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

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

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

Hypocenter Symbols

& Indicates that parameters of the hypocenter were supplied or determined by a computational procedure not normally used by the National Earthquake Information Service (NEIS). The source or nature of the determination is indicated by a 2 to 5 letter code enclosed by angle brackets and appearing in the first line of comments. A "-P" appended to the code indicates that the computation is preliminary. These codes are included with the list of abbreviations in the PDE Monthly Listing.

% Indicates a single network solution. A non-furnished hypocenter has been computed using data reported by a single network of stations for which the date and/or origin time cannot be confirmed from seismograms available to a NEIS analyst. Also, if we define η to be the geometric mean of the semi-major and semi-minor axes of the horizontal 90% confidence ellipse, then $\eta \leq 16.0$ km.

* Indicates a less reliable solution. In general, $8.5 < \eta \leq 16.0$ km.

? Indicates a poor solution, published for completeness of the catalog. In general, $\eta > 16.0$ km. This includes poor solutions computed using data reported by a single network.

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

Note: On printers available to the NEIS for this publication, the symbol for degrees ($^{\circ}$) appears as "°". Also note that certain phase codes are abbreviated because the data base and file format limit the length of the codes to five characters. Thus, PKP is occasionally abbreviated to P' and the numbers 2 and 3 are sometimes used to represent the AB (AC for SKKS) and BC branches of core phases, respectively. In some codes, R is used to represent repetition; for example, pRPKP represents the phase pPKPPKP and RRPg 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.
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JUN 01, 1990 01h 00m 35.76± 0.83s
2.107 N ±10.6km 97.308 E ±13.4km
DEPTH = 33.0km (normal)
4.8mb (6 abs.)

NORTHERN SUMATERA (706)

PPI 4.00 129 eP 01 34.00 -2.3
IPM 4.45 56 ePd 01 44.10 1.4
0.8s 207.90nm
e 03 45.50
KGM 6.01 91 eP 02 10.50 5.8X
CHG 16.68 5 eP 04 28.00 -0.8
CHTO 16.68 5 eP 04 28.20 -0.5
0.6s 1.26nm 3.2mb X
HYB 23.89 311 eP 05 51.00 3.4X
1.0s 230.00nm 5.7mb
BJI 41.46 22 eP 08 21.00 -0.1
0.8s 98.00nm 5.6mb
WB5 42.42 123 eP 08 29.80 0.5
WRA 42.43 123 P 08 33.00 3.6X
0.5s 3.10nm 4.3mb
FORR 43.97 141 eP 08 43.70 2.0
MAIO 48.75 319 eP 09 20.00 0.4
BCAO 78.65 274 ePd 12 37.00 0.1
1.6s 13.00nm 4.7mb
ic 13 51.00
SLL 85.21 330 ePKP 13 13.90 3.9X
0.7s 3.10nm 4.6mb
NB2 86.27 331 P 13 14.80 -0.5
1.0s 4.10nm 4.6mb
S.D. = 1.3 on 10 of 14 obs.

JUN 01, 1990 01h 22m 11.59± 0.11s
35.522 N ± 2.6km 140.339 E ± 2.6km
DEPTH = 67.0km (geophysicist)
5.7mb (92 abs.)

NEAR EAST COAST OF HONSHU, JAPAN(228)
Ms 5.8 (BRK), 5.7 (PAS). Felt
(IV JMA) at Choshi and and
Chiba; (III JMA) in the Tokyo-
Yokohama area, Utsunomya and
Mito (II JMA) at Kofu and
Fukushima; (I JMA) at Sendai.
Depth from broadband
displacement seismograms.

FAULT PLANE SOLUTION: P-Waves
NP1:Strike=323 Dip=72 Slip= 90
NP2: 143 18 90
Principal Axes:
T P1g=63 Azm=233
P 27 53

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. M
Energy 1.1±0.5*10**13 Nm

MOMENT TENSOR SOLUTION
Dep 56 No. of sta: 21
Moment Tensor: Scale 10**18 Nm
Mrr= 1.20 Mtt=-0.50
Mff=-0.70 Mrt=-0.91
Mrf= 1.44 Mtf= 0.59

Principal axes:
T Val= 2.09 P1g=62 Azm=242
N -0.01 4 145
P -2.08 27 53

Best Double Couple:Ma=2.1*10**18
NP1:Strike=134 Dip=18 Slip= 78
NP2: 326 72 94

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 34C

Centroid Location:
Origin Time 01:22:13.7 0.2
Lat 35.51N 0.03 Lon 140.70E 0.03
Dep 30.2 1.9 Half-duration 4.0

Moment Tensor: Scale 10**18 Nm
Mrr=-1.59 0.04 Mtt= 0.19 0.05
Mff=-1.78 0.06 Mrt=-0.63 0.09
Mrf= 1.98 0.15 Mtf=-0.66 0.05

Principal Axes:
T Val= 2.53 P1g=64 Azm=256
N 0.29 10 8

P -2.82 24 103
Best Double Couple:Mo=2.7*10**18
NP1:Strike=214 Dip=23 Slip= 118
NP2: 4 70 79

MAT 2.00 301 iPd 22 44.60 0.8
eS 23 13.00
SHK 6.36 263 iP 23 47.70 2.9X
0.8s 417.91nm 6.0mb
SAP 7.57 6 eP 23 59.00 -2.4
eS 25 19.00
MDJ 12.25 321 Pc 25 05.00 0.0
Z 25s 44.30um
N 12s 21.80um
epP 25 10.00
esP 25 20.00
S 27 25.00
sS 27 38.00
CN2 14.12 310 iPc 25 28.00 -1.6
1.0s 200.00nm 5.5mb
Z 22s 44.00um
N 13s 13.00um
E 11s 10.00um
PP 25 41.00
S 28 11.00
SNY 14.52 301 iPc 25 35.60 0.8
1.0s 400.00nm 5.7mb
Z 27s 57.10um
N 14s 15.50um
E 17s 21.90um
pP 25 40.00
PP 25 48.00
DL2 15.28 288 iPc 25 48.00 3.3X
Z 25s 57.20um
N 12s 13.50um
E 14s 20.70um
pP 26 01.00
SSE 16.60 260 iPc 26 02.00 0.6
2.0s 490.00nm 5.3mb
Z 20s 47.80um
sP 26 20.00
sS 29 24.00
NJ2 18.19 265 Pc 26 20.00 -0.9
8.0s 600.00nm 5.8mb X
Z 24s 18.90um
N 14s 18.40um
E 11s 7.70um
sP 26 37.00
TIA 18.82 279 Pc 26 27.00 -1.6
1.4s 400.00nm 5.5mb
N 15s 17.40um
E 15s 19.10um
ANP 19.20 243 iP 26 31.60 -1.4
iS 30 34.00
TATO 19.35 242 ePc 26 30.22 -4.2X
BJI 19.60 291 iPc 26 34.31 -2.7
8.0s 5190.00nm 5.9mb X
N 17s 21.40um
epPd 26 49.54 78kmX
QZH 21.50 247 iPc 26 54.50 -2.0
0.8s 200.00nm 5.5mb
Z 26s 38.90um 5.7mszX
N 15s 9.20um
E 15s 14.00um
sP 27 19.00
PJJ 22.22 168 eP 27 03.30 -0.4
GUMO 22.22 168 eP 27 03.00 -0.7
1.2s 2138.89nm 6.5mb
GUA 22.27 168 eP 27 03.50 -0.8
1.3s 2538.46nm 6.5mb
pP 27 10.70 26kmX
eS 31 02.50
WHN 22.32 265 Pc 27 04.50 -0.1
7.0s 4300.00nm 6.0mb X
Z 24s 24.50um 5.5mszX
E 16s 35.60um
sP 27 23.00
S 31 01.00
TIY 22.47 284 Pc 27 04.50 -1.7
Z 24s 47.60um 5.8mszX
N 13s 14.10um
E 17s 25.90um
sS 31 29.00
HHC 23.18 292 Pc 27 10.50 -2.6
Z 29s 31.10um 5.6mszX
N 12s 8.30um
E 11s 7.00um

BTO 24.34 291 P 27 22.00 -2.3
N 15s 14.00um
E 13s 9.00um
sP 27 41.00
PP 28 02.00
S 31 42.00
XAN 25.79 276 iP 27 37.50 -0.5
7.0s 4200.00nm 6.1mb X
N 18s 26.20um
E 20s 32.50um
S 32 02.00
BAG 25.94 228 eP 27 36.00 -3.6X
HKC 26.33 247 iP 27 44.00 1.1
GZH 26.51 249 Pc 27 45.00 0.4
Z 19s 31.20um 5.9msz
N 17s 18.80um
E 17s 25.30um
S 32 15.00
OCP 27.05 225 eP 27 47.80 -1.7
LZH 29.50 282 iPc 28 10.89 -0.8
1.6s 580.00nm 6.0mb
Z 25s 44.50um 6.0mszX
E 16s 17.40um
ipPd 28 26.94 67kmX
PP 29 12.00
PcP 31 17.30
S 32 59.00
GYA 30.13 262 iPc 28 16.60 -0.7
1.0s 100.00nm 5.5mb
N 13s 9.20um
E 13s 8.00um
PP 29 16.00
S 33 08.00
CD2 30.83 272 P 28 22.20 -1.2
0.8s 100.00nm 5.6mb
Z 18s 21.50um 5.8msz
N 15s 38.60um
pP 28 38.00 65kmX
PP 29 27.50
sS 33 52.60
DAV 31.38 209 eP 28 25.00 -3.2X
OIZ 31.52 247 Pc 28 28.50 -1.0
N 15s 12.20um
E 14s 6.20um
GTA 32.21 289 P 28 34.40 -1.1
8.0s 2300.00nm 6.1mb X
Z 30s 41.50um 5.9mszX
E 20s 19.40um
pP 28 50.00 64kmX
PP 29 42.00
S 33 42.00
sS 34 04.00
KMI 33.89 263 iPc 28 49.21 -1.1
2.0s 400.00nm 6.0mb
Z 24s 28.10um 5.9mszX
ipPd 29 06.43 71kmX
iPP 30 05.80
iHPP 30 06.63
ePcP 31 22.77
eS 34 13.00
ADK 34.53 48 e(P) 28 53.40 -1.8
KKM 36.78 223 eP 29 13.50 -1.2
TSM 37.33 219 eP 29 18.50 -0.6
LOE 38.69 252 eP 29 30.00 -0.6
CHG 40.09 257 eP 29 42.90 0.7
1.1s 51.90nm 5.3mb
eS 36 24.00
CHTO 40.09 257 iPc 29 41.84 -0.4
ipPd 29 58.89 69kmX
eHPP 31 16.08
ePP 31 17.46
WMO 40.77 298 iPc 29 48.72 1.1
7.0s 5500.00nm 6.5mb X
Z 25s 18.00um 5.8mszX
N 15s 8.00um
ipPd 30 04.94 64kmX
ePcP 31 43.49
BDT 40.91 255 eP 29 50.20 1.3
1.0s 172.50nm 5.8mb
NST 40.94 252 eP 29 49.20 0.1
LSA 41.50 276 P 29 56.50 2.3
5.0s 2100.00nm 6.2mb X
Z 17s 8.70um 5.7mszX
N 14s 2.20um
E 17s 3.90um
pP 30 12.00 61kmX
sP 30 18.00

01d		01h													
NNT	43.12	248	eP	30	09.30	2.3									
SDN	44.47	44	eP	30	15.20	-2.3									
PMG	45.15	170	eP	30	23.50	0.2									
SNG	46.02	242	ePc	30	27.50	-2.8									
	0.7s														
		84.93nm													
			eS	37	14.00										
TTA	47.16	34	eP	30	38.80	0.0									
IPM	47.54	239	ePd	30	43.70	1.4									
	1.1s														
		115.30nm													
			e	31	16.00										
KGM	47.85	234	ePd	30	45.90	1.3									
HNR	48.39	154	eP	30	49.00	0.2									
IMA	48.43	30	eP	30	47.80	-0.9									
	1.3s														
		89.60nm													
KSH	50.25	295	P	31	04.00	0.9									
Z	25s														
		19.90um													
E	13s														
		7.20um													
TRT	50.30	217	ePd	30	59.00	-4.4X									
PMR	50.36	36	eP	31	02.30	-1.0									
	1.3s														
		226.40nm													
FBA	50.84	32	eP	31	06.00	-1.0									
PPI	51.62	235	eP	31	15.00	1.5									
TOA	51.72	35	eP	31	13.90	0.1									
KNA	52.16	194	eP	31	16.30	-1.1									
HON	55.23	87	P	31	50.00	9.8X									
Z	22s														
		4.72um													
WB5	55.39	187	iPc	31	39.70	-1.4									
			e	39	19.30										
			eS	39	26.10										
WRA	55.45	187	Pc	31	42.20	0.6									
	1.2s														
		221.40nm													
CTA	55.59	173	iPc+	31	41.10	-1.4									
	1.4s														
		139.53nm													
CTAO	55.59	173	iPc	31	40.75	-1.8									
			ePcP	32	43.44										
QIS	55.77	181	eP	31	42.00	-1.9									
			e	31	47.00										
INK	56.13	27	ePc	31	43.60	-2.3									
	0.9s														
		60.00nm													
SIT	58.10	40	eP	32	00.20	0.2									
MBC	58.22	16	eP	31	59.00	-1.6									
	1.0s														
		72.00nm													
POO	60.56	273	iPc	32	15.80	-1.8									
QUE	60.57	288	iPc+	32	17.50	-0.2									
			eS	40	27.00										
QLP	61.88	176	eP	32	26.00	-0.1									
KBS	62.00	350	iPc	32	25.40	-1.1									
RMO	62.19	171	iPc	32	27.60	-0.6									
	1.1s														
		134.00nm													
NANU	62.37	206	eP	32	29.50	0.1									
DZM	62.39	153	iPc	32	30.70	1.0									
WARB	62.72	194	iPc	32	31.70	-0.1									
MAIO	63.53	297	iPc+	32	37.80	0.6									
	0.9s														
		19.18nm													
			eS	41	04.00										
BRS	63.67	168	iP	32	37.50	-0.5									
			i	32	43.00										
			eS	41	13.00										
KEV	64.55	339	ePc	32	41.76	-1.5									
	0.8s														
		55.70nm													
			iPd	32	57.98	60kmX									
			eHPP	35	02.19										
			ePP	35	02.74										
			iS	41	17.81										
			esS	41	36.35										
MEKA	65.15	201	eP	32	47.40	-0.2									
YKA	65.55	30	eP	32	48.20	-1.6									
	1.1s														
		37.50nm													
SOD	66.02	337	iP	32	51.60	-1.1									
KTK1	66.07	339	ePc	32	55.10	2.1									
COO	66.64	169	eP	32	57.00	-0.1									
TRO	66.86	341	eP	32	58.04	0.0									
FORR	67.02	191	eP	32	58.50	-0.9									
	0.4s														
		103.00nm													
STK	67.06	179	iPc	32	59.40	-0.2									
	1.0s														
		19.00nm													
			eS	41	35.50										
DAG	67.21	355	iPc+	32	58.10	-2.1									
	1.2s														
		109.38nm													
Z	21s														
		1.29um													
N	20s														
		1.56um													
E	19s														
		1.25um													
PGC	68.01	45	eP	33	05.00	-0.6									
MRWA	68.36	203	eP	33	07.50	-0.4									
	0.4s														
		13.00nm													
COOL	68.48	198	eP	33	08.00	-0.6									
SUF	68.94	333	iP	33	10.30	-0.8									
GMW	68.94	46	P	33	11.00	-0.4									
BMW	69.21	47	P	33	13.20	0.0									
LOF	69.32	341	ePc	33	13.23	-0.1									
BAL	69.43	202	eP	33	14.00	-0.4									
TEH	69.61	300	eP	33	20.00	4.2X									
PNT	69.86	43	ePc	33	16.00	-1.0									
	1.3s														
		83.00nm													
LON	69.92	46	P	33	17.40	-0.1									
BWA	69.99	173	eP	33	18.50	0.7									
KLB	70.05	200	eP	33	17.00	-1.2									
ADE	70.14	181	eP	33	19.50	0.8									
	1.0s														
		50.00nm													
MUN	70.86	202	eP	33	34.00	10.9X									
NUR	70.87	332	iP	33	22.00	-0.9									
	0.5s														
		46.30nm													
			eS	42	32.00										
CAN	70.94	173	eP	33	25.00	1.4									
EDM	71.07	38	ePc	33	23.00	-1.3									
DPW	71.42	44	P	33	26.50	-0.1									
JNW	71.43	350	iP	33	26.90	0.8									
FHC	71.62	53	ePc	33	28.70	0.9									
NEW	71.82	43	P	33	28.50	-0.4									
SHI	71.84	294	iPc	33	30.00	0.6									
TAB	71.93	304	iP+	33	31.00	1.1									
BFD	72.36	178	eP	33	35.00										

01d 01h

LPO 92.00 332 eP 35 14.70 0.6
 1.1s 73.25nm 6.0mb
 FVM 93.05 38 P 35 18.60 -0.5
 EPF 93.72 332 iPc 35 22.10 0.0
 1.0s 23.00nm 5.6mb
 UYO 93.82 43 iPd 35 22.50 -0.1
 CBM 94.03 19 P 35 23.90 0.5
 HBVT 94.90 23 P 35 28.00 0.5
 RSCP 97.32 36 P 35 36.40 -2.2
 1.4s 88.41nm 6.1mb

TOL 98.10 333 eP 35 43.00 0.9
 ePP 39 49.00
 eSKS 46 19.00
 iS 47 32.00
 eSS 54 22.00

KRI 116.29 268 ePKP 40 52.50 2.9X
 iP 41 56.20

LSZ 116.63 270 ePKP 40 51.00 0.7
 i 40 58.00

BUL 118.80 265 ePKP 40 54.30 0.0
 iP 42 14.30

SLR 121.74 259 iPKPc 41 00.00 0.2
 1.0s 30.00nm
 Z 20s 13.30um 6.6msz

BPI 122.14 259 ePKP 41 00.70 0.1
 SEK 123.41 257 ePKP 41 05.00 2.1

BLF 124.89 257 ePKP 41 07.00 1.2
 SPA 125.34 180 iPKPc 41 05.10 -0.3
 0.9s 30.00nm

FRS 125.84 256 ePKP 41 13.00 6.4X
 TIC 126.88 315 PKP 41 10.30 0.4

KIC 126.95 315 PKP 41 10.20 0.2
 SDV 127.04 40 ePKP 41 10.30 -0.1

LIC 127.23 315 PKP 41 10.90 0.4
 Z 20s 2.75um 5.9msz

NNA 139.05 64 ePKP 41 33.50 0.6
 1.1s 27.85nm
 Z 20s 1.24um 5.7msz

ARE 145.89 64 ePKP 41 46.00 0.9
 ZOBO 148.19 60 ePKPc 41 49.39 0.3
 1.5s 260.75nm

iPKPd42 03.47
 eSKPDF45 26.56
 LR 32 04.00

CCH 150.34 59 PKP 41 55.00 3.0X
 ANT 150.90 75 e(PKP) 41 57.00 4.7X

CAI 151.05 355 iPKPc 41 58.40 5.6X
 SIV 152.72 50 PKP 41 55.20 0.0
 i 42 02.60

ITR 153.34 357 ePKP 41 55.90 -0.2
 e 42 03.40
 e 42 11.10
 e 42 15.10
 e 42 31.20

LNV 153.92 96 ePKP 42 05.00 8.7X
 ROCH 154.01 93 ePKP 42 06.00 9.1X

TACH 154.24 95 ePKP 42 06.50 9.6X
 PEL 154.32 94 iPKPc 42 05.00 8.0X
 1.0s 25.00nm

BAO 158.84 23 ePKP 42 04.50 1.3
 S.D. = 1.0 on 367 of 398 obs.

* JUN 01, 1990 02h 12m 03.77± 1.69s
 45.485 N ± 7.3km 26.890 E ± 18.0km
 DEPTH = 10.0km (geophysicist)

ROMANIA (358)

VRI 0.40 343 iPd 12 12.00 0.0
 MLR 0.67 271 iP 12 18.00 0.9

PTT 1.49 347 eP 12 35.00 4.4X
 PVL 2.53 207 eP 12 45.00 -0.5

PGB 3.53 215 eP 12 59.00 -0.8
 BZS 3.71 274 eP 13 01.50 -0.8

PLD 3.73 206 eP 13 10.00 7.4X
 VTS 3.93 224 eP 13 06.00 0.5

KDZ 3.98 196 eP 13 08.00 1.9
 RZN 4.11 203 eP 13 07.00 -1.1
 S.D. = 1.2 on 8 of 10 obs.

? JUN 01, 1990 03h 25m 00.02± 7.41s
 14.130 S ± 51.8km 76.998 W ± 46.0km
 DEPTH = 33.0km (normal)

NEAR COAST OF PERU (115)

PT06 0.71 65 iPc 25 14.50 0.9
 iS 25 18.50

PT03 1.17 83 iPd 25 19.70 -0.5
 iS 25 29.90

PT02 1.30 25 iPd 25 21.60 -0.4
 eS 25 50.10

PT10 2.04 1 iP 25 33.60 0.8
 eS 25 55.00

NNA 2.14 4 eP 25 33.80 -0.3
 0.4s 5.93nm
 eS 25 57.70

PT08 2.20 12 iP 25 34.90 -0.4
 iS 25 55.00

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

? JUN 01, 1990 03h 28m 20.79± 1.97s
 10.091 N ± 34.1km 84.353 W ± 34.0km
 DEPTH = 33.0km (normal)

4.3mb (4 obs.)
 COSTA RICA (78)

Felt strongly at Santiago de Puriscal. Felt throughout Costa Rica.

DVD 2.50 131 iPd 29 00.00 0.0
 UPA 4.88 103 iPd 29 33.60 -0.2
 0.5s 56.34nm
 S 30 28.50

YKA 56.69 344 eP 38 02.20 -1.0
 0.8s 1.70nm 4.1mb

MBC 68.77 352 eP 39 24.00 0.8
 0.9s 4.00nm 4.5mb

NB2 83.94 29 P 40 50.40 1.7
 0.8s 1.10nm 4.1mb

HFS 85.31 30 ePKP 40 54.30 -1.2
 0.8s 3.10nm 4.6mb

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

JUN 01, 1990 04h 45m 09.98± 0.51s
 13.822 N ± 3.6km 61.113 W ± 9.0km
 DEPTH = 10.0km (geophysicist)

WINDWARD ISLANDS (95)
 ML 2.9 (FDF). MD 3.3 (TRN).

SLB 0.07 87 iP 45 12.71 0.3
 eS 45 15.15

SLW 0.26 41 iP 45 15.30 -0.2
 SOA 0.45 184 iP 45 18.95 -0.1
 eS 45 25.75

SVV 0.51 191 iP 45 20.35 0.0
 SVB 0.56 194 iP 45 21.45 0.0
 eS 45 30.72

BIM 0.69 3 eP 45 24.07 0.4
 S 45 34.10

MVM 0.76 16 iPc 45 24.55 -0.3
 S 45 34.00

FDF 0.91 358 eP 45 27.63 0.3
 S 45 40.40

CRM 0.95 12 iPc 45 27.60 -0.4
 S 45 40.30

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

JUN 01, 1990 04h 45m 49.85± 0.25s
 5.119 S ± 3.8km 147.722 E ± 6.0km
 DEPTH = 33.0km (normal)

5.4mb (21 obs.) 4.9msz (10 obs.)
 EAST PAPUA NEW GUINEA REGION (207)
 ML 5.7 (PMG).

CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 10S, 20C

Centroid Location:
 Origin Time 04:45:57.5 0.9
 Lat 4.33S 0.10 Lon 147.75E 0.05
 Dep 26.7 7.6 Half-duration 2.0

Moment Tensor: Scale 10¹⁷ Nm
 Mrr=-0.17 0.06 Mtt=-1.77 0.10
 Mff= 1.93 0.09 Mrt= 0.53 0.20
 Mrf= 0.38 0.21 Mtf= 0.44 0.08

Principal Axes:
 T Val= 2.08 Plg=11 Azm=278
 N -0.12 71 43
 P -1.95 15 185

Best Double Couple: Mo=2.0*10¹⁷
 NP1: Strike=322 Dip=71 Slip=-177
 NP2: 231 87 -19

LAT 1.69 205 iPc 46 19.80 2.4
 LML 1.76 204 P 45 28.53 -49.9X

MNDI 4.17 256 eP 46 57.50 4.5X
 PMG 4.30 188 iPd- 46 55.00 0.4
 eS 58 04.00

RAB 4.53 78 iPd 46 50.50 -7.4X
 iS 47 42.00

CTA 14.95 185 iPd- 49 20.20 -0.4
 1.6s 110.00nm 4.9mb
 iS 52 28.00

OIS 17.26 206 iPc 49 49.20 -0.8
 e 49 53.00

MTN 18.09 244 iPd 50 01.20 0.8
 GUA 18.74 351 eP 50 08.00 -0.5
 1.2s 375.00nm 5.5mb
 eS 53 37.00

GUMO 18.80 351 eP 50 07.00 -2.2
 1.8s 1014.00nm 5.7mb

PJG 18.80 351 eP 50 07.20 -2.0
 WB5 19.60 220 eP 50 17.10 -1.4

WRA 19.67 220 Pc 50 18.70 -0.5
 0.8s 40.50nm 4.8mb

RMO 21.27 177 Pc 50 36.00 0.2
 1.0s 181.00nm 5.4mb

KNA 21.40 239 eP 50 37.00 -0.1
 OLP 21.60 189 eP 50 40.00 0.9

BRS 22.67 168 iP 50 39.00 -10.7X
 i 50 58.00
 i 51 19.00
 eS 54 51.00

DZM 24.75 135 iPc 51 08.00 -2.0
 DAV 25.21 299 eP 51 13.00 -1.3

COO 25.63 172 eP 51 19.00 0.8
 STK 27.24 191 eP 51 32.20 -0.7
 1.2s 20.00nm 4.6mb
 iS 56 07.30

BWA 29.17 179 eP 51 50.00 -0.4
 CAN 30.08 178 eP 51 57.10 -1.4

CNB 30.09 177 eP 51 58.00 -0.6
 ADE 30.85 195 iPc 52 05.20 -0.1

TSM 31.04 287 ePc 52 09.00 1.9
 MBL 31.40 237 eP 52 10.00 -0.3

FORR 31.56 213 iPc 52 10.80 -0.7
 0.3s 17.00nm 5.4mb
 iS 56 07.30

TOO 32.36 183 eP 52 18.00 -0.6
 KKM 33.35 289 eP 52 26.50 -1.0

MEKA 35.12 229 iPc 52 42.30 -0.2
 0.6s 60.00nm 5.7mb

NANU 35.61 238 eP 52 46.00 -0.7
 COOL 35.79 221 eP 52 47.00 -1.2

MRWA 38.40 228 iPd 53 10.20 0.1
 0.6s 81.00nm 5.7mb

KLB 38.50 223 eP 53 10.00 -0.9
 BAL 38.66 225 eP 53 13.00 0.8

MUN 39.79 224 eP 53 27.00 5.3X
 RKG 40.51 221 eP 53 30.00 2.5

OZH 41.18 318 eP 53 34.50 1.5
 0.6s 100.00nm 5.7mb

Z 28s 2.10um 4.9msz X
 N 16s 1.10um 5.9 48.00

S 59 48.00
 MAT 42.39 349 eP 53 41.00 -1.9
 2.1s 420.00nm 5.8mb

Z 21s 1.79um 4.9msz
 eS 59 50.00

TCW 43.08 150 P 53 47.60 -0.9
 MNG 43.24 149 P 53 48.50 -1.3

MRW 43.31 150 eP 53 51.00 0.7
 CAW 43.40 150 P 53 49.80 -1.2

WDW 43.48 150 P 53 50.20 -1.5
 SSE 44.04 327 Pc 53 55.00 -1.3
 1.2s 28.00nm 4.9mb

Z 18s 1.10um 4.8msz
 N 18s 1.50um 5.0um

E 18s 1.26um 54 01.00 20kmX
 pP 00 32.00

OIZ 44.35 304 eP 54 00.60 1.5
 N 12s 0.90um 54 15.50 3.1X

NJ2 46.06 325 Pc 54 15.50 3.1X
 4.5s 500.00nm 5.7mb X

Z 22s 0.70um 4.6msz
 N 14s 1.00um 54 00.60 1.5

E 16s 1.70um 54 27.40 2.2
 IPM 47.63 281 ePc 54 32.80 0.4

SNG 48.57 284 eP 01 19.00
 eS 54 46.50 3.3X

DL2 50.02 333 eP 54 46.50 3.3X
 1.5s 70.00nm 5.5mb

01d 08h

BAJA CALIFORNIA (48)				NANU 49.78 254 eP 11 20.90 -0.9				0.3s 3.40nm			
<ECX>. ML 2.2 (ECX).				MAT 59.06 332 eP 12 27.00 -1.7				EPF 150.76 341 ePKP 22 17.10 5.4X			
ENX 0.45 282 eP	32 21.50	-0.8		SSE 64.66 316 P 13 04.50 -1.5				0.5s 2.90nm			
PBX 0.49 265 iPc	32 22.10	-1.1		CN2 70.80 329 Pd 13 43.00 -0.9				S.D. = 0.9 on 55 of 71 obs.			
CBX 0.68 320 ePc	32 25.40	-1.5		BJI 73.42 321 eP 13 59.00 -0.4				? JUN 01, 1990 10h 10m 15.20 ± 7.26s			
EMX 0.80 75 eP	32 27.76	-1.5		TIY 74.40 317 P 14 05.50 0.2				45.493 N ± 15.1km 2.636 E ± 53.5km			
ECBX 0.99 108 ePc	32 30.70	-2.1		CHG 76.06 294 eP 14 15.00 0.1				DEPTH = 10.0km (geophysicist)			
LMX 1.06 72 ePd	32 32.10	-1.9		CHTO 76.06 294 IP 14 14.90 0.0				FRANCE (538)			
6 obs. associated				LZH 79.44 312 Pd 14 33.50 0.2				MD 1.5 (STR).			
* JUN 01, 1990 09h 35m 52.08 ± 0.85s				GTA 83.80 314 P 14 56.00 0.3				PYM 0.37 45 Pg 10 22.63 -0.1			
31.449 S ± 7.4km 68.515 W ± 6.6km				APO 131.43 343 ePKP 21 36.00 -1.2				LBL 0.50 121 Pg 10 25.36 0.0			
DEPTH = 10.0km (geophysicist)				NB2 131.72 345 PKP 21 37.30 -0.5				AGO 0.66 32 Pg 10 28.31 0.0			
SAN JUAN PROVINCE, ARGENTINA (137)				CDF 143.71 338 ePKP 21 56.80 -3.5X				PLDF 0.84 55 Pg 10 31.61 0.2			
RTLL 0.12 18 iPc	35 55.10	-0.1		BSF 144.37 338 ePKP 21 58.50 -2.9X				S.D. = 0.2 on 4 of 4 obs.			
ZON 0.17 235 iPc	35 55.50	-0.5		HAU 144.38 339 ePKP 21 58.50 -2.8X				* JUN 01, 1990 10h 28m 59.44s			
RTCB 0.25 261 eP	35 57.80	0.4		ARV 145.05 328 PKP 22 02.00 -0.6				64.645 N 152.210 W			
CFA 0.28 124 IPd	35 58.10	0.1		VAI 145.22 334 PKPc 22 01.80 -0.9				DEPTH = 5.0km (geophysicist)			
RTCV 0.41 183 e(P)	36 00.60	0.1		SFI 145.30 329 PKP 22 03.50 0.6				CENTRAL ALASKA (1)			
S.D. = 0.5 on 5 of 5 obs.				PGD 145.40 329 PKPc 22 04.00 0.6				<AGS-P>.			
* JUN 01, 1990 09h 46m 50.11 ± 0.80s				CRE 145.46 329 PKP 22 03.50 0.1				KTH 1.23 152 eP 29 21.60 -1.3			
38.327 N ± 12.6km 25.109 E ± 7.6km				ASS 145.49 327 PKP 22 02.50 -0.9				NEA 1.35 91 eP 29 23.79 -1.1			
DEPTH = 10.0km (geophysicist)				FLN 145.68 346 ePKP 22 02.30 -1.2				IMA 1.56 337 eP 29 28.19 0.2			
AEGEAN SEA (365)				LDF 145.76 346 ePKP 22 02.60 -1.0				MCK 1.70 121 eP 29 30.59 0.6			
ML 3.1 (ATH).				BOB 145.79 332 PKP 22 03.90 0.0				WRH 1.79 94 eP 29 29.30 -1.9			
ATH 1.15 253 ePb	47 12.00	0.3		BDI 145.80 330 PKPc 22 02.90 -1.0				CCB 1.90 88 eP 29 30.78 -1.9			
SMG 1.50 114 ePb	47 17.50	0.5		LOR 145.86 341 ePKP 22 03.30 -0.6				FBA 1.91 80 eP 29 31.51 -1.4			
IZM 1.69 87 ePn	47 19.50	-0.4		MNS 145.96 326 PKP 22 04.00 -0.2				RND 1.93 129 IP 29 35.33 2.0			
NEO 1.77 304 ePg	47 39.00	18.0X		LBF 146.07 340 ePKP 22 03.50 -0.8				HUR 2.03 145 eP 29 36.69 2.0			
EZN 1.77 32 IPn	47 21.00	0.0		GRR 146.12 347 ePKP 22 04.10 -0.1				HDA 2.29 94 eP 29 38.05 -0.3			
VLI 2.36 228 ePb	47 29.00	-0.5		SSF 146.16 341 ePKP 22 04.20 -0.1				TTA 2.41 226 eP 29 39.28 -1.0			
S.D. = 0.6 on 5 of 6 obs.				LPL 146.33 336 ePKP 22 05.30 0.3				SKT 2.69 173 IP 29 42.98 -1.2			
* JUN 01, 1990 09h 55m 03.00 ± 1.24s				LPG 146.34 336 ePKP 22 05.30 0.2				PWA 3.19 160 IP 29 50.49 -0.6			
44.450 N ± 11.1km 7.378 E ± 8.4km				SMF 146.41 340 ePKP 22 04.40 -0.4				GHO 3.25 151 eP 29 50.87 -1.2			
DEPTH = 10.0km (geophysicist)				AVF 146.44 341 ePKP 22 04.40 -0.4				SUA 3.26 168 eP 29 51.03 -1.3			
NORTHERN ITALY (545)				LPF 146.50 347 ePKP 22 05.30 0.5				15 obs. associated			
ML 1.9 (GEN).				BNI 146.74 335 PKP 22 07.10 1.6				? JUN 01, 1990 10h 29m 37.58 ± 1.02s			
PZZ 0.21 286 P	55 07.53	0.0		BGF 146.81 341 ePKP 22 06.00 0.6				4.244 N ± 16.8km 128.281 E ± 28.4km			
STV 0.21 191 P	55 07.63	0.0		PLDF 147.08 340 PKP 22 07.93 2.0X				DEPTH = 160.0km (geophysicist)			
ENR 0.23 172 P	55 08.35	0.4		AGO 147.17 340 PKP 22 07.78 1.8X				4.9mb (6 obs.)			
FIN 0.64 112 P	55 16.25	0.3		MAF 147.20 341 ePKP 22 07.30 1.3				NORTH OF MALMAHERA (264)			
IMI 0.65 146 P	55 15.32	-0.8		TCF 147.25 342 ePKP 22 07.10 1.0				MTN 17.21 171 eP 33 27.30 -2.7			
S.D. = 0.7 on 5 of 5 obs.				SBF 147.39 333 ePKP 22 07.10 0.6				WB5 24.71 166 eP 34 47.00 1.4			
JUN 01, 1990 10h 02m 46.65 ± 1.10s				PYM 147.48 340 PKP 22 08.70 2.1X				WRA 24.76 166 Pc 34 47.40 1.3			
15.697 S ± 8.0km 167.938 E ± 8.0km				LSF 147.49 342 ePKP 22 07.50 1.0				SSE 27.53 347 P 35 10.00 -1.2			
DEPTH = 192.5 ± 9.8 km				MFF 147.62 345 ePKP 22 08.00 1.3				1.5s 21.00nm 4.6mb			
4.8mb (7 obs.)				PGF 147.71 330 ePKP 22 08.40 1.3				LOE 29.12 299 eP 35 25.00 -0.6			
VANUATU ISLANDS (186)				LBL 147.85 339 PKP 22 10.12 3.1X				CHG 32.10 299 iPc 35 52.00 0.2			
PVC 2.06 170 IPd	03 26.20	0.6		BCAO 147.92 253 IPKpd 22 09.00 0.9				0.8s 15.30nm 4.8mb			
DZM 6.50 192 IPc	04 20.90	-0.2		FRF 147.97 334 ePKP 22 08.80 1.5				CHTO 32.10 299 iPc 35 51.90 0.1			
BRS 18.26 228 IPd	06 49.00	0.6		LRG 148.18 334 ePKP 22 09.50 1.9X				0.7s 13.98nm 4.9mb			
RMQ 20.84 236 eP	07 15.20	0.6		LMR 148.22 334 ePKP 22 09.40 1.7				LZH 38.07 328 iPc 36 52.00 2.9X			
COO 20.87 222 IPc	07 15.40	0.5		RJR 148.35 342 ePKP 22 10.00 2.1X				2.0s 76.00nm 5.1mb			
PMG 21.22 285 IPd	07 19.00	0.7		CAF 148.51 341 ePKP 22 10.60 2.4X				46.69 305 P 37 53.00 0.4			
LAT 22.40 291 IPd	07 11.00	-18.9X		LPO 149.01 341 ePKP 22 12.00 3.1X				0.8s 28.00nm 4.9mb			
HBZ 23.67 159 eP	07 41.40	-0.5						PKI 46.95 304 P 37 54.40 -0.3			
PUZ 24.08 160 P	07 47.00	1.2						GKN 47.44 304 P 38 00.40 -0.2			
NOZ 24.50 161 eP	07 49.80	0.1						MAIO 70.44 307 eP 40 38.00 1.3			
MNG 25.68 167 P	07 58.40	-2.2						HFS 98.28 333 eP 42 58.00 0.3			
LTZ 27.25 173 P	08 13.50	-1.3						0.7s 2.50nm 4.8mb			
WB5 32.20 258 eP	08 56.00	-2.7X						S.D. = 1.3 on 12 of 13 obs.			
WRA 32.23 257 Pc	08 56.30	-2.6X						? JUN 01, 1990 10h 31m 27.76 ± 5.71s			
FORR 39.35 240 eP	09 58.20	-0.7						44.036 N ± 33.6km 6.423 E ± 29.3km			
MBL 45.83 256 IPd	10 40.10	-11.2X						DEPTH = 10.0km (geophysicist)			
								FRANCE (538)			
								ML 2.2 (LDG).			
								FRF 0.50 161 Pg 31 37.80 -0.1			
								Sg 31 46.60			
								LRG 0.58 184 Pg 31 39.20 -0.4			
								Sg 31 49.20			
								LMR 0.71 175 Pg 31 42.20 0.5			
								Sg 31 53.40			

SBF 0.75 103 Pg 31 42.50 0.0
 Sg 31 53.90
 S.D. = 0.7 on 4 of 4 obs.
 JUN 01, 1990 10h 59m 24.61± 0.56s
 6.004 S ± 5.9km 76.931 W ± 14.2km
 DEPTH = 10.0km (geophysicist)
 4.1mb (1 obs.)

NORTHERN PERU (111)

TUNG 4.80 342 P 00 39.80 0.8
 IS 01 35.50
 VC1 5.53 345 P 00 50.60 1.1
 eS 01 53.20
 PT08 5.93 176 IP 00 55.00 0.0
 IS 02 03.40
 NNA 5.95 179 IP 00 54.90 0.0
 0.7s 17.12nm 4.9mb X
 eS 01 59.50
 PT10 6.03 180 ePd 00 56.50 0.4
 e(S) 02 04.80
 CAYA 6.13 350 eP 00 57.70 -0.3
 COTA 6.45 347 eP 01 07.70 5.2X
 PT02 6.91 176 eP 01 07.30 -1.2
 eS 02 21.80
 PT06 7.80 176 IP 01 22.10 1.2
 IS 02 25.60
 ZOBO 13.36 140 P 02 37.00 -0.5
 Z 22s 0.24um
 LR 08 26.00
 LPB 13.58 141 P 02 41.00 0.8
 e 06 19.00
 SIV 18.45 124 P 03 42.00 -0.2
 KIC 73.09 82 P 10 58.00 0.4
 YKA 74.13 343 eP 11 00.20 -2.5
 0.4s 0.80nm 4.1mb
 S.D. = 1.1 on 13 of 14 obs.

JUN 01, 1990 11h 00m 23.11± 0.18s
 15.985 N ± 4.5km 147.391 E ± 3.6km
 DEPTH = 34.9km (5 depth phases)
 5.1mb (26 obs.) 4.4Msz (5 obs.)

