	29.20	0.2		0.7s	86.00nm				5.7mb	
ATN	5.84	296	P	48	54.50	1.1					02	28.70	-0.3	KKN	54.42	312	P	06	37.58	-0.7	
TDS	6.02	312	P	48	56.00	0.2					03	10.00			0.7s	130.00nm				5.8mb	
			eSn	50	00.00		COOL	24.29	195	eP	02	28.70	-0.3	DMN	54.45	312	P	06	37.86	-0.7	
KSL	6.08	84	ePn	48	55.70	-0.9					02	31.40	-0.6		0.8s	153.00nm				5.9mb	
CSI	6.12	313	P	49	00.30	3.1X	MRWA	24.60	207	eP	02	31.40	-0.6	GBA	54.73	292	P	06	39.60	-0.7	
ORI	6.22	316	P	48	58.50	0.0	BAG	24.92	342	eP	02	35.00	-0.2	GKN	55.01	312	P	06	41.70	-0.7	
			eSn	50	04.00		BAL	25.51	204	eP	02	40.00	-0.3		0.7s	255.00nm				6.2mb	
SKO	6.24	355	iPn	48	57.70	-1.2					03	10.00		HYB	55.07	297	iPd	06	42.00	-0.9	
MMN	6.37	312	P	49	03.20	2.6X					07	33.00			1.0s	100.00nm				5.6mb	
ELL	6.38	79	eP	48	58.00	-3.0X					02	44.50	-0.2	POO	59.65	296	iPc	07	13.20	-1.8	
MGR	6.79	312	P	49	06.50	0.1	KLB	25.99	201	iPd	02	44.50	-0.2	NDI	60.99	308	iPc	07	22.00	-1.9	
SGO	7.20	314	P	49	11.50	-0.6					03	15.00			0.6s	56.67nm				5.7mb	
			eSn	50	26.10		KGM	26.71	290	eP	02	52.80	1.4	QUE	69.74	306	eP	08	20.00	-0.1	
DUI	8.41	317	P	49	28.00	-0.8	MUN	26.92	203	eP	02	52.30	-0.8	SBA	73.12	172	iP	08	40.30	1.2	
SDI	8.80	315	P	49	35.50	1.3					03	29.00				e(S)	18	40.40			
VOY	12.01	331	eP	50	16.40	-1.0					08	02.00		MAW	73.96	201	iPc	08	44.40	0.3	
			eS	52	20.00						03	23.00		MAIO	77.71	310	iPc	09	06.50	0.6	
FVI	12.91	330	P	50	27.50	-1.7					06	11.00		SPA	82.61	180	iPc	09	31.00	-0.4	
WATA	14.00	329	eP	51	01.50	17.8X					02	56.90	-0.5		1.0s	49.50nm				5.2mb	
	0.8s		8.60nm				RMQ	27.10	137	eP	02	53.00	-1.8		Z	20s	0.77um				5.1msz
			i	53	08.00						03	34.50		IMA	91.89	24	eP	10	10.70		
SQTA	14.06	328	iP	50	51.40	6.9X					03	12.00			0.8s	5.17nm				-0.4	
	0.6s		4.00nm			3.9mb					03	11.00	-0.4	PMR	92.92	28	iP	10	19.50	-1.2	
			i	50	56.30						03	11.00	-0.4		0.7s	13.81nm				5.3mb	
			i	53	04.10						03	11.00	-0.4	FBA	94.06	25	eP	10	23.50	-2.4	
			i(Sg)	53	12.40						03	11.00	-0.4	SLR	95.81	243	iPc	10	35.00	0.0	
HFS	25.01	350	eP	52	47.90	2.3					03	11.00	-0.4	NB2	109.43	333	PKP	15	36.10	-1.6	
	0.3s		2.00nm			4.0mb					03	11.00	-0.4		0.9s	5.00nm					
	S.D. = 1.0	on 31	of 44	obs.							03	11.00	-0.4	LJU	111.81	317	e(PKP)	15	42.70	0.1	
											03	11.00	-0.4	VOY	112.25	317	ePKP	15	43.00	-0.6	
											03	11.00	-0.4	GRC1	113.07	320	ePKP	15	44.90	0.0	
											03	11.00	-0.4		Z	19s	0.10um				4.4msz
											03	11.00	-0.4	WATA	113.48	319	iPKP	15	45.20	-0.8	
											03	11.00	-0.4		0.5s	5.00nm					
											03	11.00	-0.4	SQTA	113.75	319	iPKP	15	45.30	-1.2	
											03	11.00	-0.4		0.7s	5.20nm					
											03	11.00	-0.4	CDP	115.93	321	ePKP	15	49.10	-1.5	
											03	11.00	-0.4	BSF	116.43	320	ePKP	15	50.30	-1.3	
											03	11.00	-0.4		0.8s	14.80nm					
											03	11.00	-0.4	HAU	116.65	320	ePKP	15	50.90	-1.0	
											03	11.00	-0.4		0.8s	8.05nm					
											03	11.00	-0.4	DUG	116.66	49	ePKP	15	53.00	0.7	
											03	11.00	-0.4	LPG	117.21	318	ePKP	15	52.90	-0.5	
											03	11.00	-0.4		0.7s	7.15nm					
											03	11.00	-0.4	LPL	117.21	318	ePKP	15	52.80	-0.5	
											03	11.00	-0.4		0.5s	4.35nm					
											03	11.00	-0.4	BW06	118.34	45	ePKP	15	54.30	-1.2	
											03	11.00	-0.4	LOR	118.48	320	ePKP	15	54.70	-0.7	
											03	11.00	-0.4		0.8s	6.70nm					
											03	11.00	-0.4	Z	20s	0.25um					4.8msz
											03	11.00	-0.4	LBF	118.51	320	ePKP	15	54.80	-0.7	
											03	11.00	-0.4		0.9s	12.30nm					
											03	11.00	-0.4	SMF	118.72	320	ePKP	15	54.90	-0.9	
											03	11.00	-0.4	SSF	118.78	320	ePKP	15	55.50	-0.4	
											03	11.00	-0.4		0.9s	21.30nm					
											03	11.00	-0.4	AVF	118.98	320	ePKP	15	55.40	-0.9	
											03	11.00	-0.4		0.8s	7.40nm					
											03	11.00	-0.4	BGF	119.39	320	ePKP	15	56.90	-0.2	
											03	11.00	-0.4		0.7s	19.30nm					
											03	11.00	-0.4	MAF	119.70	320	ePKP	15	57.20	-0.5	
											03	11.00	-0.4	TCF	119.90	320	ePKP	15	57.70	-0.4	
											03	11.00	-0.4		1.0s	19.00nm					
											03	11.00	-0.4	LDF	120.40	323	ePKP	15	58.40	-0.5	
											03	11.00	-0.4		0.9s	16.40nm					

28d 16h

ALO	122.86	53	ePKP	16	05.00	0.7
ANMO	122.86	53	iPKP	16	05.00	0.7
SIO	130.42	49	ePKP	16	20.00	1.4
TUL	130.73	48	ePKP	16	20.00	0.8
ANT	144.01	150	iPKP	16	42.50	-1.4
MBO	145.30	284	iPKP	16	46.60	0.4
NNA	148.35	127	iPKP	16	52.50	1.2
ARE	149.17	140	ePKP	16	55.00	2.1
BMA	149.17	194	ePKP	16	57.80	5.4X
VAO	149.41	188	ePKP	16	58.70	5.9X
JFO	149.89	196	ePKP	17	00.20	6.7X
PPD	150.71	181	ePKP	16	55.70	1.0
CNCB	150.98	146	PKP	16	57.80	1.9
LPB	151.14	146	PKP	16	58.00	2.0
ZOBO	151.33	145	PKP	16	57.50	1.0
CCH	151.47	150	PKP	17	04.80	8.5X
UPA	152.33	85	ePKP	17	04.50	7.3X
SIV	154.91	158	PKP	17	02.00	1.3
SOB1	160.31	213	ePKP	17	07.60	0.3
S.D. = 1.1 on 113 of 124 obs.						

* OCT 28, 1990 16h 03m 41.92 ± 0.40s
 57.911 S ± 11.2km 23.151 W ± 10.4km
 DEPTH = 33.0km (normal)
 5.3mb (1 obs.)

SOUTH SANDWICH ISLANDS REGION (153)

AIA	20.56	232	eP	08	19.00	-0.8
VAO	38.87	324	eP	11	06.90	1.1
PPD	41.23	318	eP	11	25.50	0.3
BAO	46.12	326	eP	12	05.50	0.7
PDCR	46.89	338	eP	12	10.30	-0.4
SIV	50.47	310	P	12	37.00	-1.4
SOB1	50.48	337	iPd	12	37.70	-0.8
CCH	51.40	304	P	12	46.10	0.3
CNCB	52.73	302	P	12	56.00	-0.2
LPB	53.02	302	P	12	58.00	-0.2
LKO	68.74	19	iPd	14	43.62	-0.7
BCAO	70.58	45	iPd	14	55.30	-0.3
APO	121.64	20	ePKP	22	30.40	-1.8
DMN	122.56	89	PKP	22	35.20	-0.1
GKN	122.63	89	PKP	22	35.18	-0.1
PKI	122.69	90	PKP	22	35.60	-0.1
DUG	122.76	294	ePKP	22	35.50	0.3
KKN	122.80	89	PKP	22	35.80	0.1
GUN	123.21	90	PKP	22	36.96	0.2
TNP	123.32	290	ePKP	22	37.20	0.8
NUR	123.88	26	ePKP	22	49.00	12.5X
ARN	124.95	286	ePKP	22	40.70	1.3
SUF	126.16	26	ePKP	22	38.10	-2.8X
SOD	130.27	23	ePKP	22	49.00	0.4
SSE	143.77	122	ePKP	23	13.30	-1.3
MBC	146.60	334	ePKP	23	19.50	1.5
BJI	148.50	107	ePKP	23	23.50	1.4
INK	148.66	318	ePKP	23	26.00	4.5X
FBA	153.41	308	ePKP	23	26.00	7.4X
IMA	156.00	310	ePKP	23	42.30	10.0X
TTA	156.64	302	ePKP	23	50.70	17.5X

S.D. = 0.9 on 25 of 31 obs.

?	OCT 28, 1990	16h 43m	42.22 ± 1.26s	17.140 S ± 22.2km	178.962 W ± 24.0km	DEPTH = 522.1 ± 10.2 km	4.3mb (2 obs.)
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FIJI ISLANDS REGION (181)

VUN	2.60	250	iPd	44	52.70	-0.4
SGE	3.01	261	iPd	44	56.10	0.3
DZM	14.60	248	iPc	46	49.00	0.8
WB5	44.23	259	eP	51	03.00	-3.6X
ASPA	44.50	254	eP	51	07.80	-0.8
MAT	66.98	323	eP	53	44.00	-0.5
SPA	72.97	180	iPc	54	19.40	-0.3
KSP	144.23	343	iPKPd	02	19.30	-0.3
CLL	144.60	347	iPKPd	02	19.90	-0.3
PRU	145.47	345	PKPc	02	23.20	1.5
KHC	146.50	345	ePKP	02	26.50	3.0X
GRC4	147.01	347	e(PKP)	02	27.50	3.2X
CDF	148.40	352	ePKP	02	31.00	4.4X
FLN	148.44	2	ePKP	02	30.00	3.5X
LDF	148.61	1	ePKP	02	30.40	3.6X
WATA	148.66	346	iPKP	02	32.10	5.0X
GRR	148.80	2	ePKP	02	31.20	4.2X
SOTA	148.85	347	iPKP	02	31.90	4.5X
LPF	149.14	3	ePKP	02	31.90	4.3X
LOR	149.87	356	ePKP	02	34.50	5.8X
SSF	150.09	357	ePKP	02	35.10	6.0X
LBF	150.14	356	ePKP	02	35.00	5.8X
AVF	150.37	357	ePKP	02	35.40	5.9X
BGF	150.63	357	ePKP	02	36.10	6.2X
TCF	150.92	358	ePKP	02	36.70	6.3X
LSF	150.97	359	ePKP	02	36.60	6.2X
MAF	150.97	358	ePKP	02	37.20	6.8X
LPL	151.31	352	ePKP	02	38.70	7.5X
LPG	151.33	352	ePKP	02	38.70	7.3X

S.D. = 0.9 on 9 of 29 obs.

* OCT 28, 1990 17h 12m 26.56 ± 0.85s
 37.103 N ± 6.7km 29.834 E ± 10.6km
 DEPTH = 10.0km (geophysicist)

TURKEY MD 4.4 (ATH).

ELL	0.36	170	iPg	12	35.00	1.0
BCK	0.70	59	ePn	12	40.10	-0.3
KSL	1.00	192	eP	12	44.50	-1.0
KHL	1.24	349	iPn	12	50.00	0.3
ARG	1.63	238	eP	12	55.50	0.1

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

* OCT 28, 1990 17h 12m 49.52 ± 1.24s
 33.360 S ± 6.8km 71.262 W ± 13.7km
 DEPTH = 33.0km (normal)

NEAR COAST OF CENTRAL CHILE (135)

LCCH	0.28	246	iPd	12	05.00	-52.1X
TACH	0.40	137	iPc	12	59.40	0.7
ROCH	0.44	29	iP	13	00.00	0.5
PEL	0.53	66	iPc	13	00.70	0.1
LNK	0.61	192	iPd	13	01.50	-0.1
PCH	0.68	113	iP	13	02.50	-0.2
CHCH	0.77	139	iPc	13	03.50	-0.4
JACH	0.88	40	iPd	13	05.00	-0.6

S.D. = 0.6 on 7 of 8 obs.

OCT 28, 1990 17h 14m 50.91 ± 0.41s
 30.682 N ± 8.7km 81.555 E ± 6.9km
 DEPTH = 33.0km (normal)
 4.5mb (8 obs.) 4.0Msz (1 obs.)
 TIBET (306)

GKN	3.79	134	P	15	50.00	1.4
NDI	4.27	243	iPnd	15	55.70	0.5
KKN	4.35	131	P	15	57.48	0.9
DMN	4.36	134	P	15	57.94	1.1
PKI	4.58	132	P	16	00.58	0.6
GUN	4.68	125	P	16	02.10	0.7
SHL	10.44	117	iP	17	17.00	-4.6X
QUE	12.61	271	eP	17	46.00	-5.0X
HYB	13.49	192	eP	17	56.50	-5.9X
POD	13.97	212	eP	18	04.50	-4.3X
BOM	14.16	216	eP	17	58.30	-12.8X
GBA	17.42	193	P	18	44.00	-9.0X
KMI	19.52	101	eP	19	17.50	-1.2
CHG	19.69	123	eP	19	18.10	-2.3
KOD	20.70	191	eP	19	30.00	-1.3
BDT	20.77	126	eP	19	30.80	-0.8
BJI	29.58	62	eP	20	50.50	-4.4X
HFS	52.98	325	eP	24	07.00	0.8
NB2	54.22	326	P	24	15.60	0.2
BCAO	64.62	260	iPc	25	26.20	-1.6
WB5	71.43	128	eP	26	09.10	-1.1
MBC	72.52	5	eP	26	16.00	0.2
IMA	74.74	20	iPd	26	29.50	0.4
TTA	76.11	23	eP	26	24.10	-12.7X
FBA	77.30	19	ePd	26	43.40	0.1
LKO	82.76	277	P	27	13.52	0.1
KIC	83.62	274	P	27	18.50	0.7
TIC	83.71	274	P	27	19.00	0.7
LIC	83.93	274	P	27	20.00	0.6
ZOBO	148.83	290	ePKP	34	33.00	-0.9
LPB	148.95	290	ePKP	34	39.00	5.1X
CNCB	149.00	289	ePKP	34	30.00	-4.2X

S.D. = 1.1 on 22 of 32 obs.

OCT 28, 1990 17h 56m 42.90 ± 0.54s
 10.100 N ± 8.7km 93.789 E ± 7.6km
 DEPTH = 33.0km (normal)
 4.6mb (10 obs.)

ANDAMAN ISLANDS REGION (703)

SNG	7.35	113	eP	58	30.20	-0.5
IPM	9.03	127	ePc	58	53.00	-1.1
CHTO	10.00	29	eP	59	09.50	2.1
KOD	16.07	272	eP	00	30.00	1.6
GBA	16.38	284	P	00	32.00	0.0
KMI	17.19	29	Pc	00	47.00	4.5X
PKI	19.09	337	P	01	05.26	-0.7
GUN	19.22	338	P	01	07.28	-0.2
DMN	19.24	336	P	01	07.56	-0.1
KKN	19.33	337	P	01	08.20	-0.5
GKN	19.78	335	P	01	13.22	-0.3

LZH 27.43 18 eP 02 27.50 -0.4
 WB5 49.84 127 eP 05 36.90 1.7
 LPG 80.81 315 eP 08 55.20 -0.1
 0.5s 2.55nm 4.5mb
 LPL 80.83 315 eP 08 55.30 0.0
 0.5s 4.00nm 4.7mb
 LBF 82.58 316 eP 09 03.70 -0.5
 LOR 82.62 317 eP 09 03.40 -1.0
 S.D. = 1.0 on 16 of 17 obs.

% OCT 28, 1990 19h 33m 10.54 ± 2.08s
 44.553 N ± 16.3km 7.615 E ± 6.8km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.1 (GEN).

ROB 0.32 145 P 33 16.69 -0.5
 S 33 21.41
 ENR 0.35 203 P 33 17.97 0.1
 S 33 22.72
 PZZ 0.37 263 P 33 18.13 -0.1
 S 33 22.85
 STV 0.37 214 P 33 18.29 0.1
 S 33 23.29
 FIN 0.55 129 P 33 21.95 0.3
 S 33 28.59
 S.D. = 0.4 on 5 of 5 obs.

* OCT 28, 1990 20h 12m 30.18 ± 1.45s
 40.321 N ± 18.4km 139.101 E ± 14.6km
 DEPTH = 178.7 ± 21.1 km
 4.5mb (14 obs.)
 NEAR WEST COAST OF HONSHU, JAPAN(226)

MAT 3.84 191 iPc 13 29.90 0.1
 eS 14 17.00
 SSE 17.19 243 P 16 20.50 -0.5
 1.0s 19.00nm 4.4mb
 LZM 27.91 273 eP 18 06.00 0.5
 1.0s 18.00nm 4.8mb
 CHG 40.53 250 eP 19 53.50 0.3
 CHTO 40.53 250 eP 19 53.00 -0.2
 0.9s 9.16nm 4.4mb
 GUN 45.15 271 P 20 31.28 0.3
 0.4s 66.00nm 5.5mb X
 KKN 45.67 271 P 20 35.14 0.2
 0.6s 74.00nm 5.3mb
 PKI 45.68 271 P 20 35.04 -0.1
 0.6s 15.00nm 4.7mb
 DMN 45.90 271 P 20 36.84 0.1
 0.4s 13.00nm 4.8mb
 GKN 46.06 272 P 20 37.90 0.0
 0.4s 23.00nm 5.1mb
 GBA 59.77 262 P 22 18.00 -0.6
 WB5 60.05 185 eP 22 16.70 -3.6X
 SOD 61.23 336 eP 22 28.00 0.1
 SUF 64.24 332 eP 22 47.30 -0.3
 NUR 66.20 331 iP 22 59.90 -0.3
 0.3s 4.50nm 4.8mb
 i 23 13.30
 HFS 70.35 334 eP 23 25.20 -0.6
 0.4s 1.50nm 4.1mb
 NB2 70.46 336 P 23 26.60 0.1
 0.6s 1.50nm 3.9mb
 FLN 84.37 334 eP 24 42.90 -0.2
 LDF 84.40 334 eP 24 43.10 -0.1
 0.8s 6.70nm 4.5mb
 SSF 84.44 331 eP 24 43.60 0.2
 LPL 84.49 329 eP 24 44.40 0.4
 0.5s 1.45nm 4.0mb
 LPG 84.50 329 eP 24 44.40 0.3
 0.6s 2.70nm 4.2mb
 AVF 84.72 331 eP 24 45.10 0.2
 0.5s 3.65nm 4.4mb
 S.D. = 0.3 on 22 of 23 obs.

OCT 28, 1990 20h 46m 45.50 ± 1.01s
 34.661 N ± 10.1km 24.049 E ± 6.0km
 DEPTH = 66.6 ± 12.9 km
 4.3mb (3 obs.)
 CRETE (370)
 MD 3.9 (ATH).

VAM 0.75 9 iPnc 47 00.40 -0.6
 NPS 1.42 64 iPbc 47 11.90 2.2X
 VLI 2.24 337 ePn 47 22.50 1.5

APE 2.69 26 ePn 47 27.00 -0.3
 KAP 2.71 70 ePn 47 29.20 1.6
 eSn 48 03.50
 ATH 3.32 355 iPnd 47 36.40 0.3
 ARG 3.67 64 ePn 47 41.50 0.4
 eSn 48 24.50
 SMG 3.79 36 ePn 47 45.50 2.9X
 IZM 4.54 34 iPn 47 54.00 0.7
 EVR 4.61 338 ePn 47 55.00 0.6
 NEO 4.68 352 ePn 47 54.30 -1.0
 KSL 4.75 71 ePn 47 55.50 -0.7
 ELL 5.20 65 iPn 48 03.00 0.3
 KZN 5.92 343 ePn 48 11.50 -1.2
 BCK 5.99 60 iPn 48 12.00 -1.7
 ATN 7.75 299 P 48 38.90 0.9
 MEU 7.79 291 P 48 36.80 -1.8
 eSn 49 54.20

ZNT 9.49 102 eP 49 01.00 -0.9
 DSI 9.99 105 eP 49 05.00 -3.7X
 WATA 15.75 327 iP 50 30.60 5.9X
 SOTA 15.83 326 iP 50 30.20 4.5X
 KHC 16.40 335 eP 50 36.50 3.8X
 HFS 26.37 348 eP 52 17.20 0.3
 0.4s 4.60nm 4.4mb
 NB2 27.66 347 P 52 28.40 -0.3
 0.5s 1.20nm 3.8mb
 BCAA 30.51 191 iPc 52 55.30 0.8
 0.6s 5.00nm 4.4mb
 S.D. = 1.1 on 19 of 25 obs.

* OCT 28, 1990 21h 17m 29.02 ± 3.44s
 33.739 S ± 10.3km 72.046 W ± 23.8km
 DEPTH = 10.0km (geophysicist)
 OFF COAST OF CENTRAL CHILE (134)

LCCH 0.48 57 iP 17 39.50 0.8
 iS 17 48.50
 LNV 0.57 112 iPd 17 41.30 0.7
 i 17 49.00
 TACH 0.93 85 iPd 17 46.50 -0.3
 iS 18 01.00
 ROCH 1.16 49 iPd 17 50.50 -0.3
 iS 18 08.00
 CHCH 1.18 100 iPd 17 50.60 -0.4
 iS 18 08.40
 SAN 1.19 77 iPd 17 50.70 -0.5
 iS 18 09.60
 PCH 1.28 85 iPd 17 52.50 -0.4
 iS 18 12.20
 PEL 1.28 63 iPd 17 53.00 0.1
 JACH 1.61 50 iPd 17 57.50 -0.2
 iS 18 20.50
 MDZ 2.81 73 iP 18 20.80 5.9X
 iS 18 57.50
 RTCB 3.54 52 iPd 18 25.60 0.3
 (S) 19 24.00
 ZON 3.59 53 eP 18 31.00 5.1X
 RTLL 3.86 52 ePd 18 29.80 0.0
 S.D. = 0.5 on 11 of 13 obs.

* OCT 28, 1990 21h 40m 45.69 ± 0.78s
 19.967 S ± 9.8km 133.572 E ± 8.1km
 DEPTH = 5.0km (geophysicist)
 NORTHERN TERRITORY, AUSTRALIA (591)
 ML 3.0 (DIS).

WB5 0.75 84 iP 41 00.90 0.1
 ASPA 3.69 175 eP 41 51.40 6.7X
 0.3s 32.90nm
 eS 42 30.00
 DIS 5.69 97 e(P) 42 13.00 -0.1
 eS 43 07.70
 eS 43 43.00
 KNA 6.21 312 eP 42 21.70 1.5
 eS 43 26.50
 MTN 7.46 341 eP 42 36.90 -0.9
 0.3s 7.00nm 5.4mb X
 iS 43 56.70
 WARB 8.88 225 iPc 43 01.40 3.6X
 0.3s 7.00nm 5.6mb X
 eS 44 42.00
 FORR 11.91 203 iPc 43 40.60 1.5
 0.3s 13.00nm 5.7mb X
 eS 45 48.50
 COOL 15.61 223 eP 44 26.40 -1.8
 MRWA 18.43 237 eP 45 02.50 -1.2
 MUN 19.63 229 eP 45 19.20 1.0

S.D. = 1.5 on 8 of 10 obs.
 % OCT 28, 1990 22h 55m 14.72 ± 0.85s
 39.947 N ± 8.3km 28.747 E ± 4.9km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.9 (ISK).

KCT 0.43 315 iPg 55 23.30 -0.1
 IZI 0.68 55 iPg 55 28.50 0.3
 iSg 55 38.40
 BNT 0.75 303 iPg 55 29.30 -0.2
 iSg 55 40.30
 EDC 0.79 301 iPg 55 30.00 0.0
 iSg 55 42.00
 HRT 1.12 39 ePn 55 35.80 0.0
 ISK 1.14 12 ePn 55 36.60 0.5
 GPA 1.25 74 ePn 55 37.00 -0.9
 ALT 1.38 130 iPn 55 40.50 0.4
 S.D. = 0.5 on 8 of 8 obs.

% OCT 28, 1990 22h 55m 42.69 ± 0.88s
 39.337 N ± 6.4km 15.756 E ± 8.6km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN ITALY (390)

TDS 0.55 54 Pd 55 53.90 0.0
 eSg 56 02.00
 MMN 0.58 18 P 55 55.60 1.2
 CSI 0.60 43 P 55 55.40 0.5
 ROI 0.67 69 P 55 55.20 -0.9
 MGR 0.81 349 P 55 57.30 -1.2
 eSg 56 11.10
 ORI 0.90 36 P 55 59.80 -0.2
 eSn 56 14.30
 ATN 1.20 191 P 56 05.20 0.2
 eSn 56 22.50
 SGO 1.27 344 P 56 06.40 0.2
 eSn 56 23.30
 S.D. = 0.9 on 8 of 8 obs.

% OCT 28, 1990 23h 15m 16.75 ± 0.94s
 43.898 N ± 11.0km 11.784 E ± 6.2km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)

PGD 0.05 243 P 15 17.80 -1.3
 eSg 15 21.50
 SFI 0.05 65 Pc 15 18.30 -0.6
 eSg 15 21.00
 CRE 0.30 156 P 15 22.40 -0.6
 eSg 15 28.10
 PII 0.93 259 P 15 34.30 -0.2
 eSg 15 46.30
 ARV 0.93 115 P 15 34.00 -0.5
 S.D. = 0.6 on 5 of 5 obs.

* OCT 29, 1990 00h 11m 54.65 ± 0.95s
 11.428 S ± 10.1km 161.196 E ± 18.4km
 DEPTH = 33.0km (normal)
 4.8mb (9 obs.) 3.4Msz (1 obs.)
 SOLOMON ISLANDS (193)

HNR 2.33 328 eP 12 30.00 -1.5
 eS 13 04.00
 DZM 11.71 155 iPd 14 34.90 -7.7X
 iS 16 40.20
 RMD 19.03 216 iPd 16 15.80 -0.8
 1.0s 118.00nm 5.1mb
 e 16 23.00
 e 16 30.00
 COO 20.92 203 iPc 16 36.00 -1.0
 1.0s 26.00nm 4.6mb
 DIS 22.63 244 eP 16 55.60 1.4
 e 20 57.00
 WB5 27.13 249 eP 17 37.20 0.3
 eS 21 54.00
 ASPA 28.67 241 iPd 17 49.30 -1.5
 1.0s 6.80nm 4.3mb
 Z 22s 0.10um 3.4Msz
 CHG 68.33 296 eP 22 56.20 0.9
 GUN 82.63 300 P 24 17.42 0.5
 0.7s 7.00nm 4.8mb
 PKI 82.93 300 P 24 19.06 0.6
 0.6s 5.00nm 4.8mb
 KKN 83.10 300 P 24 19.70 0.5
 0.8s 7.00nm 4.8mb

29d 00h

DMN 83.20 300 P 24 20.60 0.9
0.9s 14.00nm 5.1mb
GKN 83.71 300 P 24 22.42 0.2
0.6s 17.00nm 5.3mb
FBA 85.12 19 eP 24 26.80 -1.5
0.9s 4.58nm 4.7mb
BCAO 142.40 262 iPKP 31 21.30 -5.6X
0.5s 4.00nm
PDCR 148.80 139 ePKP 31 17.50 -19.9X
e 31 36.80
SOB1 149.95 132 ePKP 31 40.20 1.0
S.D. = 1.1 on 14 of 17 obs.

* OCT 29, 1990 00h 26m 00.76 ± 0.63s
63.497 S ± 11.1km 172.276 E ± 13.2km
DEPTH = 10.0km (geophysicist)
5.0mb (4 obs.) 4.5Msz (2 obs.)
BALLENY ISLANDS REGION (702)

DRV 13.87 243 eP 29 20.40 1.1
SBA 14.53 185 iPc 29 27.30 -0.6
SPA 26.66 180 iPc 31 41.00 -0.2
1.1s 28.57nm 4.9mb
Z 20s 1.71um 4.6Msz
COO 35.41 329 eP 32 59.60 1.1
0.9s 12.00nm 4.8mb
DZM 41.59 352 iPc 33 53.80 3.6X
ASPA 47.22 309 eP 34 33.90 -1.5
1.0s 17.90nm 5.1mb
Z 20s 0.40um 4.4Msz
WB5 50.56 312 eP 35 00.00 -1.2
CNCB 87.50 124 P 38 51.00 0.6
CCH 87.65 125 eP 38 52.00 1.2
LPB 87.71 123 P 38 50.00 -1.2
ZOBO 87.94 123 P 38 52.00 -0.5
1.2s 20.27nm 5.3mb
LR 07 36.00
SIV 90.74 129 eP 39 00.00 -5.0X
MBC 145.91 23 ePKP 45 40.50 1.3
1.0s 12.00nm
VAY 151.60 233 ePKP 45 53.70 4.6X
S.D. = 1.2 on 11 of 14 obs.

OCT 29, 1990 00h 26m 12.94 ± 0.93s
34.183 N ± 6.1km 25.618 E ± 4.0km
DEPTH = 21.4 ± 7.6 km
4.0mb (13 obs.)

CRETE (370)
ML 4.2 (ATH). MD 4.1 (HLW).

NPS 1.08 360 iPnd 26 33.70 1.0
VAM 1.69 317 ePn 26 45.00 3.5X
KAP 1.87 43 ePn 26 46.00 1.9
APE 2.88 359 ePn 26 59.10 0.6
ARG 2.89 45 ePn 27 00.20 1.6
VLI 3.34 320 ePn 27 06.00 0.9
SMG 3.65 15 ePn 27 09.00 -0.5
KSL 3.78 58 ePn 27 11.50 0.2
CIN 3.95 30 eP 27 14.00 0.3
ATH 4.08 338 ePb 27 22.70 7.1X
ELL 4.34 53 iPn 27 20.50 1.2
IZM 4.41 17 iPn 27 20.00 -0.3
PRK 5.08 6 ePn 27 29.50 -0.2
BCK 5.20 50 iPn 27 31.00 -0.5
KHL 5.20 36 iPn 27 30.60 -0.9
NEO 5.46 340 ePn 27 35.50 0.3
PPCY 5.60 81 eP 27 37.50 0.5
EVR 5.63 328 ePb 27 41.00 3.4X
EZN 5.66 6 ePn 27 36.40 -1.5
ALT 6.06 35 eP 27 43.00 -0.6
EDC 6.41 16 eP 27 47.00 -1.5
CSS 6.41 81 eP 27 48.30 -0.2
eSn 28 55.20
PLG 6.42 345 ePb 27 50.00 1.4
BNT 6.43 16 eP 27 52.00 3.2X
HLW 6.50 130 eP 27 58.00 8.3X
eS 29 00.00
KOT 6.77 127 ePn 27 55.50 2.0
eSn 29 00.00
SRN 7.24 323 ePn 28 00.50 0.3
VAY 7.52 342 eP 28 13.40 9.3X
TPE 7.56 325 ePn 28 08.00 3.4X
OHR 7.90 332 eP 28 08.00 -1.4
ADI 8.09 95 eP 28 10.00 -2.1
ZNT 8.12 101 eP 28 10.00 -2.5X
eS 29 36.00

SKO 8.44 338 eP 28 22.00 5.0X
SHWJ 8.60 97 Pc 28 17.00 -2.2
DSI 8.61 105 iP 28 17.60 -1.7
eS 29 48.00
LCI 8.66 317 P 28 18.30 -1.6
eSn 29 44.10
BURJ 8.75 100 Pc 28 16.80 -4.5X
LACI 8.78 330 ePn 28 20.10 -1.5
PRNI 8.81 113 eP 28 21.50 -0.6
MBH 9.01 117 eP 28 25.00 0.2
ROI 9.02 309 P 28 27.20 2.2
PUK 9.05 332 ePn 28 22.20 -3.0X
ATN 9.12 299 P 28 26.10 -0.2
eSn 29 54.80

MEU 9.17 292 P 28 26.10 -1.0
eSn 29 58.00
SHWJ 9.18 112 P 28 27.20 -0.2
TDS 9.22 309 P 28 27.30 -0.4
CSI 9.32 310 P 28 29.60 0.5
ORI 9.38 311 P 28 28.80 -1.1
eSn 30 04.50

HOL 9.41 119 eP 28 30.20 0.0
eS 30 13.30
MMN 9.57 309 P 28 31.80 -0.7
BADA 9.81 123 eP 28 34.00 -1.7
eS 30 35.70
MGR 9.99 309 P 28 35.50 -2.7X
SGO 10.38 311 P 28 41.20 -2.4X
DUI 11.54 314 P 28 59.00 -0.6
SDI 11.96 312 P 29 03.20 -2.0
AKSR 12.34 146 eP 29 13.50 3.2X
AGAL 12.43 148 eP 29 14.60 3.1X
ARV 13.55 317 P 29 25.50 -0.8
SFI 14.44 316 P 29 39.50 1.6
ZST 15.38 338 eP 30 13.50 23.3X
e 54 57.40
FVI 15.76 326 P 29 59.00 3.9X
CTI 15.93 322 P 30 01.00 3.6X
WATA 16.87 325 i(P) 30 14.90 5.5X
0.5s 6.30nm 4.0mb

SOTA 16.96 324 i(P) 30 14.80 4.3X
0.5s 4.30nm 3.8mb

KHC 17.40 333 eP 30 36.50 20.6X
e 30 54.00
PRU 17.77 336 P 30 21.40 0.9
e 30 31.00

KSP 17.99 341 eP 30 22.00 -1.1
e 30 32.50

LPG 18.33 314 eP 30 30.10 2.4
0.8s 4.05nm 3.6mb

LPL 18.35 314 eP 30 30.10 2.3
0.5s 2.20nm 3.6mb

BRG 18.73 336 e(P) 31 15.00 42.8X
CLL 19.41 336 eP 31 20.00 39.5X
BSF 19.62 320 eP 30 41.60 -1.4

0.6s 3.60nm 3.8mb
CDF 19.73 322 eP 30 43.10 -1.0
0.8s 8.05nm 4.1mb

LBF 20.74 315 eP 30 55.10 0.5
0.6s 4.50nm 4.0mb
LOR 20.95 315 eP 30 56.50 -0.3
0.6s 3.60nm 4.0mb

SSF 21.06 314 eP 30 58.10 0.3
0.6s 4.50nm 4.1mb

MEM 21.78 325 Pd 31 05.40 0.4
DOU 22.15 322 Pd 31 09.70 1.0
NUR 26.35 359 eP 31 58.00 9.1X

NB2 28.44 345 P 32 07.80 -0.2
0.6s 1.30nm 3.9mb
SUF 28.56 1 eP 32 07.30 -1.7

KIC 39.42 232 P 33 47.40 4.2X
GKN 50.32 80 P 35 10.88 0.5
0.5s 7.00nm 4.9mb

KKN 50.93 80 P 35 17.42 2.3
0.9s 12.00nm 4.8mb
PKI 51.12 80 P 35 18.78 2.1
0.8s 10.00nm 4.8mb

GUN 51.37 80 P 35 20.94 2.3
S.D. = 1.3 on 61 of 86 obs.

* OCT 29, 1990 00h 39m 40.36s
60.701 N 142.944 W
DEPTH = 6.7km
SOUTHERN ALASKA (2)
<AGS-P>

TGL 0.08 46 iP 39 43.23 0.7
iS 39 45.95
BALM 0.45 41 iP 39 49.63 0.3
eS 39 57.02
YAH 0.68 119 iP 39 52.61 -1.5
WRG 0.81 145 iP 39 55.85 -0.5
eS 40 08.40
GLB 0.85 331 iP 39 55.58 -1.6
eS 40 07.46
RAGM 0.91 251 iP 39 57.15 -1.0
KAIM 1.07 224 eP 39 59.58 -1.2
SGAM 1.13 261 iP 40 00.97 -0.9
eS 40 17.43

CVA 1.39 265 iP 40 05.25 -0.9
KLU 1.65 300 eP 40 07.73 -2.2
VLZ 1.71 286 eP 40 10.09 -0.6
HIN 1.78 282 iP 40 10.27 -1.6
VZW 1.80 283 eP 40 10.27 -1.9
eS 40 35.57

YKU 1.98 124 iPd 40 15.80 1.2
GLI 2.04 277 eP 40 14.37 -1.2
TOA 2.10 314 iPd 40 15.70 -0.7
MID 2.13 235 iPd 40 15.20 -1.6
SDG 2.21 327 eP 40 17.60 -0.5
KNIM 2.40 264 iP 40 18.31 -2.4

SCM 2.40 300 eP 40 20.60 -0.3
PAX 2.57 333 eP 40 23.47 0.2
HYT 2.67 85 P 40 25.30 0.6
KNK 2.77 287 eP 40 25.55 -0.5
SML 2.83 295 eP 40 27.00 0.1

GHO 3.08 293 eP 40 29.83 -0.6
PLRM 3.13 289 eP 40 30.60 -0.4
PMR 3.13 289 iPd 40 30.30 -0.7
PMS 3.27 282 eP 40 32.60 -0.5
SEW 3.28 262 eP 40 30.06 -3.2

DWY 3.74 24 P 40 41.10 1.3
SUA 3.86 285 eP 40 42.49 0.8
RND 3.89 317 eP 40 42.18 0.3
CUT 3.90 299 eP 40 41.60 -0.4
SKT 4.33 291 eP 40 47.49 -0.7

CGLM 4.45 282 eP 40 47.91 -2.0
SPU 4.47 280 eP 40 47.95 -2.2
NCG 4.53 283 eP 40 48.99 -2.1
CKL 4.61 280 eP 40 49.72 -2.4
RDT 4.66 273 eP 40 49.29 -3.6

FBA 4.77 334 iPd 40 55.30 1.0
SIT 5.38 129 iPd 41 02.10 -0.9
SVW 6.20 279 eP 41 12.40 -2.2
42 obs. associated

* OCT 29, 1990 01h 05m 00.47 ± 0.37s
15.271 S ± 17.9km 173.666 W ± 14.3km
DEPTH = 42.3km (3 depth phases)
4.9mb (9 obs.) 5.4Msz (1 obs.)

TONGA ISLANDS (173)

SGE 8.39 253 eP 07 13.00 10.4X
DZM 20.01 247 iPd 09 34.10 1.4
CAN 38.91 232 eP 12 23.90 -0.1

BWA 39.04 234 eP 12 23.00 -2.1
WB5 49.60 257 eP 13 50.00 0.1
ASPA 49.91 252 eP 13 52.10 -0.2
0.7s 14.10nm 5.1mb
Z 23s 0.30um 4.2Msz

FORR 55.21 243 eP 14 31.00 -0.7
0.4s 15.00nm 5.4mb

BCH 71.39 44 eP 16 18.10 -0.4
PRI 71.55 43 eP 16 21.50 2.0
MHC 71.63 41 eP 16 19.50 -0.4

ARN 71.70 42 eP 16 20.00 -0.2
ABL 71.78 45 eP 16 20.00 -1.0
FHC 72.32 37 eP 16 24.40 0.6

FRI 72.67 43 eP 16 25.50 -0.4
CMB 72.84 41 eP 16 26.70 -0.3
WDC 73.04 38 eP 16 28.00 0.0

ORV 73.04 40 eP 16 27.80 -0.3
MIN 73.46 39 eP 16 30.20 -0.4
LBFM 73.90 38 iP 16 32.70 -0.6

SPA 74.83 180 iPc 16 38.90 0.7
0.8s 12.92nm 4.9mb
Z 20s 1.80um 5.4Msz

TNP 74.92 43 iPd 16 38.50 -0.8
0.8s 9.80nm 4.8mb

DUG 78.94 43 eP 17 01.30 -0.3
PNT 80.04 33 eP 17 07.00 -0.1
DAU 80.08 43 eP 16 50.50 -17.4X

ALO 80.91 50 eP 17 12.00 -0.3

ANMO	1.0s	5.00nm	4.4mb	ORX	1.28	36 P	13 23.55	-0.7	NNA	39.49	139 eP	28 52.00	0.7	
FBA	80.92	50 eP	17 12.40	0.1		S	13 39.25			0.8s	9.70nm	31 18.50	4.7mb	
	82.32	11 iP	17 18.10	-0.6	LMR	1.30	193 Pg	13 25.20	0.7	YKA	44.39	352 e(S)	29 28.60	-2.0
	0.8s	25.00nm	5.3mb			Sg	13 41.20			0.8s	28.10nm	30 07.00	5.1mb	
BW06	82.35	42 iP	17 19.20	-0.4	PGF	2.55	143 Pn	13 43.20	0.5	ARE	46.25	138 eP	29 47.00	0.8
	0.8s	4.61nm	4.6mb			Sn	14 13.00		ZOBO	48.32	134 P	30 02.70	-0.1	
IMA	82.47	8 e(P)	17 20.00	0.4	BGF	3.46	306 Pn	13 54.00	-1.4		0.9s	16.22nm	30 22.00	4.9mb
GOL	03.75	46 eP	17 27.30	0.4		S.D. = 0.5	on 28 of 28 obs.				i	30 05.00	0.8	
	0.9s	4.73nm	4.6mb							LPB	48.53	134 P	30 05.00	0.8
GLD	83.88	46 eP	17 28.90	1.4						CNCB	48.80	135 iPd	30 07.00	0.5
	0.8s	14.71nm	5.1mb							CCH	50.45	133 P	30 19.00	0.2
		eP	17 42.30	45km							i	30 38.00		
KSP	143.62	349 ePKP	24 32.00	-0.4						TOA	52.84	336 iPc	30 36.60	0.7
PRU	144.74	351 ePKP	24 36.00	1.7	MRX	1.08	45 iP	21 50.00	0.0		0.6s	40.00nm	30 38.00	-0.8
GRF	145.44	354 ePKP	24 36.70	1.2		iS	22 07.00		SIV	53.17	128 iPd	30 38.00	-0.8	
KHC	145.72	352 PKP	24 38.00	1.9X	COLM	1.61	279 iP	21 54.80	-1.8		i	30 57.00		
ZST	145.99	347 ePKP	24 39.30	2.8X	CRX	2.25	78 iP	22 06.50	1.3	PMR	53.75	334 iPc	30 41.90	-0.5
SRO	146.07	345 PKP	24 46.30	9.7X		(S)	22 27.00			0.6s	35.71nm	30 50.50	-1.2	
		e	24 49.60		III	2.47	103 iP	22 07.50	-0.6	FBA	55.02	338 iPc	30 50.50	-1.2
CDF	146.94	359 ePKP	24 42.10	4.0X		(S)	22 27.00			i	31 51.00			
	0.8s	5.35nm			UNM	2.70	81 (P)	22 12.00	0.8	SVW	56.31	332 iPc	31 00.00	-1.2
HAU	147.36	360 ePKP	24 42.40	3.7X		(S)	22 59.00			0.7s	16.80nm	31 05.00	-1.8	
	0.7s	6.60nm			ACX	2.90	135 iPc	22 11.50	-2.2	TTA	57.22	334 ePc	31 05.00	-1.8
LOR	148.03	3 ePKP	24 43.60	3.8X		(S)	22 49.00			0.7s	15.26nm	31 09.30	-1.8	
	0.8s	5.35nm			IIA	3.17	86 (P)	22 20.60	3.2X	IMA	57.72	338 iPc	31 09.30	-1.8
SSF	148.22	4 ePKP	24 42.80	2.7X	PPM	3.20	87 iP	22 19.00	0.7		0.7s	5.45nm	32 02.90	4.7mb
	0.8s	10.75nm				(S)	22 45.00		MBC	58.03	355 ePc	31 11.70	-1.2	
LPL	149.85	359 ePKP	24 49.70	6.7X	IIIT	3.50	88 iP	22 20.50	-1.7		0.7s	36.00nm	32 04.00	232kmX
	0.8s	4.05nm				(S)	22 58.00		PEL	59.81	150 ePc	31 26.00	0.2	
LPG	149.87	359 ePKP	24 50.10	7.0X	IIISM	4.38	89 (P)	22 07.50	-26.5X	LNV	60.14	151 iPc	31 27.00	-0.1
	0.8s	6.05nm				(S)	23 05.00		CHCH	60.48	150 eP	31 30.00	-0.3	
		S.D. = 0.9	on 32 of 43 obs.		LVVM	5.31	80 iP	22 47.00	0.2	ANM	61.69	334 eP	31 38.50	0.3
					OXX	5.35	109 iP	22 48.50	0.8	PPD	64.15	127 eP	31 53.80	-1.2
						(S)	23 48.00		ADK	65.91	319 iPc	32 04.60	-1.2	
					MZX	5.92	317 (P)	22 55.00	-0.2		0.7s	160.40nm	32 09.20	-0.4
					EVV	6.33	93 (P)	23 03.00	2.1	SOB1	66.41	109 eP	32 09.20	-0.4
					VNM	6.99	10 iP	23 15.00	5.0X		e	32 28.60		
					MEO	16.07	10 iPc	25 09.30	-0.7	VAO	68.01	125 eP	32 20.80	1.2
					ALO	16.42	347 iPc	25 17.30	2.7X		e	32 39.10		
						1.0s	38.25nm	4.6mb	PDCR	69.41	112 eP	32 24.40	-3.8X	
					ANMO	16.42	347 P	25 17.70	3.1X		e	32 48.00		
						1.5s	138.89nm	5.0mb	DAG	70.14	14 iPd	32 29.90	-1.9	
					SJO	17.48	16 iP	25 27.50	0.0		0.7s	12.33nm	33 45.40	0.4
					TUL	17.77	17 iPc	25 30.50	-0.5	GRR	83.19	41 eP	33 45.40	0.4
						0.6s	189.20nm	5.5mb		0.8s	16.10nm	33 44.70	-0.4	
					Z	19s	0.50um	5.4msz	LPF	83.20	42 eP	33 44.70	-0.4	
						e	25 40.30			0.8s	16.10nm	33 45.50	0.0	
					PLM	19.56	320 eP	25 52.00	0.7	FLN	83.29	41 eP	33 45.50	0.0
					PEC	20.11	321 P	25 57.00	0.2		0.8s	21.50nm	33 58.50	0.1
					GOL	20.89	353 P	26 05.00	0.0		Z	20s	0.28um	4.6msz
						1.0s	72.50nm	5.0mb	AVE	83.52	57 iP	33 48.20	1.2	
					GSC	20.91	324 eP	26 06.00	1.0	NB2	84.25	27 P	33 50.60	0.4
					GLD	20.92	353 P	26 05.70	0.5		0.8s	3.30nm	33 56.60	0.0
						1.2s	80.81nm	4.9mb	LFF	85.48	44 eP	33 56.60	0.0	
					SBB	21.06	321 eP	26 07.00	0.5		0.8s	24.20nm	33 56.80	0.1
					CLC	21.73	324 eP	26 13.00	-0.1	LSF	85.49	43 eP	33 56.80	0.1
					ABL	22.01	319 P	26 16.80	0.7		1.0s	30.00nm	33 58.50	0.1
					ISA	22.12	322 eP	26 18.00	1.0	RJF	85.85	43 eP	33 58.50	0.1
					BCH	22.76	319 P	26 24.40	1.1		0.8s	13.45nm	33 58.50	0.1
					TNP	23.23	328 P	26 29.20	1.3		Z	20s	0.22um	4.6msz
						0.8s	25.98nm	4.6mb	LPO	85.87	44 eP	33 58.90	0.3	
					PHAM	23.38	320 P	26 31.00	1.8		1.0s	30.00nm	33 58.90	0.3
					PR1	23.75	320 eP	26 34.70	1.8	TCF	85.91	42 eP	33 58.90	-0.3
					FRI	23.76	323 eP	26 33.50	0.7		0.8s	14.80nm	33 58.90	-0.3
					LLA	24.23	320 eP	26 38.00	0.6	EPF	85.93	46 eP	33 58.90	-0.4
					CMB	24.87	324 eP	26 44.10	0.6		1.0s	26.00nm	33 58.90	-0.4
					ARN	25.07	321 P	26 46.50	1.2	SOD	86.05	18 iP	33 58.90	-0.7
					MHC	25.13	321 eP	26 47.00	1.0	MAF	86.17	42 eP	33 59.60	-0.4
					BLA	26.24	42 ePc	26 50.30	2.2		1.0s	16.00nm	33 59.60	-0.4
						0.5s	45.77nm	5.3mb	BGF	86.21	42 eP	33 59.90	-0.3	
					ORV	26.56	325 eP	27 00.80	1.8		1.0s	20.00nm	33 59.90	-0.3
					WDC	27.85	325 eP	27 09.30	-1.4	SSF	86.42	41 eP	34 00.90	-0.3
					LBFM	28.05	327 P	27 12.70	-0.1		0.8s	12.00nm	34 00.90	-0.3
					NEW	31.72	341 P	27 43.40	-1.6	AVF	86.44	42 eP	34 00.90	-0.8
						0.7s	19.00nm	4.9mb		1.0s	8.00nm	34 01.70	-0.2	
					LON	32.15	334 P	27 48.50	-0.3	LOR	86.56	41 eP	34 01.70	-0.2
					TBR	32.44	41 P	27 51.00	-0.3		0.8s	18.15nm	34 02.30	-0.6
						pP	28 10.00	81kmX		Z	20s	0.10um	4.2msz	
					BMW	32.54	332 P	27 52.00	-0.2	LBF	86.75	41 eP	34 02.30	-0.6
					PNT	33.45	339 eP	28 00.00	0.0		0.8s	10.75nm	34 02.30	-0.6
						0.8s	18.00nm	5.0mb	SMF	86.80	42 eP	34 02.10	-1.0	
					EDM	35.33	348 iPc	28 15.20	-0.8		0.8s	5.35nm	34 02.10	-1.0
					FFC	35.72	0 iPc	28 18.20	-1.0	SUF	89.03	21 eP	34 12.60	-0.8
						0.8s	56.00nm	5.5mb			0.4s	5.60nm	34 12.60	-0.8

29d 02h

NUR 89.96 23 eP 34 12.60 -5.2X
 LKO 92.93 79 P 34 32.02 -0.3
 0.8s 12.50nm 5.3mb
 WB5 127.04 259 ePKP 40 23.90 0.4
 QUE 130.01 13 ePKP 40 30.30 1.2
 GUN 132.80 350 PKP 40 34.80 0.1
 GKN 132.89 352 PKP 40 34.60 0.0
 KKN 133.01 351 PKP 40 35.20 0.3
 PKI 133.21 351 PKP 40 36.00 0.6
 DMN 133.22 351 PKP 40 36.40 1.1
 HYB 143.87 359 iPKPd 40 51.40 -3.3X
 0.8s 38.50nm
 GBA 147.66 1 PKP 41 04.00 3.1X
 PSI 150.23 314 ePKPc 41 10.70 5.7X
 S.D. = 1.0 on 96 of 106 obs.

* OCT 29, 1990 02h 51m 20.39s
 59.897 N 152.761 W
 DEPTH = 88.2km
 SOUTHERN ALASKA (2)
 <AGS-P>

OPT 0.34 224 iP 51 33.44 -0.6
 RED 0.52 359 iP 51 34.70 -0.8
 0.5s 45.51
 RSO 0.57 0 iP 51 35.36 -0.6
 HOM 0.61 112 iP 51 35.81 -0.3
 0.5s 47.14
 AUE 0.62 210 eP 51 35.45 -0.8
 0.5s 46.27
 AUM 0.64 213 eP 51 35.86 -0.6
 AUI 0.66 211 eP 51 35.74 -0.8
 XLV 0.69 130 eP 51 35.97 -0.9
 0.5s 49.04
 RDT 0.70 14 iP 51 36.33 -0.8
 PDB 0.73 262 iP 51 36.58 -0.7
 0.5s 48.87
 >NNL 0.75 78 iP 51 37.78 0.3
 CNPM 0.86 115 iP 51 37.90 -0.8
 0.5s 51.78
 BRK 0.96 97 eP 51 38.92 -0.9
 CDD 1.07 205 iP 51 39.86 -1.3
 MCNL 1.07 229 iP 51 40.03 -1.1
 0.5s 54.62
 NKA 1.14 41 iP 51 42.85 1.0
 KKL 1.32 9 iP 51 43.52 -0.8
 SPU 1.34 15 iP 51 43.57 -0.8
 0.5s 52.01.91
 BGL 1.38 7 iP 51 44.44 -0.6
 CRP 1.41 12 iP 51 44.78 -0.7
 SLKM 1.41 63 eP 51 44.29 -1.0
 CGLM 1.46 14 iP 51 45.37 -0.7
 NCG 1.54 11 iP 51 46.42 -0.7
 SEW 1.68 81 eP 51 47.37 -1.4
 SUA 1.86 31 eP 51 50.62 -0.7
 SVW 1.87 312 iPc 51 49.90 -1.4
 PMS 2.08 48 eP 51 53.23 -1.0
 KDC 2.16 176 iPd 51 52.90 -2.3
 SKT 2.18 16 iP 51 54.27 -1.2
 PWA 2.26 38 eP 51 55.89 -0.6
 PLRM 2.46 45 eP 51 57.42 -1.9
 PMR 2.46 45 iPc 51 57.50 -1.8
 KNIM 2.56 78 eP 51 57.66 -3.0
 KNK 2.61 52 eP 51 59.82 -1.5
 GHO 2.66 43 eP 52 00.17 -1.9
 CUT 2.79 25 eP 52 02.70 -1.1
 SML 2.89 47 iP 52 03.25 -2.0
 GLI 2.98 68 eP 52 03.61 -2.8
 VZW 3.29 67 eP 52 07.55 -3.2
 SCM 3.29 51 eP 52 08.64 -2.2
 VLZ 3.41 66 eP 52 09.40 -2.9
 HUR 3.44 25 eP 52 11.46 -1.3
 KLU 3.72 62 eP 52 13.87 -2.9
 TOA 3.90 53 iPd 52 17.00 -2.2
 RND 3.98 26 eP 52 18.99 -1.4
 PAX 4.66 45 eP 52 27.48 -2.4
 GLB 4.67 67 eP 52 26.22 -3.6
 TGL 5.01 76 eP 52 31.35 -3.3
 WRH 5.08 23 eP 52 32.90 -2.7
 BALM 5.28 73 eP 52 35.29 -3.2
 CCB 5.30 24 eP 52 35.55 -3.0
 FBA 5.53 23 iPc 52 39.20 -2.5
 IMA 6.21 357 iPc 52 49.50 -1.8
 53 obs. associated

* OCT 29, 1990 03h 17m 37.23 ± 1.99s

32.574 S ± 13.5km 70.122 W ± 16.0km
 DEPTH = 127.9 ± 24.8 km
 CHILE-ARGENTINA BORDER REGION (127)

JACH 0.41 255 iPd 17 56.00 0.0
 0.5s 18 09.00
 PEL 0.74 220 iPd 17 57.50 -0.5
 0.5s 18 12.00
 ROCH 0.85 242 iPd 17 59.20 0.1
 0.5s 18 14.80
 SAN 0.99 207 iPc 18 00.40 0.3
 0.5s 18 16.70
 PCH 1.09 197 iPd 18 01.40 0.1
 0.5s 18 19.00
 TACH 1.28 212 iPc 18 03.00 -0.1
 0.5s 18 21.00
 CHCH 1.43 198 iPc 18 04.90 0.1
 0.5s 18 25.40
 LCCH 1.51 233 iPd 18 06.00 0.3
 0.5s 18 27.50
 RTCB 1.56 46 iPc 18 06.50 0.1
 0.5s 18 27.80
 LNV 1.75 218 iPc 18 08.00 -0.4
 0.5s 18 30.50
 RTLL 1.87 49 iPd 18 09.90 -0.1
 0.5s 18 33.00
 S.D. = 0.3 on 11 of 11 obs.

* OCT 29, 1990 05h 23m 52.11 ± 6.18s
 44.545 N ± 47.2km 15.306 E ± 21.2km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)
 MD 2.4 (LJU), 2.3 (TRI).

VBY 0.96 354 ePg 24 10.40 0.0
 0.5s 24 19.80
 CEY 1.38 330 eP 24 17.50 0.1
 0.5s 24 33.50
 PTJ 1.41 16 ePg 24 17.90 0.0
 0.5s 24 33.00
 LJU 1.62 330 eP 24 26.50 5.8X
 0.5s 24 39.00
 TRI 1.64 316 iPg 24 21.00 0.0
 0.5s 24 40.70
 VOY 1.83 325 ePn 24 23.80 -0.1
 0.5s 24 46.60
 S.D. = 0.1 on 5 of 6 obs.

* OCT 29, 1990 05h 36m 39.30 ± 0.73s
 16.229 N ± 13.7km 61.417 W ± 9.5km
 DEPTH = 33.0km (normol)
 LEEWARD ISLANDS (92)
 ML 1.6 (FDF).

SEG 0.19 334 iPc 36 45.81 0.0
 0.5s 36 47.60
 SFG 0.21 83 ePd 36 45.93 -0.1
 0.5s 36 46.00
 DOG 0.27 225 ePd 36 46.00 0.0
 0.5s 36 51.00
 PAG 0.32 232 eP 36 47.40 0.0
 0.5s 36 51.70
 DEG 0.35 76 ePd 36 47.80 0.1
 0.5s 36 52.90
 S.D. = 0.1 on 5 of 5 obs.

* OCT 29, 1990 05h 47m 27.98 ± 0.65s
 63.653 S ± 11.3km 172.650 E ± 14.6km
 DEPTH = 10.0km (geophysicist)
 5.2mb (3 obs.) 4.9Msz (4 obs.)

BALLENY ISLANDS REGION (702)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 29C
 Centroid Location:
 Origin Time 05:47:34.5 0.5
 Lat 63.725 S Lon 171.74E 0.07
 Dep 15.0 FIX Half-duration 2.1
 Moment Tensor: Scale 10¹⁷ Nm
 Mrr=0.02 0.08 Mtt=1.79 0.12
 Mff=-1.81 0.08 Mrt=0.00 0.00
 Mrf=0.00 0.00 Mtf=-0.15 0.07
 Principal Axes:
 T Vol=1.80 Plg=0 Azm=182
 N 0.02 90 180
 P -1.82 0 92
 Best Double Couple: Mo=1.8*10¹⁷
 NP1:Strike=227 Dip=90 Slip=-180

NP2: 317 90

DRV 13.94 243 eP 50 48.40 0.9
 SBA 14.39 185 iPd 50 53.00 -0.3
 SNZO 22.41 4 eP 52 28.00 0.3
 0.5s 56 28.00
 SPA 26.50 180 iPc 53 06.70 -0.3
 1.4s 100.00nm 5.3mb
 Z 22s 9.79um 5.3Msz
 ASPA 47.45 309 eP 55 56.30 -8.1X
 1.0s 6.80nm 4.7mb
 Z 20s 0.90um 4.7Msz
 WB5 50.79 311 eP 56 24.50 -5.6X
 ARE 86.26 120 eP 00 12.00 0.8
 CNCB 87.27 123 P 00 17.00 0.5
 CCH 87.42 125 P 00 23.00 6.1X
 LPB 87.48 123 eP 00 11.00 -6.3X
 Z 20s 0.71um 5.1Msz
 LR 28 40.00
 ZOBO 87.71 123 P 00 18.00 -0.6
 1.1s 29.00nm 5.5mb
 Z 22s 0.40um 4.8Msz
 LR 28 56.00
 SIV 90.51 129 P 00 32.60 1.4
 MBC 145.98 23 ePKP 07 06.00 -0.6
 1.5s 49.00nm
 OHR 152.06 230 ePKP 07 15.20 -1.9
 S.D. = 1.1 on 10 of 14 obs.

* OCT 29, 1990 06h 19m 11.21 ± 0.49s
 63.490 S ± 10.6km 172.361 E ± 12.1km
 DEPTH = 10.0km (geophysicist)
 5.2mb (3 obs.) 5.4Msz (3 obs.)
 BALLENY ISLANDS REGION (702)

DRV 13.90 243 eP 22 31.60 1.4
 SBA 14.54 185 iP 22 34.90 -3.6X
 0.5s 22 45.10
 SPA 26.66 180 iPc 24 50.10 -1.7
 1.1s 72.62nm 5.3mb
 Z 20s 12.52um 5.5Msz
 CAN 31.65 322 eP 25 38.00 1.6
 BWA 32.66 322 eP 25 43.80 -1.4
 BRS 38.29 331 iP 26 33.00 -0.2
 MAW 39.82 214 iP 26 44.00 -1.5
 Z 14s 10.00um 5.8MszX
 DZM 41.59 352 iPd 26 59.80 -0.8
 ASPA 47.24 309 iPc 27 43.70 -2.3X
 1.2s 10.10nm 4.8mb
 Z 21s 1.00um 5.0Msz
 WB5 50.59 311 eP 28 09.00 -2.8X
 ARE 86.45 120 eP 31 55.00 -0.4
 CNCB 87.47 124 P 32 01.50 0.8
 CCH 87.62 125 P 32 02.50 1.4
 LPB 87.68 123 P 32 02.00 0.5
 ZOBO 87.91 123 P 32 03.00 0.2
 1.1s 27.84nm 5.5mb
 SIV 90.72 129 P 32 15.60 0.2
 MBC 145.89 23 ePKP 38 48.50 -1.2
 1.2s 19.00nm
 IZM 147.35 236 ePKP 38 53.00 -0.2
 TIO 147.42 181 iPKP 39 02.00 8.3X
 EZN 148.95 237 ePKP 38 57.00 1.4
 SKO 152.61 232 ePKP 39 11.60 10.6X
 Z 19s 1.22um 5.7Msz
 N 19s 1.08um
 LR 39 39.00
 S.D. = 1.2 on 16 of 21 obs.

* OCT 29, 1990 06h 42m 41.71 ± 0.51s
 55.981 S ± 23.6km 143.243 W ± 7.8km
 DEPTH = 10.0km (geophysicist)
 5.3mb (4 obs.) 5.2Msz (3 obs.)
 SOUTH PACIFIC CORDILLERA (691)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 21C
 Centroid Location:
 Origin Time 06:42:50.0 0.6
 Lat 55.96S Lon 143.20W FIX
 Dep 15.0 FIX Half-duration 2.7
 Moment Tensor: Scale 10¹⁷ Nm
 Mrr=0.36 0.17 Mtt=0.98 0.21
 Mff=-1.34 0.12 Mrt=0.00 0.00
 Mrf=0.00 0.00 Mtf=1.34 0.19
 Principal Axes:
 T Vol=1.59 Plg=0 Azm=155

N	0.36	90	180	BGL	1.34	3 eP	49 36.42	-0.7	CSI	3.76	19 P	17 14.30	2.3	
P	-1.95	0	65	CRP	1.35	8 eP	49 36.84	-0.5	MMN	3.80	16 P	17 13.70	1.2	
Best Double Couple: Mo=1.8+10+17				CGLM	1.41	11 iP	49 37.27	-0.7	MGR	3.96	10 P	17 16.90	2.1	
NP1: Strike=200 Dip=90 Slip=-180				PMS	1.98	47 iP	49 44.89	-0.7	ORI	4.07	20 P	17 17.50	1.1	
NP2: 290 90 0				SKT	2.11	13 eP	49 46.21	-1.2	SGO	4.35	6 P	17 22.00	1.7	
SPA	34.20	180 iPc	49 28.60	-0.5	KNIM	2.44	78 iP	49 48.90	-3.0	LCI	4.84	31 P	17 26.90	-0.4
	1.2s	45.77nm		5.3mb	MTU	2.46	87 eP	49 50.08	-2.1			eSn	18 27.00	
Z	18s	4.00um		5.2MsZ	KNK	2.50	52 iP	49 50.87	-1.9	DUI	5.42	358 P	17 37.50	1.9
AIA	37.30	137 eP	49 55.60	0.6	CUT	2.72	23 eP	49 54.14	-1.5	SDI	5.51	353 P	17 36.50	-0.3
CNB	49.26	265 eP	51 33.00	0.8	VZW	3.17	67 eP	49 58.91	-3.1	IGT	5.56	52 iPc	17 35.64	-1.8
CAN	49.46	265 eP	51 34.80	1.1	KLU	3.61	61 eP	50 04.96	-3.2			iS	18 39.53	
TOO	49.79	260 eP	51 38.00	1.8	30 obs. associated				SRN	5.56	48 ePn	17 36.40	-1.1	
BWA	50.44	265 eP	51 40.80	-0.4	OCT 29, 1990 07h 20m 21.89± 0.84s				VLO	5.68	40 ePn	17 43.80	4.7X	
LNV	52.73	97 ePd	51 58.50	0.0	34.019 N ± 9.5km 25.482 E ± 7.2km				RDP	5.72	345 P	17 40.50	0.7	
TACH	53.22	97 eP	52 03.00	0.8	DEPTH = 33.0km (normol)				RMP	5.78	345 P	17 41.00	0.5	
BRS	53.29	275 iP	52 04.00	1.2	CRETE (370)				AZI	5.83	351 P	17 42.00	0.8	
SAN	53.53	97 eP	52 05.00	0.6	MD 4.0 (ATH).				TPE	5.84	44 ePn	17 39.00	-2.4	
PEL	53.74	97 iPc	52 06.00	0.0	NPS	1.25	5 ePn	20 42.10	-1.0	ITM	5.91	79 eP	17 43.20	0.8
CMS	54.07	266 eP	52 09.00	0.6	VAM	1.74	323 ePb	20 53.50	3.2X	BERA	6.09	41 iPnc	17 43.90	-1.0
ADE	55.43	257 e(P)	52 13.20	-5.2X	APE	3.04	1 ePn	21 08.00	-0.9	EVR	6.27	63 eP	17 58.10	10.5X
OIS	66.06	269 eP	53 30.00	-0.7	VLI	3.40	323 ePn	21 14.00	0.1	MNS	6.33	347 P	17 50.00	1.6
ARE	66.31	84 eP	53 31.00	-1.7	SMG	3.84	16 ePn	21 22.00	1.9	KBN	6.52	46 ePn	17 50.00	-0.9
ASPA	66.78	262 iPc	53 33.20	-2.2	KSL	3.96	57 ePn	21 23.50	1.6	TIR	6.52	37 ePn	17 48.00	-3.0X
	1.0s	23.30nm		5.3mb	ELL	4.53	52 eP	21 29.50	-0.5	LACI	6.67	35 ePn	17 53.70	0.6
NNA	66.99	77 eP	53 38.00	1.2	IZM	4.60	18 ePn	21 22.20	-8.8X	VLI	6.68	83 eP	17 53.50	0.2
	1.0s	12.00nm		5.0mb	CSS	6.55	80 eP	21 58.00	-0.4	AGG	6.69	63 ePc	17 53.24	-0.2
Z	20s	0.89um		5.0MsZ	KOT	6.76	125 ePn	22 02.50	1.2			eS	19 06.88	
CNCB	68.00	88 P	53 41.00	-2.7	ZNT	8.21	100 eP	22 20.00	-1.6	MAO	6.75	337 P	17 55.00	0.8
		i	53 45.00				eS	23 41.00		OHR	6.83	43 iPn	17 53.30	-2.2
LPB	68.15	87 eP	53 41.00	-3.5X	JVI	8.55	101 eP	22 25.00	-1.3	HCY	6.88	24 ePn	17 56.00	0.0
Z	22s	1.85um		5.3MsZ	MBH	9.04	115 eP	22 34.00	0.9			eSn	19 08.50	
		LR	00 30.00		ATN	9.10	300 P	22 33.70	-0.2	SDA	6.89	32 ePn	17 58.30	2.2
ZOBO	68.35	87 eP	53 36.00	-10.0X	MEU	9.13	293 P	22 34.60	0.2	KZN	6.91	52 eP	17 57.50	1.0
	1.6s	112.78nm		5.8mb			eSn	24 03.10		FNA	6.95	47 ePd	17 54.88	-2.2
		i	53 46.00				eSn	24 06.80				eS	19 11.72	
		LR	00 38.00		S.D. = 1.2 on 13 of 15 obs.				ASS	7.00	348 P	17 57.70	-0.1	
CCH	68.57	89 P	53 49.00	2.0	& OCT 29, 1990 07h 20m 27.43s				PHP	7.06	38 ePn	17 56.40	-2.2	
WB5	69.53	265 eP	53 50.90	-1.6	66.065 N 150.177 W				PUK	7.08	33 ePn	17 55.30	-3.5X	
SIV	72.54	93 P	54 10.80	0.1	DEPTH = 3.4km				TTG	7.14	28 ePn	17 58.00	-1.6	
MTN	77.03	266 eP	54 35.70	-0.7	ALASKA (676)						eSn	19 13.00		
PDCR	87.45	109 eP	55 21.70	-8.8X	<AGS-P>				LIT	7.27	56 iPc	18 01.38	-0.2	
BCAO	126.57	157 iPKPc	01 49.90	3.2X	IMA	1.43	272 iPd	20 53.70	-0.6	BRY	7.30	23 ePn	17 59.50	-2.5
	0.7s	6.00nm									eSn	19 15.00		
		i	01 58.70				iPd	20 53.90		KKS	7.34	36 ePn	18 02.60	0.1
LZH	131.47	275 e(PKP)	02 04.00	8.4X			iPnd	21 13.90		NKY	7.37	26 ePn	18 00.00	-3.0
Z	23s	0.89um		5.4MsZ			Sn	21 13.90				eSn	19 16.00	
E	15s	0.40um					Sg	21 14.90		ARV	7.38	350 P	18 04.60	1.6
		PP	04 39.50		FBA	1.54	139 iPd	20 54.90	-0.8	BCI	7.42	33 ePn	18 05.00	1.5
PKI	135.27	251 Pd	00 00.00	-5.4X	NEA	1.56	162 eP	20 56.90	0.8	NEO	7.44	63 eP	18 03.20	-0.7
TOL	148.83	104 ePKP	02 32.00	5.8X	GLM	1.59	132 eP	20 55.51	-1.0	PVY	7.56	31 ePn	18 04.30	-1.4
S.D. = 1.3 on 21 of 29 obs.							eS	21 17.87				eSn	19 25.00	
& OCT 29, 1990 06h 49m 13.39s					CCB	1.74	144 eP	20 57.63	-1.0	CRE	7.68	345 P	18 07.00	-0.3
59.932 N 152.545 W					WRH	1.83	150 eP	21 00.44	0.5	PGF	7.68	327 Pn	18 06.80	-0.6
DEPTH = 79.8km					FYU	2.06	74 eP	21 03.02	-0.2			Sn	19 30.00	
SOUTHERN ALASKA (2)					HDA	2.15	139 eP	21 03.32	-1.3	IVA	7.76	30 ePn	18 07.00	-1.5
<AGS-P>					RND	2.73	167 eP	21 13.12	0.1			eSn	19 28.00	
					9 obs. associated				SKO	7.78	40 iPn	18 10.50	1.9	
											iSg	19 26.00		
OPT	0.45	231 iP	49 26.23	-0.7	OCT 29, 1990 08h 16m 14.12± 0.65s				VAM	7.78	93 eP	18 09.70	1.0	
		eS	49 37.06		36.232 N ± 4.9km 14.671 E ± 3.3km				PLE	7.97	26 ePn	18 10.00	-1.3	
RED	0.50	347 eP	49 26.96	-0.5	DEPTH = 23.9 ± 4.5 km						eSn	19 32.00		
HDM	0.53	121 eP	49 27.16	-0.4	4.5mb (6 obs.)				SFI	7.98	345 P	18 12.40	1.0	
		eS	49 37.95		SICILY (398)				VAY	7.99	48 iPn	18 09.20	-2.4	
RSO	0.54	349 iP	49 27.51	-0.4	PZI	0.82	14 P	16 30.63	1.0	PLG	8.04	56 eP	18 11.50	-0.9
XLV	0.64	139 eP	49 27.55	-1.0	MEU	0.89	13 P	16 31.30	0.4	KNT	8.10	50 ePc	18 10.96	-2.2
NNL	0.64	79 iP	49 28.84	0.2	FAI	1.31	323 Pd	16 37.50	0.5			eS	19 37.92	
RDT	0.65	6 iP	49 28.11	-0.7			eSn	17 03.50		PII	8.13	338 P	18 14.50	1.0
		eS	49 39.72		MCT	1.62	330 P	16 42.90	1.2	SOH	8.20	53 ePd	18 13.48	-1.1
AUE	0.71	217 eP	49 28.59	-0.8	MNO	1.70	1 P	16 44.80	2.0	OUR	8.39	58 ePc	18 19.04	1.9
AUH	0.73	219 eP	49 30.12	0.5			eSn	17 14.20		BDI	8.42	340 P	18 17.80	0.2
AUI	0.75	217 eP	49 29.03	-0.7	GIB	1.83	344 P	16 46.10	1.5	SRS	8.51	52 ePd	18 19.04	0.2
CNPM	0.78	121 eP	49 29.33	-0.8			eSn	17 17.50				eS	19 50.20	
		eS	49 42.39		ATN	2.03	18 P	16 49.40	2.0	KKB	8.63	47 iP	18 19.00	-1.5
PDB	0.84	261 iP	49 29.90	-0.9	CVT	2.09	314 P	16 47.60	-0.6	APE	8.77	81 eP	18 23.00	0.5
		eS	49 42.78		MSI	2.09	19 P	16 50.10	1.8	MMB	8.85	50 ePd	18 24.00	0.4
BRLK	0.85	101 eP	49 30.22	-0.8			eSn	17 20.50		NPS	8.95	93 eP	18 27.00	2.1
NKA	1.04	38 eP	49 33.95	0.8	PTS	2.23	286 P	16 49.10	-1.2	VTs	9.16	44 iPc	18 23.00	-4.9X
CDD	1.15	210 eP	49 33.14	-1.5	ERC	2.45	318 P	16 52.80	-0.7	VBY	9.27	3 e(P)	18 36.00	6.7X
MCNL	1.18	231 eP	49 33.52	-1.4			eSn	17 27.80		BOB	9.40	337 P	18 30.50	-0.7
		eS	49 49.25		LVI	2.56	314 P	16 53.60	-1.3	SBF	9.42	326 Pn	18 29.30	-2.2
CKL	1.27	5 iP	49 35.51	-0.7	CZI	3.20	21 P	17 04.60	0.6			Sn	20 09.60	
		eS	49 53.21		ROI	3.66	24 P	17 14.50	3.9X	LRN	9.53	52 eP	18 35.00	1.9
SPU	1.28	11 iP	49 35.47	-0.8	TDS	3.67	21 P	17 11.70	1.0	FRF	9.57	322 Pn	18 31.20	-2.2
		eS	49 52.65											
SLKM	1.30	63 eP	49 35.46	-1.0										

29d 08h

LRG	9.63	321	Pn	18	32.60	-1.7
PGB	9.68	46	eP	18	30.00	-5.1X
PTJ	9.71	5	eP	18	48.00	12.6X
VOY	9.81	357	e(P)	18	39.00	2.2
EZN	9.87	65	ePn	18	34.00	-3.6X
KDZ	9.96	54	eP	18	35.00	-3.9X
CTI	10.07	348	P	18	40.00	-0.4
DIM	10.24	52	eP	18	42.00	-0.6
MDI	10.24	340	P	18	42.50	-0.1
IZM	10.26	74	ePn	18	43.90	0.9
FVI	10.45	353	P	18	46.00	0.6
BNI	10.70	328	P	18	47.50	-1.5
BZS	10.74	27	ePc	18	49.00	-0.5
PVL	10.77	46	IPd	18	45.00	-4.9X
MFT	10.87	61	eP	18	49.50	-1.9
LPG	11.02	330	Pn	18	54.00	0.4
EDC	11.15	64	eP	18	55.00	-0.1
BNT	11.19	64	eP	18	54.00	-1.7
SOTA	11.28	348	i(P)	19	03.00	6.9X
	1.0s	41.90nm			5.6mb	X
WATA	11.33	349	i(P)	19	06.50	8.8X
KSL	12.05	86	eP	19	05.50	-1.8
ELL	12.28	83	eP	19	10.50	0.0
ALT	12.56	72	eP	19	17.00	2.8X
BCK	12.81	80	eP	19	20.00	2.4
EPF	12.96	306	Pn	19	14.60	-4.9X
BSF	12.98	336	Pn	19	21.60	1.9
LPO	13.28	314	Pn	19	22.00	-1.6
CDF	13.33	338	Pn	19	27.60	3.2X
AVF	13.52	325	Pn	19	26.80	0.1
PRU	13.75	360	eP	19	37.00	7.2X
			e	19	43.60	
KRA	14.34	14	eP	19	50.10	12.6X
PPCY	14.45	90	eP	19	41.00	1.9
MOX	14.58	352	eP	19	48.00	7.4X
BRG	14.65	358	i(P)	19	49.10	7.6X
	1.0s	14.00nm			4.4mb	
KSP	14.65	4	eP	19	45.50	3.9X
CLL	15.12	356	IP	19	53.30	5.6X
	1.6s	31.00nm			4.4mb	
			i	20	03.10	
CSS	15.24	89	eP	19	47.30	-2.1
ADI	17.20	95	eP	20	13.50	-0.9
RMN	17.61	103	eP	20	20.50	0.9
			eS	23	20.00	
MBH	18.12	105	eP	20	27.00	1.2
TIO	19.01	260	IP	20	37.00	0.1
NB2	24.92	356	P	21	35.20	-1.4
	0.7s	5.00nm			4.3mb	
LKO	32.32	220	P	22	43.36	-0.3
	0.4s	6.00nm			4.8mb	
KIC	34.65	216	P	23	04.00	0.2
LIC	34.90	216	P	23	06.50	0.6
GKN	58.68	77	P	26	13.40	1.1
DMN	59.23	77	P	26	17.20	0.9
KKN	59.29	76	P	26	17.40	0.8
PKI	59.49	77	P	26	18.40	0.3
GUN	59.70	76	P	26	20.20	0.6
GBA	60.18	95	P	26	27.00	4.5X
	0.9s	8.20nm			4.9mb	
KOD	62.12	98	eP	26	41.00	4.9X
BW06	86.37	322	IP	28	56.80	0.9
	1.2s	4.57nm			4.6mb	
S.D. = 1.4 on 110 of 136 obs.						
? OCT 29, 1990 08h 21m 09.59±4.11s						
36.689 N ±34.0km 14.602 E ±11.3km						
DEPTH = 10.0km (geophysicist)						
SICILY (398)						
MEU	0.49	33	P	21	19.20	-0.3
			eSg	21	29.50	
FAI	0.94	309	P	21	27.50	-0.1
			eSn	21	42.00	
MNO	1.24	3	P	21	33.70	0.9
			eSn	21	50.50	
GIB	1.38	341	P	21	34.00	-0.9
ATN	1.62	25	P	21	38.60	0.3
CVT	1.75	305	P	21	40.50	0.4
TDS	3.27	24	P	22	02.00	0.2
MGR	3.52	12	P	22	05.00	-0.5
S.D. = 0.7 on 8 of 8 obs.						
? OCT 29, 1990 08h 31m 17.29±4.67s						
36.624 N ±36.6km 14.624 E ±9.6km						

DEPTH = 10.0km (geophysicist)

SICILY (398)

MEU	0.54	27	Pc	31	27.90	-0.2
			eSg	31	37.10	
FAI	1.00	311	P	31	36.00	-0.2
MCT	1.28	322	P	31	41.90	0.8
MNO	1.31	2	P	31	42.00	0.4
			eSn	31	59.50	
GIB	1.44	341	P	31	42.80	-0.7
ATN	1.67	23	P	31	47.50	0.8
TDS	3.32	24	P	32	10.50	0.2
MGR	3.58	11	P	32	13.50	-0.5
SGO	3.96	8	P	32	19.00	-0.4
S.D. = 0.6 on 9 of 9 obs.						

OCT 29, 1990 08h 52m 40.18±0.45s

40.289 N ±6.8km 77.887 E ±8.4km

DEPTH = 33.0km (normal)

5.1mb (8 obs.) 3.9Msz (1 obs.)

KIRGHIZ-XINJIANG BORDER REGION (320)

NDI	11.59	183	eP	55	27.00	0.7
			eS	57	33.00	
GKN	13.46	153	P	55	50.66	-0.8
	0.6s	67.00nm			5.8mb	X
KKN	13.88	152	P	55	57.24	0.2
	0.5s	36.00nm			5.4mb	
DMN	13.99	153	P	55	58.16	-0.3
	0.6s	33.00nm			5.3mb	
GUN	14.00	149	P	55	58.66	-0.1
	0.4s	26.00nm			5.3mb	
PKI	14.13	152	P	56	00.30	-0.1
MAIO	14.98	260	eP	56	12.00	0.8
			eS	58	52.00	
LZH	20.80	93	eP	57	21.50	0.2
	1.5s	28.00nm			4.4mb	
Z	20s	0.49um			3.9Msz	
N	10s	0.29um				
E	11s	0.23um				

pP 57 26.50 18kmX

sP 57 29.00

PP 57 44.50

eS 01 16.00

Lg 04 22.00

POO 21.96 190 eP 57 38.50 5.6X

HYB 22.80 178 eP 57 48.00 6.8X

GBA 26.58 181 P 58 16.00 -1.2

SSE 36.04 91 eP 59 41.50 1.2

SUF 37.82 324 eP 59 55.00 0.1

NUR 38.16 320 eP 59 56.00 -1.8

SOD 38.82 331 eP 00 04.00 0.8

KEV 39.48 335 eP 00 09.00 0.3

NAO 44.96 320 P 00 52.30 -1.2

0.7s 2.90nm 4.3mb

MBC 63.22 5 eP 03 02.50 -4.4X

0.5s 7.00nm 5.0mb

BCAO 64.01 253 IPc 03 14.00 1.1

0.8s 15.00nm 5.1mb

FFC 85.36 360 eP 05 11.00 -3.9X

0.9s 13.00nm 5.1mb

S.D. = 0.9 on 16 of 20 obs.

% OCT 29, 1990 10h 02m 17.87±1.08s

39.108 N ±7.1km 27.600 E ±14.1km

DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.6 (ISK).

IZM	0.76	201	ePq	02	32.70	0.0
			eSg	02	43.40	
EZN	1.22	306	ePn	02	40.50	0.0
EDC	1.25	9	ePn	02	41.00	-0.2
BNT	1.27	11	ePn	02	41.50	0.0
KGT	1.36	350	IPn	02	43.00	0.2
S.D. = 0.2 on 5 of 5 obs.						

% OCT 29, 1990 10h 04m 46.93±1.20s

39.103 N ±8.0km 27.603 E ±15.8km

DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.1 (ISK).

IZM	0.75	201	ePq	05	01.70	0.0
			eSg	05	13.00	
EZN	1.22	307	ePn	05	10.00	0.3
EDC	1.26	9	ePn	05	10.00	-0.3

BNT 1.28 11 IPn 05 11.50 0.9

KGT 1.37 350 IPn 05 11.00 -1.0

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

* OCT 29, 1990 10h 07m 53.20±1.93s

15.527 S ±15.6km 167.430 E ±8.7km

DEPTH = 127.3 ±16.9 km

4.8mb (6 obs.)

VANUATU ISLANDS (186)

PVC	2.36	159	IP	08	32.00	0.0
			IS	09	02.00	
DZM	6.58	188	IPc	09	28.90	0.0
			iS	10	42.00	
BRS	18.02	227	IPc	11	58.50	1.4
RMO	20.54	235	IPd	12	23.60	0.1
COO	20.67	221	IPc	12	26.20	1.4
	0.7s	23.00nm			4.7mb	
CMS	25.32	227	eP	13	10.00	0.3
MNG	25.96	166	eP	13	13.70	-1.8
OIS	26.91	255	eP	13	24.00	-0.3
WB5	31.76	257	eP	14	06.10	-1.4
ASPA	32.55	250	IPd	14	13.40	-0.9
	0.4s	51.80nm			5.7mb	
KNA	37.20	264	eP	14	53.20	-0.7
FORR	39.01	240	eP	15	09.00	0.1
	0.4s	30.00nm			5.4mb	
WARB	39.41	248	eP	15	12.40	0.0
	0.3s	3.00nm			4.5mb	
MBL	45.40	255	eP	16	00.80	-0.1
	0.4s	10.00nm			4.9mb	
NANU	49.36	253	eP	16	31.00	-0.8
SPA	74.57	180	IPd	19	19.40	-0.3
	1.0s	6.00nm			4.3mb	
			e	19	50.00	
NB2	131.43	345	PKP	26	50.20	-1.6
	0.7s	2.10nm				
FLN	145.40	346	ePKP	27	16.10	-1.4
	0.6s	27.05nm				
LDF	145.47	345	ePKP	27	16.40	-1.2
	0.8s	26.85nm				
LOR	145.54	340	ePKP	27	17.20	-0.6
	0.8s	16.10nm				
MNS	145.55	326	PKP	27	35.40	17.4X
			eSg	27	40.50	
LBF	145.75	340	ePKP	27	18.30	0.1
	0.8s	22.85nm				
SSF	145.83	340	ePKP	27	18.10	-0.2
	0.6s	17.15nm				
GRR	145.84	346	ePKP	27	17.90	-0.3
	0.8s	29.55nm				
RMP	145.93	325	PKP	27	25.80	7.2X
			eSg	27	27.50	
RDP	145.96	325	PKP	27	26.30	7.5X
			eSg	27	28.80	
LPL	145.98	335	ePKP	27	19.50	0.6
	0.6s	7.20nm				
LPG	145.99	335	ePKP	27	19.30	0.3
	0.6s	9.45nm				
SMF	146.09	340	ePKP	27	19.00	0.2
	0.8s	16.10nm				
AVF	146.12	340	ePKP	27	18.70	-0.1
	0.4s	5.15nm				
LPF	146.22	346	ePKP	27	19.10	0.2
	0.6s	17.15nm				
BGF	146.49	341	ePKP	27	19.80	0.4
	0.6s	20.75nm				
MAF	146.88	341	ePKP	27	21.10	1.1
	0.6s	7.20nm				
TCF	146.93	341	ePKP	27	21.30	1.2
	0.8s	9.40nm				
LSF	147.17	342	ePKP	27	21.80	1.3
	0.5s	14.60nm				
MFF	147.33	344	ePKP	27	21.50	0.8
	0.6s	19.85nm				
BCAO	147.50	253	IPKpc	27	24.00	2.0
	0.6s	4.00nm				
RJF	148.03	341	ePKP	27	24.10	2.2X
	0.6s	7.20nm				
LFF	148.60	342	ePKP	27	25.60	2.8X
	0.8s	12.10nm				
LPO	148.69	341	ePKP	27	26.10	3.1X
	0.8s	12.10nm				
S.D. = 1.0 on 34 of 40 obs.						
%	OCT	29, 1990	10h	57m	19.06± 0.69s	
	40.653	N ± 6.3km			29.182	E ± 5.6km

DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.1 (ISK).

IZI	0.39	145	iPg	57	27.00	0.0
			iSg	57	32.00	
HRT	0.41	65	ePg	57	27.50	0.1
ISK	0.42	347	ePg	57	27.50	-0.2
			eSg	57	33.00	
KCT	0.75	238	iPg	57	32.50	-1.2
CTT	0.75	311	iPg	57	33.50	-0.3
BNT	1.01	253	ePn	57	39.00	0.9
KGT	1.45	263	iPn	57	46.00	0.7

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

OCT 29, 1990 11h 18m 32.34 ± 0.72s
44.359 N ± 9.3km 10.088 E ± 4.9km
DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)
ML 2.8 (LDG).

MME	0.47	110	Pd	18	42.10	0.2
			eSg	18	49.10	
BDI	0.47	129	Pd	18	41.90	0.0
			eSg	18	47.50	
BOB	0.61	312	P	18	44.60	-0.2
			eSg	18	55.00	
PIL	0.71	154	P	18	45.70	-0.6
			eSg	18	55.80	
CKI	1.30	274	P	18	57.60	1.2
CRE	1.53	118	P	19	00.00	0.2
SBF	1.97	256	Pn	19	06.00	-0.2
			Sn	19	28.80	
PGF	1.98	204	Pn	19	07.50	1.2
FRF	2.61	253	Pn	19	14.00	-1.3
			Sn	19	44.00	
LPG	2.63	297	Pg	19	20.00	4.2X
LPL	2.65	297	Pg	19	20.00	3.9X
LMR	2.78	250	Pn	19	17.20	-0.6
			Sn	19	47.50	
LRG	2.84	253	Pn	19	18.70	0.1
			Sn	19	48.00	

S.D. = 0.8 on 11 of 13 obs.

? OCT 29, 1990 11h 24m 43.12 ± 7.92s
39.508 N ± 55.6km 26.458 E ± 30.6km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.8 (ISK).

EZN	0.33	342	iPg	24	50.00	0.0
			eSg	24	55.00	
KGT	1.14	34	iPn	25	04.50	0.0
EDC	1.37	52	ePn	25	09.00	0.8
BNT	1.41	53	ePn	25	08.00	-0.8
MFT	1.42	26	ePn	25	11.50	2.4X

S.D. = 1.1 on 4 of 5 obs.

* OCT 29, 1990 11h 31m 38.64 ± 1.53s
36.512 N ± 9.8km 141.838 E ± 11.7km
DEPTH = 16.4 ± 8.4 km
4.6mb (1 obs.)

NEAR EAST COAST OF HONSHU, JAPAN(228)

KAKJ	1.38	258	iPd	32	02.00	-1.1
YAMJ	2.19	320	P	32	14.90	0.0
			eS	32	39.30	
CHJJ	2.34	259	iPd	32	15.90	-1.1
			S	32	39.80	
NIJJ	2.39	289	P	32	17.10	-0.5
			S	32	43.00	
OFUJ	2.57	357	P	32	21.10	0.9
			eS	32	53.40	
MAT	2.92	272	iPd	32	25.00	-0.3
			eS	32	58.00	
MTMJ	3.25	272	P	32	29.80	-0.2
IIDJ	3.35	253	P	32	32.60	1.3
			S	33	11.90	
TSRJ	4.84	260	P	32	53.00	0.5
MRRJ	5.94	355	eP	33	09.70	1.9
			eS	34	17.70	
HOJJ	5.97	10	P	33	07.90	-0.4
			eS	34	12.00	
KUSJ	6.94	18	P	33	20.60	-1.4
			S	34	34.00	
ASAJ	7.62	4	P	33	30.90	-0.7
WB5	56.53	188	eP	41	23.00	0.6

NB2 74.80 337 P 43 19.40 0.0
0.7s 4.60nm 4.6mb
ZOBO 146.65 61 PKP 51 24.00 3.5X
LPB 146.84 61 ePKP 51 28.00 7.4X
CNCB 147.11 61 PKP 51 26.20 4.9X
S.D. = 1.0 on 15 of 18 obs.

OCT 29, 1990 11h 32m 54.62 ± 0.54s
26.521 N ± 9.8km 92.405 E ± 5.6km
DEPTH = 33.0km (normal)
4.9mb (18 obs.)

EASTERN INDIA (317)
Felt at Gauhati.

GUN	5.97	285	P	34	24.70	1.3
PKI	6.33	281	P	34	28.66	0.3
KKN	6.47	283	P	34	31.00	0.7
DMN	6.60	281	P	34	32.50	0.4
GKN	7.07	284	P	34	38.94	0.3
CHG	9.76	140	eP	35	25.60	9.8X
NDI	13.64	283	eP	36	07.50	-0.6
			eS	38	28.00	
LZH	13.65	43	eP	36	08.00	-0.3
	2.0s	50.00nm			5.0mb	
	Z 18s	0.19um			3.9msz	
		pP	36	15.00		
HYB	15.71	238	iPc	36	30.00	-5.2X
	1.0s	45.00nm			4.6mb	
		e	36	39.50		
		eS	39	08.00		

GBA 19.02 230 Pd 37 16.20 -0.3
0.5s 3.50nm 3.8mb X

KOD 21.49 224 eP 37 44.00 1.0
BJI 23.92 50 eP 38 08.50 2.1
1.0s 6.00nm 4.1mb

SSE 25.59 73 eP 38 20.00 -2.5X
MAT 39.98 64 eP 40 28.00 0.1

SOD 56.51 335 iP 42 36.00 0.4
KEV 56.89 338 eP 42 29.00 -9.3X

WB5 61.52 134 eP 43 07.50 -3.4X
HFS 61.82 326 eP 43 11.30 -1.1

0.5s 17.00nm 5.4mb
HAU 68.26 314 eP 43 53.70 -0.6

0.8s 10.75nm 5.0mb
LPG 68.69 311 eP 43 57.20 -0.1

0.6s 6.30nm 4.9mb
LPL 68.69 311 eP 43 57.30 0.0

0.6s 9.00nm 5.0mb
LBF 70.09 313 eP 44 04.90 -0.7

0.4s 2.85nm 4.7mb
SMF 70.28 313 eP 44 06.20 -0.5

0.6s 8.10nm 5.0mb
SSF 70.37 313 eP 44 06.90 -0.3

0.7s 8.80nm 4.9mb
AVF 70.56 313 eP 44 07.80 -0.5

0.8s 10.75nm 5.0mb
MAF 71.25 313 eP 44 12.60 0.0

0.8s 9.40nm 4.9mb
TCF 71.47 313 eP 44 14.00 0.1

0.4s 3.45nm 4.7mb
CAF 72.01 312 eP 44 17.20 0.0

0.4s 3.70nm 4.7mb
LDF 72.19 316 eP 44 17.80 -0.3

0.8s 13.45nm 5.0mb
RJF 72.25 312 eP 44 18.80 0.2

0.9s 13.10nm 4.9mb
LPO 72.68 312 eP 44 21.20 0.1

0.4s 2.30nm 4.5mb
BCAO 73.60 267 iPd 44 25.10 -1.9

0.9s 18.00nm 5.1mb
i 46 59.60
i 47 30.50

S.D. = 0.8 on 27 of 32 obs.