MARIANA ISLANDS REGION (215)

CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 9S, 17C
 Centroid Location:
 Origin Time 11:00:25.0 1.6
 Lat 15.44N 0.22 Lon 147.57E 0.09
 Dep 15.0 FIX Half-duration 1.5
 Moment Tensor: Scale 10**16 Nm
 Mrr=-2.91 0.38 Mtt=-0.27 0.52
 Mff= 3.19 0.40 Mrt= 0.00 0.00
 Mrf= 0.00 0.00 Mtf=-0.36 0.44
 Principal Axes:
 T Vol= 3.23 Plg= 0 Azm=264
 N -0.31 0 174
 P -2.91 90 180
 Best Double Couple:Mo=3.1*10**16
 NP1:Strike=354 Dip=45 Slip=-90
 NP2: 174 45 -90

GUMO 3.41 226 eP 01 15.50 0.2
 GUA 3.42 225 eP 01 14.60 -0.7
 eS 01 51.70
 RAB 20.60 166 e(P) 05 02.00 0.0
 MAT 22.04 340 eP 05 15.00 -1.5
 0.7s 25.34nm 4.8mb
 eS 09 09.00
 PMG 25.23 181 eP 05 48.00 0.5
 OCP 25.41 271 eP 05 30.00 -19.2X
 BAG 25.75 275 eP 05 55.00 2.4
 SSE 28.24 307 eP 06 14.50 -0.6
 MDJ 32.26 336 eP 06 52.50 1.9
 MTN 32.85 210 eP 06 55.30 -0.6
 CN2 33.41 331 eP 07 02.40 1.8
 Z 18s 0.60um 4.4Msz
 WHN 33.49 302 eP 07 00.00 -1.4
 OIZ 35.89 280 eP 07 23.60 1.4
 eS 13 02.00
 8JI 36.21 318 eP 07 23.00 -1.6
 1.5s 20.00nm 4.8mb
 Z 24s 0.64um 4.3MszX
 ePP 08 52.00
 OIS 37.11 192 eP 07 30.00 -2.3
 WB5 37.87 200 eP 07 38.90 0.2
 i 07 48.80 34km

WRA 37.94 200 Pd 07 43.10 3.8X
 0.8s 10.50nm 4.8mb
 GYA 39.22 292 P 07 51.00 0.8
 pP 08 01.60 37km
 S 13 51.00
 BTO 40.59 315 eP 08 01.50 0.2
 DZM 42.18 153 iPd 08 24.00 9.6X
 CD2 42.42 298 eP 08 16.00 -0.4
 KMI 42.62 290 Pc 08 19.50 1.2
 2.0s 100.00nm 5.2mb
 Z 20s 0.50um 4.4Msz
 PP 08 26.00
 eS 14 35.00
 LZH 43.52 306 Pd 08 25.00 -0.4
 2.0s 100.00nm 5.2mb
 Z 20s 0.50um 4.4Msz
 pP 08 35.00 34km
 sP 08 40.50
 eS 14 53.00
 LOE 43.68 279 eP 08 28.00 1.3
 NST 45.39 276 eP 08 41.00 0.6
 ADK 45.77 30 eP(P) 08 43.00 0.0
 CHG 46.21 281 eP 08 47.00 0.1
 CHTO 46.21 281 eP 08 47.00 0.1
 0.6s 8.42nm 4.9mb
 BDT 46.29 279 eP 08 48.20 0.7
 WARB 46.52 206 iPc 08 48.50 -0.7
 SNG 46.56 265 eP 08 50.00 1.1
 IPM 46.90 261 ePd 08 54.10 1.7
 GTA 47.49 309 P 08 56.40 -0.6
 Z 18s 0.90um 4.8Msz
 LSA 53.13 295 P 09 41.30 0.8
 SDN 55.80 33 eP 09 57.90 -1.1
 WMQ 57.31 312 iPc 10 09.60 -0.5
 1.5s 50.00nm 5.3mb
 Z 20s 0.40um 4.5Msz
 S 18 05.00
 GUN 57.76 293 P 10 13.00 -0.9
 PKI 58.19 293 P 10 15.60 -1.2
 GKN 58.86 293 P 10 20.40 -0.9
 TTA 60.95 26 eP 10 34.40 -0.6
 IMA 63.11 23 eP 10 49.10 -0.3
 1.2s 19.50nm 5.1mb
 PMR 63.53 29 eP 10 50.60 -1.4
 1.2s 43.00nm 5.4mb
 TOA 65.02 28 eP 11 02.00 0.1
 FBA 65.03 25 eP 11 00.60 -1.2
 INK 71.23 23 eP 11 39.50 -0.9
 1.0s 31.00nm 5.3mb
 QUE 74.03 297 eP 11 57.40 -0.4
 MBC 75.36 14 ePc 12 05.00 0.5
 1.0s 13.00nm 4.9mb
 MCW 78.03 43 P 12 20.40 0.6
 GMW 78.27 44 P 12 21.50 0.3
 FHC 78.72 51 ePc 12 27.30 3.5X
 SHW 78.90 45 P 12 25.50 0.7
 YKA 79.62 28 eP 12 27.50 -0.6
 0.8s 15.50nm 5.0mb
 WDC 79.84 51 ePc 12 30.20 0.4
 e 12 41.30 36km
 PNT 79.98 42 ePc 12 31.00 0.6
 0.9s 18.00nm 5.1mb
 NWRM 80.03 53 P 12 30.90 0.1
 MIN 80.58 51 ePc 12 33.90 -0.1
 BRK 80.64 53 eP 12 34.50 0.4
 BKS 80.66 53 ePc 12 34.50 0.3
 ORV 80.84 52 ePc 12 35.40 0.2
 DPW 81.22 43 P 12 37.10 0.0
 MHC 81.24 54 ePc 12 38.10 0.6
 ARN 81.32 54 P 12 38.00 0.2
 PRS 81.68 55 ePc 12 40.20 0.6
 NEW 81.83 42 P 12 40.20 0.0
 1.0s 33.13nm 5.3mb
 LLA 81.95 54 ePc 12 41.70 0.7
 CMB 82.04 53 ePc 12 42.10 0.6
 e 12 52.80 34km
 PRI 82.28 55 ePc 12 43.70 0.8
 EDM 82.78 37 eP 12 45.50 0.5
 FRI 82.82 54 iPc 12 46.00 0.5
 KVN 83.52 51 P 12 49.30 0.0
 TNP 84.45 52 P 12 54.40 0.4
 0.9s 6.18nm 4.8mb
 PAS 84.77 56 eP 12 55.00 -0.4
 CLC 84.77 54 eP 12 55.00 -0.5
 SBB 84.90 56 eP 12 56.00 -0.2
 KEV 85.00 342 iP 12 56.00 0.1
 0.7s 18.70nm 5.4mb

SES 85.02 39 eP 12 57.00 0.6
 1.2s 73.00nm 5.7mb
 RVR 85.45 58 eP 12 59.00 0.2
 GSC 85.53 55 eP 13 00.00 0.6
 LRM 85.58 44 eP 13 00.10 0.5
 BAR 86.38 57 eP 13 08.00 4.5X
 SOD 86.45 341 iP 13 03.00 -0.1
 DAG 87.06 357 iPd 13 05.40 -0.6
 1.1s 11.39nm 5.0mb
 DUG 87.10 49 P 13 07.30 0.2
 GLA 87.76 56 eP 13 11.00 0.8
 MSU 88.11 51 P 13 12.50 0.5
 DAU 88.16 49 P 13 12.30 0.0
 FFC 88.49 33 iPc 13 13.70 0.5
 1.1s 40.00nm 5.6mb
 BW06 88.55 46 P 13 13.40 -0.7
 1.2s 6.85nm 4.8mb
 NUR 91.12 335 eP 13 24.00 -1.4
 RSSD 91.76 43 P 13 28.50 -0.5
 GOL 92.62 48 P 13 33.60 0.5
 0.8s 6.70nm 5.1mb
 GLD 92.71 47 P 13 34.50 1.1
 1.2s 17.68nm 5.4mb
 ANMO 93.66 52 P 13 38.40 0.6
 1.0s 6.25nm 5.0mb
 ALQ 93.66 52 eP 13 37.00 -0.9
 1.0s 5.25nm 4.9mb
 HFS 95.49 339 ePKP 13 43.60 -1.9
 0.8s 4.10nm 4.9mb
 i 13 45.20 5kmX
 N02 95.66 340 P 13 45.30 -1.1
 0.9s 4.50nm 4.9mb
 FRB 95.81 15 eP 13 47.00 0.1
 KIC 144.59 307 PKP 19 57.40 -1.3
 TIC 144.62 307 PKP 19 57.60 -1.2
 LIC 144.89 307 PKP 19 58.40 -0.8
 ZO80 145.91 96 PKP 20 02.20 0.6
 LPB 145.95 96 PKP 20 05.00 3.6X
 CCH 147.87 97 ePKP 20 07.00 2.7X
 S.D. = 0.9 on 96 of 103 obs.

JUN 01, 1990 11h 08m 35.83± 0.23s
 26.048 S ± 6.5km 176.567 W ± 6.1km
 DEPTH = 74.8km (2 depth phases)
 5.4mb (22 obs.)

SOUTH OF FIJI ISLANDS (171)

CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 16S, 33C
 Centroid Location:
 Origin Time 11:08:39.7 1.0
 Lat 25.41S 0.11 Lon 176.32W 0.09
 Dep 15.0 FIX Half-duration 1.8
 Moment Tensor: Scale 10**17 Nm
 Mrr= 1.05 0.06 Mtt= 0.11 0.08
 Mff=-1.16 0.08 Mrt=-0.22 0.18
 Mrf= 0.81 0.30 Mtf=-0.15 0.07
 Principal Axes:
 T Vol= 1.37 Plg=68 Azm=237
 N 0.07 12 359
 P -1.43 18 93
 Best Double Couple:Mo=1.4*10**17
 NP1:Strike=201 Dip=29 Slip= 115
 NP2: 353 64 77

RAO 3.41 200 IP 09 30.20 2.5
 eS 10 14.00
 MNG 15.97 203 eP 12 14.00 -3.2X
 DZM 16.01 281 iPc 12 20.00 2.0
 PVC 16.28 297 iPc 12 25.20 4.0X
 MTW 16.44 202 P 12 23.50 0.3
 MOW 16.76 202 eP 12 26.10 -1.0
 MRW 16.78 203 eP 12 27.00 -0.3
 eS 15 22.00
 TCW 16.92 204 P 12 20.20 -0.9
 KHZ 18.24 204 P 12 44.40 -0.9
 LTZ 19.04 206 P 12 52.60 -2.1
 BRS 27.39 260 iPc 14 18.30 2.1
 COO 28.08 253 iPc 14 25.20 2.8X
 0.5s 16.00nm 4.9mb
 CNB 30.60 244 iPc 14 47.10 2.2
 CAN 30.89 244 eP 14 49.20 1.7
 RMO 31.05 261 iPd 14 50.00 1.2
 0.7s 202.00nm 6.0mb
 eS 21 59.30
 BWA 31.26 246 eP 14 50.20 -0.5
 CMS 33.29 252 iPd 15 09.30 0.9

PHAM	82.68	55 P	26 31.40	0.6
EDM	82.90	37 ePd	26 31.50	-0.1
FRI	82.94	54 ePd	26 32.20	0.1
KVN	83.64	51 P	26 35.50	-0.4
TNP	84.56	52 P	26 40.80	0.2
	1.0s	14.17nm		5.1mb
CLC	84.89	54 eP	26 42.00	-0.1
SBB	85.01	56 eP	26 43.00	0.3
KEY	85.04	342 iP	26 42.20	0.2
	0.7s	28.00nm		5.6mb
SES	85.13	39 eP	26 43.00	0.0
	1.2s	108.00nm		5.9mb
		pP	26 54.00	35km
RVR	85.56	56 eP	26 49.00	3.6X
GSC	85.65	55 eP	26 46.00	0.1
LRM	85.70	44 eP	26 46.40	0.2
SOD	86.48	341 iP	26 49.50	0.2
TPC	86.59	56 eP	26 50.00	-0.5
PTI	86.69	46 P	26 51.90	0.9
DAG	87.13	357 iPd	26 51.70	-0.5
	1.0s	11.00nm		5.0mb
DUG	87.22	49 P	26 53.50	-0.1
TRO	87.36	344 eP	26 53.70	0.2
GLA	87.87	56 eP	26 57.00	0.3
MSU	88.22	51 P	26 58.90	0.3
FFC	88.60	33 iPd	26 59.50	-0.2
	1.0s	45.00nm		5.7mb
BW06	88.67	46 P	27 00.30	-0.3
	1.0s	5.00nm		4.8mb
NUR	91.15	335 iP	27 11.00	-0.5
	0.8s	19.10nm		5.5mb
RSSD	91.88	43 P	27 14.90	-0.6
GOL	92.74	48 P	27 20.20	0.6
	0.8s	10.42nm		5.3mb
GLD	92.83	47 P	27 20.90	1.0
	1.1s	28.93nm		5.6mb
ANMO	93.77	52 P	27 24.80	0.5
	1.1s	10.28nm		5.2mb
ALO	93.77	52 eP	27 24.00	-0.4
	1.0s	7.75nm		5.1mb
UPP	94.29	337 iP	27 24.90	-1.0
HFS	95.52	339 P	27 30.10	-1.6
	0.6s	4.80nm		5.1mb
NB2	95.70	340 P	27 31.80	-0.7
	0.9s	6.30nm		5.1mb
UOSK	96.06	299 ePc	27 35.70	0.8
BRG	101.98	332 ePdiff28	19.70 18.9X	
		i	28 27.70	
		i	28 39.60	
ZST	102.30	328 e(Pdiff28	21.50 19.2X	
		e	28 47.80	
KHC	103.37	331 iPdiff28	22.80 15.7X	
		e	28 48.50	
EKA	104.75	343 Pdiffc28	18.90 5.9X	
	0.8s	12.30nm		5.9mb
FLN	109.53	338 ePdiff28	53.10 18.7X	
	0.7s	15.45nm		
LDF	109.54	338 ePdiff28	54.00 19.5X	
	0.7s	8.80nm		
GRR	109.98	338 ePdiff28	54.80 18.3X	
	0.8s	12.10nm		
LPF	110.35	338 ePdiff28	56.60 18.5X	
	0.7s	14.35nm		
BUL	121.81	256 iPKPd	33 13.20 11.1X	
KIC	144.56	307 PKP	33 42.80 -1.8	
TIC	144.59	307 PKP	33 43.20 -1.5	
LIC	144.86	307 PKP	33 44.20 -0.9	
LPB	146.04	96 PKP	33 48.00 0.5	
MBO	146.10	332 iPKPc	33 50.00 2.9X	
SIV	152.73	94 PKP	33 57.80 0.5	

S.D. = 0.8 on 92 of 106 obs.

% JUN 01, 1990 11h 34m 34.85±0.77s
37.712 N ± 8.4km 21.723 E ± 10.0km
DEPTH = 10.0km (geophysicist)

SOUTHERN GREECE (368)

ITM	0.56	163 ePn	34 46.00	-0.1
		eSn	34 54.50	
VLS	1.01	298 ePn	34 54.50	0.5
		eSn	35 12.00	
VLI	1.39	135 ePb	35 00.30	0.1
NEO	1.98	36 ePn	35 09.00	0.2
KEK	2.50	324 ePn	35 15.50	-0.7

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

& JUN 01, 1990 12h 19m 20.34s

59.863 N 152.835 W
DEPTH = 107.5km
3.4mb (1 obs.)
SOUTHERN ALASKA (2)
<AGS-P>

RED	0.56	3 iP	19 36.87	-0.8
		iS	19 49.69	
AUL	0.57	213 eP	19 37.15	-0.5
AUE	0.57	209 iP	19 36.98	-0.7
XLV	0.70	125 eP	19 38.00	-0.7
		eS	19 52.22	
NNL	0.79	76 iP	19 40.05	0.5
CDD	1.02	204 iP	19 40.76	-1.1
MCNL	1.02	229 iP	19 40.80	-1.1
		eS	19 56.22	
NKA	1.19	41 eP	19 44.75	1.1
SHU	1.26	168 eP	19 40.95	-3.6
SPU	1.38	16 iP	19 44.92	-1.1
		eS	20 04.18	
CRP	1.45	13 iP	19 46.09	-0.8
		eS	20 06.06	
SLKM	1.46	63 eP	19 45.65	-1.3
		eS	20 05.42	
CGLM	1.51	15 iP	19 46.64	-0.9
		eS	20 06.59	
NCG	1.58	12 eP	19 47.49	-1.0
		eS	20 07.75	
SEW	1.72	80 eP	19 48.86	-1.2
SVW	1.86	313 iP	19 50.16	-1.8
		eS	20 11.40	
SUA	1.91	32 iP	19 51.79	-0.9
		eS	20 16.39	
PMS	2.13	48 iP	19 54.33	-1.1
		iS	20 19.72	
SKT	2.22	16 iP	19 55.08	-1.5
PWA	2.31	38 eP	19 56.22	-1.5
PLRM	2.51	45 eP	19 58.04	-2.4
MTU	2.61	85 eP	20 00.68	-1.1
GHO	2.71	43 iP	20 01.01	-2.2
CUT	2.84	25 eP	20 03.13	-1.7
SML	2.94	47 iP	20 03.94	-2.3
GLI	3.03	68 eP	20 05.31	-2.1
HIN	3.21	78 eP	20 07.98	-1.9
MID	3.33	95 eP	20 10.02	-1.4
VZW	3.33	66 eP	20 10.02	-1.6
VLZ	3.46	66 eP	20 11.86	-1.3
HUR	3.48	25 eP	20 12.22	-1.3
CVA	3.60	76 eP	20 12.83	-2.3
NCA	3.63	51 eP	20 13.07	-2.5
KLU	3.77	61 eP	20 15.01	-2.6
KTH	3.81	13 eP	20 15.67	-2.5
SGAM	3.86	77 eP	20 16.48	-2.3
TOA	3.95	52 iP	20 18.11	-1.9
RND	4.03	26 eP	20 18.98	-2.1
RAGM	4.12	79 eP	20 20.27	-2.0
MCK	4.30	24 eP	20 22.86	-1.9
PAX	4.72	45 eP	20 28.16	-2.3
WAX	5.02	79 eP	20 32.70	-2.0
NEA	5.05	19 eP	20 31.95	-3.0
TGL	5.06	75 eP	20 33.26	-1.9
WRH	5.13	24 eP	20 33.03	-3.1
DDM	5.14	37 eP	20 35.49	-0.8
BALM	5.33	73 eP	20 37.22	-1.7
HDA	5.33	29 iP	20 36.06	-2.8
CCB	5.34	24 eP	20 35.74	-3.3
FBA	5.57	23 eP	20 38.94	-3.2
PCA	6.32	82 eP	20 50.66	-1.9
YKA	18.43	65 eP	23 26.30	-3.4
	0.3s	0.60nm		3.4mb

52 obs. associated

% JUN 01, 1990 13h 22m 39.86±2.84s
45.762 N ± 10.0km 26.725 E ± 13.6km
DEPTH = 84.9 ± 29.1 km

ROMANIA (358)

VRI	0.11	360 iPd	22 51.00	-0.5
BRD	0.33	137 iPc	22 53.00	-0.1
MLR	0.61	244 iP	22 55.50	0.1
ISR	0.64	192 iPc	22 56.00	0.4
PPE	0.77	53 ePc	22 58.00	1.1
CLI	0.88	26 iPc	22 57.50	-0.6
CFR	1.16	119 iPc	23 01.00	-0.4
TLB	1.49	141 iPc	23 05.50	-0.1
IAS	1.54	22 eP	23 23.00	16.7X

S.D. = 0.7 on 8 of 9 obs.

* JUN 01, 1990 13h 48m 00.65±0.43s
14.999 S ± 15.1km 176.340 W ± 9.8km
DEPTH = 13.2km (13 depth phases)
5.0mb (14 obs.) 4.9msz (1 obs.)

FIJI ISLANDS REGION (181)

DZM	17.77	244 iPc	52 17.80	0.4
RMQ	34.48	245 eP	54 54.10	-4.4X
WRA	47.17	257 Pd	56 37.40	-5.6X
	1.1s	10.60nm		4.8mb
MTN	50.94	266 eP	57 07.60	-4.5X
	0.9s	21.00nm		5.1mb
GCC	72.75	43 eP	59 38.70	0.2
PRS	72.77	44 eP	59 39.30	0.6
		e	59 43.40	13km
SAO	72.96	43 eP	59 40.80	0.9
		e	59 44.70	13km
BRK	73.06	42 eP	59 40.60	0.3
		e	59 44.50	13km
BKS	73.08	42 ePd	59 45.10	4.6X
PRI	73.14	44 eP	59 41.90	0.9
		e	59 45.80	13km
MHC	73.16	43 eP	59 40.70	-0.4
		e	59 44.50	12km
LLA	73.21	44 e(P)	59 41.80	0.5
FRI	74.25	44 eP	59 47.10	-0.2
		e	59 51.30	14km
SBB	74.32	47 eP	59 53.00	5.1X
CMB	74.37	43 ePc	59 48.00	-0.1
		e	59 52.10	13km
WDC	74.45	40 eP	59 48.70	0.3
		e	59 52.60	13km
ORV	74.51	41 e(P)	59 48.60	-0.2
		e	59 52.60	13km
MIN	74.90	40 eP	59 50.70	-0.5
		e	59 54.80	13km
CLC	75.07	46 eP	59 53.00	0.8
SPA	75.10	180 iPc	59 50.80	-1.2
	1.2s	22.54nm		5.1mb
TPC	75.30	48 eP	59 54.00	0.5
GSC	75.36	47 eP	59 56.00	2.1
KVN	76.43	43 P	59 59.50	-0.5
TNP	76.50	44 P	00 00.00	-0.5
BMW	77.58	34 P	00 08.30	2.2
GMW	78.48	34 P	00 10.00	-0.9
CN2	78.98	321 eP	00 15.20	1.5
SNY	79.08	319 Pc	00 14.60	0.3
TTA	79.29	9 eP	00 14.20	-0.9
PMR	79.33	13 eP	00 13.40	-1.8
	1.2s	46.90nm		5.4mb
		e	00 17.60	13km
TOA	80.45	14 eP	00 20.50	-0.8
WHN	80.53	305 eP	00 25.00	2.7
PNT	81.23	34 eP	00 25.00	-0.6
	1.0s	26.00nm		5.2mb
NEW	82.00	35 P	00 27.50	-2.2
	0.9s	7.13nm		4.7mb
FBA	82.56	12 eP	00 30.50	-1.7
		id	00 34.80	14km
IMA	82.59	9 eP	00 31.70	-0.8
ALO	82.74	51 eP	00 34.00	0.0
	1.0s	7.50nm		4.8mb
ANMO	82.74	51 eP	00 34.00	0.0
	1.0s	6.88nm		4.8mb
		pP	00 39.20	16km
BJI	83.15	314 eP	00 35.00	-0.7
	1.2s	36.00nm		5.4mb
LRM	83.48	39 eP	00 37.70	0.0
BW06	83.89	43 P	00 38.90	-0.9
	0.9s	5.51nm		4.8mb
TIY	84.84	311 eP	00 44.00	-0.4
GYA	85.36	299 P	00 47.20	-0.1
SES	86.51	36 eP	00 51.00	-1.4
BTO	87.68	313 eP	00 58.00	-0.4
INK	88.58	15 eP	01 04.00	2.0
CD2	89.19	302 eP	01 03.60	-2.2
CHTO	89.89	289 eP	01 08.80	-0.4
	1.0s	5.00nm		4.7mb
LZH	90.71	307 eP	01 12.50	-0.4
	2.5s	45.00nm		5.3mb
		sP	01 32.50	
YKA	90.88	24 eP	01 12.00	-0.8
	0.9s	5.40nm		4.9mb
MBC	97.10	12 eP	01 43.50	2.4
	1.0s	7.00nm		5.2mb
NB2	133.70	355 PKP	07 24.80	-1.7

SLKM	0.88	294	iP	55 45.65	-0.7
			eS	55 58.47	
GLI	1.03	45	eP	55 47.08	-1.4
			eS	56 00.24	
HIN	1.06	77	iP	55 48.10	-0.9
PMS	1.18	337	eP	55 49.86	-0.9
VZW	1.34	47	iP	55 51.90	-1.1
			eS	56 09.19	
MID	1.36	122	iP	55 52.00	-1.1
NNL	1.36	266	eP	55 53.32	0.1
NKA	1.44	295	iP	55 56.27	2.0
PLRM	1.45	350	iP	55 53.61	-0.9
			eS	56 14.05	
CVA	1.46	74	iP	55 53.29	-1.4
VLZ	1.47	48	iP	55 53.92	-0.9
			eS	56 12.20	
PWA	1.62	338	eP	55 55.11	-1.8
GHO	1.62	354	eP	55 56.20	-0.9
SML	1.65	4	eP	55 56.58	-0.9
SUA	1.68	322	eP	55 57.86	-0.1
SGAM	1.71	77	iP	55 56.83	-1.5
KLU	1.86	43	iP	55 59.87	-0.7
			eS	56 21.95	
RAGM	1.96	82	eP	56 00.07	-1.8
SPU	1.99	302	eP	56 01.01	-1.3
NCA	2.02	24	eP	56 02.05	-0.7
CGLM	2.03	306	eP	56 02.02	-0.9
CRP	2.07	304	eP	56 02.76	-0.8
RED	2.10	279	eP	56 02.46	-1.5
NCC	2.15	307	eP	56 03.67	-0.9
TOA	2.27	30	eP	56 06.21	-0.1
SKT	2.31	323	eP	56 06.08	-0.9
CUT	2.39	341	eP	56 07.60	-0.3
CDD	2.86	246	eP	56 15.17	0.5
HUR	2.87	350	eP	56 17.80	3.1
WAX	2.87	82	iP	56 12.11	-2.7
TGL	2.91	76	eP	56 13.46	-2.0
PAX	3.18	27	eP	56 19.21	-0.1
BALM	3.20	71	eP	56 17.46	-2.1
KTH	3.57	343	eP	56 26.80	2.0
PCA	4.17	87	eP	56 30.00	-3.2

37 obs. associated

* JUN 01, 1990 16h 16m 21.92±0.64s					
3.621 N ±22.1km 31.551 W ±13.9km					
DEPTH = 10.0km (geophysicist)					
4.7mb (3 obs.)					
CENTRAL MID-ATLANTIC RIDGE (406)					
LKO	26.44	76 (P)		22 01.60	0.5
SIV	35.10	235 P		23 18.40	0.6
		i		24 29.00	
ZOBO	41.21	240 P		24 10.00	0.6
		Z 24s	0.48um	4.3mszx	
		i		25 27.00	
		LR		36 32.00	
LPB	41.30	240 P		24 09.00	-1.0
		i		25 30.00	
BCAO	49.96	87 iPc		25 18.00	-0.7
		1.6s	39.00nm	5.1mb	
		id		26 35.00	
KHC	59.35	33 eP		26 28.60	2.0X
NB2	65.71	21 P		27 09.00	0.3
		1.5s	9.90nm	4.8mb	
YKA	83.59	332 eP		28 51.20	-0.3
		1.1s	1.90nm	4.2mb	
		S.D.		= 0.8 on 7 of 8 obs.	

? JUN 01, 1990 16h 17m 32.43±1.47s					
2.547 N ±29.7km 31.528 W ±23.4km					
DEPTH = 10.0km (geophysicist)					
4.7mb (3 obs.)					
CENTRAL MID-ATLANTIC RIDGE (406)					
LKO	26.70	74 (P)		23 14.28	0.3
		0.9s	15.00nm	4.7mb	
SKO	61.44	43 eP		27 51.80	0.3
BLF	63.54	124 eP		28 13.00	7.1X
SLR	64.27	120 eP		28 10.50	-0.2
NB2	66.69	21 P		28 24.40	-1.2
		1.3s	11.00nm	4.9mb	
YKA	84.55	332 eP		30 06.50	-0.3
		1.1s	3.00nm	4.4mb	
MBC	87.02	346 eP		30 20.00	1.1
MAIO	89.33	54 eP		30 34.00	3.1X
		S.D.		= 1.0 on 6 of 8 obs.	

* JUN 01, 1990 16h 43m 31.02±1.97s
23.919 N ±15.6km 122.078 E ±11.0km
DEPTH = 10.0km (geophysicist)
4.0mb (1 obs.)

TAIWAN REGION (243)					
TWD	0.47	290	iPc	43 40.30	-0.3
			eS	43 44.20	
TWC	0.72	343	iPd	43 44.50	-0.6
			eS	43 51.90	
TWQ	1.19	288	ePc	43 53.40	0.2
TWZ	1.26	339	ePc	43 54.60	0.2
ANP	1.36	338	iP	43 56.70	0.7
			eS	44 09.00	
SSE	7.19	354 P		45 15.00	-3.7X
		Z 16s	0.40um		
			Lg	47 22.50	
YKA	82.90	23 eP		55 56.80	-0.1
		0.6s	0.70nm	4.0mb	
		S.D.		= 0.6 on 6 of 7 obs.	

JUN 01, 1990 16h 49m 35.73±0.30s
29.455 S ±7.6km 178.867 W ±9.5km
DEPTH = 33.0km (normal)
5.3mb (8 obs.)

KERMADEC ISLANDS (178)					
HBZ	8.46	195 P		51 44.90	6.0X
PUZ	8.92	195 P		51 50.10	4.8X
		S		53 24.50	
NOZ	9.49	195 P		51 58.20	5.0X
MNG	12.06	201 P		52 28.00	-0.2
		S		54 29.80	
MRW	12.86	202 eP		52 43.00	4.2X
		eS		54 52.00	
KHZ	14.31	203 P		52 57.40	-0.5
DZM	15.13	296 iPd		53 25.30	16.5X
MQZ	15.76	203 P		53 18.00	1.3
BRS	25.00	268 iPd		55 03.50	5.4X
RMQ	28.70	268 eP		55 36.00	4.0X
		1.2s	84.00nm	5.3mb	
CTA	32.91	278 iPc		56 12.80	3.6X
		0.9s	43.28nm	5.4mb	
LAT	39.34	298 iPc		57 18.90	15.1X
WRA	43.31	272 Pd		57 36.70	0.3
		0.6s	19.10nm	5.0mb	
WB5	43.31	272 iPd		57 37.10	0.7
		ePcP		59 21.70	
		e		02 51.20	
SPA	60.71	180 iPd		59 44.40	-1.8
		0.7s	19.53nm	5.3mb	
MAT	77.04	326 iPd		01 26.20	-0.9
		1.1s	58.23nm	5.5mb	
SSE	82.92	312 Pd		01 58.00	-0.6
		1.0s	10.00nm	4.9mb	
IPM	83.65	279 ePc		02 01.80	-1.0
PRS	84.84	43 e(P)		02 08.30	0.0
MHC	85.37	42 eP		02 11.80	0.8
RVR	85.78	47 eP		02 13.00	0.0
SBB	85.94	46 eP		02 14.00	0.2
ISA	86.16	45 eP		02 15.00	0.1
FRI	86.28	44 eP		02 15.50	0.2
CMB	86.57	42 ePc		02 16.90	0.1
TPC	86.70	48 eP		02 16.00	-1.6
CLC	86.81	46 eP		02 18.00	-0.1
GLA	86.84	49 eP		02 19.00	0.7
ORV	86.94	41 e(P)		02 19.40	0.8
WDC	87.06	39 e(P)		02 19.40	0.3
MIN	87.42	40 e(P)		02 20.80	-0.2
LOE	89.56	290 eP		02 07.00	-24.5X
BJI	91.72	316 eP		02 41.00	0.0
		1.3s	29.00nm	5.5mb	
CHTO	92.55	290 e(P)		02 45.60	0.3
		1.2s	13.89nm	5.3mb	

SUF	142.98	341 ePKP		09 00.00	-7.0X
UPP	147.61	344 iPKP		09 13.80	-1.0
NB2	147.70	351 PKP		09 10.20	-4.8X
		0.5s	5.00nm		
HFS	148.17	348 ePKP		09 12.30	-3.4X
		0.4s	9.70nm		
BCAO	150.15	217 iPKPc		09 22.00	1.8
		0.9s	14.00nm		
		ic		10 22.50	
PRNI	150.69	280 ePKP		09 24.00	3.4X
		S.D.		= 0.8 on 26 of 40 obs.	

% JUN 01, 1990 16h 51m 03.39±1.07s

43.059 N ±6.9km 0.383 W ±7.6km
DEPTH = 5.0km (geophysicist)
PYRENEES (378)

Felt (11) at Asson, France.					
JAU	0.02	154 Pg		51 04.64	0.0
		Sg		51 05.85	
OGE	0.13	329 Pg		51 06.09	0.0
ESCF	0.14	278 Pg		51 06.35	0.0
		Sg		51 08.93	
LHE	0.23	230 Pg		51 07.98	-0.1
		Sg		51 11.29	
ATE	0.24	277 Pg		51 08.15	0.0
		Sg		51 11.98	
ISSF	0.30	264 Pg		51 09.75	0.2
		Sg		51 14.54	
MADF	0.33	285 Pg		51 09.95	-0.1
		S.D.		= 0.1 on 7 of 7 obs.	

* JUN 01, 1990 17h 23m 58.36±1.63s
45.831 N ±11.0km 26.730 E ±9.8km
DEPTH = 102.4 ±16.2 km
ROMANIA (358)

VRI	0.04	355 iPc		24 11.50	-0.6
BRD	0.39	144 iPc		24 14.00	0.1
MLR	0.65	239 iP		24 16.00	0.1
ISR	0.71	191 iPc		24 16.50	0.1
PPE	0.73	58 eP		24 18.00	1.5
CLI	0.82	28 iPd		24 16.50	-0.8
CFR	1.19	122 iPc		24 21.00	-0.3
TLB	1.55	143 iPc		24 25.00	-0.7
PSN	2.38	154 iPd		24 37.00	0.4
PVL	2.80	201 iPc		24 43.00	0.8
PGB	3.76	210 eP		25 28.00	32.6X
KDZ	4.29	193 eP		25 02.00	-0.5
RZN	4.39	200 eP		25 04.00	-0.1
		S.D.		= 0.8 on 12 of 13 obs.	

? JUN 01, 1990 18h 05m 57.21±0.85s
15.703 S ±30.4km 70.605 W ±14.7km
DEPTH = 216.1 ±13.4 km
4.1mb (2 obs.)

SOUTHERN PERU (117)					
ARE	1.14	228 iPc		06 30.40	0.2
		iS		06 55.10	
ZOBO	2.45	104 iPd		06 45.50	2.9X
LPB	2.55	109 P		06 35.00	-8.5X
CCH	4.59	112 P		07 13.40	5.6X
PT03	5.30	288 iPd		07 13.60	-2.9X
		iS		08 07.80	
PT06	5.84	288 iP		07 27.60	4.2X
		iS		08 21.40	
PT08	6.87	302 eP		07 36.20	-0.8
		eS		08 49.60	
NNA	7.09	301 eP		07 40.00	0.4
		0.4s	7.63nm	4.2mb	
SIV	9.18	93 P		08 06.60	-0.1
YKA	85.21	341 eP		18 10.90	0.9
		0.5s	1.10nm	3.9mb	
CAN	116.87	216 ePdiff20		42.10	7.9X
BWA	117.85	216 ePdiff20		34.20	-4.4X
		e		21 06.60	
GTA	154.93	18 iPKPc		25 24.80	-0.7
		4.0s	1000.00nm		
LSA	158.20	47 PKP		25 42.40	12.0X
		S.D.		= 1.0 on 6 of 14 obs.	

JUN 01, 1990 18h 14m 44.65±0.14s
5.485 S ±2.9km 154.117 E ±3.4km
DEPTH = 144.7km (3 depth phases)
5.5mb (36 obs.)
SOLOMON ISLANDS (193)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 32C
Centroid Location:
Origin Time 18:14:45.2 0.6
Lot 5.78S 0.07 Lon 153.96E 0.04
Dep 134.9 1.4 Holf-duration 2.2
Moment Tensor: Scale 10¹⁷ Nm
Mrr=1.82 0.07 Mtt=-1.11 0.09
Mff=-0.70 0.09 Mrt=0.75 0.06
Mrf=-0.84 0.06 Mtf=0.63 0.09
Principal Axes:
T Val= 2.17 Plg=73 Azm= 55

KNA 13.31 211 eP 18 07.00 -0.9
 WB5 15.57 185 eP 18 37.20 -0.2
 e 18 47.00
 WRA 15.63 185 Pc 18 38.40 0.1
 0.7s 2.10nm 3.4mb X
 WARB 23.47 201 eP 20 11.00 4.7X
 e 21 11.00
 FORR 27.40 194 eP 20 47.00 3.9X
 e 21 25.00
 BJI 47.64 340 eP 23 38.50 4.9X
 1.5s 16.00nm 4.8mb
 LZH 50.04 326 P 23 52.50 0.0
 2.0s 38.00nm 5.1mb
 LSZ 105.73 253 ePKP 33 27.00 5.5X
 ITR 165.81 204 ePKP 35 11.10 9.1X
 S.D. = 0.9 on 5 of 10 obs.

? JUN 01, 1990 18h 20m 23.60 ± 4.74s
 31.413 S ± 16.9km 68.300 W ± 26.9km
 DEPTH = 88.8 ± 38.5 km
 SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.17 300 iPd 20 36.80 0.0
 CFA 0.20 165 iPc 20 37.10 0.2
 eS 20 48.10
 ZON 0.35 248 iPc 20 37.00 -0.4
 eS 20 49.00
 RTCB 0.43 260 iPc 20 38.40 0.4
 RTCV 0.49 204 e(P) 20 38.30 -0.1
 RTBS 1.01 256 ePc 20 43.70 0.1
 RTRS 1.59 321 iPc 20 50.80 0.0
 eS 21 12.20
 S.D. = 0.3 on 7 of 7 obs.

& JUN 01, 1990 19h 05m 56.60s
 62.289 N 149.960 W
 DEPTH = 9.4km
 CENTRAL ALASKA (1)
 <AGS-P>.

CUT 0.19 309 iP 06 00.94 0.3
 eS 06 04.29
 PWA 0.64 177 iP 06 09.17 -0.3
 HUR 0.71 12 iP 06 09.24 -1.4
 GHO 0.71 136 iP 06 09.76 -1.0
 eS 06 20.38
 SKT 0.80 248 iP 06 11.39 -0.8
 PLRM 0.80 150 iP 06 11.78 -0.4
 eS 06 23.02
 SML 0.91 121 iP 06 13.18 -0.9
 eS 06 25.56
 SUA 0.91 204 iP 06 13.59 -0.5
 PMS 1.07 170 iP 06 16.09 -0.7
 RND 1.23 24 eP 06 18.14 -1.5
 iS 06 34.16
 KTH 1.34 341 iP 06 20.68 -0.8
 iS 06 37.98
 NCG 1.37 231 eP 06 20.20 -1.7
 eS 06 40.41
 CGLM 1.38 226 eP 06 20.73 -1.4
 CRP 1.46 226 eP 06 22.54 -0.7
 eS 06 43.23
 SPU 1.49 223 eP 06 22.59 -1.0
 eS 06 43.67
 NCA 1.50 100 eP 06 22.59 -1.1
 MCK 1.52 17 eP 06 23.43 -0.5
 NKA 1.67 202 eP 06 27.86 1.8
 TOA 1.79 94 iP 06 27.39 -0.4
 SLKM 1.79 184 eP 06 27.68 -0.2
 GLI 1.97 135 iP 06 30.78 0.3
 VZW 2.04 126 eP 06 31.14 -0.4
 SDG 2.07 81 eP 06 32.26 0.4
 KLU 2.07 111 iP 06 31.29 -0.7
 VLZ 2.08 122 eP 06 31.22 -0.8
 RDT 2.08 215 eP 06 31.79 -0.4
 PAX 2.19 70 eP 06 33.33 -0.3
 SEW 2.21 173 eP 06 34.74 0.9
 RED 2.31 217 eP 06 36.18 0.7
 NEA 2.33 9 eP 06 36.86 1.2
 WRH 2.35 20 eP 06 35.20 -0.7
 DDM 2.40 49 eP 06 38.28 1.6
 HDA 2.52 31 eP 06 37.13 -1.2
 CCB 2.56 21 eP 06 37.58 -1.2
 FBA 2.79 19 eP 06 43.59 1.4
 TTA 2.87 286 eP 06 42.33 -1.1
 IMA 4.13 338 iP 06 59.18 -2.0
 37 obs. associated

JUN 01, 1990 19h 17m 04.67 ± 0.69s
 37.801 N ± 7.6km 14.943 E ± 5.5km
 DEPTH = 10.0km (geophysicist)

SICILY (398)

MNO 0.24 303 P 17 10.50 0.7
 eSg 17 15.00
 ATN 0.55 49 P 17 15.50 -0.2
 eSg 17 24.00
 MSI 0.63 50 P 17 17.80 0.5
 eSg 17 27.10
 MEU 0.70 181 P 17 18.30 -0.2
 eSg 17 28.90
 GIB 0.75 285 P 17 18.00 -1.4
 SOL 0.92 73 P 17 22.00 -0.2
 eSg 17 36.50
 FAI 1.14 243 P 17 26.80 0.9
 S.D. = 0.9 on 7 of 7 obs.

JUN 01, 1990 19h 27m 51.92 ± 0.87s
 39.905 N ± 7.1km 28.986 E ± 8.1km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

IZI 0.57 41 ePg 28 03.00 -0.5
 eSg 28 12.00
 GBZT 0.95 22 ePn 28 09.40 -0.6
 EDC 0.97 298 iPg 28 10.60 0.3
 eSg 28 24.60
 GPA 1.09 69 ePn 28 13.70 1.3
 ALT 1.22 134 ePn 28 14.00 -0.6
 KHL 1.63 165 ePn 28 21.00 0.1
 S.D. = 1.0 on 6 of 6 obs.

% JUN 01, 1990 19h 56m 36.12 ± 1.29s
 25.729 N ± 10.2km 102.839 E ± 18.2km
 DEPTH = 10.0km (geophysicist)

YUNNAN PROVINCE, CHINA (318)
 ML 3.8 (BJI).

KMI 0.61 188 Pgd 56 48.50 -0.1
 Sg 56 58.00
 GYA 3.52 77 Pn 57 33.40 1.4
 Sn 58 14.00
 CD2 5.22 9 ePn 57 56.40 0.2
 Sn 59 00.00
 CHG 7.77 208 eP 59 06.00 34.0X
 CHTO 7.77 208 e(P) 58 35.90 3.9X
 WHN 11.23 62 eP 59 18.00 -1.7
 TIY 14.46 32 eP 00 06.30 3.5X
 Z 27s 0.40um
 N 15s 0.40um
 BTO 15.99 20 eP 00 23.00 0.2
 S.D. = 1.6 on 5 of 8 obs.

JUN 01, 1990 20h 21m 27.34 ± 0.45s
 47.877 N ± 4.3km 14.248 E ± 4.6km
 DEPTH = 7.5 ± 3.5 km

AUSTRIA (546)
 ML 3.7 (VKA), 3.4 (GRF), 3.0
 (FUR), 3.3 (LDG). Felt (V) at
 Malln.

MOA 0.03 156 iPgc 21 27.40 -1.6
 KMR 0.20 337 iPg+ 21 32.60 1.1
 i(Sg) 21 37.40
 KBA 1.01 218 iP 21 45.30 -1.5
 i(Pg) 21 48.60
 i 21 50.10
 iSg 22 06.10
 i 22 06.90
 KHC 1.33 341 iPg 21 53.20 1.0
 Sg 22 11.80
 VKA 1.44 74 iPgc 21 53.30 -0.5
 i 21 58.00
 iSg 22 12.70
 i 22 15.30
 WET 1.56 325 eP 21 56.60 1.1
 SOP 1.57 96 eP 21 57.00 1.4
 FVI 1.63 218 P 21 57.90 1.5
 eSg 22 22.30
 LJU 1.84 174 e(Pn) 22 00.60 1.0
 eSn 22 25.00
 VOY 1.86 188 iPnc 22 00.50 0.5
 eSg 22 26.10
 WATA 1.89 254 iPgc 22 02.60 2.2

iSg 22 29.80
 SCE 1.92 245 eP 22 03.40 2.6
 ZST 1.94 79 iPn 22 01.80 0.8
 i(Sn) 22 25.70
 FUR 2.02 279 iPnc 22 06.20 4.1X
 PRU 2.12 5 ePn 22 03.50 -0.1
 Pg 22 05.80
 Sg 22 34.00
 CEY 2.14 177 eP 22 09.50 5.5X
 eSn 22 37.50
 SOTA 2.16 253 iPgc 22 07.30 3.0X
 iSg 22 37.70
 TRI 2.19 189 P 22 05.40 0.7
 PTJ 2.30 149 eP 22 05.50 -0.8
 OGA 2.41 246 ePn 22 12.00 4.0X
 CTI 2.55 225 P 22 11.10 1.2
 GRF 2.70 313 ePn 22 12.70 0.8
 ePg 22 19.60
 eSg 22 55.00
 SRO 2.74 90 eP 22 20.90 8.5X
 e 22 34.30
 BRG 3.01 356 ePg 22 25.00 8.8X
 eSg 23 02.00
 OSS 3.04 248 eP 22 23.70 6.9X
 KSP 3.26 23 eP 22 18.50 -1.3
 0.6s 56.00nm
 iS 23 09.00
 i 23 12.00

MOX 3.26 329 iPn 22 19.50 -0.4
 iSg 23 11.00
 CLL 3.53 347 iPg 22 23.70 0.1
 iSg 23 20.70
 SLE 3.88 270 eP 22 28.00 -0.6
 ZLA 3.98 266 eP 22 29.60 -0.4
 TMA 4.08 246 eP 22 33.40 1.8
 TNS 4.48 304 ePn 22 38.60 1.5
 eSn 23 28.30
 eSg 23 52.10
 MMK 4.67 249 eP 22 40.80 0.7
 CDF 4.70 279 Pn 22 39.50 -0.8
 Pg 22 55.40
 Sg 23 57.60
 BSF 5.02 272 Pn 22 43.80 -1.1
 Sn 23 39.30
 Sg 24 08.60
 HAU 5.31 274 Pn 22 24.75 -24.2X
 Sn 23 47.80
 LPG 5.68 248 Pn 22 55.00 0.6
 LBF 7.03 266 Pn 23 11.90 -1.2
 AVF 7.48 266 Pn 23 18.00 -1.4
 BGF 7.88 265 Pn 23 23.80 -1.1
 TCF 8.37 264 Pn 23 29.60 -2.3
 S.D. = 1.3 on 33 of 41 obs.