* OCT 29, 1990 12h 02m 42.98 ± 1.32s
66.133 N ± 14.6km 154.978 W ± 7.0km
DEPTH = 33.0km (normal)

ALASKA (676)

IMA	0.53	96	iPd	02	54.40	0.2
NEA	2.92	120	eP	03	29.16	1.0
FBA	3.24	109	iPd	03	32.10	-0.5
TTA	3.25	188	iPd	03	31.80	-1.0
WRH	3.34	117	eP	03	34.37	0.3
CCB	3.35	113	eP	03	33.88	-0.4
GLM	3.36	107	eP	03	33.37	-1.1
SKT	4.44	158	eP	03	51.05	1.4

ANM 4.63 255 eP 03 52.70 0.3
SVW 5.05 184 iPd 03 58.10 -0.4
S.D. = 0.9 on 10 of 10 obs.

OCT 29, 1990 12h 38m 32.91 ± 0.68s
41.113 N ± 6.3km 23.547 E ± 6.3km
DEPTH = 10.0km (geophysicist)

GREECE-BULGARIA BORDER REGION (363)

SRS	0.03	83	ePc	38	32.50	-2.5
			eS	38	33.15	
SOH	0.33	207	iPc	38	39.10	-0.6
			eS	38	44.34	

KNT	0.49	276	ePc	38	42.37	-0.5
			eS	38	49.74	
MMB	0.50	16	ePg	38	42.00	-1.0
KKB	0.83	335	iPg	38	48.00	-1.0
OUR	0.84	157	ePc	38	50.21	1.0
GRG	0.88	260	ePc	38	50.18	0.3
RZN	1.05	56	iP	38	54.00	1.1
VTS	1.50	350	eP	39	02.00	2.0
KDZ	1.51	69	iP	39	00.00	0.0
PG8	1.51	18	eP	39	01.00	1.0

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

? OCT 29, 1990 13h 01m 26.91 ± 2.18s
36.381 N ± 45.5km 70.352 E ± 16.0km
DEPTH = 206.7 ± 23.1 km
4.8mb (2 obs.)

HINDU KUSH REGION (718)

MAIO	8.76	273	eP	03	31.00	0.0
NDI	9.61	141	iPc	03	42.00	0.1
	0.5s	17.61nm			4.6mb	
		iS	05	23.00		

GKN	14.69	121	P	04	46.28	0.0
DMN	15.26	121	P	04	52.90	-0.5
KKN	15.27	120	P	04	53.02	-0.5
PKI	15.49	120	P	04	56.72	0.4
GUN	15.62	118	P	04	58.50	0.6
	0.9s	56.00nm			5.0mb	

KIC	74.26	266	P	12	43.20	0.0
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S.D. = 0.5 on 8 of 8 obs.

* OCT 29, 1990 13h 27m 43.18 ± 0.79s
26.293 N ± 16.6km 95.750 E ± 8.4km
DEPTH = 33.0km (normal)

BURMA-INDIA BORDER REGION (294)

KMI	6.41	99	ePg	29	18.00	0.0
			Sg	30	29.00	
CHG	8.01	158	eP	29	40.20	0.0
GUN	8.94	283	P	29	53.84	0.4
	0.4s	10.00nm			5.3mb X	

PKI	9.32	280	P	29	58.22	-0.4
KKN	9.45	281	P	30	00.22	-0.1
DMN	9.59	280	P	30	02.06	-0.2
GKN	10.04	282	P	30	08.72	0.3
	0.4s	16.00nm			5.6mb X	

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

? OCT 29, 1990 14h 21m 00.86 ± 2.79s
0.537 S ± 18.6km 80.800 W ± 25.3km
DEPTH = 23.1 ± 9.1 km

NEAR COAST DF ECUADOR (105)

GGP	2.23	81	eP	21	36.50	-1.2
YANA	2.27	79	P	21	36.00	-2.1
QTO	2.29	82	eP	21	38.00	-0.4
OUR	2.30	81	eP	21	35.60	-2.9
VC1	2.40	92	iP+	21	40.00	0.0
TUNG	2.51	110	eP	21	41.20	-0.2
			eS	22	13.00	
COTA	2.61	71	eP	21	43.80	0.8
CAYA	2.88	78	eP	21	47.70	0.9
			S	22	19.80	

ZOBO	20.01	142	P	25	35.00	-0.7
LPB	20.23	142	eP	25	47.00	9.2X
CNCB	20.52	143	P	25	40.50	-0.4
SIV	24.79	129	P	26	23.00	0.3
TIC	75.94	83	P	32	48.00	-0.3
KIC	76.21	83	P	32	49.40	-0.4

S.D. = 1.2 on 13 of 14 obs.

OCT 29, 1990 15h 22m 12.40 ± 0.72s
46.581 N ± 4.9km 2.115 E ± 5.4km
DEPTH = 10.0km (geophysicist)

29d 15h

FRANCE (538)
ML 2.7 (LDG).

TCF	0.30	167	Pg	22	18.20	-0.5
			Sg	22	22.20	
MAF	0.48	139	Pg	22	21.40	-0.7
			Sg	22	27.40	
BGF	0.51	92	Pg	22	22.00	-0.6
			Sg	22	28.40	
LSF	0.52	231	Pg	22	22.70	-0.3
			Sg	22	29.50	
AVF	0.88	76	Pg	22	28.80	-0.4
			Sg	22	40.00	
AGO	0.88	127	Pg	22	29.59	0.3
			Sg	22	40.76	
GRC	0.97	42	Pg	22	31.66	0.8
PYM	1.04	143	Pg	22	33.07	1.0
			Sg	22	45.52	
SSF	1.07	63	Pg	22	33.00	0.5
			Sg	22	46.80	
SMF	1.19	86	Pg	22	34.50	-0.1
			Sg	22	50.00	
PLDF	1.21	120	Pn	22	35.82	0.8
			Sg	22	51.20	
LBF	1.34	72	Pg	22	37.00	-0.1
			Sg	22	54.50	
RJF	1.34	198	Pg	22	37.40	0.3
			Sg	22	54.00	
LOR	1.38	59	Pn	22	36.80	-0.9
			Pg	22	38.40	
			Sg	22	55.80	
LFF	1.90	211	Pg	22	48.40	3.2X

S.D. = 0.7 on 14 of 15 obs.

OCT 29, 1990 16h 53m 57.08 ± 1.90s
8.815 N ± 6.0km 126.637 E ± 10.2km
DEPTH = 75.0 ± 18.0 km
5.0mb (10 obs.)

MINDANAO, PHILIPPINE ISLANDS (259)

MNI	7.54	194	eP	55	46.70	0.2
MTN	21.98	168	eP	58	46.50	0.2
SSE	22.74	348	P	58	54.50	0.8
	1.0s	10.00nm			4.2mb	
LOE	25.69	292	eP	59	21.50	-0.5
CHG	28.63	293	eP	59	48.70	-0.1
WB5	29.51	165	eP	59	55.00	-1.7
MAT	29.54	19	eP	59	57.00	0.2
OIS	31.85	157	iPd	00	17.00	-0.2
ASPA	33.05	168	eP	00	26.60	-1.1
	0.6s	4.20nm			4.5mb	
WARB	34.79	180	iPd	00	43.20	0.6
	0.3s	7.00nm			5.1mb	
MRWA	39.18	195	eP	01	19.00	-0.4
FORR	39.46	178	eP	01	22.00	0.3
	0.4s	39.00nm			5.7mb	
BAL	40.34	193	eP	01	30.00	1.0
MUN	41.77	193	eP	01	41.50	0.8
NWAO	42.46	192	eP	01	47.00	0.6
GUN	42.83	302	P	01	49.92	0.0
	0.7s	46.00nm			5.4mb	
PKI	43.12	301	P	01	51.78	-0.5
	0.7s	14.00nm			4.9mb	
KKN	43.29	301	P	01	53.40	-0.1
	0.8s	17.00nm			4.9mb	
DMN	43.39	301	P	01	54.46	0.1
	0.8s	17.00nm			4.9mb	
GKN	43.90	301	P	01	57.84	-0.5
	0.7s	16.00nm			5.0mb	
NDI	50.39	300	iPc	02	49.00	0.1
	0.5s	17.61nm			5.3mb	
HFS	93.50	332	ePKP	07	05.40	-0.1
	2.6s	652.40nm			6.6mb X	

S.D. = 0.7 on 22 of 22 obs.

OCT 29, 1990 18h 44m 41.61s
59.922 N 153.587 W
DEPTH = 139.4km
SOUTHERN ALASKA (2)
<AGS-P>.

OPT	0.32	146	iP	45	00.54	0.9
			eS	45	15.09	
PDB	0.33	246	iP	45	00.25	0.6
			eS	45	14.83	
AUH	0.56	173	eP	45	01.83	-0.6
AUE	0.58	169	eP	45	01.54	-0.8

AUI	0.59	172	eP	45	01.69	-0.8
RED	0.64	39	iP	45	02.03	-0.9
RSO	0.68	37	eP	45	02.44	-0.9
			eS	45	18.24	
MCNL	0.83	208	eP	45	03.13	-1.1
CDD	1.00	182	eP	45	04.51	-1.2
HOM	1.02	104	iP	45	04.88	-0.9
			eS	45	24.17	
XLV	1.06	116	eP	45	04.74	-1.4
NNL	1.16	83	eP	45	06.90	-0.2
CNPM	1.26	107	iP	45	06.75	-1.4
			eS	45	26.07	
BRK	1.37	95	iP	45	08.08	-1.3
CKL	1.42	25	iP	45	09.42	-0.6
NKA	1.43	54	eP	45	10.92	1.0
BGL	1.47	23	eP	45	10.15	-0.4
SPU	1.47	30	iP	45	09.69	-0.8
CRP	1.52	27	eP	45	10.71	-0.4
CGLM	1.59	29	iP	45	11.19	-0.7
NCG	1.65	25	eP	45	12.00	-0.5
SLKM	1.78	69	eP	45	12.28	-1.7
SEW	2.09	83	eP	45	15.76	-1.8
SUA	2.09	41	iP	45	16.64	-1.0
			eS	45	43.86	
SKT	2.30	25	iP	45	19.16	-1.0
PMS	2.39	55	eP	45	19.49	-1.9
PWA	2.51	45	eP	45	21.02	-1.8
PLRM	2.76	51	eP	45	24.19	-1.7
KNK	2.93	57	eP	45	25.59	-2.7
GHO	2.94	49	eP	45	25.73	-2.7
KNIM	2.96	79	eP	45	25.76	-2.8
CUT	2.96	31	eP	45	27.07	-1.6
MTU	2.99	86	eP	45	27.31	-1.7
SML	3.19	51	eP	45	28.63	-3.0
GLI	3.36	71	eP	45	31.31	-2.6
VZW	3.66	69	eP	45	35.88	-2.0
VLZ	3.79	68	eP	45	37.34	-2.1
KLU	4.08	64	eP	45	40.58	-2.9
RND	4.16	31	eP	45	42.43	-2.1
GLB	5.04	68	eP	45	53.35	-3.0
NEA	5.12	22	eP	45	54.68	-2.7
WRH	5.24	27	eP	45	56.17	-2.8
DDM	5.33	40	eP	45	59.80	-0.4
CCB	5.45	27	eP	45	58.98	-2.8
HDA	5.47	32	eP	45	59.41	-2.6
BALM	5.67	74	eP	46	02.85	-2.0
FBA	5.67	26	eP	46	02.09	-2.7
GLM	5.84	27	eP	46	04.19	-2.9

48 obs. associated

OCT 29, 1990 18h 48m 03.50 ± 0.56s
39.992 N ± 4.5km 22.419 E ± 5.6km
DEPTH = 10.0km (geophysicist)

GREECE (364)

LIT	0.12	27	iPd	48	06.29	-0.2
			eS	48	08.68	
KZN	0.59	303	eP	48	15.50	0.0
THE	0.76	33	ePd	48	18.24	-0.2
			eS	48	29.36	
NEO	0.92	138	eP	48	21.70	0.5
SOH	1.09	40	ePc	48	24.08	0.0
FNA	1.12	315	ePd	48	24.92	0.3
EVR	1.17	204	eP	48	25.00	-0.5
			eS	48	41.70	
KNT	1.22	17	ePc	48	25.84	-0.4
			eS	48	43.46	
VAY	1.33	5	ePn	48	28.50	0.4

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

OCT 29, 1990 19h 16m 57.18 ± 6.06s
36.694 N ± 4.4km 14.485 E ± 11.1km
DEPTH = 10.0km (geophysicist)

SICILY (398)

MEU	0.54	41	P	17	07.20	-0.9
			eSg	17	19.70	
FAI	0.87	312	P	17	13.70	-0.2
			eSg	17	30.40	
MNO	1.25	8	P	17	21.50	1.0
GIB	1.34	344	P	17	21.50	-0.5
ATN	1.66	28	P	17	27.30	0.9

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

OCT 29, 1990 19h 57m 47.02 ± 0.55s
40.645 N ± 5.7km 29.101 E ± 4.2km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.6 (ISK).

GBZT	0.30	61	ePg	57	54.70	1.5
			iSg	57	59.10	
IZI	0.42	137	iPg	57	54.80	-0.8
			iSg	57	59.80	
ISK	0.42	356	ePg	57	55.20	-0.4
			eSg	58	01.20	
HRT	0.47	68	ePg	57	55.50	-1.0
KCT	0.69	235	iPg	58	00.80	0.1
CTT	0.71	315	iPg	58	00.80	-0.3
			eSg	58	09.20	
BNT	0.95	253	ePn	58	05.30	0.2
GPA	0.99	111	ePn	58	06.30	0.5
EDC	0.99	253	iPn	58	06.00	0.2

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

OCT 29, 1990 20h 46m 37.16 ± 0.67s
41.668 N ± 5.1km 19.694 E ± 6.2km
DEPTH = 10.0km (geophysicist)

ALBANIA (391)
ML 2.7 (TTG).

LACI	0.03	160	iPg	46	38.10	-1.1
TIR	0.35	158	ePg	46	44.50	0.2
SDA	0.38	337	ePg	46	45.50	0.6
PUK	0.40	22	iPg	46	43.00	-2.4
ULC	0.44	312	ePg	46	46.00	-0.2
			eSg	46	52.00	
PHP	0.56	88	iPg	46	47.90	-0.6
KKS	0.67	53	ePg	46	50.70	0.2
BCI	0.75	22	ePg	46	51.40	-0.4
TTG	0.83	337	ePg	46	53.00	-0.1
			eSg	47	06.00	
PVY	0.95	13	ePg	46	55.00	-0.3
			eSg	47	10.00	
OHR	1.00	123	ePg	46	56.20	0.0
			eSg	47	11.50	
IVA	1.21	7	ePg	47	01.50	1.7
			eSg	47	21.50	
NKY	1.26	336	ePg	47	00.10	-0.5
			eSg	47	19.00	
SKO	1.34	76	iPn	47	03.60	1.8
			iSg	47	21.00	
BRY	1.50	326	ePg	47	05.00	0.8
			eSg	47	29.00	

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

OCT 29, 1990 21h 59m 55.01 ± 3.84s
45.519 N ± 25.2km 26.434 E ± 12.0km
DEPTH = 114.1 ± 38.6 km

ROMANIA (358)

ISR	0.39	168	eP	00	12.00	0.0
VRI	0.41	30	iPc	00	12.00	0.0
MTUR	1.01	254	eP	00	17.00	0.0
CFR	1.26	105	iPc	01	20.00	60.4X
TLB	1.47	129	iPc	00	22.00	0.0
COZ	1.49	263	iPc	00	22.50	0.0

S.D. = 0.1 on 5 of 6 obs.

OCT 29, 1990 22h 04m 25.21 ± 0.44s
31.888 S ± 7.0km 70.269 W ± 8.4km
DEPTH = 116.3 ± 6.6 km
4.5mb (4 obs.)

CHILE-ARGENTINA BORDER REGION (127)

RTBS	0.73	72	ePd	04	45.80	1.1
JACH	0.84	199	iPd	04	45.60	-0.2
ROCH	1.25	210	iPd	04	50.00	-0.1
PEL	1.30	196	iPd	04	50.30	-0.2
RTCB	1.32	73	iPd	04	51.00	0.3
ZON	1.40	76	eP	04	53.00	1.4
FCM	1.44	181	iPd	04	52.60	0.2
RTCV	1.47	89	ePc	04	53.00	0.5
SAN	1.60	192	iPd	04	54.00	0.0
			iS	05	15.10	
IHA	1.62	225	iPc	04	54.10	-0.1
			i(S)	05	13.00	
RTLL	1.63	71	iPc	04	54.80	0.4
PCH	1.74	187	iPd	04	56.00	0.2
			iS	05	19.00	
TACH	1.85	198	iPd	04	56.50	-0.6
LCCH	1.93	214	iPd	04	57.60	-0.4
			iS	05	21.10	
CHCH	2.07	189	iPd	05	00.00	0.2

IS 05 25.20
LNV 2.27 205 iPd 05 01.50 -1.0
i 05 25.50
IS 05 30.50
CYA 5.18 50 iPd 05 39.80 -1.9
ANT 8.15 359 e(P) 06 20.20 -2.1
CNCB 15.15 8 iPd 07 58.00 3.1X
LPB 15.41 8 P 08 03.00 5.0X
1.0s 44.00nm 4.7mb
ZOB0 15.67 8 P 08 03.00 1.6
1.0s 18.75nm 4.3mb
Z 20s 0.09um 4.6msz
LR 11 10.00
SIV 17.90 30 P 08 27.80 -0.6
PPD 19.52 64 eP 08 45.50 -0.3
NNA 20.71 342 eP 09 00.00 1.9
0.8s 5.97nm 4.0mb
VAO 22.46 73 (P) 09 13.00 -2.4
SPA 58.29 180 iPd 14 11.10 1.3
1.2s 12.68nm 4.8mb
e 14 42.50
GBA 145.29 114 PKPc 23 51.90 0.7
0.4s 1.90nm
S.D. = 1.1 on 25 of 27 obs.

? OCT 29, 1990 22h 26m 19.21 ± 2.43s
20.666 S ± 18.1km 168.729 E ± 24.6km
DEPTH = 43.3 ± 16.4 km
4.5mb (1 obs.) 3.9msz (1 obs.)

LOYALTY ISLANDS (188)

DZM 2.55 236 iPd 26 59.20 0.1
iS 27 34.00
PVC 2.94 352 iPd 27 04.40 -0.1
iS 27 39.50
WB5 32.21 265 eP 32 45.40 -0.2
ASPA 32.35 258 eP 32 47.30 0.5
0.6s 4.40nm 4.5mb
Z 18s 0.20um 3.9msz
CHG 78.81 295 eP 38 19.60 0.0
BRG 143.92 333 iPKP 45 45.30 -6.1X
0.8s 16.00nm
i 45 54.60
CLL 143.99 334 iPKPc 45 44.50 -7.0X
0.8s 15.00nm
e 45 53.00
PRU 144.30 331 PKPd 45 46.10 -5.9X
0.8s 11.10nm
VKA 144.65 328 i(PKP) 45 48.20 -4.5X
EKA 144.85 352 PKP 45 47.00 -5.8X
0.6s 10.00nm
MOX 145.07 334 ePKP 45 49.00 -4.3X
KHC 145.36 331 PKP 45 50.20 -3.7X
WTS 145.71 340 ePKP 45 50.00 -4.3X
0.9s 19.00nm
GRF 145.96 334 ePKP 45 51.70 -3.2X
0.9s 15.00nm
BCAO 146.83 245 iPKPc 45 55.60 -1.8
0.8s 14.00nm
ENN 147.05 340 ePKP 45 56.00 -0.5
0.9s 9.00nm
MEM 147.16 340 PKPc 45 54.80 -1.9
CDF 148.55 336 ePKP 45 58.10 -1.1
0.7s 9.90nm
BSF 149.22 336 ePKP 45 59.60 -0.7
0.8s 13.45nm
HAU 149.24 337 ePKP 45 59.70 -0.5
0.6s 5.40nm
FLN 150.66 345 ePKP 46 02.40 0.1
0.5s 7.30nm
LDF 150.73 345 ePKP 46 02.70 0.3
LOR 150.76 339 ePKP 46 03.20 0.7
0.8s 9.40nm
SSF 151.05 339 ePKP 46 04.00 1.1
0.8s 5.35nm
GRR 151.10 346 ePKP 46 03.80 0.9
LPL 151.12 333 ePKP 46 04.80 1.4
0.9s 6.55nm
LPF 151.48 346 ePKP 46 04.60 1.1
0.5s 7.30nm
MAF 152.10 339 ePKP 46 05.40 0.9
1.0s 10.00nm
S.D. = 1.0 on 19 of 28 obs.

* OCT 29, 1990 22h 32m 31.12 ± 1.34s
39.532 N ± 6.4km 26.123 E ± 14.7km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 3.0 (ISK). ML 2.9 (ATH).
PRK 0.31 158 iPg 32 36.70 -0.8
eSg 32 40.80
EZN 0.33 28 iPg 32 37.30 -0.7
IZM 1.44 142 ePn 32 57.90 0.6
MFT 1.54 35 iPn 32 58.20 -0.5
EDC 1.57 58 ePn 32 59.00 0.0
BNT 1.61 59 ePn 32 58.70 -0.9
RDO 1.67 345 ePn 33 01.00 0.5
KCT 1.86 67 ePn 33 05.20 1.9
CTT 2.39 47 ePn 33 14.00 3.1X
S.D. = 1.1 on 8 of 9 obs.

OCT 29, 1990 22h 58m 29.51 ± 0.72s
39.503 N ± 5.0km 26.167 E ± 8.8km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 3.3 (ISK). 3.0 (ATH).
PRK 0.27 162 iPg 58 35.40 0.2
EZN 0.34 21 iPg 58 36.00 -0.6
IZM 1.40 142 iPn 58 54.60 -0.5
MFT 1.54 33 iPn 58 57.70 0.6
EDC 1.55 57 ePn 58 58.00 0.8
BNT 1.59 57 iPn 58 57.20 -0.6
RDO 1.71 344 ePn 58 59.70 0.2
eSb 59 21.50
KDZ 2.22 345 eP 59 07.00 0.1
PLG 2.27 293 ePb 59 12.00 4.4X
CTT 2.39 46 ePn 59 12.70 3.4X
RZN 2.45 334 eP 59 10.00 -0.3
MMB 2.79 319 eP 59 19.00 3.9X
HRT 2.99 63 ePn 59 25.00 7.2X
PGB 3.40 334 eP 59 30.00 6.3X
S.D. = 0.6 on 9 of 14 obs.

* OCT 29, 1990 23h 29m 33.93 ± 0.47s
9.090 S ± 10.1km 108.926 E ± 13.7km
DEPTH = 33.0km (normal)
4.9mb (11 obs.) 3.7msz (1 obs.)

SOUTH OF JAVA (282)

NANU 14.82 155 eP 33 02.00 -0.9
0.3s 4.00nm 4.4mb
eS 35 35.00
MBL 15.95 140 eP 33 18.00 0.4
0.4s 3.00nm 3.8mb X
eS 36 04.00
MTN 22.11 102 eP 34 33.00 4.7X
0.4s 47.00nm 5.3mb
eS 38 40.40
WB5 26.82 116 eP 35 20.00 6.6X
ASPA 27.93 124 eP 35 28.60 5.1X
1.2s 5.60nm 4.1mb
Z 20s 0.20um 3.7msz
CHG 29.42 340 eP 35 35.90 -1.0
e 38 45.30
KOD 36.73 301 eP 36 41.60 1.0
GBA 38.54 305 P 36 56.00 0.5
PKI 42.98 329 P 37 32.32 0.0
0.5s 5.00nm 4.5mb
GUN 43.02 329 P 37 32.52 -0.1
0.7s 22.00nm 5.0mb
DMN 43.16 328 P 37 33.42 -0.3
0.6s 14.00nm 4.8mb
KKN 43.22 329 P 37 33.80 -0.3
0.8s 19.00nm 4.9mb
GKN 43.73 328 P 37 38.02 -0.1
0.7s 23.00nm 5.1mb
POO 44.17 309 eP 37 41.50 -0.2
BR5 45.16 120 iP 37 57.00 7.4X
LZH 45.19 354 eP 37 51.40 1.6
1.5s 28.00nm 4.9mb
Z 17s 0.19um 4.1msz X
NDI 48.45 322 iPd 38 14.00 -1.4
0.8s 65.67nm 5.7mb
BJI 49.34 7 eP 38 22.50 0.5
1.0s 18.00nm 5.1mb
e 41 55.00
MAT 53.08 30 eP 38 50.00 -0.5
MAIO 64.76 317 eP 40 11.00 -0.7
BUL 77.89 251 iPd 41 26.40 -4.4X
SOB1 144.88 240 ePKP 49 11.70 1.3
BAO 146.44 223 ePKP 49 18.40 5.4X
SIV 153.18 202 ePKP 49 27.00 3.9X

S.D. = 0.9 on 17 of 24 obs.

% OCT 30, 1990 00h 07m 50.06 ± 1.19s
45.920 N ± 9.5km 2.896 E ± 7.9km

DEPTH = 10.0km (geophysicist)

FRANCE (538)

ML 2.0 (LDG).

MAF 0.38 323 Pg 07 58.00 0.2
Sg 08 03.30
TCF 0.60 308 Pg 08 02.00 -0.3
Sg 08 10.00
AVF 0.93 20 Pg 08 07.60 -0.1
Sg 08 19.50
SMF 0.98 42 Pg 08 08.50 -0.1
Sg 08 21.30
RJF 1.15 238 Pg 08 11.60 0.1
Sg 08 26.80
SSF 1.22 20 Pg 08 13.00 0.3
Sg 08 28.40

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

OCT 30, 1990 01h 01m 00.69 ± 0.71s
17.451 S ± 7.3km 70.236 W ± 7.1km

DEPTH = 125.0 ± 7.1 km
4.5mb (8 obs.)

NEAR COAST OF PERU (115)

ARE 1.55 309 iPd 01 29.00 -0.7
iS 01 49.00
LPB 2.24 66 iPd 01 40.10 1.8
CNCB 2.25 74 iPd 01 40.70 2.1
ZOB0 2.34 60 iPd 01 41.20 1.5
ANT 6.22 182 iPd 02 26.10 -5.4X
NNA 8.39 309 iPd 03 00.00 -0.9
0.8s 10.45nm 4.6mb
SIV 8.90 82 Pd 03 04.60 -3.2X
PEL 15.63 181 eP 04 35.00 -0.4
1.0s 25.00nm 4.4mb
i 04 37.70
FCH 15.81 180 eP 04 37.00 -0.9
i 04 40.60
SAN 15.94 181 eP 04 41.00 1.8
BAO 21.40 88 eP 05 40.30 0.4
VAO 22.51 108 (P) 05 49.00 -1.7
BMA 25.03 106 eP 06 14.40 -0.4
JFO 25.69 104 e(P) 06 20.00 -1.0
SOB1 29.67 78 eP 06 54.30 -2.6
JSC 52.50 348 P 10 02.70 -0.2
PRM 52.53 347 P 10 02.40 -0.8
NA2 55.73 353 P 10 03.40 -23.0X
OLY 56.38 339 P 10 29.70 -1.5
ELC 57.31 342 P 10 36.40 -1.2
FVM 58.31 341 P 10 43.70 -1.0
ALO 62.44 327 eP 11 12.80 -0.1
0.7s 2.91nm 4.3mb
GLD 65.60 331 P 11 33.70 0.3
GOL 65.63 331 P 11 32.80 -0.9
0.8s 4.09nm 4.4mb
LIC 68.54 76 P 11 51.20 -1.0
KIC 68.86 76 P 11 53.30 -0.8
DAU 69.06 328 P 11 56.30 1.1
LKO 69.27 72 P 11 55.56 -1.1
0.4s 6.50nm 4.8mb
DUG 69.71 326 P 12 00.30 1.3
BW06 70.00 330 P 12 00.80 0.0
0.7s 2.92nm 4.2mb
BCH 70.54 318 P 12 05.80 1.7
TNP 70.68 322 P 12 06.00 0.9
0.8s 6.25nm 4.5mb
SPA 72.66 180 iPd 12 17.20 0.8
1.1s 14.88nm 4.7mb
ORV 74.17 321 P 12 27.30 2.0
LBFM 75.54 322 P 12 27.20 -6.2X
YKA 86.97 341 P 13 33.40 1.0
ASPA 132.82 211 ePKP 20 03.90 0.6
1.3s 5.10nm
WB5 135.73 214 ePKP 20 09.60 0.7X
MAT 148.50 313 ePKP 20 35.00 4.3X
GBA 148.64 92 PKPd 20 36.20 4.8X
0.8s 11.40nm
HYB 150.24 85 ePKP 20 40.00 6.2X
1.0s 25.00nm

S.D. = 1.3 on 33 of 41 obs.

* OCT 30, 1990 01h 47m 25.16s
60.552 N 151.889 W

30d 01h

DEPTH = 85.1km
KENAI PENINSULA, ALASKA
<AGS-P>

(14)

RDT	0.26	275	iP	47	37.58	-0.5
			eS	47	47.80	
NKA	0.37	59	iP	47	40.07	1.5
RSO	0.44	258	eP	47	38.79	-0.6
			eS	47	49.86	
RED	0.46	253	iP	47	38.70	-0.7
NNL	0.59	150	eP	47	40.99	0.6
SPU	0.64	353	iP	47	40.20	-0.7
			eS	47	52.56	
CKL	0.68	341	iP	47	40.71	-0.7
CRP	0.73	350	iP	47	41.39	-0.6
			eS	47	53.92	
BGL	0.75	341	iP	47	41.48	-0.7
CGLM	0.76	356	iP	47	41.58	-0.6
SLKM	0.83	92	iP	47	42.16	-0.7
NGC	0.86	351	iP	47	42.57	-0.8
BRK	0.94	147	eP	47	43.31	-0.8
SUA	1.07	31	iP	47	45.31	-0.5
			eS	48	00.44	
CNPM	1.08	162	eP	47	45.04	-0.7
			eS	48	00.81	
XLV	1.10	176	eP	47	45.09	-1.0
OPT	1.12	217	iP	47	45.70	-0.6
			eS	48	01.92	
SEW	1.29	109	eP	47	47.03	-1.4
PMS	1.33	58	iP	47	48.35	-0.6
PDB	1.38	237	iP	47	48.16	-1.4
AUE	1.41	213	eP	47	48.94	-0.9
SKT	1.44	7	iP	47	49.25	-1.1
AUI	1.45	213	eP	47	49.50	-0.9
PWA	1.47	41	eP	47	50.44	-0.3
PLRM	1.70	51	eP	47	52.38	-1.3
PMR	1.70	51	iPc	47	52.30	-1.4
MCNL	1.85	223	eP	47	54.28	-1.4
CDD	1.85	209	iP	47	54.66	-1.1
KNK	1.88	61	eP	47	54.68	-1.5
GHO	1.89	48	eP	47	54.71	-1.6
SVW	1.91	289	iPd	47	54.40	-2.2
CUT	2.02	22	eP	47	56.61	-1.3
KNIM	2.07	94	eP	47	55.72	-3.0
SML	2.13	52	eP	47	57.61	-2.0
MTU	2.19	103	eP	47	58.04	-2.2
GLI	2.38	80	eP	47	59.52	-3.4
KLU	3.05	69	eP	48	09.47	-2.8
TTA	3.09	322	iPd	48	10.70	-2.0
TOA	3.17	58	iPd	48	17.00	3.2
RND	3.20	25	eP	48	12.74	-1.6
WRH	4.31	22	eP	48	27.14	-2.5
HDA	4.49	28	eP	48	29.38	-2.8
CCB	4.52	23	eP	48	29.79	-2.8
FBA	4.75	22	eP	48	32.73	-3.1

44 obs. associated

? OCT 30, 1990 01h 52m 08.37 ± 4.73s
39.568 N ± 11.8km 25.940 E ± 46.9km
DEPTH = 10.0km (geophysicist)

AEGEAN SEA (365)
MD 3.1 (ISK).

EZN	0.39	49	iPg	52	15.90	-0.5
			eSg	52	20.40	
Izm	1.56	138	ePn	52	36.00	-0.2
MFT	1.59	40	ePn	52	36.60	-0.1
EDC	1.67	62	ePn	52	38.00	0.2
BNT	1.71	62	ePn	52	39.00	0.6

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

? OCT 30, 1990 03h 24m 02.68 ± 2.83s
44.143 N ± 32.1km 150.031 E ± 35.0km
DEPTH = 33.0km (normal)

KURIL ISLANDS REGION (222)

KUSJ	4.00	257	P	25	02.90	-0.3
			eS	25	44.00	
HOOJ	5.23	253	P	25	22.80	2.2X
			eS	26	19.00	
ASAJ	5.32	272	eP	25	25.00	3.2X
MRRJ	6.76	258	eP	25	42.40	0.3
			eS	26	54.30	
OFUJ	8.05	234	P	26	00.20	0.0
			S	27	23.90	
GUN	53.06	275	P	33	20.00	0.7
KKN	53.56	275	P	33	21.40	-1.4

PKI 53.60 275 P 33 23.20 0.0
GKN 53.90 276 P 33 26.00 0.8
S.D. = 0.9 on 7 of 9 obs.

OCT 30, 1990 03h 45m 22.66 ± 0.85s
33.341 N ± 11.6km 132.080 E ± 5.6km
DEPTH = 70.1 ± 8.6 km
4.4mb (6 obs.)

SHIKOKU, JAPAN (236)

SHNJ	1.13	314	iP	45	43.30	0.3
SHK	1.29	23	iPc	45	45.40	0.2
	0.6s	1733.33nm				
TKSJ	1.76	68	iP+	45	51.20	-0.4
YONJ	2.17	31	iPd	45	57.20	-0.1
		S		46	21.20	
WKYJ	3.06	72	iPd	46	09.60	-0.1
TSRJ	3.90	55	P	46	21.40	0.0
		eS		47	04.80	
IIDJ	5.27	65	eP	46	38.20	-2.5
		eS		47	34.70	
MTMJ	5.71	54	P	46	47.60	0.7
MAT	5.96	56	iPd	46	50.30	0.0
		(S)		47	55.00	
CHJJ	6.30	63	P	46	55.70	0.6
KAKJ	7.25	65	eP	47	07.00	-1.1
YAMJ	8.07	51	P	47	20.40	1.0
SSE	9.50	259	eP	47	38.60	-0.4

Z 16s 0.40um

		pP		47	43.50	
		sP		47	49.50	
OFUJ	9.63	51	P	47	42.40	1.6
BJI	14.40	302	eP	48	52.00	7.9X
	1.0s	61.00nm				4.9mb
GUN	39.87	275	P	52	52.20	0.6
PKI	40.38	275	P	52	55.80	0.1
KKN	40.41	275	P	52	56.20	0.3
DMN	40.62	275	P	52	55.80	-1.8
GKN	40.88	276	P	52	59.80	0.2
WB5	52.97	177	eP	54	35.00	0.8
GBA	53.21	262	Pd	54	37.30	1.2
	0.8s	1.90nm				4.2mb
FBA	56.22	30	eP	55	14.50	17.1X
	1.2s	8.33nm				
MBC	62.14	15	eP	55	39.00	0.9
	0.9s	3.00nm				4.4mb
DAG	68.66	353	eP	56	20.00	0.1
	1.0s	8.00nm				4.6mb
HFS	74.07	333	eP	56	51.10	-1.4
	0.5s	1.50nm				4.2mb
NB2	74.40	334	P	56	53.30	-1.2
	0.7s	2.50nm				4.3mb
TNP	84.12	48	eP	58	05.00	17.5X
	1.0s	7.75nm				
PV09	88.69	43	eP	58	25.00	15.0X

S.D. = 1.0 on 25 of 29 obs.

* OCT 30, 1990 04h 05m 16.81 ± 0.53s
14.694 N ± 9.2km 146.894 E ± 9.5km
DEPTH = 40.9km (2 depth phases)

5.6mb (7 obs.)

MARIANA ISLANDS (216)

GUA	2.24	239	eP	05	53.30	1.0
		eS		06	25.80	
PJG	2.25	241	eP	05	53.50	1.0
GUMO	2.25	241	eP	05	53.20	0.7
MAT	23.10	342	eP	10	18.00	-2.0
PMG	23.95	179	eP	10	27.00	-1.3
SSE	28.66	309	eP	11	06.00	-5.9X
		eP		11	17.00	41km
		i		11	42.50	
		e(S)		16	27.00	
WB5	36.50	200	eP	12	18.20	-2.1
		e		13	10.00	248kmX
BJI	36.85	319	eP	12	22.00	-1.0
	1.0s	18.00nm				4.9mb
LZH	43.89	307	eP	13	22.50	1.0
	1.5s	59.00nm				5.1mb
Z	16s	0.19um				4.1mszX
		pP		13	34.00	41km
		sP		13	39.50	
GUN	57.83	294	P	15	06.52	-0.9
	0.8s	76.00nm				5.8mb
PKI	58.25	293	P	15	09.94	-0.4
	0.9s	33.00nm				5.4mb
KKN	58.37	294	P	15	10.66	-0.3

0.9s 45.00nm 5.6mb
DMN 58.52 294 P 15 11.88 -0.2
0.8s 53.00nm 5.7mb

GKN	58.93	294	P	15	14.62	-0.2
	1.0s	129.00nm				6.0mb
FBA	66.40	25	eP	16	04.50	0.9
GBA	67.10	279	P	16	09.20	0.4
KOD	67.72	275	eP	16	13.70	0.6
MBC	76.73	14	eP	17	05.00	-0.1
	1.0s	4.00nm				4.4mb X
YKA	80.98	28	P	17	36.00	7.7X
TNP	85.61	52	eP	17	54.00	1.1
SES	86.32	39	eP	17	56.00	0.1
DUG	88.30	49	eP	18	08.00	2.2
KIC	144.95	305	PKP	24	51.70	-0.5
TIC	145.00	305	PKP	24	52.20	-0.1
LIC	145.26	305	PKP	24	52.90	0.1
LPB	146.27	98	PKP	25	00.00	5.1X
CNCB	146.39	98	PKP	24	59.00	3.7X
SIV	153.01	96	PKP	25	13.40	8.7X

S.D. = 1.1 on 23 of 28 obs.

* OCT 30, 1990 04h 29m 02.40 ± 0.69s
21.829 S ± 12.4km 170.036 E ± 12.5km
DEPTH = 33.0km (normal)

5.0mb (7 obs.) 4.0msz (1 obs.)

LOYALTY ISLANDS REGION (189)

DZM	3.34	265	iPc	29	52.90	-0.8
			iS	30	29.50	
HNR	15.68	320	eP	32	45.00	2.4
BRS	16.64	247	iP	32	55.00	0.2
RMO	19.96	252	iPc	33	34.20	-0.5
CTA	22.27	270	iPc	34	01.00	2.7X
	0.9s	15.13nm				4.4mb
CNB	22.53	229	iPc	34	04.00	3.2X
BWA	22.77	232	eP	34	02.30	-0.8
CAN	22.79	229	eP	34	05.00	1.7
CMS	23.63	241	iPc	34	13.00	1.5
			e	34	20.00	
TOO	26.36	228	eP	34	38.00	0.6
STK	27.21	242	iPc	34	48.00	3.6X
	1.3s	11.00nm				4.3mb
ASPA	33.32	260	eP	35	38.50	-1.1
	0.8s	8.20nm				4.7mb
Z	22s	0.30um				4.0mSz
WB5	33.34	267	eP	35	38.00	-1.8
MTN	38.11	277	eP	36	20.00	-0.2
	0.5s	40.00nm				5.5mb
FORR	38.46	248	eP	36	22.00	-1.0
	0.5s	20.00nm				5.2mb
SBA	56.10	181	iP	38	40.00	-0.3
MAT	65.38	332	eP	39	41.00	-2.8
SSE	70.46	317	e(P)	40	14.50	-1.2
BJI	79.41	321	(P)	41	05.50	-1.3
KMI	80.27	302	Pd	41	14.00	1.9
	1.5s	40.00nm				5.2mb
CHG	80.40	295	eP	41	14.50	1.9
LZH	85.01	312	eP	41	37.50	1.4
	2.0s	36.00nm				5.2mb
		pP	41	41.00	11kmX	
		sP	41	45.50		
KSP	144.51	331	ePKP	48	34.80	-2.1
			e	48	39.30	
BZS	144.97	320	ePKP	48	37.00	-0.8
BRG	145.51	333	iPKP	48	38.40	-0.2
	1.1s	30.00nm				
		i	48	45.80		
SRO	145.55	326	ePKP	48	38.30	-0.4
CLL	145.56	334	iPKP	48	38.40	-0.2
	0.9s	23.00nm				
PRU	145.90	331	ePKP	48	40.00	0.7
			e	48	42.90	
EKA	146.16	353	PKPd	48	39.40	-0.1
	0.5s	4.60nm				
VKA	146.27	328	e(PKP)	48	41.50	1.6
VAY	146.43	313	ePKP	48	40.00	-0.4
MOX	146.63	335	ePKP	48	43.00	2.6X
KHC	146.96	331	PKP	48	43.50	2.5X
			e	48	50.00	
BCAO	147.41	242	iPKPd	48	45.00	2.2
	0.4s	9.00nm				
GRF	147.54	334	ePKP	48	44.80	2.9X
			e	48	47.20	
			e	48	51.90	
WATA	149.19	331	e(PKP)	48	50.50	5.7X
			i	49	10.10	

SQTA 149 44 331 ePKP 48 49.00 3.8X
0.9s 13.80nm
i 48 58.80
S.D. = 1.4 on 29 of 37 obs.

* OCT 30, 1990 06h 55m 52.77±0.88s
37.136 N ± 7.7km 89.621 W ± 0.8km
DEPTH = 5.0km (geophysicist)
CAPE GIRARDEAU, MISSOURI REGION(487)
mbLg 2.3 (NEIS). Felt at New
Hamburg and in the Cape
Girardeau area.

ELC 0.35 65 eP 56 00.40 0.6
GRT 0.88 170 eP 56 10.00 -0.2
FVM 1.06 323 eP 56 12.60 -0.6
OLY 2.21 223 eP 56 31.70 1.1
PWLA 2.49 149 eP 56 33.80 -0.9
S.D. = 1.2 on 5 of 5 obs.

OCT 30, 1990 07h 30m 06.51±0.33s
3.796 N ± 4.0km 123.235 E ± 4.5km
DEPTH = 550.9 ± 4.6 km
5.3mb (37 obs.)

CELEBES SEA (262)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 22C
Centroid Location:
Origin Time 07:30:11.1 0.6
Lat 3.95N 0.06 Lon 122.76E 0.09
Dep 544.2 4.8 Half-duration 1.7
Moment Tensor: Scale 10¹⁷ Nm
Mrr=-0.11 0.06 Mtt=-0.05 0.10
Mff=0.16 0.11 Mrt=0.24 0.11
Mrf=-1.17 0.09 Mtf=0.59 0.09
Principal Axes:
T Val= 1.28 Plg=37 Azm=107
N 0.13 27 354
P -1.40 41 238
Best Double Couple: Mo=1.3*10¹⁷
NP1: Strike=259 Dip=27 Slip= -5
NP2: 353 88 -117

MNI 2.83 146 eP 31 21.40 0.2
DAV 4.01 35 eP 31 29.00 -0.1
KKM 7.34 288 ePc 31 58.60 -0.1
1.0s 567.90nm 5.7mb
AAI 8.93 146 ePd 32 15.50 1.0
OCP 10.98 349 eP 32 45.00 9.8X
BAG 12.80 348 eP 32 52.80 -1.1
eS 35 08.80
TRT 15.57 223 ePc 33 20.60 -0.6
0.8s 176.10nm 5.6mb
MTN 18.30 155 iPd 33 48.10 0.4
0.4s 194.00nm 6.1mb
KGM 19.97 265 eP 34 04.80 1.4
IPM 22.16 273 ePd 34 25.10 1.6
0.9s 75.30nm 5.3mb
SNG 22.76 279 eP 34 29.20 0.3
1.2s 237.50nm 5.7mb
e 40 46.30
PPI 23.21 260 eP 34 32.50 -0.5
e(S) 35 16.50
PSI 24.30 268 ePd 34 42.50 -0.2
0.9s 69.50nm 5.3mb
MBL 25.02 188 iPd 34 48.10 -1.0
0.3s 5.00nm 4.6mb
LOE 25.05 304 eP 34 44.00 -5.4X
NST 25.61 299 eP 34 54.50 0.2
WB5 25.95 155 iPc 34 56.00 -1.3
eS 38 44.80
PMG 27.21 119 iPc 35 07.60 -0.8
1.1s 121.52nm 5.4mb
SSE 27.22 356 eP 35 09.00 0.7
i 35 15.00
esP 36 08.00
S 41 51.00
ScS 44 48.00
NANU 27.26 196 iPc 35 08.30 -0.4
0.4s 20.00nm 5.1mb
BDT 27.26 301 iPd 35 09.00 0.2
0.9s 125.30nm 5.5mb
CHG 28.04 304 ePd 35 16.00 0.3
1.0s 97.50nm 5.4mb
eS 39 20.00
KMI 28.95 319 Pd- 35 25.00 1.3

1.5s 170.00nm 5.5mb
Z 14s 0.40um 4.2MszX
pP 36 21.00 290kmX
sP 36 53.50
S 39 40.00
OIS 29.05 147 iPc 35 23.80 -0.5
0.9s 118.00nm 5.5mb
e 36 20.00
i 41 04.20
ASPA 29.21 160 iPc 35 25.40 -0.3
0.4s 44.70nm 5.4mb
iS 39 37.30
iScS 44 57.40
WARB 29.98 174 eP 35 32.20 -0.1
0.3s 24.00nm 5.3mb
MEKA 30.57 188 eP 35 36.90 -0.4
0.3s 14.00nm 5.1mb
CTA 32.78 137 iPc 35 56.80 0.8
1.2s 110.94nm 5.4mb
iS 40 36.00
iScP 41 17.60
iScS 45 20.60
MRWA 33.55 191 iPd 36 02.10 -0.2
COOL 34.54 183 eP 36 09.00 -1.6
FORR 34.76 173 iPd 36 12.50 0.1
0.5s 99.00nm 5.7mb
BAL 34.77 190 eP 36 12.00 -0.5
eS 41 24.00
MAT 35.38 21 eP 36 16.00 -1.5
eS 41 09.00
KLB 35.58 188 iPd 36 19.00 -0.1
0.4s 19.00nm 5.1mb
MUN 36.20 190 eP 36 24.10 -0.1
BJI 36.64 351 eP 36 27.50 -0.2
1.0s 24.00nm 4.8mb
eS 41 28.00
ScP 41 31.00
sS 44 24.00
ScS 45 40.00
LZH 36.78 333 iPd 36 30.00 0.8
1.5s 158.00nm 5.4mb
(PP) 38 22.00
ScP 41 32.20
S 41 35.00
PcS 42 23.00
SS 44 35.00
ScS 45 39.00
NWA0 36.96 188 iPd 36 31.00 0.5
0.5s 17.00nm 4.9mb
RKG 38.12 188 eP 36 45.00 5.0X
RMO 38.94 142 iPc 36 45.70 -1.0
STK 39.54 155 iPc 36 55.50 3.9X
0.6s 38.00nm 5.2mb
iS 42 18.40
BRS 42.12 139 iP 37 13.50 1.3
i(S) 41 53.80
GUN 42.90 308 Pd 37 19.24 0.4
0.5s 419.00nm 6.3mb
PKI 43.12 307 Pd 37 20.48 -0.1
0.4s 99.00nm 5.7mb
KKM 43.32 307 Pd 37 22.06 0.1
DMN 43.38 307 Pd 37 22.62 0.1
1.0s 478.00nm 6.0mb
COO 43.79 143 iPc 37 27.10 1.7
0.6s 32.00nm 5.0mb
GKN 43.92 307 Pd 37 26.66 0.0
BFD 44.55 158 iPd 37 35.80 4.7X
0.5s 12.00nm 4.7mb
BWA 44.81 150 iPc 37 35.30 2.1
eScP 42 04.80
CAN 45.81 150 iPc 37 42.30 1.4
eScP 42 08.30
HYB 45.82 291 iPd 37 41.20 0.0
1.0s 270.00nm 5.7mb
KOD 45.83 281 iPd 37 41.20 -0.5
1.0s 90.00nm 5.3mb
TOO 46.06 155 eP 37 44.00 1.2
GBA 46.23 285 Pd 37 43.70 -0.6
0.8s 77.30nm 5.3mb
DZM 49.45 123 iPc 38 09.10 0.4
NDI 50.19 305 iPd 38 12.50 -1.4
0.7s 82.19nm 5.4mb
iS 44 42.00
POO 50.43 291 iPd 38 14.50 -1.3
1.0s 66.00nm 5.1mb
QUE 59.17 303 iPd 39 16.40 -0.7
e(S) 46 41.00

THZ 63.93 141 P 39 47.00 -0.6
LTZ 64.08 142 P 39 48.30 -0.2
TCW 64.52 139 P 39 50.30 -0.9
KHZ 64.68 141 P 39 51.60 -0.6
0.4s 15.00nm 4.9mb
KIW 64.76 139 P 39 52.10 -0.7
MRW 64.81 139 P 39 52.10 -0.9
CAW 64.98 139 P 39 53.20 -1.0
MOW 65.26 139 P 39 54.90 -1.0
MTW 65.29 139 P 39 55.60 -0.5
BLW 65.38 139 P 39 56.60 0.0
PGZ 65.54 138 P 39 57.40 -0.2
HBZ 65.55 134 P 39 58.10 0.4
0.4s 38.00nm 5.3mb
NOZ 65.81 135 P 39 59.50 0.2
MAIO 66.71 308 iPd 40 04.80 -0.3
0.8s 18.30nm 4.7mb
eS 48 16.00
HRI 85.85 303 eP 41 50.00 0.6
ADI 86.28 303 iPd 41 51.70 0.3
NAI 86.52 269 iPd 41 54.60 1.4
RMN 86.90 300 iPd 41 54.50 0.0
KEV 88.63 340 eP 41 55.00 -6.7X
SOD 89.07 337 iP 42 02.90 -0.8
NUR 90.95 331 eP 42 11.00 -1.4
MBC 92.64 12 eP 42 21.00 1.0
KRA 95.60 321 ePc 42 33.90 -0.1
NB2 97.16 333 P 42 39.30 -1.6
0.8s 4.40nm 4.8mb
BRG 99.09 323 iP 42 50.00 0.3
ALO 119.52 46 ePKP 47 57.00 1.2
KIC 127.09 281 PKPc 48 11.40 0.7
TIC 127.31 281 PKPc 48 11.40 0.3
LKO 127.31 285 PKP 48 10.98 -0.2
0.5s 7.00nm
LIC 127.39 281 PKPc 48 11.50 0.2
CNCB 163.02 140 PKP 49 11.00 3.0X
LPB 163.14 139 (PKP) 49 10.00 2.0
ZOBO 163.32 139 ePKP 49 10.00 1.7
S.D. = 0.9 on 85 of 92 obs.