? JUN 01, 1990 20h 39m 57.36 ± 1.86s
 13.936 N ± 24.0km 93.202 W ± 13.4km
 DEPTH = 33.0km (normal)
 4.6mb (4 obs.)
 OFF COAST OF CHIAPAS, MEXICO (68)

TPX 1.33 43 iP 40 19.00 -0.7
 (S) 40 41.50
 SCX 2.84 11 iP 40 42.20 0.9
 iS 41 14.50
 PSM 3.28 327 (P) 41 28.20 40.5X
 OXX 4.62 313 iP 41 07.00 0.2
 (S) 42 13.30
 PPM 7.29 315 (P) 41 51.00 6.3X
 LRM 35.70 337 eP 46 55.20 0.2
 YKA 50.83 347 eP 48 54.80 -1.7
 0.8s 6.40nm 4.6mb
 MBC 63.84 353 eP 50 28.00 -0.4
 0.9s 5.00nm 4.6mb
 NB2 84.76 28 P 52 30.60 1.2
 0.9s 2.00nm 4.3mb
 APO 86.18 28 eP 52 36.70 0.3
 1.0s 6.40nm 4.8mb
 S.D. = 1.1 on 8 of 10 obs.

JUN 01, 1990 21h 46m 18.73 ± 1.01s
 45.851 N ± 7.7km 26.639 E ± 8.7km
 DEPTH = 105.1 ± 12.1 km

ROMANIA (358)
 VRI 0.06 73 iPc 46 32.50 -0.3
 BRD 0.44 139 iPc 46 35.00 0.1
 MLR 0.61 234 ePd 46 36.00 -0.2

01d 21h

ISR 0.72 185 iPd 46 37.00 -0.1
 PPE 0.77 61 ePd 46 39.00 1.5
 CLI 0.83 32 iPc 46 38.00 -0.1
 PTI 1.10 351 eP 46 30.00 -10.9X
 CFR 1.26 121 iPc 46 42.00 -0.7
 CMP 1.27 243 iPd 46 46.00 3.1X
 IAS 1.49 25 iPc 46 45.00 -0.4
 TLB 1.60 142 iPd 46 46.00 -0.9
 PSN 2.43 153 eP 46 58.00 0.3
 PVL 2.79 200 iPd 47 04.00 1.5
 PGB 3.75 209 iP 47 16.00 0.4
 VTS 4.09 218 iPc 47 19.00 -1.3
 KDZ 4.29 192 eP 47 23.00 0.0
 RZN 4.39 199 eP 47 24.00 -0.5
 MMB 4.75 207 eP 47 30.00 0.6

S.D. = 0.8 on 16 of 18 obs.

JUN 01, 1990 21h 52m 06.35 ± 0.87s
 37.693 N ± 7.1km 15.202 E ± 7.6km
 DEPTH = 10.0km (geophysicist)

SICILY (398)

MNO 0.47 301 P 52 16.00 0.1
 eSg 52 22.00
 MSI 0.58 29 P 52 18.60 0.5
 eSg 52 28.40
 MEU 0.63 200 P 52 18.70 -0.4
 eSg 52 31.90
 GIB 0.98 288 P 52 24.50 -0.5
 eSg 52 40.40
 FAI 1.28 252 P 52 30.90 0.8
 TDS 2.15 24 P 52 43.10 0.3
 MGR 2.46 6 P 52 46.20 -0.9

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

JUN 01, 1990 22h 22m 06.15 ± 0.50s
 51.355 N ± 11.4km 176.890 W ± 6.4km
 DEPTH = 33.0km (normal)
 4.7mb (16 obs.) 4.5Msz (2 obs.)

ANDREANOF ISLANDS, ALEUTIAN IS. (7)
Felt (V) an Adak.

ADK 0.54 14 iPc 22 18.40 1.0
 SMY 5.73 287 eP 23 34.50 3.5
 SDN 10.58 61 eP 24 38.20 -0.1
 SVW 15.26 42 eP 25 45.10 4.5X
 TTA 16.11 36 eP 25 54.00 2.4
 PMS 17.97 46 eP 26 16.00 1.2
 IMA 18.86 30 eP 26 27.00 1.3
 1.0s 18.80nm 4.3mb
 FBA 20.24 37 e(P) 26 39.30 -1.5
 0.8s 21.55nm 4.5mb
 SIT 24.67 60 eP 27 26.00 1.3
 0.8s 27.59nm 4.9mb
 INK 26.80 34 eP 27 43.00 -1.5
 MBC 33.19 22 eP 28 40.50 -0.7
 0.5s 3.00nm 4.5mb
 MAT 34.97 263 eP 28 58.00 1.0
 1.0s 23.00nm 5.1mb
 PNT 35.82 70 eP 29 05.00 0.9
 0.4s 9.00nm 5.1mb
 CN2 38.73 282 eP 29 30.00 1.4
 Z 20s 0.60um 4.4Msz
 esP 29 45.00
 SES 40.29 65 eP 29 41.00 -0.5
 SNY 40.96 281 Pd 29 47.80 0.8
 1.2s 100.00nm 5.4mb
 KVN 42.12 83 eP 29 58.00 1.2
 TNP 43.25 84 eP 30 07.00 0.9
 0.8s 4.17nm 4.2mb
 DL2 43.88 278 eP 30 10.50 -0.4
 BJI 46.55 283 eP 30 32.50 0.4
 1.0s 24.00nm 5.1mb
 Z 24s 0.38um 4.3MszX
 TIA 48.35 279 eP 30 45.50 -0.9
 HHC 48.84 287 eP 30 51.00 0.8
 SSE 49.19 271 Pc 30 53.50 0.6
 1.0s 10.00nm 4.8mb
 BTO 49.92 288 eP 30 57.00 -1.5
 TIY 50.28 283 eP 31 02.00 0.8
 Z 30s 0.90um 4.6MszX
 ALO 51.93 80 eP 31 13.00 -1.0
 1.0s 3.25nm 4.2mb
 FRB 52.42 32 eP 31 14.00 -2.9
 WHN 53.85 275 eP 31 27.50 -0.4
 LZH 56.54 287 Pd 31 47.00 -0.7
 1.5s 44.00nm 5.3mb

Z 22s 0.50um 4.6Msz
 pP 31 56.00 29kmX
 sP 32 05.00
 GTA 56.68 293 P 31 47.40 -1.2
 CD2 60.15 283 eP 32 12.10 -0.7
 GYA 61.51 277 P 32 22.00 -0.2
 NB2 67.77 356 P 32 58.70 -3.5X
 0.9s 1.10nm 4.0mb
 HFS 68.54 354 eP 33 04.20 -2.7
 0.4s 0.60nm 4.0mb
 GUN 72.97 293 P 33 33.20 -1.4
 PKI 73.50 293 P 33 36.20 -1.4
 GKN 73.61 294 P 33 36.70 -1.4
 MTN 78.19 232 eP 34 04.70 1.0
 0.7s 25.00nm 5.3mb
 KHC 79.49 353 eP 34 11.00 0.5
 QUE 81.35 308 eP 34 20.40 -0.5
 WB5 82.77 225 eP 34 28.10 0.1
 WRA 82.84 225 Pd 34 28.90 0.6
 0.8s 4.90nm 4.6mb
 HYB 85.34 292 eP 34 41.00 -0.2
 MAW 147.20 218 ePKP 41 47.00 3.4X
 1.0s 26.00nm
 JOZ 147.64 306 ePKP 41 46.00 0.4
 SWZ 150.58 317 iPKPd 41 43.00 -7.4X
 0.8s 63.43nm

S.D. = 1.3 on 42 of 46 obs.

JUN 01, 1990 23h 09m 43.09 ± 0.59s
 41.165 N ± 9.1km 14.767 E ± 9.7km
 DEPTH = 10.0km (geophysicist)

SOUTHERN ITALY (390)

DUI 0.55 335 P 09 54.00 -0.2
 eSg 10 03.10
 SGO 0.73 146 P 09 58.00 0.6
 eSg 10 10.00
 SDI 0.90 307 P 10 00.50 0.2
 MGR 1.19 149 P 10 04.70 -0.6
 eSg 10 22.70
 AZI 1.29 310 P 10 07.00 0.0
 ORI 1.69 130 P 10 12.70 -0.1
 OHR 4.56 89 e(Pn) 10 53.00 0.1

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

JUN 01, 1990 23h 26m 20.41 ± 0.80s
 10.021 S ± 12.0km 108.128 E ± 14.8km
 DEPTH = 33.0km (normal)
 4.9mb (5 obs.)

SOUTH OF JAVA (282)

TRT 5.01 63 iPd 27 34.80 -0.5
 iS 28 15.60
 NANU 14.34 151 eP 29 41.50 -1.7
 eS 32 13.50
 MBL 15.79 136 eP 30 04.00 1.9
 eS 32 44.00
 WRA 27.14 114 Pc 32 14.20 11.5X
 0.8s 6.20nm
 WB5 27.14 114 eP 32 07.00 4.2X
 e 37 26.50
 CHG 30.05 342 ePc 32 28.90 -0.1
 0.7s 11.13nm 4.8mb
 CHTO 30.05 342 iP 32 28.00 -0.9
 1.2s 23.26nm 4.9mb
 pP 32 37.00 31kmX
 sP 32 42.90
 KMI 35.32 352 eP 33 16.00 1.0
 PKI 43.37 330 P 34 22.20 0.2
 GUN 43.43 331 P 34 22.60 0.2
 0.7s 24.00nm 5.1mb
 GKN 44.11 330 P 34 27.60 -0.1
 0.9s 20.00nm 4.9mb
 LZH 46.04 355 P 34 31.00 -12.0X
 pP 34 43.00 43kmX
 sP 34 52.00
 BJI 50.36 8 eP 35 23.50 7.2X
 1.2s 8.00nm 4.6mb
 QUE 56.26 317 eP 36 04.90 4.4X
 SIV 152.03 203 PKP 46 14.00 6.0X

S.D. = 1.2 on 9 of 15 obs.

JUN 02, 1990 00h 16m 53.51 ± 4.52s
 31.482 S ± 18.7km 68.657 W ± 17.9km
 DEPTH = 90.4 ± 42.7 km

SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.12 268 iPd 17 07.00 0.1
 RTLL 0.22 47 iPc 17 07.00 -0.1
 CFA 0.38 109 iPc 17 07.70 0.0
 eS 17 19.90
 RTCV 0.39 165 iPd 17 07.80 0.0
 RTBS 0.70 255 ePd 17 10.20 -0.1
 S 17 24.00
 RTRS 1.48 332 iPd 17 19.40 0.0
 eS 17 39.80

S.D. = 0.1 on 6 of 6 obs.

JUN 02, 1990 00h 32m 35.02 ± 0.15s
 32.434 N ± 3.6km 92.802 E ± 2.5km
 DEPTH = 12.9km (10 depth phases)
 5.6mb (57 obs.) 4.6Msz (2 obs.)

TIBET (306)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 11S, 22C

Centroid Location:

Origin Time 00:32:42.8 0.7

Lat 32.20N 0.12 Lon 93.28E 0.12

Dep 15.0 FIX Half-duration 1.7

Moment Tensor: Scale 10¹⁶ Nm

Mrr=-5.98 0.60 Mtt= 0.73 0.65

Mff= 5.25 0.70 Mrt=-5.21 1.69

Mrf= 3.14 2.37 Mtf= 2.04 0.61

Principal Axes:

T Val= 6.21 Plg= 9 Azm=282

N 3.54 30 187

P -9.75 58 27

Best Double Couple: Mo=8.0*10¹⁶

NP1: Strike= 43 Dip=44 Slip=-44

NP2: 168 61 -125

LSA 3.07 208 Pgd 33 30.80 6.3X
 Sg 34 13.80
 GTA 8.99 37 iPd 34 48.20 0.7
 1.2s 300.00nm 6.5mb
 Z 12s 12.10um
 E 10s 7.60um
 S 36 30.00
 CD2 9.46 96 P 34 54.50 0.5
 N 10s 26.70um
 S 36 40.00
 LZH 9.84 65 eP 34 59.00 -0.3
 N 10s 15.60um
 S 36 48.00
 KMI 11.35 127 iPc 35 18.00 -2.1
 1.5s 200.00nm 6.2mb
 S 37 34.00
 WMO 12.05 342 P 35 28.00 -1.4
 Z 13s 14.30um
 N 10s 9.20um
 E 11s 12.10um
 GYA 13.46 113 Pc 35 46.40 -1.9
 1.0s 190.00nm 6.0mb
 N 10s 5.20um
 E 10s 8.52um
 S 48 26.40
 XAN 13.59 79 Pd 35 49.00 -0.9
 S 38 22.00
 CHTO 14.64 156 iP 36 02.30 -1.4
 KSH 15.31 302 P 36 14.50 2.0
 pP 36 22.10
 S 39 08.00
 BDT 16.13 158 eP 36 22.90 -0.1
 0.9s 38.10nm 4.5mb X
 TIY 16.90 66 P 36 32.40 -0.4
 Z 11s 5.20um
 N 12s 6.00um
 S 39 36.00
 sS 39 48.00
 HHC 17.22 56 Pd 36 39.00 2.2
 Z 16s 7.10um
 N 10s 4.50um
 E 10s 5.60um
 S 39 52.00
 NST 17.97 157 eP 36 47.20 1.0
 WHN 18.47 90 eP 36 50.50 -1.8
 Z 14s 2.90um
 pP 36 58.00
 iS 40 15.00
 HYB 19.73 224 eP 37 06.00 -1.5
 0.8s 85.70nm 5.1mb
 e 38 08.00
 BJI 20.29 61 eP 37 13.00 -0.1

	1.5s	480.00nm		5.6mb			1.0s	100.00nm		5.9mb	DOI	65.18	308 P	43 16.20	-1.9
Z	12s	4.58um		5.1MszX				i	42 39.00	14km	SBF	65.29	307 eP	43 18.50	-0.3
N	12s	5.40um				PRU	58.75	312 Pd	42 35.00	0.2		1.0s	64.00nm		5.8mb
E	13s	2.55um					1.5s	44.60nm		5.3mb	BNI	65.36	309 Pd	43 18.00	-0.5
QIZ	20.30	127 P	eS	41 00.00			Z	14s	0.80um	5.0MszX	WB5	65.48	137 eP	43 20.00	-0.1
			sP	37 20.00	-0.1		N	12s	1.30um		WRA	65.51	137 Pc	43 20.00	-0.3
			eS	40 53.00			E	12s	0.50um			0.6s	22.10nm		5.5mb
GZH	20.40	112 P	eS	37 13.70	-0.6	BRG	58.90	313 iPd	42 38.40	11km	FRF	65.94	307 eP	43 22.20	-0.6
Z	10s	3.90um	S	40 50.00			1.4s	60.00nm		5.5mb		1.3s	50.55nm		5.5mb
TIA	20.42	73 P		37 14.10	-0.5			i	42 40.10	14km	LMR	66.12	307 eP	43 23.50	-0.5
Z	14s	2.60um			4.7MszX	BRN	58.97	315 eP	42 37.50	1.2		1.0s	64.00nm		5.8mb
N	12s	5.10um				CLL	59.37	314 iPd	42 39.20	0.2	LOR	66.33	312 iPd	43 24.60	-0.7
E	12s	3.10um	S	41 00.00			1.7s	71.00nm		5.5mb		1.2s	38.70nm		5.5mb
NNT	20.75	161 iPd		37 18.00	-0.1	KHC	59.58	312 iPd	42 41.00	0.4	LBF	66.37	312 iPd	43 25.10	-0.5
HKC	21.46	113 iP	IS	41 24.00	1.3		1.4s	29.00nm		5.2mb	SMF	66.58	311 iPd	43 26.40	-0.5
						RIY	60.12	307 eP	42 43.10	-1.1		1.2s	78.85nm		5.8mb
POO	21.96	235 iPc		37 32.10	1.8	MOX	60.39	314 eP	42 46.00	-0.1	WARB	66.62	147 eP	43 27.00	-0.3
NJ2	22.03	84 Pd		37 33.00	2.2		1.6s	74.00nm		5.6mb	SSF	66.63	312 iPd	43 26.80	-0.4
	4.0s	500.00nm			5.3mb X	Z	16s	1.60um		5.3MszX		1.2s	62.50nm		5.7mb
N	11s	3.50um				TRI	60.43	308 ePd	42 50.50	15km	AVF	66.84	312 iPd	43 27.90	-0.6
E	12s	1.20um	S	41 32.00		TDS	60.52	300 P	42 45.60	-0.7		1.2s	75.85nm		5.7mb
QUE	22.19	271 eP	e(S)	37 33.10	0.4	FVI	60.82	309 P	42 48.20	-0.8	EKA	67.18	322 P	43 31.00	0.4
	1.6s	321.67nm			5.5mb	GRF	60.90	313 iPd	42 50.30	0.7		1.1s	39.80nm		5.5mb
QZH	23.78	102 eP		37 52.70	4.6X		1.4s	111.00nm		5.8mb	BCF	67.25	312 iPd	43 30.90	-0.3
Z	14s	3.60um			5.0MszX	Z	19s	0.70um		4.8Msz	MAF	67.56	311 iPd	43 33.60	0.4
E	14s	3.60um	S	42 06.00		FUR	61.32	311 iPd	42 53.30	0.8	TCF	67.76	311 iPd	43 34.60	0.2
SSE	24.14	86 P		37 53.50	1.9	SOTA	61.65	310 iPd	42 54.20	-0.7	LSF	68.21	312 iPd	43 36.60	-0.6
	1.0s	160.00nm			5.6mb		1.5s	100.00nm		5.8mb		1.2s	46.10nm		5.5mb
Z	12s	3.20um	ePcS	45 10.00				i	43 04.50	34kmX	LDF	68.25	314 eP	43 37.20	-0.2
DL2	24.23	66 Pd		37 53.00	0.6	CTI	61.73	309 P	42 54.60	-0.8	FLN	68.40	315 eP	43 38.00	-0.3
	1.0s	100.00nm			5.4mb	RSM	61.87	306 P	42 56.70	0.5	CAF	68.41	310 iPd	43 39.00	0.5
Z	16s	2.10um			4.7MszX	ASS	62.01	305 P	42 58.50	1.2		1.1s	45.20nm		5.6mb
N	12s	2.70um				MNS	62.23	304 P	42 57.80	-0.9	RJF	68.61	311 iPd	43 40.30	0.6
SNY	26.15	60 iPd		38 10.00	-0.6	SFI	62.29	306 P	42 59.50	0.6	GRR	68.78	314 eP	43 48.50	-0.2
	1.2s	200.00nm			5.7mb	PGD	62.39	306 P	43 00.70	0.8		1.1s	48.85nm		5.6mb
Z	17s	1.80um			4.7MszX	RDP	62.41	304 P	43 03.50	3.6X	LPO	69.08	310 iPd	43 43.00	0.4
N	10s	2.30um				OSS	62.51	310 ePd	43 00.20	-0.5		1.2s	59.50nm		5.6mb
E	12s	1.20um	iS	42 42.00		SAL	62.62	308 P	42 59.00	-2.1	MFF	69.11	313 eP	43 42.60	-0.2
			sS	42 54.00		WIT	62.69	317 eP	43 02.50	1.0		1.1s	39.05nm		5.5mb
MAIO	27.68	287 iPd		38 25.80	1.0	SAX	62.85	310 ePd	43 02.40	-0.6	LFF	69.26	311 iPd	43 44.20	0.5
			eS	43 16.00		WTS	62.87	316 eP	43 03.00	0.3		1.1s	56.15nm		5.6mb
CN2	27.91	57 iPd		38 26.00	-0.6		1.2s	50.00nm		5.6mb	IMA	69.53	24 iP	43 45.00	-0.2
	1.0s	100.00nm			5.5mb	MME	62.98	307 P	43 04.40	0.6		1.1s	23.44nm		5.3mb
Z	13s	2.60um			5.0MszX	BDI	63.09	307 P	43 03.90	-0.5	MBC	69.70	8 eP	43 46.00	0.1
N	13s	4.80um				MDI	63.10	309 P	43 03.30	-1.0	EPF	70.35	309 iPd	43 49.80	-0.7
E	13s	1.30um	pP	38 33.00	25kmX	LLS	63.20	310 ePd	43 04.70	-0.5		1.3s	21.65nm		5.1mb
IPM	28.76	163 ePc		38 36.00	1.5	SLE	63.22	311 eP	43 05.10	0.0	TTA	70.44	27 eP	43 50.90	0.2
MDJ	30.99	56 eP		38 53.50	-0.6	PII	63.26	306 P	43 04.50	-0.9		1.2s	32.20nm		5.3mb
N	12s	5.20um	S	43 08.00		GWF	63.36	313 P	43 05.91	-0.2	SVW	71.61	28 eP	43 58.50	0.8
KKM	34.15	135 ePd		39 24.00	1.9	ZLA	63.38	311 ePd	43 05.80	-0.5	FBA	72.20	23 eP	44 00.70	-0.5
	1.0s	76.10nm			5.6mb	FEL	63.49	311 P	43 06.58	-0.5		1.0s	68.75nm		5.7mb
MAT	37.39	71 (P)		39 50.00	0.7	TMA	63.54	309 ePd	43 06.50	-1.0	ECRI	72.41	310 eP	44 04.00	1.1
Z	20s	0.71um			4.5Msz	BOB	63.62	308 P	43 08.00	0.1	ETOR	72.95	308 eP	44 06.20	0.1
TAB	38.06	292 eP		39 57.00	1.9	VAI	63.69	309 P	43 06.90	-1.3	PMR	73.83	26 iP	44 10.70	0.0
SUF	51.09	327 iP		41 39.50	0.6	WLS	63.72	312 P	43 08.12	-0.4		1.1s	76.56nm		5.7mb
	0.5s	17.00nm			5.2mb	CDF	63.77	312 P	43 08.43	-0.4	INK	73.84	16 iPc	44 11.00	0.4
SOD	51.36	333 iP		41 41.30	0.4	ENN	63.80	315 eP	43 09.00	0.2		1.0s	34.00nm		5.3mb
KEV	51.61	336 eP		41 44.00	1.3	MEM	63.80	315 Pc	43 13.50	15km	GUD	74.43	308 eP	44 15.20	0.4
MLR	52.18	305 iPc		41 59.00	11.4X			e	43 09.50	0.6	TOA	74.57	25 eP	44 16.10	1.0
BZS	55.14	306 eP		42 09.00	-0.2	ECH	63.91	312 P	43 09.20	-0.5	TOL	74.74	308 iPc	44 17.50	1.1
SKO	56.14	302 iP		42 16.50	0.0	BBS	63.95	311 P	43 09.23	-0.8		1.2s	187.50nm		6.0mb
						MOF	64.05	312 P	43 10.55	-0.2	EBAN	75.41	306 eP	44 20.60	0.3
BUD	56.47	309 iP		42 18.50	-0.2	MMK	64.15	310 eP	43 11.60	0.0	AFC	75.69	305 e(P)	44 22.00	-0.1
KBS	56.66	347 eP		42 20.00	0.2	BSF	64.20	312 P	43 11.62	-0.6	EPLA	75.99	309 eP	44 25.00	1.4
OHR	56.84	301 eP		42 19.30	-2.2	ORO	64.29	309 P	43 11.00	-1.3	EPRU	77.00	306 eP	44 29.50	0.2
SRO	56.86	309 iP		42 22.60	1.1	LOMF	64.42	311 P	43 11.96	-1.2	KRI	77.78	241 eP	44 36.00	2.1
HFS	57.18	324 eP		42 23.10	-0.5	HAU	64.49	312 eP	43 13.20	-0.3	BUL	80.61	239 iPc	44 48.90	-0.3
	1.4s	123.90nm			5.7mb		1.2s	23.80nm		5.2mb	YKA	82.87	12 eP	44 59.20	-1.0
Z	16s	1.42um			5.2MszX	DIX	64.50	310 ePd	43 14.20	0.3	FRB	83.01	352 eP	45 01.00	0.2
			LR	05 57.00		PGF	64.72	306 eP	43 14.50	-0.6	FFC	92.27	9 iPd	45 45.60	-0.2
KSP	57.46	313 iPd		42 25.80	0.0		1.2s	38.70nm		5.5mb		1.1s	22.00nm		5.5mb
ZST	57.56	310 eP		42 26.20	-0.3	EMS	64.82	310 ePd	43 15.70	-0.1	KIC	92.96	279 P	45 52.80	3.2X
SOP	58.04	309 iPd		42 31.80	2.0	DOU	64.83	315 Pc	43 15.70	0.1	PNT	93.64	21 eP	45 53.00	0.7
NB2	58.23	326 P		42 30.80	-0.3			e	43 27.30	39kmX	ITR	129.17	286 e(PKP)	51 42.00	-3.2X
	0.6s	9.90nm			5.0mb	SNF	64.86	315 iPd	43 15.87	0.1	SIV	151.21	298 iPKPc	52 24.20	0.2
COP	58.67	319 iPd		42 34.60	0.5	LPG	65.14	309 iPd	43 18.40	0.3		i	52 30.00		
							1.2s	95.20nm		5.8mb	ZOBO	156.38	308 PKP	52 32.20	0.3
											LPB	156.55	308 PKP	52 28.00	-3.9X

02d 00h

S.D. = 0.9 on 155 of 162 obs.

JUN 02, 1990 02h 35m 17.09 ± 0.77s
 44.181 N ± 6.2km 6.985 E ± 6.8km
 DEPTH = 10.0km (geophysicist)

FRANCE (538)
 ML 2.0 (LDG), 1.7 (GEN).

STV	0.25	75	P	35	22.49	0.0
			S	35	26.59	
ENR	0.32	82	P	35	23.72	0.0
			S	35	28.33	
PZZ	0.33	14	P	35	24.02	0.0
			S	35	28.84	
SBF	0.45	134	Pg	35	26.50	0.1
			Sg	35	32.80	
FRF	0.67	202	Pg	35	29.80	-0.6
			Sg	35	38.90	
LRG	0.86	212	Pg	35	34.40	0.8
LMR	0.91	202	Pg	35	34.20	-0.4

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

& JUN 02, 1990 02h 36m 09.29s
 62.293 N 149.952 W
 DEPTH = 10.0km

CENTRAL ALASKA (1)
 <AGS-P>.

CUT	0.19	307	iP	36	13.60	0.2
			eS	36	16.06	
PWA	0.65	177	iP	36	21.78	-0.4
HUR	0.70	12	iP	36	21.87	-1.3
GHO	0.71	137	iP	36	22.37	-1.0
			eS	36	32.98	
PLRM	0.80	151	iP	36	24.42	-0.4
			eS	36	35.61	
SKT	0.80	248	eP	36	24.03	-0.9
SML	0.90	122	iP	36	25.78	-0.9
			eS	36	38.34	
SUA	0.91	205	iP	36	26.23	-0.6
			eS	36	39.44	
PMS	1.07	170	eP	36	28.69	-0.7
			eS	36	42.71	
RND	1.23	24	eP	36	30.98	-1.2
KTH	1.34	341	iP	36	33.31	-0.7
			eS	36	50.53	
NCG	1.37	230	eP	36	33.07	-1.5
CGLM	1.39	226	eP	36	33.69	-1.1
CRP	1.47	226	eP	36	33.82	-2.1
SPU	1.50	223	eP	36	35.50	-0.8
NCA	1.50	100	eP	36	35.42	-0.9
TOA	1.78	94	eP	36	40.00	-0.4
SLKM	1.80	184	eP	36	40.13	-0.4
GLI	1.97	135	eP	36	43.35	0.3
VZW	2.04	126	eP	36	44.41	0.3
KLU	2.07	111	iP	36	43.89	-0.7
VLZ	2.08	122	eP	36	44.47	-0.1
RDT	2.09	215	eP	36	45.24	0.4
PAX	2.18	70	eP	36	43.80	-2.4
SEW	2.21	173	eP	36	47.74	1.2
RED	2.32	217	eP	36	48.86	0.7

26 obs. associated

& JUN 02, 1990 02h 43m 03.00s
 36.840 N 121.582 W

DEPTH = 2.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 2.7 (BRK).

SAO	0.13	124	iP	43	05.60	-0.1
GCC	0.38	300	iPd	43	10.30	-0.3
MHC	0.50	355	iPd	43	13.40	0.3
			i	43	22.20	
ARN	0.51	4	iPc	43	13.40	0.2
PRS	0.54	161	iPd	43	13.20	-0.5
LLA	0.56	113	iPc	43	14.20	0.0
PCC	0.92	316	eP	43	20.00	-1.3
PRI	1.02	133	ePc	43	22.50	-0.5
BKS	1.16	334	iPc	43	25.10	-0.3
BRK	1.16	333	eP	43	24.90	-0.6
ZSP	1.23	334	ePc	43	24.70	-1.8
			i	43	26.70	
			eS	43	44.20	
			i	43	46.10	
PHAM	1.38	136	eP	43	27.30	-2.0
FRI	1.51	84	e(P)	43	29.80	-1.3
			eS	43	48.60	

CMB 1.53 38 ePc 43 30.50 -0.9
 eS 43 49.00
 14 obs. associated

? JUN 02, 1990 03h 25m 34.01 ± 1.98s
 20.790 S ± 17.2km 173.024 E ± 18.7km
 DEPTH = 504.4 ± 17.7 km
 3.9mb (2 obs.)

VANUATU ISLANDS REGION (185)

DZM	6.26	257	iPc	27	14.20	0.1
HBZ	17.37	166	eP	29	07.00	-0.7
PUZ	17.81	166	P	29	12.10	0.0
NOZ	18.29	167	P	29	17.20	0.6
MNG	19.88	174	P	29	31.90	-0.1
KIW	20.07	176	eP	29	33.30	-0.5
CAW	20.33	176	eP	29	35.90	-0.3
TCW	20.39	177	P	29	37.30	0.6
MRW	20.43	176	P	29	37.00	-0.1
WDW	20.48	176	P	29	37.10	-0.5
BLW	20.62	175	P	29	38.40	-0.5
THZ	20.91	180	P	29	42.90	1.3
KHZ	21.57	179	P	29	47.20	-0.4
LTZ	21.94	181	eP	29	51.60	0.6
WB5	36.20	264	eP	31	54.40	-0.4
WRA	36.22	264	Pc	31	54.80	-0.1
	0.3s	1.20nm			3.9mb	
MTN	40.78	274	iPc	32	32.30	0.1
CHTO	82.53	293	iP	37	04.90	0.2
	0.7s	3.02nm			3.9mb	
APD	137.63	345	ePKP	43	54.00	-7.2X
	0.5s	0.60nm				
CLL	145.76	338	iPKP	44	14.50	-1.1
KHC	147.30	335	ePKP	44	19.50	1.2
CDF	150.15	341	ePKP	44	25.90	3.1X
	0.6s	3.60nm				
BCAO	150.35	240	iPKPc	44	30.00	6.0X
	0.5s	3.00nm				
HAU	150.80	342	ePKP	44	27.20	3.5X
	0.6s	5.40nm				
BSF	150.82	341	ePKP	44	27.30	3.5X
	0.6s	3.60nm				
LOR	152.16	344	ePKP	44	30.30	4.7X
SSF	152.44	344	ePKP	44	29.10	3.1X

S.D. = 0.7 on 20 of 27 obs.

& JUN 02, 1990 04h 01m 42.50s
 40.543 N 125.327 W

DEPTH = 5.0km
 OFF COAST OF NORTHERN CALIFORNIA (34)
 <BRK>. ML 2.6 (BRK).

FHC	1.05	75	ePc	02	07.70	-1.1
			e(S)	02	15.70	
WDC	2.12	88	iPd	02	16.90	-2.2
			e(S)	02	42.30	
MIN	2.85	93	ePc	02	26.40	-3.2
			e(S)	02	59.20	
ORV	3.10	107	e(P)	02	30.70	-2.3
			e	02	41.10	
			e(S)	03	02.00	
KVN	5.76	103	eP	03	07.50	-3.4

5 obs. associated

? JUN 02, 1990 04h 46m 33.13 ± 3.00s
 16.104 N ± 9.7km 61.051 W ± 28.6km
 DEPTH = 28.4 ± 11.6 km

LEEWARD ISLANDS (92)
 ML 1.7 (FDF).

SFG	0.20	317	eP	46	39.20	0.0
SEG	0.53	304	eP	46	43.90	0.0
			S	46	49.60	
PAG	0.61	263	eP	46	45.30	0.0
			S	46	52.20	
BBL	0.71	216	eP	46	46.90	0.0
			S	46	56.10	
BPA	1.21	321	eP	46	54.30	0.0
			S	47	09.10	

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

? JUN 02, 1990 04h 57m 08.62 ± 1.48s
 31.645 S ± 9.0km 68.260 W ± 10.9km
 DEPTH = 10.0km (geophysicist)

SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.04	25	iPc	57	10.80	0.0
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RTCV	0.32	220	iPc	57	15.90	-0.3
RTLL	0.36	330	iPd	57	15.10	-1.0
RTCB	0.49	289	iPc	57	18.90	0.4
RTBS	1.02	269	ePd	57	27.80	0.0
			S	57	45.00	
RTRS	1.80	325	ePc	57	40.70	0.9

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

JUN 02, 1990 04h 57m 57.02 ± 0.20s
 1.081 N ± 3.8km 122.776 E ± 5.8km
 DEPTH = 33.8km (5 depth phases)
 5.1mb (16 obs.) 4.9MsZ (12 obs.)

MINAHASSA PENINSULA (265)
 CENTROID, MOMENT TENSOR (HRV)

Date Used: GDSN
 L.P.B.: 14S, 33C
 Centroid Location:

Origin Time 04:58: 0.3 0.4
 Lat 1.59N 0.05 Lon 122.76E 0.06
 Dep 44.8 3.8 Half-duration 2.0
 Moment Tensor: Scale 10¹⁷ Nm
 Mrr= 1.61 0.09 Mtt=-1.13 0.11
 Mff=-0.48 0.15 Mrt=-1.12 0.17
 Mrf= 0.19 0.15 Mtf=-0.37 0.10

Principal Axes:
 T Val= 2.04 Plg=69 Azm=199
 N -0.44 11 78
 P -1.60 18 345

Best Double Couple: Mo=1.8*10¹⁷ Nm
 NP1: Strike= 57 Dip=29 Slip= 66
 NP2: 264 64 102

TSM	5.64	304	iPd	59	21.50	0.8
	0.2s	244.90nm			6.4mb	X
DAV	6.59	25	eP	59	33.00	-1.1
KKM	8.20	307	ePd	59	55.90	-0.8
	0.4s	100.30nm			6.3mb	X
MTN	16.13	149	eP	01	43.30	0.3
KNA	17.74	161	eP	02	04.50	1.3
KGM	19.47	273	ePd	02	24.60	0.4
QIZ	21.88	325	eP	02	48.60	-0.4
	N 17s	2.80um				
IPM	22.00	280	ePd	02	52.00	1.8
	0.9s	43.10nm			4.9mb	
HKC	22.70	339	iP	02	58.00	1.0
	Z 17s	2.70um				
GZH	23.71	338	P	03	06.20	-0.7
	N 16s	1.20um				
	E 15s	1.90um				
		S			07 20.00	
WB5	23.73	152	iPc	03	06.90	-0.3
WRA	23.77	152	Pd	03	08.60	1.0
	0.5s	29.20nm			5.1mb	
ANP	23.99	357	eP	03	05.20	-4.5X
			eS	07	27.20	
QZH	24.06	351	eP	03	10.00	-0.3
	Z 20s	3.70um			4.9MsZ	
	E 20s	2.50um				
		S			07 26.00	
NANU	24.54	196	iPc	03	14.50	-0.4
GUMO	25.15	59	eP	03	50.00	29.1X
			eS	07	46.00	
LOE	26.30	309	eP	03	32.00	0.4
PMG	26.42	114	eP	03	32.50	-0.2
NST	26.63	304	eP	03	38.00	3.4X
QIS	27.09	143	iPc	03	38.20	-0.6
	0.9s	109.00nm			5.5mb	
WARB	27.36	172	iPc	03	40.50	-0.7
MEKA	27.84	188	eP	03	44.10	-1.4
	0.3s	14.00nm			5.1mb	
BDT	28.37	306	eP	03	52.00	1.6
CHG	29.27	308	eP	04	05.90	7.3X
CHTO	29.27	308	eP	03	58.40	-0.1
	1.2s	17.01nm			4.6mb	
GVA	29.61	330	P	04	01.80	0.2
	N 18s	1.70um				
	E 18s	2.30um				
		pP			04 12.40	38km
		S			08 57.00	
SSE	29.89	357	Pc	04	03.00	-0.9
	Z 20s	1.80um			4.7MsZ	
	N 16s	0.90um				
	E 16s	0.90um				
		pP			04 11.80	30km
		ePcS				

WHN	30.37 346 eP	04 08.00 -0.2	N 16s	0.60um		CORSICA (380)	
Z	18s 1.80um	4.8Msz	E 16s	0.50um		ML 2.4 (LDG).	MD 2.1 (STR).
N	18s 3.80um			eS	12 12.00		
E	16s 1.40um			eSS	15 16.00	SBF	0.77 318 Pg
	pP	04 21.50 53kmX		ScS	15 49.00		Sg
	S	09 08.00	BWA	eP	05 55.10 2.2	AURF	0.84 315 Pg
KMI	30.75 323 eP	04 12.50 0.6	GTA	eP	06 00.00 0.6	AUTN	0.87 324 Pg
Z	16s 1.60um	4.8MszX	Z	20s 1.80um	5.0Msz		Sg
	sP	04 25.00	E	16s 1.00um		MVIF	0.94 310 Pg
	S	09 16.00		S	12 28.00		Sg
	iS	09 18.00	CAN	eP	06 01.20 0.3	TOUF	0.97 318 Pg
MRWA	30.82 192 iPd	04 10.60 -1.5	MDJ	eP	06 00.70 -0.4		Sg
0.7s	30.00nm	5.2mb		epP	06 10.00 31km	PGF	0.98 140 Pg
NJ2	31.03 354 eP	04 13.20 -0.7	TOO	eP	06 03.00 1.3		Sg
Z	23s 1.00um	4.4MszX	CNB	eP	06 03.00 0.5	CALN	1.02 297 Pg
N	11s 0.90um		GUN	P	06 06.80 1.1		Sg
	S	09 13.00		0.8s	44.00nm	FRF	1.12 284 Pg
CTA	31.18 134 iPc	04 15.40 -0.1	PKI	44.44 310 P	06 08.00 0.8		Sg
1.1s	35.44nm	5.1mb	GKN	45.24 310 P	06 13.40 -0.1	LMR	1.19 272 Pg
BAL	32.04 190 eP	04 21.00 -1.8		0.8s	21.00nm	LRG	1.31 278 Pg
FORR	32.16 171 eP	04 21.40 -2.4		KOD	45.94 283 eP		Sg
KLB	32.84 188 eP	04 28.00 -1.8		HYB	46.40 293 eP		Sg
MUN	33.46 190 eP	04 33.00 -2.2		DZM	48.41 121 iPc		Sg
CD2	34.71 331 eP	04 45.30 -0.8		POO	51.01 293 eP		Sg
Z	20s 0.90um	4.5Msz	WMO	eP	07 11.00 -0.1		Sg
N	13s 1.00um		Z	18s 1.10um	4.9Msz		Sg
	S	10 13.00		S	14 40.00		Sg
XAN	35.26 340 P	04 49.50 -1.2	QUE	eP	08 04.40 -0.8		Sg
N	14s 1.00um		SNZO	P	08 23.00 -0.7		Sg
E	14s 1.40um			S	17 08.00		Sg
	PP	06 08.00		ScS	18 10.00		Sg
	S	10 21.00	MAIO	eP	08 56.00 0.4		Sg
TIA	35.34 352 P	04 50.40 -1.0		eS	17 56.00		Sg
Z	23s 1.50um	4.7MszX	MAW	iPd	10 03.90 0.1		Sg
N	15s 0.90um		SBA	eP	10 17.50 1.4		Sg
E	15s 0.90um		KRI	eP	11 12.50 1.8		Sg
	eS	10 21.00	INK	eP	11 16.00 3.2X		Sg
RMO	37.14 139 iPc	05 06.20 -0.4	BUL	iPd	11 13.70 -1.2		Sg
0.8s	17.00nm	5.0mb	SLR	iPd	11 15.00 -1.0		Sg
DL2	37.66 359 eP	05 09.00 -1.7	LSZ	iPc	11 16.50 -0.5		Sg
Z	21s 1.20um	4.7Msz		1.0s	11.90nm		Sg
N	18s 1.80um		BLF	eP	11 23.00 -1.0		Sg
TIY	37.68 347 Pc	05 10.70 -0.4	ALQ	ePKP	16 49.00 -0.8		Sg
Z	21s 2.70um	5.0Msz	LNV	ePKP	17 31.00 -1.5		Sg
N	21s 2.90um		LCCH	ePKP	17 36.50 3.4X		Sg
	PP	06 35.00	TACH	ePKP	17 33.00 -0.3		Sg
	S	10 59.50	PCH	ePKP	17 34.20 0.5		Sg
MAT	38.07 20 eP	05 17.00 2.7	SAN	ePKP	17 34.00 0.2		Sg
0.8s	5.97nm	4.5mb	FCH	ePKP	17 36.00 1.4		Sg
Z	20s 1.42um	4.8Msz	PEL	iPKPd	17 35.50 1.2		Sg
	eS	10 40.00		1.0s	50.00nm		Sg
ADE	38.84 159 iPc	05 21.50 0.7	ROCH	ePKP	17 35.50 0.9		Sg
1.0s	198.00nm	5.8mb	JACH	ePKP	17 35.50 0.4		Sg
LZH	39.01 335 Pd	05 22.50 0.1	LPB	PKP	17 54.00 -2.5X		Sg
	pP	05 34.20 43km		e	18 39.00		Sg
BJI	39.24 352 eP	05 23.50 -0.5	ZOBO	PKP	17 58.80 1.9		Sg
1.0s	36.00nm	5.1mb		LR	15 44.00		Sg
Z	24s 2.16um	4.9MszX	CCH	ePKP	18 03.00 6.4X		Sg
E	16s 0.70um			i	18 44.00		Sg
	eS	11 20.00	SIV	PKP	17 59.20 -0.1		Sg
	eSS	14 08.00		i	18 55.60		Sg
BRS	40.42 137 iPc	05 34.50 0.5		S.D. = 1.1 on 84 of 93 obs.			Sg
SNY	40.57 1 eP	05 32.80 -2.1		? JUN 02, 1990 05h 40m 48.26 ± 0.76s			Sg
1.2s	30.00nm	4.9mb		10.057 S ± 17.6km 108.182 E ± 33.4km			Sg
Z	21s 2.50um	5.0Msz		DEPTH = 33.0km (normal)			Sg
N	21s 2.20um			4.8mb (3 obs.)			Sg
E	21s 1.10um			SOUTH OF JAVA (282)			Sg
	sP	05 46.00		NANU	14.29 151 eP	44 10.20 -0.1	
HHC	40.87 347 Pc	05 38.00 0.4			eS	47 09.00	
Z	18s 1.80um	5.0Msz		WB5	27.08 114 eP	46 36.00 6.0X	
N	18s 1.70um			CHG	30.10 342 eP	46 56.50 -0.7	
E	18s 1.30um				0.9s	13.24nm	4.7mb
	S	11 50.00		CHTO	30.10 342 eP	46 56.60 -0.6	
BTO	41.00 345 P	05 38.00 -0.7			1.1s	17.96nm	4.8mb
N	19s 2.50um			PKI	43.43 330 P	48 50.40 0.1	
E	19s 2.00um			GUN	43.48 331 P	48 51.20 0.5	
	pP	05 46.00 27km			0.6s	21.00nm	5.1mb
	PP	07 17.00		GKN	44.17 330 P	48 56.40 0.4	
	S	11 50.00		LZH	46.08 355 P	49 11.00 -0.1	
	eSS	14 49.00		BJI	50.39 8 eP	49 45.00 0.6	
LSA	41.41 316 eP	05 44.80 2.2			S.D. = 0.6 on 8 of 9 obs.		
	S	11 56.50		JUN 02, 1990 05h 57m 02.23 ± 0.76s			
COO	41.94 141 iPc	05 48.60 2.1		43.294 N ± 7.7km 8.144 E ± 7.8km			
BFD	42.25 156 eP	05 48.70 -0.1		DEPTH = 10.0km (geophysicist)			
0.8s	38.00nm	5.2mb					
CN2	42.60 3 eP	05 52.00 0.4					
Z	22s 1.60um	4.9Msz					

FCH 5.93 169 eP 37 45.50 1.2
 TACH 6.17 175 eP 37 46.50 -0.9
 PCH 6.18 172 eP 37 55.00 7.3X
 e 39 05.50
 LNV 6.45 179 eP 37 46.00 -5.3X
 LPB 11.37 17 P 39 13.00 13.0X
 ZOBO 11.62 17 P 39 09.00 5.5X
 S.D. = 1.0 on 11 of 17 obs.