OCT 30, 1990 07h 49m 40.02±0.68s
37.021 N ± 7.8km 29.526 E ± 7.3km
DEPTH = 21.6 ± 10.8 km
TURKEY (366)
MD 3.4 (ISK).
ELL 0.41 131 iPg 49 47.80 -0.9
eSg 49 56.00
KSL 0.90 177 eP 49 57.70 0.8
eS 50 13.00
BCK 0.96 62 iPn 49 58.00 0.2
CIN 1.28 297 ePg 50 02.00 -0.7
iSg 50 18.00
KHL 1.30 360 iPn 50 03.50 0.5
ALT 2.08 13 ePn 50 09.00 -5.4X
SMG 2.25 289 eP 50 16.50 -0.1
IZM 2.26 308 ePn 50 17.00 0.2
NPS 3.62 242 eP 50 23.70 -12.5X
S.D. = 0.9 on 7 of 9 obs.

OCT 30, 1990 08h 27m 47.66±0.72s
39.151 N ± 5.8km 20.570 E ± 6.7km
DEPTH = 13.6 ± 3.2 km
GREECE-ALBANIA BORDER REGION (392)
ML 3.7 (ATH).
IGT 0.42 334 ePc 27 54.32 -2.1
eS 28 01.84
SRN 0.85 329 iPg 28 03.20 -0.5
VLS 0.97 179 ePg 28 06.20 0.4
EVR 0.99 103 ePg 27 59.80 -6.4X
TPE 1.22 340 ePn 28 10.00 0.0
AGG 1.38 95 iPd 28 11.64 -0.8
eS 28 33.64
KZN 1.48 38 ePb 28 14.20 0.2
KBN 1.48 7 iPnd 28 16.00 2.1
BERA 1.62 343 eP 28 17.30 1.4
FNA 1.74 21 ePc 28 18.66 0.9
LIT 1.76 57 iPc 28 18.41 0.4
eS 28 41.40
OHR 1.97 5 iPn 28 23.10 2.1
iS 28 50.30
ITM 2.24 151 ePg 28 29.00 4.1X
TIR 2.26 346 ePn 28 26.50 1.4
GRG 2.29 37 ePd 28 26.16 0.6
PLG 2.53 60 ePb 28 29.50 0.5

30d 08h

PHP	2.54	358	iPnd	28	29.00	0.0
LACI	2.57	345	iPnc	28	29.00	0.3
VAY	2.65	35	iPn	28	31.70	0.9
KNT	2.69	41	iPd	28	30.85	-0.4
SOH	2.71	51	iPc	28	32.01	0.3
			eS	29	05.72	
			e	29	07.46	
ATH	2.73	115	ePb	28	32.20	0.3
SKO	2.89	13	iPn	28	34.70	0.5
			iSn	29	13.20	
KKS	2.92	358	ePn	28	36.80	2.3
PUK	2.93	350	ePn	28	32.50	-2.2
SRS	3.04	49	ePc	28	35.44	-0.7
VLI	3.07	142	ePn	28	37.70	1.1
BCI	3.23	353	ePn	28	40.36	1.3
ALN	4.55	66	iPc	28	56.66	-1.0

S.D. = 1.2 on 27 of 29 obs.

* OCT 30, 1990 08h 31m 34.76 ± 2.01s
 38.533 N ± 9.3km 25.324 E ± 21.7km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)

PRK	1.03	46	ePb	31	55.20	1.1
SMG	1.45	124	ePb	32	01.00	0.0
APE	1.47	174	ePb	32	01.60	0.3
EZN	1.51	31	ePn	32	01.00	-0.8
IZM	1.53	94	ePn	32	01.60	-0.5

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

% OCT 30, 1990 09h 02m 04.58 ± 1.96s
 41.421 N ± 12.8km 29.347 E ± 12.8km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.6 (ISK).

ISK	0.42	212	ePg	02	12.70	-0.4
HRT	0.65	158	ePg	02	17.70	0.1
IZI	1.09	175	ePn	02	24.70	-0.4
DMK	1.26	289	iPn	02	27.70	-0.3
KCT	1.39	213	iPn	02	30.20	0.2
BNT	1.52	226	ePn	02	32.80	1.0
EDC	1.55	227	ePn	02	32.00	-0.3

S.D. = 0.6 on 7 of 7 obs.

% OCT 30, 1990 09h 03m 06.47 ± 2.05s
 41.449 N ± 13.5km 29.340 E ± 13.5km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.6 (ISK).

ISK	0.44	209	ePg	03	15.20	-0.2
HRT	0.67	158	ePg	03	19.50	-0.4
IZI	1.12	175	ePn	03	28.00	0.6
DMK	1.24	288	iPn	03	29.60	0.0
BNT	1.53	225	ePn	03	34.30	0.4
EDC	1.57	226	iPn	03	34.00	-0.4

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

% OCT 30, 1990 09h 05m 10.49 ± 1.07s
 39.070 N ± 7.9km 27.649 E ± 13.0km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 MD 2.5 (ISK).

IZM	0.74	204	ePg	05	25.00	0.0
			eSg	05	37.60	
EZN	1.27	307	ePn	05	34.00	-0.1
EDC	1.29	7	iPn	05	34.00	-0.3
KCT	1.30	25	iPn	05	34.20	-0.3
BNT	1.30	9	iPn	05	35.30	0.7

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

* OCT 30, 1990 09h 46m 52.88 ± 0.95s
 36.745 N ± 13.4km 71.890 E ± 9.1km
 DEPTH = 33.0km (normal)
 4.7mb (6 obs.)
 AFGHANISTAN-USSR BORDER REGION (717)

QUE	7.73	214	eP	48	46.10	0.0
NDI	9.20	149	e(P)	48	48.00	-18.4X
GKN	13.85	125	P	50	09.82	0.6
	0.4s	21.00nm				5.2mb
KKN	14.41	124	P	50	17.16	0.5
	0.5s	16.00nm				4.8mb
DMN	14.42	125	P	50	16.74	0.0
	0.4s	14.00nm				4.8mb

PKI	14.64	125	P	50	19.66	-0.1
	0.4s	8.00nm				4.5mb
GUN	14.73	123	P	50	20.02	-1.0
	0.4s	13.00nm				4.7mb
NB2	44.62	323	P	55	03.60	0.0
	0.7s	1.80nm				4.0mb

S.D. = 0.6 on 7 of 8 obs.

OCT 30, 1990 11h 05m 22.95 ± 1.26s
 10.396 S ± 7.0km 124.137 E ± 6.9km
 DEPTH = 18.9 ± 10.7 km
 4.6mb (8 obs.)
 TIMOR (289)

KUPT	0.58	295	eP	05	34.00	-0.2
KNA	6.98	140	eP	07	07.70	1.0
			eS	08	17.00	
MTN	7.27	110	eP	07	11.80	0.9
	0.3s	55.00nm				6.2mb X
			eS	08	30.00	
MBL	11.47	201	iPc	08	08.40	-0.5
	0.3s	4.00nm				5.2mb
WB5	13.65	135	eP	08	37.10	-0.9
			eS	10	55.00	
NANU	14.64	213	eP	08	52.00	1.1
			eS	11	25.00	
WARB	15.88	172	eP	09	06.90	-0.3
	0.3s	4.00nm				4.1mb
			eS	11	51.00	
ASPA	16.15	146	eP	09	10.50	-0.2
	0.5s	8.00nm				4.1mb
			eS	11	56.80	

QIS 17.99 126 eP 09 33.00 -0.8
 eS 12 41.00
 CHTO 38.21 319 iP 12 44.20 0.7
 0.8s 2.01nm 4.0mb
 GUN 53.12 317 P 14 42.16 -0.1
 0.7s 13.00nm 5.0mb

PKI	53.22	316	P	14	42.54	-0.4
	0.6s	7.00nm				4.8mb
KKN	53.45	316	P	14	44.94	0.4
	0.6s	5.00nm				4.7mb
DMN	53.45	316	P	14	44.32	-0.3
GKN	54.02	316	P	14	48.36	-0.3
	0.5s	8.00nm				5.0mb

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

OCT 30, 1990 12h 30m 36.37 ± 0.58s
 63.013 N ± 7.0km 24.514 W ± 9.6km
 DEPTH = 5.0km (geophysicist)
 4.8mb (28 obs.) 4.5Msz (8 obs.)
 ICELAND REGION (637)

AKU	3.87	43	eP	31	35.60	-2.1
	0.9s	356.30nm				
			eS	32	36.10	
DAG	13.95	5	eP	33	57.00	0.3
	0.8s	4.48nm				4.3mb
FLN	19.45	126	eP	35	05.00	-1.4
	0.9s	16.40nm				4.3mb
Z	19s	4.50um				5.5Msz
GRR	19.63	127	eP	35	07.00	-1.4
LDF	19.73	126	eP	35	07.90	-1.6
LPF	19.86	128	eP	35	09.80	-1.0
	0.9s	21.30nm				4.5mb
KEV	21.09	49	eP	35	21.00	-2.4
SOD	21.36	56	iP	35	25.60	-0.6
MFF	21.40	129	eP	35	26.50	-0.3
	0.9s	29.50nm				4.7mb
TNS	21.89	110	ePc	35	35.70	3.9X
LSF	22.31	127	eP	35	37.20	1.3
LOR	22.33	122	eP	35	35.40	-0.8
	1.5s	83.55nm				5.0mb
Z	21s	2.25um				4.6Msz
SSF	22.37	122	eP	35	35.60	-0.9
	1.1s	35.40nm				4.7mb
TCF	22.52	126	eP	35	39.40	1.3
	1.3s	36.10nm				4.7mb
AVF	22.53	123	eP	35	37.40	-0.7
	1.3s	57.75nm				4.9mb
BGF	22.54	124	eP	35	37.60	-0.5
	1.3s	108.30nm				5.2mb
LBF	22.61	122	eP	35	38.40	-0.6
	1.3s	45.15nm				4.8mb
MAF	22.71	125	eP	35	39.70	-0.2
	1.2s	23.80nm				4.6mb
HAU	22.73	117	eP	35	40.40	0.3

	0.9s	21.30nm				4.6mb
Z	21s	1.48um				4.4Msz
CDF	22.79	115	eP	35	41.00	0.3
	0.9s	18.00nm				4.6mb
SMF	22.84	123	eP	35	39.90	-1.3
	1.1s	43.95nm				4.9mb
NUR	22.94	74	eP	35	30.00	-12.0X
MOX	22.96	106	eP	35	44.00	1.8
	1.7s	62.00nm				4.9mb
Z	21s	1.90um				4.5Msz
BSF	23.05	117	eP	35	43.70	0.4
CLL	23.09	103	eP	35	47.00	3.5X
	1.6s	40.00nm				4.7mb
Z	18s	1.00um				4.3Msz
RJF	23.11	128	eP	35	44.20	0.4
Z	22s	1.90um				4.5Msz
LFF	23.15	130	eP	35	44.30	0.2
	1.0s	30.00nm				4.8mb
GRF	23.48	108	eP	35	51.30	3.9X
	2.1s	77.00nm				4.9mb
Z	22s	0.90um				4.2Msz
BRG	23.82	103	eP	35	53.80	3.2X
	1.6s	42.00nm				4.8mb
PRU	24.72	103	eP	36	01.40	2.0
Z	14s	1.50um				4.6MszX
N	14s	0.70um				
E	14s	1.10um				
KSP	24.89	100	eP	35	56.00	-5.0X
LPL	24.90	120	eP	36	02.80	1.4
LPG	24.93	120	eP	36	03.30	1.6
	1.1s	15.85nm				4.6mb
KHC	24.93	106	P	36	03.00	1.6
WATA	25.43	111	i(P)	36	09.80	3.4X
FBA	45.73	330	iPc	38	59.50	0.0
IMA	45.98	334	iPc	39	04.60	2.9X
PMR	48.89	329	eP	39	28.20	3.9X
TTA	49.23	333	eP	39	26.70	-0.4
BW06	50.86	289	e(P)	39	35.00	-5.0X
ME0	52.53	274	iPd	39	52.00	-0.4
LKO	55.09	157	P	40	10.96	-0.5
	1.1s	18.50nm				5.0mb
NDI	69.92	66	eP	41	51.00	0.9
BJI	72.59	31	eP	42	08.00	2.0
	2.0s	44.00nm				5.2mb
Z	18s	0.29um				4.6Msz
LZH	72.99	42	e(P)	42	08.50	-0.2
	2.0s	29.00nm				5.0mb
Z	18s	0.44um				4.8Msz
GKN	73.54	61	P	42	12.32	0.3
	0.8s	25.00nm				5.3mb
KKN	73.99	60	P	42	15.20	0.5
	0.8s	24.00nm				5.3mb
DMN	74.08	60	P	42	15.54	0.3
	0.9s	32.00nm				5.4mb
GUN	74.12	60	P	42	16.28	0.7
	1.0s	64.00nm				5.6mb
PKI	74.24	60	P	42	16.70	0.5
	0.9s	11.00nm				4.9mb
CHG	87.31	52	eP	43	26.00	0.8
SPA	152.86	180	ePKP	50	25.00	-1.8
	1.0s	6.00nm				
			i	50	46.90	

S.D. = 1.1 on 42 of 52 obs.

* OCT 30, 1990 12h 54m 46.69 ± 0.77s
 63.102 N ± 8.2km 24.671 W ± 11.0km
 DEPTH = 5.0km (geophysicist)
 4.7mb (15 obs.) 3.9Msz (2 obs.)
 ICELAND REGION (637)

REY	1.62	49	iP	55	14.30	-1.6
			iS	55	35.80	
			iS	07	58.70	
LJO	2.69	67	eP	55	29.50	-1.9
DAG	13.87	6	eP	58	06.00	0.7
	0.6s	4.67nm				4.5mb
MFF	21.51	129	eP	59	37.50	-0.7
	1.3s	57.75nm				4.8mb
LOR	22.44	122	eP	59	46.80	-0.7
	0.9s	17.20nm				4.5mb
Z	20s	0.50um				3.9Msz
SSF	22.48	122	eP	59	47.00	-0.9
	0.9s	11.45nm				4.4mb
AVF	22.64	123	eP	59	48.70	-0.8
	1.1s	22.00nm				4.6mb
BGF	22.64	124	eP	59	48.90	-0.6
	1.1s	51.30nm				4.9mb

LBF 22.72 122 eP 59 49.70 -0.6
1.1s 23.20nm 4.6mb
MAF 22.82 125 eP 59 50.90 -0.4
1.1s 17.10nm 4.5mb
HAU 22.83 117 eP 59 51.50 0.1
1.0s 14.00nm 4.4mb
Z 20s 0.35um 3.8Msz
CDF 22.89 115 eP 59 52.20 0.2
SMF 22.95 122 eP 59 52.10 -0.4
1.0s 28.00nm 4.7mb
MOX 23.05 106 eP 59 56.00 2.5
BSF 23.15 117 eP 59 54.70 0.1
CLL 23.18 103 eP 59 57.00 2.3
KSP 24.98 100 eP 00 12.50 0.3
KHC 25.02 106 P 00 14.00 1.4
BW06 50.77 289 e(P) 03 48.80 -0.8
LKO 55.20 157 P 04 21.80 -0.8
GKN 73.56 60 P 06 22.90 0.5
0.6s 7.00nm 4.9mb
KKN 74.01 60 P 06 25.74 0.7
0.7s 10.00nm 5.0mb
DMN 74.10 60 P 06 26.34 0.7
0.7s 11.00nm 5.0mb
GUN 74.13 59 P 06 26.84 0.9
0.9s 20.00nm 5.1mb
PKI 74.25 60 P 06 27.28 0.6
0.9s 4.00nm 4.4mb

S.D. = 1.1 on 25 of 25 obs.

? OCT 30, 1990 13h 01m 30.94 ± 2.41s
3.146 S ± 14.5km 78.935 W ± 90.2km
DEPTH = 112.8 ± 58.4 km
PERU-ECUADOR BORDER REGION (110)

TUNG 1.78 16 P 02 02.00 -0.2
eS 02 23.00
VC1 2.55 12 P 02 12.40 0.2
GGP 2.97 7 eP 02 18.40 0.5
S 03 00.00
OUR 2.98 8 eP 02 20.80 2.9X
YANA 3.03 7 eP 02 18.50 -0.2
CAYA 3.34 17 eP 02 23.10 0.2
COTA 3.51 10 eP 02 24.60 -0.5
NNA 9.03 167 eP 03 40.00 0.0
0.4s 6.78nm 4.8mb X
SIV 21.72 127 P 06 26.00 11.7X
i 07 19.80

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

OCT 30, 1990 13h 07m 10.05 ± 0.35s
63.045 N ± 9.3km 24.588 W ± 6.2km
DEPTH = 5.0km (geophysicist)
4.7mb (18 obs.) 4.1Msz (2 obs.)
ICELAND REGION (637)

HAH 1.83 52 eP 07 32.00 -10.3X
LJO 2.68 66 eP 07 50.00 -4.6X
DAG 13.92 6 eP 10 31.00 1.0
0.9s 6.72nm 4.5mb
KEV 21.09 49 eP 11 44.00 -13.1X
SOD 21.37 56 eP 11 49.00 -11.0X
MFF 21.45 129 eP 12 00.90 0.0
1.1s 31.75nm 4.6mb
LOR 22.38 122 eP 12 10.00 -0.3
1.1s 26.85nm 4.6mb
Z 21s 0.75um 4.1Msz
SSF 22.41 122 eP 12 10.20 -0.4
1.1s 25.65nm 4.6mb
AVF 22.58 123 eP 12 11.80 -0.4
1.4s 52.30nm 4.8mb
BGF 22.58 124 eP 12 12.20 -0.1
1.0s 25.00nm 4.7mb
SUF 22.65 68 eP 11 54.00 -18.8X
LBF 22.66 122 eP 12 11.80 -1.3
1.2s 26.80nm 4.6mb
MAF 22.76 125 eP 12 14.80 0.8
1.1s 20.75nm 4.6mb
SMF 22.89 123 eP 12 14.50 -0.8
1.1s 40.30nm 4.9mb
MOX 23.00 106 eP 12 18.00 1.7
CLL 23.13 103 eP 12 23.00 5.4X
1.7s 41.00nm 4.7mb
RJF 23.16 128 eP 12 18.80 0.9
Z 21s 0.68um 4.1Msz
BRG 23.86 103 eP 12 24.50 -0.2
PRU 24.76 103 eP 12 34.00 0.5
Z 12s 0.70um 4.4MszX

KHC 24.97 106 eP 12 38.50 3.0
e 12 42.50
GBTN 45.22 262 P 15 31.00 1.4
FBA 45.68 330 P 15 23.30 -9.6X
FVM 46.14 269 P 15 35.70 -1.1
ELC 46.16 268 P 15 38.10 1.1
OLY 48.65 268 P 15 56.60 0.1
PMR 48.84 328 P 15 58.80 1.2
0.8s 6.03nm 4.7mb
TTA 49.19 333 P 15 58.70 -1.7
LRM 49.60 293 eP 16 03.50 -0.5
BW06 50.82 289 P 16 11.30 -2.1
0.7s 8.04nm 4.8mb
GLD 51.38 283 P 16 19.40 1.8
DAU 53.49 288 P 16 33.50 0.0
DUG 54.34 290 P 16 40.60 1.1
LKO 55.14 157 P 16 43.72 -1.7
ALO 55.91 281 eP 16 51.00 -0.1
1.0s 4.25nm 4.4mb
LZH 72.99 42 e(P) 18 41.50 -0.9
2.0s 29.00nm 5.0mb
GKN 73.56 61 P 18 44.82 -0.9
0.8s 20.00nm 5.2mb
KKN 74.00 60 P 18 47.86 -0.6
0.8s 31.00nm 5.4mb
DMN 74.10 60 P 18 48.62 -0.4
0.8s 29.00nm 5.3mb
GUN 74.13 60 P 18 49.08 -0.2
1.0s 43.00nm 5.4mb
PKI 74.25 60 P 18 49.26 -0.7

S.D. = 1.2 on 33 of 40 obs.

* OCT 30, 1990 13h 35m 52.09 ± 0.74s
63.347 N ± 12.2km 24.466 W ± 9.8km
DEPTH = 5.0km (geophysicist)
5.1mb (6 obs.) 4.0Msz (2 obs.)
ICELAND REGION (637)

REY 1.39 54 iP 36 18.40 0.3
iS 36 39.50
LJO 2.52 72 eP 36 31.20 -3.1X
AKU 3.62 47 eP 36 49.70 -0.1
1.0s 508.00nm
e 37 48.90
MOX 23.03 107 eP 41 03.00 4.3X
Z 22s 0.90um 4.2Msz
CLL 23.15 104 eP 41 04.00 4.2X
1.3s 17.00nm 4.4mb
GRF 23.57 109 eP 41 04.80 0.9
2.1s 49.00nm 4.7mb
Z 22s 0.40um 3.8Msz
KSP 24.93 101 eP 41 16.00 -1.1
KHC 25.00 107 eP 41 18.00 0.1
e 41 24.50
LRM 49.53 293 eP 44 45.60 0.1
GKN 73.36 61 P 47 26.32 -0.3
0.8s 16.00nm 5.1mb
KKN 73.80 60 P 47 29.42 0.1
0.8s 14.00nm 5.1mb
DMN 73.90 60 P 47 30.16 0.3
0.7s 19.00nm 5.2mb
GUN 73.93 60 P 47 29.88 -0.3
0.9s 51.00nm 5.5mb
PKI 74.05 60 P 47 31.00 0.1
VAO 87.87 201 (P) 49 16.00 32.6X

S.D. = 0.6 on 11 of 15 obs.

OCT 30, 1990 13h 57m 55.17 ± 0.60s
63.252 N ± 7.7km 24.509 W ± 8.1km
DEPTH = 5.0km (geophysicist)
4.9mb (21 obs.) 4.2Msz (5 obs.)
ICELAND REGION (637)

REY 1.46 51 iP 58 21.40 -0.8
iS 58 42.60
HAH 1.68 57 eP 58 23.60 -1.7
LJO 2.57 70 eP 58 35.40 -2.7
AKU 3.69 46 iP 58 53.60 -0.5
1.1s 865.82nm
e 59 52.90
DAG 13.71 6 eP 01 08.00 -4.4X
0.8s 5.97nm 4.6mb
KEV 20.93 50 eP 02 44.00 3.4X
MFF 21.55 129 eP 02 46.20 -0.9
1.1s 39.05nm 4.7mb
TNS 21.98 111 ePKPc 02 51.20 -0.2
LOR 22.46 122 eP 02 55.20 -1.0

1.2s 55.05nm 4.9mb
Z 21s 1.05um 4.2Msz
SSF 22.50 123 eP 02 55.60 -0.9
1.0s 24.00nm 4.6mb
TCF 22.66 126 eP 02 57.40 -0.8
AVF 22.66 124 eP 02 56.80 -1.4
BGF 22.67 125 eP 02 57.20 -1.1
1.0s 49.00nm 5.0mb
LBF 22.74 122 eP 02 58.00 -1.0
0.9s 19.65nm 4.6mb
HAU 22.84 117 eP 02 59.80 -0.1
Z 20s 0.68um 4.1Msz
MAF 22.85 126 eP 02 59.40 -0.6
1.3s 45.15nm 4.8mb
CDF 22.89 116 eP 03 00.60 0.1
1.1s 24.40nm 4.6mb
SMF 22.97 123 eP 03 00.50 -0.7
1.1s 37.85nm 4.8mb
MOX 23.02 106 eP 03 05.00 3.3X
Z 21s 1.10um 4.3Msz
CLL 23.15 103 eP 03 04.00 1.2
2.0s 40.00nm 4.6mb
BSF 23.15 117 eP 03 03.20 0.1
RJF 23.26 128 eP 03 04.00 0.0
0.9s 27.85nm 4.8mb
Z 21s 0.90um 4.2Msz
LFF 23.30 130 eP 03 04.40 0.0
0.9s 31.10nm 4.9mb
GRF 23.56 108 eP 03 09.00 2.1
2.4s 128.00nm 5.1mb
Z 22s 0.70um 4.1Msz
LPO 23.68 130 eP 03 08.30 0.2
BRG 23.87 103 iP 03 12.00 2.1
1.6s 42.00nm 4.8mb
i 03 19.50
e 03 34.70

PRU 24.78 104 Pd 03 20.70 2.0
e 03 49.50
KSP 24.93 101 eP 03 22.50 2.3
KHC 25.00 106 eP 03 20.00 -0.9
e 03 24.50
LPL 25.02 120 eP 03 22.30 0.9
LPG 25.05 120 eP 03 22.80 1.1
KRA 27.13 98 eP 03 41.40 0.9
Z 15s 1.10um 4.5MszX
LRM 49.55 293 eP 06 48.70 -0.1
BW06 50.79 289 e(P) 06 56.50 -1.7
LKO 55.31 157 P 07 29.92 -1.9
1.0s 15.00nm 5.0mb
LZH 72.81 42 eP 09 27.50 1.1
2.5s 58.00nm 5.2mb
GKN 73.42 61 P 09 30.90 0.8
i 0.9s 28.00nm 5.3mb
KKN 73.87 60 P 09 33.80 1.0
0.9s 42.00nm 5.5mb
DMN 73.96 60 P 09 34.68 1.3
0.8s 36.00nm 5.5mb
GUN 73.99 60 P 09 34.04 0.4
1.0s 46.00nm 5.5mb
PKI 74.11 60 P 09 35.24 0.9
1.1s 17.00nm 5.0mb
SIV 83.95 215 P 10 28.20 0.9
SPA 153.10 180 ePKP 17 45.50 -0.5
0.8s 3.75nm

S.D. = 1.2 on 40 of 43 obs.

OCT 30, 1990 14h 03m 35.63 ± 0.27s
63.116 N ± 6.5km 24.302 W ± 4.6km
DEPTH = 5.0km (geophysicist)
4.9mb (37 obs.) 4.4Msz (8 obs.)
ICELAND REGION (637)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 20C
Centroid Location:
Origin Time 14:03:43.5 1.7
Lat 63.59N 0.22 Lon 25.14W 0.21
Dep 15.0 FIX Half-duration 1.5
Moment Tensor: Scale 10¹⁶ Nm
Mrr=-2.84 0.36 Mtt= 0.33 0.58
Mff= 2.51 0.37 Mrt= 0.00 0.00
Mrf= 0.00 0.00 Mtf= 0.70 0.38
Principal Axes:
T Voi= 2.71 Ptg= 0 Azm=106
N 0.13 0 16
P -2.84 90 180
Best Double Couple: Mo=2.8*10¹⁶

30d 14h

NP1: Strike=196 Dip=45 Slip=-90
NP2: 16 45 -90

HAH	1.68	52 eP	04 03.70	-2.1
LJO	2.53	67 eP	04 15.70	-2.3
AKU	3.73	43 iP	04 33.30	-1.7
	1.8s	3127.27nm		
		e	05 33.20	
NB2	16.63	81 P	07 34.40	3.7X
	1.0s	6.90nm		3.7mb X
FLN	19.44	127 eP	08 03.90	-1.6
	1.0s	32.00nm		4.5mb
Z	20s	3.25um		3.9Msz
GRR	19.61	128 eP	08 05.60	-1.9
	1.2s	38.70nm		4.6mb
LDF	19.71	126 eP	08 06.80	-1.7
	1.2s	56.55nm		4.7mb
LPF	19.85	129 eP	08 08.60	-1.4
	1.0s	32.00nm		4.6mb
KEV	20.95	49 eP	08 23.00	1.8
SOD	21.22	56 iP	08 19.50	-4.6X
MFF	21.39	129 eP	08 25.00	-0.9
	1.1s	73.25nm		5.0mb
ABH	21.72	113 eP	08 30.36	1.1
TNS	21.84	111 ePc	08 31.50	1.0
LSF	22.29	127 eP	08 35.60	0.6
LOR	22.31	122 eP	08 34.10	-1.0
	1.2s	77.35nm		5.0mb
Z	21s	1.77um		4.5Msz
SSF	22.34	123 eP	08 34.40	-1.1
	1.2s	46.10nm		4.8mb
TCF	22.51	126 eP	08 37.90	0.8
	1.4s	84.95nm		5.0mb
AVF	22.51	124 eP	08 36.10	-1.0
	1.1s	30.50nm		4.7mb
BGF	22.51	125 eP	08 36.40	-0.8
	0.9s	40.95nm		4.9mb
LBF	22.59	122 eP	08 37.00	-0.9
	1.1s	34.20nm		4.8mb
HAU	22.69	117 eP	08 39.20	0.3
	1.5s	88.80nm		5.0mb
Z	20s	1.15um		4.3Msz
MAF	22.69	126 eP	08 39.60	0.6
	1.3s	43.30nm		4.8mb
CDF	22.74	116 eP	08 39.80	0.3
	1.0s	32.00nm		4.8mb
SMF	22.82	123 eP	08 39.40	-0.8
	1.0s	45.00nm		4.9mb
MOX	22.89	106 eP	08 43.00	2.1
	20s	1.70um		4.5Msz
BSF	23.01	117 eP	08 42.40	0.2
	1.7s	132.35nm		5.2mb
CLL	23.02	103 eP	08 44.00	1.9
	2.2s	92.00nm		4.9mb
Z	18s	1.00um		4.3Msz
RJF	23.10	128 eP	08 43.10	0.2
	1.2s	59.50nm		5.0mb
Z	22s	1.58um		4.4Msz
LFF	23.14	130 eP	08 42.40	-0.9
GRF	23.42	108 eP	08 48.90	2.8X
	2.1s	121.00nm		5.1mb
Z	22s	0.70um		4.1Msz
LPO	23.52	130 eP	08 47.40	0.4
	1.1s	26.85nm		4.7mb
CAF	23.62	128 eP	08 48.40	0.4
SLE	23.76	115 ePd	08 52.10	2.8X
ZLA	23.94	115 ePc	08 53.20	2.1
EMS	24.49	119 ePc	09 00.20	3.5X
PRU	24.65	104 eP	09 00.00	2.0
	13s	1.30um		4.6MszX
E	13s	1.10um		
		e	10 09.20	
KSP	24.82	101 eP	08 59.00	-0.5
		id	09 02.50	
KHC	24.87	106 eP	09 02.50	2.4
LPL	24.87	120 eP	09 01.40	1.0
LPG	24.90	120 eP	09 01.80	1.1
	1.1s	17.10nm		4.7mb
VDL	25.18	115 ePc	09 05.50	2.2
BNI	25.24	121 P	09 15.00	11.2X
OSS	25.30	114 ePd	09 07.60	3.2X
CTI	26.43	113 P	09 18.00	3.1X
FVI	26.48	111 P	09 20.00	4.9X
NAV	42.46	260 P	11 32.00	-0.8
GBTN	45.36	262 P	11 57.30	1.0
FBA	45.69	330 eP	11 57.80	-0.7
	0.9s	20.20nm		5.1mb

PRM	45.86	259 P	11 55.00	-5.2X
IMA	45.93	334 iPc	12 02.40	1.9
	1.4s	24.40nm		5.0mb
FVM	46.27	270 P	12 02.80	-0.6
OLY	48.79	269 P	12 22.30	-0.8
PMR	48.85	329 ePd	12 24.30	1.1
	1.6s	46.60nm		5.3mb
TTA	49.19	333 iPc	12 26.80	0.8
	0.9s	8.80nm		4.8mb
LRM	49.69	294 eP	12 30.80	0.5
SVW	50.74	332 eP	12 37.90	0.1
BW06	50.92	289 P	12 37.30	-2.4
	1.2s	18.84nm		4.9mb
MEO	52.61	274 iPc	12 51.30	-1.1
DUG	54.44	290 P	13 07.00	1.1
LKO	55.15	157 P	13 10.64	-0.5
	1.0s	15.50nm		5.0mb
MAIO	55.62	77 eP	13 16.00	1.5
ALO	56.03	281 eP	13 17.00	-0.5
	1.1s	6.33nm		4.6mb
TNP	58.07	292 P	13 30.70	-1.3
CMB	59.44	294 P	13 41.40	0.0
	1.0s	8.33nm		4.8mb
GSC	60.25	290 eP	13 48.00	1.0
ISA	60.66	291 eP	13 51.00	1.3
TPC	60.95	288 eP	13 53.00	1.3
SBB	61.21	290 eP	13 55.00	1.5
MWC	61.71	290 eP	13 56.00	-1.1
BCAO	66.37	132 iPc	14 26.90	-0.5
	0.7s	6.00nm		4.9mb
BJI	72.45	31 eP	15 02.50	-1.9
	2.0s	55.00nm		5.3mb
Z	18s	0.29um		4.6Msz
LZH	72.85	42 eP	15 06.50	-0.6
	2.5s	53.00nm		5.2mb
Z	18s	0.39um		4.7Msz
		i	15 47.50	
GKN	73.41	61 P	15 09.96	-0.5
	0.9s	29.00nm		5.4mb
KKN	73.85	60 P	15 13.00	-0.1
	0.8s	28.00nm		5.4mb
DMN	73.95	61 P	15 13.38	-0.3
	1.0s	49.00nm		5.5mb
GUN	73.98	60 P	15 14.26	0.2
	1.1s	95.00nm		5.7mb
PKI	74.10	60 P	15 14.06	-0.7
	1.0s	15.00nm		5.0mb
ZOBO	86.16	222 P	16 18.00	-1.4
CHG	87.17	52 eP	16 25.00	1.2
SPA	152.96	180 ePKP	23 25.60	-0.6
	1.0s	6.00nm		
		S.D. = 1.3 on 70 of 80 obs.		
		OCT 30, 1990 14h 40m 02.01 ± 0.74s		
		39.521 N ± 5.9km 26.162 E ± 7.9km		
		DEPTH = 6.3 ± 4.4 km		
		TURKEY (366)		
		MD 3.7 (ISK), 3.2 (ATH).		
PRK	0.29	163 ePg	40 06.20	-1.7
EZN	0.33	22 iPg	40 07.00	-1.7
I2M	1.41	142 iPn	40 28.30	0.0
EDC	1.55	57 ePn	40 30.00	-0.1
BNT	1.59	58 iPn	40 30.10	-0.6
RDO	1.69	344 ePn	40 33.00	0.8
		eSb	40 55.50	
KDZ	2.20	345 iP	40 39.00	-0.6
PLG	2.26	293 ePb	40 45.60	5.2X
CTT	2.38	46 ePn	40 43.00	0.9
RZN	2.43	334 eP	40 42.00	-1.0
DIM	2.57	350 iP	40 45.00	0.2
DMK	2.60	27 ePn	40 44.80	-0.4
ISK	2.70	54 ePn	40 51.00	4.3X
MMB	2.78	319 eP	40 51.00	3.2X
KHL	2.88	113 ePn	40 50.00	0.6
JMB	2.96	6 eP	40 57.00	6.6X
HRT	2.98	63 ePn	40 53.00	2.2X
ALT	3.10	97 ePn	40 54.00	1.6
VAY	3.28	304 ePn	41 06.40	11.5X
KK8	3.31	316 eP	40 57.00	1.6
PCB	3.38	334 eP	40 59.00	2.6X
PVL	3.75	351 eP	41 01.00	-0.5
VTS	3.79	325 eP	41 05.00	2.6X
		S.D. = 1.2 on 15 of 23 obs.		
		OCT 30, 1990 15h 47m 30.56 ± 1.15s		
		63.303 N ± 8.8km 24.148 W ± 15.7km		

DEPTH = 5.0km (geophysicist)
4.7mb (8 obs.) 4.2Msz (1 obs.)
ICELAND REGION (637)

REY	1.30	49 iP	47 55.70	0.6
		iS	48 17.60	
HAH	1.52	56 eP	47 58.20	-0.1
LJO	2.40	70 eP	48 10.00	-1.1
AKU	3.54	45 iP	48 27.80	0.5
	0.9s	255.46nm		
		eS	49 27.60	
LOR	22.35	123 eP	52 31.00	0.5
	1.0s	20.00nm		4.5mb
Z	21s	0.98um		4.2Msz
SSF	22.39	124 eP	52 31.40	0.6
	1.0s	16.00nm		4.4mb
MAF	22.75	126 eP	52 34.10	-0.3
	1.0s	13.00nm		4.4mb
CLL	23.00	104 eP	52 48.00	11.2X
	1.6s	21.00nm		
BRG	23.73	104 eP	52 58.80	14.9X
KHC	24.85	107 eP	53 01.00	6.1X
GKN	73.26	61 P	59 04.04	-0.5
	0.9s	11.00nm		4.9mb
KKN	73.70	61 P	59 06.92	-0.3
	0.7s	9.00nm		4.9mb
DMN	73.79	61 P	59 07.62	-0.1
	0.5s	10.00nm		5.1mb
GUN	73.83	60 P	59 08.30	0.2
	0.9s	33.00nm		5.4mb
PKI	73.95	61 P	59 08.74	0.0
	0.7s	3.00nm		4.4mb
		S.D. = 0.6 on 12 of 15 obs.		
		OCT 30, 1990 16h 01m 23.83 ± 0.69s		
		21.401 N ± 7.9km 121.742 E ± 22.6km		
		DEPTH = 33.0km (normal)		
		TAIWAN REGION (243)		
TWG	1.54	336 iPd	01 49.80	0.5
		eS	02 02.90	
TWF1	1.99	348 ePc	01 55.50	-0.3
TWK	2.19	328 iPd	01 58.50	-0.2
TWD	2.67	357 ePd	02 05.30	-0.1
TWO	2.98	344 eP	02 09.60	-0.3
TWC	3.20	2 ePd	02 13.20	0.3
WB5	42.84	162 eP	09 20.30	-0.4
WARB	47.54	174 eP	09 58.50	0.4
		S.D. = 0.4 on 8 of 8 obs.		
		OCT 30, 1990 17h 11m 32.72 ± 1.18s		
		37.788 N ± 9.2km 20.611 E ± 8.8km		
		DEPTH = 10.0km (geophysicist)		
		IONIAN SEA (399)		
		ML 3.7 (ATH).		
VLS	0.39	357 ePg	11 41.80	1.1
ITM	1.21	120 ePb	11 54.50	-0.8
EVR	1.47	40 iPg	12 02.20	2.9X
IGT	1.76	353 ePc	12 03.14	-0.2
		eS	12 34.30	
AGG	1.83	47 ePc	12 05.46	1.0
		eS	12 40.10	
KEK	2.02	342 ePg	12 12.00	4.7X
VLI	2.14	119 ePn	12 10.80	1.8
SRN	2.14	347 ePn	12 10.60	1.7
ATH	2.46	85 ePg	12 21.70	8.2X
TPE	2.55	350 ePn	12 13.00	-1.7
KZN	2.67	19 ePn	12 18.20	1.6
LIT	2.73	32 ePd	12 16.86	-0.6
		eS	13 00.58	
BERA	2.96	350 ePn	12 21.20	0.7
FNA	3.05	11 iPd	12 21.14	-0.8
		iS	13 00.02	
LCI	3.28	322 P	12 31.00	5.9X
		eSn	13 15.00	
OHR	3.32	2 ePn	12 27.50	1.7
		eSn	13 32.50	
PLG	3.40	40 ePn	12 27.70	0.9
GRG	3.46	23 ePc	12 26.78	-0.9
TIR	3.60	351 ePn	12 36.70	7.0X
ROI	3.63	301 P	12 29.30	-0.9
SOH	3.70	34 iPd	12 31.05	-0.2
VAM	3.74	128 ePb	12 37.00	5.3X
CZI	3.79	294 P	12 25.00	-7.4X
KNT	3.81	27 ePc	12 31.69	-1.0
VAY	3.84	23 ePn	12 32.00	-1.1

ORI 3.96 386 P 13 01.00 26.2X
 SRS 4.05 34 ePd 12 34.85 -1.2
 ATN 4.09 277 P 12 27.50 -9.1X
 eSn 13 04.70
 SKO 4.23 8 ePn 12 32.00 -6.6X
 PUK 4.29 353 ePn 12 41.50 2.1
 MMB 4.49 31 eP 12 42.00 -0.4
 KKB 4.50 24 eP 12 17.00 -25.4X
 BCI 4.59 355 ePn 12 45.50 1.8
 RZN 5.02 38 eP 12 50.00 0.0
 VTS 5.19 22 eP 12 52.00 -0.4
 KDZ 5.35 42 iP 12 53.00 -1.5
 SDI 6.54 389 P 13 14.00 2.7X
 PTJ 8.82 338 eP 13 40.50 -2.6
 S.D. = 1.3 on 26 of 38 obs.