* JUN 02, 1990 08h 49m 58.09s
 64.566 N 152.426 W
 DEPTH = 25.1km
 CENTRAL ALASKA (1)
 <AGS-P>

KTH 1.21 146 eP 50 18.60 -1.0
 eS 50 35.73
 NEA 1.45 88 eP 50 21.94 -0.9
 eS 50 38.59
 IMA 1.60 341 eP 50 24.95 -0.2
 MCK 1.74 117 eP 50 27.42 0.3
 WRH 1.88 91 eP 50 28.65 -0.4
 RND 1.96 125 eP 50 31.93 1.6
 CCB 1.99 86 eP 50 28.49 -2.2
 eS 50 54.84
 FBA 2.02 78 eP 50 30.28 -0.8
 HDA 2.37 91 eP 50 38.83 2.7
 SKT 2.63 171 eP 50 39.53 -0.3
 PWA 3.15 157 eP 50 46.94 -0.2
 NCG 3.18 178 eP 50 47.57 -0.1
 GHO 3.22 149 eP 50 47.00 -1.3
 PMS 3.58 157 eP 50 53.87 0.5
 14 obs. associated

* JUN 02, 1990 09h 16m 58.64±1.88s
 37.688 N ±12.2km 20.865 E ±17.2km
 DEPTH = 10.0km (geophysicist)
 IONIAN SEA (399)
 ML 3.6 (ATH).

VLS 0.53 336 ePg 17 09.40 -0.1
 eSg 17 18.50
 ITM 0.99 121 ePg 17 16.00 -1.4
 eSg 17 33.00
 VLI 1.92 120 ePn 17 33.00 1.4
 KEK 2.19 338 ePg 17 43.50 7.9X
 ATH 2.28 82 ePb 17 42.00 5.2X
 eSg 18 15.00
 NEO 2.46 48 ePn 17 40.00 0.6
 OHR 3.42 359 ePn 17 57.00 3.9X
 VAY 3.86 19 ePn 17 59.20 -0.1
 SKO 4.30 6 ePn 18 01.00 -4.6X
 MMB 4.48 29 ePd 18 08.00 -0.1
 RZN 4.98 35 iPc 18 15.00 -0.3
 S.D. = 1.0 on 7 of 11 obs.

? JUN 02, 1990 10h 17m 55.12±4.34s
 0.326 S ±11.3km 78.981 W ±28.6km
 DEPTH = 10.0km (geophysicist)
 ECUADOR (107)

GGP 0.41 69 iPd 18 04.00 0.2
 eS 18 09.60
 QTO 0.47 75 eP 18 04.60 -0.1
 IS 18 10.70
 QUR 0.48 71 iPd 18 04.80 -0.1
 IS 18 11.80
 VC1 0.66 118 P 18 08.60 0.0
 IS 18 19.20
 COTA 0.92 44 P 18 13.00 -0.1
 IS 18 26.00
 CAYA 1.08 68 P 18 15.80 0.1
 IS 18 30.70
 S.D. = 0.2 on 6 of 6 obs.

* JUN 02, 1990 12h 13m 29.82±2.61s
 24.122 N ±12.9km 121.862 E ±20.8km
 DEPTH = 10.0km (geophysicist)
 TAIWAN (244)

TWD 0.25 260 iPc 13 34.90 -0.2
 TWC 0.49 359 iPd 13 39.10 -0.6
 eS 13 46.50
 TWQ 0.95 279 ePc 13 47.90 0.0
 TWZ 1.00 345 ePc 13 49.10 0.3
 eS 14 03.10
 ANP 1.10 343 IP 13 51.00 0.4

eS 13 55.00
 TWK 1.52 236 ePc 13 57.20 0.1
 S.D. = 0.4 on 6 of 6 obs.
 ? JUN 02, 1990 12h 39m 02.42±1.20s
 8.122 N ±19.2km 83.401 W ±17.6km
 DEPTH = 33.0km (normal)
 4.5mb (3 obs.)

COSTA RICA (78)

DVD 0.99 72 iPd 39 20.00 0.0
 S 39 33.50
 UPA 3.92 77 iPc 40 10.00 8.2X
 1.0s 100.00nm
 S 41 04.00
 SIV 32.60 137 P 45 33.40 0.0
 MBC 70.85 351 eP 50 17.50 0.0
 0.8s 5.00nm 4.6mb
 NB2 85.19 29 P 51 37.30 0.7
 0.9s 2.80nm 4.5mb
 HFS 86.54 30 eP 51 42.60 -0.7
 0.7s 1.60nm 4.4mb
 WRA 141.64 248 PKPc 58 28.10 -5.0X
 0.8s 2.50nm
 MTN 145.74 259 iPcPd 58 42.40 2.2X
 0.7s 25.00nm
 S.D. = 0.7 on 5 of 8 obs.

? JUN 02, 1990 13h 02m 04.96±8.72s
 51.696 N ±51.2km 16.328 E ±53.5km
 DEPTH = 10.0km (geophysicist)

POLAND (548)
 ML 3.6 (VKA).

KSP 0.85 181 iP 02 21.60 0.2
 IS 02 30.80
 BRG 1.71 242 iPg 02 35.90 1.0
 ISg 02 55.70
 PRU 2.05 214 ePn 02 39.80 -0.1
 Pg 02 41.60
 eSn 02 58.50
 Sg 03 05.00
 CLL 2.11 261 iPn 02 40.80 0.0
 iPg 02 43.80
 KHC 3.11 215 Pn 02 54.50 -0.5
 ISg 03 09.40
 ePg 03 00.00
 Sn 03 30.00
 Sg 03 41.00
 HOF 3.13 246 ePn 02 55.10 -0.2
 MOX 3.15 252 ePn 02 55.00 -0.5
 ePg 03 03.00
 eSg 03 43.00
 VKA 3.44 180 eP 03 05.50 5.9X
 iPg 03 09.30
 ISg 03 53.40
 ZST 3.54 172 eP 03 46.80 45.7X
 e 03 55.60
 GRF 3.82 240 e(Pg) 03 05.10 0.1
 eSg 04 02.60
 S.D. = 0.6 on 8 of 10 obs.

* JUN 02, 1990 13h 58m 18.10s
 41.203 N 119.847 W
 DEPTH = 10.0km

NEVADA (37)
 <BRK>. ML 3.1 (BRK).

MIN 1.59 238 ePc 58 46.50 0.1
 IS 59 07.10
 ORV 2.07 218 e(P) 58 53.70 0.3
 e(S) 59 19.90
 WDC 2.13 254 iPd 58 53.80 -0.4
 eS 59 22.30
 KVN 2.53 148 eP 59 02.50 2.4
 4 obs. associated

? JUN 02, 1990 14h 20m 18.42±3.74s
 31.218 S ±13.8km 68.322 W ±24.2km
 DEPTH = 76.1 ± 34.0 km
 SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.17 229 iPc 20 30.00 -0.1
 CFA 0.39 170 iPd 20 31.50 0.4
 eS 20 42.40
 ZON 0.45 223 eP 20 31.00 -0.6
 eS 20 42.00

RTCB 0.49 237 iPd 20 32.50 0.5
 RTCV 0.67 196 ePd 20 33.40 -0.3
 (S) 20 44.00
 RTBS 1.06 245 eP 20 38.40 0.1
 S 20 54.00
 RTRS 1.43 317 iPc 20 43.00 -0.1
 eS 21 02.80
 S.D. = 0.5 on 7 of 7 obs.

JUN 02, 1990 14h 33m 11.50±0.34s
 46.581 N ± 3.3km 1.552 E ± 3.1km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 3.5 (LDG), 3.5 (STR).

LSF 0.33 183 Pg 33 17.70 -0.7
 TCF 0.54 123 Pg 33 22.20 -0.3
 MAF 0.79 117 Pg 33 27.10 0.2
 Sg 33 36.80
 BGF 0.89 91 Pg 33 29.30 0.7
 MFF 1.17 272 Pn 33 33.50 0.1
 Pg 33 34.30
 Sg 33 48.40
 AVF 1.26 80 Pg 33 35.60 0.8
 Sg 33 52.00
 RJF 1.28 181 Pn 33 34.50 -0.7
 Pg 33 35.00
 Sg 33 49.80
 PYM 1.31 129 Pg 33 36.00 0.2
 Sg 33 52.28
 SSF 1.43 70 Pg 33 38.30 0.9
 Sg 33 57.30
 PLDF 1.56 112 Pn 33 39.36 0.0
 Pg 33 41.16
 Sg 34 00.44
 SMF 1.58 87 Pn 33 39.80 0.2
 Pg 33 41.60
 Sg 34 01.00
 CAF 1.69 168 Pn 33 42.40 1.1
 Pg 33 44.00
 Sn 33 58.60
 Sg 34 02.80
 LBF 1.71 76 Pn 33 42.10 0.5
 Pg 33 44.50
 Sn 34 01.40
 Sg 34 06.20
 LOR 1.72 66 Pn 33 42.20 0.5
 Pg 33 44.50
 Sg 34 06.20
 LFF 1.74 199 Pn 33 42.80 0.9
 Pg 33 43.60
 Sg 34 05.30
 LBL 1.79 138 Pn 33 42.63 0.0
 Pg 33 44.29
 Sg 34 08.06
 LPO 1.92 188 Pn 33 44.20 -0.3
 Pg 33 46.90
 Sg 34 09.80
 LPF 2.28 310 Pn 33 50.20 0.4
 Sg 34 24.20
 LDF 2.31 331 Pn 33 50.60 0.4
 Pg 33 56.00
 Sg 34 26.90
 GRR 2.44 319 Pn 33 51.10 -0.9
 Sg 34 29.90
 SSB 2.46 121 Pn 33 51.47 -0.8
 Pg 33 56.08
 FLN 2.58 329 Pn 33 53.60 -0.4
 Pg 34 00.60
 Sg 34 33.80
 HAU 3.56 65 Pn 34 06.20 -1.7
 Sg 35 04.80
 LPL 3.76 105 Pn 34 11.40 0.4
 Sg 35 08.30
 LPG 3.78 105 Pn 34 11.50 0.2
 Sg 35 09.30
 BSF 3.78 69 Pn 34 09.70 -1.5
 Pg 34 23.30
 Sg 35 11.40
 DOU 4.06 29 P 34 16.30 1.4
 IS 34 59.20
 CDF 4.29 63 Pn 34 16.90 -1.5
 Pg 34 33.40
 Sg 35 27.80
 S.D. = 0.8 on 28 of 28 obs.

* JUN 02, 1990 14h 43m 16.88±6.26s

43.328 N ±20.4km DEPTH = 10.0km (geophysicist)					5.3mb (16 obs.) TUAMOTU ARCHIPELAGO REGION (631)					KEV 131.37 6 ePKP 49 13.00 -0.8				
PYRENEES (378) ML 3.0 (LDG).										KIC 133.17 102 PKP 49 19.30 0.4				
ELYF	0.59	105	Pg	43 28.98 0.1	DZM	50.43	259	iPd	39 01.10 0.8	SOD 135.70 20 PKP 49 22.40 0.1				
			Sg	43 37.39	PLM	58.81	22	eP	40 02.00 0.6	0.9s 2.20nm				
BOH	0.60	112	Pg	43 29.00 -0.1	MWC	59.22	20	eP	40 05.00 0.8	HFS 137.18 20 ePKP 49 15.90 -9.2X				
			Sg	43 37.56	RVR	59.23	21	eP	40 04.00 0.0	0.8s 1.30nm				
MADF	0.72	104	Pg	43 30.52 -0.5	GLA	59.27	24	eP	40 05.00 0.6	SUF 137.93 10 ePKP 49 18.00 -8.5X				
			Sg	43 41.85	ABL	59.44	19	P	40 05.50 -0.3	GUN 139.09 288 PKP 49 21.00 -9.1X				
ISSF	0.78	112	Pg	43 31.99 -0.1	SBB	59.72	20	eP	40 08.00 0.5	0.6s 15.00nm				
			Sg	43 42.72	TPC	59.78	22	eP	40 08.00 0.1	PKI 139.50 287 PKP 49 23.20 -7.7X				
ATE	0.82	107	Pg	43 32.94 0.2	PHAM	60.02	17	P	40 10.20 0.7	0.8s 15.00nm				
			Sg	43 44.17	PRS	60.22	16	ePc	40 11.10 0.2	NUR 139.71 12 ePKP 49 23.00 -6.7X				
ESCF	0.91	105	Pg	43 34.44 0.1	PRI	60.23	17	ePc	40 11.60 0.5	DOU 139.85 36 PKP 49 22.40 -7.9X				
LHE	0.94	116	Pg	43 34.51 -0.4	ISA	60.42	19	eP	40 13.00 0.7	WTS 139.97 33 ePKP 49 31.00 0.6				
JAU	1.07	105	Pg	43 37.37 0.3	LLA	60.60	17	eP	40 14.00 0.5	0.7s 13.00nm				
			Sg	43 52.64	GSC	60.61	21	eP	40 14.00 0.4	GKN 140.20 288 PKP 49 24.20 -7.7X				
EPF	1.57	100	Pn	43 45.30 0.4	SAO	60.61	16	ePc	40 13.60 0.1	ENN 140.21 35 ePKP 49 26.50 -4.4X				
			Pg	43 48.80	GCC	60.72	15	ePc	40 14.40 0.2	0.8s 5.00nm				
			Sg	44 10.20	CLC	60.83	20	eP	40 15.00 0.0	ENN 140.21 35 ePKP 49 31.50 0.6				
LFF	2.42	47	Pn	44 05.80 8.7X	PCC	61.08	15	ePc	40 16.60 0.0	0.8s 10.00nm				
			Sn	44 42.60	MHC	61.11	16	ePc	40 17.50 0.5	MOX 143.18 32 ePKP 49 37.00 0.8				
LPO	2.53	57	Pn	44 01.80 3.2X	ARN	61.14	16	P	40 17.80 0.7	CLL 143.40 30 ePKP 49 34.00 -2.5X				
			Sn	44 33.80	FRI	61.29	17	eP	40 17.90 -0.2	1.0s 14.00nm				
			Sg	44 46.00	BRK	61.46	15	eP	40 19.50 0.3	BNI 143.56 42 PKP 49 36.00 -1.2				
RJF	3.08	49	Pn	44 06.80 0.4	BKS	61.47	15	ePd	40 19.50 0.2	GRF 143.60 33 ePKP 49 34.30 -2.7X				
			Sn	44 47.10	CMB	62.09	17	eP	40 23.60 0.0	LSD 143.67 42 PKP 49 34.88 -2.7X				
			Sg	45 02.40	TNP	63.03	19	P	40 30.00 0.0	RRL 143.69 43 PKP 49 36.62 -1.0				
CAF	3.19	59	Pn	44 03.70 -4.4X	ORV	63.24	15	eP	40 30.80 -0.3	RSP 143.88 42 PKP 49 35.29 -2.4X				
			Sg	44 46.50	KVN	63.67	18	P	40 34.40 0.2	PZZ 144.09 43 PKP 49 36.83 -1.3				
MFF	3.47	19	Pn	44 26.40 14.4X	WDC	63.98	14	ePc	40 35.70 -0.2	ORX 144.09 41 PKP 49 36.01 -2.1X				
LSF	3.75	38	Pn	44 16.60 0.6	ALQ	64.36	29	ePc	40 38.50 -0.3	BRG 144.13 30 iPKPc 49 36.00 -1.8				
TCF	4.10	42	Pn	44 20.20 -0.7	1.0s 14.50nm				5.2mb	STV 144.35 43 PKP 49 36.31 -2.2X				
MAF	4.23	45	Pn	44 22.60 -0.3	ANMO	64.37	29	P	40 38.40 -0.4	ENR 144.42 43 PKP 49 35.39 -3.2X				
BGF	4.60	44	Pn	44 28.00 -0.1	0.8s 8.86nm				5.0mb	VAI 144.44 40 PKP 49 36.00 -2.4X				
S.D. = 0.4 on 14 of 18 obs.					MSU	65.10	23	P	40 44.50 0.9	HYB 144.49 270 ePKP 49 38.50 -0.9				
& JUN 02, 1990 16h 17m 46.60s					RMO	65.35	250	iPd	40 45.90 0.7	FUR 144.56 35 ePKP 49 37.60 -1.1				
36.830 N 121.598 W					0.8s 14.00nm				5.2mb	ROB 144.67 43 PKP 49 37.65 -1.4				
DEPTH = 5.0km					LPB	66.58	99	P	40 48.00 -5.7X	WET 144.78 33 iPKPd 49 38.30 -0.7				
CENTRAL CALIFORNIA (39)					ZOBO	66.63	99	iPc	40 55.00 0.7	1.2s 60.00nm				
<BRK>. ML 2.5 (BRK).					Z 24s 0.25um				4.3mszx	IMI 144.87 43 PKP 49 36.83 -2.5X				
SAO	0.14	118	iPd	17 49.30 -0.2	LR	07 24.00				FIN 144.93 43 PKP 49 38.16 -1.3				
GCC	0.38	302	ePc	17 53.80 -0.4	CMS	66.76	244	iPc	40 54.30 0.1	PCP 144.98 42 PKP 49 38.26 -1.3				
MHC	0.51	356	iPd	17 57.10 0.2	1.1s 14.00nm				5.1mb	PRU 145.02 30 PKP 49 38.30 -1.0				
			iS	18 05.40	DAU	67.11	23	P	40 57.00 0.5	1.0s 50.60nm				
ARN	0.52	6	iPc	17 57.00 0.0	CCH	68.12	101	P	41 04.50 1.2	e 49 40.80				
PRS	0.53	160	iPd	17 56.80 -0.4	BFD	68.26	237	eP	41 03.70 0.1	MDJ 145.05 39 PKP 49 39.00 -0.5				
LLA	0.57	112	iPc	17 57.80 -0.2	GOL	68.80	27	P	41 06.50 -0.5	SOTA 145.09 36 ePKP 49 38.50 -1.2				
			iS	18 06.50	0.8s 19.35nm				5.4mb	1.0s 25.00nm				
PCC	0.92	317	ePc	18 03.30 -1.3	CTA	69.21	256	iPc	41 10.00 0.3	id 49 39.40				
PRI	1.02	132	iPc	18 06.20 -0.2	1.1s 81.01nm				5.8mb	i 49 50.00				
BKS	1.16	334	iPc	18 08.90 0.1	BMW	69.50	12	P	41 10.90 0.0	e 50 25.00				
BRK	1.17	333	e(P)	18 07.40 -1.4	LON	70.03	12	P	41 13.00 -1.2	KHC 145.13 32 iPKP 49 39.00 -0.6				
ZSP	1.23	335	ePc	18 08.40 -1.5	LRM	71.54	19	eP	41 24.30 0.7	1.0s 32.00nm				
			iS	18 10.40	NEW	72.50	15	P	41 28.50 -0.5	KSP 145.20 28 iPKPc 49 39.50 -0.1				
			iS	18 27.90	0.8s 18.23nm				5.3mb	1.0s 42.00nm				
PHAM	1.39	135	eP	18 11.20 -1.4	OLY	72.64	39	P	41 29.00 -1.0	OGA 145.20 37 iPKPc 49 39.90 -0.1				
FRI	1.52	83	ePd	18 13.70 -0.8	PNT	72.93	13	eP	41 32.00 0.5	0.8s 38.00nm				
CMB	1.54	38	ePd	18 14.50 -0.3	0.8s 16.00nm				5.2mb	SAL 145.62 39 PKP 49 41.00 0.5				
			eS	18 32.40	SIV	73.17	101	P	41 33.00 -0.6	BHG 145.69 34 ePKP 49 40.80 0.2				
14 obs. associated					FVM	74.97	38	P	41 42.70 -0.8	0.9s 98.00nm				
& JUN 02, 1990 16h 31m 44.22s					SES	76.06	18	ePc	41 49.60 0.0	CTI 146.02 38 PKP 49 42.00 0.7				
31.380 N 115.260 W					EDM	78.00	15	iP	42 00.20 -0.1	FVI 146.33 36 PKP 49 42.20 0.6				
DEPTH = 10.0km					JSC	78.24	46	P	42 02.00 0.1	VKA 147.05 31 i(PKP) 49 45.50 2.7X				
BAJA CALIFORNIA (48)					WB5	79.90	253	eP	42 16.20 4.9X	VOY 147.29 36 ePKP 49 43.70 0.4				
<ECX>. MD 2.5 (ECX).					WRA	79.90	253	Pd	42 11.50 0.2	e 49 45.60				
ECBX	0.20	63	iPc	31 48.03 -0.6	0.9s 7.00nm				4.6mb	SFI 147.33 41 PKP 49 46.20 2.9X				
			S	31 51.42	ADK	80.54	337	P	42 13.50 -0.4	TRI 147.41 37 ePKP 49 46.10 2.7X				
EMX	0.61	1	eP	31 54.50 -1.9	BLA	80.54	44	P	42 14.50 0.1	ZST 147.47 30 iPKP 49 44.20 0.8				
			S	32 03.30	0.8s 15.94nm				5.1mb	i 49 47.00				
LMX	0.77	19	iPd	31 57.70 -1.5	PMR	83.58	355	P	42 28.90 -0.6	CRE 147.55 41 PKP 49 46.00 2.2				
			S	32 09.00	0.7s 35.61nm				5.7mb	LJU 147.63 36 ePKP 49 46.50 2.8X				
PBX	1.30	286	ePd	32 06.57 -1.8	BAO	85.14	105	eP	42 39.00 0.5	SPC 148.12 26 ePKP 49 44.80 0.1				
			S	32 24.41	MTN	85.26	258	iPc	42 39.20 0.2	e 49 47.80				
CBX	1.51	308	eP	32 10.36 -1.1	TTA	85.60	352	P	42 39.50 -0.3	5.5mb				
			S	32 29.90	YKA	86.28	11	eP	42 42.20 -0.8	ARV 148.23 41 PKP 49 48.30 3.5X				
5 obs. associated					0.8s 24.00nm				5.4mb	ASS 148.29 42 PKP 49 48.00 3.0X				
JUN 02, 1990 17h 29m 58.54 ± 0.18s					TBR	86.73	43	P	42 45.20 -0.5	SRO 148.31 30 iPKP 49 48.90 4.2X				
21.877 S ± 5.2km 138.918 W ± 6.6km					FBA	86.77	356	P	42 44.50 -0.8	VBY 148.36 36 e(PKP) 49 49.30 4.4X				
DEPTH = 0.0km (geophysicist)					MAW	89.33	188	iPd	42 58.80 1.0	PTJ 148.48 35 e(PKP) 49 46.00 0.8				
					MBC	98.64	5	eP	43 44.00 4.0X	MNS 148.67 43 PKP 49 48.90 3.3X				
					CHG	125.93	278	ePKPd	49 05.20 0.2	BUD 148.88 30 iPKP 49 50.00 4.3X				
					0.9s 12.82nm					RDP 149.02 44 PKP 49 51.00 4.8X				
										POO 149.10 270 iPKPd 49 51.00 4.1X				
										AZI 149.35 43 PKP 49 52.00 5.4X				
										SDI 149.74 43 PKP 49 52.00 4.7X				

DUI 150.17 42 PKP 49 54.00 6.1X
 HYAR 150.48 38 iPKP 49 53.30 5.1X
 SGO 151.31 44 PKP 49 56.00 6.5X
 BEO 151.51 32 iPKP 49 56.40 6.7X
 BCAO 152.10 125 iPKPd 49 52.00 0.4
 0.8s 53.00nm

TDS 152.46 44 PKP 49 52.30 1.0
 S.D. = 0.7 on 96 of 134 obs.

? JUN 02, 1990 17h 47m 36.17 ± 4.55s
 31.625 S ± 22.1km 68.764 W ± 15.0km
 DEPTH = 85.4 ± 41.8 km
 SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.14 347 eP 47 49.00 0.0
 RTCV 0.30 141 iPc 47 49.40 0.1
 (S) 48 01.00

RTLL 0.39 41 ePd 47 49.80 0.0
 CFA 0.45 88 iPd 47 50.20 -0.1
 RTBS 0.59 266 ePc 47 51.30 -0.1
 S 48 03.40

RTRS 1.57 337 ePc 48 03.00 0.0
 S.D. = 0.1 on 6 of 6 obs.

% JUN 02, 1990 19h 49m 47.96 ± 0.72s
 44.632 N ± 4.3km 7.271 E ± 9.9km
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)
 ML 2.1 (GEN).

PZZ 0.18 224 P 49 52.24 0.2
 S 49 54.60

STV 0.39 174 P 49 55.93 0.0
 S 50 01.16

ENR 0.42 165 P 49 56.44 -0.1
 SS 50 01.88

RRL 0.45 310 P 49 56.96 -0.2
 S 50 02.60

RSP 0.52 359 P 49 58.00 0.3
 S 50 05.36

LSD 0.83 354 P 50 04.03 -0.2
 S 50 14.49

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

% JUN 02, 1990 19h 50m 46.27 ± 0.88s
 30.434 S ± 9.9km 69.307 W ± 17.3km
 DEPTH = 10.0km (geophysicist)

CHILE-ARGENTINA BORDER REGION (127)

RTRS 0.29 333 iPd 50 52.30 -0.1

RTCB 1.14 158 eP 51 07.00 -0.6

RTLL 1.15 141 iPd 51 07.00 -0.8

RTBS 1.23 186 ePd 51 09.20 0.1
 S 51 27.20

CFA 1.49 142 iPc 51 14.10 1.0
 eS 51 33.30

RTCV 1.57 155 ePc 51 14.60 0.4
 S.D. = 0.9 on 6 of 6 obs.

* JUN 02, 1990 20h 07m 23.52 ± 0.80s
 5.360 N ± 9.2km 31.241 E ± 17.0km
 DEPTH = 10.0km (geophysicist)
 4.4mb (5 obs.)

SUDAN (557)

NAI 8.62 140 iPd 09 19.00 -12.5X

BCAO 12.69 266 iPd 10 27.00 0.0
 1.2s 14.00nm 5.1mb

LSZ 20.72 188 ePn 12 06.00 -1.0
 0.8s 16.70nm 4.4mb

iSn 16 48.00

iSb 17 20.00

iSg 17 42.60

iLg 18 10.40

KRI 22.10 184 eP 12 22.20 1.2
 eLR 18 49.00

BUL 25.47 186 iP 12 53.60 -0.1
 iLR 20 20.30

KHC 46.12 344 eP 15 50.50 0.7

SLL 56.64 349 eP 17 04.70 -4.3X
 0.7s 2.00nm 4.3mb

SUF 57.36 357 iP 17 13.80 -0.2
 0.7s 4.00nm 4.6mb

NB2 57.56 349 P 17 15.00 -0.6

0.9s 2.10nm 4.2mb
 S.D. = 0.9 on 7 of 9 obs.

% JUN 02, 1990 21h 41m 56.86 ± 5.24s
 45.802 N ± 14.2km 26.780 E ± 18.6km
 DEPTH = 107.9 ± 52.4 km

ROMANIA (358)

BRD 0.34 146 iPd 42 12.00 -0.8

MLR 0.66 242 iP 42 14.50 -0.6

ISR 0.68 194 eP 42 16.50 1.3

PPE 0.72 54 ePd 42 16.50 1.1

CLI 0.83 25 iPc 42 16.00 -0.4

CFR 1.15 122 eP 42 19.00 -0.7

TLB 1.50 143 iPd 42 24.00 0.1
 S.D. = 1.2 on 7 of 7 obs.

& JUN 02, 1990 22h 43m 38.74s
 61.346 N 150.391 W
 DEPTH = 42.9km
 SOUTHERN ALASKA (2)
 <AGS-P>

SUA 0.21 305 iP 43 46.67 0.1
 eS 43 53.28

PWA 0.39 39 eP 43 47.90 -0.4

PMS 0.41 104 eP 43 48.43 -0.2
 iS 43 56.54

PLRM 0.65 67 iP 43 50.93 -0.7
 eS 44 01.13

NKA 0.73 215 iP 43 53.87 1.1

CGLM 0.78 268 eP 43 53.58 0.1

SPU 0.82 259 iP 43 53.50 -0.6
 iS 44 05.44

GHO 0.82 58 eP 43 53.44 -0.7
 iS 44 05.67

SKT 0.84 320 iP 43 53.56 -0.7

SLKM 0.85 174 iP 43 53.49 -0.9
 eS 44 05.43

NCG 0.85 275 eP 43 53.75 -0.8
 eS 44 06.77

CRP 0.86 265 eP 43 54.25 -0.4

CUT 1.06 3 eP 43 57.04 -0.4

SML 1.09 64 eP 43 57.26 -0.5

RDT 1.25 233 iP 43 59.37 -0.8
 eS 44 15.96

SEW 1.33 159 eP 44 00.61 -0.5

NNL 1.38 199 eP 44 02.42 0.5

RED 1.49 232 eP 44 02.87 -0.7

GLI 1.67 105 iP 44 04.29 -1.7

NCA 1.82 68 eP 44 08.67 0.5

CNPM 1.87 193 eP 44 07.93 -1.0

VZW 1.88 97 eP 44 07.55 -1.5

VLZ 1.97 94 eP 44 08.94 -1.3

TOA 2.15 67 eP 44 12.71 -0.1

KLU 2.15 84 eP 44 11.52 -1.4

KTH 2.23 354 eP 44 13.79 -0.2
 26 obs. associated

% JUN 03, 1990 00h 31m 52.46 ± 1.11s
 36.168 N ± 18.1km 31.520 E ± 14.3km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

ELL 1.42 295 ePn 32 19.60 1.1

BCK 1.49 330 ePn 32 18.80 -0.6

LFK 1.86 118 iPn 32 24.70 0.0

KHL 2.68 324 ePn 32 37.00 0.5

ALT 3.09 339 ePn 32 42.50 0.2

CIN 3.10 298 eP 32 41.00 -1.3
 S.D. = 1.1 on 6 of 6 obs.

JUN 03, 1990 00h 55m 16.27 ± 0.53s
 5.976 S ± 3.3km 77.164 W ± 6.2km
 DEPTH = 37.9 ± 5.3 km
 4.8mb (18 obs.)

NORTHERN PERU (111)
 Felt (V) at Riojo, (IV) at
 Chochapoyos and (II) Contamono.

TUNG 4.70 344 P 56 27.00 -0.1
 eS 57 20.00

VC1 5.44 347 P 56 37.40 -0.2
 eS 57 50.00

OTO 5.90 347 eP 56 46.00 2.0

QUR 5.92 347 eP 56 45.70 1.3

GGP 5.94 346 eP 56 45.60 0.9

PT08 5.98 174 eP 56 45.90 0.9
 iS 57 56.70

NNA 5.98 177 eP 56 43.80 -1.0
 i 56 45.40

eS 57 52.00

PT10 6.06 178 eP 56 46.50 0.6
 eS 57 53.00

CAYA 6.07 352 P 56 46.00 -0.5

COTA 6.38 349 eP 56 52.00 1.2

PSO 7.12 359 eP 57 00.00 -1.1

PT06 7.85 174 eP 57 10.20 -0.7
 iS 58 33.00

BOG 10.97 16 eP 57 55.00 0.7
 eS 00 17.00

ARE 11.81 152 eP 58 04.00 -1.6

ZOBO 13.53 140 P 58 30.00 1.3
 Z 20s 1.28um 4.8msz

S 01 16.00

LR 03 20.00

BMG 13.59 18 eP 58 29.00 0.0

LPB 13.74 140 P 58 40.00 8.6)

S 01 02.00

LR 03 50.00

CCH 15.64 137 P 59 03.90 7.9)

SDV 16.14 24 eP 59 01.60 -0.7

TOV 17.30 25 eP 59 15.40 -1.3

SIV 18.65 124 P 59 32.20 -1.3

OLLA 18.95 33 eP 59 37.00 -0.2

CAR 19.29 32 eP 59 38.00 -3.2)

LLAV 19.32 32 eP 59 40.70 -0.9

GUAN 19.55 36 eP 59 44.00 -0.1

SLB 25.36 39 eP 00 40.72 -1.0

SLW 25.57 39 eP 00 38.00 -5.7)

BAO 30.18 111 e(P) 01 29.00 3.3)

ITR 38.51 97 eP 02 41.30 4.2)

JSC 40.22 355 P 02 51.00 0.0

GBTN 41.95 351 P 03 04.40 -0.8

OLY 43.40 343 P 03 16.00 -1.0

NA2 43.88 359 P 03 21.50 0.7

LNO 45.19 339 eP 03 33.00 1.7

ALQ 49.18 328 eP 04 03.00 0.0
 0.9s 9.87nm 4.8mb

ANMO 49.18 328 P 04 03.00 0.0
 0.9s 8.40nm 4.8mb

GOL 52.38 333 P 04 26.50 -0.8
 0.7s 4.85nm 4.6mb

TPC 54.22 320 eP 04 41.00 0.3

MSU 54.90 327 P 04 45.40 -0.5

RSSD 55.44 337 P 04 49.50 -0.2

GSC 55.46 321 eP 04 50.00 0.2

SBB 55.72 319 eP 04 51.00 -0.7

CLC 56.28 321 eP 05 11.00 15.3)

BW06 56.74 332 P 04 57.80 -1.3

TNP 57.50 323 P 05 04.00 -0.5
 0.6s 1.54nm 4.2mb

KVN 58.66 323 P 05 11.50 -1.0

LRM 60.41 332 eP 05 23.00 -1.6

ORV 61.03 322 eP 05 28.60 0.0

FFC 63.93 344 eP 05 51.00 3.4)
 1.0s 15.00nm 5.0mb

NEW 64.37 332 P 05 50.00 -0.7
 0.8s 11.98nm 5.0mb

PNT 66.29 331 eP 06 03.00 0.0

EDM 66.42 337 eP 06 02.50 -1.2

FR0 69.83 4 ePc 06 24.00 -0.7

LKO 72.96 78 Pc 06 44.62 0.1

KIC 73.31 82 P 06 47.00 0.5

YKA 74.03 343 eP 06 48.50 -1.3
 0.6s 3.50nm 4.5mb

SPA 84.06 180 iPc 07 45.60 1.3
 0.8s 11.25nm 5.0mb

EPF 84.98 46 eP 07 54.70 5.5)

GRR 85.42 41 eP 07 52.00 0.8
 0.6s 1.80nm 4.4mb

MBC 85.64 351 eP 07 53.00 1.2
 0.6s 4.50nm 4.8mb

LFF 85.69 44 eP 07 54.00 1.4
 0.6s 3.60nm 4.8mb

FLN 85.75 40 eP 07 53.70 0.9
 0.6s 4.50nm 4.9mb

LPO 85.94 44 eP 07 55.10 1.2
 0.6s 3.60nm 4.8mb

LDF 85.94 40 eP 07 54.60 0.8
 0.6s 3.60nm 4.8mb

CAF 86.60 44 eP 07 58.00 0.8
 0.6s 1.80nm 4.5mb

03d 09h												
SFI	0.09 315	Pc	13 07.70 0.0	ISn	40 31.00			I	41 00.90			
		eSg	13 09.30	iSg	40 38.50			I	41 13.20			
PGD	0.16 277	P	13 09.00 0.1	ePn	40 01.00	1.4		iSn	41 31.70			
		eSg	13 12.00	eSn	40 39.10			iSg	41 59.40			
CRE	0.23 178	P	13 10.00 -0.1	ePn	40 02.60	2.8X		Pll	5.15 262	P	40 31.10 0.1	
RSM	0.38 79	P	13 13.20 0.4	eSn	40 40.30			MAO	5.17 247	P	40 31.90 0.7	
ARV	0.81 116	P	13 19.80 -1.0	e(P)	40 00.00	-0.7		KEK	5.19 161	eP	40 30.00 -1.5	
		eSg	13 31.20	iPc	40 00.00	-0.7		KHC	5.27 330	iPd	40 33.40 0.8	
ASS	0.95 146	P	13 24.00 0.8	iPnd	40 05.90	3.7X				e	40 42.00	
		eSg	13 38.60	iPnd	40 04.50	1.0		CMP	5.33 81	iPc	40 36.00 2.4	
Pll	1.03 263	P	13 24.40 -0.2	2.0s	8.10nm			MMB	5.43 122	iPc	40 35.00 0.0	
		eSg	13 37.90	i(Pg)	40 16.70			WET	5.54 326	iPc	40 36.80 0.3	
		S.D. = 0.7	on 7 of 7 obs.	i(Sn)	40 44.80					I	40 46.10	
				I	40 51.90			OSS	5.60 294	eP	40 39.70 2.2	
? JUN 03, 1990 10h	28m	11.44 ± 3.72s		Lg	41 23.00			FUR	5.61 311	iPc	40 37.90 0.5	
		31.521 S ± 9.7km	68.018 W ± 26.8km	P	40 08.80	0.8		MDI	5.67 284	P	40 37.90 -0.4	
		DEPTH = 10.0km (geophysicist)		i(Pn)	40 08.90	0.3		PRU	5.74 340	Pn	40 39.20 0.0	
		SAN JUAN PROVINCE, ARGENTINA	(137)		40 21.90					1.0s	28.90nm	4.9mb X
					40 23.70					e	40 47.40	
CFA	0.21 246	iPd	28 16.50 0.5	i(Sn)	40 50.50			PLD	5.78 113	eP	40 40.00 0.2	
		eS	28 22.10	I	41 06.50			PVL	5.78 102	iPc	40 40.00 0.2	
RTLL	0.43 296	iPc	28 20.00 -0.2	I	41 21.20			BOB	5.80 274	P	40 40.70 0.6	
RTCV	0.56 232	iPc	28 22.40 -0.4	iPn	40 09.30	-0.5		RZN	5.99 117	iPc	40 42.00 -1.0	
RTCB	0.67 273	iPd	28 24.90 0.1	iPnd	40 11.60	0.7		GRC1	6.02 319	iPnd	40 42.30 -0.9	
RTBS	1.23 263	ePd	28 34.20 -0.1	iPg	40 27.30					e(Sn)	41 49.50	
		S	28 52.60	ISn	40 56.10			BUC1	6.05 90	eP	41 12.00 28.4X	
RTRS	1.83 317	ePc	28 43.30 0.1	I	40 57.40			BUC	6.10 89	eP	40 46.00 1.8	
		eS	29 08.80	RSM	3.75 261	P	40 13.30 2.2	KSP	6.27 353	iPc	40 46.50 -0.2	
		S.D. = 0.4	on 6 of 6 obs.	DUI	3.75 219	P	40 13.00 1.8			1.0s	76.00nm	5.5mb X
				AQU	3.80 235	P	40 12.90 1.1	TMA	6.31 287	eP	40 47.20 -0.2	
% JUN 03, 1990 11h	27m	14.23 ± 0.89s		KBA	3.83 311	ePn	40 14.00 1.5	SAX	6.31 297	eP	40 49.00 1.4	
		43.827 N ± 9.3km	11.962 E ± 6.7km			iPg	40 28.10	VAI	6.34 284	P	40 47.00 -0.7	
		DEPTH = 10.0km (geophysicist)				I	41 14.30	DIM	6.35 111	eP	40 47.00 -0.9	
		CENTRAL ITALY	(381)			I	41 15.20	ISR	6.39 82	eP	40 59.00 10.5X	
						iSg	41 17.30	LLS	6.40 293	eP	40 50.60 1.7	
SFI	0.12 320	P	27 16.20 -1.0	SKO	3.88 132	iPn	40 13.40 0.5	PCP	6.45 272	P	40 49.36 0.0	
		eSg	27 18.40			iPg	40 30.10	KDZ	6.46 115	IP	40 48.00 -1.5	
PGD	0.18 286	P	27 17.70 -0.7			I	40 56.20	PGF	6.57 254	Pn	40 49.80 -1.3	
		eSg	27 21.50			iSn	41 03.50	PTT	6.57 66	eP	41 27.50 36.4X	
CRE	0.20 182	P	27 18.00 -0.7			I	41 18.00	VRI	6.58 76	ePd	40 52.50 1.4	
RSM	0.37 74	P	27 22.30 0.5			iSb	41 15.20	CKI	6.65 271	P	40 51.80 -0.3	
BDI	1.01 284	P	27 34.00 0.5			iSg	41 24.00	SOI	6.66 190	P	40 52.00 -0.2	
Pll	1.05 265	P	27 35.30 1.3			Lg	41 26.20	BRG	6.70 340	iPn	40 52.00 -0.8	
		S.D. = 1.2	on 6 of 6 obs.	ASS	3.88 248	P	40 16.00 2.9X			e	41 09.00	
				FVI	3.89 302	P	40 15.30 2.2			e	42 26.00	
						eSn	41 00.00			I	42 34.00	
JUN 03, 1990 11h	39m	11.98 ± 0.19s		AZI	4.02 230	P	40 16.60 1.8	FIN	6.72 270	P	40 51.62 -1.6	
		44.636 N ± 2.5km	17.577 E ± 2.1km	SDI	4.02 225	P	40 15.19 0.3	NEO	6.79 140	eP	40 53.00 -1.0	
		DEPTH = 10.0km (geophysicist)		KMR	4.17 326	iPn-	40 18.40 1.4	RDO	6.81 118	eP	40 53.00 -1.3	
		4.6mb (11 obs.)				iPg	40 34.00	VLS	6.84 160	eP	40 52.00 -2.8	
		YUGOSLAVIA	(383)			iSn	41 03.30			eS	42 07.80	
		ML 4.7 (VKA), 4.5 (KBA), 4.4				iSg	41 24.70	ORO	6.86 282	P	40 53.30 -1.9	
		(LDG), MD 4.5 (TTG), 4.2 (TRI).						ORX	6.86 282	P	40 52.85 -2.3	
		Felt (VII) in the Teslic area.		SFI	4.17 262	P	40 19.57 2.5	HOF	6.87 328	eP	40 54.50 -0.6	
				MNS	4.21 239	P	40 18.40 0.7	JMB	6.89 105	eP	40 54.00 -1.5	
ZAG	1.63 317	ePn	39 42.00 1.2	OHR	4.24 145	iPnd	40 20.00 1.8	ROB	6.95 271	P	40 54.90 -1.5	
		iSg	40 06.00			I(Sg)	41 24.80	IMI	6.99 267	P	40 55.61 -1.4	
HVAR	1.67 210	iPnc	39 41.40 0.0			Lg	41 29.70	ZLA	7.00 297	eP	40 57.20 0.2	
		iSg	40 06.20	RFI	4.25 220	P	40 20.13 2.0	SLE	7.04 300	eP	40 57.20 -0.4	
PTJ	1.70 318	iPg	39 42.90 0.9	PGD	4.27 262	ePn	40 21.44 2.7	MNO	7.04 199	P	40 56.00 -1.8	
		eSg	40 06.10			ePg	40 29.50	MOX	7.23 328	iPn	41 00.00 -0.3	
PLE	1.85 134	iPnc	39 44.90 0.8			eSn	41 17.00			1.2s	66.00nm	5.7mb X
		eSn	40 11.20	LCI	4.31 176	P	40 19.00 0.0	Z	12s	1.70um		
VBY	1.86 299	ePnc	39 46.20 2.1	BSS	4.35 209	P	40 19.90 0.3	N	12s	2.10um		
BRY	1.87 158	ePn	39 45.00 0.6	SGO	4.41 203	P	40 20.90 0.5	E	12s	2.80um		
		eSn	40 13.00	CTI	4.41 291	P	40 21.80 1.2			eSn	42 07.00	
BEO	2.06 84	iPn	39 46.80 -0.2	BHG	4.49 315	iPnc	40 23.30 1.7			eSg	42 45.00	
		iSg	40 10.80	RMP	4.54 233	P	40 24.50 2.1	ENR	7.28 270	P	40 59.72 -1.3	
NKY	2.09 150	ePn	39 48.40 0.8	CEI	4.56 46	eP	40 45.00 22.4X	DIX	7.31 285	eP	41 02.30 0.7	
		eSn	40 18.00	RDP	4.57 233	P	40 23.00 0.2	SBF	7.32 267	Pn	41 00.30 -1.3	
HCY	2.29 163	ePn	39 52.20 1.8	VTS	4.57 115	iPc	40 23.00 0.1	CLL	7.35 337	iPnc	41 01.00 -0.8	
		eSn	40 24.00	ORI	4.65 191	P	40 23.90 0.1			1.4s	42.00nm	5.4mb X
IVA	2.44 136	ePn	39 53.00 0.5	MGR	4.74 199	P	40 26.00 0.8			(Sn)	42 10.00	
		eSn	40 24.70	SCE	4.75 302	eP	40 28.10 2.6			(Sg)	42 49.00	
CEY	2.49 297	ePn	39 55.90 2.7	DRA	4.77 87	eP	40 28.00 2.5			I	43 03.00	
		eSn	40 31.90	SPC	4.91 21	iPn	40 28.00 0.3	RSP	7.35 278	P	40 58.18 -3.8X	
BDV	2.52 158	iPnd	39 55.50 1.8			iPb	40 35.90	STV	7.35 271	P	41 00.54 -1.4	
		eSn	40 28.50			iPg	40 50.50	FEL	7.38 299	P	41 01.51 -0.9	
TTG	2.52 150	ePn	39 55.30 1.7			i(Sn)	41 24.50	DOI	7.38 273	P	41 02.20 -0.2	
		iSn	40 28.50			I(Sg)	41 51.80	LSD	7.43 280	P	41 00.23 -3.0X	
LJU	2.57 304	ePn	39 56.10 1.8	VAY	4.94 130	iPnc	40 28.00 0.1	TLB	7.46 87	eP	41 12.00 8.5X	
		I	40 01.60	MME	4.95 267	P	40 29.70 1.4	PZZ	7.48 273	P	41 01.05 -2.9	
		(S)	40 33.80	BDI	5.04 266	P	40 29.90 0.5	CFR	7.53 82	eP	41 14.00 9.6X	
PVY	2.68 139	ePn	39 56.90 0.8	TDS	5.06 191	P	40 29.60 0.0	BBS	7.55 296	P	41 04.27 -0.5	
		eSn	40 32.10	SAL	5.08 283	P	40 30.70 0.7	EMS	7.64 285	eP	41 07.50 1.4	
TIM	2.80 66	iPd	40 05.00 7.4X	OGA	5.10 298	eP	40 33.30 2.9X	RRL	7.69 276	P	41 04.74 -2.1	
TRI	2.90 293	ePn	40 01.00 2.0	SQTA	5.14 302	iPnc	40 33.30 2.4	PSN	7.69 93	eP	41 06.00 -0.6	
		iPg	40 05.00			iPg	40 53.70					

03d 14h

LCCM 0.64 253 iPc 33 48.10 0.2
 IS 34 00.50
 LNV 0.82 216 iPc 33 49.40 -0.2
 IS 34 03.00
 RTCV 2.41 54 ePc 34 10.20 0.1
 (S) 34 38.30
 RTCB 2.49 44 iPc 34 11.50 0.3
 CFA 2.76 53 iPc 34 14.70 -0.2
 RTLL 2.80 46 iPd 34 15.00 -0.4
 eS 34 48.00
 RTRS 3.32 21 ePc 34 22.90 0.3
 S.D. = 0.3 on 14 of 14 obs.