& OCT 30, 1990 17h 22m 25.78s
 61.601 N 149.837 W
 DEPTH = 38.4km
 SOUTHERN ALASKA (2)
 <AGS-P>

PWA 0.05 338 iP 22 32.00 0.0
 eS 22 37.54
 PLRM 0.34 91 iP 22 33.58 -0.8
 eS 22 40.70
 PMS 0.38 159 iP 22 34.68 -0.3
 SUA 0.46 253 iP 22 35.53 -0.5
 eS 22 44.48
 GH0 0.47 68 iP 22 35.18 -0.9
 eS 22 43.59
 KNK 0.69 105 iP 22 38.30 -0.8
 eS 22 48.54
 SML 0.75 73 iP 22 38.67 -1.3
 CUT 0.83 346 eP 22 40.25 -0.8
 SKT 0.89 296 iP 22 41.01 -1.0
 eS 22 53.50
 CGLM 1.08 255 eP 22 44.40 -0.4
 NKA 1.10 219 eP 22 45.85 1.0
 SLKM 1.11 190 eP 22 44.17 -1.0
 NCG 1.13 261 iP 22 45.08 -0.4
 eS 22 59.13
 SPU 1.15 249 iP 22 45.14 -0.5
 eS 23 00.52
 CRP 1.16 254 eP 22 45.73 -0.3
 SCM 1.22 78 eP 22 45.78 -0.9
 eS 23 01.39
 CKL 1.27 252 eP 22 46.98 -0.5
 BGL 1.27 256 eP 22 47.07 -0.4
 HUR 1.39 4 eP 22 48.88 -0.1
 eS 23 06.27
 GLI 1.51 117 eP 22 49.45 -1.3
 eS 23 08.45
 SEW 1.51 173 eP 22 50.42 -0.4
 RDT 1.62 232 eP 22 51.52 -0.8
 KNIM 1.62 140 iP 22 50.15 -2.2
 VZW 1.67 108 eP 22 52.19 -0.9
 NNL 1.72 205 eP 22 53.70 -0.1
 VLZ 1.75 104 eP 22 52.80 -1.4
 TOA 1.81 72 eP 22 54.91 -0.2
 RSO 1.82 232 eP 22 54.75 -0.7
 RED 1.86 232 eP 22 55.05 -0.8
 RND 1.87 14 eP 22 55.34 -0.7
 KLU 1.88 92 iP 22 54.67 -1.5
 BRK 1.91 196 eP 22 56.63 0.0
 MTU 1.94 146 eP 22 54.89 -2.1
 CNPM 2.19 199 eP 23 00.31 -0.3
 SDG 2.22 63 eP 23 00.83 -0.2
 PAX 2.46 54 eP 23 04.07 -0.4
 GLB 2.89 91 eP 23 09.53 -1.0
 CCB 3.19 16 eP 23 12.47 -2.2
 TGL 3.50 101 eP 23 18.75 -0.5
 BALM 3.66 96 eP 23 20.10 -1.3
 40 obs. associated

OCT 30, 1990 17h 30m 30.90 ± 0.70s
 24.030 N ± 5.7km 121.571 E ± 10.6km
 DEPTH = 18.4 ± 9.3 km
 TAIWAN (244)

TWD 0.05 24 iPc 38 34.50 0.1
 eS 38 37.10
 TWC 0.63 24 ePd 38 43.20 0.1
 eS 38 52.20
 TWO 0.71 290 iPd 38 44.70 0.1
 TWF1 0.72 201 iPc 38 44.50 -0.2
 eS 38 54.40

TWZ 1.06 0 ePc 38 50.40 -0.1
 ANP 1.15 358 eP 38 52.10 0.0
 TWG 1.29 201 eP 38 54.20 0.2
 SSE 7.05 357 eP 40 11.30 -4.4X
 eLg 42 18.20

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

OCT 30, 1990 18h 24m 14.53 ± 0.91s
 34.835 N ± 9.6km 140.077 E ± 8.4km
 DEPTH = 141.1 ± 6.3 km
 4.9mb (4 obs.)
 NEAR EAST COAST OF HONSHU, JAPAN (220)

KAKJ 1.37 3 P 24 42.10 -0.2
 S 25 01.50
 CHJJ 1.50 324 iPd 24 43.40 -0.3
 S 25 04.10
 IIDJ 1.89 291 iPd 24 48.30 0.1
 S 25 13.00
 MAT 2.28 319 iPd 24 52.70 -0.3
 eS 25 20.00
 MTMJ 2.54 314 P 24 56.60 0.2
 eS 25 27.00
 NIJJ 2.55 340 P 24 56.30 -0.1
 S 25 28.20
 YAMJ 3.33 359 P 25 07.40 1.0
 eS 25 45.90
 TSRJ 3.42 283 P 25 06.90 -0.8
 WKYJ 3.75 262 P 25 12.00 -0.1
 S 25 54.00
 OFUJ 4.42 16 P 25 20.70 -0.2
 S 26 08.40
 TKSJ 5.06 262 P 25 30.20 0.8
 YONJ 5.44 276 P 25 34.80 0.2
 GUN 46.32 277 P 32 28.68 0.4
 0.6s 26.00nm 5.1mb
 PKI 46.84 277 P 32 31.90 -0.5
 0.5s 13.00nm 4.9mb
 KKN 46.86 277 P 32 32.28 -0.1
 0.6s 23.00nm 5.0mb
 DMN 47.07 277 P 32 34.20 0.1
 0.5s 9.00nm 4.7mb
 GKN 47.30 278 P 32 35.66 -0.1
 WB5 54.68 187 eP 33 31.00 0.0
 S.D. = 0.5 on 18 of 18 obs.

* OCT 30, 1990 19h 09m 34.00 ± 0.78s
 12.566 N ± 12.4km 48.253 E ± 9.7km
 DEPTH = 10.0km (geophysicist)
 4.7mb (4 obs.) 4.3MsZ (1 obs.)
 EASTERN GULF OF ADEN (415)

DHJN 6.04 318 eP 11 13.30 -3.9X
 KMSA 8.56 336 eP 11 33.30 -7.6X
 MJMA 13.51 348 eP 12 52.70 4.4X
 NAI 17.84 220 iPc 13 44.00 -0.3
 PRNI 21.53 327 eP 14 25.00 -0.5
 KER 21.71 357 eP 14 26.00 -1.4
 JVI 22.63 330 e(P) 14 35.00 -1.4
 MML 23.02 331 eP 14 42.00 1.7
 POO 25.35 73 eP 15 02.00 -0.9
 TAB 25.45 356 eP 15 07.00 3.1X
 MAIO 25.71 21 eP 15 11.00 4.8X
 1.3s 21.24nm 4.7mb
 eS 19 44.00
 GBA 28.44 85 P 15 35.00 3.8X
 1.2s 7.80nm 4.4mb
 GKN 37.25 60 P 16 48.54 0.5
 DMN 37.54 61 P 16 52.50 1.9
 0.9s 13.00nm 4.7mb
 KKN 37.74 61 P 16 51.56 -0.6
 0.8s 10.00nm 4.6mb
 PKI 37.79 61 P 16 52.26 -0.5
 GUN 38.28 61 P 16 52.36 -4.6X
 KRA 44.00 334 eP 17 43.30 0.1
 Z 14s 1.40um 5.0MsZ
 E 14s 1.90um
 e 17 52.30
 KHC 46.34 329 eP 18 02.50 0.6
 CLL 48.03 331 eP 18 16.00 0.8
 LZH 54.99 55 e(P) 19 27.00 18.8X
 2.0s 25.00nm
 Z 18s 0.24um 4.3MsZ
 91.05 357 eP 22 46.00 6.5X
 S.D. = 1.2 on 13 of 22 obs.

OCT 30, 1990 19h 15m 49.92 ± 0.39s

63.234 N ± 5.5km 24.308 W ± 5.6km
 DEPTH = 5.0km (geophysicist)
 4.8mb (37 obs.) 4.3MsZ (3 obs.)
 ICELAND REGION (637)

REY 1.40 49 iP 16 15.60 -0.5
 iS 16 36.90
 HAM 1.61 55 eP 16 18.00 -1.1
 LJO 2.49 69 eP 16 30.30 -1.4
 AKU 3.64 45 eP 16 47.00 -1.1
 0.9s 285.71nm
 iS 17 46.00
 DAG 13.72 5 eP 19 12.00 4.8X
 1.0s 8.00nm 4.6mb
 NB2 16.62 81 P 19 44.10 -0.7
 1.1s 9.00nm 3.8mb
 FLN 19.51 127 iPd 20 19.00 -1.6
 1.2s 47.60nm 4.6mb
 Z 22s 1.25um 4.1MsZ
 LDF 19.78 127 iPd 20 22.20 -1.3
 1.2s 38.70nm 4.6mb
 LPF 19.93 129 eP 20 23.30 -1.8
 1.2s 53.55nm 4.7mb
 MEM 20.57 114 P 20 33.20 1.5
 KEV 20.87 50 eP 20 31.00 -3.8X
 0.6s 17.00nm 4.6mb
 i 20 40.60
 SOD 21.16 56 iP 20 36.60 -1.1
 MFF 21.47 130 eP 20 39.80 -1.2
 1.2s 71.40nm 4.9mb
 ABH 21.77 113 eP 20 43.61 -0.4
 TNS 21.88 111 ePc 20 47.40 2.2
 LSF 22.36 127 iPd 20 51.20 1.2
 1.2s 47.60nm 4.8mb
 LOR 22.37 122 iPd 20 49.90 -0.2
 1.1s 56.15nm 4.9mb
 Z 22s 1.25um 4.3MsZ
 SSF 22.41 123 iPd 20 50.00 -0.4
 1.1s 36.65nm 4.8mb
 VITF 22.43 118 P 20 50.51 -0.1
 SUF 22.46 68 iP 20 53.00 2.2
 GWF 22.49 114 P 20 51.01 -0.3
 AVF 22.58 124 iPd 20 51.80 -0.3
 1.4s 69.70nm 5.0mb
 TCF 22.58 126 eP 20 52.50 0.4
 1.1s 26.85nm 4.6mb
 BGF 22.58 125 iPd 20 52.00 -0.2
 1.1s 48.85nm 4.9mb
 LBF 22.65 123 iPd 20 52.60 -0.3
 1.1s 42.75nm 4.9mb
 HAU 22.75 118 eP 20 53.60 -0.2
 1.2s 41.65nm 4.8mb
 Z 21s 0.82um 4.1MsZ
 MAF 22.76 126 eP 20 53.90 -0.1
 1.0s 23.00nm 4.6mb
 NUR 22.79 74 iP 20 36.60 -17.4X
 CDF 22.80 116 P 20 53.93 -0.4
 SMF 22.88 123 iPd 20 55.00 -0.1
 1.1s 53.70nm 5.0mb
 ECH 22.91 116 P 20 55.01 -0.3
 MOX 22.93 106 iP 20 59.00 3.5X
 1.3s 46.00nm 4.8mb
 CLL 23.05 104 eP 20 59.00 2.3
 1.7s 33.00nm 4.6mb
 BSF 23.06 117 P 20 56.14 -0.9
 RJF 23.17 129 eP 20 57.70 -0.2
 1.4s 61.00nm 5.0mb
 Z 21s 1.10um 4.3MsZ
 MOF 23.19 117 P 20 57.09 -1.1
 LFF 23.22 130 eP 20 58.40 0.0
 1.4s 69.70nm 5.0mb
 PYM 23.33 126 P 21 00.26 0.7
 PLDF 23.37 125 P 20 59.44 -0.5
 LOMF 23.47 118 P 20 59.29 -1.6
 LPO 23.60 130 eP 21 03.10 1.0
 1.2s 32.75nm 4.8mb
 CAF 23.69 128 eP 21 04.10 1.1
 1.3s 25.25nm 4.6mb
 BRG 23.78 103 iP 21 06.80 3.0X
 1.4s 26.00nm 4.6mb
 i 21 14.00
 i 21 24.10
 LBL 23.86 126 P 21 04.78 0.3
 PRU 24.69 104 eP 21 14.80 2.2
 Z 13s 1.00um 4.5MsZ
 e 22 24.00
 EPF 24.77 133 eP 21 14.00 0.5

30d 19h

KSP	0.9s	8.20nm	4.4mb	24.84	101 eP	21 13.50	-0.6
KHC	24.90	107 P	21 15.50	0.8			
LPL	24.94	121 eP	21 15.90	0.6			
	1.3s	27.10nm	4.8mb				
BNI	25.30	121 P	21 24.00	5.3X			
SOTA	25.36	112 iPd	21 22.40	3.2X			
	1.3s	26.40nm	4.8mb				
		i	21 42.70				
WATA	25.43	112 iPd	21 23.20	3.4X			
	1.1s	20.90nm	4.8mb				
VAI	25.45	117 P	21 24.00	4.1X			
CTI	26.48	113 P	21 33.00	3.4X			
FVI	26.52	111 P	21 33.50	3.7X			
KRA	27.03	98 eP	21 39.30	4.8X			
		e	21 50.30				
FBA	45.58	330 ePc	24 12.20	0.3			
	1.1s	15.63nm	4.9mb				
IMA	45.82	334 ePc	24 13.90	-0.1			
	1.2s	9.47nm	4.7mb				
PMR	48.75	329 e(P)	24 36.80	0.1			
TTA	49.08	333 e(P)	24 35.30	-4.1X			
BW06	50.88	289 iP	24 51.60	-2.1			
	0.8s	7.14nm	4.7mb				
MEO	52.60	274 iPc	25 05.30	-1.3			
LKO	55.26	157 P	25 24.04	-2.2			
	0.8s	11.50nm	5.0mb				
TIC	58.20	157 P	25 47.00	-0.1			
KIC	58.52	157 P	25 49.00	-0.4			
LIC	58.61	157 P	25 49.00	-0.1			
GKN	73.35	61 P	27 25.24	0.8			
	0.7s	25.00nm	5.4mb				
KKN	73.80	60 P	27 28.06	1.0			
	0.7s	34.00nm	5.5mb				
DMN	73.89	61 P	27 28.98	1.3			
	0.8s	41.00nm	5.5mb				
GUN	73.93	60 P	27 30.08	2.1			
	1.0s	71.00nm	5.7mb				
PKI	74.04	60 P	27 29.56	0.9			
	1.0s	15.00nm	5.0mb				
BAO	80.75	203 eP	28 07.50	1.9			
SIV	83.99	215 P	28 22.80	0.6			
ZOBO	86.24	222 P	28 35.00	0.9			
	Z 24s	0.06um	3.9MszX				
		LR	58 20.00				
SPA	153.08	180 ePKP	35 40.00	-0.7			
	1.0s	4.00nm					
		i	36 01.20				
			S.D. = 1.1 on 62 of 75 obs.				

* OCT 30, 1990 19h 41m 52.87 ± 0.74s
 44.612 N ± 6.6km 12.595 E ± 12.7km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.9 (VIE). MD 2.6 (TRI).

SFI	0.87	218 P	42 08.90	-0.7			
		eSg	42 21.60				
CRE	1.09	205 P	42 12.90	-0.5			
		eSg	42 28.90				
ARV	1.14	167 P	42 14.60	0.4			
		eSg	42 32.00				
TRI	1.37	37 iPg	42 18.70	0.7			
		i	42 34.50				
		iSg	42 39.30				
ASS	1.54	178 P	42 21.30	0.8			
		eSg	42 42.50				
CTI	1.58	335 P	42 22.10	1.0			
VOY	1.69	32 ePn	42 21.00	-1.7			
		ePg	42 24.20				
		eSn	42 46.50				
		eSg	42 49.30				
FVI	1.99	4 P	42 30.70	3.9X			
		eSn	42 55.60				
SOTA	2.78	340 i(Pg)	42 45.10	6.7X			
		iSn	43 12.20				
		iSg	43 21.20				
			S.D. = 1.2 on 7 of 9 obs.				

OCT 30, 1990 20h 08m 56.58 ± 0.74s
 38.070 N ± 5.8km 21.749 E ± 9.4km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 3.2 (ATH).

EVR	0.85	3 ePg	09 13.00	0.0			
ITM	0.90	171 ePg	09 12.50	-1.3			

VLS	0.92	277 iPg	09 13.50	-0.7			
AGG	1.05	25 ePd	09 16.52	0.0			
		eS	09 30.24				
ATH	1.56	93 ePb	09 25.00	0.7			
		eSb	09 47.50				
VLI	1.65	145 ePb	09 26.00	0.3			
IGT	1.83	323 ePc	09 32.25	3.9X			
		eS	10 01.60				
LIT	2.11	16 ePd	09 31.68	-0.7			
KZN	2.23	0 ePb	09 36.50	2.3			
PAIG	2.39	38 ePc	09 33.82	-2.5			
FNA	2.73	354 ePd	09 42.32	1.1			
		iS	10 16.42				
SOH	3.02	24 ePc	09 43.48	-1.8			
		eS	10 21.88				
OHR	3.13	347 ePn	09 54.30	7.5X			
VAM	3.31	143 ePn	09 51.00	1.6			
VAY	3.31	11 ePn	09 50.30	0.9			
SKO	3.91	357 ePn	09 58.00	0.1			
			S.D. = 1.4 on 14 of 16 obs.				

* OCT 30, 1990 20h 40m 09.02 ± 3.00s
 51.197 N ± 23.8km 15.973 E ± 16.2km
 DEPTH = 10.0km (geophysicist)
 POLAND (548)
 ML 3.4 (GRF), 3.2 (VKA).

KSP	0.41	150 iP	40 17.00	-0.4			
		iS	40 26.00				
		i	40 33.00				
BRG	1.32	257 iPg	40 32.50	-0.9			
		iSg	40 52.30				
PRU	1.52	218 Pg	40 37.40	1.2			
		eSn	40 54.00				
		Sg	41 01.00				
CLL	1.87	275 e(Pg)	40 42.00	0.7			
		eSg	41 07.00				
KHC	2.58	218 ePn	40 52.00	0.5			
		ePg	40 57.50				
		eSn	41 21.00				
		eSg	41 36.00				
MOX	2.81	260 ePg	41 00.00	5.2X			
		iSg	41 40.00				
WET	2.86	225 eP	40 55.00	-0.5			
VKA	2.94	175 ePg	41 06.80	10.1X			
		iSg	41 50.80				
ZST	3.09	166 eP	41 54.00	55.3X			
		e	42 30.00				
		e	42 41.70				
GRF	3.39	245 ePn	41 02.40	-0.6			
		ePg	41 15.10				
		eSg	42 00.30				
SPC	3.40	125 eP	41 31.40	28.0X			
			S.D. = 1.0 on 7 of 11 obs.				

OCT 30, 1990 21h 23m 36.78 ± 0.65s
 63.224 N ± 8.0km 24.405 W ± 9.9km
 DEPTH = 5.0km (geophysicist)
 4.7mb (15 obs.) 4.4Msz (4 obs.)
 ICELAND REGION (637)

HAH	1.66	56 eP	24 04.90	-1.7			
LJO	2.53	69 eP	24 16.00	-3.2X			
AKU	3.68	45 iP	24 34.00	-1.5			
	0.9s	322.69nm					
		eS	25 33.10				
FLN	19.54	127 eP	28 06.90	-0.9			
KEV	20.91	50 eP	28 18.00	-4.0X			
SOD	21.20	56 eP	28 20.00	-5.0X			
MFF	21.49	129 eP	28 28.00	-0.1			
	1.3s	61.35nm	4.8mb				
LSF	22.39	127 eP	28 37.60	0.5			
LOR	22.40	122 eP	28 36.20	-1.1			
	1.1s	31.75nm	4.7mb				
	Z 22s	0.17um	3.4Msz				
SSF	22.44	123 eP	28 36.30	-1.3			
	1.3s	37.90nm	4.7mb				
SUF	22.50	68 eP	28 40.00	1.9			
TCF	22.61	126 eP	28 38.80	-0.5			
	1.0s	16.00nm	4.5mb				
AVF	22.61	124 eP	28 38.20	-1.0			
	1.4s	39.20nm	4.7mb				
BGF	22.61	125 eP	28 38.50	-0.8			
	1.0s	30.00nm	4.7mb				
HAU	22.78	118 eP	28 40.20	-0.8			
	1.2s	29.75nm	4.7mb				
MAF	22.80	126 eP	28 40.60	-0.5			

CDF	1.4s	34.85nm	4.7mb	22.83	116 eP	28 41.40	-0.2
				1.0s	18.00nm		4.5mb
NUR	22.84	74 eP	28 47.00	5.7X			
SMF	22.91	123 eP	28 41.70	-0.6			
	1.0s	23.00nm	4.7mb				
MOX	22.97	106 eP	28 45.00	2.3			
	Z 20s	1.70um	4.5Msz				
CLL	23.09	104 e(P)	28 49.00	5.1X			
RJF	23.20	128 eP	28 44.20	-0.9			
GRF	23.50	108 eP	28 50.00	2.0			
	2.3s	105.00nm	5.0mb				
	Z 20s	1.00um	4.3Msz				
BRG	23.82	103 iP	28 52.20	1.2			
	1.6s	42.00nm	4.8mb				
PRU	24.73	104 ePd	29 01.20	1.4			
	Z 14s	1.00um	4.5MszX				
	N 13s	0.60um					
	E 13s	0.60um					
EPF	24.79	133 eP	29 00.50	-0.1			
KHC	24.94	107 P	29 04.00	2.0			
KRA	27.08	98 eP	29 24.30	2.6X			
	Z 16s	1.30um	4.6MszX				
	E 16s	2.20um					
		e	29 34.80				
FBA	45.57	330 eP	31 58.50	-0.2			
IMA	45.81	334 eP	32 00.40	-0.4			
	1.5s	12.80nm	4.7mb				
LKO	55.27	157 P	33 10.42	-2.7X			
	0.9s	11.50nm	4.9mb				
TNP	57.99	292 eP	33 33.00	0.4			
LZH	72.80	42 eP	35 07.50	-0.5			
	2.0s	32.00nm	5.1mb				
	Z 18s	0.34um	4.7Msz				
GKN	73.40	61 P	35 11.92	0.4			
KKN	73.84	60 P	35 14.70	0.5			
DMN	73.93	61 P	35 14.82	0.0			
GUN	73.97	60 P	35 15.66	0.5			
PKI	74.09	60 P	35 15.60	-0.2			
			S.D. = 1.1 on 31 of 38 obs.				

* OCT 30, 1990 21h 41m 08.62s
 60.069 N 152.045 W
 DEPTH = 66.8km
 SOUTHERN ALASKA (2)
 <AGS-P>.

NNL	0.38	94	iP	41	20.72	0.5
HOM	0.46	154	eP	41	20.84	-0.1
			eS	41	30.19	
RED	0.50	314	iP	41	20.87	-0.6
RSO	0.53	318	iP	41	21.29	-0.6
			iS	41	31.70	
RDT	0.54	341	iP	41	21.11	-0.7
			eS	41	31.33	
XLV	0.64	165	eP	41	22.04	-0.8
BRLK	0.66	117	eP	41	22.77	-0.3
CNPM	0.68	143	iP	41	22.74	-0.6
OPT	0.73	236	eP	41	23.14	-0.7
NKA	0.79	30	iP	41	25.72	1.2
AUE	0.98	224	eP	41	26.27	-0.7
SLKM	1.01	63	eP	41	26.30	-1.1
AUI	1.02	224	eP	41	26.91	-0.5
SPU	1.12	360	iP	41	28.39	-0.4
CKL	1.14	353	iP	41	28.62	-0.6
CRP	1.20	357	eP	41	29.74	-0.3
BGL	1.21	352	iP	41	29.60	-0.5
CGLM	1.24	1	iP	41	30.22	-0.3
SEW	1.30	87	eP	41	30.77	-0.4
NCG	1.34	358	eP	41	31.43	-0.4
CDD	1.40	216	eP	41	31.44	-1.2
MCNL	1.46	234	eP	41	32.41	-1.0
SUA	1.54	24	eP	41	34.26	-0.3
PMS	1.70	45	iP	41	36.40	-0.3
SKT	1.93	7	eP	41	38.95	-1.0
PLRM	2.09	42	eP	41	40.55	-1.5
KNIM	2.17	81	iP	41	40.28	-2.9
MTU	2.21	90	eP	41	41.77	-1.9
KNK	2.22	51	eP	41	42.22	-1.6
29 obs. associated						

CNPM	0.39	298	iP	43 44.84	-0.3
			eS	43 51.07	
BRK	0.46	338	iP	43 45.77	-0.4
XLV	0.61	281	eP	43 47.55	-1.2
HOM	0.64	300	eP	43 49.41	0.2
			eS	43 57.82	
NNL	0.80	332	eP	43 51.63	-0.3
SEW	0.95	36	eP	43 53.17	-1.3
			eS	44 05.73	
SLKM	1.18	8	iP	43 56.58	-1.8
OPT	1.40	284	eP	44 00.29	-1.2
AUE	1.44	272	eP	44 01.22	-0.8
AUI	1.47	271	eP	44 01.50	-1.0
AUH	1.48	272	eP	44 02.16	-0.5
RDT	1.55	324	eP	44 01.80	-1.9
			eS	44 21.06	
RED	1.55	315	eP	44 01.32	-2.5
RSO	1.58	316	eP	44 02.82	-1.4
CDD	1.64	257	eP	44 03.25	-1.8
KNIM	1.74	53	eP	44 07.58	1.1
PMS	1.97	14	eP	44 07.91	-1.9
SPU	1.99	339	eP	44 08.16	-1.9
CKL	2.06	335	eP	44 09.67	-1.5
CRP	2.09	338	eP	44 10.26	-1.4
CGLM	2.10	341	eP	44 10.18	-1.5
BGL	2.13	335	eP	44 10.79	-1.4
NGC	2.22	340	eP	44 11.56	-1.8
GHO	2.57	18	eP	44 17.00	-1.4
SKT	2.69	350	eP	44 17.86	-2.2
KLU	3.15	45	eP	44 23.86	-2.8

26 obs. associated

* OCT 30, 1990 22h 10m 29.51s
59.863 N 153.430 W

DEPTH = 131.1km

SOUTHERN ALASKA

<AGS-P>

(2)

OPT	0.23	154	iP	10 47.09	0.8
PDB	0.39	259	iP	10 47.31	-1.1
			eS	11 01.10	
AUH	0.50	181	eP	10 48.34	-0.7
AUE	0.51	177	iP	10 48.10	-0.8
AUI	0.53	180	eP	10 48.14	-1.0
RED	0.65	30	eP	10 49.18	-0.8
RSO	0.69	29	eP	10 49.77	-0.7
			eS	11 05.09	
RDT	0.88	35	iP	10 50.97	-0.8
HOM	0.93	102	eP	10 51.43	-0.7
CDD	0.94	187	iP	10 51.18	-1.1
XLV	0.96	115	eP	10 51.33	-1.1
NNL	1.09	80	eP	10 53.63	0.0
CNPM	1.16	106	iP	10 53.25	-1.2
			eS	11 11.25	
BRK	1.29	93	eP	10 54.68	-1.1
NKA	1.40	50	eP	10 58.34	1.4
CKL	1.44	22	iP	10 57.04	-0.5
			eS	11 18.88	
SPU	1.49	27	eP	10 57.20	-0.8
BGL	1.50	20	eP	10 57.85	-0.3
CRP	1.54	24	eP	10 57.85	-0.9
CGLM	1.61	25	eP	10 58.84	-0.6
NGC	1.67	22	eP	10 59.70	-0.4
SLKM	1.73	67	eP	10 59.98	-0.7
SEW	2.02	81	eP	11 02.71	-1.4
SUA	2.08	38	eP	11 04.36	-0.7
SKT	2.32	23	eP	11 06.94	-1.0
PMS	2.36	52	eP	11 07.24	-1.3
KNIM	2.89	78	eP	11 13.45	-1.9
KNK	2.90	55	eP	11 13.18	-2.3
MTU	2.91	85	eP	11 14.40	-1.2
GHO	2.92	47	eP	11 13.60	-2.2
CUT	2.98	30	eP	11 15.55	-0.9
SML	3.17	50	eP	11 16.15	-2.9
VLZ	3.73	67	eP	11 24.69	-1.8
KLU	4.04	63	eP	11 28.08	-2.6
GLB	4.99	67	eP	11 41.69	-1.8

35 obs. associated

* OCT 30, 1990 23h 08m 59.01±0.75s
40.085 S ±11.8km 78.294 E ±16.9km
DEPTH = 10.0km (geophysicist)

4.7mb (5 obs.) 4.9Msz (2 obs.)

MID-INDIAN RISE

(429)

ASPA	49.20	88	eP	17 49.90	-0.3
	0.9s		7.50nm		4.7mb

Z	21s	1.10um	4.8Msz		
SPA	50.11	180 iPc	17 56.70	-0.1	
	1.0s	15.00nm		4.9mb	
Z	20s	1.31um	4.9Msz		
STK	50.92	102 eP	18 04.00	0.8	
	1.1s	8.00nm		4.6mb	
WB5	51.70	84 eP	18 08.80	-0.5	
GBA	53.42	359 Pd	18 21.90	0.0	
	0.6s	1.50nm		4.1mb	
PKI	67.63	7 P	19 58.82	-0.4	
DMN	67.64	7 P	19 59.96	0.8	
KKN	67.84	7 P	20 00.12	-0.3	
GKN	67.99	6 P	20 01.00	-0.3	
GUN	68.01	7 P	20 01.94	0.3	
BCAO	70.37	294 iPc	20 24.10	8.1X	
	0.6s	8.00nm		5.0mb	

S.D. = 0.5 on 10 of 11 obs.

* OCT 30, 1990 23h 10m 04.62±1.00s
63.197 N ±10.4km 24.378 W ±14.0km
DEPTH = 5.0km (geophysicist)
4.6mb (9 obs.) 3.6Msz (2 obs.)
ICELAND REGION (637)

REY	1.45	48 iP	10 31.00	-0.5	
		iS	10 52.20		
AKU	3.69	45 iP	11 02.40	-1.1	
	0.9s	144.54nm			
		iS	12 01.60		
DAG	13.76	5 eP	13 29.00	6.5X	
	0.9s	5.88nm		4.5mb	
MFF	21.47	129 eP	14 54.80	-0.9	
	1.2s	29.75nm		4.6mb	
LOR	22.38	122 eP	15 04.40	-0.5	
	1.4s	47.90nm		4.8mb	
Z	20s	0.30um	3.7Msz		
SSF	22.42	123 eP	15 04.50	-0.7	
	1.2s	20.25nm		4.6mb	
AVF	22.58	124 eP	15 06.00	-0.8	
BGF	22.59	125 eP	15 06.30	-0.6	
	1.0s	19.00nm		4.5mb	
HAU	22.76	118 eP	15 08.40	-0.2	
	1.2s	20.85nm		4.5mb	
Z	21s	0.22um	3.6Msz		
MAF	22.77	126 eP	15 08.50	-0.2	
	1.2s	20.85nm		4.5mb	
MOX	22.95	106 eP	15 12.00	1.6	
CLL	23.07	104 e(P)	15 19.00	7.4X	
RJF	23.17	128 eP	15 12.20	-0.5	
BRG	23.80	103 eP	15 20.00	1.3	
	1.4s	24.00nm		4.6mb	
		i	15 38.60		
KSP	24.87	101 eP	15 31.00	2.0	
KHC	24.92	107 P	15 32.50	2.9X	
KRA	27.06	98 eP	15 48.80	-0.6	
LRM	49.62	293 eP	18 58.80	0.0	
LZH	72.81	42 e(P)	21 33.50	-2.4	
	2.0s	29.00nm		5.0mb	
GKN	73.40	61 P	21 40.00	0.6	
KKN	73.84	60 P	21 43.00	0.9	
GUN	73.97	60 P	21 45.50	2.5	

S.D. = 1.3 on 19 of 22 obs.

* OCT 31, 1990 00h 43m 46.93±1.43s
31.573 S ±16.2km 70.190 W ±13.5km
DEPTH = 120.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

RTBS	0.63	98 iPd	44 06.70	0.7	
JACH	1.16	197 iP	44 11.20	0.2	
		iS	44 28.00		
RTCB	1.19	06 ePd	44 11.10	-0.2	
		S	44 28.20		
RTCV	1.44	102 ePd	44 13.90	-0.1	
RTLL	1.49	81 ePd	44 14.40	-0.3	
ROCH	1.56	206 iP	44 16.00	0.3	
		iS	44 36.50		
PEL	1.62	195 iPc	44 16.20	0.0	
		iS	44 36.70		
MDZ	1.73	139 iP	44 17.50	-0.1	
		iS	44 39.80		
FCH	1.75	183 iPc	44 10.60	0.5	
		iS	44 41.70		
PCH	2.06	188 iPc	44 22.00	0.3	
		iS	44 47.50		
TACH	2.17	197 iP	44 22.70	-0.3	
		iS	44 49.10		

CHCH	2.39	189 iPd	44 25.80	0.0	
		iS	44 54.00		
LNV	2.59	203 iP	44 27.50	-0.9	
		iS	44 57.00		

S.D. = 0.5 on 13 of 13 obs.

OCT 31, 1990 00h 51m 43.36±0.51s
63.221 N ±6.0km 24.352 W ±7.1km
DEPTH = 5.0km (geophysicist)
5.0mb (27 obs.) 4.2Msz (5 obs.)
ICELAND REGION (637)

REY	1.43	49 eP	52 09.00	-0.9	
		iS	52 29.70		
HAH	1.64	55 eP	52 10.80	-2.1	
LJO	2.51	69 eP	52 23.00	-2.5	
AKU	3.67	45 eP	52 40.30	-1.6	
	1.0s	436.00nm			
		iS	53 38.90		
APD	18.06	81 eP	55 58.70	2.5	
	0.5s	0.50nm		2.9mb	X
KEV	20.90	50 eP	56 30.00	1.6	
SOD	21.18	56 iP	56 32.20	0.8	
MFF	21.47	129 eP	56 34.20	-0.3	
	1.1s	61.05nm		4.9mb	
TNS	21.90	111 ePc	56 38.70	-0.1	
LSF	22.37	127 eP	56 43.40	-0.1	
LOR	22.38	122 eP	56 43.30	-0.3	
	1.5s	133.20nm		5.2mb	
Z	21s	0.95um		4.2Msz	
SSF	22.42	123 eP	56 43.60	-0.4	
	1.4s	76.25nm		5.0mb	
VITF	22.44	118 P	56 42.65	-1.5	
SUF	22.48	68 eP	56 46.00	1.6	
GWf	22.51	114 P	56 43.43	-1.4	
TCF	22.59	126 eP	56 45.60	-0.1	
	1.2s	29.75nm		4.7mb	
AVF	22.59	124 eP	56 45.20	-0.4	
	1.4s	52.30nm		4.8mb	
BGF	22.59	125 eP	56 45.40	-0.3	
	1.4s	91.50nm		5.1mb	
LBF	22.66	123 eP	56 46.00	-0.4	
	1.5s	62.70nm		4.9mb	
HAU	22.76	118 eP	56 48.20	0.9	
Z	20s	0.68um		4.1Msz	
MAF	22.77	126 eP	56 48.20	0.7	
CDF	22.81	116 P	56 46.16	-1.8	
WLS	22.84	116 P	56 46.25	-1.9	
SMF	22.89	123 eP	56 48.40	-0.3	
	1.2s	40.15nm		4.8mb	
ECH	22.92	116 P	56 46.88	-2.0	
MOX	22.94	106 eP	56 49.00	-0.1	
	1.6s	37.00nm		4.7mb	
Z	20s	1.10um		4.3Msz	
CLL	23.07	104 eP	56 52.00	1.7	
	2.0s	60.00nm		4.8mb	
BSF	23.08	117 eP	56 51.60	1.0	
	1.5s	78.35nm		5.0mb	
BSF	23.08	117 P	56 48.23	-2.3	
RJF	23.18	129 eP	56 52.00	0.5	
Z	21s	0.85um		4.2Msz	
MOF	23.20	117 P	56 47.86	-3.9X	
LOMF	23.48	118 P	56 50.48	-3.9X	
GRF	23.48	109 iPc	56 55.40	1.1	
	2.0s	95.00nm		5.0mb	
Z	21s	0.40um		3.9Msz	
BBS	23.66	117 P	56 52.54	-3.6X	
BRG	23.80	103 eP	56 57.40	0.0	
	1.4s	36.00nm		4.8mb	
		e	57 09.00		
SLE	23.82	115 ePc	56 58.50	0.8	
ZLA	24.00	116 ePd	57 00.90	1.4	
EMS	24.57	120 ePc	57 06.50	1.4	
PRU	24.70	104 Pc	57 06.80	0.6	
	2.3s	80.50nm		5.0mb	
Z	14s	0.80um		4.4Msz	X
KSP	24.86	101 iPc	57 08.00	0.3	
KHC	24.92	107 P	57 09.50	1.2	
		e	57 11.30		
VDL	25.24	116 ePd	57 13.40	1.8	
BNI	25.31	121 P	57 27.00	14.8X	
SQTA	25.38	112 iPc	57 11.80	-1.0	
	1.3s	23.70nm		4.7mb	
		i	57 35.70		
WATA	25.44	112 eP	57 14.00	0.6	
	1.3s	24.10nm		4.7mb	
VAI	25.46	117 P	57 19.00	5.6X	

31d 00h

MDI	25.92	116	P	57	17.00	-0.6
TOL	26.33	143	eP	57	23.00	1.5
CTI	26.50	113	P	57	23.50	0.3
FVI	26.54	111	P	57	24.00	0.7
KRA	27.05	98	eP	57	27.30	-0.8
Z	16s	1.30um			4.6MszX	
E	16s	1.60um				
ZST	27.16	104	eP	57	29.90	
SPC	27.82	99	eP	57	32.80	3.7X
			e	01	53.70	-0.4
MBC	31.11	333	eP	58	05.00	0.8
	1.5s	16.00nm			4.7mb	
FBA	45.58	330	eP	00	05.30	-0.1
IMA	45.82	334	eP	00	07.30	-0.1
	1.8s	32.30nm			5.0mb	
JVI	48.43	101	eP	00	28.00	-0.1
PRNI	49.63	103	eP	00	38.00	0.6
LKO	55.26	157	P	01	17.76	-1.9
	1.1s	18.50nm			5.0mb	
ALO	55.98	281	eP	01	23.30	-1.7
	1.0s	3.75nm			4.4mb	
QUE	64.08	74	eP	02	21.40	0.9
BCAO	66.46	132	iPd	02	34.80	-0.9
	0.6s	7.00nm			5.0mb	
LZH	72.79	42	e(P)	03	14.00	-0.5
	1.8s	35.00nm			5.2mb	
GKN	73.38	61	P	03	18.60	0.6
	1.0s	42.00nm			5.5mb	
KKN	73.82	60	P	03	21.22	0.5
	0.9s	34.00nm			5.4mb	
DMN	73.91	61	P	03	22.46	1.2
	1.0s	42.00nm			5.4mb	
GUN	73.95	60	P	03	22.22	0.6
	0.9s	46.00nm			5.5mb	
PKI	74.07	60	P	03	22.88	0.6
	1.3s	26.00nm			5.1mb	
SIV	83.96	215	P	04	15.80	0.3
	S.D. = 1.2	on 63	of 69	obs.		

& OCT 31, 1990 01h 03m 06.90s
34.167 N 117.633 W
DEPTH = 6.0km (geophysicist)
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.9 (PAS). Felt (IV)
at Mt. Baldy and (II) at Rancho
Cucamonga.

PEM	0.20	270	iPc	03	10.94	0.0
			S	03	13.74	
MWC	0.36	279	iPc	03	13.74	-0.4
			S	03	18.62	
VPD	0.37	197	eP	03	14.39	0.1
			S	03	19.73	
PEC	0.48	125	iPd	03	15.80	-0.7
PVPS	0.74	240	eP	03	20.54	-1.2
			S	03	31.12	
PLM	1.04	141	iPd	03	25.60	-1.3
CIW	1.04	228	eP	03	25.35	-1.5
			S	03	39.31	
ABL	1.48	298	eP	03	32.80	-1.5
BCH	2.26	297	eP	03	44.20	-1.3
BLP	2.32	281	e(P)	03	42.50	-3.8
TNP	3.92	5	e(P)	04	10.00	0.8
	11	obs.	associated			

OCT 31, 1990 02h 11m 52.51 ± 1.46s
8.738 S ± 7.6km 124.065 E ± 7.6km
DEPTH = 49.3 ± 14.6 km
4.8mb (9 obs.) 4.7Msz (1 obs.)
TIMOR (289)

KUPT	1.48	198	ePc	12	16.80	-0.3
			eS	12	28.00	
MTN	8.05	121	iPd	13	50.30	0.7
KNA	8.35	147	eP	13	53.10	-0.6
	0.2s	118.00nm			6.4mb X	
			eS	15	17.00	
TRT	11.36	274	ePc	14	45.50	10.5X
MBL	13.01	198	eP	14	57.00	0.1
	0.3s	6.00nm			5.1mb	
			eS	17	13.00	
WB5	14.90	139	eP	15	17.50	-4.3X
			eS	17	51.00	
NANU	16.00	210	eP	15	37.50	1.6
	0.3s	7.00nm			4.3mb	
			eS	18	13.00	

WARB	17.52	172	eP	15	55.90	0.9
	0.4s	22.00nm			4.6mb	
			eS	18	59.00	
ASPA	17.58	149	iPd	15	54.10	-1.6
	0.4s	64.50nm			5.1mb	
			eS	18	51.30	
MEKA	18.54	196	eP	16	07.00	-0.5
			eS	19	25.00	
QIS	19.06	130	iPc	16	13.60	-0.2
	0.2s	19.00nm			5.0mb	
			iS	19	31.50	
MRWA	21.74	199	eP	16	41.70	0.1
			eS	20	40.00	
COOL	22.20	187	eP	16	45.00	-1.2
FORR	22.32	171	iPc	16	46.20	-1.1
BAL	22.82	197	iPd	16	52.80	0.6
	0.4s	15.00nm			4.8mb	
KLB	23.48	194	iPc	16	59.40	0.7
			eS	21	16.00	
CTA	24.24	120	eP	17	08.00	1.9
MUN	24.25	196	iPc	17	06.20	0.1
			eS	21	38.70	
NWAO	24.89	194	eP	17	12.00	-0.2
	0.5s	7.00nm			4.4mb	
RKG	26.03	193	eP	17	27.50	4.6X
GUN	51.88	316	P	20	59.14	0.3
PKI	51.99	315	P	20	59.54	-0.1
	0.5s	9.00nm			5.0mb	
KKN	52.21	315	P	21	01.38	0.1
DMN	52.22	315	P	21	00.38	-1.0
	0.5s	5.00nm			4.8mb	
GKN	52.79	315	P	21	05.42	0.0
ZOBO	152.38	154	PKP	31	47.00	7.8X
	Z 20s	0.12um			4.7Msz	
		LR		36	34.00	
	S.D. = 0.9	on 22	of 26	obs.		

& OCT 31, 1990 02h 42m 01.70s
40.352 N 124.495 W
DEPTH = 30.0km
NEAR COAST OF NORTHERN CALIF. (35)
<BRK>. ML 2.9 (BRK).

FHC	0.59	41	iPc	42	12.50	-1.2
			iS	42	20.00	
WDC	1.51	81	iPc	42	25.40	-1.6
			eS	42	44.00	
LTCM	1.82	94	eP	42	38.00	-1.4
MIN	2.21	89	eP	42	35.00	-2.2
LBFM	2.21	62	eP	42	36.60	-0.7
ORV	2.44	108	eP	42	38.30	-2.0
ARN	3.79	141	e(P)	42	57.60	-1.8
	7	obs.	associated			

* OCT 31, 1990 03h 44m 17.30 ± 1.43s
63.303 N ± 8.5km 24.153 W ± 19.5km
DEPTH = 5.0km (geophysicist)
4.7mb (12 obs.) 4.0Msz (3 obs.)
ICELAND REGION (637)

AKU	3.54	45	iP	45	11.70	-2.3
	0.9s	225.21nm				
			iS	46	15.10	
NB2	16.54	B2	P	48	12.40	1.2
	1.4s	9.30nm			3.7mb	
LOR	22.35	123	eP	49	16.60	-0.6
	1.2s	38.70nm			4.7mb	
Z	21s	0.60um			4.0Msz	
SSF	22.39	124	eP	49	16.80	-0.8
	1.2s	29.75nm			4.6mb	
AVF	22.56	124	eP	49	18.50	-0.8
TCF	22.56	127	eP	49	19.10	-0.3
	1.3s	25.25nm			4.5mb	
BGF	22.57	125	eP	49	18.60	-0.8
	1.1s	29.30nm			4.7mb	
LBF	22.63	123	eP	49	19.30	-0.8
	1.3s	30.70nm			4.6mb	
HAU	22.72	118	eP	49	21.20	0.3
	Z 21s	0.45um			3.9Msz	
MAF	22.75	126	eP	49	21.40	0.2
CDF	22.76	116	eP	49	21.90	0.5
SMF	22.86	124	eP	49	21.70	-0.6
	1.1s	22.00nm			4.6mb	
MOX	22.88	107	eP	49	23.00	0.6
CLL	23.00	104	eP	49	25.00	1.4
	2.1s	50.00nm			4.7mb	
BSF	23.03	118	eP	49	24.80	0.7

RJF	23.16	129	eP	49	23.90	-1.3
	Z 21s	0.52um			4.0Msz	
BRG	23.73	104	eP	49	30.50	-0.1
	2.0s	44.00nm			4.7mb	
PRU	24.64	105	Pc	49	40.00	0.6
	Z 12s	0.60um			4.3MszX	
EPF	24.77	133	eP	49	41.00	0.2
KSP	24.79	101	eP	49	41.00	0.1
KHC	24.86	107	P	49	42.50	0.8
LKO	55.30	158	P	53	48.78	-5.1X
	1.0s	16.00nm			5.0mb	
GKN	73.26	61	P	55	50.94	-0.3
	1.0s	18.00nm			5.1mb	
KKN	73.70	61	P	55	54.38	0.5
	0.9s	22.00nm			5.2mb	
OMN	73.80	61	P	55	54.62	0.1
GUN	73.83	60	P	55	56.14	1.3
PKI	73.95	61	P	55	55.92	0.4
	S.D. = 0.9	on 26	of 27	obs.		

* OCT 31, 1990 04h 00m 45.01 ± 1.51s
63.294 N ± 9.0km 24.638 W ± 21.2km
DEPTH = 5.0km (geophysicist)
4.8mb (13 obs.) 4.0Msz (3 obs.)
ICELAND REGION (637)

REY	1.48	54	iP	01	12.60	0.3
			iS	01	32.80	
LJO	2.61	71	eP	01	22.80	-5.7X
AKU	3.71	47	iP	01	43.10	-1.0
	0.9s	154.62nm				
			iS	02	40.40	
LSF	22.52	127	eP	05	46.90	0.3
	1.2s	26.80nm			4.6mb	
LOR	22.53	122	eP	05	46.90	0.2
	1.4s	43.55nm			4.7mb	
Z	20s	0.57um			4.0Msz	
SSF	22.57	123	eP	05	47.00	-0.1
	1.2s	20.85nm			4.5mb	
AVF	22.74	123	eP	05	48.60	-0.1
BGF	22.74	125				

APE 3.23 284 eP 16 48.00 3.0X
 NPS 3.30 252 iPd 16 46.30 0.5
 CSS 3.44 112 eP 16 48.50 0.6
 PRK 3.85 320 eP 16 57.20 3.7X
 BNT 4.19 344 ePn 16 58.00 -0.4
 EZN 4.27 326 ePn 17 03.00 3.5X
 VAM 4.36 259 eP 17 01.70 0.9
 VLI 5.26 276 eP 17 13.10 -0.2
 ADI 5.76 123 eP 17 19.50 -0.8
 ZNT 6.17 130 eP 17 26.00 0.1
 KOT 6.69 162 ePn 17 32.50 -0.6
 PRNI 7.56 141 eP 17 44.50 -0.7

S.D. = 0.8 on 17 of 21 obs.

? OCT 31, 1990 04h 50m 10.90±1.07s
 62.891 N ±29.9km 24.634 W ±9.8km
 DEPTH = 5.0km (geophysicist)
 5.0mb (7 obs.)
 ICELAND REGION (637)

FBA 45.81 330 e(P) 58 34.10 -0.6
 IMA 46.06 334 e(P) 58 37.10 0.2
 1.8s 20.60nm 4.8mb
 NEW 49.61 299 e(P) 59 05.00 1.1
 0.7s 14.00nm 5.1mb
 BW06 50.85 289 eP 59 13.70 -0.8
 1.0s 8.33nm 4.6mb
 ALO 55.92 281 eP 59 52.00 -0.1
 GKN 73.65 60 P 01 46.92 -0.2
 1.0s 20.00nm 5.1mb
 KKN 74.10 60 P 01 49.82 0.0
 0.9s 14.00nm 5.0mb
 DMN 74.19 60 P 01 50.18 -0.2
 0.4s 6.00nm 5.0mb
 GUN 74.23 59 P 01 51.42 0.7
 1.0s 42.00nm 5.4mb
 PKI 74.34 60 P 01 51.26 -0.1

S.D. = 0.6 on 10 of 10 obs.