? JUN 03, 1990 14h 56m 49.63 ± 1.09s
 42.474 S ± 21.1km 82.642 W ± 18.3km
 DEPTH = 10.0km (geophysicist)
 5.0mb (5 obs.) 4.9MsZ (3 obs.)
 WEST CHILE RISE (686)

LPA 20.67 77 eP- 01 40.00 8.0X
 eS 05 28.00
 ANT 21.29 32 e(P) 01 41.50 2.9X
 LPB 28.70 30 P 02 48.00 -1.4
 LR 10 48.00
 ZOBO 28.93 30 iPc 02 53.20 1.5
 1.1s 31.90nm 5.0mb
 LR 11 16.00
 NNA 30.79 11 eP 03 07.30 -0.3
 1.0s 25.00nm 5.0mb
 Z 20s 1.24um 4.6MsZ
 PT08 30.86 12 eP 03 08.80 0.2
 BAO 39.95 59 eP 04 26.00 0.0
 ITR 51.25 62 eP 05 55.70 0.0
 TUL 78.93 349 eP 08 53.20 -1.3
 0.5s 6.20nm 4.9mb
 Z 21s 0.83um 5.0MsZ
 LR 31 00.00

LNO 78.93 349 e(P) 08 55.50 1.1
 ALO 80.07 340 eP 08 59.50 -1.5
 1.0s 14.00nm 4.9mb
 Z 18s 0.52um 4.9MsZ

RVR 82.49 331 eP 09 16.00 2.6X
 SBB 83.27 331 eP 09 15.00 -2.5X
 SWZ 84.12 122 eP 09 09.50 -12.9X
 CLC 84.21 332 eP 09 23.00 0.7
 ISA 84.38 331 eP 09 26.00 2.9X
 TIC 85.40 77 P 09 32.40 3.8X
 KIC 85.41 77 P 09 32.20 3.5X
 SLR 87.01 122 iPd 09 36.00 -0.7
 1.0s 15.00nm 5.2mb
 ORV 88.93 331 eP 09 47.00 1.8
 WDC 90.21 331 eP 09 48.90 -2.2
 LRM 91.83 340 eP 09 59.80 0.9
 INK 116.81 341 ePKP 15 43.00 8.4X
 KHC 124.05 52 ePKP 15 50.30 1.1
 MAT 148.16 273 (PKP) 16 30.00 -3.6X
 1.2s 9.38nm

MAIO 150.27 89 ePKP 16 41.00 4.0X
 HYB 150.32 142 ePKP 16 35.00 -2.5X
 QUE 152.76 107 ePKP 16 44.20 3.3X
 S.D. = 1.3 on 15 of 28 obs.

JUN 03, 1990 15h 19m 47.28 ± 0.50s
 44.640 N ± 4.4km 17.680 E ± 5.8km
 DEPTH = 5.0km (geophysicist)
 YUGOSLAVIA (383)
 ML 3.1 (KBA), 2.9 (TTG), 2.6 (LJU).

BLY 0.37 287 iPg 19 53.20 -1.5
 Sg 19 58.70
 ZAG 1.68 315 ePg 20 19.00 1.6
 ISg 20 42.00
 HVAR 1.71 212 iPn 20 16.90 -1.0
 ISn 20 40.30
 PTJ 1.75 317 ePn 20 18.00 -0.6
 ISg 20 41.80
 PLE 1.80 136 ePn 20 21.80 2.5X
 eSn 20 46.50
 BRY 1.85 160 ePn 20 21.00 1.0
 eSn 20 44.00
 VBY 1.92 298 ePn 20 22.70 1.7
 ISn 20 48.00
 ISg 20 51.50
 BEO 1.99 84 ePn 20 30.70 8.8X
 NKY 2.06 152 ePn 20 26.50 3.4X
 HCY 2.27 165 ePn 20 26.50 0.5

RIY 2.44 288 eSn 20 54.50
 e(Pn) 20 28.70 0.3
 iSn 20 58.90
 TTG 2.49 152 ePn 20 29.30 0.2
 eSn 21 02.50
 BDV 2.50 160 ePn 20 30.00 0.7
 eSn 21 02.50
 CEY 2.55 297 e(Pn) 20 34.00 4.0X
 eSn 21 07.00
 LJU 2.63 303 ePn 20 30.50 -0.6
 e 20 37.50
 eSn 21 06.50
 BZS 2.95 69 ePc 20 34.50 -1.2
 TRI 2.97 292 eP 20 39.90 4.0X
 i 21 14.00
 BUD 2.99 18 e(P) 20 47.00 10.7X
 VOY 3.01 299 ePn 20 37.70 1.1
 e(Pg) 20 43.80
 eSn 21 16.50
 SOP 3.14 346 ePn 20 39.90 1.6
 SRO 3.20 8 e(Pn) 20 39.00 -0.2
 e 21 22.20
 e 21 32.30
 ZST 3.58 354 i(Pn) 20 43.70 -0.9
 e 21 04.50
 e 21 25.40
 ARV 3.60 253 P 20 50.00 5.1X
 VKA 3.75 346 iPnc 20 46.20 -0.8
 iSn 21 30.20
 DUI 3.80 219 P 20 46.00 -1.8
 SKO 3.83 133 ePn 20 59.00 10.9X
 KBA 3.89 310 iPnd 20 52.80 3.6X
 iPg 21 05.40
 iSn 21 34.70
 i 21 51.30
 iSg 21 54.10
 ASS 3.95 248 P 20 53.20 3.2X
 FVI 3.95 301 P 20 59.00 9.1X
 SDI 4.07 225 P 20 51.30 -0.3
 AZI 4.08 231 P 20 53.00 1.4
 OHR 4.21 146 ePn 20 49.50 -4.0X
 MNS 4.28 240 P 20 53.30 -1.3
 CTI 4.48 290 P 21 07.00 9.5X
 SPC 4.88 20 eP 21 13.10 9.9X
 SOTA 5.20 302 iPnc 21 09.10 1.4
 iPg 21 20.10
 i 21 30.90
 i 22 02.30
 iSg 22 34.00
 KHC 5.30 329 ePg 21 07.70 -1.3
 Sg 22 00.50
 PRU 5.76 339 Pn 21 21.70 6.2X
 e 22 33.00

S.D. = 1.2 on 23 of 38 obs.

* JUN 03, 1990 15h 52m 52.09 ± 1.44s
 4.055 S ± 12.9km 153.614 E ± 9.3km
 DEPTH = 46.5 ± 14.0 km
 4.4mb (3 obs.)
 NEW IRELAND REGION (190)

RAB 1.45 265 iPc 53 15.70 -0.5
 0.6s 1733.33nm
 IS 53 36.00
 HNR 8.25 131 eP 54 52.00 0.0
 PMG 8.33 230 eP 54 54.00 0.8
 MTN 23.87 247 iPc 58 02.40 0.0
 0.7s 28.00nm 4.9mb
 WB5 24.48 228 eP 58 08.50 0.1
 WRA 24.54 228 Pc 58 09.00 0.1
 0.4s 4.70nm 4.4mb
 FORR 35.90 219 eP 59 49.00 -0.8
 MAT 42.87 342 eP 00 48.00 0.3
 1.0s 6.00nm 4.3mb

S.D. = 0.7 on 8 of 8 obs.

JUN 03, 1990 16h 23m 39.14 ± 0.41s
 5.442 N ± 7.0km 32.121 E ± 7.7km
 DEPTH = 10.0km (geophysicist)
 5.1mb (27 obs.) 4.6MsZ (4 obs.)
 SUDAN (557)

AAE 7.49 61 eP 25 33.00 1.5
 NAI 8.15 145 iPc 25 39.00 -1.5
 IS 28 07.00
 KRI 22.27 186 P 28 40.50 2.3
 eSn 32 45.00

iLR 34 58.90
 HLW 24.30 358 eP 28 59.50 1.7
 eS 33 18.50
 BUL 25.66 188 iP 29 10.60 -0.4
 ISn 33 56.30
 iLR 36 52.30
 BLF 34.82 189 iPd 30 33.50 1.0
 SOI 35.62 338 P 30 42.00 3.0
 HVD 36.40 190 eP 31 03.50 17.6X
 TIC 36.95 274 P 30 49.90 -0.7
 LKO 37.59 279 Pc 30 54.30 -1.7
 1.2s 57.00nm 5.2mb
 SDI 39.63 338 P 31 15.00 2.2
 AZI 40.02 338 P 31 19.00 3.1X
 MNS 40.64 338 P 31 22.00 0.9
 QUE 41.00 49 eP 31 26.70 2.3
 SRO 43.84 347 eP 31 49.60 2.5
 CTI 44.18 340 P 31 52.00 2.0
 FVI 44.27 341 P 31 53.70 3.1X
 ZST 44.49 346 eP 31 53.30 0.9
 e 36 35.00
 SPC 44.74 349 eP 31 55.70 1.1
 BNI 45.28 335 P 32 00.60 1.7
 LPG 45.60 335 eP 32 01.80 0.2
 1.0s 14.00nm 4.9mb
 LPL 45.62 335 eP 32 01.80 0.1
 1.2s 20.85nm 5.0mb
 KHC 46.29 343 P 32 06.40 -0.3
 1.4s 29.00nm 5.1mb
 Z 16s 0.90um 4.8MsZ
 TOL 47.27 322 eP 32 14.00 -0.6
 CAF 47.28 331 eP 32 14.20 -0.4
 1.2s 14.90nm 5.0mb
 BSF 47.47 337 eP 32 15.00 -1.2
 1.2s 17.85nm 5.0mb
 GRF 47.50 342 eP 32 09.80 -6.4X
 Z 20s 0.20um 4.1MsZ
 e 32 12.20
 LPO 47.53 330 eP 32 15.80 -0.7
 1.2s 23.80nm 5.2mb
 SMF 47.75 334 eP 32 17.10 -1.2
 1.2s 32.75nm 5.3mb
 BRG 47.76 345 eP 32 19.60 1.3
 1.7s 18.00nm 4.9mb
 CDF 47.77 338 eP 32 17.00 -1.5
 1.0s 8.00nm 4.8mb
 HAU 47.79 337 eP 32 17.30 -1.3
 1.0s 12.00nm 4.9mb
 RJF 47.82 331 eP 32 18.20 -0.6
 1.2s 14.90nm 5.0mb
 LFF 47.94 330 eP 32 19.20 -0.5
 1.2s 23.80nm 5.2mb
 LBF 47.96 334 eP 32 18.50 -1.4
 1.2s 20.85nm 5.1mb
 MAF 48.00 333 eP 32 18.80 -1.5
 1.2s 26.80nm 5.2mb
 AVF 48.08 334 eP 32 19.60 -1.2
 1.2s 23.80nm 5.2mb
 MOX 48.22 343 eP 32 23.50 1.6
 1.6s 16.00nm 4.8mb
 Z 16s 0.80um 4.8MsZ
 TCF 48.22 332 eP 32 21.30 -0.6
 1.2s 41.65nm 5.4mb
 SSF 48.22 334 eP 32 20.60 -1.3
 1.2s 8.95nm 4.7mb
 LOR 48.23 334 eP 32 20.60 -1.4
 1.2s 14.90nm 4.9mb
 CLL 48.41 344 eP 32 24.00 0.7
 1.5s 15.00nm 4.8mb
 e 33 49.00
 LSF 48.51 332 eP 32 23.30 -0.8
 1.2s 26.80nm 5.2mb
 KSH 52.02 43 P 32 52.00 0.7
 N 16s 2.80um
 GKN 54.57 59 P 33 09.30 -1.1
 1.1s 42.00nm 5.4mb
 PKI 55.13 60 P 33 13.20 -1.5
 NUR 55.23 356 iP 33 28.00 13.6X
 GUN 55.62 60 P 33 16.00 -2.2
 HFS 56.34 349 eP 33 22.00 -0.4
 1.4s 31.50nm 5.2mb
 Z 18s 0.26um 4.4MsZ
 LR 56 08.00
 SUF 57.33 357 iP 33 28.00 -1.4
 NB2 57.66 348 P 33 30.90 -1.0
 1.3s 27.80nm 5.1mb
 WMO 61.81 43 P 34 00.00 -0.8

SOD 61.94 358 iP 34 01.30 0.2
 CHG 66.34 72 eP 34 29.90 -0.8
 CHTO 66.34 72 eP 34 29.60 -1.0
 1.1s 5.30nm 4.6mb
 GTA 69.37 50 P 34 49.20 -0.3
 Z 20s 0.50um 4.8Msz
 LZH 72.05 54 eP 35 05.00 -0.9
 2.0s 42.00nm 5.2mb
 Z 22s 0.80um 4.9Msz
 sP 35 16.50
 GYA 73.76 64 P 35 15.80 -0.2
 MAW 76.06 168 iP 35 29.60 1.4
 HHC 78.48 50 P 35 43.80 1.4
 BJI 81.98 50 eP 36 00.00 -0.8
 BAO 81.98 253 eP 36 03.50 2.1
 TIA 82.79 54 eP 36 05.90 0.7
 S.D. = 1.4 on 58 of 63 obs.

* JUN 03, 1990 17h 04m 03.43±1.71s
 36.824 N ±16.6km 28.388 E ±15.4km
 DEPTH = 33.0km (normal)

DODECANESE ISLANDS (369)

YER 0.32 345 iPg 04 10.00 -1.5
 iSg 04 18.00
 CIN 0.81 343 eP 04 18.00 -0.4
 KSL 1.19 126 ePn 04 24.50 0.7
 ELL 1.22 93 ePn 04 23.00 -1.4
 SMG 1.52 306 ePn 04 34.00 5.4X
 eSn 05 04.00
 KHL 1.75 31 ePn 04 32.90 0.9
 IZM 1.81 331 ePn 04 34.00 1.2
 BCK 1.87 69 ePn 04 34.30 0.5
 S.D. = 1.4 on 7 of 8 obs.

? JUN 03, 1990 19h 14m 59.05±10.61s
 51.373 N ±70.9km 16.102 E ±55.6km
 DEPTH = 10.0km (geophysicist)

POLAND (548)

KSP 0.54 167 iP 15 10.00 -0.1
 0.6s 62.00nm
 iS 15 19.50
 BRG 1.45 251 iPg 15 25.70 0.4
 iSg 15 46.00
 PRU 1.71 216 ePn 15 29.00 0.0
 Sn 15 44.80
 eSg 15 54.00
 CLL 1.94 269 iPn 15 30.30 -2.1X
 iPg 15 33.70
 eSg 15 59.00
 KHC 2.77 217 ePn 15 44.50 0.2
 Pg 15 50.00
 Sn 16 16.90
 Sg 16 28.50
 HOF 2.88 250 ePn 15 53.80 8.0X
 MOX 2.93 257 ePg 15 53.00 6.5X
 iSg 16 33.00
 GRF 3.54 244 ePn 15 54.50 -0.7
 e(Pg) 16 06.20
 eSg 16 53.70
 S.D. = 0.6 on 5 of 8 obs.

JUN 03, 1990 19h 23m 55.45±0.37s
 46.304 N ±3.0km 7.281 E ±3.9km
 DEPTH = 9.6 ± 3.2 km

SWITZERLAND (544)

ML 3.0 (LDG), 2.9 (VIE), MD 2.6 (STR).

DIX 0.24 158 iPd 23 59.40 -1.3
 EMS 0.34 226 iPc 24 01.10 -1.4
 MMK 0.54 118 eP 24 04.50 -1.9
 ORX 0.83 144 P 24 10.41 -1.2
 S 24 21.49
 ORO 0.84 144 P 24 10.90 -0.8
 LSD 0.85 186 P 24 10.41 -1.7
 S 24 21.49
 LPL 0.88 206 Pg 24 11.10 -1.4
 Sg 24 24.20
 LPG 0.89 205 Pg 24 11.40 -1.3
 Sg 24 24.60
 LOMF 1.09 344 Pg 24 17.05 1.0
 Sg 24 31.20
 TMA 1.12 100 eP 24 15.70 -1.0
 VAI 1.13 112 P 24 15.60 -0.9
 eSg 24 28.40

RSP 1.15 181 P 24 16.56 -0.6
 S 24 32.57
 BBS 1.17 8 Pg 24 18.25 0.9
 Sg 24 32.19
 LLS 1.31 64 eP 24 19.20 -0.7
 BNI 1.32 199 P 24 19.10 -0.9
 eSg 24 34.90
 ZLA 1.40 32 eP 24 20.60 -0.5
 RRL 1.43 194 P 24 21.49 -0.2
 S 24 39.75
 MOF 1.55 356 Pn 24 23.69 0.4
 Sg 24 44.45
 BSF 1.56 348 Pg 24 24.60 1.1
 FEL 1.65 17 Pn 24 23.28 -1.4
 Sg 24 38.76
 SLE 1.68 29 ePc 24 23.90 -1.2
 SAX 1.71 56 eP 24 26.10 0.4
 MDI 1.77 106 P 24 29.00 2.6
 PZZ 1.80 184 P 24 27.85 0.9
 S 24 49.60

HAU 1.82 340 Pn 24 27.40 0.3
 Pg 24 29.40
 Sn 24 51.10
 Sg 24 53.40
 ECH 1.91 358 Pn 24 27.36 -1.1
 Sg 24 56.20
 PCP 1.97 153 P 24 31.13 1.7
 S 24 56.16
 OSS 2.01 78 eP 24 34.10 4.0X
 ROB 2.05 168 P 24 34.00 3.5X
 S 24 59.65
 STV 2.06 179 P 24 32.98 2.3
 S 24 58.62
 ENR 2.08 177 P 24 32.77 1.8
 S 24 59.03

CDF 2.11 360 Pn 24 29.84 -1.5
 FIN 2.20 162 P 24 35.03 2.5
 S 25 01.50
 LBF 2.38 288 Pn 24 35.40 0.2
 Sg 25 09.60
 SMF 2.40 279 Pn 24 35.60 0.1
 Sg 25 10.60
 IMI 2.43 170 P 24 37.29 1.3
 S 25 05.60
 SBF 2.44 177 Pn 24 37.00 0.9
 Sn 25 05.20
 LOR 2.54 294 Pn 24 38.40 0.9
 Sg 25 15.30

SSF 2.71 288 Pn 24 40.80 1.0
 Sg 25 19.80
 AVF 2.75 282 Pn 24 39.80 -0.7
 Sg 25 22.30
 FRF 2.78 190 Pn 24 42.00 1.1
 Sg 24 43.50
 SQTA 2.85 70 eP 24 49.50 1.5
 iPg 24 49.50
 e 25 26.00
 iSg 25 27.70
 BGF 3.08 276 Pn 24 44.70 -0.3
 Sn 25 17.40
 Sg 25 31.80
 MAF 3.27 270 Pn 24 47.00 -0.8
 Sn 25 24.60
 Sg 25 39.60
 GRF 4.30 37 e(Pg) 25 18.20 15.8X
 e(Sg) 26 15.30
 KHC 5.10 54 ePg 25 33.00 19.2X
 eSg 26 38.00
 S.D. = 1.3 on 42 of 46 obs.

JUN 03, 1990 19h 27m 26.79±0.46s
 46.215 N ±4.5km 7.346 E ±3.4km
 DEPTH = 11.4 ± 4.2 km

SWITZERLAND (544)

ML 2.8 (LDG).

DIX 0.14 162 iPd 27 30.90 0.4
 EMS 0.32 243 iPc 27 32.70 -1.0
 MMK 0.46 111 eP 27 36.00 -0.3
 LPL 0.82 212 Pg 27 42.80 0.1
 Sg 27 55.60
 LPG 0.83 210 Pg 27 43.10 0.2
 Sg 27 55.90
 VAI 1.05 109 P 27 44.30 -2.2
 TMA 1.07 95 eP 27 47.70 0.8
 BNI 1.25 202 P 27 51.00 0.9
 LLS 1.31 60 eP 27 50.70 -0.4
 BSF 1.66 347 Pg 27 56.00 0.0

Sg 28 17.40
 SAX 1.72 52 eP 27 57.70 0.7
 SLE 1.74 26 ePc 27 55.50 -1.6
 HAU 1.92 340 Pg 28 00.60 1.0
 Sn 28 22.70
 Sg 28 24.70
 SBF 2.35 178 Pn 28 13.80 7.8X
 LBF 2.45 290 Pn 28 06.50 -0.8
 Pg 28 11.70
 Sg 28 39.20
 SMF 2.46 281 Pn 28 08.50 1.1
 Sg 28 42.20
 LOR 2.62 295 Pn 28 10.00 0.3
 Pg 28 17.10
 Sg 28 46.60
 FRF 2.70 191 Pn 28 18.20 7.3X
 AVF 2.82 283 Pn 28 11.40 -1.1
 Sg 28 52.70
 SQTA 2.84 68 e(Pn) 28 14.00 1.0
 iPg 28 22.10
 iSg 29 00.70
 BGF 3.13 278 Pn 28 16.20 -0.7
 Sn 28 50.50
 Sg 29 03.20
 MAF 3.32 272 Pn 28 19.40 -0.2
 Sg 29 10.60
 S.D. = 1.0 on 20 of 22 obs.

* JUN 03, 1990 19h 50m 44.17±1.30s
 35.848 N ±22.0km 31.064 E ±16.7km
 DEPTH = 33.0km (normal)

CYPRUS (372)

ELL 1.30 314 iPn 51 06.90 0.7
 BCK 1.65 347 ePn 51 10.70 -0.7
 CSS 2.05 115 eP 51 17.50 0.5
 LFK 2.09 105 ePn 51 17.20 -0.4
 KHL 2.76 334 ePn 51 28.00 0.9
 CIN 2.96 307 eP 51 29.00 -0.9
 S.D. = 1.0 on 6 of 6 obs.

JUN 03, 1990 19h 54m 27.68±0.83s
 46.443 N ±9.0km 13.135 E ±8.1km
 DEPTH = 10.0km (geophysicist)

AUSTRIA (546)

ML 2.5 (KBA), MD 3.0 (LJU), 2.1 (TRI).

FVI 0.29 302 P 54 32.50 -1.2
 eSg 54 36.80
 KBA 0.65 13 iPgd 54 41.00 0.2
 iSg 54 50.50
 VOY 0.67 128 ePg 54 39.50 -1.5
 eSg 54 49.90
 TRI 0.86 149 e(Pg) 54 45.60 1.5
 e(Sg) 54 55.30
 CTI 1.10 250 P 54 47.80 -0.7
 eSg 55 01.70
 OGA 1.51 287 iPgd 54 56.00 1.0
 SQTA 1.53 301 iPgd 54 56.00 0.8
 i 54 56.70
 iSg 55 15.10
 S.D. = 1.4 on 7 of 7 obs.

? JUN 03, 1990 20h 41m 52.28±0.88s
 4.620 N ±14.1km 31.863 E ±11.8km
 DEPTH = 10.0km (geophysicist)

4.6mb (4 obs.)

SUDAN (557)

mbLg 4.9 (BUL).

NAI 7.66 140 iPc 44 01.00 14.2X
 iS 45 30.00
 AAE 8.13 57 eP 43 53.00 -0.6
 BAO 13.29 270 iPc 45 03.00 -0.7
 0.8s 9.00nm 4.9mb
 iS 47 26.50
 Lg 48 18.00
 NPA 20.90 160 eP 46 50.20 12.7X
 iSg 53 08.30
 iLg 54 41.80
 KRI 21.43 186 eP 47 01.00 18.0X
 eLR 53 18.00
 BUL 24.81 187 iPc 47 16.50 0.3
 1.2s 23.44nm 4.7mb
 IAS 42.57 356 eP 50 05.00 15.1X
 KHC 47.00 344 P 50 26.20 0.7

03d 20h

APO 57.43 350 eP 51 43.50 0.2
0.5s 0.50nm 3.8mb
NB2 58.41 348 P 51 52.60 2.4X
1.1s 5.40nm 4.5mb
S.D. = 0.8 on 5 of 10 obs.

* JUN 03, 1990 21h 16m 45.13±1.14s
40.274 N ±10.4km 21.945 E ±10.3km
DEPTH = 10.0km (geophysicist)
GREECE (364)

VAY 1.15 24 iPn 17 07.00 0.4
OHR 1.21 314 iPn 17 07.90 0.2
iSg 17 27.80
Lg 17 29.20
NEO 1.38 134 ePb 17 10.50 0.1
SKO 1.74 347 ePn 17 15.00 -0.5
KEK 1.74 252 ePn 17 21.80 6.2X
RDO 2.87 71 ePn 17 31.50 -0.2
S.D. = 0.5 on 5 of 6 obs.

& JUN 03, 1990 22h 14m 38.95s
63.151 N 150.221 W
DEPTH = 100.1km
3.1mb (1 obs.)
CENTRAL ALASKA (1)
<AGS-P>.

HUR 0.32 123 iP 14 53.79 -0.1
KTH 0.51 322 iP 14 55.24 0.1
eS 15 07.97
RND 0.67 67 iP 14 56.20 -0.2
CUT 0.75 182 iP 14 56.96 -0.1
MCK 0.82 44 iP 14 57.63 -0.2
iS 15 11.32
SKT 1.32 208 iP 15 02.80 -0.6
GHO 1.51 156 iP 15 05.71 -0.1
eS 15 28.26
PWA 1.51 174 iPd 15 05.60 -0.1
NEA 1.52 19 iP 15 04.89 -0.9
iS 15 23.89
SML 1.61 146 iP 15 06.52 -0.5
WRH 1.63 35 iP 15 06.38 -0.8
eS 15 26.41
PLRM 1.65 162 iP 15 06.75 -0.6
PMR 1.65 162 iPd 15 06.80 -0.6
SUA 1.71 188 iP 15 07.89 -0.5
CCB 1.84 34 iP 15 09.01 -0.9
iS 15 31.60
HDA 1.92 48 iP 15 10.09 -0.9
iS 15 33.24
PMS 1.94 171 iPd 15 10.40 -0.9
NCA 1.96 125 eP 15 10.86 -0.6
eS 15 38.77
NCG 1.97 208 iP 15 11.01 -0.8
Sn 15 35.73
GGLM 2.03 205 iP 15 11.69 -0.8
FBA 2.06 30 iPd 15 11.80 -1.0
DDM 2.06 70 iP 15 12.23 -0.6
iS 15 39.40
CRP 2.10 206 iP 15 12.77 -0.7
iS 15 38.68
TOA 2.15 117 iPc 15 13.80 -0.2
SPU 2.16 204 iP 15 13.37 -0.8
PAX 2.17 93 iP 15 13.97 -0.4
Sn 15 41.15
DMW 2.20 64 eP 15 13.84 -0.9
GLM 2.22 33 eP 15 16.82 1.8
SDG 2.24 104 eP 15 14.76 -0.4
NKA 2.46 192 eP 15 19.83 1.7
KLU 2.61 128 eP 15 18.57 -1.6
TTA 2.65 268 iPc 15 19.60 -1.2
SLKM 2.65 180 eP 15 19.54 -1.3
GLI 2.71 146 iP 15 19.74 -1.9
eS 15 52.30
VZW 2.72 139 iP 15 19.63 -2.0
VLZ 2.73 136 iP 15 19.55 -2.2
RDT 2.79 203 eP 15 21.18 -1.4
DOT 2.82 77 eP 15 21.52 -1.5
RED 3.00 205 eP 15 25.15 -0.4
SEW 3.08 173 iP 15 25.04 -1.5
NNL 3.16 190 eP 15 27.99 0.3
SVW 3.26 233 eP 15 27.40 -1.7
TMW 3.27 84 eP 15 27.36 -1.8
IMA 3.29 335 iPd 15 28.00 -1.5
YCNPM 3.67 188 iP 15 33.42 -1.2
FYU 4.03 30 iP 15 38.09 -1.5

AUL 4.09 204 eP 15 41.36 1.0
MID 4.18 152 eP 15 41.10 -0.5
TGL 4.24 121 eP 15 40.03 -2.5
BALM 4.27 116 eP 15 40.30 -2.6
MCNL 4.45 208 eP 15 44.57 -0.8
CDD 4.55 203 eP 15 45.78 -1.0
DWY 4.90 75 P 15 49.30 -2.2
HYT 6.43 106 P 16 10.00 -2.8
INK 8.58 46 P 16 40.00 -2.0
YKA 16.16 76 eP 18 18.20 -2.8
0.5s 0.60nm 3.1mb
56 obs. associated

? JUN 03, 1990 22h 51m 05.70±6.90s
37.513 N ±38.0km 20.560 E ±53.4km
DEPTH = 10.0km (geophysicist)
IONIAN SEA (399)
ML 3.5 (ATH).

VLS 0.66 2 iPgd 51 18.60 -0.3
eSg 51 28.00
ITM 1.14 107 ePg 51 27.00 0.0
eSg 51 41.50
VLI 2.06 112 ePg 51 47.00 6.3X
KEK 2.28 345 ePg 51 52.00 8.1X
NEO 2.75 49 ePn 51 50.50 -0.2
OHR 3.60 3 ePn 52 14.00 11.3X
VAY 4.11 22 ePn 52 10.40 0.6
S.D. = 0.7 on 4 of 7 obs.

JUN 03, 1990 23h 13m 45.50±0.86s
42.941 N ±8.1km 18.805 E ±6.4km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.9 (TTG).

NKY 0.19 132 ePg 13 49.80 0.0
eSg 13 53.20
BRY 0.20 258 iPgd 13 48.70 -1.2
iSg 13 52.10
HCY 0.54 205 ePg 13 56.50 0.0
eSg 14 05.50
PLE 0.58 48 ePg 13 57.00 -0.3
eSg 14 06.00
TTG 0.61 147 ePg 13 58.00 0.2
eSg 14 07.00
HVAR 1.74 279 iPn 14 17.30 1.3
eSn 14 40.90
iSg 14 42.10
S.D. = 1.1 on 6 of 6 obs.

* JUN 04, 1990 00h 24m 32.38±0.86s
22.217 S ±13.2km 179.466 W ±10.9km
DEPTH = 590.3 ±7.0 km
5.0mb (10 obs.)
SOUTH OF FIJI ISLANDS (171)

SVA 4.52 334 ePc 26 01.20 -0.2
VUN 4.62 335 ePc 26 01.40 -0.8
OYA 4.80 340 eP 26 04.00 0.4
KRO 4.99 347 eP 26 00.60 -4.6X
SGE 5.22 331 iPc 26 07.60 0.5
TVI 5.29 354 eP 26 07.60 0.0
MBU 5.49 342 eP 26 09.60 0.3
NDE 5.72 348 eP 26 11.50 0.3
YSA 6.16 333 eP 26 14.10 -0.9
DZM 13.06 268 iPd 27 22.70 1.0
iS 29 44.10
BRS 25.69 253 iP 29 20.00 1.0
COO 26.92 246 eP 29 31.00 1.4
0.6s 23.00nm 5.0mb
RMO 29.22 255 iPd 29 50.70 1.1
CAN 30.43 238 iPd 30 00.90 1.1
BWA 30.65 240 iPd 30 00.70 -1.0
CMS 32.20 246 eP 30 15.60 0.9
WB5 43.02 264 iPd 31 41.80 -1.1
WRA 43.04 264 Pd 31 41.60 -1.4
0.6s 20.10nm 4.8mb
WARB 49.03 254 iPd 32 27.80 -0.7
0.7s 60.00nm 5.2mb
KNA 49.19 268 iPd 32 28.90 -0.9
0.3s 24.00nm 5.2mb
COOL 53.30 247 eP 32 58.00 -1.4
KLB 56.10 246 iPd 33 18.20 -0.7
BAL 57.12 247 iPd 33 25.00 -0.9
MUN 57.36 245 eP 33 27.00 -0.5
MRWA 57.94 249 iPd 33 30.70 -0.8

NANU 59.65 256 iPd 33 42.40 -0.5
0.4s 38.00nm 5.0mb
MAT 70.80 325 eP 34 50.00 -1.8
0.8s 13.43nm 4.5mb
NJ2 79.94 311 Pc 35 42.60 0.5
PRS 80.00 44 e(P) 35 43.00 0.6
GCC 80.02 43 e(P) 35 42.00 -0.4
PCC 80.06 43 e(P) 35 42.70 0.1
MDJ 81.15 326 eP 35 48.30 0.2
FRI 81.46 44 eP 35 48.90 -0.9
CMB 81.64 43 ePc 35 51.00 0.2
WDC 81.86 40 eP 35 52.00 0.2
ORV 81.86 41 eP 35 51.80 0.0
CN2 82.83 323 Pd 35 56.00 -0.5
TIY 87.41 313 eP 36 19.00 0.1
XAN 88.09 308 P 36 22.50 0.4
PNT 88.84 34 eP 36 25.00 -0.1
0.7s 5.00nm 4.5mb
KMI 88.92 298 Pc 36 27.50 1.2
ALO 89.53 52 eP 36 28.80 -0.1
1.0s 3.50nm 4.2mb
CHG 89.55 290 iPd 36 30.50 1.5
1.0s 32.50nm 5.2mb
CHTO 89.55 290 iPd 36 30.50 1.5
0.9s 24.94nm 5.1mb
TEH 133.99 299 iPKPd 43 02.10 16.9X
SUF 135.94 343 ePKP 42 41.00 -6.8X
NUR 138.17 342 ePKP 42 45.00 -7.0X
NB2 140.50 352 PKP 42 49.00 -7.3X
0.7s 2.20nm
HFS 140.99 350 ePKP 42 49.60 -7.5X
0.5s 6.00nm
EKA 146.82 4 PKP 43 09.00 2.0X
0.8s 6.20nm
HRI 147.10 297 ePKP 43 11.00 2.7X
BBTK 147.51 310 ePKP 43 10.00 1.2
PRNI 148.15 292 ePKP 43 14.00 4.0X
MBH 148.31 291 ePKP 43 15.00 4.8X
SPC 148.88 335 iPKP 43 14.40 3.7X
KSP 148.89 341 iPKPd 43 15.00 4.6X
0.7s 20.00nm
WIT 149.09 353 ePKP 43 16.00 5.4X
i 43 20.50
CLL 149.38 345 iPKPd 43 16.10 5.0X
0.9s 31.00nm
e 43 22.00
BRG 149.54 343 iPKPd 43 16.20 4.8X
0.9s 29.00nm
i 43 23.10
WTS 149.88 352 ePKP 43 17.00 5.2X
0.8s 32.00nm
PRU 150.17 342 PKPd 43 17.70 5.3X
0.7s 16.90nm
e 43 26.00
MOX 150.33 346 (PKP) 43 18.50 5.9X
e 43 27.00
ZST 150.89 337 ePKP 43 19.70 6.2X
e 43 29.60
ENN 151.19 353 ePKP 43 20.50 6.7X
0.9s 9.00nm
e 43 30.50
KHC 151.21 342 PKP 43 20.40 6.4X
e 43 31.20
MEM 151.34 353 iPKPd 43 20.40 6.4X
DOU 151.99 354 PKPc 43 22.00 7.0X
S.D. = 0.9 on 44 of 67 obs.

JUN 04, 1990 01h 08m 30.08±0.42s
40.152 N ±3.8km 29.257 E ±4.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZI 0.25 42 iPg 08 35.50 0.1
YLV 0.42 12 iPg 08 38.90 0.2
GBZT 0.65 13 iPgc 08 47.10 4.0X
eSg 09 01.10
KCT 0.70 278 iPg 08 43.90 0.0
HRT 0.74 25 ePg 08 43.70 -0.9
GPA 0.82 80 iPg 08 45.40 -0.5
ISK 0.92 351 ePn 08 48.20 0.5
ITU 0.97 349 iPgc 08 49.00 0.5
iSg 09 05.00
EDC 1.08 281 iPn 08 50.60 0.1
ALT 1.28 149 iPn 08 53.30 -0.6
KHL 1.84 173 ePn 09 06.60 4.6X
EZN 2.28 263 iPn 09 07.20 -1.1
IZM 2.34 222 ePn 09 14.10 4.9X

04d 05h

VAM 2.69 260 ePn 15 35.50 -0.2
 KHL 2.93 34 ePn 15 39.00 -0.2
 BCK 2.97 57 ePn 15 40.40 0.8
 VLI 3.73 284 ePn 15 49.80 -0.7
 ALT 3.80 33 ePn 15 51.00 -0.5
 ITM 4.63 288 ePn 16 04.00 0.8
 S.D. = 0.8 on 11 of 12 obs.

* JUN 04, 1990 05h 29m 51.01 ± 0.67s
 4.600 S ± 8.5km 138.676 E ± 9.7km
 DEPTH = 33.0km (normal)
 4.8mb (2 obs.)

WEST IRIAN (201)

MNDI 5.19 107 eP 31 08.00 -0.7
 eS 32 27.00
 MTN 11.07 222 iPc 32 30.90 0.7
 eS 34 32.00
 KNA 14.75 221 eP 33 19.00 -0.1
 WB5 15.75 195 eP 33 30.10 -2.0
 i 33 37.30
 eS 36 20.10
 WRA 15.82 195 P 33 32.00 -1.0
 0.5s 1.40nm 3.4mb X
 OIS 15.88 177 eP 33 30.00 -3.8X
 eS 36 22.00
 CTA 17.06 155 eP 33 50.00 1.2
 WARB 24.35 207 iPc 35 09.00 1.8
 CHG 45.53 302 eP 38 10.00 0.3
 CHTO 45.53 302 eP 38 09.90 0.2
 0.9s 6.18nm 4.5mb
 GUN 60.25 306 P 39 58.80 -0.4
 PKI 60.50 305 P 40 00.20 -0.7
 GKN 61.29 305 P 40 05.60 -0.5
 0.7s 10.00nm 5.1mb
 LKO 144.22 280 (PKP)c 49 23.62 -2.7X
 0.6s 5.50nm
 LPB 146.21 129 PKP 49 27.00 -3.1X
 ZOBO 146.34 129 PKPc 49 31.70 1.2
 CCH 147.17 132 PKP 49 43.20 11.7X
 SIV 151.70 137 PKP 49 43.20 5.0X
 S.D. = 1.1 on 13 of 18 obs.

JUN 04, 1990 05h 41m 25.37 ± 0.25s
 44.622 N ± 1.9km 7.257 E ± 3.0km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.6 (GEN), 2.6 (LDG).

PZZ 0.16 224 P 41 29.23 0.1
 S 41 31.49
 STV 0.38 173 P 41 33.13 -0.1
 S 41 38.36
 ENR 0.41 163 P 41 33.61 -0.2
 S 41 39.46
 RRL 0.45 312 P 41 34.36 -0.2
 S 41 40.10
 RSP 0.53 0 P 41 35.69 -0.4
 S 41 42.23
 ROB 0.55 126 P 41 36.61 0.1
 S 41 44.07
 BNI 0.60 316 P 41 36.90 -0.6
 eSg 41 41.10
 TOUF 0.61 181 P 41 37.39 -0.4
 AUTN 0.64 169 Pg 41 38.32 0.0
 Sg 41 46.75
 MVIF 0.73 186 Pg 41 39.79 0.0
 Sg 41 49.67
 AURF 0.74 176 Pg 41 39.79 -0.1
 SBF 0.77 170 Pg 41 40.30 -0.1
 Sg 41 51.00
 FIN 0.80 121 P 41 40.92 0.0
 S 41 51.04
 LSD 0.84 355 P 41 42.15 0.4
 S 41 52.48
 IMI 0.84 147 P 41 41.23 -0.5
 S 41 51.56
 CALN 0.91 197 Pg 41 42.96 0.1
 PCP 0.92 95 P 41 43.38 0.3
 S 41 55.86
 LPG 0.95 338 Pg 41 43.80 0.2
 Sg 41 56.30
 LPL 0.97 338 Pg 41 44.30 0.4
 Sg 41 57.20
 FRF 1.15 203 Pg 41 46.80 -0.1
 Sg 42 01.50
 LRG 1.33 209 Pg 41 50.60 0.7

Sg 42 08.50
 LMR 1.40 203 Pg 41 51.30 0.4
 Sg 42 09.20
 S.D. = 0.3 on 22 of 22 obs.