% OCT 31, 1990 05h 26m 57.46±1.03s
 39.515 N ±13.6km 20.655 E ±7.4km
 DEPTH = 10.0km (geophysicist)
 GREECE-ALBANIA BORDER REGION (392)

IGT 0.25 274 iPd 27 02.69 -0.1
 eS 27 09.04
 FNA 1.38 23 ePc 27 22.90 0.1
 eS 27 41.72
 AGG 1.39 110 ePd 27 23.28 0.4
 LIT 1.53 67 iPd 27 23.93 -0.9
 eS 27 45.00
 GRG 1.97 42 ePc 27 31.76 0.6
 iS 27 59.93

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

? OCT 31, 1990 05h 52m 17.39±3.25s
 63.239 N ±24.7km 24.548 W ±55.1km
 DEPTH = 5.0km (geophysicist)
 4.7mb (8 obs.) 3.7Msz (2 obs.)
 ICELAND REGION (637)

LOR 22.47 122 eP 57 18.40 -0.1
 1.0s 16.00nm 4.5mb
 Z 21s 0.35um 3.8Msz
 AVF 22.67 123 eP 57 20.20 -0.3
 BGF 22.68 125 eP 57 20.40 -0.1
 0.8s 12.10nm 4.4mb
 LBF 22.75 122 eP 57 21.20 -0.1
 HAU 22.85 117 eP 57 23.30 1.1
 Z 20s 0.20um 3.6Msz
 MAF 22.86 125 eP 57 22.40 0.1
 0.9s 9.00nm 4.3mb
 SMF 22.98 123 eP 57 23.20 -0.3
 1.1s 24.40nm 4.6mb
 PRU 24.79 104 eP 57 40.00 -1.1
 KHC 25.01 106 eP 57 44.00 0.8
 GKN 73.45 61 P 03 52.30 -0.2
 0.8s 13.00nm 5.0mb
 KKN 73.89 60 P 03 55.12 0.0
 1.0s 25.00nm 5.2mb
 DMN 73.98 60 P 03 55.82 0.1
 0.8s 16.00nm 5.1mb
 PKI 74.14 60 P 03 56.72 0.0
 0.9s 5.00nm 4.6mb

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

OCT 31, 1990 06h 00m 01.58±0.58s
 19.889 S ±7.5km 133.573 E ±5.9km
 DEPTH = 5.0km (geophysicist)
 4.3mb (2 obs.)

NORTHERN TERRITORY, AUSTRALIA (591)

WB5 0.75 89 iP 00 15.60 -0.9
 ASPA 3.77 175 iPc 01 07.80 6.1X
 0.3s 104.40nm
 QIS 5.70 98 eP 01 30.00 0.9
 eS 02 27.00
 e 02 57.00
 KNA 6.16 311 eP 01 36.00 0.6
 0.3s 14.00nm 5.3mb X
 MTN 7.38 341 eP 01 52.00 -0.7
 0.3s 29.00nm 6.0mb X
 eS 03 13.00
 WARB 8.94 224 eP 02 18.10 3.7X
 0.3s 10.00nm 5.8mb X
 eS 03 58.00
 FORR 11.98 203 eP 02 57.20 1.2
 MBL 12.94 262 eP 03 08.70 -0.2
 0.3s 2.00nm 4.9mb
 eS 05 22.00
 COOL 15.67 223 eP 03 44.00 -0.8
 NANU 17.03 258 eP 04 05.50 3.3X
 0.3s 2.00nm 3.8mb
 eS 07 06.00
 KLB 18.38 228 eP 04 18.00 -0.9
 MRWA 18.47 236 eP 04 19.00 -1.1
 eS 07 36.00
 NWAD 19.53 225 eP 04 32.70 -0.3
 MUN 19.69 229 eP 04 36.00 1.3
 GKN 67.13 314 P 11 00.00 1.1

S.D. = 1.0 on 12 of 15 obs.

* OCT 31, 1990 06h 23m 37.32±1.30s
 63.198 N ±11.5km 24.192 W ±10.9km
 DEPTH = 5.0km (geophysicist)
 4.8mb (9 obs.) 3.6Msz (2 obs.)
 ICELAND REGION (637)

LJO 2.45 68 eP 24 16.90 -1.7
 LOR 22.31 122 eP 28 36.20 -0.6
 Z 20s 0.30um 3.7Msz
 AVF 22.51 124 eP 28 38.60 -0.2
 TCF 22.51 126 eP 28 38.60 -0.3
 1.3s 23.45nm 4.5mb
 BGF 22.52 125 eP 28 38.80 -0.1
 1.1s 22.00nm 4.6mb
 HAU 22.68 118 eP 28 41.60 1.0
 Z 19s 0.20um 3.6Msz
 SMF 22.82 123 eP 28 42.00 0.1
 1.1s 15.85nm 4.4mb
 MOX 22.87 107 eP 28 46.00 3.7X
 CLL 22.99 104 e(P) 28 51.00 7.5X
 2.2s 57.00nm 4.7mb
 BSF 23.00 117 eP 28 45.00 1.2
 BRG 23.72 103 eP 28 50.20 -0.4
 KHC 24.84 107 eP 29 03.50 2.0
 LKO 55.21 157 P 33 12.00 -1.2
 0.7s 8.00nm 4.9mb
 BCAD 66.39 132 ePc 34 28.20 -1.0
 0.5s 3.00nm 4.8mb
 GKN 73.33 61 P 35 11.70 0.0
 0.9s 16.00nm 5.1mb
 KKN 73.77 60 P 35 14.50 0.2
 0.7s 8.00nm 4.9mb
 DMN 73.86 61 P 35 15.16 0.2
 GUN 73.90 60 P 35 16.38 1.1
 0.9s 29.00nm 5.3mb
 PKI 74.02 60 P 35 15.72 -0.2

S.D. = 1.0 on 17 of 19 obs.

OCT 31, 1990 06h 46m 45.89±0.23s
 43.491 N ±2.2km 0.550 W ±3.0km
 DEPTH = 10.0km (geophysicist)
 PYRENEES (378)
 ML 4.1 (LDG). Felt (IV) in the
 Pordies oreo. France.

OGE 0.33 170 Pg 46 52.75 0.1
 MADF 0.40 210 Pg 46 54.18 0.1

ESCF 0.41 183 Pg 46 54.26 -0.1
 Sg 46 59.55
 ATE 0.42 196 Pg 46 54.39 -0.1
 Sg 47 00.46
 BTH 0.44 146 iPg 46 54.00 -0.9
 iSg 47 05.00
 JAU 0.47 164 Pg 46 55.24 -0.3
 BOH 0.51 221 Pg 46 56.50 0.2
 Sg 47 03.47
 LHE 0.58 185 Pg 46 57.00 -0.7
 Sg 47 04.38
 EPF 0.80 125 Pg 47 02.10 0.7
 Sg 47 13.20
 ECR 1.69 239 iPnc 47 18.00 2.4
 eSn 47 38.60
 LFF 1.72 32 Pn 47 17.50 1.5
 Pg 47 21.20
 Sg 47 45.30
 LPD 1.73 46 Pn 47 18.00 1.9
 Pg 47 21.70
 Sg 47 45.20
 RJF 2.34 39 Pn 47 25.50 0.5
 Pg 47 32.50
 Sg 48 03.60
 CAF 2.36 52 Pn 47 26.00 0.6
 Pg 47 33.10
 Sg 48 04.00
 ETER 2.77 114 ePn 47 32.30 1.2
 eSn 48 06.80
 ETOR 2.89 203 ePn 47 34.20 1.2
 eSn 48 07.70
 MFF 3.12 5 Pn 47 36.50 0.4
 Pg 47 47.60
 Sg 48 30.00
 LSF 3.13 27 Pn 47 36.20 0.0
 Pg 47 45.40
 Sn 48 12.20
 Sg 48 28.30
 TCF 3.42 34 Pn 47 39.60 -0.7
 Pg 47 52.10
 Sg 48 19.80
 Sn 48 38.40
 MAF 3.52 38 Pn 47 41.00 -0.7
 Pg 47 54.80
 Sg 48 00.00
 BGF 3.90 37 Pn 47 46.60 -0.5
 Pg 48 01.40
 Sg 48 53.20
 ECHE 3.91 185 ePn 47 47.00 -0.3
 eSn 48 32.40
 GUD 3.91 225 iPnd 47 47.90 0.5
 eSn 48 32.30
 AVF 4.30 39 Pn 47 52.20 -0.6
 Sg 49 03.50
 SMF 4.43 43 Pn 47 53.80 -0.9
 Sg 49 08.80
 TOL 4.46 217 ePg 48 16.00 20.9X
 eSn 48 45.50
 iSg 49 13.50
 ESEL 4.53 144 ePn 47 56.00 0.0
 eSn 48 46.60
 LPF 4.55 356 Pn 47 56.40 0.0
 Sn 48 47.10
 SSF 4.58 37 Pn 47 55.50 -1.2
 Pg 48 15.00
 Sg 49 15.00
 LBF 4.74 41 Pn 47 58.10 -1.0
 Pg 48 16.60
 Sn 48 52.70
 Sg 49 16.60
 GRR 4.90 358 Pn 48 01.00 -0.3
 Sn 48 55.00
 Sg 49 25.20
 EMON 4.94 272 ePn 48 01.80 -0.1
 eSn 48 56.10
 ERUA 4.96 259 ePn 48 02.20 0.0
 LRG 5.03 88 Pn 48 03.00 -0.1
 EVIA 5.07 198 ePn 48 02.80 -1.0
 LDF 5.11 3 Pn 48 03.60 -0.7
 Sn 49 00.80
 Sg 49 33.20
 LMR 5.14 89 Pn 48 04.60 -0.2
 FRF 5.23 87 Pn 48 06.40 0.4
 FLN 5.27 0 Pn 48 06.50 -0.1
 Sg 49 37.80
 EPLA 5.37 232 ePn 48 06.70 -1.3

31d 06h

LPL	5.59	66 Pn	49 05.70	0.4
LPG	5.59	66 Pn	48 11.80	0.3
EBAN	5.86	206 ePn	48 14.00	-0.9
		eSn	49 18.30	
DOU	7.49	26 iP	48 37.80	0.1
MEM	8.41	30 iP	48 53.80	3.3X

S.D. = 0.8 on 43 of 45 obs.

OCT 31, 1990 06h 58m 53.48 ± 0.28s
 63.260 N ± 6.4km 24.341 W ± 4.2km
 DEPTH = 5.0km (geophysicist)
 4.7mb (21 obs.) 3.7Msz (2 obs.)
 ICELAND REGION (637)

HAH	1.61	56 eP	59 20.80	-1.8
LJO	2.49	70 eP	59 33.10	-2.2
AKU	3.64	45 eP	59 49.80	-1.7

	1.0s	264.00nm		
		eS	00 47.20	

EKA	13.36	117 P	02 16.00	9.8X
	0.9s	11.20nm		4.9mb

DAG	13.70	5 eP	02 12.00	1.5
	0.9s	5.88nm		4.5mb

NBO	16.43	82 P	02 48.00	1.9
	1.0s	7.10nm		3.8mb

LSF	22.39	127 eP	03 54.40	0.6
LOR	22.40	122 eP	03 52.80	-1.1

	1.0s	19.00nm		4.5mb
	2.0s	0.35um		3.8Msz

SSF	22.44	123 eP	03 53.00	-1.3
	1.0s	15.00nm		4.4mb

TCF	22.61	126 eP	03 56.50	0.5
	1.2s	23.80nm		4.6mb

BGF	22.61	125 eP	03 55.00	-1.0
	1.1s	34.20nm		4.8mb

LBF	22.68	123 eP	03 55.90	-0.8
HAU	22.77	118 eP	03 58.00	0.4

	0.9s	13.10nm		4.4mb
	2.1s	0.28um		3.7Msz

MAF	22.79	126 eP	03 57.70	-0.1
CDF	22.82	116 eP	03 58.50	0.3

SMF	22.91	123 eP	03 58.00	-0.9
	1.0s	32.00nm		4.8mb

MOX	22.95	107 eP	04 01.00	1.7
CLL	23.07	104 eP	03 59.00	-1.5

		e	04 08.00	
BSF	23.09	117 eP	04 01.80	1.0

BRG	23.80	103 iP	04 10.10	2.6
	1.6s	30.00nm		4.6mb

PRU	24.71	104 eP	04 17.00	0.7
EPF	24.80	133 eP	04 17.10	-0.2

	1.0s	16.00nm		4.7mb
KHC	24.92	107 P	04 20.00	1.5

KHC	24.92	107 eP	03 59.00	-19.5X
		e	04 08.00	

LPL	24.96	121 eP	04 20.00	0.9
LPG	24.98	121 eP	04 20.30	0.9

MBC	31.08	332 eP	05 14.00	0.0
	1.5s	13.00nm		4.6mb

NA2	40.45	257 P	06 34.80	0.7
NAV	42.47	260 P	06 51.50	0.8

GBTN	45.37	262 P	07 13.40	-0.8
FBA	45.55	330 eP	07 15.40	0.1

IMA	45.79	334 eP	07 17.00	-0.3
	1.6s	14.40nm		4.7mb

PRM	45.87	259 P	07 18.60	0.5
FVM	46.25	269 P	07 20.60	-0.5

OLY	48.77	268 P	07 40.50	-0.4
TTA	49.05	333 P	07 42.20	-0.6

NEW	49.55	299 P	07 46.50	-0.3
PNT	49.67	301 eP	07 49.00	1.3

BW06	50.86	289 P	07 56.10	-1.0
	0.8s	6.10nm		4.6mb

GLD	51.44	283 P	08 01.50	0.0
GOL	51.55	283 P	08 02.30	-0.1

	0.6s	1.80nm		4.2mb
MEO	52.59	274 iPd	08 09.00	-1.0

DAU	53.52	289 P	08 16.80	-0.4
DUG	54.37	290 P	08 25.00	1.8

LKO	55.29	157 P	08 28.40	-1.6
	0.8s	12.00nm		5.0mb

ALO	55.98	281 eP	08 44.30	9.2X
	1.0s	3.25nm		4.3mb

TNP	58.00	292 P	08 49.80	0.4
BCAO	66.48	132 ePc	09 44.80	-1.2

	0.7s	6.00nm		4.9mb
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GKN	73.35	61 P	10 28.36	0.3
	0.9s	34.00nm		5.4mb
KKN	73.80	60 P	10 31.32	0.7
	0.7s	20.00nm		5.3mb
DMN	73.89	61 P	10 32.12	0.9
GUN	73.93	60 P	10 32.28	0.7
	1.0s	63.00nm		5.6mb
PKI	74.04	60 P	10 32.60	0.4
SPA	153.10	180 ePKP	18 42.00	-2.3

S.D. = 1.1 on 51 of 54 obs.

& OCT 31, 1990 08h 22m 40.20s
 40.477 N 125.440 W
 DEPTH = 16.0km
 OFF COAST OF NORTHERN CALIFORNIA (34)
 <BRK>. ML 3.3 (BRK).

FHC	1.15	73 iPc	22 59.50	-1.9
		iS	23 13.40	

WDC	2.21	86 iPc	23 14.00	-2.8
		iS	23 40.80	

LTCM	2.55	95 eP	23 19.50	-2.0
LBFM	2.83	71 eP	23 22.50	-3.2

MIN	2.93	91 iPc	23 24.30	-2.8
ORV	3.16	106 eP	23 28.30	-2.0

		eS	24 03.80	
ARN	4.36	134 eP	23 43.20	-4.2

	7 obs. associated			
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OCT 31, 1990 08h 34m 22.07 ± 0.55s
 14.992 N ± 4.9km 60.887 W ± 12.4km
 DEPTH = 71.7 ± 4.4 km
 4.9mb (11 obs.)

WINDWARD ISLANDS (95)
 Felt (III) on Martinique.

CRM	0.24	187 iPd	34 31.50	-1.7
PCM	0.36	241 eP	34 33.74	-0.3

FDF	0.36	225 iPd	34 34.00	-0.1
		S	34 43.80	

MVM	0.43	181 iPd	34 32.89	-1.7
BIM	0.50	201 iPd	34 34.86	-0.4

BBL	0.78	313 iPd	34 39.33	1.1
		S	34 52.62	

DOG	1.25	326 eP	34 45.06	0.9
PAG	1.28	324 ePd	34 45.69	1.0

		S	35 02.74	
SFG	1.29	347 iPd	34 43.63	-1.0

DEG	1.32	353 ePd	34 43.64	-1.5
SEG	1.52	337 ePd	34 48.20	0.4

		S	35 07.42	
BPA	2.25	336 eP	34 57.73	0.0

		eS	35 24.67	
NEV	2.68	323 ePd	35 05.48	1.7

GRW	2.91	195 iP	35 06.68	-0.5
		eS	35 46.57	

SKI	2.93	323 eP	35 09.07	1.8
		eS	35 45.43	

TRN	4.35	187 eP	35 26.31	-0.8
		eS	36 17.33	

TBH	4.48	182 eP	35 31.29	2.2
		eS	36 21.31	

TPP	4.68	187 eP	35 34.51	2.7
ZOBO	31.87	193 P	40 42.50	-0.9

	22s	0.08um		3.4Msz
		LR	51 28.00	

CNCB	32.36	193 P	40 47.20	-0.4
CCH	32.58	189 eP	40 50.00	0.8

OLY	34.16	312 P	41 02.30	-0.2
FVM	34.72	317 P	41 05.50	-1.7

ALO	45.39	304 eP	42 35.80	0.3
	1.0s	3.25nm		4.2mb

BW06	49.92	314 P	43 10.50	-0.3
	1.0s	10.63nm		4.8mb

DUG	51.56	310 P	43 23.20	0.0
SES	53.57	322 eP	43 38.00	0.2

TNP	54.50	306 P	43 44.50	-0.6
BCH	56.44	302 P	43 47.80	-11.2X

NEW	56.62	318 P	43 58.30	-1.7
	0.8s	9.38nm		4.9mb

ORV	58.02	307 P	44 10.20	0.3
YKA	60.45	335 eP	44 24.30	-2.0

	0.4s	2.40nm		4.7mb
BGF	61.24	45 eP	44 39.10	7.2X

	1.0s	22.00nm		5.2mb
AVF	61.62	45 eP	44 38.70	4.2X

	1.1s	19.55nm		5.1mb
SSF	61.76	44 eP	44 37.40	1.9

	1.0s	13.00nm		5.0mb
SMF	61.93	45 eP	44 42.00	5.4X

	1.1s	19.55nm		5.1mb
LOR	62.03	44 eP	44 36.80	-0.5

	1.0s	14.00nm		5.0mb
Z	21s	0.22um		4.3Msz

LBF	62.07	45 eP	44 39.80	2.2
HAU	63.79	44 eP	44 40.60	-8.3X

	Z	21s	0.20um	4.3Msz
CDF	64.46	43 eP	44 41	

CNPM	2.30	240	eP	51	49.45	-1.6
SPU	2.36	283	iP	51	50.58	-1.3
CGLM	2.36	286	eP	51	50.91	-1.0
SKT	2.39	304	iP	51	51.46	-0.8
PAX	2.42	20	iP	51	52.71	0.0
CRP	2.42	285	eP	51	52.03	-0.8
BALM	2.45	81	iP	51	51.03	-2.2
NCG	2.45	288	eP	51	52.06	-1.1
CKL	2.50	283	eP	51	52.56	-1.3
HUR	2.51	335	eP	51	54.50	0.5
RDT	2.51	269	eP	51	52.13	-1.9
BGL	2.53	284	eP	51	52.96	-1.4
XLV	2.55	242	eP	51	56.72	2.2
RSO	2.70	267	eP	51	54.71	-2.1
WRG	2.71	102	eP	51	54.77	-2.1
RED	2.71	266	eP	51	54.92	-2.0
RND	2.79	346	eP	51	58.16	0.2
MCK	3.11	347	eP	52	03.07	0.6
DDM	3.15	12	eP	52	03.34	0.4
DOT	3.30	26	eP	52	05.27	0.0
TMW	3.31	36	eP	52	04.80	-0.4
AUE	3.33	248	eP	52	05.34	-0.3
CDD	3.67	243	eP	52	09.56	-0.8
HDA	3.70	2	eP	52	10.08	-0.7
WRH	3.78	355	eP	52	11.23	-0.7
CCB	3.94	357	eP	52	13.16	-1.1
NEA	3.95	349	eP	52	13.37	-1.0
KDC	4.00	224	eP	52	17.10	2.1
SVW	4.07	279	eP	52	14.40	-1.7
FBA	4.20	357	iPc	52	16.70	-1.1
GLM	4.28	360	eP	52	17.65	-1.4
TTA	4.68	302	eP	52	22.10	-2.7
HYT	4.81	85	P	52	24.70	-2.0
IMA	6.07	335	eP	52	43.10	-1.4

67 obs. associated

OCT 31, 1990 08h 59m 14.40± 0.70s
 47.052 N ± 6.1km 8.987 E ± 7.1km
 DEPTH = 10.0km (geophysicist)

SWITZERLAND (544)
 ML 2.8 (VIE).

LLS	0.18	178	ePc	59	18.10	-0.5
SAX	0.31	51	ePd	59	19.70	-1.4
ZLA	0.59	317	ePd	59	26.40	0.0
VDL	0.66	149	ePc	59	26.20	-1.4
SLE	0.79	335	ePd	59	29.60	-0.2
OSS	0.87	114	ePd	59	29.50	-1.8
TMA	0.95	185	ePd	59	33.70	1.1
FEL	1.06	322	ePg	59	34.33	-0.1
MMK	1.22	216	ePd	59	40.00	2.7X
OGA	1.41	97	iPc	59	41.90	1.6
DIX	1.46	229	ePc	59	44.50	3.5X
SOTA	1.53	83	iPnc	59	42.80	1.0
			iPgq	59	43.50	
			iSn	00	04.70	
			iSg	00	05.50	
WATA	1.79	80	iP	59	49.10	3.4X
	0.6s		15.00nm			
			i	59	55.60	
			iSg	00	11.60	
CTI	2.09	118	P	59	55.00	4.9X
FVI	2.65	99	P	59	59.50	1.7
			eSn	00	36.00	
KHC	3.71	54	ePg	00	28.00	14.9X
			eSg	01	14.00	

S.D. = 1.4 on 11 of 16 obs.

? OCT 31, 1990 09h 20m 32.45± 6.91s
 6.057 S ± 68.6km 127.802 E ± 16.1km
 DEPTH = 221.1 ± 22.1 km
 4.8mb (6 obs.)

BANDA SEA (280)

KUPT	5.81	225	ePd	21	57.20	-1.1
			eS	22	59.50	
MTN	7.50	154	iPd	22	22.00	1.9
KNA	9.68	174	eP	22	48.30	0.0
			eS	24	23.00	
WB5	15.15	156	iPd	23	55.70	-1.3
			eS	26	30.00	
MBL	16.88	206	iPc	24	17.40	-0.1
	0.3s		6.00nm			4.5mb
OIS	18.41	143	iPc	24	33.70	0.0
			e	24	37.00	
ASPA	18.47	162	iPc	24	33.50	-0.8
	0.5s		79.00nm			5.5mb

WARB	20.05	183	eP	24	50.30	0.0
	0.4s		9.00nm			4.7mb
NANU	20.24	215	eP	24	54.00	1.8
	0.3s		7.00nm			4.7mb
MEKA	22.27	202	eP	25	13.00	0.9
	0.4s		15.00nm			4.9mb
FORR	24.67	179	eP	25	33.50	-1.1
	0.4s		15.00nm			4.9mb
MRWA	25.60	204	eP	25	43.00	-0.2
	S.D. = 1.3	on	12 of 12 obs.			

? OCT 31, 1990 09h 33m 14.33± 1.11s
 39.074 N ± 8.2km 27.623 E ± 13.3km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 2.3 (ISK).

IZM	0.73	203	ePg	33	28.70	0.0
			eSg	33	41.20	
EZN	1.25	307	ePn	33	37.70	0.1
BNT	1.30	10	iPn	33	38.10	-0.3
KCT	1.30	26	iPn	33	38.70	0.2
	S.D. = 0.4	on	4 of 4 obs.			

& OCT 31, 1990 09h 37m 59.57s
 59.654 N 153.051 W
 DEPTH = 107.3km
 SOUTHERN ALASKA (2)
 <AGS-P>.

OPT	0.09	269	eP	38	14.00	0.9
AUE	0.34	209	eP	38	14.55	-0.8
AUH	0.35	215	eP	38	15.23	-0.3
AUI	0.37	211	eP	38	14.87	-0.7
PDB	0.59	284	eP	38	16.08	-1.0
XLV	0.71	106	eP	38	17.06	-0.9
HOM	0.71	89	eP	38	17.55	-0.5
			eS	38	31.38	
RED	0.78	10	iP	38	17.88	-0.9
CDD	0.79	203	iP	38	17.74	-1.0
MCNL	0.81	235	eP	38	17.98	-0.9
RSO	0.82	10	eP	38	18.07	-1.2
CNPM	0.93	97	iP	38	19.35	-0.8
			eS	38	34.27	
NNL	0.97	66	eP	38	20.75	0.3
RDT	0.98	19	eP	38	19.74	-0.9
BRLK	1.10	83	eP	38	20.95	-1.0
NKA	1.42	39	eP	38	26.33	0.8
CKL	1.59	13	iP	38	27.11	-0.7
SPU	1.61	17	eP	38	27.18	-0.8
BGL	1.65	11	eP	38	28.04	-0.5
SLKM	1.66	58	eP	38	27.81	-0.8
CRP	1.68	15	eP	38	28.57	-0.4
			S	38	50.21	
CGLM	1.74	17	eP	38	28.98	-0.7
NCG	1.81	14	eP	38	29.41	-1.2
SEW	1.87	75	eP	38	29.91	-1.3
SUA	2.14	31	eP	38	34.37	-0.6
PMS	2.35	46	eP	38	36.68	-0.9
SKT	2.45	17	eP	38	37.93	-0.9
PWA	2.54	37	eP	38	39.08	-0.9
PLRM	2.74	43	eP	38	40.80	-1.9
MTU	2.75	81	eP	38	41.33	-1.5
KNIM	2.76	73	eP	38	40.93	-2.1
KNK	2.88	50	eP	38	42.44	-2.1
GHO	2.94	42	eP	38	43.48	-2.0
SML	3.17	45	eP	38	46.21	-2.3
VZW	3.52	64	eP	38	50.63	-2.7
SCM	3.56	50	eP	38	52.40	-1.5
VLZ	3.65	63	eP	38	53.03	-2.0

37 obs. associated

% OCT 31, 1990 09h 38m 34.73± 2.07s
 40.937 N ± 16.1km 13.259 E ± 15.3km
 DEPTH = 10.0km (geophysicist)

TYRRHENIAN SEA (389)

SDI	0.87	28	P	38	52.00	0.4
			eSg	39	06.50	
RDP	0.92	334	P	38	52.00	-0.3
			eSg	39	07.00	
AZI	1.06	7	P	38	54.00	-0.6
			eSn	39	10.50	
MNS	1.51	343	P	39	02.50	0.6
SGO	1.60	103	P	39	03.00	-0.1
	S.D. = 0.7	on	5 of 5 obs.			

% OCT 31, 1990 09h 48m 22.61± 0.74s
 43.395 N ± 5.6km 5.443 E ± 5.5km
 DEPTH = 10.0km (geophysicist)
 NEAR SOUTH COAST OF FRANCE (379)
 MD 2.5 (STR).

GELF	0.02	227	Pg	48	24.40	-0.2
BERF	0.20	114	Pg	48	27.18	0.2
PUYF	0.23	54	Pg	48	27.33	-0.3
TREF	0.23	349	Pg	48	27.33	-0.3
PRAF	0.46	334	Pg	48	32.28	0.4
TAVF	0.50	63	Pg	48	32.89	0.1
VILF	0.50	23	Pg	48	32.73	0.0
	S.D. = 0.3	on	7 of 7 obs.			

? OCT 31, 1990 10h 05m 48.04± 2.87s
 7.435 S ± 17.5km 127.872 E ± 19.5km
 DEPTH = 130.6 ± 29.9 km
 4.6mb (4 obs.)

BANDA SEA (280)

MTN	6.26	149	iPc	07	20.50	1.2
KNA	8.31	174	eP	07	46.50	-0.6
	0.3s		45.00nm			5.7mb X
			eS	09	12.00	
WB5	13.88	154	eP	08	58.50	-1.9
			eS	11	23.00	
ASPA	17.15	161	iPc	09	42.10	0.9
	0.6s		33.20nm			4.8mb
			iS	12	39.10	
OIS	17.30	140	eP	09	43.00	0.0
			eS	12	46.00	
WARB	18.68	183	eP	09	59.20	0.3
	0.4s		8.00nm			4.4mb
NANU	19.17	217	eP	10	04.00	0.0
	0.3s		7.00nm			4.5mb
FORR	23.30	180	eP	10	45.30	0.3
	0.4s		17.00nm			4.8mb
MRWA	24.39	206	eP	10	55.50	-0.1
PKI	53.82	312	P	15	00.00	-0.1
CNCB	151.26	147	PKP	25	30.30	7.4X
ZOBO	151.62	146	PKP	25	31.00	7.6X
	S.D. = 1.0	on	10 of 12 obs.			

& OCT 31, 1990 10h 06m 16.69s
 63.504 N 150.794 W
 DEPTH = 15.2km
 CENTRAL ALASKA (1)
 <AGS-P>. ML 3.0 (PMR).

HUR	0.74	135	eP	06	30.85	0.0
			eS	06	41.60	
MCK	0.86	74	eP	06	33.40	0.6
RND	0.88	96	eP	06	33.22	0.1
CUT	1.13	168	eP	06	37.24	-0.1
			eS	06	53.21	
NEA	1.32	34	eP	06	39.71	-0.7
			eS	06	57.31	
WRH	1.54	50	eP	06	44.04	0.5
SKT	1.57	193	eP	06	43.64	-0.3
CCB	1.74	48	eP	06	44.39	-2.1
PWA	1.91	167	eP	06	49.29	0.4
FBA	1.92	42	eP	06	50.60	1.5
HDA	1.92	60	eP	06	49.68	0.6
GHO	1.94	153	eP	06	49.71	0.2
SML	2.05	145	eP	06	50.93	0.0
SUA	2.05	179	eP	06	50.84	-0.2
PLRM	2.07	157	eP	06	51.10	-0.1
PMR	2.07	157	eP	06	51.30	0.1
GLM	2.10	43	eP	06	53.98	2.2
NCG	2.20	197	eP	06	51.47	-1.8
DDM	2.22	80	eP	06	53.14	-0.3
CGLM	2.28	195	eP	06	50.76	-3.6
SCM	2.32	135	eP	06	58.16	3.3
PMS	2.34	165	eP	06	55.67	0.5
KNK	2.36	152	eP	06	56.19	0.7
BGL	2.37	199	eP	06	55.47	-0.2
SPU	2.40	195	eP	06	55.78	-0.3
CKL	2.43	198	eP	06	56.29	-0.2
TTA	2.43	259	eP	06	56.50	0.0
PAX	2.47	100	eP	06	58.54	1.5
TOA	2.55	121	eP	07	01.30	3.2
SDG	2.59	110	eP	06	59.92	1.2
IMA	2.86	336	eP	06	59.00	-3.6
SLKM	3.02	175	eP	07	05.76	1.0
KLU	3.03	130	eP	07	06.26	1.3

31d 10h

RDT 3.04 195 eP 07 05.37 0.3
 VLZ 3.16 137 eP 07 11.02 4.3
 SVW 3.30 225 eP 07 12.50 3.8
 36 obs. associated

? OCT 31, 1990 12h 18m 16.41 ± 1.06s
 39.102 N ± 7.4km 27.490 E ± 14.2km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 MD 2.8 (ISK).

IZM 0.73 194 ePg 18 30.70 0.0
 eSg 18 42.70
 EZN 1.16 309 ePn 18 38.00 0.0
 EDC 1.28 13 iPn 18 40.00 -0.1
 BNT 1.30 15 iPn 18 40.50 0.1
 S.D. = 0.1 on 4 of 4 obs.

OCT 31, 1990 12h 25m 14.38 ± 0.40s
 17.813 S ± 7.2km 178.798 W ± 4.9km
 DEPTH = 540.1 ± 5.0 km
 4.8mb (29 obs.)

FIJI ISLANDS REGION (181)

MBU 2.51 289 iP 26 27.80 1.5
 eS 27 29.00
 SVA 2.63 263 eP 26 28.00 1.1
 eS 27 30.80
 NDF 3.58 270 eP 26 34.50 1.5
 DZM 14.51 251 iPd 28 18.80 -0.2
 KHZ 25.38 193 eP 29 58.80 -1.6
 0.3s 14.00nm 5.0mb
 LTZ 26.02 195 eP 30 04.40 -1.8
 AFR 27.64 94 iP 30 20.30 -0.2
 0.6s 40.00nm 5.2mb
 PAE 27.82 94 iP 30 21.90 -0.1
 0.6s 25.00nm 5.0mb
 PPT 27.83 94 iP 30 22.00 -0.2
 0.6s 40.00nm 5.2mb
 BRS 27.86 245 iPc 30 23.50 1.0
 i 31 28.00
 PPN 27.97 94 iP 30 23.10 -0.3
 0.6s 5.00nm 4.3mb
 TVO 28.12 95 iP 30 24.80 0.0
 0.6s 25.00nm 5.0mb
 COO 29.50 239 iPd 30 37.40 0.7
 PMO 29.76 89 iP 30 38.10 -0.8
 0.6s 5.00nm 4.3mb
 VAH 29.97 90 iP 30 40.50 -0.2
 0.6s 10.00nm 4.6mb
 TPT 30.02 89 iP 30 41.30 0.2
 0.6s 10.00nm 4.6mb
 RUV 30.22 90 iP 30 42.90 0.1
 0.6s 15.00nm 4.8mb
 RMO 31.20 248 iPd 30 49.90 -1.2
 0.7s 81.00nm 5.4mb
 CAN 33.47 232 eP 31 10.70 0.6
 BWA 33.57 234 eP 31 09.50 -1.6
 CMS 34.75 240 iPd 31 21.30 0.4
 0.8s 62.00nm 5.3mb
 TOO 36.94 231 iPd 31 40.10 1.2
 0.7s 50.00nm 5.2mb
 WB5 44.26 260 eP 32 36.00 -1.7
 e 34 10.20
 e 38 29.00
 ASPA 44.46 254 iPd 32 38.70 -0.6
 0.6s 109.40nm 5.6mb
 iS 38 30.70
 FORR 49.68 244 iPd 33 17.90 -0.8
 0.4s 34.00nm 5.2mb
 WARB 50.96 250 eP 33 27.40 -0.8
 MBL 57.64 256 eP 34 13.00 -2.3
 NANU 61.40 254 eP 34 39.80 -0.4
 MAT 67.61 324 iPc 35 17.60 -1.4
 ADK 69.42 1 eP 35 27.30 -2.2
 0.7s 35.50nm 5.0mb
 SPA 72.30 180 iPc 35 47.60 1.1
 0.8s 16.67nm 4.6mb
 PRS 76.42 44 eP 36 10.30 0.6
 SAO 76.61 44 eP 36 11.40 0.6
 BCH 76.65 46 P 36 12.00 0.8
 PRI 76.79 45 eP 36 12.50 0.6
 MHC 76.81 43 eP 36 12.40 0.4
 LLA 76.86 44 eP 36 12.50 0.3
 ARN 76.89 43 P 36 12.70 0.4
 ABL 77.07 47 P 36 13.60 0.0
 PAS 77.43 48 eP 36 15.00 -0.3

MWC 77.55 48 eP 36 16.00 -0.1
 BAR 77.75 50 eP 36 17.00 0.0
 FRI 77.90 45 eP 36 17.50 -0.2
 PLM 77.95 49 eP 36 18.00 -0.3
 SBB 77.96 47 eP 36 18.00 -0.1
 PEC 78.01 48 P 36 18.10 -0.3
 ISA 78.02 46 eP 36 18.00 -0.5
 CMB 78.03 43 eP 36 18.40 0.0
 WDC 78.11 40 eP 36 18.80 0.1
 KDC 78.39 14 e(P) 36 18.70 -1.1
 CLC 78.70 47 eP 36 22.00 -0.1
 TPC 78.92 49 eP 36 23.00 -0.2
 GSC 78.99 47 eP 36 24.00 0.4
 TNP 80.15 45 P 36 29.80 0.0
 0.8s 9.80nm 4.3mb
 SVW 80.82 11 eP 36 31.10 -1.4
 BMW 81.23 35 P 36 35.00 0.1
 GMW 82.12 35 P 36 39.40 0.1
 TTA 82.44 10 ePc 36 40.50 -0.2
 PMR 82.60 14 ePc 36 40.30 -1.1
 1.0s 36.10nm 4.9mb
 RMW 82.60 35 P 36 41.70 -0.1
 ANM 82.77 6 e(P) 36 41.60 -0.5
 MCW 82.78 34 P 36 43.10 0.5
 BJI 83.46 316 eP 36 46.50 0.4
 1.0s 18.00nm 4.6mb
 PSI 83.47 275 ePd 36 46.00 0.0
 AIA 83.73 157 eP 36 44.10 -3.0X
 TOA 83.74 15 ePc 36 46.90 -0.3
 DPW 84.83 36 P 36 52.60 -0.2
 PNT 84.87 34 iPc 36 53.00 0.1
 0.7s 17.00nm 4.8mb
 NEW 85.65 36 P 36 56.00 -0.7
 0.8s 13.28nm 4.7mb
 IMA 85.74 10 eP 36 55.90 -1.0
 0.7s 3.90nm 4.2mb
 PTI 85.76 43 P 36 58.20 0.7
 FBA 85.80 13 eP 36 55.50 -1.5
 ALO 86.33 52 ePc 37 00.30 -0.2
 1.0s 7.00nm 4.3mb
 LRM 87.14 40 eP 37 04.20 0.0
 BW06 87.54 44 P 37 05.80 -0.4
 0.7s 9.99nm 4.7mb
 CHTO 88.62 290 iP 37 11.80 0.5
 1.0s 6.25nm 4.4mb
 GOL 89.07 48 P 37 13.60 0.3
 0.8s 6.88nm 4.6mb
 GLD 89.20 48 P 37 14.80 1.0
 MEO 92.26 54 iPc 37 27.50 -0.3
 YKA 94.40 25 eP 37 35.90 -1.0
 0.9s 5.20nm 4.7mb
 MBC 100.33 12 ePd i 38 02.00 -1.3
 0.5s 2.00nm 4.8mb
 SOB1 130.51 119 ePKP 43 24.40 -1.6X
 NB2 136.24 353 PKP 43 24.20 -11.3X
 0.7s 2.30nm
 HFS 136.78 351 ePKP 43 24.10 -12.4X
 0.4s 2.40nm
 EKA 142.40 4 PKP 43 43.00 -3.7X
 0.9s 9.00nm
 KAS 143.56 317 ePKP 43 48.50 -0.7
 KRA 144.49 339 ePKP 43 49.90 -0.5
 ETA 144.71 8 ePKP 43 50.60 -0.1
 1.0s 104.00nm
 ECB 144.95 9 ePKP 43 50.70 -0.4
 1.0s 97.00nm
 SPC 145.11 338 e(PKP) 43 50.90 -0.9
 ECP 145.19 8 ePKP 43 51.50 0.0
 0.7s 38.00nm
 CLL 145.29 347 iPKPc 43 52.20 0.5
 0.8s 68.00nm
 BRG 145.48 346 iPKPc 43 52.00 0.7
 0.9s 32.00nm
 ADI 145.90 303 iPKPc 43 54.70 1.3
 JVI 146.14 301 iPKPc 43 55.70 2.0
 PRU 146.16 344 iPKPc 43 55.00 1.8
 i 43 57.00
 MOX 146.20 348 ePKP 43 55.00 1.7
 1.4s 31.00nm
 SRO 146.96 339 iPKP 43 56.90 2.4
 ZST 147.03 340 iPKP 43 57.30 2.7
 MEM 147.06 354 PKP 43 57.20 2.7
 RMN 147.12 299 iPKPc 43 58.20 2.8
 TNS 147.15 351 ePKPc 43 58.00 3.2X
 KHC 147.19 345 iPKPc 43 52.20 -2.7X
 0.8s 68.00nm
 ABH 147.60 352 ePKP 43 58.91 3.3X

DOU 147.68 356 iPKPc 43 59.10 3.5X
 DIM 148.15 324 ePKP 43 52.00 -4.6X
 KDZ 148.48 324 iPKPc 44 01.00 3.8X
 PGB 148.54 326 iPKP 44 02.00 4.7X
 VTS 149.01 327 iPKP 44 03.00 4.9X
 CDF 149.08 352 ePKP 44 02.80 4.8X
 0.4s 16.60nm
 FLN 149.10 2 iPKPc 44 02.40 4.6X
 0.6s 20.75nm
 LDF 149.28 2 iPKPc 44 02.80 4.7X
 0.3s 12.35nm
 WATA 149.35 346 iPKPc 44 02.80 4.3X
 0.5s 19.40nm
 MMB 149.45 326 iPKPc 44 03.00 4.3X
 GRR 149.46 3 iPKPc 44 03.40 5.0X
 0.5s 26.95nm
 SLE 149.53 350 ePKPc 44 03.40 4.8X
 SOTA 149.54 346 iPKPc 44 03.50 4.8X
 0.5s 27.40nm
 i 44 10.70
 i 44 16.90
 HAU 149.59 353 iPKPc 44 03.80 5.1X
 0.4s 12.60nm
 BSF 149.71 353 iPKPc 44 04.00 5.0X
 0.6s 12.65nm
 FVI 149.74 344 PKP 44 04.00 5.2X
 LPF 149.81 3 iPKPc 44 04.20 5.3X
 0.4s 24.65nm
 SAX 149.89 349 ePKPd 44 05.00 5.5X
 OGA 149.91 346 iPKPc 44 05.10 5.7X
 0.8s 16.00nm
 VOY 149.95 342 e(PKP) 44 04.10 4.7X
 VAY 150.25 326 ePKP 44 04.60 4.8X
 OSS 150.27 348 ePKPc 44 05.80 5.9X
 TRI 150.28 342 PKP 44 04.50 4.8X
 LLS 150.32 349 ePKPc 44 05.60 5.6X
 SKO 150.36 329 ePKP 44 05.50 5.5X
 CTI 150.54 345 PKP 44 05.50 5.2X
 LOR 150.54 356 iPKPc 44 06.20 6.1X
 VDL 150.60 348 ePKPd 44 06.70 6.2X
 GRG 150.60 326 ePKPd 44 04.44 4.0X
 SSF 150.77 357 iPKPc 44 06.70 6.3X
 LBF 150.82 356 iPKPc 44 06.80 6.2X
 0.4s 9.45nm
 AVF 151.05 357 iPKPc 44 07.00 6.2X
 0.4s 4.85nm
 TMA 151.08 349 ePKPc 44 07.20 6.0X
 LIT 151.16 325 ePKPc 44 05.52 4.3X
 SMF 151.17 356 iPKPc 44 07.10 6.0X
 FNA 151.27 327 iPKPc 44 06.30 4.8X
 MFF 151.27 2 iPKPc 44 07.70 6.5X
 0.5s 18.95nm
 MMK 151.29 350 ePKPd 44 08.70 7.1X
 BGF 151.30 358 iPKPc 44 07.80 6.6X
 0.6s 22.10nm
 OHR 151.32 328 ePKPc 44 07.50 6.0X
 0.6s 83.00nm
 VAI 151.33 349 PKP 44 07.50 6.3X
 DIX 151.35 351 ePKPc 44 08.70 7.0X
 TCF 151.59 359 iPKP 44 08.30 6.6X
 0.6s 8.10nm
 LSF 151.64 360 iPKPc 44 08.20 6.5X
 MAF 151.65 358 ePKP 44 08.80 7.0X
 0.7s 11.60nm
 AGG 151.99 323 ePKPd 44 07.62 5.1X
 LPL 151.99 352 ePKP 44 01.00 -1.6
 0.7s 7.70nm
 LPG 152.01 352 ePKP 44 10.10 7.4X
 0.7s 9.90nm
 BNI 152.46 352 PKP 44 11.00 7.9X
 ARV 152.54 341 PKP 44 11.00 7.9X
 RJF 152.59 360 ePKP 44 10.60 7.5X
 0.7s 8.80nm
 BDI 152.66 345 PKP 44 16.00 12.7X
 IGT 152.73 326 ePKPc 43 59.64 -3.8X
 LFF 152.95 1 ePKP 44 10.90 7.3X
 CAF 152.96 359 ePKP 44 11.50 7.8X
 0.5s 4.75nm
 LPO 153.21 0 ePKP 44 11.90 7.9X
 0.5s 5.85nm
 BAO 158.44 234 iPKPd 44 11.50 -0.1
 0.4s 6.00nm
 S.D. = 1.0 on 98 of 161 obs.

& OCT 31, 1990 12h 58m 02.50s
 38.028 N 119.170 W
 DEPTH = 5.0km

CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 2.6 (BRK).

CMB	0.96	271	iPc	58	20.00	-1.3
			iS	58	32.90	
FRI	1.12	203	iPd	58	23.00	-0.9
			iS	58	37.70	
KVN	1.32	39	e(P)	58	26.30	-1.2
TNP	1.54	87	eP	58	30.00	-0.9
ARN	1.99	251	eP	58	38.00	0.7
MHC	2.08	251	eP	58	40.40	1.8
			eS	59	07.80	
SAO	2.21	236	eP	58	41.00	0.7
ORV	2.38	311	eP	58	43.30	0.5
			eS	59	15.20	

8 obs. associated

OCT 31, 1990 13h 57m 07.12± 2.19s
42.479 N ± 21.6km 24.185 E ± 8.5km
DEPTH = 10.0km (geophysicist)

BULGARIA (359)

SRS	1.43	198	ePd	57	32.46	-0.7
			eS	57	54.46	
KNT	1.63	217	iPd	57	35.46	-0.5
			eS	58	01.20	
VAY	1.67	227	ePn	57	36.70	0.2
SOH	1.77	201	ePc	57	37.10	-0.9
			eS	58	04.85	
SKO	2.10	257	ePn	57	43.00	0.2
ALN	2.11	138	ePc	57	42.38	-0.5
			eS	58	14.38	
OUR	2.15	184	ePd	57	46.54	3.1X
PAIG	2.58	189	ePd	57	51.54	2.0
MFT	2.87	125	ePn	57	54.00	0.1
BZS	3.64	330	ePc	58	08.00	3.3X

S.D. = 1.1 on 8 of 10 obs.

OCT 31, 1990 14h 39m 27.22± 0.17s
26.634 S ± 3.5km 70.481 W ± 4.9km
DEPTH = 59.9km (21 depth phases)
5.5mb (26 obs.)

NEAR COAST OF NORTHERN CHILE (122)

Felt (VI) at Copiopo and (III)

at Taltal.

CENTROID, MOMENT TENSOR (HRV)

Date Used: GDSN

L.P.B.: 165, 33C

Centroid Location:

Origin Time 14:39:35.9 0.3

Lat 27.05S 0.03 Lon 71.07W 0.05

Dep 73.3 2.1 Half-duration 2.2

Moment Tensor: Scale 10¹⁷ Nm

Mrr=-1.54 0.06 Mtt= 2.28 0.13

Mrf=-0.73 0.14 Mrt= 0.16 0.07

Mrf=-1.01 0.07 Mrt=-0.88 0.08

Principal Axes:

T Val= 2.56 Plg= 6 Azm= 17

N -0.30 35 111

P -2.26 54 278

Best Double Couple: Mo=2.4*10¹⁷

NP1: Strike= 74 Dip=50 Slip=-140

NP2: 315 60 -48

ANT	2.92	1	iPc	40	12.00	-0.2
			i	40	36.00	
			i	40	57.20	
RTLL	5.00	160	iPd	40	42.60	1.1
RTCB	5.05	163	iPc	40	43.30	1.0
RTBS	5.09	170	iPc	40	44.00	1.3
ZON	5.14	163	iPc	40	45.50	2.0X
RTCV	5.48	162	ePd	40	48.90	0.7
JACH	6.03	181	iPc	40	53.30	-2.7
ROCH	6.33	184	iPd	40	56.40	-3.9X
			i	42	18.60	
FCH	6.67	179	iPc	41	02.60	-2.6
			iS	42	00.50	
SAN	6.80	181	iP	41	02.70	-3.9X
			iS	42	22.20	
LCCH	6.88	188	iP	41	02.20	-5.6X
PCH	6.96	180	iPc	41	05.50	-3.5X
			iS	42	47.60	
TACH	7.01	183	iPc	41	05.00	-4.5X
			i	42	51.00	
CHCH	7.28	181	iP	41	02.70	-10.6X
			iS	42	22.20	
LNV	7.34	186	iPc	41	08.10	-6.0X

CCH	10.05	24	iS	42	34.50	
CNCB	10.05	14	iPc	41	01.00	9.3X
ARE	10.17	354	iPc	41	49.50	-3.8X
			iS	43	40.00	
LPB	10.29	13	P	41	54.00	-1.1
	1.0s	396.00nm			6.4mb	
Z	22s	10.37um			4.4Msz	
			S	44	05.00	
			LR	45	24.00	
ZOBO	10.54	12	Pc	41	56.70	-2.0
			eS	44	36.00	
			LR	54	34.00	
LPA	13.57	130	iP+	42	37.60	-0.8
	1.0s	384.00nm			6.0mb	
SIV	13.74	41	iPc	42	36.20	-4.5X
NNA	15.75	336	iPc	43	06.50	-0.3
	0.7s	66.44nm			4.9mb	
			eS	46	10.00	
PPD	18.06	79	eP	43	35.30	-0.2
			e	43	39.40	
			e	43	53.00	
VAO	21.64	85	iPc	44	15.00	0.7
			e	44	15.40	
			e	44	17.40	
			iP	44	29.20	62km
			i	44	36.50	
BAO	23.62	67	iPc	44	34.20	0.4
BMA	24.23	86	eP	44	41.70	2.1
			e	44	42.60	3kmX
			i	44	55.30	
			e	45	03.60	
JFO	25.23	85	eP	44	50.30	1.1
			e	45	04.60	60km
			e	45	12.90	
PDCR	32.60	71	eP	45	54.10	-1.2
SOB1	32.93	64	eP	45	55.30	-2.9X
			e	46	03.30	28kmX
			e	46	17.60	
			e	46	19.80	
			e	48	28.50	
			e	48	40.50	
			e	48	57.90	
CAI	37.50	64	eP	46	38.10	1.0
AIA	38.83	176	e(P)	46	50.00	2.4X
OXX	50.38	327	(P)	48	22.00	1.3
ACX	51.81	323	(P)	48	48.00	16.6X
IIIT	52.81	326	(P)	48	41.00	1.9
PPM	53.01	326	(P)	48	42.00	1.1
CRX	53.83	325	(P)	48	48.50	1.9
JSC	61.43	350	P	49	37.80	-1.8
TKL	63.21	348	P	49	49.70	-1.7
			pP	50	05.00	56km
RSCP	63.52	346	iPd	49	51.50	-1.9
	0.7s	262.98nm			6.4mb	
			iP	50	07.20	58km
SPA	63.52	180	iPd	49	52.60	-0.8
	1.0s	74.50nm			5.7mb	
Z	21s	1.13um			5.0Msz	
			i	50	15.20	89kmX
OLY	64.91	341	ePd	50	00.00	-2.4X
ELC	65.98	344	P	50	07.30	-1.9
			pP	50	23.00	57km
MBO	66.08	58	eP	50	26.60	16.3X
MEO	66.63	335	iPd	50	12.00	-1.5
FVM	66.94	343	iPd	50	14.00	-1.4
	1.0s	190.00nm			6.0mb	
			iP	50	30.50	61km
			eS	50	38.80	
CLE	68.55	351	iP	50	24.40	-1.0
WVLY	69.16	354	P	50	28.60	-0.6
ALO	70.07	329	iPd	50	35.50	0.4
	0.9s	45.59nm			5.4mb	
			e	50	51.50	58km
SBA	70.54	191	iPd	50	38.10	0.9
RSNY	70.93	357	iPd	50	39.30	-0.6
	1.0s	61.46nm			5.5mb	
			eP	50	55.30	58km
LIC	71.24	73	P	50	26.40	-15.9X
	20s	0.60um			4.9Msz	
TIC	71.46	72	P	50	27.40	-16.3X
KIC	71.55	73	P	50	28.20	-16.0X
VAH	72.02	262	eP	50	47.30	0.3
	0.9s	30.00nm			5.2mb	
TPT	72.11	262	iP	50	48.10	0.5
	0.9s	30.00nm			5.2mb	
PMO	72.35	262	iP	50	49.40	0.4

	0.9 s	20.00nm			5.0mb	
TVO	72.46	259	iP	50	49.90	0.2
	0.9 s	35.00nm			5.3mb	
LKO	72.47	69	P	50	49.26	-0.5
	1.0 s	50.00nm			5.4mb	
PPT	72.82	259	iP	50	52.00	0.2
	0.9 s	50.00nm			5.4mb	
AFR	73.01	259	iP	50	53.00	0.2
	0.9 s	25.00nm			5.1mb	
CBM	73.25	2	P	50	53.70	0.2
GLD	73.56	333	P	50	55.90	0.2
	1.2 s	101.01nm			5.6mb	
BAR	73.56	321	eP	50	55.00	-0.7
GOL	73.57	333	iPd	50	55.50	-0.4
	0.8 s	27.53nm			5.2mb	
			iP	51	12.10	60km
			eS	51	19.60	
PLM	74.17	321	eP	51	00.00	0.6
PV09	74.21	329	iPd	50	59.20	-0.5
			i	51	08.70	31kmX
TPC	74.27	322	eP	51	01.00	1.2
PEC	74.73	321	P	51	02.50	0.0
RVR	74.93	321	eP	51	04.00	0.4
MWC	75.48	321	eP	51	07.00	0.0
GSC	75.58	322	eP	51	08.00	0.6
MSU	75.65	327	P	51	08.50	0.6
SBB	75.69	321	eP	51	08.00	0.0
CLC	76.39	322	eP	51	12.00	0.1
ABL	76.59	321	P	51	13.70	0.4
DAU	76.72	329	P	51	14.50	0.5
ISA	76.76	322	eP	51	15.00	1.0
DUG	77.28	328	P	51	17.20	0.4
BCH	77.33	320	iPd	51	17.10	-0.1
TNP	77.86	324	iPd	51	20.40	0.2
	0.8 s	40.44nm			5.5mb	
			iP	51	37.70	63km
			eS	51	45.70	
PRI	78.34	321	eP	51	23.30	0.6
FRI	78.41	322	eP	51	22.30	-0.6
LLA	78.83	321	eP	51	25.80	0.5
PRS	78.87	320	eP	51	26.30	0.8
KVN	79.04	324	eP	51	26.50	-0.1
			eP	51	44.00	63km
PTI	79.19	330	P	51	27.50	0.2
CMB	79.53	322	eP	51	29.20	0.1
GCC	79.72	320	eP	51	31.00	0.9
MHC	79.74	321	eP	51	30.70	0.4
MAW	79.84	164	iPd	51	30.50	0.3
	1.1 s	148.00nm			5.8mb	
PCC	80.27	321	eP	51	32.70	-0.3
LTMT	80.39	331	ePd	51	35.20	1.4
BKS	80.45	321	eP	51	34.00	0.5
	0.8 s	41.00nm			5.4mb	
MEMT	80.77	332	eP	51	36.40	0.7
BGMT	80.92	332	iPd	51	37.20	0.6
			e	51	53.80	59km
MCMT	80.95	331	iPd	51	37.90	1.2
			e	51	54.80	61km
ORV	81.23	323	eP	51	38.50	0.5
SXM	81.31	333	iPd	51	39.30	0.8
LRM	81.57	332	iPd	51	40.70	0.8
			e	51	57.60	60km
HBMT	81.61	332	iPd	51	41.10	0.9
			e	51	58.20	61km
BUT	81.77	332	ePd	51	42.10	1.2
MRY	82.02	333	ePd	51	43.00	0.9
WDC	82.51	323	eP	51	43.70	-0.9
LBFM	82.71	324	P	51	46.00	0.1
TIO	83.19	51	iP	51	50.40	1.9
			i	52	07.50	61km
FHC	83.46	322	eP	51	50.80	1.3
AVE	84.50	49	iP	51	56.00	1.1
			i	52	13.00	60km
SES	84.68	335	eP	51	55.00	-0.5
	1.3 s	149.00nm			5.9mb	
FFC	85.44	342	iPd	51	58.30	-0.8
	1.2 s	48.00nm			5.5mb	
NEW	85.47	331	iP	51	58.80	-0.7
	1.0 s	47.50nm			5.6mb	
			iP	52	15.30	58km
			e	52	52.70	
DPW	85.65	330	P	52	00.30	-0.1
			pP	52	16.80	58km
SLR	86.01	117	iPc	52	00.50	-2.4
IFR	86.17	50	iPd	52	04.00	0.6
			i	52	22.00	64km
RMW	87.02	328	P	52	06.20	-0.9

PNT	87.36	330 ePd	52 08.00	-0.6	PLM	6.90	293 eP	11 42.00	4.6X	HAU	77.62	341 eP	27 04.90	-0.5
	0.6s	24.00nm		5.6mb	PV09	7.59	1 (Pn)	11 47.50	0.4		0.8s	18.80nm		5.2mb
EDM	87.81	336 iPd	52 09.60	-1.1			ePg	12 15.80		Z	18s	0.10um		4.2msz
LTZ	90.00	221 eP	52 21.90	0.3	GSC	7.71	307 eP	11 48.00	-0.6	OGA	77.69	338 iPd	27 07.30	1.2
TOL	90.54	45 iP	52 43.00	19.1X	SBB	8.15	300 eP	11 55.00	0.3		0.8s	16.00nm		5.1mb
	1.4s	93.02nm			ISA	9.06	304 eP	12 17.00	9.6X	BSF	77.70	341 P	27 05.87	-0.1
BCAO	91.08	86 iPd	52 27.80	0.8	TNP	9.72	320 e(P)	12 18.50	1.9X	LOMF	78.15	341 P	27 07.91	-0.5
	0.7s	48.00nm		6.0mb	MEO	9.78	64 e(P)	12 15.50	-1.7X	CTI	78.32	337 P	27 08.50	-0.9
		i	52 45.00	60km		S.D. = 0.5	on 18 of 23 obs.			ASPA	78.39	203 eP	27 24.40	14.5X
YKA	95.54	341 eP	52 44.80	-1.5							0.7s	4.40nm		
	0.9s	12.90nm		5.4mb						Z	23s	0.40um		4.7msz
PMR	107.90	330 PKP	58 09.50	20.7X		OCT 31, 1990	15h 15m 11.32± 0.38s			LOR	78.80	343 eP	27 11.50	-0.4
ASPA	124.72	207 iPKPd	58 20.70	-1.5		51.984 N ± 7.8km	158.683 E ± 5.3km				0.9s	33.60nm		5.3mb
	1.2s	22.00nm				DEPTH = 33.0km (normal)				Z	22s	0.15um		4.3msz
		i	58 38.80			5.1mb (32 obs.)	4.2msz (2 obs.)			GRC	78.92	343 P	27 13.04	0.5
QIS	124.76	215 iPKPd	58 21.50	-0.8		NEAR EAST COAST OF KAMCHATKA	(218)			MDI	79.02	338 P	27 13.00	-0.1
WBS	127.86	210 ePKP	58 27.00	-1.3		Felt (111) at				LBF	79.05	343 eP	27 12.70	-0.6
		e	58 46.50			Petropavlovsk-Kamchatskiy.					0.7s	8.80nm		4.9mb
MAIO	136.67	64 iPKPd	58 45.00	0.3						SSF	79.06	343 eP	27 13.10	-0.2
		e	01 26.00		MAT	21.18	231 (P)	19 57.00	1.1		0.7s	16.55nm		5.1mb
QUE	142.55	74 ePKP	58 51.40	-4.3X	TTA	26.14	48 eP	20 43.60	-0.2	VAI	79.15	339 P	27 14.00	0.2
		eS	02 20.00		IMA	27.45	41 eP	20 55.20	-0.6	AVF	79.35	343 eP	27 14.90	0.0
GUA	144.43	256 iPKPd	58 56.70	-2.3		0.7s	7.00nm		4.4mb		0.8s	27.55nm		5.3mb
	0.8s	334.33nm			KDC	28.16	59 e(P)	21 10.10	7.9X	SMF	79.40	343 eP	27 15.10	-0.1
		pP	59 14.20		PMR	29.37	50 e(P)	21 12.00	-1.0		0.8s	12.10nm		4.9mb
GUMO	144.49	256 iPKPd	58 56.80	-2.3	FBA	29.82	44 eP	21 16.30	-0.8	VAY	79.56	328 eP	27 16.00	-0.1
	1.2s	755.56nm					e	21 33.10		BGF	79.67	343 eP	27 16.50	-0.1
PJG	144.49	256 iPKPd	58 56.70	-2.4			e	21 24.50	-0.5		0.7s	12.15nm		5.0mb
KOD	145.63	112 iPKPd	59 02.00	0.5	TOA	30.72	49 eP	21 24.50	-0.5	LPL	79.92	340 eP	27 18.80	0.5
	1.0s	190.00nm					e	21 54.20			0.8s	17.45nm		5.1mb
TRT	145.73	185 iPKPd	59 01.60	0.3	MBC	38.40	22 ePc	22 30.50	-0.1	LPG	79.93	340 eP	27 19.00	0.6
	1.3s	331.20nm				0.7s	5.00nm		4.4mb		0.7s	11.60nm		5.0mb
POO	146.18	96 iPKPd	59 02.00	0.1	YKA	44.57	41 eP	23 21.30	0.0	TCF	80.04	344 eP	27 18.70	0.0
GBA	147.31	107 PKP	59 04.00	0.3		0.6s	3.70nm		4.4mb		0.8s	14.80nm		5.0mb
HYB	149.93	101 ePKP	59 07.00	-0.8	NEW	51.21	59 eP	24 14.00	0.6	MAF	80.04	343 eP	27 19.20	0.5
	1.0s	160.00nm				1.0s	7.00nm		4.6mb		0.7s	18.20nm		5.2mb
		e	59 12.00		DAG	51.51	359 iPd	24 14.20	-0.9	PLDF	80.10	343 P	27 19.97	0.9
NDI	151.36	78 iPKP	59 11.00	1.3		0.8s	25.37nm		5.2mb	AGO	80.11	343 P	27 20.11	1.1
PPI	151.67	160 ePKP	59 16.50	6.0X			iP	24 34.00	79kmX		80.19	344 eP	27 19.60	0.1
MAT	153.72	299 (PKP)	59 11.00	-1.8			iSP	24 48.20		LSF	80.27	336 P	27 25.50	5.7X
PSI	154.12	155 ePKPc	59 14.50	0.5	FFC	54.42	45 eP	24 36.00	-1.0	SFI	80.38	340 P	27 22.00	1.4
KGM	154.81	165 ePKPc	59 23.70	8.8X		0.7s	8.00nm		4.9mb	BNI	80.39	335 P	27 21.00	0.5
IPM	156.61	158 ePKPc	59 18.90	1.5	CHG	56.83	258 iPc	24 55.40	0.5	ARV	80.42	343 P	27 21.79	1.0
GKN	157.86	81 PKP	59 18.66	0.0	TNP	57.80	68 eP	25 02.00	0.2	PYM	80.44	337 P	27 22.00	1.1
	1.1s	71.00nm				1.0s	7.50nm		4.7mb	BDI	80.88	343 P	27 24.28	1.3
DMN	158.25	82 PKP	59 19.48	0.2	GUN	58.15	276 P	25 02.98	-1.5	LBL	81.11	344 eP	27 24.80	0.5
	1.3s	80.00nm			KKN	58.60	276 P	25 06.38	-1.1	RJF	0.9s	16.40nm		5.0mb
KKN	158.42	81 PKP	59 19.36	-0.1	PKI	58.68	276 P	25 06.94	-1.3	CAF	81.39	343 eP	27 26.70	0.9
	1.1s	71.00nm			DMN	58.84	276 P	25 08.22	-1.0		0.8s	19.80nm		5.2mb
PKI	158.52	82 PKP	59 19.42	-0.3	GKN	58.85	277 P	25 07.82	-1.3	LFF	81.60	344 eP	27 27.50	0.7
	1.3s	65.00nm			SUF	59.68	337 iP	25 13.80	-0.5		0.9s	26.20nm		5.3mb
GUN	158.95	81 PKP	59 20.38	0.2	NUR	61.95	336 eP	25 25.00	-4.7X	AZI	81.67	335 P	27 27.50	0.3
	1.2s	118.00nm			PV09	62.05	63 eP	25 32.00	0.9	LPOF	81.77	344 eP	27 28.40	0.6
BJI	165.53	339 ePKP	59 26.00	0.3	NB2	64.36	343 P	25 44.80	-0.8		0.8s	20.15nm		5.2mb
	Z 15s	0.29um				0.7s	25.50nm		5.4mb	SDI	81.83	334 P	27 28.00	-0.2
CHG	167.52	126 iPKPd	59 28.50	0.5	HFS	64.74	341 eP	25 46.20	-1.8	JVI	82.84	314 eP	27 39.00	5.5X
	1.1s	18.99nm				0.4s	6.70nm		5.1mb	TDS	83.02	332 P	27 35.00	0.7
SSE	168.85	296 ePKP	59 25.00	-3.4X	EKA	71.99	349 P	26 33.00	-0.1	PRNI	84.35	314 eP	27 46.50	5.3X
LZH	169.41	26 PKPd	59 30.50	1.6		0.7s	8.40nm		4.8mb	MBH	84.89	314 eP	27 49.00	5.1X
		pPKP	59 47.50		CLL	73.07	338 iP	26 39.00	-0.5		S.D. = 0.7	on 79 of 86 obs.		
KMI	173.71	102 PKPd	59 31.00	-0.2		1.4s	27.00nm		5.1mb					
		pP	59 50.00		BRG	73.26	338 eP	26 40.30	-0.3					
	S.D. = 1.1	on 126 of 151 obs.			OLY	73.56	53 eP	26 42.00	-0.6					
					PRU	73.94	337 eP	26 44.50	0.0					
					MOX	74.01	339 eP	26 45.00	0.0					
					GBA	74.03	272 Pc	26 45.10	-0.4					
						0.7s	10.50nm		4.9mb					
					WB5	74.64	204 eP	26 49.00	0.1					
					KHC	74.97	337 eP	26 51.00	0.4					
					GRF	74.99	339 eP	26 50.90	0.2					
						0.9s	13.00nm		4.9mb					
					MEM	75.19	342 Pc	26 52.10	0.4					
					SNF	75.60	343 Pc	26 54.20	0.1					
					DOU	75.94	343 P	26 55.00	-1.0					
					GWF	76.44	341 P	26 58.97	0.1					
					WLS	77.03	341 P	27 02.42	0.2					
					CDF	77.05	341 eP	27 01.90	-0.5					
						0.8s	14.80nm		5.1mb					
					WATA	77.13	338 iPd	27 03.50	0.6					
						1.0s	16.50nm		5.0mb					
					ECH	77.26	341 P	27 03.53	0.1					
					SQTA	77.32	338 iPc	27 04.40	0.5					
						0.8s	21.80nm		5.2mb					
					FEL	77.40	340 P	27 03.94	-0.5					
					VITF	77.49	342 P	27 05.14	0.5					
					FVI	77.53	337 P	27 06.50	1.6					
					MOF	77.61	341 P	27 05.32	-0.2					

0.6s 12.63nm
eSn 31 00.00
GKN 26.61 100 P 34 51.18 -0.5
DMN 27.16 100 P 34 57.52 0.7
KKN 27.22 100 P 34 57.36 0.1
PKI 27.42 100 P 34 59.64 0.4
0.8s 10.00nm 4.5mb
GUN 27.64 99 P 35 01.60 0.3
NB2 36.64 326 P 36 19.20 0.0
1.2s 4.20nm 4.2mb
S.D. = 0.6 on 8 of 8 obs.

? OCT 31, 1990 17h 52m 19.06 ± 7.55s
39.763 N ± 47.1km 27.876 E ± 36.6km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.2 (ISK).

EDC 0.58 359 iPg 52 31.00 0.1
iSg 52 41.00
BNT 0.59 3 ePg 52 30.90 -0.2
iSg 52 41.40
KCT 0.61 37 iPg 52 31.40 0.0
IZI 1.35 64 ePn 52 44.00 0.0
S.D. = 0.2 on 4 of 4 obs.

* OCT 31, 1990 18h 23m 17.00 ± 1.06s
38.731 N ± 8.3km 26.505 E ± 11.1km
DEPTH = 12.0 ± 5.1 km

AEGEAN SEA (365)
MD 3.9 (ISK).

IZM 0.68 119 iPg 23 31.30 1.0
eSg 23 40.30
EZIN 1.10 353 iPn 23 38.30 0.8
CIN 1.68 132 eP 23 46.00 -0.3
EDC 1.93 33 iPn 23 51.00 1.1
BNT 1.96 34 iPn 23 51.40 1.1
KCT 2.09 43 iPn 23 51.40 -0.8
MFT 2.14 16 iPn 23 53.40 0.4
KHL 2.40 99 ePn 23 57.50 0.7
CTT 2.83 31 ePn 24 01.90 -0.9
ALT 2.83 82 ePn 24 04.00 1.1
KDZ 3.03 344 iP 24 05.00 -0.6
ISK 3.05 39 ePn 24 15.00 9.2X
GBZT 3.06 47 ePg 24 16.50 10.5X
HRT 3.21 48 ePn 24 18.00 9.8X
RZN 3.26 336 iP 24 09.00 0.0
VAY 3.98 312 eP 24 33.00 14.0X
VTS 4.60 328 eP 24 29.00 0.9
S.D. = 0.9 on 13 of 17 obs.

OCT 31, 1990 18h 27m 12.51 ± 0.47s
42.352 N ± 4.7km 19.404 E ± 4.0km
DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)
ML 2.5 (TTG).

TTG 0.13 306 iPg 27 15.70 0.1
iSg 27 19.80
ULC 0.41 197 ePg 27 19.50 -1.3
eSg 27 25.00
BDV 0.43 261 ePg 27 21.50 0.2
eSg 27 29.50
PVY 0.49 60 ePg 27 22.00 -0.4
eSg 27 29.00
BCI 0.49 88 iPg 27 22.10 -0.4
NKY 0.55 327 ePg 27 23.50 -0.1
eSg 27 32.50
HCY 0.68 278 ePg 27 26.50 0.5
eSg 27 38.00
LACI 0.75 162 ePg 27 27.50 0.3
BRY 0.84 311 ePg 27 28.60 -0.2
eSg 27 44.80
TIR 1.06 161 ePg 27 33.70 1.2
SKO 1.56 103 ePn 27 41.60 1.3
iSg 28 02.50
OHR 1.62 139 ePn 27 40.20 -1.1
S.D. = 0.9 on 12 of 12 obs.

? OCT 31, 1990 18h 32m 51.99 ± 10.25s
61.847 N ± 23.3km 1.708 E ± 85.1km
DEPTH = 10.0km (geophysicist)

NORWEGIAN SEA (642)
MD 2.6 (BER).

SUE 1.67 117 iPd 33 21.31 0.0

ASK 2.17 127 eS 33 39.53
eP 33 28.87 0.2
eS 33 52.39
HYA 2.25 106 iPc 33 29.75 -0.1
iS 33 54.12
MOL 2.83 73 eP 33 38.04 0.0
eS 34 08.69
ODD1 3.09 127 eP 33 41.78 0.0
eS 34 15.10
BLS1 3.53 132 iPc 33 47.94 0.0
iS 34 25.19
BLS2 3.63 133 iPc 33 49.41 -0.1
iS 34 27.46
S.D. = 0.1 on 7 of 7 obs.

* OCT 31, 1990 18h 44m 23.09 ± 1.75s
30.679 S ± 12.7km 68.979 W ± 19.8km
DEPTH = 33.0km (normal)

SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.78 146 iPc 44 37.60 -0.1
RTCB 0.82 169 iPd 44 39.00 0.7
ZON 0.90 163 iPd 44 39.00 -0.5
eS 44 52.00
RTBS 1.06 202 iPd 44 41.50 -0.1
RTCV 1.24 162 iPc 44 40.00 -4.2X
MDZ 2.20 177 eP 45 10.00 11.9X
i 45 12.70
i(S) 45 16.90
CYA 3.56 52 e(P) 45 17.40 0.0
S.D. = 0.6 on 5 of 7 obs.

* OCT 31, 1990 20h 53m 28.54 ± 1.68s
8.734 S ± 11.1km 123.973 E ± 9.9km
DEPTH = 75.5 ± 17.7 km
5.4mb (6 obs.)

FLORES ISLAND REGION (286)

KUPT 1.45 194 ePc 53 52.50 -1.0
eS 54 06.50
MTN 8.13 121 iPc 55 28.10 2.0
0.3s 102.00nm 6.0mb X
KNA 8.40 147 eP 55 29.50 -0.3
0.2s 29.00nm 5.7mb X
eS 56 54.00
MBL 12.98 197 eP 56 31.40 -0.1
eS 58 44.00
WB5 14.96 139 eP 56 55.00 -2.3
eS 59 30.00
NANU 15.96 210 eP 57 12.00 2.0
eS 59 55.00
WARB 17.54 172 eP 57 30.30 0.7
ASPA 17.63 149 iPd 57 30.80 0.0
0.5s 22.10nm 4.6mb
eS 00 34.50
QIS 19.13 130 iPd 57 49.20 0.6
eS 01 08.00
MRWA 21.71 199 eP 58 14.60 -0.4
FORR 22.34 171 eP 58 20.30 -0.8
GUN 51.81 316 P 02 31.78 0.2
0.6s 40.00nm 5.7mb
PKI 51.92 315 P 02 32.14 -0.2
0.4s 28.00nm 5.6mb
KKN 52.15 315 P 02 33.86 -0.1
0.5s 14.00nm 5.2mb
DMN 52.16 315 P 02 33.80 -0.2
0.6s 16.00nm 5.2mb
GKN 52.73 315 P 02 38.04 -0.1
0.4s 33.00nm 5.7mb
S.D. = 1.2 on 16 of 16 obs.

* OCT 31, 1990 21h 07m 04.23s
62.299 N 151.129 W
DEPTH = 84.4km
CENTRAL ALASKA (1)
<AGS-P>.

SKT 0.37 211 iP 07 16.94 -0.7
CUT 0.41 75 iP 07 17.23 -0.7
SUA 0.86 168 eP 07 22.06 -0.2
PWA 0.88 137 eP 07 21.99 -0.4
HUR 0.97 45 eP 07 22.62 -0.9
eS 07 36.06
NCG 1.02 209 iP 07 23.27 -0.9
CGLM 1.08 203 iP 07 23.99 -0.9
CRP 1.14 206 eP 07 25.00 -0.8
GHO 1.17 116 iP 07 25.49 -0.4

PLRM 1.18 126 eS 07 42.64
eP 07 25.00 -1.0
BGL 1.20 211 eP 07 25.92 -0.5
SPU 1.20 202 iP 07 25.52 -0.9
eS 07 42.07
CKL 1.25 208 iP 07 26.24 -0.7
PMS 1.29 144 eP 07 26.71 -0.8
SML 1.41 109 eP 07 28.01 -0.9
RND 1.52 42 eP 07 29.35 -1.2
KNK 1.55 124 eP 07 29.79 -1.0
NKA 1.56 182 eP 07 32.60 1.7
RDT 1.84 200 eP 07 33.87 -0.8
SCM 1.85 103 eP 07 33.57 -1.3
SLKM 1.85 166 eP 07 33.85 -1.0
TOA 2.33 93 eP 07 39.58 -1.8
SEW 2.35 159 eP 07 43.57 2.1
GLI 2.40 125 eP 07 39.73 -2.5
NEA 2.47 21 eP 07 40.75 -2.4
VZW 2.51 118 eP 07 41.78 -2.0
KNIM 2.55 139 eP 07 40.98 -3.3
VLZ 2.57 115 eP 07 42.17 -2.3
WRH 2.57 31 eP 07 42.58 -2.0
KLU 2.60 106 eP 07 42.50 -2.5
SDG 2.61 83 eP 07 44.61 -0.5
PAX 2.70 73 eP 07 45.76 -0.7
CCB 2.79 31 eP 07 45.43 -2.1
HDA 2.83 40 eP 07 46.25 -1.9
34 obs. associated

OCT 31, 1990 21h 20m 06.74 ± 0.97s
42.744 N ± 9.0km 142.590 E ± 8.2km
DEPTH = 99.9 ± 8.3 km
4.5mb (8 obs.)

HOKKAIDO, JAPAN REGION (224)

SAP 0.98 289 eP 20 28.00 0.9
iS 20 42.60
MAT 7.06 210 (P) 21 48.00 -1.1
eS 23 06.00
BJI 19.98 271 eP 24 31.50 -1.7
0.8s 11.00nm 4.2mb
LZH 30.46 271 (P) 26 12.50 0.4
1.0s 20.00nm 4.8mb
SVW 40.51 41 eP 27 37.70 0.7
IMA 41.37 34 eP 27 43.10 -1.0
PMR 43.59 40 eP 28 01.40 -0.6
0.6s 4.80nm 4.5mb
CHG 43.80 251 eP 28 05.50 1.2
FBA 43.86 35 eP 28 03.80 -0.3
e 28 25.40
TOA 44.91 39 eP 28 12.90 0.2
GUN 47.72 271 P 28 36.06 0.4
KKN 48.23 271 P 28 39.48 0.1
0.8s 30.00nm 5.2mb
PKI 48.26 271 P 28 39.72 0.0
DMN 48.46 271 P 28 41.56 0.3
GKN 48.59 272 P 28 42.12 0.1
NDI 53.66 277 eP 29 20.00 0.0
PSI 55.67 237 ePc 29 34.60 -0.2
GBA 62.68 263 Pc 30 23.00 -0.1
0.9s 9.30nm 4.7mb
ASPA 66.56 189 eP 30 47.70 -0.3
0.9s 7.90nm 4.6mb
HFS 69.27 335 eP 31 03.70 -0.8
0.4s 1.60nm 4.2mb
NB2 69.28 337 P 31 03.80 -0.8
1.0s 3.60nm 4.2mb
WARB 70.14 195 eP 31 10.50 0.4
SIV 146.52 44 PKP 39 38.60 2.1
S.D. = 0.9 on 23 of 23 obs.

OCT 31, 1990 22h 13m 09.31 ± 0.56s
45.955 N ± 6.5km 15.565 E ± 4.4km
DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)
MD 3.0 (LJU). 2.7 (TRI). Felt at
Bistrica ob Sotli.

PTJ 0.28 101 iPg 13 14.90 -0.3
iSg 13 19.50
ZAG 0.32 115 ePg 13 15.90 -0.1
iSg 13 21.10
VBY 0.50 206 iPg 13 20.10 0.7
eSg 13 27.60
LJU 0.72 277 iPg 13 22.90 -0.7
iSg 13 33.40
CEY 0.82 255 ePg 13 24.50 -0.8

31d 22h

			i	13	26.80	
			eSg	13	37.30	
VOY	1.17	274	iPnc	13	30.00	-1.2
			eSn	13	48.30	
TRI	1.28	260	iPgc	13	32.80	-0.3
			iSg	13	51.10	
FVI	2.03	289	P	13	45.40	1.4
			eSn	14	17.00	
VKA	2.37	12	e(Pn)	13	49.00	0.2
			e	14	14.00	
			e	14	34.00	
CTI	2.73	273	P	13	55.30	1.2
			eSn	14	32.50	
KHC	3.45	338	eP	14	04.00	-0.2
			e	14	13.50	
PRU	4.09	351	Pd	14	25.00	11.8X
			e	14	55.50	
S.D. = 0.9 on 11 of 12 obs.						

STATION DATA REPORT FOR OCTOBER, 1990

1400 stations reported 57164 reading arrival groups

X = data received for this 6-hour time period

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
AAI	XXXX		X		XXXX	XXX		XXXX	XXXXX	XXXX		X	XX	X	XXXXX	XXX														XX	XXX			
ABH		X	XX		XXX			X				XXXX	X	X											XXXX	X		X	X		X	XXX	X	
ABHA			X					X								X									XXXXX	X								
ABL	X	XX			X	X	X		XXX	XXX	X		X	X	X				XX	X	XX	X		X	XX	X	X	X	X		X	X		
ACX	X		X	X	X	X	X		XX	XXXXXX	XX	X	XXXX	XX				XX		X	XX	X		X	X	XX	X	X	X	X	X	XX		
ADE	XX	XX		XX			X		X	X	XX	X	XX	X				X	X	XX	X		X	XX	X	XXXXX		X	X	XXXX				
ADI				X			XX		X	XX			X		X			X		X			X	X	X	X	X	X	X	XX	X	X		
ADK			XX				X		X		X	X	X	XX	X	X	XXX	X			X	X	X	X	X	XXX				X			X	
AFC	X		X				X	X		XX	XX			X	X	X	XX				X	X	X	X	X	XX		X	XX					
AFIF		X	X					X	X		X	X	XX	X	X	X	X			X	X	X			XXXXX		X		X					
AFR		X		X					XX			X	XX					X			X	XX	X	X	X									
AGG		X			X	XX	XXX	XXX				XX	X	X	XXX	X	XX	X			X				X		X	X	XX	X	XXXX	X		
AGO		XXXX			X	X					X		X	X	XX	X				X	X	X			X	X	X	X	X	X	X	X		
AIA	XXXXXXX	XX	XX	X	XXX	X	XXX	XXXXXXXXXX	XX	XXXXXXXXXX	XX	XXXXXXXXXX	XXX	XX	XX	XX	X	XXX	XXX	X	X	XX	XXX	XXXXXXXXXXXX	XX	XXXXXXXXXXXX	XX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
AKRL			X						X			XX	X	X	X																			
AKSR			X								X		XX	X	X	X																		
AKU																X																		
ALN			X		X	X	XX	XX				XX	X	X	X	X																		
ALO	XXX	XX	X	XX	XXXXXXXXXXXXXX	XXX	XXXX	X	XXX	XXXX																								
ALT	XX	X	XXXX	XXX	XXX	XXXXXXXXXX	XX	X	XX	XXX	XX	X	XXXX	XXX	XXX										XXXX	XXXX	XXXXXXXXXXXX	XXXXXX	X	XX	X	XX	XXXX	XXXX
ANM	X		X																															
ANMO	X	X	XX	X	XX	XXXXXXXXXX	X	X	X	XX	XX	X	X	XXXXX	XX	XX	X	XX	XXXX	XX	X	XX	X	XX	X	XXX	X	X	XX	X				
ANP		X			X	X			XX	X	X	XX	X	X	X	X				X	XXX	X	X	X	XXX	X	X	X	X					
ANT	XXX	X	XX	X	XXXX	XX	X	XXX	XXXX	XX	X	X	XX	X	XXXXX	X	X	XX	XXXX	XX	XXXXX	X	X		X	XXX	XX	XX	X	XX	X	X		
AOMJ		X					X	X																										
APE		X			XX	X		X	X	X	XXXX	X	XXXX	X											XXXXXXXXXX		XXXXXXXXXX	X	X					
APD	X	X	X		X	X	X	X	X	X	XX	X	X	X	X										X	X	X	X	X					
AQU	X	X	X		X	X		X	XX	XX			X	X	X	X									XXX	XXX								
ARE	X	XX	X	XX	X	XX	XX	XX	XXXXXX	XXXXXXXXXX			XXXX	X	X	XXXXXX	X	XXXXXX	XX	XXXX	XX				X	XX	XXX	X	X	XX	XX	X	XX	
ARG		X	X	X			X	XX	XX	X	X				XXXXX	X	XX	XX	X	X	X				X	XX	XX			XXXX				
ARN	X	X	X		X	X	X	X	XX	XXXX			XX	X											XXXXX	X	X	XX	X					
ARV	XX	XXXXXX	X	XX	X	X	XXXX	X	XX			XXX	X	XX	X	X	X	X	XXXX	XX	XXX	XX			XXXXXXXXXX	XX	X	X	XXX	X	X			
ASAJ	X	X		X	X				XX			X	X												XX	X	X	XX	X	X				
ASK	X		X				X	XX	X	X															XXXXXX	XX								
ASPA	XXXXXXXX	XXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	
ASS	X	X		X																					X	X								
ATR	XXXXXXXXXX	XX	XX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	X	XX	X	X	X	X	X	XXXX	XXXX	XXXX	XXXX	XX	X		XXXXXXXXXX	XX	X	X	X	X	X	XX		
ATE	X	X	X				X	XX	XX			X	X	X	X										X	X	X							
ATH	X	X			X	X		XX	XXXX	XXX	X	XXX	XXXX												X	XXXXX	X	X	XXXX	X	XXX			
ATN	X	X	X		XXX	X	X		XX			X			X	XXX	XXX	X	XX						X	XXX	XX	X	XXXX	X	XXX	X	X	
AUE	X	X			X	X	X		XX	XX			XX	X											X	XXX	XX	XX	X	XX	XX	X	X	
AUH	X	X			X	X	X		XX	XX			XX	X											X	X	X	X	X	X	XX	XX	X	X
AUI	X				X	X	X		XX	XX			XX	X											X	XXX	X	X	X	XX	XX	XX	X	X
AURF		X			X	X	XX	X	XX	X	X		XX	XX	X										XX	XX	X	X	XX	X				
AUTN		X			X	XX	X	XX	X	XX	X	X		XX	XX	X									XX	XX	X	X	XX	X				
AVE									X	XXXX	XXXX	X	X	X	X	X									XXX	X	XX							
AVF	X	XXXXXXX	XXX	X	XX	XXXX	X	XXX	XXXX	X	X	X	XX	XXXXXXXXXX	XXX	XX	XX	XXX	XXX	X	XXXXXX	XXXX	X	XXXXXX	XXXX	X	XXXXXX	X	XXXXXX	X	XXXXXX	X	XXXXXX	
AYN		X	XX	X	X				XX				X	X	X										X									
AZI	XXXXXXXX	X		X	X	X		X	XXX	XXX	X	XX	X	X	X	X	X	XX	X	XXX	X	XXX	X	X	XXXXXXXX	XX	X	X						
BADA		X	XX	X	X			XX				X													X	XX	XX	XX	XX	X	XX	X		
BAG																									XX	XXX	XXX		XX					
BAL		X		X	XX	X	XX		XX	X			X	XXX	XXX	X	X	X	X	X	X	X	X	X	XXXX		X	XX	X	X	X	XX		
BALM	X	X	X	XX			X	X	XX	XXX															X	XX	X	X	X	X	X	X	X	
BAO	XX	X	X			XXXX	X	XX	XX	X	X	X	X	X	XX	X								X	XXX	XX	X	XX	XX	XX	XX	XX	XX	
BAR	X	XX					XXX	X				XXX	X	X	XX	X									X	XXX	XX	X	X	X	X	X		
BBL	X	X	X				X	XX	X	XX	X	XX													X	XX	X	X	XX	X				
BBS		X																																
BBTK	XX	XXXXXXXXXX	X	X			X	XXX	X	XXX	X	XXX	X	XXXXXXXXXXXXXXXXXXXX	X	XXXX	XX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXXXXXXXXXXXXXXXXXX	X	XXXX	X	XXXX	X	XXXX	X	XXXX	
BBU	X				XX			X	X	X	XXX	X	XX	XX	X	X									X	X		X						
BCAO		X							XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
BCH		X	XX			X		X	X	XXX	XXXX	X		X										X	XXXX	X	X	XX	X	X	XXX			
BCI																									X	X	X	X	X	X	X	X	X	
BCK		XX	X	XXX	XXXXXXXXXXXXXXXXXXXX	XXXX	X	XXXXXXXXXX	X	XX	XXX	XXX	X	X	XXXXX	XX	XX								XXXX	XX	X	X	XXXX	X	X			
BDI	X	XXXX	X			X	X	X	XX	X	XXX	X	X	X	X	X									X	XX	X	X	X	X	X	X	X	
BDT	XX	X	X	XXX	XXX	XX	XXX	X		XXX	X	XXX	X	X	X	XX	X	X	XX	X	XX	XX	XX	XX	XX	XX	X	XX	X	XX	X	X		
BDV	X		X	X	X	X	X	X				XXX		X	XX	X									X		X	X	X	X	X	X		
BEO		XX	X			X	X	XX	X	X	X	XX	XXX	X	XX	X	XX								XXX	X	XX	X						
BER																									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		
CNB	XX	XX		X	XX		X		X	XXX	X			XXX	XXX	X		X	X	X	X	XX	XXX	X	XX		X		XX	X	X	X	
CNCB	XXXXXXXXXX	XXXXXX	XXXXXXXXXXXXXXXXXXXX									XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	
CN1L		X	X						X	XX							X							XX								X	
CNPM	X	X	XXX	XX		X	X	X	X	XX	XX	XXX			XXXXX		XX	X	XX	XXXX	X	XXX	X	XX	XXX	X	X	X	X	XX	XX	XX	X
COO	XX	XX		X	X				X	XXX	XXX		X	X	XX	XXX	XXX	X	X	X	X	XX	X	XX	X	XX		X	XX	XX	X	X	
COOL	XX		X	XX	X		X	X		XXX	XX		X					X	X		XXX	X	X	X	XXXXX	X		XX	XXX		X	XX	
COTA		X	X			X	X		X	X	XX		X	X	X		X				XX	X		X	X	XX	XX	X	X		X	X	
COZ		X	XX	XX		X				X		X	X	X	X	X	XXX	X		X				XXX			X			X	X		
CPD						X				XXX	X	X						X	X	X								X	X	X		XX	
CRE	XXXX	X			X	XX	X	X			XXX	XXX	X	XX	X	X	XXX	X	X		XX	XXXX	X			XX	X	X	XX	XX	X	X	
CRP	X	XXXX	XX		X		X	X		XXX	XX	XXX			XXXX		XX	X	X	XX	XXXX	X	XXX	X	XXX	XXXXXX	X	X	X	X	XX	XX	XX
CRX					X					XX	X		X	XXX												X	X	X	X	X	X	XX	
CSB				X			X	XX			XXX	X					X															XX	
CSI	X	XXXX	X		X	X	XX	XXX	X	X	XXXX	XXXXXX	X	X	XXXX	XX	XX	X	XXX	XXX					XXXXXX	X	XX	XXXXXX					
CSS		X		XX	X		XX			X	XXX	X			X	X	X	X	X	X						XX	XXX	X	X	XX	XX	X	
CSTJ			X		X					X			X	X	X		X	X	X	X													
CTA	XX	XX		XXX	XX	XXXX	X	XXX	X	XXXX	XXX	X	XXX	XXX	X	XX	XX	X	XX	X	XXX	X	X	XXX	XXXX		X	XX		XX	XX	XX	
CTI	X	XXXX		XX	X	XX	X	X	XX	XXXXX	XX	X	X	XXX	X	XX	X	X	X	X	XX	X	XXX	X	XXXXXXXXXX	XXX	X	X	XX		XXXXXX		
CTT	XX	XXXXXX	X	XXXXX	X	XXX	XXXXXXXXXXXX	X	XXXXXXXXXX	XXXX	X	XX	X	X	X	X	X	X	X	XXXXX	X			XXXXXXXXXXXX	XXX	X	XXX	X	XX				
CUM				X		X	XXX	X	X		X	X	XX		XX		X	X	X	X	X	X			X	X	X	X					
CUT	X	XXXXX	XX		X		X	X	XXX	XX	XXXX			XXXXX		X	X	X	XX	XXXX	X	XXX	X	XXX	XXXX	XXX	X	X		XX	XX	XX	X
CVO		X	X				X	XX	X				X	X	X		X	XX						XX	X	XX							
CYA						XX	X	XX	X	X			XX	X	XX	X	X	X	XX		X	X			X	X	X	X		X			
CZ1	X	XXXXX	X		X	XXXXXX	XXX	X	XXXX	XXXXX	X	X	X	XXXX	X	XXXXXXXXXX	X	X	X	X	X	X	X	X	XXXXXXXXXX	XXX	X	X	X		X		
CZM			X				X			X							X	X	X														
DAG		X	X	X	X	XXX		X	XXXXX	X	XXX	X	XX	X	X										XX	X	X	X	XXX	XXXX	XXX		
DAU	X				X	X	XXX	X	X	X	XX	X		X	X			XX	XX		X	XXX	X	XXXXX	X	XX	X	X	X	X	X	XX	
DDM	X	X	XX	XX		X		XX	X	X	X		XXX				X	X			X	X	X	X	X	X	X	X	X	X	X	XX	
DEG																																	
DEV	XXXX					X			XX	XX	X														X		X						
DHR	X						X	X			X	X		X	X	X		X	X	X				XXXXX	X								
DIM		X	X	X		X	XX	XXX	XX		XX	X		X	X	XX					X	X	X	X	X	X		X	X	X	X	X	
DIX	XXXXXX									XX	XX	X		XX	X	X	X	X		X	X	X	X	XXXXXX		X	X					XX	
DL2		X								XXXX		X	X	X	X	X																	
DMK		XX	X		X	X	XX	XXX	X		X		X	X	X						X	X			X	XX	XXX	X	X		XX		
DMN	XXX	XX	XXXXXXXXXX	XXXXXXXXXX	X	XXXXXXXXXX											XXXXX	XXXXXXXXXX	XXXXX	X	X	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
DOG		X				XX	X	X	X	X				X	X		X	X			X	X	X	X	X	X	XXX	X					
DOI	XX					X	X	X	X	XX				X	XX	XXX	X																
DOT	X	X	XX	X		X	X	X	X	X				XX				X	X					X	X	X	X	X	X				
DOU	X	XXXXXX		XXX	X	XX	X	X	X	XX	XXX	X	X	XXXX	XX	XXXX	X		X	XXXX		XX	XXXX	XXXX	XXXXXXXXXXXX	X	X	XX				XXXXXX	
DPW		X	X				X	X	XXX												X	XX	X	X	X	X						X	
DRA		X	X				X	X	X		XX	X	X	X	X	X					X				X	X							
DRV		X		X	X		X		X				X	XX		X	X								XX	X			XX				
DS1		X	X	X	X	XX	X		XXX		X	X	XX	X	X	X					X			X	X	X	X	XX	XX				
DST	XXX	XXX	XXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
DUG	X				X	XXX	X	XX	X	X	XX	X	X	X	XX	XX		XX			X	XX		XXXX	X	X	XXX	X	X	X	XX	XX	
DUI	XXXX	XX	X		X	X	X	X	XX	XXX	XXXX	X	X	X	X	X		X	X	XX	XX	XXXX	XX	X	XXX	XXX	XXX	XX	XX	X			
DVD		X	X	XX		X	X	X	X	X	XXX	X	X				X	XX	XX	XX	XX	XX	XX	XX	XX	X	X	XXX	X		XX	XX	
DWY	X	X							X	X	X	X	X	XXX			XX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
DZM	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	
EBAN	X		XX				X	X		XX	X			X	XXXX	XX	X							XXX		X	XX					X	
ECB		X	X							XX	X			X	X		X				X			XXX		X						X	
ECH		XX			X	X		X		X	X	X		X	X	X		X			X			XXXX	XX				XX	X			
ECHE			X				X	X		XX	XX			X	XX	X	X							X	X							X	
ECO																					X	XX			XXX	X		X	XX	XX			
ECOG	X		X				X	X		XX	XX			X	X	XX					X	X		XXXX		X	XX						
ECP		X	X				X	X	X	XX	X			X	X	X					X			XXX			X					X	
ECRI			XX				X		XX	XX	X			X	XXX	X	X		X	X	X	X		XXX								X	
EDC	X	X	XX	X	XXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	X	XX	XXX	X	X	XX	X	X	XX	XXX	XXXXXXXXXX	XX	X	X	X	XXXXX		XX	XXXXXX	XXXX	XX				XX	
EDM	X	X			X	X	X	X	XXX	X	X	XX	X	XXX	X	X		X	X		X	X					X	X	X			X	
EHOR		X					X	X		XX	X	X		X	X	X		X	X	X					X	XX							
EJIF							X			XX	X			X	XX	X					X	X		XXXXX		X							
EKA	XXX	X			X	X	X		XXX	XXX	X	X	XXXX	X	XX	X		XX	X	X	XXXX	X	X	XXXX	X	X	X	X	X	XX	X	XX	
ELC							X		X	X	X			XX	X	X		X	X					XX	XX			X		XXX	X		
ELL																																	
ELYF		X	X				X		XXX	X				X			XX																
EMON							X			XX						X																	
EMS		XX								XX	X	X		X	X	X																	
ENIJ	X		X							XX	XX			X	X	XX																	
ENN	XXX	XXXX	X	XXX		X	X	X		XXX	XXX	XXXXXX	X	XX	X	XX	X	X	XXXXXX		XX	XXXX	XXXX	XXXXXX	XXXXXX	X		X					
ENR	X	XXX	X	X		X	XX	X	XX	XX	X	XX	XX	X	XX	XX					X	X	X	X	XX	X	XX	XXXX	XX			X	
EPF		XXXXXX	X	X		X	X	X																									