% JUN 04, 1990 07h 05m 04.86 ± 0.81s
 39.224 N ± 7.6km 27.766 E ± 8.7km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

IZM 0.91 206 ePg 05 22.20 -0.2
 eSg 05 36.20
 KCT 1.12 24 iPn 05 26.00 0.1
 EDC 1.12 4 ePn 05 25.30 -0.6
 EZN 1.27 299 ePn 05 28.70 0.3
 IZI 1.72 49 ePn 05 35.50 0.4
 YLV 1.82 42 iPn 05 36.50 -0.1
 S.D. = 0.5 on 6 of 6 obs.

JUN 04, 1990 08h 30m 33.97 ± 0.22s
 44.610 N ± 2.0km 7.231 E ± 2.7km
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)
 ML 3.3 (LDG), 3.2 (GEN), 2.6 (VIE), MD 2.7 (STR).

DOI 0.11 175 Pc 30 37.60 0.7
 PZZ 0.14 222 P 30 37.64 0.2
 S 30 40.11
 STV 0.37 170 P 30 41.64 0.0
 S 30 46.67
 ENR 0.41 160 P 30 42.00 -0.3
 S 30 47.94
 RRL 0.44 314 P 30 42.87 -0.2
 S 30 48.41
 RSP 0.54 2 P 30 44.10 -0.9
 S 30 50.92
 ROB 0.56 124 P 30 45.13 -0.2
 S 30 52.51
 BNI 0.59 318 Pc 30 45.40 -0.7
 eSg 30 52.80
 TOUF 0.60 179 Pg 30 45.94 -0.2
 AUTN 0.63 167 Pg 30 46.14 -0.7
 Sg 30 55.00
 MVIF 0.72 185 Pg 30 48.33 0.1
 Sg 30 58.56
 AURF 0.73 175 Pg 30 47.74 -0.6
 Sg 30 58.21
 SBF 0.76 169 Pg 30 48.30 -0.6
 Sg 30 59.00
 CKI 0.77 104 P 30 50.80 1.8
 eSg 31 03.70
 FIN 0.81 119 P 30 49.33 -0.3
 S 30 59.28
 IMI 0.84 146 P 30 49.64 -0.7
 S 30 59.80
 LSD 0.85 356 P 30 50.56 0.0
 S 31 01.13
 REVF 0.88 174 Pg 30 50.71 -0.1
 CALN 0.89 196 Pg 30 51.56 0.4
 Sg 31 03.89
 PCP 0.94 94 P 30 51.90 -0.1
 e 31 04.45
 LPG 0.95 339 Pg 30 52.50 0.2
 Sg 31 04.60
 LPL 0.97 339 Pg 30 52.20 -0.4
 Sg 31 05.20
 FRF 1.13 202 Pg 30 55.30 0.2
 Sg 31 09.80
 ORO 1.15 27 P 30 56.00 0.5
 ORX 1.15 27 P 30 53.54 -2.1
 S 31 07.02
 LRG 1.31 209 Pg 30 58.50 0.2
 Sg 31 16.80
 LMR 1.38 202 Pg 30 59.30 0.1
 Sg 31 17.80
 EMS 1.48 352 eP 31 02.60 1.8
 DIX 1.48 5 eP 30 59.60 -1.2
 MMK 1.53 19 eP 30 59.90 -1.7
 BOB 1.59 84 P 31 04.80 2.5
 eSn 31 26.10
 VAI 1.66 40 P 31 05.40 2.2
 TMA 1.89 37 eP 31 05.10 -1.7
 MDI 2.11 55 P 31 11.00 1.3
 PGF 2.43 147 Pn 31 12.21 -2.2
 SMF 3.13 312 Pn 31 24.90 0.6
 Sn 32 00.10

Sg 32 13.30
 BSF 3.24 355 Pn 31 25.80 -0.1
 Sn 32 02.90
 SLE 3.28 15 eP 31 25.60 -0.8
 LBF 3.29 317 Pn 31 27.50 0.9
 Sn 32 04.80
 Sg 32 17.40

HAU 3.45 350 Pn 31 28.80 0.0
 Sn 32 06.20
 AVF 3.48 310 Pn 31 29.50 0.2
 Sn 32 08.60

LOR 3.55 320 Pn 31 30.60 0.4
 Sn 32 10.00
 SSF 3.58 315 Pn 31 30.80 0.2
 BGF 3.64 304 Pn 31 31.70 0.1
 Sg 32 27.80

MAF 3.66 298 Pn 31 32.10 0.3
 CAF 3.69 277 Pn 31 32.00 -0.4
 CDF 3.80 0 Pn 31 32.40 -1.5
 Sn 32 17.30

SQTA 3.81 45 ePn 31 35.50 1.4
 iPg 31 45.20
 iSg 32 21.50

TCF 3.91 297 Pn 31 36.20 0.8
 Sn 32 19.30
 RJF 4.12 282 Pn 31 39.70 1.5
 LSF 4.34 294 Pn 31 41.40 0.0

MFF 5.55 294 Pn 31 58.60 0.1
 LDF 6.44 311 Pn 32 11.30 0.1
 LPF 6.67 304 Pn 32 14.20 -0.2
 FLN 6.74 311 Pn 32 14.20 -1.1
 GRR 6.74 307 Pn 32 15.10 -0.3
 S.D. = 1.0 on 56 of 56 obs.

* JUN 04, 1990 08h 30m 36.57s
 60.263 N 153.491 W
 DEPTH = 158.9km

SOUTHERN ALASKA (2)
 <AGS-P>.

RED 0.39 66 eP 30 58.10 0.9
 >NNL 1.12 100 eP 31 03.43 0.0
 SPU 1.16 37 iP 31 02.63 -1.3
 CRP 1.20 32 iP 31 03.46 -1.0
 CGLM 1.28 34 eP 31 03.82 -1.2
 NCG 1.32 29 eP 31 04.53 -0.9
 COD 1.34 183 eP 31 04.40 -1.2
 CNPM 1.36 122 iP 31 04.72 -1.0
 eS 31 26.78
 SLKM 1.64 80 eP 31 07.17 -1.5
 iS 31 30.54
 SUA 1.81 47 eP 31 08.60 -1.9
 SKT 1.97 28 eP 31 10.78 -1.5
 SEW 2.03 93 eP 31 11.61 -1.3
 PMS 2.17 61 eP 31 12.22 -2.4
 PWA 2.25 50 eP 31 12.90 -2.6
 PLRM 2.51 56 eP 31 15.40 -3.3
 CUT 2.65 34 eP 31 18.91 -1.5
 GHO 2.69 54 eP 31 17.72 -3.3
 SML 2.95 56 eP 31 21.20 -3.0
 VZW 3.51 74 eP 31 28.46 -2.9
 VLZ 3.63 73 eP 31 30.94 -1.8
 KLU 3.90 68 eP 31 33.32 -3.2
 TOA 4.00 59 eP 31 35.57 -2.1
 22 obs. associated

JUN 04, 1990 09h 26m 36.58 ± 1.17s
 14.410 S ± 6.9km 167.800 E ± 4.9km
 DEPTH = 49.7 ± 10.4 km
 5.1mb (15 obs.) 4.7MsZ (5 obs.)
 VANUATU ISLANDS (186)

Felt on Mere Lavo.
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 23C
 Centroid Location:
 Origin Time 09:26:34.1 0.8
 Lat 14.43S FIX; Lon 167.91E FIX
 Dep 15.0 FIX Half-duration 1.5
 Moment Tensor: Scale 10**16 Nm
 Mrr= 4.75 0.40 Mtt= 0.34 0.63
 Mff=-5.09 0.56 Mrt= 0.30 1.45
 Mrf= 1.18 1.20 Mtf=-1.00 0.39
 Principal Axes:
 N Val= 4.90 P1g=83 Azm=290
 T 0.51 1 190
 P -5.41 7 100

Best Double Couple: Mo=5.2*10**16
NP1: Strike=189 Dip=38 Slip= 88
NP2: 11 52 91

Table with columns for station name, time, and various parameters. Includes stations like PVC, DZM, HNR, SVA, RAB, BRS, CTA, RMO, DLP, BWA, CNB, CAN, OIS, STK, TOO, WRA, FORR, MEKA, NANU, KKM, BAG, MAT, SSE, NJ2, WHN, MDJ, DL2, CN2, GYA, BJI, TIY, KMI, CHG, CHTO, HHC, CD2, BTO, LZM, SVW, TTA, GTA, PMR, PRS, MHC, ARN, PRI, WDC, ORV, CMB, FRI, IMA.

Table with columns for station name, time, and various parameters. Includes stations like ISA, SBB, RVR, FBA, BAR, PLM, CLC, GSC, KVN, TNP, GLA, GUN, PNT, PKI, GKN, WMO, GBA, ALO, APO, VAI, SFI, PGD, CRE, DUI, TDS, LOR, SDI, AZI, LBF, SSF, LPL, LPG, SMF, AVF, LPF, ITR, BNI, SOI, PLDF, AGO, MAF, TCF, LSF, PYM, MFF, LBL, BCAO, PVC, DZM, SVA, BRS, KDB, CTA.

Table with columns for station name, time, and various parameters. Includes stations like RMO, COO, CMS, BWA, CNB, CAN, OIS, STK, TOO, WB5, WRA, ADE, WARB, MEKA, NANU, TRT, KKM, BAG, MAT, SSE, NJ2, OIZ, WHN, MDJ, TIA, CN2, GYA, BJI, LOE, TIY, XAN, KMI, CHG, CHTO, HHC, CD2, BTO, LZM, TTA, GTA, PMR, SHL, MHC, ARN, PRI, WDC, ORV, CMB, FRI, IMA, ISA, SBB, RVR, FBA, PLM, CLC, GSC, KVN, TNP, GLA, GUN, PNT, PKI, GKN, WMO, GBA.

S.D. = 1.1 on 90 of 98 obs.
JUN 04, 1990 09h 44m 37.95 ± 0.23s
14.351 S ± 5.6km 167.742 E ± 5.6km
DEPTH = 26.5km (2 depth phases)
5.1mb (18 obs.) 4.8Msz (2 obs.)
VANUATU ISLANDS (186)
Some damage and landslides on
Mere Lava.

04d 09h														
ALO	0.8s	5.30nm		5.0mb	FRI	1.55	86	iPd	16 56.70 -0.9	FORR	37.74	233	eP	40 49.00 0.2
	94.71	55 e(P)	58	00.00				eS	17 11.90		0.4s	22.00nm		5.4mb
	1.0s	2.50nm		4.6mb	KVN	3.53	51	eP	17 25.50 -0.7	COOL	43.34	236	eP	41 34.00 -1.0
Z	20s	0.35um		4.8Msz					14 obs. associated	MEKA	44.47	243	iPd	41 44.80 0.6
ZOBO	116.99	117 ePKP	03	27.00 3.3X							0.4s	9.00nm		4.9mb
		LR			?	JUN 04, 1990	10h	25m	18.53± 6.74s	KLB	46.32	237	eP	41 58.10 -0.7
APO	130.09	343 ePKP	03	46.50 -0.3					3.807 S ±10.7km	NANU	46.55	249	eP	42 01.40 0.7
		1.60nm							80.459 W ±92.3km	BAL	46.94	238	eP	42 03.20 -0.5
CLL	137.89	336 ePKP	04	20.00 18.1X					DEPTH = 33.0km (normal)	MRWA	47.22	240	iPd	42 06.10 0.2
KHC	139.35	334 ePKP	04	15.20 10.6X					PERU-ECUADOR BORDER REGION (110)		0.6s	25.00nm		5.3mb
VAI	143.93	335 PKP	04	12.50 -0.2	TUNG	3.11	40	P	26 07.00 0.2	MUN	47.70	237	eP	42 09.00 -0.6
SFI	144.05	330 PKP	04	13.00 0.1	VC1	3.76	33	P	26 16.00 -0.1	KKM	49.44	288	eP	42 25.50 2.1
PGD	144.15	330 PKP	04	13.00 -0.4	GGP	4.06	27	P	26 21.00 0.5	MAT	52.74	335	eP	42 45.00 -2.9
CRE	144.22	329 PKP	04	14.00 0.6				iS	27 05.00		1.3s	42.31nm		5.3mb
DUI	144.27	325 PKP	04	12.00 -1.6	QTO	4.07	28	eP	26 21.30 0.9	Z	20s	0.71um		4.7Msz
LOR	144.53	341 ePKP	04	11.20 -2.5X				eS	27 09.50			eS	50 15.00	
		1.3s		14.45nm	QUR	4.09	28	eP	26 20.50 -0.3	SSE	57.93	318	Pd	43 25.50 0.1
SDI	144.60	325 PKP	04	13.00 -1.1				iS	27 05.80		1.0s	19.00nm		5.2mb
AZI	144.61	326 PKP	04	15.00 1.0	CAYA	4.59	33	P	26 27.20 -0.7	Z	20s	0.50um		4.6Msz
LBF	144.75	341 ePKP	04	12.10 -2.1X	COTA	4.63	27	P	26 28.30 -0.2	N	16s	0.50um		
		1.2s		8.95nm	ZOBO	17.33	136	P	29 22.00 1.8				51 28.00	
SSF	144.83	341 ePKP	04	12.50 -1.7	CCH	19.47	135	P	30 15.50 29.4X	NJ2	60.08	317	Pd	43 39.20 -1.0
		1.2s		19.35nm	SIV	22.58	124	P	30 15.50 -2.1	WHN	62.32	313	eP	43 55.00 -0.4
LPG	145.04	336 ePKP	04	13.90 -1.1				S.D. = 1.2 on	9 of 10 obs.	DL2	62.82	325	eP	44 00.00 1.4
		1.3s		21.65nm						Z	20s	0.40um		4.6Msz
SMF	145.09	340 ePKP	04	13.00 -1.7					* JUN 04, 1990 10h 33m 37.88± 1.11s			eS	52 30.00	
		0.6s		6.30nm					11.063 S ± 3.9km	MDJ	63.08	334	eP	44 00.00 -0.2
AVF	145.12	341 ePKP	04	13.20 -1.5					162.867 E ± 3.9km	TIA	63.77	320	eP	44 03.90 -1.0
		0.6s		3.60nm					DEPTH = 69.4 ± 9.9 km	SNY	63.82	328	eP	44 08.20 3.1X
ITR	145.35	130 ePKP	04	08.10 -8.0X					5.1mb (26 obs.)	Z	20s	0.60um		4.8Msz
		e		04 14.10	SOLOMON ISLANDS					E	20s	0.50um		
BNI	145.44	336 PKP	04	16.00 0.5					CENTROID, MOMENT TENSOR (HRV)			eS	52 41.00	
SOI	145.55	319 PKP	04	16.00 0.3					Data Used: GDSN	CN2	64.34	331	Pc	44 08.00 -0.4
MAF	145.87	342 ePKP	04	16.10 0.0					L.P.B.: 15S, 25C	Z	20s	0.90um		5.0Msz
		1.3s		19.85nm					Centroid Location:	N	20s	1.00um		
TCF	145.92	342 ePKP	04	16.30 0.1					Origin Time	E	20s	0.40um		
		1.3s		14.45nm					10:33:31.3 0.8			eP	44 18.00	32kmX
SBF	146.11	334 ePKP	04	16.50 -0.1					Lat 11.29S 0.07 Lon 162.51E 0.09			eS	52 46.00	
		1.0s		24.00nm					Dep 49.0 6.9 Half-duration 1.6	ADK	65.13	14	eP	44 13.40 0.0
LSF	146.15	343 ePKP	04	16.80 0.3					Moment Tensor; Scale 10**16 Nm		0.8s	30.80nm		5.3mb
		1.4s		34.85nm					Mrr= 3.53 0.39 Mtt=-4.36 0.60	GYA	66.11	305	P	44 21.20 0.9
MFF	146.28	345 ePKP	04	18.80 2.1					Mff= 0.83 0.60 Mrt= 5.39 0.67	BJI	66.75	323	eP	44 24.00 0.0
		1.0s		12.00nm					Mrf= 0.70 0.58 Mtf=-0.31 0.47		1.0s	24.00nm		5.1mb
CAF	147.19	341 ePKP	04	21.60 3.4X					Principal Axes:	SBA	66.81	179	eP	44 20.20 -3.6X
		1.3s		10.85nm					T Val= 6.31 Plg=63 Azm=349	TIY	67.68	319	eP	44 30.00 0.0
BCAO	148.10	255 iPKPc	04	23.50 2.9X					N 0.84 3 84	Z	16s	1.00um		5.1MszX
		0.5s		12.00nm					P -7.14 27 175	E	16s	0.60um		
				04 27.00					Best Double Couple: Mo=6.7*10**16			S	53 28.00	
				S.D. = 1.0 on 88 of 100 obs.					NP1: Strike=272 Dip=18 Slip= 98	KMI	68.73	302	eP	44 37.50 0.5
									NP2: 83 72 87	CHG	69.66	295	eP	44 43.00 0.5
?	JUN 04, 1990	09h	47m	12.12± 1.07s	HNR	3.30	299	eP	34 28.00 -0.2	CHTO	69.66	295	eP	44 42.90 0.4
				44.429 N ±11.8km				eS	35 12.00		1.0s	5.00nm		4.4mb
				7.249 E ±10.9km	PVC	8.48	142	iPc	35 34.00 -6.4X		70.04	321	Pd	44 45.80 1.3
				DEPTH = 10.0km (geophysicist)	DZM	11.47	163	iPc	36 15.30 -5.8X	HHC	70.38	308	P	44 47.00 0.2
				NORTHERN ITALY (545)	KDB	15.54	274	eP	37 20.00 5.7X	CD2	70.86	320	eP	44 50.00 0.5
				ML 1.6 (GEN).	SVA	16.63	117	eP	37 28.60 0.5	BTO	70.86	320	eP	44 50.00 0.5
PZZ	0.13	306 P		47 15.39 0.0	CTA	18.33	239	iPc	37 48.80 -0.3	LZH	72.69	313	eP	45 01.00 0.4
		S		47 17.64				1.2s	318.75nm		2.0s	65.00nm		5.2mb
STV	0.19	164 P		47 16.52 0.1	BRS	18.81	209	iPc+	37 54.30 -0.5	Z	20s	0.40um		4.7Msz
		S		47 19.49				eS	41 33.00			eS	54 24.00	
ENR	0.24	149 P		47 17.13 -0.1	MNDI	19.60	283	eP	38 05.00 1.3	SDN	72.93	21	eP	45 00.00 -1.3
		S		47 20.51	RMO	20.31	219	iPd	38 11.00 0.2	GTA	77.05	315	P	45 26.00 0.6
ROB	0.47	107 P		47 21.64 0.0				1.0s	270.00nm		1.4s	100.00nm		5.6mb
		S		47 27.49	COO	21.93	206	iPc	38 27.90 0.8	Z	18s	0.50um		4.9Msz
				S.D. = 0.1 on 4 of 4 obs.				0.8s	89.00nm	SHL	78.05	299	eP	45 31.00 -0.3
&	JUN 04, 1990	10h	16m	29.10s	QLP	23.39	226	eP	38 42.00 0.7	SPA	79.01	180	iPd	45 31.00 -3.9X
				36.887 N	OIS	24.26	244	eP	38 50.00 0.1		1.1s	36.31nm		5.2mb
				121.633 W	CMS	25.72	215	iPd	39 03.50 0.0	SVW	79.03	19	ePc	45 36.20 0.5
				DEPTH = 3.0km	BWA	26.73	207	iPd	39 11.80 -1.0	TTA	80.28	18	ePc	45 42.80 0.3
				CENTRAL CALIFORNIA (39)	CNB	27.08	205	eP	39 16.00 0.0	PMR	81.57	21	eP	45 48.60 -0.4
				<BRK>. ML 2.5 (BRK).				0.8s	29.00nm		1.0s	9.30nm		4.7mb
SAO	0.19	129 iPd		16 32.70 -0.3	CAN	27.24	205	eP	39 17.50 0.1	Z	21s	0.80um		5.1Msz
GCC	0.32	296 iPc		16 35.40 -0.2	STK	28.55	220	iPd	39 29.30 0.1	TOA	82.96	22	ePc	45 57.30 0.9
		iS		16 40.90				0.8s	29.00nm	IMA	83.30	16	ePc	45 58.60 0.4
MHC	0.45	359 iPd		16 38.50 0.3	WB5	28.79	249	eP	39 30.50 -1.1		1.1s	15.60nm		4.9mb
		iS		16 47.40				e	46 21.90	MAW	83.64	202	iP	46 01.10 1.4
ARN	0.47	10 iPc		16 38.50 0.0	WRA	28.83	249	Pd	39 30.40 -1.5	PKI	84.18	299	P	46 04.20 0.5
PRS	0.59	159 iPd		16 40.20 -0.8				0.3s	4.90nm		0.6s	17.00nm		5.3mb
LLA	0.62	116 iPc		16 41.20 -0.2	TOO	30.67	208	iPd	39 48.40 0.4	FBA	84.24	19	ePc	46 02.00 -0.7
PCC	0.86	316 eP		16 44.70 -1.5				0.7s	365.00nm	GKN	84.95	300	P	46 07.60 0.3
PRI	1.08	133 e(P)		16 49.20 -0.9	BFD	31.79	212	iPc	39 58.10 0.2		0.7s	19.00nm		5.3mb
BRK	1.10	333 eP		16 50.00 -0.4				e	40 09.00	GCC	85.00	51	ePc	46 07.00 -0.1
ZSP	1.17	335 ePc		16 51.70 0.2	ADE	32.39	219	iPd	40 03.50 0.3	BRK	85.06	50	eP	46 07.30 -0.1
PHAM	1.45	136 eP		16 53.50 -2.7				1.0s	178.00nm	PRS	85.27	52	ePc	46 07.80 -0.7
CMB	1.52	41 eP		16 55.40 -1.8	KNA	33.47	258	eP	40 12.00 -0.7	SAO	85.34	51	eP	46 09.70 0.9
		eS		17 14.10	WARB	37.32	241	iPc	40 45.20 -0.2	MHC	85.36	51	ePc	46 10.20 1.1
										ARN	85.45	51	P	46 10.00 0.6

WDC	85.69	47 ePc	46 10.80	0.3
PRI	85.76	52 ePc	46 11.40	0.3
SYP	85.84	54 eP	46 13.00	1.5
ORV	86.14	49 eP	46 12.40	-0.3
CMB	86.52	50 ePc	46 14.50	-0.2
FRI	86.74	52 ePc	46 16.60	0.9
WMO	87.12	316 eP	46 18.00	0.5
PAS	87.17	55 eP	46 17.00	-0.9
MWC	87.28	55 eP	46 18.00	-0.7
ISA	87.33	53 eP	46 19.00	0.3
SBB	87.59	54 eP	46 20.00	0.0
RVR	87.77	55 eP	46 20.00	-0.7
BAR	88.01	56 eP	46 23.00	1.0
PLM	88.02	56 eP	46 22.00	-0.2
CLC	88.06	53 eP	46 23.00	0.8
KVN	88.52	50 P	46 24.00	-0.5
GSC	88.56	54 eP	46 04.00	-20.6X
TNP	88.94	51 P	46 26.10	-0.4
	0.8s	5.39nm		4.8mb
GLA	89.61	56 eP	46 30.00	0.4
INK	90.85	19 eP	46 34.50	0.1
NEW	91.61	41 P	46 36.00	-2.5
	1.1s	13.89nm		5.3mb
LRM	94.17	44 eP	46 50.90	0.3
IMW	94.85	46 P	46 54.00	0.2
BW06	95.65	48 P	46 57.70	0.3
	1.0s	3.00nm		4.7mb
SES	95.95	40 eP	46 58.00	-0.4
ALO	96.79	56 eP	47 02.00	-0.7
	1.0s	2.50nm		4.7mb
ZOBO	122.71	118 PKP	52 29.00	0.1
BUL	125.34	236 iPKPc	52 18.10	-15.3X
	0.7s	3.42nm		
APD	125.55	342 ePKP	52 31.20	-1.3
	0.5s	1.70nm		
NB2	125.95	343 PKP	52 33.10	-0.2
	0.9s	2.30nm		
SIV	128.88	121 PKP	52 39.30	-0.9
KHC	134.28	332 ePKP	52 54.20	4.7X
BCAD	144.08	262 iPKPd	53 07.00	-1.3
	0.7s	45.00nm		
		i	53 23.00	
ECRI	146.08	340 e(PKP)	53 15.00	4.1X
ETOR	147.51	338 e(PKP)	53 16.20	2.9X
GUD	148.39	341 ePKP	53 19.00	4.2X
TOL	149.04	340 ePKP	53 25.00	9.3X
				S.D. = 0.8 on 97 of 110 obs.

JUN 04, 1990 11h 26m 47.06± 0.65s
41.098 N ± 5.6km 83.638 W ± 8.6km
DEPTH = 5.0km (geophysicist)

OHIO (471)
mbLg 2.5 (NEIS). Felt (IV) at Findloy and (III) at Bloomdale and Vanlue.

AN3	0.56	194 P	26 59.10	0.7
UTO	0.57	5 P	26 58.30	-0.1
AN9	0.76	240 P	27 02.30	0.1
AN11	0.95	236 P	27 11.60	5.9X
CLE	1.63	75 iP	27 15.84	-0.7
DLA	2.34	41 P	27 28.70	1.9X
		S	27 59.70	
LDN	2.67	42 P	27 32.10	0.7
		S	28 06.00	
BLA	4.62	146 e(P)	28 00.00	0.8
TKL	5.43	181 e(P)	28 10.00	-0.7
GBTN	5.44	185 e(P)	28 10.00	-0.8
FVM	6.10	242 P	28 23.00	3.0X
				S.D. = 0.8 on 8 of 11 obs.

? JUN 04, 1990 11h 49m 38.16± 2.89s
2.153 N ± 12.4km 127.668 E ± 24.3km
DEPTH = 102.9 ± 28.5 km
4.3mb (1 obs.)

MOLUCCA PASSAGE (266)

MNI	2.91	256 ePd	50 23.50	-0.1
		eS	50 56.50	
AAI	5.82	175 eP	51 13.00	9.4X
WB5	22.86	164 eP	54 34.20	0.7
WRA	22.91	164 Pc	54 34.80	0.8
	0.2s	3.10nm		4.3mb
FORR	32.82	179 eP	56 02.60	-1.2
KLB	34.85	195 eP	56 21.00	-0.4
MAT	35.58	15 eP	56 27.00	-0.5
GUN	47.41	307 P	58 05.40	0.7

S.D. = 1.1 on 7 of 8 obs.

* JUN 04, 1990 12h 18m 24.11± 1.32s
11.110 S ± 13.0km 163.217 E ± 16.6km
DEPTH = 33.0km (normal)
4.3mb (2 obs.)

SOLOMON ISLANDS (193)

HNR	3.62	297 eP	19 20.00	0.7
		eS	20 00.00	
DZM	11.33	165 iPd	21 07.00	0.1
CTA	18.60	239 iPc	22 41.40	0.4
	0.9s	26.05nm		4.4mb
RMO	20.50	220 iPc	23 02.40	0.3
CMS	25.88	216 eP	23 54.50	-0.2
STK	28.74	221 iPc	24 20.70	0.0
	1.1s	7.00nm		4.3mb
WB5	29.10	249 eP	24 21.80	-2.3
TOO	30.79	208 eP	24 39.90	0.9
ADE	32.57	219 eP	24 55.00	0.3
GKN	85.27	300 P	31 00.00	0.5
EKA	134.60	349 Pd	34 44.00	2.8X
	1.9s	28.80nm		
BCAD	144.41	262 ePKPc	37 59.10	-0.6
	0.4s	5.00nm		

S.D. = 1.0 on 11 of 12 obs.

% JUN 04, 1990 14h 56m 46.39± 3.44s
45.838 N ± 12.2km 26.756 E ± 15.1km
DEPTH = 97.2 ± 33.5 km

ROMANIA (358)

VRI	0.04	326 iPc	56 59.00	-0.4
BRD	0.38	147 ePd	57 01.50	0.2
MLR	0.67	239 iPd	57 03.50	-0.1
ISR	0.72	192 ePd	57 04.50	0.5
CLI	0.80	27 iPc	57 05.00	0.2
PTT	1.13	347 eP	57 25.00	16.7X
CFR	1.18	123 iPc	57 09.00	0.1
TLB	1.54	144 iPd	57 13.00	-0.4
				S.D. = 0.5 on 7 of 8 obs.

& JUN 04, 1990 14h 59m 12.51s
60.473 N 143.190 W
DEPTH = 8.6km

SOUTHERN ALASKA (2)
<AGS-P>. ML 3.1 (PMR).

TGL	0.33	32 iP	59 19.62	0.2
		iS	59 25.82	
BALM	0.70	36 iP	59 25.54	-1.0
		iS	59 36.46	
PCA	1.51	103 iP	59 38.04	-1.8
		eS	59 57.59	
VLZ	1.68	295 eP	59 40.15	-2.0
		eS	00 02.50	
KLU	1.68	309 iP	59 40.76	-1.5
VZW	1.75	291 eP	59 40.87	-2.5
		eS	00 05.28	
GLI	1.96	284 eP	59 43.82	-2.5
YKU	1.97	116 eP	59 44.70	-1.7
TOA	2.18	320 iPc	59 49.40	-0.2
PAX	2.73	338 eP	59 56.13	-1.3
HYT	2.82	80 P	59 57.70	-1.1
SML	2.83	300 eP	59 56.89	-1.9
GHO	3.07	298 eP	00 00.94	-1.3
PLRM	3.10	294 eP	00 01.33	-1.2
PMR	3.10	294 ePc	00 04.00	1.5
PMS	3.21	287 eP	00 02.27	-1.9
DOT	3.21	353 eP	00 01.99	-2.2
PWA	3.46	293 eP	00 07.81	0.2
SLKM	3.48	274 eP	00 03.81	-4.2
SIT	5.34	126 eP	00 29.40	-4.8
IMA	7.33	324 eP	00 59.70	-2.8
				21 obs. associated

JUN 04, 1990 15h 22m 22.75± 1.16s
31.796 S ± 6.2km 68.320 W ± 9.3km
DEPTH = 10.0km (geophysicist)

SAN JUAN PROVINCE, ARGENTINA (137)
Felt (II) in the San Juan area.

RTCV	0.20	251 iPc	22 27.00	-0.1
CFA	0.20	20 iPc	22 26.90	-0.3
ZON	0.39	309 iPd	22 30.00	-0.9
		eS	22 37.00	
RTLL	0.48	345 iPc	22 32.00	-0.6

RTCB	0.51	307 iPd	22 33.50	0.3
RTBS	0.90	278 ePd	22 41.20	0.0
MDZ	1.17	202 eP	22 44.60	-0.1
		iS	23 02.70	
RTRS	1.89	329 iPd	22 57.00	1.6
				S.D. = 0.9 on 8 of 8 obs.

* JUN 04, 1990 16h 35m 04.37± 1.59s
50.107 N ± 6.2km 128.942 W ± 15.2km
DEPTH = 10.0km (geophysicist)
4.4mb (2 obs.)

VANCOUVER ISLAND REGION (25)

PHC	1.14	58 Pd	35 27.17	1.5
EDB	1.20	101 Pd	35 25.91	-0.8
GDR	1.91	99 P	35 36.17	-1.0
BBB	2.15	14 Pd	35 40.70	0.1
		S	36 09.00	
CBB	2.31	90 P	35 43.10	0.1
BTB	2.31	105 P	35 41.55	-1.6
		S	36 13.72	
MGB	2.98	110 P	35 52.20	-0.5
		S	36 28.56	
JCW	4.98	110 P	36 21.10	0.1
BMW	5.27	131 P	36 25.80	0.7
LMW	5.61	125 P	36 31.71	1.8X
FMW	5.78	121 P	36 32.85	0.5
KMOR	5.78	139 P	36 32.61	0.3
KOSW	5.80	126 P	36 32.87	0.4
FL2	5.90	129 P	36 34.83	0.9
LVP	5.96	130 P	36 33.36	-1.4
CDFW	6.10	128 P	36 37.46	0.7
ETW	6.21	110 P	36 38.77	0.4
ASR	6.31	126 P	36 39.59	-0.3
YKA	14.69	27 eP	38 32.50	-1.3
	0.6s	2.80nm		4.0mb
FFC	17.03	64 eP	39 05.00	1.1
	0.7s	67.00nm		4.9mb
				S.D. = 0.9 on 19 of 20 obs.

* JUN 04, 1990 17h 03m 32.47± 2.21s
31.778 S ± 11.8km 69.886 W ± 12.8km
DEPTH = 133.1 ± 29.5 km

SAN JUAN PROVINCE, ARGENTINA (137)

RTBS	0.39	73 ePc	03 51.20	-0.3
RTCB	0.97	73 eP	03 56.00	0.2
		S	04 11.50	
JACH	1.00	213 iPd	03 57.00	0.2
		iS	04 14.50	
RTCV	1.15	94 iPc	03 57.50	0.0
		(S)	04 14.00	
RTLL	1.29	70 iPc	03 57.40	-1.5
		eS	04 16.20	
CFA	1.41	84 iP	04 00.50	0.3
		eS	04 20.40	
ROCH	1.52	218 iPd	04 01.00	-0.7
		iS	04 22.00	
FCH	1.58	192 iPc	04 03.50	1.1
		iS	04 26.20	
RTRS	1.64	13 iPc	04 03.70	1.0
PCH	1.91	196 eP	04 07.70	1.6
		iS	04 32.00	
TACH	2.07	205 iP	04 07.60	-0.3
		iS	04 34.00	
LCCH	2.21	220 iPd	04 09.10	-0.5
LNV	2.52	210 iPc	04 12.50	-1.1
		iS	04 42.00	
				S.D. = 1.0 on 13 of 13 obs.

? JUN 04, 1990 19h 08m 33.65± 6.34s
35.849 N ± 54.9km 9.586 E ± 9.1km
DEPTH = 10.0km (geophysicist)

TUNISIA (397)

ZGN	0.68	39 iPc	08 47.00	-0.1
MBZ	1.20	47 iPc	08 56.00	-0.1
PGF	6.71	356 Pn	10 16.00	1.3
LMR	7.84	343 Pn	10 31.30	0.8
		Sn	11 55.60	
LRG	7.99	343 Pn	10 31.80	-0.7
FRF	8.03	345 Pn	10 32.10	-1.0
		Sn	11 57.80	
SBF	8.17	349 Pn	10 35.00	-0.2
EPF	10.12	318 Pn	11 02.80	0.7
CAF	10.72	330 Pn	11 09.40	-0.9
				S.D. = 0.9 on 9 of 9 obs.

? JUN 04, 1990 20h 01m 43.66±2.12s
51.350 N ±34.4km 174.906 W ±19.7km
DEPTH = 33.0km (normal)
4.2mb (2 obs.)

ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK 1.23 296 iPd 02 04.60 0.0
IMA 18.26 28 eP 06 01.00 5.1X
MAT 36.20 264 eP 08 45.00 0.0
NB2 67.86 357 P 12 40.80 0.6
0.7s 1.00nm 4.0mb
HFS 68.65 355 eP 12 44.50 -0.6
0.5s 1.80nm 4.4mb
S.D. = 0.8 on 4 of 5 obs.

? JUN 04, 1990 20h 30m 17.58±3.89s
37.450 N ±15.2km 19.334 E ±32.5km
DEPTH = 10.0km (geophysicist)

IONIAN SEA (399)
ML 3.8 (ATH).

VLS 1.23 53 ePg 30 41.00 0.5
ITM 2.08 97 ePg 30 48.20 -4.8X
KEK 2.29 9 ePg 31 15.00 19.0X
VLI 2.97 103 ePn 31 06.00 0.4
ATH 3.51 80 ePg 31 14.10 0.8
NEO 3.57 58 ePn 31 12.50 -1.7
OHR 3.83 17 ePn 31 29.50 11.6X
VAM 4.42 116 ePn 31 25.90 -0.3
VAY 4.61 32 ePn 31 13.50 -15.3X
SKO 4.80 19 ePn 31 32.00 0.4
S.D. = 1.2 on 6 of 10 obs.

* JUN 04, 1990 21h 16m 41.09±0.51s
14.450 S ±9.6km 167.862 E ±10.9km
DEPTH = 33.0km (normal)
4.5mb (8 obs.)

VANUATU ISLANDS (186)

DZM 7.70 190 iPd 18 32.10 -1.7
iS 19 59.20
RMO 21.50 233 eP 21 31.00 1.7
STK 29.61 230 iPd 22 46.70 1.1
0.8s 9.00nm 4.6mb
WB5 32.42 256 eP 23 08.80 -1.6
WRA 32.45 256 P 23 10.00 -0.7
0.7s 2.50nm 4.2mb
FORR 39.92 239 eP 24 14.30 0.4
NANU 50.07 253 iPd 25 35.30 0.2
0.4s 5.00nm 4.9mb
NJ2 65.88 315 Pd 27 25.00 -0.9
WHN 68.18 312 eP 27 41.00 0.5
TIA 69.51 318 eP 27 47.50 -1.1
CN2 69.70 329 Pc 27 49.00 -0.6
GYA 72.03 304 P 28 04.00 -0.2
BJI 72.41 321 eP 28 04.50 -1.5
TIY 73.45 317 eP 28 12.40 0.1
XAN 73.93 312 P 28 15.20 0.1
KMI 74.65 301 eP 28 20.00 0.3
PP 28 28.00
CHTO 75.49 294 eP 28 24.60 0.3
1.0s 4.00nm 4.4mb
CD2 76.30 307 eP 28 28.00 -0.8
BTO 76.59 318 eP 28 30.00 -0.3
LZH 78.56 312 eP 28 41.50 0.2
2.5s 56.00nm 5.1mb
TTA 82.10 16 P 28 57.80 -1.6
GTA 82.89 314 P 29 04.80 0.7
PMR 83.05 19 eP 29 04.00 -0.3
IMA 85.23 15 eP 29 16.80 1.4
PLM 85.96 54 P 29 20.00 0.2
KVN 87.03 49 P 29 23.80 -1.1
TNP 87.33 50 P 29 26.00 -0.4
0.7s 2.04nm 4.5mb
MSU 91.22 51 P 29 47.00 2.3
WMO 92.94 314 eP 29 53.00 0.7
GBA 93.72 283 P 29 59.00 2.7
0.9s 2.60nm 4.7mb
YKA 97.04 27 eP 30 10.60 0.1
0.8s 0.70nm 4.2mb
S.D. = 1.1 on 31 of 31 obs.

JUN 04, 1990 21h 40m 24.37±0.76s
23.666 N ±7.3km 94.502 E ±5.6km
DEPTH = 83.7 ± 8.2 km
4.4mb (18 obs.)

BURMA-INDIA BORDER REGION (294)

SHL 3.04 309 iP 41 12.50 1.1
iS 41 46.60
CHG 6.36 139 eP 41 56.50 -0.9
CHTO 6.36 139 ePn 41 56.00 -1.4
LSA 6.72 334 Pd 42 04.80 2.1
0.7s 160.00nm 5.6mb X
KMI 7.65 77 eP 42 17.50 2.1
GUN 8.85 300 P 42 30.60 -1.3
PKI 9.08 297 P 42 33.60 -1.5
GKN 9.88 298 P 42 43.60 -2.2
CD2 10.94 47 eP 42 59.70 -0.2
GYA 11.37 73 P 43 06.40 0.7
LZH 14.78 31 eP 43 54.00 3.6X
0.7s 23.00nm 4.5mb
HYB 16.17 250 ePc 44 13.00 5.0X
NDI 16.30 292 iPd 44 13.00 3.5X
1.0s 45.00nm 4.6mb
iS 46 56.00
XAN 16.30 47 P 44 10.10 0.5
GTA 16.33 15 eP 44 05.60 -4.4X
WHN 18.94 64 eP 44 46.00 4.5X
GBA 19.00 241 Pc 44 43.80 1.6
0.8s 3.80nm 3.7mb
TIY 20.78 43 eP 44 58.80 -1.9
WMO 20.87 346 eP 45 02.00 0.4
KOD 21.04 233 eP 45 06.00 2.3
22.22 319 eP 45 18.50 3.4X
PRNI 52.93 291 ePd 49 30.50 -3.8X
MBH 53.11 290 eP 49 27.00 -8.6X
WRA 58.20 135 Pc 50 11.20 -1.0
0.6s 4.00nm 4.7mb
SUF 59.33 330 iP 50 19.40 -0.1
0.5s 4.50nm 4.9mb
UPP 63.28 327 iP 50 45.60 -0.5
HFS 65.24 327 eP 50 58.00 -0.8
0.7s 5.80nm 4.6mb
NB2 66.37 328 P 51 06.10 -0.1
0.9s 3.10nm 4.2mb
CDF 70.90 315 eP 51 34.10 -0.4
LPG 72.00 312 eP 51 41.40 0.1
0.8s 4.05nm 4.4mb
LPL 72.01 312 eP 51 41.30 0.0
0.8s 5.35nm 4.5mb
LBF 73.43 314 eP 51 48.80 -0.6
0.6s 2.70nm 4.3mb
SMF 73.62 314 eP 51 50.10 -0.3
0.8s 4.05nm 4.4mb
SSF 73.72 315 eP 51 50.80 -0.2
0.6s 1.80nm 4.1mb
AVF 73.90 314 eP 51 51.70 -0.3
0.8s 2.70nm 4.2mb
TCF 74.80 314 eP 51 57.60 0.3
0.6s 1.80nm 4.1mb
EKA 75.07 324 P 51 59.00 0.4
0.6s 1.90nm 4.2mb
CAF 75.33 313 eP 52 00.80 0.4
0.6s 2.25nm 4.2mb
LSZ 75.46 246 iPd 52 03.00 1.4
0.5s 9.40nm 4.9mb
eLg 58 10.00
LPO 76.00 313 eP 52 04.50 0.4
0.6s 3.60nm 4.4mb
S.D. = 1.2 on 32 of 40 obs.

JUN 04, 1990 23h 00m 09.84±1.57s
6.257 S ±24.4km 77.239 W ±41.8km
DEPTH = 10.0km (geophysicist)
4.7mb (3 obs.)

NORTHERN PERU (111)
Felt (V) in the Rioja-Moyobamba area.

TUNG 4.96 346 eP 01 26.10 -0.3
VC1 5.70 348 eP 01 36.90 -0.2
NNA 5.71 176 iPd 01 42.00 5.2X
0.7s 73.29nm 5.5mb
eS 02 48.50
PT08 5.71 173 eP 01 44.00 6.9X
eS 02 55.60
PT10 5.79 177 eP 01 43.00 5.1X
i 01 44.50
eS 02 54.00
GGP 6.19 347 P 01 49.30 5.2X
CAYA 6.34 353 eP 01 45.00 -1.2
COTA 6.64 350 eP 01 55.00 4.6X

PT03 7.82 170 iP 02 03.60 -2.8X
ZOBO 13.37 139 P 03 26.00 3.2X
Z 20s 0.41um
S 06 20.00
LR 09 24.00

LPB 13.58 140 P 03 24.00 -1.4
LR 09 28.00
CCH 15.49 137 P 03 59.00 8.6X
SIV 18.56 123 P 04 29.60 0.7
FRB 70.12 4 eP 11 26.00 2.0
KIC 73.43 81 P 11 48.10 3.3X
YKA 74.28 343 eP 11 47.80 -1.0
0.6s 1.50nm 4.2mb
INK 83.99 342 eP 12 41.00 -0.3
MBC 85.91 351 eP 12 52.50 1.7
1.0s 5.00nm 4.6mb
LZH 150.30 358 PKP 20 05.00 6.8X
S.D. = 1.4 on 9 of 19 obs.

% JUN 04, 1990 23h 18m 04.52±2.12s
44.541 N ±12.7km 6.917 E ±23.7km
DEPTH = 10.0km (geophysicist)

FRANCE (538)
ML 1.8 (GEN).

PZZ 0.14 105 P 18 07.69 -0.2
S 18 10.05
RRL 0.39 346 P 18 12.61 0.0
S 18 18.56
STV 0.42 135 P 18 12.71 -0.3
S 18 18.76
ENR 0.48 131 P 18 14.76 0.5
S 18 21.02
RSP 0.66 21 P 18 17.74 0.0
S 18 25.63
S.D. = 0.5 on 5 of 5 obs.

% JUN 04, 1990 23h 33m 23.61±1.55s
0.383 S ±5.7km 77.886 W ±12.0km
DEPTH = 10.0km (geophysicist)

ECUADOR (107)
Felt (I) at Quito.

GECU 0.31 282 iP 33 30.00 -0.3
CAYA 0.47 348 iP+ 33 33.00 -0.3
eS 33 39.40
VC1 0.57 244 iPd 33 35.40 -0.2
OTO 0.67 286 iP 33 37.60 0.4
OUR 0.68 288 iPd 33 37.30 0.0
iS 33 47.20
GGP 0.74 286 iP 33 38.50 0.0
eS 33 47.50
COTA 0.84 328 P 33 40.60 0.3
eS 33 52.10
TUNG 1.17 209 P 33 45.80 0.1
iS 34 02.50
S.D. = 0.3 on 8 of 8 obs.

JUN 05, 1990 00h 00m 20.04±0.91s
37.642 N ±8.5km 20.629 E ±7.7km
DEPTH = 10.0km (geophysicist)
3.5mb (2 obs.)

IONIAN SEA (399)
ML 3.5 (ATH).

VLS 0.54 357 ePg 00 31.00 0.1
ITM 1.13 114 ePb 00 40.50 -0.8
VLI 2.06 116 ePg 01 02.00 6.9X
KEK 2.17 343 ePb 00 59.50 2.8X
ATH 2.47 81 ePb 01 02.20 1.3
NEO 2.63 50 ePn 01 02.80 -0.5
OHR 3.47 2 iPn 01 15.30 0.1
VAY 3.97 22 ePn 01 23.50 1.3
SKO 4.37 8 ePn 01 27.50 -0.4
i 01 39.50
MEU 4.57 265 P 01 31.60 0.7
eSn 02 24.10
HFS 22.94 351 eP 05 23.50 -1.6
0.6s 1.40nm 3.7mb
NB2 24.16 349 P 05 36.80 -0.2
0.8s 0.70nm 3.3mb
S.D. = 1.0 on 10 of 12 obs.

& JUN 05, 1990 01h 19m 17.70s
41.185 N 121.415 W
DEPTH = 12.0km
NORTHERN CALIFORNIA (36)

<BRK>. ML 2.9 (BRK).				OHR				DEPTH = 95.6 ± 46.6 km									
MIN	0.85	190	ePd	19 32.40	-1.6	0.91	59	iPgd	19 12.60	-0.1	SAN JUAN PROVINCE, ARGENTINA (137)						
			iS	19 44.60				iSg	19 26.60		RTLL	0.00	226	iPc	05 55.70	-0.1	
WDC	1.05	235	iPd	19 35.50	-1.7			Lg	19 28.40		CFA	0.36	157	iPd	05 56.70	0.1	
			iS	19 50.40				ePg	19 19.30	-1.1				eS	06 08.50		
LTCM	1.11	209	eP	19 37.00	-1.4	LCI	1.41	258	P	19 21.00	0.1	RTCB	0.40	238	iPd	05 57.00	0.1
ORV	1.63	182	e(P)	19 42.20	-4.1			eSg	19 38.00					S	06 08.00		
			e	19 46.80		TTG	1.82	348	ePn	19 27.30	0.5	RTCV	0.60	191	ePd	05 58.20	-0.1
KVN	3.32	129	eP	20 09.50	-1.1			eSn	19 48.70					(S)	06 10.40		
			5 obs. associated			PVY	1.95	5	ePn	19 29.00	0.2	RTBS	0.98	246	ePc	06 02.00	0.0
								eSn	19 54.00					S	06 16.80		
& JUN 05, 1990 02h 04m 57.22s				S.D. = 0.7 on 6 of 6 obs.				S.D. = 0.2 on 6 of 6 obs.									
64.016 N 148.156 W				? JUN 05, 1990 04h 50m 52.19 ± 2.63s				? JUN 05, 1990 06h 48m 42.11 ± 0.96s									
DEPTH = 105.8km				17.759 S ± 32.8km 178.590 W ± 49.7km				53.203 N ± 18.3km 160.595 E ± 25.8km									
CENTRAL ALASKA (1)				DEPTH = 571.4 ± 8.3 km				DEPTH = 33.0km (normol)									
<AGS-P>.				4.6mb (4 obs.)				4.5mb (5 obs.)									
MCK	0.45	231	iP	05 13.43	-0.1	FIJI ISLANDS REGION (181)				NEAR EAST COAST OF KAMCHATKA (218)							
			eS	05 25.03		TVI	1.61	301	iPc	52 02.80	-1.1	MAT	22.05	232	iPc	53 44.40	1.0
WRH	0.46	4	iP	05 13.46	-0.1	KRO	1.98	283	iPc	52 03.60	-1.6		0.8s	24.63nm		4.7mb	
CCB	0.65	13	iP	05 14.59	-0.4	NDE	2.32	300	iPc	52 06.10	0.2	YKA	42.88	43	eP	56 39.10	0.7
			eS	05 27.23		OVA	2.50	271	eP	52 06.90	0.1		0.7s	0.40nm		3.3mb X	
HDA	0.66	53	iP	05 14.83	-0.2	MBU	2.68	287	iPc	52 08.40	0.7	FRB	57.29	24	eP	58 46.00	17.7X
			eS	05 28.01		VUN	2.82	265	eP	52 08.70	0.3	SUF	59.01	337	iP	58 40.60	0.2
RND	0.69	207	iP	05 14.91	-0.5	SVV	2.83	262	ePc	52 09.30	0.8		0.5s	3.30nm		4.7mb	
NEA	0.69	325	eP	05 15.04	-0.3	SGE	3.33	272	iPc	52 12.60	0.9	NB2	63.52	344	P	59 10.20	-0.7
FBA	0.90	10	iP	05 16.88	-0.4	YSA	3.81	286	ePc	52 14.70	-0.1		0.8s	1.50nm		4.2mb	
ODM	1.04	102	iP	05 18.56	-0.3	DZM	14.71	251	iPc	54 01.10	3.0X	GBA	75.15	273	Pc	00 22.60	-0.2
HUR	1.24	213	eP	05 20.64	-0.4	TOO	37.13	231	iPc	57 16.60	0.2		0.8s	5.20nm		4.6mb	
			eS	05 37.95				0.6s	55.00nm		5.4mb	WB5	76.24	205	eP	00 26.90	-1.9
KTH	1.31	251	iP	05 21.57	-0.4	STK	38.55	241	iPd	57 28.40	0.4	WRA	76.31	205	P	00 30.00	0.8
PAX	1.60	130	eP	05 25.17	-0.3			0.6s	8.00nm		4.5mb		0.9s	2.40nm		4.2mb	
			eS	05 46.65		WB5	44.47	259	eP	58 13.80	-1.3		S.D. = 1.3 on 7 of 8 obs.				
DOT	1.85	100	eP	05 27.47	-1.2	WRA	44.49	259	Pc	58 14.30	-0.9	JUN 05, 1990 07h 51m 42.59 ± 0.81s					
			eS	05 50.35				0.4s	8.90nm		4.6mb	37.778 N ± 8.8km 20.848 E ± 7.9km					
NCA	2.12	163	eP	05 31.61	-0.5	CHTO	88.79	290	eP	02 48.30	1.2	DEPTH = 10.0km (geophysicist)					
TOA	2.12	154	eP	05 31.91	-0.3			0.9s	1.49nm		3.9mb	3.7mb (2 obs.)					
SML	2.22	182	iP	05 33.18	-0.2	S.D. = 1.0 on 14 of 15 obs.				IONIAN SEA (399)							
GHO	2.28	189	eP	05 34.01	-0.3	& JUN 05, 1990 05h 23m 42.11s				ML 3.7 (ATH).							
PLRM	2.47	191	eP	05 36.65	-0.1	62.926 N 150.799 W											
PWA	2.50	199	eP	05 37.16	0.0	DEPTH = 112.9km											
SKT	2.56	219	eP	05 36.60	-1.3	CENTRAL ALASKA (1)											
KLU	2.73	157	eP	05 39.90	-0.4	<AGS-P>.											
SUA	2.83	206	eP	05 42.12	0.5	HUR	0.53	84	iP	23 59.35	-0.4	VLS	0.45	333	ePg	51 51.00	-0.7
PMS	2.86	194	eP	05 42.10	0.2	CUT	0.58	155	iP	23 59.85	-0.2	ITM	1.04	125	ePg	52 01.50	-0.8
GLI	3.19	171	eP	05 44.82	-1.6			iS	24 13.59		VLI	1.97	122	ePg	52 20.50	4.1X	
NCG	3.20	217	eP	05 46.29	-0.4	KTH	0.63	355	iP	24 00.23	-0.3	KEK	2.10	337	ePg	52 25.70	7.5X
			24 obs. associated			MCK	1.17	45	eP	24 05.32	-0.3	ATH	2.28	84	ePb	52 25.10	4.3X
? JUN 05, 1990 02h 54m 04.83 ± 2.80s				RAT ISLANDS, ALEUTIAN ISLANDS (6)				GHO									
51.552 N ± 47.6km 179.585 E ± 11.8km				ADK				1.45									
DEPTH = 33.0km (normol)				SMY				1.45									
4.0mb (2 obs.)				IMA				1.45									
				MBC				1.45									
				YKA				1.45									
				NB2				1.45									
				S.O. = 1.6 on 6 of 6 obs.				SUA									
								PLRM									
								SML									
								NCG									
								CGLM									
								PMS									
								NEA									
								WRH									
								HDA									
								TOA									
								PAX									
								SLKM									
								RDT									
								GLI									
								KLU									
								VLZ									
								SEW									
								SVW									
								DOT									
								CNPM									
								BALM									
								28 obs. associated									
								? JUN 05, 1990 06h 05m 41.93 ± 5.13s									
								31.274 S ± 16.2km 68.403 W ± 26.7km									
								IZI									
								ALT									
								YLV									
								KCT									

05d 08h

HRT 1.18 8 ePn 05 04.10 0.5
S.D. = 0.5 on 5 of 5 obs.

JUN 05, 1990 09h 03m 27.51± 0.45s
42.571 N ± 4.6km 111.381 W ± 5.3km
DEPTH = 5.0km (geophysicist)

EASTERN IDAHO (457)
ML 3.7 (SLC). Felt (IV) at
Georgetown and (III) at Geneva.

Table with columns: Station, Value, Unit, Value, Unit. Includes stations PTI, BW06, IMW, HPI, DAU, DUG, BGMT, MEMT, LRM, SXM, MSU, HRY, GOL, GLD, RSSD, KVN, TNP, ALO.

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

& JUN 05, 1990 09h 16m 48.10s
38.805 N 122.797 W
DEPTH = 4.0km
NORTHERN CALIFORNIA (36)
<BRK>. ML 2.8 (BRK).

Table with columns: Station, Value, Unit, Value, Unit. Includes stations NWRM, ZSP, BRK, BKS, ORV, PCC, MHC, ARN, WDC, MIN, GCC, CMB, SAO, FRI, KVN.

15 obs. associated

JUN 05, 1990 09h 38m 33.08± 0.76s
39.893 N ± 7.1km 20.495 E ± 8.4km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 3.2 (ATH).

Table with columns: Station, Value, Unit, Value, Unit. Includes stations KEK, OHR, VLS, VAY, NEO, SKO, ITM.

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

* JUN 05, 1990 10h 15m 01.28± 1.12s
16.689 N ± 9.4km 61.594 W ± 12.2km
DEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)
ML 2.2 (FDF).

Table with columns: Station, Value, Unit, Value, Unit. Includes stations SEG, BPA, SFG, MGH.

PAG 0.66 187 eP 15 14.30 -0.2
S 15 23.60

BBL 1.16 174 eP 15 22.20 -0.9
S 15 38.00
S.D. = 1.0 on 6 of 6 obs.

* JUN 05, 1990 11h 32m 47.75± 1.78s
14.440 S ± 8.5km 167.770 E ± 13.2km
DEPTH = 53.8 ± 14.9 km
4.7mb (10 obs.)

VANUATU ISLANDS (186)

Table with columns: Station, Value, Unit, Value, Unit. Includes stations PVC, DZM, HNR, BRS, RMO, COO, CMS, CNB, STK, TOO, WB5, WRA, MAT, SSE, NJ2, CN2, GYA, BJI, TIY, XAN, KMI, CHG, CHTO, CD2, BTO, LZH, GTA, YKA, LOR, LBF, SSF, SMF, ITR, BCAA.

S.D. = 1.1 on 29 of 34 obs.

% JUN 05, 1990 11h 37m 30.66± 0.88s
39.270 N ± 7.2km 29.462 E ± 10.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

Table with columns: Station, Value, Unit, Value, Unit. Includes stations ALT, KHL, IZI, YLV, KCT.

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

JUN 05, 1990 12h 19m 28.46± 0.68s
42.642 N ± 7.4km 111.370 W ± 6.2km
DEPTH = 5.0km (geophysicist)
EASTERN IDAHO (457)
ML 3.3 (SLC).

Table with columns: Station, Value, Unit, Value, Unit. Includes stations PTI, IMW, BW06, HPI, DAU.

DUG 2.67 204 eP 20 13.10 0.0
MSU 4.17 189 eP 20 35.00 0.6
GOL 5.40 121 eP 20 51.20 -0.6
KVN 6.24 237 eP 21 06.00 2.4X
TNP 6.38 226 e(P) 21 08.50 2.9X
S.D. = 0.6 on 7 of 10 obs.

* JUN 05, 1990 13h 06m 52.72± 2.74s
32.027 S ± 13.2km 71.814 W ± 25.2km
DEPTH = 31.0 ± 7.1 km
NEAR COAST OF CENTRAL CHILE (135)

Table with columns: Station, Value, Unit, Value, Unit. Includes stations IMA, ROCH, JACH, LCCH, SAN, TACH, FCH, PCH, LNV, RTBS, CHCH, RTCB, ZON, RTRS, RTCV, RTLL, CFA.

S.D. = 1.4 on 16 of 17 obs.

& JUN 05, 1990 13h 10m 21.20s
41.175 N 119.880 W
DEPTH = 27.0km
NEVADA (37)
<BRK>. ML 3.5 (BRK).

Table with columns: Station, Value, Unit, Value, Unit. Includes stations MIN, LTCM, ORV, WDC, KVN.

5 obs. associated

? JUN 05, 1990 13h 17m 48.22± 7.11s
30.608 S ± 31.0km 72.344 W ± 52.1km
DEPTH = 33.0km (normal)
OFF COAST OF CENTRAL CHILE (134)

Table with columns: Station, Value, Unit, Value, Unit. Includes stations RTRS, RTBS, PEL, RTCB, ZON, RTLL, RTCV, CFA.

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

JUN 05, 1990 13h 32m 52.77± 0.82s
33.188 S ± 6.1km 70.982 W ± 6.8km
DEPTH = 10.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

Table with columns: Station, Value, Unit, Value, Unit. Includes stations ROCH, PEL, SAN.

0.9s 8.40nm
iPc 02 33.90
SPA 125.23 180 iPKPc 01 38.00 0.0
0.9s 16.36nm
TIC 126.21 314 PKP 01 41.40 0.0
KIC 126.27 313 PKP 01 41.60 0.1
LIC 126.55 313 PKP 01 42.10 0.1
ARE 146.88 63 e(PKP) 02 07.00 -12.4X
ZOBO 149.16 59 PKP 02 25.40 2.0
i 02 29.00
LPB 149.36 59 PKP 02 18.00 -5.5X
CCH 151.30 58 PKP 02 33.80 7.5X
ITR 153.37 354 ePKP 02 36.90 7.9X
SIV 153.59 48 PKP 02 30.00 0.8
S.D. = 0.9 on 256 of 268 obs.

* JUN 05, 1990 19h 16m 48.40 ± 3.28s
45.677 N ± 15.1km 26.696 E ± 16.0km
DEPTH = 69.9 ± 34.2 km

ROMANIA (358)

VRI 0.19 6 iPc 16 58.00 -1.1
BRD 0.30 123 ePc 17 00.00 0.3
ISR 0.55 191 ePc 17 03.00 1.1
MLR 0.56 251 iP 17 02.00 -0.1
PPE 0.84 50 ePc 17 06.00 0.9
CFR 1.14 115 iPc 17 18.00 9.1X
TLB 1.44 139 iPd 17 12.00 -0.9
S.D. = 1.4 on 6 of 7 obs.

? JUN 05, 1990 20h 15m 11.94 ± 1.74s
15.756 S ± 46.1km 73.363 W ± 24.3km
DEPTH = 66.4 ± 17.9 km
4.1mb (2 obs.)

SOUTHERN PERU (117)

ARE 1.93 112 iPc 15 43.80 0.4
PT03 2.94 306 iPd 15 56.10 -1.1
IS 16 10.00
PT06 3.45 303 iPd 16 04.00 -0.5
IS 16 43.20
PT08 4.88 320 iPd 16 26.30 1.4
IS 17 25.80
NNA 5.04 318 eP 16 27.00 0.1
0.5s 8.45nm 4.2mb
i 16 30.00
ZOBO 5.06 96 iPc 16 32.00 4.3X
0.4s 51.76nm 5.1mb X
Z 25s 0.13um 4.7Msz
LR 18 30.00
LPB 5.12 99 P 16 28.00 -0.3
CCH 7.11 104 P 16 57.40 1.5
SIV 11.83 93 P 17 58.20 -1.8
YKA 84.42 342 eP 27 38.50 0.5
0.9s 1.30nm 4.0mb
S.D. = 1.4 on 9 of 10 obs.

? JUN 05, 1990 20h 29m 26.23 ± 0.91s
31.422 S ± 10.4km 69.137 W ± 9.0km
DEPTH = 33.0km (normal)

SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.30 103 iPd 29 37.00 3.0X
S 29 51.00
RTBS 0.36 228 iPd 29 35.20 0.4
RTL 0.58 81 iPc 29 39.00 1.0
eS 29 54.20
RTC 0.67 131 eP 29 38.50 -0.8
CFA 0.79 104 iPc 29 40.80 -0.1
eS 29 57.10
RTRS 1.28 347 iPc 29 47.40 -0.5
S.D. = 1.0 on 5 of 6 obs.

? JUN 05, 1990 20h 29m 53.36 ± 4.48s
43.877 N ± 24.2km 7.194 E ± 21.7km
DEPTH = 10.0km (geophysicist)

NEAR SOUTH COAST OF FRANCE (379)

ML 2.0 (GEN).
STV 0.38 14 P 30 01.20 0.0
S 30 07.25
ENR 0.39 25 P 30 01.20 -0.1
S 30 07.25
IMI 0.50 86 P 30 03.56 0.0
S 30 10.74
PZZ 0.63 354 P 30 06.12 0.0
S 30 14.63

ROB 0.64 49 P 30 06.33 0.1
S 30 14.94
S.D. = 0.1 on 5 of 5 obs.

? JUN 05, 1990 20h 31m 16.61 ± 9.19s
43.775 N ± 63.3km 7.170 E ± 18.6km
DEPTH = 10.0km (geophysicist)

NEAR SOUTH COAST OF FRANCE (379)

MD 1.0 (STR).

MVIF 0.12 354 Pg 31 19.86 0.1
Sg 31 21.16
AURF 0.16 45 Pg 31 20.09 -0.3
TOUF 0.24 13 Pg 31 21.75 -0.2
AUTN 0.29 40 Pg 31 23.11 0.4
Sg 31 26.99
S.D. = 0.5 on 4 of 4 obs.

? JUN 05, 1990 20h 43m 12.27 ± 2.70s
14.639 N ± 31.0km 93.782 W ± 13.7km
DEPTH = 66.4 ± 18.5 km
4.0mb (1 obs.)

NEAR COAST OF CHIAPAS, MEXICO (69)

TPX 1.50 80 eP 43 37.24 -0.2
iS 43 51.70
SCX 2.36 28 iP 43 49.79 0.4
iS 44 14.36
PSM 2.38 330 iP 43 50.80 0.9
iS 44 15.73
OXX 3.73 311 eP 44 09.00 0.1
iS 44 53.00
LVVM 5.67 334 iP 44 34.50 -1.5
(S) 45 34.34
PPM 6.39 314 (P) 44 51.80 5.3X
(S) 45 45.50
YKA 50.02 348 eP 52 02.00 0.3
0.5s 0.80nm 4.0mb
S.D. = 1.3 on 6 of 7 obs.

% JUN 05, 1990 21h 04m 25.35 ± 1.64s
27.837 N ± 15.0km 17.995 W ± 15.8km
DEPTH = 33.0km (normal)

CANARY ISLANDS REGION (394)

mbLg 3.6 (MDD). Felt (III) on Hierro.

CHIE 0.11 164 iP 04 31.40 0.2
TBT 0.84 5 iP 04 40.50 -0.3
IS 04 52.20
CTFE 1.66 67 iP 04 54.00 1.5
IS 05 13.20
GGC 2.10 82 iP 04 58.50 -0.5
IS 05 22.70
CFTV 3.50 80 iP 05 18.00 -0.9
i 05 56.20
S.D. = 1.3 on 5 of 5 obs.

* JUN 05, 1990 21h 49m 51.11s
59.652 N 151.785 W
DEPTH = 63.1km

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

XLV 0.20 171 iP 50 00.16 -0.9
eS 50 07.76
CNPM 0.31 114 iP 50 01.34 -0.4
IS 50 09.34
NNL 0.46 32 iP 50 03.75 0.6
AUE 0.86 251 iP 50 06.94 -0.8
AUL 0.88 253 eP 50 07.30 -0.7
RED 0.92 328 iP 50 07.65 -0.9
Sn 50 20.81
RDT 0.98 342 iP 50 08.48 -0.8
iS 50 22.21
NKA 1.13 14 iP 50 12.60 1.4
SLKM 1.16 42 iP 50 11.18 -0.6
CDD 1.20 234 iP 50 11.05 -1.2
IS 50 27.43
SEW 1.26 68 eP 50 12.13 -0.9
MCNL 1.39 251 iP 50 13.02 -1.7
eS 50 30.03
SPU 1.54 355 iP 50 16.41 -0.5
iS 50 36.65
CRP 1.63 354 iP 50 18.10 -0.2
iS 50 39.88
CGLM 1.67 356 iP 50 18.41 -0.2

NCG 1.77 354 iP 50 40.28
SUA 1.89 15 iP 50 20.01 -0.1
PMS 1.94 34 iP 50 22.54 0.1
iS 50 46.24
MTU 2.11 79 eP 50 23.89 -0.9
PWA 2.21 24 eP 50 26.24 0.1
iS 50 53.63
SKT 2.34 3 eP 50 27.13 -0.9
PLRM 2.35 33 eP 50 27.06 -0.9
GHO 2.55 32 eP 50 30.22 -0.8
GLI 2.64 60 iP 50 29.94 -2.3
SML 2.75 37 iP 50 32.91 -0.8
CUT 2.86 14 iP 50 34.92 -0.3
VZW 2.96 59 iP 50 34.65 -2.1
VLZ 3.09 59 iP 50 36.69 -1.7
NCA 3.38 44 iP 50 41.66 -1.0
KLU 3.43 55 iP 50 41.85 -1.6
TOA 3.69 46 eP 50 45.03 -1.9
KTH 3.94 6 eP 50 49.42 -1.1
RND 4.02 19 iP 50 50.87 -0.8
BALM 4.89 69 eP 51 01.91 -2.1
WRH 5.14 18 eP 51 05.65 -1.7
HDA 5.28 23 eP 51 08.33 -1.0

36 obs. associated

* JUN 05, 1990 21h 50m 48.49 ± 2.16s
31.215 N ± 11.9km 139.798 E ± 15.7km
DEPTH = 145.8 ± 19.7 km
4.0mb (7 obs.)

SOUTH OF HONSHU, JAPAN (211)

MAT 5.47 346 (P) 52 09.00 -0.1
0.5s 6.34nm 4.1mb
(S) 53 17.00
CHTO 38.82 261 eP 58 02.30 1.5
0.7s 0.48nm 3.3mb
WB5 51.07 187 eP 59 37.10 -0.8
WRA 51.13 187 Pd 59 38.00 -0.4
0.4s 2.10nm 4.2mb
YKA 69.53 29 eP 01 41.20 -1.5
0.7s 2.00nm 4.1mb
WDC 75.69 51 eP 02 23.00 3.7X
ORV 76.89 52 eP 02 26.10 0.1
BKS 77.21 53 ePc 02 28.20 0.4
SES 77.51 38 eP 02 29.00 -0.3
CMB 78.40 53 eP 02 35.20 0.8
APO 78.46 336 eP 02 33.20 -1.0
0.4s 0.80nm 3.0mb
NB2 79.02 337 P 02 36.80 -0.5
0.6s 0.60nm 3.5mb
LRM 79.28 43 eP 02 40.20 0.9
FFC 79.34 31 eP 02 39.00 -0.1
0.8s 9.00nm 4.6mb
FRI 79.40 53 ePc 02 40.40 0.7
KVN 79.41 51 eP 02 40.60 0.5
S.D. = 0.9 on 15 of 16 obs.

? JUN 05, 1990 22h 01m 36.41 ± 1.73s
11.978 S ± 18.0km 116.866 E ± 30.4km
DEPTH = 33.0km (normal)

SOUTH OF SUMBAWA ISLAND (291)

TRT 5.95 315 ePd 03 04.60 0.0
eS 04 05.10
NANU 10.60 187 eP 04 10.50 1.3
eS 05 58.50
MEKA 14.64 174 eP 05 03.00 -0.1
0.3s 6.00nm 4.5mb X
eS 07 36.00
WARB 16.87 148 eP 05 32.00 0.3
MRWA 17.17 183 eP 05 34.00 -1.5
eS 08 33.00
COOL 19.23 169 eP 06 03.00 2.3X
KLB 19.54 178 eP 06 07.10 2.8X
S.D. = 1.4 on 5 of 7 obs.

* JUN 05, 1990 23h 25m 57.90 ± 1.78s
4.651 S ± 12.9km 103.222 E ± 13.0km
DEPTH = 68.8 ± 15.0 km
4.6mb (7 obs.)

SOUTHERN SUMATERA (274)

PPI 5.03 326 eP 27 13.00 0.4
eS 28 14.50
IPM 9.43 347 ePd 28 19.00 5.6X
CHTO 23.69 350 eP 31 05.30 0.9

05d 23h

Table with columns for station name, time, magnitude, depth, and other parameters. Includes stations like GBA, WB5, WRA, CD2, PK1, GUN, GKN, XAN, NDI, STK, QUE, CN2, MLR, SUF, NUR, SOD, KEV, HFS, NB2, OLY.

& JUN 06, 1990 01h 11m 59.81s
59.136 N 152.613 W
DEPTH = 75.2km
SOUTHERN ALASKA (2)
<AGS-P>.

Table with columns for station name, time, magnitude, depth, and other parameters. Includes stations like AUE, AUL, CDD, CNPM, MCNL,>NNL, RED, RDT, SLKM, SEW, SPU, CRP, CGLM, NCG, SUA, PMS, SKT.

JUN 06, 1990 01h 14m 52.62± 0.28s
44.508 N ± 2.0km 7.284 E ± 2.6km
DEPTH = 11.8 ± 2.9 km
NORTHERN ITALY (545)
ML 2.6 (GEN), 2.5 (LDG).

Table with columns for station name, time, magnitude, depth, and other parameters. Includes stations like DOI, PZZ, STV, ENR, ROB, TOUF, AUTN, RRL, MWIF, AURF, RSP, SBF.

Table with columns for station name, time, magnitude, depth, and other parameters. Includes stations like BNI, CKI, FIN, IMI, CALN, PCP, FRF, LPG, LPL, LRG, LMR.

S.D. = 0.4 on 23 of 23 obs.
? JUN 06, 1990 01h 28m 50.27± 0.80s
6.182 N ± 10.2km 33.481 E ± 20.9km
DEPTH = 10.0km (geophysicist)
4.1mb (4 obs.)

Table with columns for station name, time, magnitude, depth, and other parameters. Includes stations like NAI, NPA, KRI, BUL, GBA, APO, SUF, NB2, MBC.

S.D. = 1.0 on 6 of 9 obs.
JUN 06, 1990 02h 01m 08.24± 0.15s
6.131 S ± 2.7km 77.213 W ± 3.9km
DEPTH = 25.3km (11 depth phases)
5.1mb (41 obs.) 5.0msz (1 obs.)

NORTHERN PERU (111)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 18C
Centroid Location:
Origin Time 02:01:11.0 1.1
Lat 6.29S 0.13 Lon 77.46W 0.25
Dep 26.5 7.2 Half-duration 1.7
Moment Tensor: Scale 10**16 Nm
Mrr= 3.03 0.88 Mtt= 0.82 0.83
Mff=-3.86 1.49 Mrt=-8.18 1.95
Mrf= 6.37 2.20 Mtf= 1.59 0.79
Principal Axes:
T Val= 11.23 P1g=51 Azm=206
N -0.33 13 313
P -10.89 36 52
Best Double Couple: Mo=1.1*10**17
NP1: Strike=191 Dip=15 Slip= 149
NP2: 311 82 77

Table with columns for station name, time, magnitude, depth, and other parameters. Includes stations like TUNG, VC1, PT08, NNA, PT10, QTO, OUR, CAYA, COTA, PSO, PT06.

Table with columns for station name, time, magnitude, depth, and other parameters. Includes stations like BOG, ARE, FUG, ZOBO, LPB, UPA, CCH, SDV, TOV, SIV, OLLA, CAR, LLAV, TPP, TRN, TBH, SLB, BBL, PAG, MGH, ROCH, PEL, BPA, SAN, TACH, LNV, CHCH, BAO, ITR, CAI, JSC, RSCP, BLA, UYO, OLY, NA2, CBN, LNO, TUL, FVM, ALO, ANMO, WNY, HBVT, RSNY, BNH, GLD, GOL, GLA, PV09, CBM, PLM, MSU, RVR, GSC, RSSD, SBB.

LKO 68.76 72 Pc 08 09.80 -0.1
0.5s 40.50nm 5.5mb X
MSU 68.93 325 P 08 11.40 0.7
RSSD 69.36 334 P 08 12.00 -1.2
TNP 71.48 322 P 08 27.00 0.8
0.6s 2.22nm 4.1mb
pP 09 00.00 133km
SPA 72.17 180 iPd 08 31.90 2.1
0.7s 8.59nm 4.6mb
PRI 72.32 319 eP 08 32.30 1.3
KVN 72.64 322 P 08 33.80 0.8
pP 09 06.00 129km
LLA 72.79 319 eP 08 34.70 1.0
ORV 74.98 321 ePd 08 47.50 1.3
WDC 76.24 321 ePd 08 52.80 -0.5
SES 77.23 334 ePd 08 59.00 0.4
pP 09 33.00 136km
PNT 80.32 329 eP 09 16.00 0.7
0.7s 8.00nm 4.6mb
MTN 143.24 215 iPKPd 16 36.10 -2.6X
GBA 147.93 93 PKPd 16 51.10 4.6X
0.5s 1.60nm
MAT 149.33 313 ePKP 16 54.00 5.8X
1.1s 24.05nm
GKN 154.23 62 PKP 17 00.00 4.3X
S.D. = 1.3 on 32 of 40 obs.

% JUN 06, 1990 14h 01m 32.19± 1.76s
40.301 N ± 18.6km 27.852 E ± 7.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

EDC 0.05 11 iPg 01 33.30 -1.0
eSg 01 35.30
KGT 0.45 290 iPg 01 41.30 0.0
CTT 0.95 27 ePn 01 51.00 0.7
YLV 1.19 77 iPn 01 54.80 0.3
IZI 1.24 88 ePn 01 49.20 -6.1X
HRT 1.48 69 ePn 01 58.80 -0.1
S.D. = 0.9 on 5 of 6 obs.

% JUN 06, 1990 14h 41m 26.61± 0.98s
60.563 N ± 5.5km 5.004 E ± 11.8km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 1.4 (BER).

ASK 0.12 130 iPc 41 29.28 -0.4
iS 41 31.45
BER 0.24 138 iPc 41 31.25 -0.5
iS 41 35.25
SUE 0.51 347 iP 41 36.91 0.0
eS 41 44.19
HYA 0.84 43 iP 41 42.42 -0.3
eS 41 55.46
ODD1 1.04 128 iP 41 47.15 0.9
eS 42 01.31
KMY 1.36 175 iP 41 51.61 0.1
iS 42 09.55
MOL 2.35 30 iPc 42 06.17 0.3
iS 42 35.78
S.D. = 0.6 on 7 of 7 obs.

* JUN 06, 1990 14h 43m 50.26± 1.35s
33.980 S ± 12.6km 71.270 W ± 7.4km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)

LNV 0.12 282 iPc 43 56.50 0.4
TACH 0.43 40 iP 44 00.00 0.2
CHCH 0.52 85 iPc 44 00.70 -0.5
iS 44 10.50
LCCH 0.56 334 iPd 44 01.20 -0.6
iS 44 12.20
PCH 0.72 61 iPd 44 03.80 -0.3
iS 44 16.00
SAN 0.73 44 iPd 44 04.00 -0.1
iS 44 16.50
IHA 1.00 342 eP 44 08.00 0.0
iS 44 22.90
ROCH 1.03 12 iPd 44 08.50 -0.1
iS 44 21.00
iS 44 24.50
FCH 1.04 52 iPd 44 08.60 -0.3
iS 44 25.00
JACH 1.41 24 iPd 44 13.50 -0.5
iS 44 34.10

MDZ 2.30 62 eP 44 27.50 0.8
iS 44 45.40
RTBS 2.77 34 e(P) 44 36.20 2.9
RTCV 3.12 48 ePd 44 38.00 -0.4
RTCB 3.24 41 iPc 44 40.00 -0.1
RTLL 3.54 43 ePc 44 43.20 -1.2
RTRS 4.10 23 ePd 44 51.80 -0.3
S.D. = 1.0 on 16 of 16 obs.

JUN 06, 1990 16h 08m 36.05± 0.55s
42.887 N ± 6.6km 20.773 E ± 4.5km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.6 (TTG).

IVA 0.64 269 ePg 08 47.30 -1.7
eSg 08 55.70
PVY 0.66 244 iPg 08 47.70 -1.5
iSg 08 57.40
SKO 1.04 151 iPg 08 55.00 -0.7
iS 08 56.80
iSg 09 11.80
PLE 1.10 294 ePg 08 55.70 -1.1
eSg 09 09.40
TTG 1.21 248 ePg 08 57.80 -0.7
eSg 09 13.50
NKY 1.31 267 ePg 09 00.50 0.2
eSg 09 19.00
ULC 1.46 231 ePg 09 03.60 1.2
eSg 09 22.00
BDV 1.56 248 ePg 09 05.00 1.2
eSg 09 28.00
BRY 1.64 271 ePg 09 06.00 0.9
eSg 09 28.00
HCY 1.73 256 ePn 09 08.00 1.6
eSn 09 32.00
OHR 1.77 179 iPn 09 07.50 0.5
VTS 1.82 99 iP 09 08.00 0.2
iSg 09 35.00
BEO 1.95 353 ePn 09 11.50 2.0
iSg 09 37.50
VAY 2.06 139 ePn 09 10.70 -0.4
MMB 2.55 120 eP 09 18.00 -0.1
eSg 10 01.00
BZS 2.80 12 ePc 09 20.00 -1.6
PLD 3.01 104 eP 09 36.00 11.4X
RZN 3.16 111 eP 09 27.00 0.0
KDZ 3.66 108 eP 09 37.00 3.1X
iS 10 32.00
S.D. = 1.2 on 17 of 19 obs.

? JUN 06, 1990 17h 03m 55.16± 7.34s
32.319 S ± 46.6km 71.804 W ± 33.6km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)

ROCH 0.93 134 eP 04 13.30 0.2
iS 04 27.50
iS 04 28.50
JACH 1.09 110 iPd 04 15.20 -0.4
iS 04 30.40
LCCH 1.17 170 iPd 04 16.60 -0.4
iS 04 32.50
TACH 1.52 152 iPc 04 22.50 0.1
iS 04 45.00
iS 04 48.00
FCH 1.62 129 ePc 04 24.30 0.1
iS 04 46.90
iS 04 48.50
LNV 1.67 189 iPc 04 24.50 0.0
iS 04 48.20
PCH 1.69 140 eP 04 25.70 0.7
iS 04 50.50
S.D. = 0.5 on 7 of 7 obs.

? JUN 06, 1990 18h 19m 41.48± 0.95s
31.484 S ± 16.1km 68.586 W ± 22.1km
DEPTH = 110.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.18 269 eP 19 57.30 -0.1
RTLL 0.18 33 iPc 19 57.00 -0.4
RTCV 0.38 174 e(P) 19 58.30 0.4
RTBS 0.76 256 ePd 20 00.40 -0.2
MDZ 1.41 189 eP 20 26.90 19.2X
RTRS 1.51 330 iPc 20 09.00 0.3
eS 20 28.80

S.D. = 0.5 on 5 of 6 obs.
? JUN 06, 1990 18h 34m 29.48± 2.67s
53.672 N ± 44.0km 163.846 W ± 29.9km
DEPTH = 33.0km (normal)
4.5mb (2 obs.)
UNIMAK ISLAND REGION (10)

ADK 7.99 262 e(P) 36 26.50 0.4
TTA 10.15 21 eP 36 56.50 0.5
IMA 13.41 18 eP 37 44.00 4.1X
FRB 45.94 38 eP 42 51.00 0.7
NB2 65.57 3 P 45 10.50 -1.0
0.7s 1.70nm 4.3mb
HFS 66.53 1 eP 45 16.90 -0.7
0.8s 5.60nm 4.7mb
S.D. = 1.1 on 5 of 6 obs.

? JUN 06, 1990 19h 01m 10.04± 1.02s
39.638 N ± 9.3km 26.715 E ± 8.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

EZN 0.35 302 iPg 01 17.40 0.1
KGT 0.93 29 iPg 01 21.00 -6.8X
EDC 1.13 51 iPg 01 30.00 -1.2
eSg 01 43.00
IZM 1.31 161 ePn 01 34.00 -0.3
CTT 2.00 40 iPn 01 44.30 0.1
IZI 2.23 71 ePn 01 49.00 1.3
YLV 2.24 65 iPn 01 50.50 2.7X
S.D. = 1.3 on 5 of 7 obs.

% JUN 06, 1990 19h 02m 32.98± 0.96s
45.319 N ± 7.8km 26.667 E ± 6.4km
DEPTH = 10.0km (geophysicist)
ROMANIA (358)

BRD 0.33 54 iPc 02 40.00 0.1
MLR 0.54 289 eP 02 44.00 0.1
VR1 0.55 4 iPd 02 43.50 -0.7
CFR 1.06 97 iPc 02 52.00 -0.9
PPE 1.12 36 eP 02 55.00 1.1
CMP 1.15 268 ePd 03 04.00 9.5X
TLB 1.21 126 iPd 02 56.00 0.4
CLI 1.30 19 ePc 02 57.00 -0.1
S.D. = 0.8 on 7 of 8 obs.

% JUN 06, 1990 22h 49m 05.44± 1.14s
42.240 N ± 6.7km 13.616 E ± 12.4km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

AQU 0.19 306 P 49 09.70 -0.1
eSg 49 13.40
AZI 0.29 208 P 49 12.00 0.6
eSg 49 15.60
SDI 0.55 164 P 49 16.30 -0.4
eSg 49 25.60
MNS 0.71 282 P 49 19.00 -0.5
ASS 1.09 320 P 49 25.80 -0.1
eSn 49 41.50
ARV 1.35 339 P 49 30.80 0.5
S.D. = 0.6 on 6 of 6 obs.

JUN 06, 1990 23h 30m 17.57± 0.58s
37.703 N ± 6.1km 20.785 E ± 4.4km
DEPTH = 10.0km (geophysicist)
4.1mb (3 obs.)
IONIAN SEA (399)
ML 3.8 (ATH).