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ETER		X				X				XX	X				X	XX	X			X				X			X					
ETOR		XX				X	X	X	X	X	XX	X	X		X	XXX	X	X			X	X	X		X		X					
EVA										XXX						X		X	X			X				X						
EVAL		XX				X				X		X										X			X	XX						
EVIA	X	X				X	X	X		X	XX	XX	X			XX	XX	X			X				XXX							
EVR	X	X	XX	XX		XX	XXX	XX	XX	XXX		X	XXXX	XXXX	X	X	XXX				X			XXXXXXX	XXX	XX	X	XXXXXX	X	XXX		
EVV		X				X	X	X		XX	X		XX			XX					X	X				X						
EZN	XXXXXXXXXX	XXXXXX	XXXXXXXXXXXXXXXXXXXX							XXXX	XXXXXXXX	XX	XXX	XX	XXX	XX	XXX	XX	XXX	XXX	XXXX	X	XXXXXXXXXX	XXX	XXXXXXXXXXXXXXXXXXXX	XXX	XXXXXXXXXXXXXXXXXXXX	XXX	XXXXXXXXXXXXXXXXXXXX			
FAI		X				X				XX						X								X	X	XX						
FBA	XXXXXXXX	XX	X	XXX	X	XXX	XX	XXXXXX	XXX	XXXXXXXX	XXXX	XXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	
FCM		X	XX	XX	X	XX	X	XXXX	X	XXXXX	X					X	XXX	XX	X					X		X	XXX			XX	X	
FDF	X	X								XX	X		XX	X		XX						XX	XX		X	X	X					
FEL		XXXX				X	X	X	XXX	XX	X		XX	X		X	X				X		X	X	XXXX	XXX		X			XX	
FFC	X	X	XX	X	X	XX	X	XX	XX	XXXX	X	X	XXX	X	XXX	X	XXX	XX	X	X	X	X	X	X	XXXX	XXX	X	X	XX	X	XX	
FHC		X	X			X				XXXX	X	X	X		XX	X	X				X				XXXX		X				XXX	
FIN		XXX				X	X	X	X	XXXX	XX	X		XX	XX	X	X	XX				X	X	X		XX	XX	XX	XXXX	XX		
FISA						X	X		X	X		X	XX												XX	X	X					
FLM		XXXXXX	XXX			X	XX	X	XXX	XXX	XXX	X	X	XXX	XX	XX	XXXX	XX	XX	X	XXXXXXXXXX	XXXXXXXXXX	X	X	XX	X	XXXX	X	XX	XX	XX	
FMW		X				X			X	X						X																
FNA	X	X		X	X		X	XX	XXX	XX			XX	X	X	XX	X								X		X	X	X	X	XXXX	
FORR	XX	X	XXXX	XX	X	XX	X	XX	X	X	X			X	XXX	XXXX	XX	XX	X	X	X	X	XXXX	X	X	XXXX	X	XXXX	XX	XXXX		
FRB		X	X								X	X	XX	XXX	X	X								XX	X		X					
FRF	X	XXXX	X	X	X	XX	X	X	XX	XXX	X		X	XXX	X	XXX	XX	X	X	X	XXX	X	X	XX	X	XXXX	XX					
FR1	XX	XX	X	X	X	X	X	X	XXX	XXXX	X	X	XXX	X	XX	XX	X	XX	X	XX	XX	X	XXX	X	XXXX	XX	X	XX	X			
FUD										X						X								X	XX	X	X	X				
FUR		X	XX			X	X			XX	X	X	X	XX	X	X	X				X	X	XX	X		X	X					
FVI	XXXXX	X	X	XXX	X	XX	X	XX	XX	XXXX	X	X	XXX	XX	X	XX	X	XX	X	XX	X	XX	XX	XXXX	XXXX	XX	X	XX	XX	XXXX		
FVM						XX	X	X	X	X	X	X		XX	X	X	XX	X	X					XX	XXX		X	XX			XXX	
FYU	X							X						X				X	X	X	X	XX		X	X							
GAZ		X	X	XX			X	X	X	X	X	X	X	X	X	XXX	X	XX	X	X	X	XX		X	X							
GBA	XXX	XXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	
GBTN		X				XX			X		X				X	X	XX	X	X				XX	XX		X						
GBZT	XX	X	XXXX	XX	XX	X	X	XXX	XXX	XX	XX	X	XX	X	X	XX	XX	XX	X	XX	XX			X	X	X	XX	X	X	XXX	X	
GCC	X	XX	X	X	XXX	X			XX	XXX	X	X	X			X		XX	X			X	X	XX		X	XX					
GDH																								X	XX							
GGP	X	X	X			X			X													X		X	X	XX	XX	X				
GHO	X	XXXX	XX			X	X	X	XXX	XX	XXXX	X			XXXX		X	X	XX	XXXX	X	XXX	X	X	XXXX	XXXX	X	X	XX	XX	X	
GIB						XXX	X		X			X				X								X	XX	XX		X	XX	X		
GKM	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
GLA	XX	XX			X	X	X	XXX	X	X	XX	X	X	XX	XX	XX	X		XXX			X	XX	X	X							
GLB	X	X	XX	XX	X		X	X	X	X	XXXX			XXXX				X	XX	XX	XX	XX	XX	X	X	X	X	X	X	XX	X	
GLD	X	XX				X		X	X	X	X	X			X			XX	XX	X	X	X		X	XX					X	XX	
GLI	X	XXXX	XX			X	X	X	X	XX	XXXX	X		XXXX				X	X	XX	XXX	X	XXX	X	XXX	XXX	X	X	X	XX	X	
GLK		X				X				X								X														
GLM	X	XXXX	X			X	X	X	XXX	X	X	X		XXXX				X	XX	XX	X	XX	XX	X	XX	X	X			XXX	X	
GMW		X								X	XXXX												X	X	XXXX		X					
GOL	X	X	XX			X	XX	XXX	X	X	X	XXXX	X	X	XX	XX	XX	XXX	X	X	X	XXXX		XXXX	XXXX	X	XXX	X	X	XX	XX	
GPA		X	XX	X	XX	X	XX	XXX	X		XX		X	X	XXX	XX	XX	XXX					XX	X	XX	X	X	XX				
GRC	XXX					X	X			XX	X		XX	X	X	X	X	X	X	X	X	X		X	X		X	X	X			
GRF	X	X	XX	XX	XXXX	X	X	XXXX		X	XXXX	X	XX	X	XX	XX	XX	X	X	X	X	XX	XXX		XXXXXXXXXX	XX	X	X	XX	XXX		
GRG	X	X		X	X		X	XXX	XXX		XX	X	X	XXXX		XX	X	X	X					X	X	X	XX	X	XX	X		
GRR		XXXXXX	XXX	XX	X	XX	X	XXX	XXXX	XXXX	XXXX	X	XXX	XX	XXX	XXXX	XXX	XXX	X	XXXX	XX	XXXX	XX	XXXX	X	XX	X	XX	X	X	XX	
GRW		X	X						XX	X					X																	
GSC	XX	XX		X		XX	X	XXX	X	XXXX	X	X	XX	XXX	XX	X	X	X	X	XX	XX	XXXX	XX	XXX	X	XX	X	X				
GTA	XXX	XX	X	X	XXXX	XXXXXX	X	XXX	XXXX	X	XXX	X	XXX	X	XXXX	X	XXXX	X	XX	XX	XX	X	XXXX	XXXX	XXXX	XXXX	X	X	X	X		
GUA	XXX	XXX			X	XX	XXXXXXXXXX		XXXX		X	XXXXXXXXXX	X	XX	X	XX	XX	XX	X	X	XXXX	XXXX	XXXX	XXXX		X	X	X	X			
GUAC	X					X	XX			X	XXXX	X	XX			X		X	X	X	X	X		X	X		X	X				
GUD		XXX				X	X	X	X	XX	XX	X	X	XX	X	X	XX	X	X	X	X	X	XXX		X							
GUMO	XXXXXX			X	XXXXXXXXXX	XX	XX	XXXX		XX	XXXXXXXXXX	X	XX	XX	XX	XX	XX	XX	XX	XX	XXXX	XXXX	XX	XXXXXXXXXX		X	X	X	XXX	X		
GUN	XXXX	XX	XXXXXXXXXX	XXXXXXXXXX	XX	XXXXXXXXXX																	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	
GWF		XX			X	X			X		X	X	X	X	X	X								XXXX	XX							
GYA	XXX	XX		X	XXXXXXXXXX	X	X	XX	XXXX	XXX	XXX	XXXXXX	XX	XXXX	X	X	X	X	X	X	X											
GZH		X				X			XXX						X	X	X															
HAH																															XXXX	
HAU	X	XXXX	X	X	X	XX	XXXXXXXXXX	XXX	XXXX	XX	XXXX	XXX	XX	XXXX				X	X	X	X	XXXXXX	XX	X	XXXX	XXX	XX	XX	X	XXXX		
HBMT		XX				X	X			X																						
HBVT							X			X					X	XXX						X	X	XXXX		X						
HBZ					XX	X	X	X	XXX				XX	X	X							X	X	XX	X	X	X	X	XX			
HBY	X		X	X		X	X	X			XXX			X	X	X							X									
HDA	X	XXXX	XX		X	X	X	XXX	X	X	X			XXXX						X	XX	XX	X	XXX	XXX	X	X	X	X	XX	X	
HFS	XXXXXXXXXXXX	X	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	
HHC	XX	XX			XX	XXXX	XX	X	XXXX	XXX	X	XXXX	X	X	XXX	X	XX	X	XX													
HLBJ						X				X					X	X	X															
HLW		XX			X	XX																										

[illegible]

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
KTK1		X				X		X			X	XXX			X		X	XXX	X			X		XXXX	X	XX					XX	
KUMJ		XX					X	X		X			X		X			X	X	X		X	X	X		XX		X			X	
KUPT			X	XX	X	X	X					X	X	X	XX	X	X		XX					XXX	XX	X					X	
KUSJ	X	X	X	X	X					XX	XX	X	X		XX	X		X	X	X	X	X	X	X	X	X		X	XX	X	X	
KVN										XXX		X		X				X								XX	XX		X		X	
KVT		X	X		X	X	XXX	X		X	X	X		XX	X	X		X	X	X					XX	XX		XX	X	X	X	
KZN	X	X				X	XX	XX	XX	XXX	X	XXXXX	XXXX	XX			X	XXX							XX	XX		XX	X	X	X	
LACI						X	XX	X			X	X	X	X	X		X							X	X	X		XX	X	X	XX	
LAT	XXXX	XXX	XXXXXXX							XXXXX	XXXXX	X	XXXX	XXX	XXXX	X	X	XX	XX	X	X	XXXXXX	X	XXXXXXX	X	XXXX	XX	XXXXXX				XXXX
LBF	XXXXXXX		XX	X	XXXX	XXXXX	X	XX	XXXXX	XXXXX	X	XXXX	XXX	XXXX	X	X	XX	XX	X	X	XXXXXX	X	XXXXXXX	X	XXXX	XX	XXXXXX				XXXX	
LBFM	X		X			X	X		X	X	XXXX	X		XX	X	XX	X	XX	X	X		XX	XX	X	XXXXXX		X	X	X	X	XXX	
LBL		XXXX			XXXX				XX	X		XX	X		XX	X		X	X	X	X	X	X	X	X		X	X		X	X	
LCCH	X	X	X	XX	XX		X	X	X	X	XXXX		XXX			XX	XX				X		X	XX	XXX	X	XXX	X	X	X	X	
LCI	XX	XX	X	X	X		X		X	X	X	XXX	X	X	XX	X	XX	X	XX	X		X		X	X	XXX	X	XX	X	X	X	
LDF		XXXXXX	XXX		X	XX	X	XXX	XX	XXX	X	X	XXX	XX	XX	XX	XXXX	XX	XXX	X	XXXXXXX	XX	XXXXXX	X	XX	X	XXX	XXX	XX	XX	XX	
LFF		XXXXXX	XXX	X	XX	X	X	XXX	XX	X	X	XX	XX	XXX	XXX	XXX	XXX	XXX	X	X	XXX	X	XX	X	XXXX	XXX	X	X	XX	XXX	XX	
LHE		X	X	X				XXX	XX		XXX	XX	X	X	X	X	XX				X			X	X						X	
LHS	X					XXX	XX					X		XX	XXX			X		X					X	X		XX				
LIC	XXXXXX	X	X	XX	X	XXXXX	XXXX	XXX	XXXXXX	XX	XX	XX	XXXXX	XXX	XX	XX	XXX	X	X	XXXX	X	XXX	X	XXXX	XX	X	X	XXX	XX	XX	XXXX	
LIT	X	X		X	X	X	XX	XXX	XXX		XX	X	X	XXXXX	X	XX	X	XX	X					X	X	X	X	XX	X	X	XXXX	
LJO																															XXXX	
LJU		X	XX	X	X	X	XXX	X		X	XXXXXX	XXXXX	X	XX	X	XXXX	XXX	X	X	XX	X	X	X	X	XXXXXXX	X	X	X	X	X	X	
LKO		XX	XX	X	X	X	XXXXX	XXXXX	X	X	XXXXXX	XXXX	XXX	XXXX	XX	XX	XX	XXXX	X	XXXX	X	XX	XX	XX	XX	XXXXXXX	XX	X	XXX	XXXXXX	XXXXXX	
LLA					XXX	X	X	X	X		XXX	X	X	X	X	X	XX	XXX	X	XX	X		X	XX	X	XX	X	XX	X		X	
LLAV					X	XX				XX	X	XXXX	X	XX	X		X	X	X				X	X	XX		X					
LLS		X	XXX				X		XX	XX	X	X	XX	X	XX	X					X	X		XXXXXXX	X	X	X				XX	
LMR	XX	XXXX	X		X	XX	X	X	XX	XXX	X		XX	X	XXX	XX	XX	X	X	X	X	X	X	XX	X	XXXXXX	XX	XXXX	X	X	X	
LVN	X	X	X	XX	XXX	XX	X	XXXX	XX	XXXXXXX	X	XXX	X	XX	X	XXX	XXX	X	X		XXXX	X		X	XX	XXXX	X	XXXX	X	X	X	
LOE		X	X		XX	X			X	X	X	X	XX	X	X	X		X			X	XX	XX	X	X		X	X	XX	X	X	
LOF								X				XX			X					X	X		X	XXXX	X	X					XXX	
LOMF		XX		X	X		X		X	X	X	X	X	X	X	X		X	X	X	X	X		XXXX	XX						XX	
LON		X	X		X	XXXX	X		XXXX		X	X	X	XX	X	X	X		X	X		X	XX	XXXXXX	X	X	X		X			
LOR	X	XXXXXXXX	XX	X	XXXXXXXX	X	XXX	XXXX	XXXXX	XXXX	X	XXXX	XXXX	XXXXXXXXXX	X	XX	XXX	X	X	XXXXXXXX	XXXXXXXXXXXX	XX	XXXXXXXXXXXX	XX	XX	XXXXXXXX	XXXXX	XXXXX			XXXX	
LPB	XXXXXXXXXXXX	XXXXXX	XXXXXXXXXXXXXXXXXXXX							XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX										XXXXXXXXXXXX	XX	XXXXXXXXXXXXXXXXXXXX	XXX	XXXXXXXX	XX						XX	
LPF	XXXXXX	XXX	XX	X	XX	X	XXX	XXXX	XXXXX	X	XXX	XX	XXXX	XX	X	XXX	X	XXXXXXX	XXXXXXXX	XXXXXX	X	XXXXXXXXXX	XXXXXX	XX	XX	XXXX	XX	XXXX			XX	
LPG	XXXXXX	X	XX	XXXXXXXXXX		XX	XXX	X	XX	XX	X	XXXXX	X	XX	XX	XXX	X	XXXX	XXXX	XXXXXX	XXXX	XXXXXX	XXXXXX	XXXX	XXXXXX	XXXX	XXXX	XXXX			XX	
LPL	X	XXXX	X	XX	X	XXXXXXXXXX	XX	XXX	X	XX	X	XXXXX	X	XXXX	XXX	XX	XXX	X	XXXX	X	X	XXXXXXXXXX	XX	XX	XXXXXXXX	XX	XX				XX	
LPO	XXXXXX	XX	X	XX	X	X	XXX	XX	X	X	XX	X	XXX	X	XXX	XXX	X	X	XX	X	XX	X	XXXX	XXX	X	XXX	XX	XX	XX		XX	
LPR	X			X	X	X	XX	XXX	X	X					X	X	X	X			XXX		X	X		X	X	X			XX	
LRG	X	XXXX	X		X	XX	X	X	XX	XXX	X	X		XXX	X	XXX	XX	X	X		X	X	X	XX	X		XXXXXX	XX			X	
LRM	XXX	XX		X	XXX	X	XX	XXX	XXX	XXXX	X	X	XXX	X	X	XX	XXXX	X	X	X	XX	X	XXXX	XX	X	X	X	X	X	X	XX	
LSA	X	X			XXXXX	X	X	XXXX	XX	X	XXX	X	X	XXX	X	XX	X	XX	X													
LSD	XXX			X	X	X	X	XX	X	X		XX	XX	X	X	X				X	X	X		XX		X	X	X	X			
LSF	XXXXXX	XX		XXXXX	X		XX	XXXX	X	XX	X	XX	X		XXX	XXX	X	XX			XXX	XXX	X	XXXXXX	XX	X	XX	XXX			XXXX	
LSK								X	XXX	X	X		X	XX	X							X	X	X	X						X	
LTMT		XX		X		X	X																		X	X	X				X	
LTZ	X	XX	XX	X	X	X		X	XXX				XX	X		XX	XX	XXXX	X	XXX	XXXXXXXX	X	XXXXX		XX			X	XX	X	X	
LV1															X	X	X		X		X	1		X		X	X				X	
LVVM			XX	X	X			XX	X	XX	X	X	XXXX	X			XX	X	X	X					X		X	X	X		X	
LWI		XXX	X	X	X	XXX		X	X			X	X	X	XX	X	XX	X		XX	X		X	X	X	XX	XXX	X	XX		XX	
LZH	XXX	XXXXXXXXXXXX	XXXXXX	XXX	XX	X	XXXX	XXXXX	XXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	
MADF	X	X	X			X	XXX	XX	X	X	X	X		XX						X		X	X	X	X		X				X	
MAF	XXXXXXXXXX	XXX	X	XXXXX	X	XX	XXXX	XX	XX	X	XX	XXXX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XXXX	X	XXX	X	XX	XXXX	XXXX		
MA10	XXXXXX	XXXXX	XXXXXXXXXXXX	XXXXX	XXXXXX	XXX	XXXXX	XXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXX	X	XXXXXX	X	XXXX	XXXX	XXXXXX	XXXX	XXXXXX	XX	XX	XX	XXXXXX	XXXX	XXXX			XXXX	
MAL	X	X	X	X	X	X	XXX																X	XX	XXX	X		X			X	
MAT	XXXXXXXXXX		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX							XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX													XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	
MAW	XXX	XXX	X	XXX	XXX	XXX	XXX	X	X	XXXXX	X	XX	X	XX	XX	XXX	X	X	XXX	XXX	X	XXX	X	XX	XX	X	XX	XX	X	XXX	XXXX	
MCB	XXXXXXXX	XXXXX	X	XXXX	XXX	X	XX	XXXX	XXX	XXXX	XX	XXX	XX	XXX	X	XX	XXX	X	X	XXXXXX	XX	XXXXXX	X	XXX	XXX	X	XXX	XX	XXX		XXX	
MBH		X	XX	XX	XXX	X	XX	XXX	X	X	XX	X	X	X	X	X	X			X	X	X	X	XXXX	XXXX	X	XX	X			X	
MBL	X	X	XXX	XXXX	XXXXXXXX	X	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXX	X	XXXXXX				XXXX	XX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXX	XX	XX	XXX	XXXX					
MBU		X	X	X	XX		X		X	X			XX	X					XX		X	X	X	X	X		X				X	
MCK	X	X	XX	X		X	X	X	XXX	X	X	X		XX				X	XX	XX	XXX	X	X	XX	X	X		X			X	
MCMT		XX			X		X					X					XX					X	X	X	X		X				X	
MCNL		X			X	X	X	X		XX		X		X	X		XX	X	X	XX	X	X	XX	XX	XXX	XXX	X		XX	XX	X	
MCO			X	X		X	X		X	X	XX	X					X					X		X	X	XXX	X	X			X	
MCT					X	XX	X								X										X						X	
MCW		X	X					X						X									X	X	XX						X	
MD1	X	X	X		X		X	XX	X	X	XX	X	X	XXX	XX	X	XX	X	X	X	X	X	X	X	XXX	XX	XX	X	X		X	
MDJ	XXX	XX		XX	X	XXX	X	X	XXXX		XX	X	XXXX	XX	XXX	X	X	X	XX													
MDSJ										XX		X	X	X	X	X	X		X										X			
MDZ	X	XXX	X	XX	X	XX	XXXXX	XXXXXXXXXXXX	XXXXXX	XXXXXX	X	XX	XX	XXX	XXXXX	XXXXXX	XXXXXX	X	X	XXXX	XX	X	X	XXX		X	X	X	X		X	
MEKA	XX				X	X		XX	XX	XXX		X	XX	X		X	X	X	XXX	X		XXX	X		XXXX	X	XX	XX	X		X	
MEM	X	XXXXXX												XX	XX	X	XXX	X	X	XXXX</												

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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			
RDT	X	XXXXX	XX		X	X	X	X	XX	XX	XXX			XXXXX		XX	X	X	XX	XXXX	X	XXX	X	XXX	XXXXXXXXXX	X	X	X	XX	X	XX	X		
RED											XXX			XX	X		XX	X	X	XX	XXXX	X	XXX	X	XXX	XXXXXX	X	X	X	XX	XX	XX	X	
REV		X				X			X	X	XX					X	XXX	X					X		XX	X		XX	X				XXX	
REY											X						X																	
RGS									X		X	X	X			X	X	X							XXXX									
RIV		X		X			X	X		XX		X				X		X								X								
RIY		X	X	X		X			XX	XXX	XX			X	X	X	XX	X		XX		X						X						
RJF		XXXXXX	XXXX	X	XX	X	X	XX	X	XXX	XX	X	X	X	X	XXX	X	XXX	X		X	X	X	XX	X	XXXXX	XXX	X	X	XX	XXX	X	XXXXXX	
RKC		X	X				X	X		X	X	X	X	XX	XXX	X	X	X		X		X	X	X	X	XXX					X	X		
RKT				X						XX	X		X	XX			X	XX				XX	X	X	X	X								
RMN		X			XX		X	X		X	X					X	X	X		XX	X			X	X	XXX		X	X	X	X			
RMP	X	X	X	XX	X	X	X	X		X	X			XX	X	X	XX	XX	XX		XXX	XXX	X		XXX	XX		X	X	X				
RMO		XXXXXX		X	X		XXXX	XXXX	XXX	XX	X	X	XX	XX	X	XX	XX	XX	X	X	X	X	X	XXX	XXXXXXXXXX		X	XX	XX	XX	X	X		
RMW		X		X			XXX	X	X	XX			X				X	X						X	X	XXX	X							
RND	X	X	XXX	XX		X		X	XXX	XX	XX			XXXX			X	XX	XX	X	XXX	X	X	XX	X	X	X	X	X	XX	XX	X	X	
ROB		XXX	X	X		X	X	X	XX	XXXX	XX	X		XX	XX	X	X	XX			X	X	X	X	XX	X	XX	XXXX	XX					
ROCH	X	X	X	XX	XX		XX	XX	X	XX		XXX		X	X	XX	XX						X	X		XX	XXX	XXX	X	X	X	X		
ROI	X	XXX	X	X	X	XX		X		XXX	XXX	X		X	X	XX	X	XX	XXX	X					XXX	X	XXX	X	XXX	X				
RRL		XXX			X	X	X	X		XX	X	X	X	XX	XX	X	X	X				X	X	X		XX	XX	X	X	X				
RSCP												X			XX		XX	XX		X					XX	XX		X	X					
RSM		X	X				X			X				X	X	X	X	X						X	X	XX		XX						
RSNY										X	X	X			XX	X							X	XX	XX									
RSO	X	X	XX	XX		X	X	X	X	XX	XX	XXX	X		XX	X		XX	XX	X	XX	XXXX	X	XXX	X	XXX	XXXXXX	X	X	X	XX	XX	XX	X
RSP		XXX			X	X	X		X	XX	X	X		XX	XX		X	X					X	X	X		X	X	X	X				
RSSD	X		XX	X		XXXX		X		XXX	X	X																						
RTBS	X	X	X	X	XXXXX	X		X	XX	X	XXXXXX	XXXXXX	X	XX	XX	X		XX		XX	XXX	X	XXX	XXX		XX	X			X	X	XXXX		
RTCB		X	X	X	XXXXX	X		XXXX	X	XXX	XX	XX	XX	XX	XX	XX	XX	X	XXX	XXX	X	XXX	XXX	X	XXX	XX	XXX		XXXX	X	X	XXXX		
RTCV	X	X	X	X	XXXXX	X		XXXXX	X	XXXXXX	XXXXXX	XXXX	XX	XX	XX	XX	X	X	XXX	X	XXX	XXX	XXX		XX	XXX		XXX	XX	XXX	X	XXXX		
RTLL	X	X	X	XXXXXX	X		XXXXX	X	XXXXXX	XXXXXX	XXXXXX	X	XX	XX	XXX	XXX	XXX	X	XXX	XXX	X	XXX	XXX	X	XXX	XX	XXX		XXXX	X	X	XXXX		
RTRS	X	X	XX	XX	X		XXXXX	X	XXX	XX	X	XXXXX	X	XX	XX	XX	X	XX	X	XXX	X	X	XX	XXX	X	X	XX	XXX		XX	X	XXX		
RUV		X	X			X				XX	X	X	X	XXX		X	X				X	XX	X	XX	X	XX		X	X					
RVC		X		X		X		X		X						X		X	X															
RVR		X	XX	X		XX	X	XXX	X		XXX	X	X	XX	XX	XXX	X	X	XX		X		X	XX	XXXX	X	X	X		X	X			
RYD		X					X	X		X		XX	X	X	X	X	X			X	X	X			XXXXXX		X							
RZN			XX	X	X	XX	XX	XXX	XX	XX		XXX	X	XX	X	XX		X						XXXXXXXXXX	XX	X		XXX	X	XX				
SAL		X	X							XX	XX	X		X	X	X								XX	XXXX									
SAN	X	X				X	X	X	XXX	XX	XXX		XXX			XX	XX	X					XXXX		X	XX	XX		XXX	XX				
SAO			XX		X	X	X	X	XX	XXXX	X	X	X	X	X	X	X		XXX	X	XX	X	XX	XXXX	X	XX	X	X	XX					
SAX		XXX								XX	XX		X	XX	X	X	X						X	X	X	XXXXXXXX		X	X					
SBA		XX	XX	X	X		XX	X	X	X	XXX		XX	XX	XX		X	X	X				XX	X	X	X	XXX	X	X	X	XX	X	XX	
SBF		XX	XX		X		XX	X	XXX	X	X	XXXX	X	X	XX	XXX	X	X	XX	XX	X		X	XX	XXXX	XX	XXX	X	XX	X	X			
SCH		X	XXXXX	X	X	X	XX	XX	XXXX	XX	XXX	X	XX	XXX	X	XXXXXX	XXXX	X	X	X	X	X	X	XX	XXXX	X	XXXX	XX	XXXX	XX				
SCM		X	X	XX	XX		X	X	X	XX	XXX		XXX				X	XX	XXX	XXX	X	X	XX	XXXX	X	X	X		X	X	X			
SCX		X	XXX		X	X	X	X	X		X	XX	X	XXX	X	XX	X		X		X	XX	X	X	X	X	X	X	XX	X				
SDA																																		
SDG					X		X	X	XXX	X	XX	X		XXX			X	XX		X	X	XXX	X	XX	X	XX	X	X		X	X			
SDI	XXXXXXXX	X		XX	XX	X		XX		XXX	XXXX	X	X	XX	X	X	X	X	X	XXX	XXXX		XX	XX	XXXXXXXX	XXXX	XX	XXXX	XX	XXX				
SDN										X		X	X			XX	X						XX	X	X	X	XXX							
SDV							X			X	X	X		X		X	X	X	X	X				X	X	X		X	X					
SEG		X	X		X		X	X	XX	X				X		X	X					X	X	X	X	XX	X	XX	X	X				
SES		X	X			XXXXXXXX	XXX	X		XXX	XXX	XX	XX	XX	XXX	X	X	XX	X	X	X	X	X	XXXX	XXXXXX		X	XX	XX	X	X			
SEW		X	X	X	XX		X	X	XX	XX	XXXX			XXXX		X	X	XX	XXXX	X	XXX	X	XXX	X	XXXXXX	XXXXXX	X	X	X	XX	XX	XX	X	
SFG			X				X	XX		X							X	X					X	X	X		X	X						
SFI	XX	XXXX	X	XX	X	X	X	X	X	XXXX	XXX	X		XXXX	X	X	X	X	X	X	X	X	X	XXXX	X	XXXX	X	XX	X	XXX	X	X		
SGE		X	XX	X	X		X		X		X			XX	XX	X				XX		X	XX	X	X	XX	X	X	X	X				
SGO		XXXXX		XX	X	XXXXXXXX	X	XX		XXX	XXX	X	X	XXXX		X	XXX	XXXXXX	X	X	XX	XXX	X	XXXXXX	X	XXX	XXXX	XX	XXXX	XX	X			
SGS					X	XX				X	X						XX	X																
SHK								X	XXX	X	X			X	X	X									XX	X								
SHL									XX	XXXX	X		XXX	X	X	XXXX	X								XXXX	X		XX						
SHMJ				X		X				XX			XX	X	X	X	XX	X	X						X	X	X		X	X				
SHNJ			X							X						X	X							X	X	XX		X						
SIO	XX	X		X		XXX	XX	X	X		XX	X	X	X	X	XX	X	X	XXX	XX		X	X	X	XX	XX	X	X	X	XX	X			
SIT		X		X						X	X					X	X							XX	X									
SIV	XXXX	XX	XXXXXX			XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
SJG		X			X	X		XX		XXX	X	X					X							X	X	X	X	X	X					
SKO	XXXX	XX	XX	XXX	X	X	XXXXXXXXXX	XX	XXXX	XXXX	XXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXX	XX	XXXXXX	X	XXX	X	XXXX	X	XXXX	XXXXXXXXXX	X	XX	XXXX	XXXX	XX				
SKT		X	XXXX	XX		X	X	X	XXX	XXXX			XXXX			X	X	X	XX	XXXX	X	XXX	X	X	XXXX	X	X	X	XXXX	XX	X			
SLB		XX	X			XX				XXX	X			X	XX																			
SLE		XXXX						X		XX	XX	X	X	XX	X		X	X	X					X	X	X	X	XXXX	XXX	X				
SLKM		X	XXXX	XX		X	X	X	XX	XX	XXX		X	XXXX								X	XXX	X	X	XXX	XXXXXXXX		X	XX	XX	XX	X	
SLL		X				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		
SOB1	X	XX	XX	XXXX	X	XXX	XXX	XX	XX	X	XXXXXX	X	XXXXXX	XXX	XXX	XXXXXX	XXXXXX	XX	XX	X	XX	XXXX	XXXXXXXXXX	XX	X	X	XXX	XXXXXX	X	XX	XX		
SOD	XXXX	XXXX	XXX	XXXXXXXX	XX	X	XX	X	XX	XX	XXXX	XXX	XXX	XXXX	XX	X	XX	XX	X	X	X	X	X	XXXXXX	XXX	XXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX		
SOH	X		X	X				XXX	XXX			XX	X	XXXXXX		XX	X	X	XX	X	X				X	X	X	X	XX	XXX	XXX	X	
SOI	X	XXX	XX	X	X	XX	XXXX	XX																									
SOP		X		X				X	XX		XX	X	X	XX	XX	X					X	X	X										
SPA	XXXXX	X	X		XXXX	XXX	XX	XXX	XXXX	XXX	XXXX	X	XX	XX	X	XXX	X	XX	XXXX	XX	X	XX	XXXXXX	XXXXXX		X	XXX	XXXXXXXXXXXX					
SPC	XXX	XXXXXXXXXX	XXX	XXXXXX	X	X	X	XXXX	XXXXXX	X	XXXXXX	XXXXXX	X	XXXXXX	XX	XXX	X	XX	XXXX	X	XX	XXXX	X	XXXX		XX	X					XX	
SPU	X	XXXXXX	XX	X	X	X	X	XXX	XX	XXXX		X	XXXXXX								X	XXX	X	X	XX	XX	XX	XX	X	X	XX	XX	
SQTA	XXXXXX	XXXXXX	X	XXXX	X	XX	XXX			XXX	X	X	XX	XX	X	X	XX	X	X	XX	XX	XX	XX	XXXXXX	XXXXXX	XX	X	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
SRN						X	X	X	X					X	XX	XX									X	X	X	X			XX	XX	X
SRO	X	X	X	XXXX	XX	XXXX		XX	XXXXXX	XX	X	X	XX	XX	XX	X			X	X	XX	XXXX	XXXXXX	XXXXXX	X	X	X	X	X	X	X	XX	
SRS		XX	X		XX	XX	XXX	XXX		XX	X	X	XXXXXX	XX	X	X	XX	X	X					X	X	X	X	XX	XX	XX	XX	X	
SSE	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXX	XX	XXXXXX	XX																												
SSF	XXXXXXXXXX	XX	X	XXXXXXXXXXXX	X	XX	XXXXXX	XXXXXX	X	X	XXXXXXXXXXXXXXXXXXXX	XX	XX	X	X	XXXXXX	X	XXXXXX	X	XXXXXX	XXXXXX	XX	X	XXXXXX	XXXXXX	XX	X	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
STK	XXXXXXXXXXXX	XXXXXX	XXX	X	X	XXXXXXXXXXXXXXXXXXXX	XX	X	XXXXXX	XXXXXX	XX	X	XXXX	X	XXXX	X	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
STV	X	XXX	X	X	X	X	X	XX	XX	X	XX	X	XX	XX	X	XX					X	X	X	X	XX	X	XX	XXXX	XX			X	
SUA	X	XXXXXX	XX	X		X	X	XX	XX	XX	X		XXXX		X	X	XX	XXXX	X	XX	XXXX	X	XX	XXXXXX	X	X	XX	XX	X	X	XX	X	
SUE	X		X	X		XX	X	XX		XX		X	X		X	X	X	X			X		X	XXXX	XX		X	XX	X			X	
SUF	XXXXXXXX	X		XXXXXXXXXX	XX	X	XX	XXX	X	XXXX	XX	X	X	X	X	X	X	X	X	X	X	X	X	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
SVA	XX	XX	X	X		X	X		X			XX										X	X	X	X		X	X				X	
SVB		XX	X	X		XX		XXX	X		X	XX																					
SVO		XX	X	XX	XXXX	XXXXXX	X	XX	XX		XX	XX	X	XX	X	XX						XXXXXX	X	X	XX	XX							
SVV		XX	X	X		XX		XXX	X		X	XX																					
SVW	XXX	XXX	XX	X	X	X	XX	XXX	X	X	XX	X	X	X	XXXX	X	XXX	XX	X	XX	X	XX	XX	XX	XXXXXX	XX		XX	X	X	X	XXX	
SXM		XX		X		X	X				X															X	X	X				X	
SYF		XX			X	XX	X		XX	X	X	X	X	XXXX	X	X						X	X	XX	X	X	X						
TAB	XXXXXXXXXX	X	X	XX	XX	XXXXXX	XXXX	X	XXXX	XXXX	XXXX	X	XX	XX	XX	XX	XX	XXXX	X	XXXXXX	X	XXXX	XX	X	X	XXXXXX	XXXX	X	X	X	X	XXXX	
TACH	X	XX	XXX	XX	X	X	X	XXXXXX			XXXXXX										X	X		X	XXXX	X	X	XXXX	X	XXXX	X	XXXX	
TBR											XXX	X																					
TCF	X	XXXXXXXX	XX	XXXX	X	XX	XX	XXXX	XX	XX	X	XXXX	XX	XX	XXXX	XXXX	XXXX	XXXX	X	XX	X	XXXX	XXXX	X	XXXXXX	X	XXXX	X	XXXX	X	XXXX	XXXX	
TCW		XX	XX		X	XX	X		X	X		XX	XX		XX	X					XXXX	X	X	XXXX	X	X	XXXX					XX	
TDS	X	X	XX	X	XX	X		XX	XX		XX	XX	X	X	X	XX	X	XXXXXX	XXXX	X	X		XXXXXX	X	XXXX	XXXX	XXXXXX	X	X			X	
TEH		X	XX	X	X		XXXXXX	X	X	XXXX	XXXX	X	X								XX	XXXX	X	XX	XXXX	X					X	X	
TGL	X	X	X	X	X		X	X	XXX			XXXX									X	X	X	X	X	X	X	X	X	X	X	X	
THE	X		X	X	X	XX	XXX	XXX		XX	X	XXXXXX	XX								X					X	X	X	X			X	
THZ	X	X	X	X	X	XX	X	X	XX	XXX	X		XX	X		XX	X			XXXXXX	X	XX	X	X	XXXX	X	XX			X	XX		
TIA	X	XX			X			XXXX	XXXX	X	X	X	X	X	X	X	X				X	XX	XX										
TIC	XXXXXX	X	X	X	X	XXXX	XX	X	XXXX	XXXXXX	XX	XX	XXXX	XX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	X	XXXX	X	XXXX	XXXX	XXXX	X	XXXX	X	XXXX	X	XXXX	
TIO										XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	X	XX	XXXX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
TIR						X	XX	X		X	XXXX	X	X	X	X	X	XX						X	X	X	X	X			X	XX	XX	XX
TIY	XXX	XX	X	XX	XX	XXXXXX	XXX	X	XXX	XXXX	X	XXX	X	XXXXXX	XX	XXXXXX	X	X	X	XX	XX												
TKL	X			X	X	XX	X	X	X	X	X				X	X	XX	X	X	X	X	X			XX	XXX		X				X	
TKSJ		X		X		XX			X	X					X	X	X	X	X	X	X				XX	XX		XX	XX	X	X	X	
TLB		XX	X	X	X	XX	XXX	X				X	X	X	X	X	X	XXXX						XX	X	XX		X				X	
TMA		XXXXX				X		XX	XX	X	X	XX	X	X	X	X	X					X	X	XXXXXX	X	X	X	X				XX	
TMW	X	X						X													X	X		X	X	X	X					X	
TNP	X	X	XX	X	XXXXXXXXXXXX	XXXX	XXX	XXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
TNR		X	X		X	X	X	XX	XX	X	XX	XX	X	X	X	X	X					X	XXXX			XXXX						X	
TNS		XX		XX	X	X		X	XX	XX	X	XX	XX	X	XX	X					XX	X			XXX	X						XXXXXX	
TOA	X	XXXXX	XX	X	X	X	XXX	XXX	XXXX	X	X	XXXX	X	X	XXXX	X	XXXX	XXXX	XXXX	XXXX	XXXX	X	XXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
TOL	X	XX	XX		XX	X	XXXXXX	X		XXX	XXX	X	X	X	XXXX	XX	X	XX				X	XXXXXX	XX	X	X	XX	X	XX	X	XX	XX	
TOO	XX	X	X	X	X		X		X													X	XX	XX	XX	X	X	X	XX	X			
TOUF		X			X	X		X	X	XX	X	X		XX	XXX	X						X	XX	XX	X	XX	X						
TOV				X	XX	X		X	X	XX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	XX	XX	X	XX	X				
TPC	XX	XX	X		XX	X	XXX	X	XXXX	X	X	XX	XX	XXXX	X	X	XX	X	X	X	X	XX	X	XX	X	XX	X	XX	X			X	
TPE					X	X	X		X					X	XX	XX						X	X	X	X	X	XX	XX					
TPT		X						XX	X	X	XXXX				X	X					X	XX	X	X	X	XXX		X				X	
TPX		X		X	X	X	X	X	XX	X	XXX	XX	X								X	X		X	X	X	XX	XX				X	
TRI	X	XX	XX	XXX	XX	XX	X	X	X	X	XXXX	XXXX	X	XX	XX	XXXX	XX	X	XX	X	XXXX	X	X	XXXX	XXXX	XXXX	XXXX	XXXX	X	X	XX	XX	XXXX
TRN	X	X					X	X		XX	X				X	X	X	X	X				X									X	
TRO			X	X	X	X		X	X	XXX				X	X						X	X			XXX	X						XX	
TRT	XX	XX	X	XXX	XX	XX	XX	XXXXXX		XXX	XXXX	XXXXXX	XXXX	X	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
TSRJ		XX	X	X	XXX			X		X				X	X	X	X	X	X	X	X	X	X	XXXX	XXXX		X	X				X	
TTA	XXX	XXX	XX	X	X	XX	XX	XXX	XX	X	X	X	XXXX	XX	X	XXXX	X	XXXX	X	XXXX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
TTG	X	X	X	X	X	X	XXX	X		XXX	X	X	XX	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	
TUL	XXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	
TUNG		X			X					XX			X	X	X	X					X	X	X	X	XX	X	X	X	X			X	
TVO		X			X					XX			X	XX							X	X	X	X	XX							X	
TWC				X	X					X			X	X							X	X	X	XXX			X						

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AAE	ACI	ACO	ACTN	ACU	ADH	AFAR	AGAL	AGX	AHA	AIN	ALJ	ALM	ALPW	AMAN	ANGL	ANGW	ANMR
ANTO	APA	APM	APW	ARO	ATZ	AWKL	BAC	BBD	BCPM	BDF	BERF	BFT	BGIO	BGM	BIM	BIX	BKB2
BKR	BLE	BLF	BLH	BLN	BLS3	BMNM	BMS	BNM	BOT	BPI	BPIL	BRD	BRN	BRT	BRVW	BRW	BRTG
BVD	BYW	BWD	CALA	CBN	CBSW	CBTI	CBX	CCMO	CCW	CDR	CEI	CFTV	CGL	CGX	CHIE	CHOI	CIS
C1W	CKO	CLN4	CLNB	CMW	CNZ	COL	COLM	COLW	COP	COR	CPB	CPBX	CPE	CPH	CPJ	CPK	CPW
CRF	CRM	CRNM	CROR	CRZF	CSIL	CTAO	CTFE	CVA	CVT	DAF	DAH	DAV	DBN	DBO	DES	DMH	DHJN
DHW2	DLA	DON	DPO	DRTN	DRZ	DSH	DWM	EAB	EALH	EAU	EBG	EBH	EBL	ECBX	ECO	EDI	EDR
EDU	EEO	ELF	ELO	EMEL	EMX	ENX	ENP	ERK	ESD	ESK	ESR	ESY	ET3	ETW	EZAM	FAM	
FCC	FL2	FLR	FMA	FOO	FRS	FRU	GANF	GBL	GBR	GELF	GGC	GHW	GIBL	GL2	GLH	GMD	GMTN
GOIL	GRAI	GRC1	GRC2	GRC4	GRFO	GRI	GRN	GROR	GRO	GRT	GSH	GSM	GT2	GTD	GUAN	GULW	HATZ
HAY	HBF	HBH	HBO	HDW	HIA	HIL	HIN	HITZ	HKC	HKL	HLD	HLP	HMH	HMT	HOR	HPU	HON
HRV	HSR	HTC	HTW	HUA	HUL	HUTZ	IIA	IKP	ILT	IMW	IRK	ITU	JAO	JBO	JCW	JGI	JKL
JOZ	JRSJ	KAE	KAI	KAIM	KBA	KBR	KETZ	KFH	KFNJ	KHU	KIH	KIP	KIS	KKH	KKU	KLL	KLM
KMOR	KMR	KNH	KOE	KONO	KOSW	KPO	KRO	KSR	KSU	KTD	KUH	LAV	LAZ	LCL	LDMO	LDN	LFU
LIJA	LIS	LISJ	LMW	LMX	LNOR	LOCW	LPA	LPI	LPM	LRDO	LRS	LTCM	LTX	LVNJ	LVP	LVV	MAJO
MAO	MASJ	MBO	MBW	MBZ	MCO	MCP	MD2	MD3	MDW	MEP	MEW	MEX	MGP	MHA	MHI	MILT	MIM
MJ2	MKA	MKL	MKRJ	MLH	MLX	MNA	MNT	MOH	MOO	MOOW	MOT	MPOR	MSI	MSL	MSU	MTMW	
MUDI	MVH	MWH	MXC	NAC	NAO	NBO	NDE	NED	NGH	NGZ	NHIL	NKM	NLO	NLW	NOH	NPH	NSC
NWRM	OBH	QBN	OBO	OD2	OHW	OJEN	ONR	OOW	OPA	OSD	OT2	OTT	OUT	PACW	PAF	PAIG	PAT
PATW	PBX	PCA	PCF	PCM	PEM	PET	PFF	PGO	PGW	PICO	PIG	PINI	PKL	PLAT	PLBC	PLH	PLL
PNL	POF	PDH	PPK	PPL	PRAF	PRW	PRY	PT06	PT08	PT10	PTS	PUH	PUK	PUL	PUYF	PV01	PV02
PV03	PV04	PV05	PV06	PV07	PV08	PV10	PVPS	PWH	PWLA	PZI	QCP	QTFJ	QTRJ	QUA	QZA	RAGM	RAMW
RAR	RATZ	RBL	RC1	RDX	REDW	REMR	REMW	RFI	RIM	ROSA	RPW	RRO	RSW	RUP	RUWJ	RWV	RW1