VLS 0.50 342 ePg 30 28.00 0.3
ITM 1.05 120 ePg 30 35.90 -1.5
AGG 1.79 42 eP 30 51.60 2.8X
eS 31 14.30
IGT 1.86 349 eP 30 53.40 3.7X
eS 31 20.90
VLI 1.98 119 ePg 30 53.70 2.2
KEK 2.15 339 ePb 30 57.50 3.6X
ATH 2.34 83 ePb 30 58.50 1.9
NEO 2.49 49 ePn 30 59.40 0.5
LIT 2.74 29 eP 31 02.50 0.1
eS 31 37.20
FNA 3.11 8 eP 31 08.10 0.5
THE 3.38 29 eP 31 11.30 -0.1
OHR 3.40 0 iPn 31 13.80 2.0

LC1	3.43 321 P	31 12.40 0.3		i	52 51.80 36km		eS	48 47.30
	eSn	31 50.20		eS	56 40.00		TCW	10.99 202 eP 46 44.50 0.6
GRG	3.48 21 eP	31 13.30 0.4	IPM	23.32 306 ePc	52 50.30 1.6		THZ	11.96 206 eP 46 56.70 1.1
VAM	3.58 129 ePn	31 14.00 -0.3	PSI	24.03 299 ePd	52 56.00 0.5			eS 49 12.10
SOH	3.70 32 eP	31 16.20 0.2	BDT	33.57 322 eP	54 22.30 0.6		KHZ	12.31 202 eP 46 59.60 0.2
SOI	3.76 277 P	31 17.00 0.2		0.8s 47.20nm	5.5mb x		DZM	14.99 304 iPc 47 28.10 0.0
KNT	3.82 25 eP	31 17.70 0.0	QZH	34.25 358 Pc	54 28.00 0.4		WB5	42.27 274 eP 51 31.60 0.2
	eS	32 02.60	CHG	34.82 324 iPc	54 33.00 0.4			eS 57 27.10
VAY	3.87 20 iPn	31 17.80 -0.5		1.0s 28.75nm	5.2mb		SUF	144.19 340 ePKP 02 58.20 -4.9X
TDS	3.99 301 P	31 22.30 2.2	CHTO	34.82 324 iPc	54 33.00 0.4			0.5s 29.70nm
SRS	4.04 32 eP	31 20.50 -0.3		0.9s 10.02nm	4.7mb		NUR	146.34 338 IPKP 03 05.00 -1.7
	eS	32 07.60	GYA	37.94 341 P	55 00.40 1.5			0.6s 36.50nm
ORI	4.12 306 P	31 25.70 3.7X	WHN	40.15 353 ePc	55 18.50 1.4		BCAO	148.12 217 IPKPd 03 12.50 1.4
	eSn	32 07.90	NJ2	41.33 359 iPd	55 27.90 1.2		UPP	148.91 343 IPKP 03 10.10 -0.7
ATN	4.23 278 P	31 24.00 0.4	CD2	43.01 340 P	55 40.70 0.0			i 03 15.80
	eSg	32 11.00	TIY	47.46 352 eP	56 15.40 -0.8		NAO	149.44 349 PKP 03 12.60 0.9
SKO	4.29 7 iPn	31 24.00 -0.4		sS 03 25.00				0.6s 8.20nm
	iPg	31 40.80	LZH	47.76 343 eP	56 19.00 0.4		HFS	149.57 346 ePKP 03 12.10 0.3
	iSn	32 14.50		1.6s 51.00nm	5.3mb			0.8s 15.20nm
	i	32 25.00	GBA	47.86 298 Pc	56 17.00 -2.5		MBH	149.82 277 ePKPd 03 18.00 4.8X
	iSg	32 36.00		0.7s 11.70nm	5.0mb		PRNI	149.83 278 ePKP 03 18.00 4.8X
	e	33 10.00	BJI	49.40 356 eP	56 30.00 -1.0			S.D. = 1.0 on 19 of 23 obs.
MMB	4.50 29 ePd	31 27.00 -0.3		1.0s 18.00nm	5.1mb		? JUN 07, 1990 04h 07m 54.57 ± 1.26s	
MEU	4.70 264 Pc	31 28.70 -1.6	GUN	49.57 320 P	56 31.80 -1.2		31.314 S ± 15.4km 68.449 W ± 24.7km	
	eSn	32 22.60	PKI	49.64 319 P	56 32.00 -1.5		DEPTH = 110.0km (geophysicist)	
MGR	4.75 302 P	31 32.20 1.3		0.5s 11.00nm	5.1mb		SAN JUAN PROVINCE, ARGENTINA (137)	
	eSn	32 21.00	GKN	50.44 319 P	56 37.60 -1.8		RTLL	0.02 227 iPc 08 10.00 -0.2
SMG	4.80 88 ePn	31 31.30 -0.3	BTO	50.65 350 eP	56 41.00 0.3		RTCB	0.35 240 iPd 08 11.00 0.1
MNO	4.83 275 P	31 31.00 -1.2	SNY	51.20 4 eP	56 41.60 -3.1X		RTCV	0.55 188 ePc 08 12.20 0.1
RZN	5.00 36 iPc	31 34.00 -0.6	GTA	52.07 340 eP	56 51.20 -0.3			S 08 25.00
RDO	5.04 45 ePn	31 33.30 -1.6		1.0s 15.00nm	4.9mb		RTBS	0.92 248 ePd 08 15.10 -0.1
SGO	5.12 305 P	31 38.00 1.9	MDJ	54.60 9 Pc	57 08.50 -1.4			S 08 29.70
VTS	5.22 20 eP	31 37.00 -0.7	WMQ	60.53 334 P	57 50.80 -1.1		RTRS	1.43 322 iPc 08 21.00 0.1
MLR	8.69 25 eP	32 28.00 1.7	QUE	64.25 310 eP	58 15.51 -1.6			eS 08 40.50
YBY	8.82 334 e(P)	32 37.00 9.0X	SLR	87.24 245 iPc	00 28.50 0.9			S.D. = 0.2 on 5 of 5 obs.
VOY	9.78 331 e(P)	32 38.40 -2.9	ITR	151.68 231 ePKP	07 36.60 7.0X		& JUN 07, 1990 05h 06m 16.42s	
	eS	34 24.50		e	07 55.20		62.884 N 150.615 W	
AFC	19.31 276 iP	34 39.30 -6.4X	ZOBO	153.24 163 PKP	07 43.00 10.6X		DEPTH = 88.6km	
	eS	34 44.00		S.D. = 1.3 on 36 of 40 obs.			CENTRAL ALASKA (1)	
EBAN	19.38 279 eP	34 49.00 2.6X					<AGS-P>.	
	eS	35 00.00	? JUN 07, 1990 01h 30m 02.64 ± 0.89s				HUR	0.46 78 iP 06 30.49 -0.4
HFS	22.90 351 eP	35 20.00 -2.3	37.420 N ± 6.9km 3.690 W ± 11.4km				CUT	0.51 161 iP 06 41.15 -0.1
	0.7s 5.50nm	4.2mb	DEPTH = 10.0km (geophysicist)					Sn 06 43.00
EKA	23.94 325 P	35 33.00 0.7	SPAIN				KTH	0.69 348 eP 06 33.10 0.1
	0.9s 10.30nm	4.4mb	mblg 2.7 (MDD)					Sn 06 45.74
NB2	24.12 349 P	35 31.80 -2.4					SKT	1.00 206 iP 06 35.98 -0.4
	0.7s 1.60nm	3.7mb	AFC	0.20 145 iPgc	38 07.00 -0.2		PWA	1.28 164 iP 06 39.71 0.0
	S.D. = 1.4 on 34 of 41 obs.			eSg	38 11.00		GHO	1.37 144 iP 06 40.74 -0.1
JUN 06, 1990 23h 47m 42.54 ± 0.35s			EBAN	0.75 354 ePg	38 17.00 -0.3			IS 07 00.59
9.503 S ± 5.5km 119.746 E ± 8.0km				eSg	38 28.00		SUA	1.43 182 iP 06 41.91 0.2
DEPTH = 33.8km (3 depth phases)			MAL	0.90 220 ePn	38 20.00 0.1		PLRM	1.47 151 iP 06 41.96 -0.1
5.0mb (12 obs.)			EVIA	1.53 37 ePn	38 30.50 0.3			IS 07 02.56
SUMBA ISLAND REGION (287)				eSn	38 52.00		SML	1.52 134 iP 06 42.12 -0.6
TRT	7.26 284 ePd	49 31.70 2.7		S.D. = 0.5 on 4 of 4 obs.		NCG	1.65 207 iP 06 44.07 -0.5	
	eS	50 54.90	? JUN 07, 1990 02h 19m 56.73 ± 1.53s			CGLM	1.71 203 iP 06 45.04 -0.3	
KNA	10.77 126 eP	50 17.50 -0.1	31.371 S ± 16.0km 68.333 W ± 27.1km				IS 07 07.08	
	0.3s 16.00nm	5.0mb x	DEPTH = 110.0km (geophysicist)			PMS	1.72 163 iP 06 46.09 0.7	
MBL	11.59 180 iPd	50 26.00 -2.7	SAN JUAN PROVINCE, ARGENTINA (137)				IS 07 09.10	
	eS	52 21.00	RTLL	0.12 289 iPc	20 12.20 -0.3		CRP	1.78 205 iP 06 46.09 -0.2
MTN	11.65 108 eP	50 30.00 0.4	RTCB	0.42 254 iPd	20 13.50 0.1			IS 07 10.20
	eS	52 31.00	RTCV	0.52 200 e(P)	20 14.20 0.2		SPU	1.84 202 iP 06 47.30 0.3
KKM	15.84 347 ePc	51 29.50 4.6X		S	20 26.20			IS 07 10.95
MEKA	17.06 184 eP	51 40.10 -0.1	RTBS	1.00 253 ePd	20 18.00 -0.2		NCA	1.98 115 eP 06 48.17 -0.7
	0.3s 42.00nm	5.0mb		S	20 32.60		CC8	2.17 34 eP 06 50.16 -1.2
WB5	17.49 128 eP	54 19.00 0.6	RTRS	1.54 321 iPc	20 24.50 0.1		TOA	2.21 109 iP 06 51.69 -0.3
	eS	54 45.20		eS	20 44.80			IS 07 20.69
WARB	17.83 159 eP	51 50.00 0.1		S.D. = 0.3 on 5 of 5 obs.		SLKM	2.39 175 eP 06 54.91 0.5	
	0.4s 20.00nm	4.6mb	? JUN 07, 1990 02h 44m 13.53 ± 2.04s					IS 07 22.29
MRWA	19.93 190 iPd	52 15.10 0.6	31.154 S ± 16.9km 179.822 E ± 22.8km			RDT	2.47 201 iP 06 56.02 0.5	
BAL	21.19 187 eP	52 29.00 1.5	DEPTH = 399.0 ± 18.9 km			KLU	2.61 120 eP 06 55.66 -1.8	
	eS	56 08.00	KERMADEC ISLANDS REGION (177)			GLI	2.61 139 iP 06 55.80 -1.6	
COOL	21.31 177 eP	52 28.00 -0.8	HBZ	6.55 191 P	45 53.40 0.6			21 obs. associated
	0.4s 12.00nm	4.7mb	PUZ	7.02 190 eP	45 57.90 -0.2		? JUN 07, 1990 05h 08m 29.28 ± 1.89s	
	e	52 37.00 33km		eS	47 25.40		27.825 N ± 15.8km 18.041 W ± 17.7km	
KLB	22.06 185 eP	52 36.00 -0.2	WLZ	7.53 206 eP	46 07.70 3.9X		DEPTH = 33.0km (normal)	
	0.3s 13.00nm	4.8mb	NOZ	7.59 191 eP	46 05.00 0.5		CANARY ISLANDS REGION (394)	
	e	52 45.00 32km	PGZ	9.87 196 eP	46 31.60 0.7		mblg 3.1 (MDD)	
	eS	56 28.00	MNG	10.08 199 eP	46 31.00 -2.4		CHIE	0.12 144 iP 08 35.30 0.1
OIS	22.08 122 eP	52 38.00 1.5		eS	48 30.30			IS 08 39.20
	eS	56 35.00	MTW	10.58 198 eP	46 39.30 0.1		TBT	0.86 7 iP 08 44.80 -0.2
MUN	22.60 188 eP	52 42.00 0.4	CAW	10.65 200 eP	46 39.70 -0.3			
	0.5s 29.00nm	5.0mb	WDW	10.82 200 eP	46 41.00 -0.9			
			MRW	10.87 201 eP	46 42.00 -0.5			

CTFE 1.70 67 iP 08 56.20 0.9
 GGC 2.15 82 iP 08 58.00 0.5
 CFTV 3.54 80 iP 09 04.00 0.5
 09 26.80
 10 00.20
 S.D. = 1.2 on 5 of 5 obs.

? JUN 07, 1990 06h 01m 10.06 ± 1.28s
 8.255 N ± 23.0km 103.003 W ± 31.5km
 DEPTH = 43.0km (3 depth phases)
 4.3mb (9 obs.) 5.0Msz (1 obs.)
 OFF COAST OF MEXICO (63)

ALQ 26.75 354 eP 06 48.00 0.1
 1.0s 3.00nm 3.9mb
 ANMO 26.75 354 P 06 49.00 1.1
 1.3s 8.41nm 4.2mb
 UYO 26.96 16 e(P) 06 50.20 0.6
 GLA 27.00 338 P 06 49.60 -0.4
 MSU 31.24 346 P 07 30.00 1.8
 GOL 31.38 356 eP 07 30.00 0.6
 1.0s 3.75nm 4.1mb
 pP 07 41.30 42km
 TNP 32.35 339 eP 07 38.50 0.6
 1.4s 1.56nm 3.7mb
 pP 07 50.90 48km
 DAU 32.86 348 P 07 41.30 -1.1
 KVN 33.53 338 eP 07 48.20 0.1
 pP 07 54.60 22kmX
 BW06 34.87 352 eP 07 57.30 -2.3
 1.1s 5.95nm 4.4mb
 pP 08 08.20 39km
 ORV 35.30 335 eP 08 04.70 1.7
 MIN 36.01 335 ePc 08 10.70 1.5
 WDC 36.59 335 eP 08 12.40 -1.5
 LRM 38.31 349 eP 08 27.80 -0.8
 NEW 41.62 346 P 08 53.20 -2.5
 1.0s 9.38nm 4.5mb
 ZOBO 42.25 125 P 09 05.50 3.6X
 1.2s 11.82nm 4.5mb
 S 15 34.00
 LR 22 56.00
 LPB 42.42 126 P 09 03.00 0.0
 Z 21s 2.15um 5.0Msz
 LR 22 50.00
 SES 42.54 352 eP 09 05.00 1.8
 CCH 44.45 125 eP 09 20.00 0.6
 EDM 45.62 351 eP 09 26.50 -1.4
 FFC 46.35 1 eP 09 33.00 -0.6
 1.2s 18.00nm 4.9mb
 SIV 48.00 120 P 09 46.60 -0.6
 INK 63.29 348 eP 11 36.00 -0.4
 MBC 68.54 356 eP 12 11.00 1.1
 1.5s 16.00nm 4.8mb
 CHG 145.48 321 ePKP 20 48.50 2.4X
 S.D. = 1.3 on 23 of 25 obs.

? JUN 07, 1990 06h 47m 12.68 ± 1.29s
 42.776 N ± 6.3km 12.796 E ± 21.6km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)

ASS 0.31 342 P 47 19.30 0.1
 eSg 47 24.50
 MNS 0.40 192 P 47 20.90 0.0
 eSg 47 27.00
 ARV 0.73 8 P 47 27.00 0.0
 eSg 47 39.60
 PGD 1.35 325 P 47 37.50 -0.1
 S.D. = 0.2 on 4 of 4 obs.

? JUN 07, 1990 06h 57m 59.00 ± 8.37s
 30.959 S ± 20.0km 67.795 W ± 74.6km
 DEPTH = 33.0km (normal)
 SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.69 237 iPc 58 14.00 1.7
 RTCB 1.01 238 eP 58 17.00 0.0
 RTCV 1.10 215 iPd 58 17.90 -0.3
 S 58 30.00
 RTBS 1.58 243 e(P) 58 23.50 -1.5
 (S) 58 40.30
 RTRS 1.64 298 iPc 58 25.90 0.1
 eS 58 46.00
 S.D. = 1.6 on 5 of 5 obs.

* JUN 07, 1990 07h 14m 42.40 ± 0.57s
 20.117 S ± 13.0km 66.555 E ± 8.8km
 DEPTH = 10.0km (geophysicist)
 5.0mb (14 obs.) 4.8Msz (3 obs.)

MASCARENE ISLANDS REGION (427)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 16S, 29C
 Centroid Location:
 Origin Time 07:14:51.1 0.8
 Lat 19.84S 0.09 Lon 66.27E 0.09
 Dep 15.0 FIX Half-duration 1.7
 Moment Tensor: Scale 10¹⁶ Nm
 Mrr=-0.34 0.42 Mtt= 8.58 0.51
 Mff=-8.24 0.60 Mrt= 7.02 1.80
 Mrf= 1.10 1.53 Mtf=-4.68 0.47
 Principal Axes:
 T Val= 13.06 Plg=27 Azm= 11
 N -2.60 56 233
 P -10.46 19 111
 Best Double Couple: Mo=1.2*10¹⁷
 NP1: Strike=153 Dip=57 Slip= 6
 NP2: 60 85 147

CLK 30.34 273 iPd 20 56.10 -0.7
 NAI 34.59 299 iPd 21 34.00 -0.1
 1.0s 10.00nm 4.7mb
 KRI 35.14 269 iPd 21 41.20 2.5
 GBA 35.18 19 Pc 21 38.80 0.1
 1.1s 13.90nm 4.7mb
 BUL 35.57 263 iPd 21 40.10 -2.2
 SEK 36.31 249 eP 21 49.00 0.5
 1.0s 15.00nm 4.8mb
 LSZ 36.81 271 iPd 21 53.10 0.3
 i 23 19.90
 KSR 36.85 253 eP 21 53.00 -0.1
 SWZ 38.29 251 iPc 21 52.00 -13.1X
 1.0s 22.00nm
 POO 39.07 11 iPc 22 09.80 -1.7
 HYB 39.12 18 eP 22 12.00 0.1
 CER 43.87 242 eP 22 48.00 -2.8
 QUE 50.01 0 eP 23 39.80 0.5
 e 24 13.60
 CHG 50.05 41 eP 23 40.00 0.4
 CHTO 50.05 41 eP 23 39.90 0.4
 1.0s 8.00nm 4.6mb
 DMN 50.73 21 P 23 44.80 -0.1
 PKI 50.80 22 P 23 44.80 -0.7
 GKN 50.93 21 P 23 46.00 -0.3
 0.9s 48.00nm 5.4mb
 GUN 51.27 22 P 23 48.80 -0.3
 0.8s 19.00nm 5.1mb
 BCAO 53.10 292 iPd 24 00.00 -2.7
 0.8s 42.00nm 5.4mb
 i 24 02.00
 i 24 08.00
 MAIO 56.50 353 eP 24 26.00 -1.2
 KMI 57.10 40 Pd 24 32.00 0.2
 QIZ 57.57 50 eP 24 38.50 3.6X
 N 13s 0.80um
 eS 32 34.00
 MBH 58.23 328 eP 24 44.00 4.7X
 PRNI 58.64 328 eP 24 47.00 4.7X
 KSH 59.91 8 eP 24 49.00 -2.0
 E 12s 1.30um
 GYA 60.48 42 P 24 54.80 -0.3
 CD2 62.06 36 eP 25 04.40 -1.3
 Z 22s 0.60um 4.7Msz
 eS 33 31.80
 WB5 63.28 103 eP 25 12.20 -1.8
 LFK 63.38 330 eP 25 17.00 2.7
 ADE 64.43 120 eP 25 24.00 2.5
 LZH 66.10 32 Pc 25 31.00 -1.1
 2.0s 34.00nm 5.2mb
 Z 25s 0.60um 4.7MszX
 pP 25 38.50 24kmX
 S 34 20.00
 WMQ 66.51 17 P 25 34.00 -0.5
 GTA 66.88 28 P 25 36.30 -0.7
 1.0s 20.00nm 5.3mb
 XAN 67.29 37 P 25 38.60 -1.0
 ALT 68.03 330 eP 25 47.00 2.8
 IZM 68.90 328 eP 25 52.00 2.4
 YLV 69.58 331 eP 25 56.80 3.1X
 TIY 71.91 37 Pd 26 07.70 -0.2
 Z 20s 0.80um 5.0Msz
 E 12s 0.30um

S 35 20.00
 BTO 72.68 33 P 26 12.50 0.1
 eS 35 36.00
 MHC 73.67 34 P 26 18.70 0.5
 OHR 74.25 326 eP 26 22.00 0.5
 SKO 74.53 327 eP 26 30.60 7.5X
 KIC 74.82 283 P 26 25.16 -0.1
 1.1s 25.50nm 5.2mb
 VRI 74.95 332 ePd 26 26.00 0.6
 MLR 75.00 332 eP 26 28.00 2.1
 LIC 75.03 282 P 26 26.48 0.0
 0.9s 19.00nm 5.1mb
 TIC 75.18 283 P 26 27.34 -0.1
 BJI 75.62 37 eP 26 30.00 0.7
 Z 18s 0.41um 4.8Msz
 LKO 76.83 285 P 26 36.36 -0.3
 0.9s 9.50nm 4.9mb
 LAT 78.80 93 eP 26 33.00 -14.6X
 SRO 80.25 329 eP 27 13.00 18.3X
 SPC 80.34 331 eP 26 53.00 -2.4
 SOP 81.02 328 eP 26 59.20 0.5
 ZST 81.10 329 e(P) 27 02.80 3.6X
 KHC 83.46 328 eP 27 15.00 3.6X
 PRU 83.56 329 eP 27 11.50 -0.3
 e 27 49.50
 VAI 83.95 324 P 27 22.00 8.1X
 BRG 84.43 330 eP 27 20.40 4.2X
 BNI 84.66 322 P 27 25.00 7.3X
 CLL 85.17 330 iPd 27 29.90 10.0X
 1.7s 26.00nm
 MOX 85.41 328 e(P) 27 31.00 9.9X
 MDJ 86.27 40 eP 27 27.00 1.5
 eS 38 00.00
 MAT 87.96 50 eP 27 34.00 0.0
 1.2s 18.75nm 5.3mb
 eS 38 24.00
 SUF 88.49 343 eP 27 42.00 6.1X
 NAO 92.22 336 P 27 57.60 4.4X
 0.9s 1.70nm 4.4mb
 ZOBO 122.65 234 ePKP 33 28.00 -13.4X
 e 33 45.00
 IMA 127.22 19 e(PKP) 33 51.30 3.0X
 0.9s 4.17nm
 FFC 144.37 349 ePKP 34 18.00 -2.2X
 0.6s 7.00nm
 FFC 144.37 349 ePKP 34 26.00 5.8X
 0.9s 20.00nm
 BLA 146.61 308 PKP 34 26.00 1.4
 NAV 146.84 308 ePKP 34 28.20 3.3X
 EDM 146.96 360 ePKP 34 26.00 1.4
 SGS 147.96 301 PKP 34 33.00 6.3X
 JSC 148.24 303 ePKP 34 33.30 6.1X
 PRM 149.17 303 PKP 34 36.00 7.3X
 TKL 149.70 307 PKP 34 40.60 11.2X
 SES 149.73 357 ePKP 34 34.00 4.9X
 GBTN 150.02 307 ePKP 34 37.50 7.6X
 PNT 150.45 8 ePKP 34 39.00 8.9X
 1.0s 17.00nm
 MCW 150.52 13 PKP 34 40.00 9.7X
 RSCP 151.06 308 PKP 34 38.50 7.0X
 GMW 151.60 13 PKP 34 38.00 6.1X
 FVM 153.25 317 ePKP 34 37.20 2.6X
 RSSD 154.81 344 PKP 34 49.00 12.2X
 RSSD 154.81 344 e(PKP) 34 45.00 8.2X
 TNP 161.80 10 ePKP 34 53.50 8.4X
 0.8s 1.96nm
 ALO 163.99 339 e(PKP) 34 50.00 2.6X
 GLA 167.06 5 ePKP 35 05.00 15.2X
 S.D. = 1.4 on 51 of 89 obs.

* JUN 07, 1990 08h 13m 11.66 ± 1.17s
 36.836 N ± 12.9km 28.561 E ± 9.7km
 DEPTH = 10.0km (geophysicist)
 DODECANESE ISLANDS (369)

YER 0.37 323 iPg 13 19.00 -0.3
 iSg 13 24.00
 CIN 0.85 334 ePg 13 25.00 -3.1X
 iSg 13 36.00
 ELL 1.08 94 ePn 13 31.00 -1.1
 KSL 1.09 131 ePb 13 33.00 0.9
 eSb 13 53.00
 SMG 1.63 303 ePn 13 40.20 -0.2
 KHL 1.67 27 ePn 13 38.00 -3.1X
 BCK 1.74 68 ePn 13 41.50 -0.6
 IZM 1.87 327 ePn 13 41.00 -3.0X
 ALT 2.53 28 ePn 13 55.00 1.5

07d 08h

S.D. = 1.3 on 6 of 9 obs.			RAB			8.0s 3400.00nm 6.1mb X		
* JUN 07, 1990 08h 29m 04.46± 0.81s			1.2s 1250.00nm 6.9mb X			Z 32s 40.90um 6.1msz X		
39.778 N ± 11.3km 114.281 E ± 7.6km			iS 28 34.00			N 14s 8.50um		
DEPTH = 13.0km (geophysicist)			MTN 16.06 234 eP 29 05.70 1.0			E 16s 19.70um		
3.8mb (1 obs.)			AAI 16.21 269 ePc 29 11.50 5.0X			PP 33 06.00		
NORTHEASTERN CHINA (658)			HNR 16.48 111 eP+ 29 04.00 4.8mb X			sP 33 12.50		
ML 3.7 (BJI).			CTA 16.52 174 iPd+ 29 16.00 5.5X			PP 34 29.00		
BJI 1.48 79 ePg 29 29.50 -1.2			1.3s 182.69nm 5.0mb			MAJO 40.32 352 iPc 32 51.62 -4.1X		
eSg 29 50.50			GUMO 17.04 1 eP 29 16.00 -1.1			MAT 40.32 352 eP 32 52.00 -3.7X		
HHC 2.34 298 Pgd 29 44.00 0.7			1.4s 1046.15nm 5.8mb			Z 20s 17.73um 5.5mb		
Sg 30 15.40			QIS 17.53 195 eP 29 20.00 -3.3X			OIZ 40.77 305 P 32 58.50 -1.2		
TIY 2.52 216 Pnd 29 44.40 -1.4			pP 29 25.40			N 13s 10.90um		
Pgd 29 49.80			eS 32 17.00			E 15s 16.70um		
Sg 30 21.30			QIS 17.53 195 eP 29 20.00 -3.3X			SSE 40.98 329 iPc 33 00.00 -1.2		
BTO 3.37 285 Pg 30 02.60 4.7X			e 29 26.00			2.2s 170.00nm 5.4mb		
Sg 30 44.50			e 33 26.00			Z 20s 47.30um 6.4msz		
TIA 4.21 147 Pn 30 11.30 1.6			e 34 43.00			N 14s 20.10um		
Pg 30 20.80			WB5 18.96 210 eP 29 39.00 -1.8			E 10s 6.20um		
Sg 31 12.80			eS 33 13.50			sP 33 14.00		
XAN 7.16 219 Pn 30 50.50 -0.9			KNA 19.60 231 eP 29 47.80 -0.5			iS 39 10.00		
Pg 31 15.80			0.4s 178.00nm 5.7mb			KGM 41.47 277 eP 33 07.00 1.5		
Sn 32 10.20			MNI 20.20 284 ePc 29 55.00 0.4			NJ2 42.95 327 iPc 33 17.00 -0.4		
Sg 32 45.00			DAV 21.59 299 eP 30 12.00 3.2X			7.5s 1800.00nm 5.9mb X		
SNY 7.34 71 Pnd 30 54.00 0.1			2.3s 8000.00nm 6.7mb			Z 34s 35.30um 6.0msz X		
LZH 9.03 249 P 31 17.50 -0.1			22.89 180 eP 30 21.50 -0.1			N 15s 23.10um		
CHTO 24.73 217 eP 34 28.00 1.2			i 30 30.00 31km			E 16s 8.30um		
0.5s 1.28nm 3.8mb			RMQ 23.17 170 eP 30 23.00 -1.4			PP 35 04.00		
S.D. = 1.3 on 8 of 9 obs.			e 30 26.00 11kmX			KLM 43.27 278 eP 33 24.00 3.7X		
JUN 07, 1990 09h 25m 19.19± 0.17s			BRS 25.00 162 iPc+ 30 43.00 0.9			PPI 44.11 273 eP 33 28.60 1.5		
3.563 S ± 3.5km 144.432 E ± 4.2km			i 30 47.20			0.8s 187.70nm 6.0mb		
DEPTH = 29.3km (8 depth phases)			iP 30 52.00 32km			IPM 44.12 280 ePc 33 29.50 2.4		
5.9mb (50 obs.) 6.5msz (29 obs.)			eS 34 42.00			1.4s 178.10nm 5.7mb		
NEAR N COAST OF PAPUA NEW GUINEA(200)			PVC 27.32 123 iP 31 01.00 -2.6			WHN 44.45 322 Pc 33 30.50 1.0		
Ms 6.9 (BRK), 6.1 (PAS).			COO 27.78 166 iPc 31 09.10 1.4			8.0s 1700.00nm 6.0mb X		
Mo=1.1*10**19 Nm (PPT).			CMS 27.81 177 eP 31 07.00 -0.9			Z 18s 10.90um 5.8msz		
FAULT PLANE SOLUTION: P-Waves			e 33 00.00			N 15s 12.80um		
NP1:Strike= 83 Dip=89 Slip= 0			DZM 28.19 133 iPc 31 10.60 -1.0			E 13s 7.70um		
NP2: 173 90 181			WARB 28.23 215 eP 31 12.00 0.2			SNG 45.01 284 eP 33 26.20 -8.1X		
Principal Axes:			0.5s 130.00nm 5.9mb			eS 40 10.30		
T Plg= 1 Azm=308			STK 28.30 185 iPc 31 11.40 -0.9			CNZ 45.35 146 eP 33 36.40 -0.4		
P 1 38			1.6s 116.00nm 5.3mb			PSI 45.91 277 ePd 33 42.40 1.0		
Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting. The preferred fault plane is not determined.			eS 35 55.00			1.2s 502.30nm 6.3mb		
RADIATED ENERGY			QCP 29.37 309 eP 31 10.50 -11.7X			LTZ 46.25 152 P 33 43.90 0.2		
No. of sta: 5 Focal mech. F			MBL 29.63 232 eP 31 23.00 -1.5			MNG 46.29 147 eP 33 42.20 -1.9		
Energy 3.2±1.0*10**14 Nm			0.5s 40.00nm 5.4mb			SNZO 46.37 148 iP+ 33 48.00 3.4X		
MOMENT TENSOR SOLUTION			KKM 29.75 289 ePd 31 26.50 0.8			S 40 34.00		
Dep 40 No. of sta: 13			BAG 30.82 311 eP+ 31 33.00 -2.2			SS 44 10.00		
Moment Tensor: Scale 10**18 Nm			eS 36 41.00			SAP 46.49 357 eP 33 43.00 -2.5		
Mrr= 0.44 Mtt=-1.18			BWA 30.93 174 eP 31 35.70 -0.1			KHZ 46.59 150 eP 33 47.80 1.5		
Mff= 0.73 Mrt=-0.50			FORR 31.21 208 iPc 31 20.40 -17.9X			LOE 47.00 298 eP 33 50.00 0.0		
Mrf= 0.72 Mtf= 4.53			ADE 31.69 189 ePd- 31 42.50 -0.1			TIA 47.08 330 Pd 33 49.00 -1.4		
Principal axes:			1.0s 270.00nm 6.1mb			2.0s 200.00nm 5.8mb		
T Val= 4.43 Plg= 4 Azm=309			CAN 31.88 173 eP 31 43.20 -1.0			Z 32s 53.30um 6.3msz X		
N 0.56 80 197			e 34 41.90			N 15s 19.10um		
P -4.98 9 39			TRT 31.90 261 ePd 31 44.40 -0.2			E 16s 17.00um		
Best Double Couple: Mo=4.7*10**18			CNB 31.92 172 eP 31 44.80 0.2			pP 33 57.50 28km		
NP1:Strike= 84 Dip=81 Slip= -4			1.2s 153.00nm 5.8mb			S 40 37.00		
NP2: 174 86 -171			BFD 33.50 183 eP 31 58.00 -0.2			GYA 47.16 312 iPc 33 53.00 1.7		
CENTROID, MOMENT TENSOR (HRV)			e 32 05.00 24km			N 15s 4.90um		
Data Used: GDSN			MEKA 33.77 225 eP 32 00.90 0.2			E 15s 11.70um		
L.P.B.: 17S, 44C M.W.: 11S, 25C			0.6s 52.00nm 5.6mb			DL2 47.21 336 eP 33 50.00 -1.3		
Centroid Location:			NANU 33.77 233 eP 32 00.00 -0.8			Z 24s 29.60um 6.2msz X		
Origin Time 09:25:24.0 0.1			0.4s 14.00nm 5.2mb			N 18s 27.70um		
Lat 3.33S 0.01 Lon 144.77E 0.01			TOO 33.86 178 eP 32 02.00 0.6			E 12s 6.40um		
Dep 15.0 FIX Half-duration 6.7			e 32 10.00 27km			S 40 42.00		
Moment Tensor: Scale 10**18 Nm			COOL 34.94 216 iPd 32 10.00 -0.8			ScS 43 43.00		
Mrr=-0.57 0.05 Mtt=-0.51 0.06			0.7s 132.00nm 6.0mb			NST 47.81 295 iPc 33 57.00 0.6		
Mff= 1.09 0.06 Mrt=-0.59 0.22			ANP 36.21 323 iP 32 21.60 -0.1			SNY 49.00 339 iPc 34 03.00 -2.2		
Mrf=-0.21 0.25 Mtf= 5.66 0.05			SVA 36.31 116 eP 32 25.10 2.6			1.6s 300.00nm 6.1mb		
Principal Axes:			MRWA 37.14 224 eP 32 29.00 -0.3			Z 20s 63.60um 6.6msz		
T Val= 6.05 Plg= 5 Azm=131			0.5s 27.00nm 5.3mb			N 17s 19.80um		
N -0.60 84 273			KLB 37.51 219 eP 32 32.00 -0.4			E 16s 22.80um		
P -5.45 4 41			BAL 37.53 221 eP 32 32.00 -0.6			sP 34 18.00		
Best Double Couple: Mo=5.8*10**18			OZH 37.85 320 Pc 32 33.50 -1.8			iS 41 04.00		
NP1:Strike=176 Dip=84 Slip= 179			0.8s 200.00nm 6.0mb			SS 44 30.00		
NP2: 266 89 6			Z 30s 77.80um 6.3msz X			BDT 49.37 296 eP 34 10.00 1.6		
MNDI 2.69 197 eP 26 05.00 3.4X			MUN 38.75 220 eP 32 43.00 0.2			1.4s 217.80nm 6.0mb		
LAT 4.00 140 eP 26 18.00 -2.0			1.0s 140.00nm 5.7mb			KMI 49.49 308 iPc 34 10.61 1.0		
KDB 6.47 155 iPc 26 53.00 -1.9			eS 38 44.00			Z 30s 34.40um 6.2msz X		
			HKC 39.19 312 iP 32 47.30 0.7			N 10s 2.20um		
			iS 38 57.00			E 10s 2.00um		
			TAU 39.26 177 ePd 32 46.16 -0.8			eHPP 36 04.28		
			MCO 39.53 312 eP 32 53.60 4.1X			eS 41 20.08		
			GZH 40.27 313 Pc 32 56.60 1.1			MDJ 49.77 346 eP 34 09.40 -1.7		

KDC 15.42 56 eP 31 34.00 1.7
TTA 16.07 36 eP 31 41.50 0.8
IMA 18.82 30 eP 32 13.00 -2.0
FBA 20.19 37 eP 32 26.00 -4.1X
MBC 33.15 22 eP 34 30.00 -0.6
PNT 35.76 70 eP 34 54.00 0.6
0.6s 5.00nm 4.6mb
EDM 37.72 62 eP 35 08.50 -1.3
SES 40.24 65 eP 35 30.00 -0.8
MTN 78.25 232 iPc 39 53.80 0.1
0.7s 9.00nm 4.9mb
SLR 148.06 314 ePKP 47 37.00 0.8
S.D. = 1.3 on 10 of 11 obs.

JUN 07, 1990 10h 34m 15.65± 1.13s
38.130 N ± 9.2km 23.627 E ±17.2km
DEPTH = 33.0km (normol)
GREECE (364)
ML 2.5 (ATH).

ATH 0.17 156 ePb 34 21.80 -0.2
eSb 34 26.60
NEO 1.22 345 ePn 34 36.50 0.1
VLI 1.51 202 ePn 34 41.00 0.3
ITM 1.65 235 ePn 34 42.50 -0.2
S.D. = 0.4 on 4 of 4 obs.

JUN 07, 1990 11h 18m 50.59± 0.16s
60.177 N ± 2.5km 152.324 W ± 2.0km
DEPTH = 103.7km (11 depth phases)
4.7mb (33 obs.)
SOUTHERN ALASKA (2)

Felt (IV) at Kenai, Ninilchik
and Willow. Felt (III) at
Anchorage, Chugiak, Eagle River,
Girdwood, Homer, Palmer, Peters
Creek, Sterling and Tolkeetno.

RED 0.33 318 iP 19 05.71 -0.4
RDT 0.40 354 iP 19 06.13 -0.3
eS 19 17.31
NNL 0.53 104 iP 19 08.25 1.0
NKA 0.78 43 iP 19 11.53 2.2
XLV 0.79 157 iP 19 09.44 0.0
BRLK 0.83 119 iP 19 10.08 0.2
eS 19 24.09
CNPm 0.85 139 iP 19 10.44 0.4
AUL 0.98 216 iP 19 11.43 0.1
AUE 0.98 213 iP 19 11.25 -0.1
SPU 1.02 7 iP 19 12.29 0.5
iS 19 27.53
CRP 1.10 4 iP 19 13.44 0.6
SLKM 1.10 71 iP 19 12.63 -0.1
iS 19 29.08
CGLM 1.15 8 iP 19 13.94 0.6
eS 19 29.79
NCG 1.23 4 iP 19 14.88 0.5
CDD 1.42 209 iP 19 16.35 -0.1
MCNL 1.43 227 iP 19 16.34 -0.2
SEW 1.44 92 iP 19 16.26 -0.4
SUA 1.51 30 iP 19 18.67 1.0
PMS 1.73 51 iP 19 21.11 0.7
SKT 1.85 12 iP 19 22.32 0.4
SVW 1.87 301 iPc 19 21.70 -0.5
PWA 1.90 38 iP 19 23.51 1.0
PLRM 2.11 46 iP 19 25.50 0.3
eS 19 50.85
PMR 2.11 46 iPc 19 25.40 0.2
GHO 2.30 45 iP 19 28.27 0.4
MTU 2.35 93 eP 19 28.75 0.3
KDC 2.44 182 iPd 19 28.80 -0.8
CUT 2.45 23 iP 19 30.46 0.8
SML 2.54 48 iP 19 31.33 0.3
GLI 2.68 72 iP 19 31.39 -1.5
VZW 2.98 70 iP 19 36.01 -0.9
HUR 3.09 23 eP 19 39.19 0.8
VLZ 3.10 69 iP 19 37.67 -0.8
MID 3.12 101 eP 19 37.70 -1.0
NCA 3.23 53 iP 19 40.55 0.2
TTA 3.28 329 iPd 19 40.80 -0.2
KLU 3.40 64 iP 19 42.29 -0.4
KTH 3.45 10 eP 19 43.45 0.0
TOA 3.55 54 iPc 19 45.40 0.6
MCK 3.91 23 eP 19 50.08 0.5
SDG 4.03 51 eP 19 51.54 0.3
PAX 4.31 46 iP 19 55.64 0.5
NEA 4.67 17 eP 19 59.27 -0.7

DDM 4.73 37 iP 20 02.69 1.7
TGL 4.74 79 eP 19 59.35 -1.7
WRH 4.74 23 iP 20 00.38 -0.6
CCB 4.95 23 eP 20 02.82 -1.1
DMW 4.97 36 iP 20 04.89 0.7
BALM 4.99 76 eP 20 03.07 -1.5
FBA 5.18 22 eP 20 06.20 -0.9
DOT 5.23 45 eP 20 07.44 -0.3
GLM 5.34 23 eP 20 08.16 -1.1
IMA 5.95 355 eP 20 16.80 -1.0
PCA 6.03 86 eP 20 17.87 -1.0
BCPM 6.36 87 iP 20 22.82 -0.5
YKU 6.38 90 eP 20 23.90 0.4
SDN 6.53 226 eP 20 24.50 -1.0
HQN 6.82 90 eP 20 27.56 -2.1
DWY 7.18 52 P 20 34.20 -0.4
HYT 7.35 79 P 20 36.00 -0.9
ANM 7.49 312 eP 20 38.40 -0.3
SIT 9.40 102 eP 21 03.50 -1.1
INK 11.49 37 eP 21 31.00 -1.5
ADK 15.87 249 eP 22 29.40 0.5
MBC 19.73 23 ePc 23 12.90 -0.9
0.6s 49.00nm 5.0mb
SMY 19.81 263 eP 23 14.90 0.1
0.7s 116.28nm 5.3mb
PNT 21.54 106 eP 23 36.00 3.6X
EDM 22.22 91 eP 23 41.50 2.4
NEW 23.47 105 eP 23 54.50 3.3X
1.1s 11.57nm 4.2mb
SES 25.06 94 eP 24 11.00 4.7X
FFC 27.06 79 eP 24 48.00 23.4X
1.1s 15.00nm
KVN 30.09 119 eP 24 54.00 1.9
ePp 25 18.00 108km
BW06 31.10 105 eP 25 01.50 0.5
ePp 25 25.50 108km
FRB 36.89 47 ePd 25 50.00 0.0
SCH 43.21 57 eP 26 43.00 0.7
pP 27 07.00 102km
WVLY 46.68 78 eP 27 11.20 1.1
RSNY 47.07 73 eP 27 12.50 -0.7
0.9s 10.07nm 4.6mb
WNY 47.51 72 eP 27 37.70 107km
ePp 27 17.00 0.4
ePp 27 41.50 103km
PWLA 47.74 92 eP 27 19.80 1.4
HBVT 47.91 72 eP 27 20.40 0.7
ePp 27 44.50 101km
NIIJ 48.17 274 P 27 21.90 0.2
CHJJ 49.10 273 P 27 29.10 0.2
MAT 49.11 274 eP 27 29.00 0.0
1.7s 126.92nm 5.6mb
MTMJ 49.28 274 P 27 29.80 -0.6
TKL 49.34 88 eP 27 32.00 1.2
ePp 27 55.80 99km
NAV 49.53 84 eP 27 33.50 1.3
ePp 27 57.00 98km
CN2 49.74 290 Pc 27 33.30 -0.4
1.0s 80.00nm 5.7mb
BLA 49.80 84 eP 27 35.50 1.2
ePp 27 59.50 100km
TBR 49.80 75 eP 27 35.00 0.8
ePp 27 59.50 102km
IIDJ 50.09 273 P 27 36.70 0.2
KEV 50.36 0 eP 27 37.00 -1.0
JSC 51.69 87 eP 27 46.70 -1.9
ePp 28 13.50 113km
SNY 52.13 290 Pc 27 51.80 0.0
SOD 52.75 1 iP 27 55.30 -0.8
BJI 56.98 294 eP 28 26.50 -0.5
1.2s 16.00nm 4.9mb
SUF 57.42 1 iP 28 29.40 -0.4
0.5s 5.50nm 4.8mb
NAO 58.63 10 P 28 36.80 -1.5
0.8s 4.50nm 4.6mb
HFS 59.53 8 eP 28 43.00 -1.5
1.0s 10.00nm 4.9mb
Z 20s 2.32um 5.3msz
LR 29 03.00
NUR 59.62 2 iP 28 44.00 -1.1
0.7s 20.00nm 5.3mb
NJ2 62.22 286 Pc 29 02.50 -0.5
EKA 62.25 19 P 29 03.00 0.0
0.7s 9.40nm 4.9mb
GTA 64.60 305 P 29 18.40 -0.3
1.0s 10.00nm 4.7mb
XAN 65.20 295 P 29 21.60 -0.9

LZH 65.73 300 Pd 29 25.50 -0.5
0.5s 30.00nm 5.5mb
BRG 68.75 9 eP 29 44.50 0.0
1.0s 10.00nm 4.6mb
MOX 68.77 11 e(P) 29 45.50 0.8
FLN 69.04 20 eP 29 46.00 -0.3
0.8s 14.80nm 4.9mb
LDF 69.26 19 eP 29 47.50 -0.2
0.5s 2.90nm 4.4mb
GRR 69.33 20 eP 29 48.20 0.1
0.8s 8.05nm 4.6mb
LPF 69.65 20 eP 29 50.40 0.4
0.7s 6.60nm 4.6mb
PRU 69.68 9 P 29 50.70 0.5
CD2 70.16 298 eP 29 53.20 -0.3
KHC 70.45 10 P 29 55.80 0.8
HAU 70.79 15 eP 29 57.10 0.1
BSF 71.01 15 eP 29 58.60 0.1
0.6s 3.60nm 4.4mb
LOR 71.17 17 eP 29 59.40 0.1
0.7s 8.80nm 4.7mb
MFF 71.19 20 eP 29 59.60 0.2
0.7s 6.60nm 4.6mb
SSF 71.32 17 eP 30 00.40 0.2
0.8s 13.45nm 4.8mb
LBF 71.46 17 eP 30 00.90 -0.2
0.7s 4.40nm 4.4mb
AVF 71.56 17 eP 30 01.40 -0.2
0.6s 8.10nm 4.7mb
BGF 71.71 18 eP 30 02.40 -0.1
0.8s 11.40nm 4.7mb
SMF 71.77 17 eP 30 02.60 -0.3
0.8s 7.40nm 4.6mb
LSF 71.80 19 eP 30 02.80 -0.3
0.7s 10.45nm 4.8mb
TCF 71.88 18 eP 30 03.30 -0.2
0.5s 1.80nm 4.1mb
MAF 72.00 18 eP 30 04.20 0.0
GYA 72.65 293 P 30 09.40 0.9
LFF 72.95 20 eP 30 10.10 0.3
0.7s 6.60nm 4.6mb
CAF 73.18 19 eP 30 11.20 0.0
0.7s 3.30nm 4.3mb
LPO 73.27 19 eP 30 11.80 0.1
0.6s 7.20nm 4.7mb
PGF 76.49 14 eP 30 30.50 0.3
0.8s 13.45nm 4.8mb
GUN 80.20 310 P 30 51.90 0.9
GKN 80.59 311 P 30 53.70 0.9
PKI 80.68 310 P 30 54.40 0.9
DMN 80.77 311 P 30 55.00 1.2
S.D. = 0.8 on 130 of 134 obs.

JUN 07, 1990 12h 18m 26.33s
60.904 N 147.584 W
DEPTH = 21.2km
SOUTHERN ALASKA (2)
<AGS-P>
GLI 0.24 96 iP 18 32.13 -0.1
VZW 0.53 72 iP 18 36.08 -0.8
IS 18 44.05
VLZ 0.65 69 iP 18 37.89 -1.0
SML 0.98 339 eP 18 43.12 -1.4
IS 18 56.68
KLU 1.00 53 iP 18 43.39 -1.5
IS 18 56.74
PLRM 1.02 313 eP 18 43.26 -1.9
PMS 1.02 290 eP 18 43.50 -1.7
eS 18 56.80
GHO 1.08 324 eP 18 44.75 -1.6
NCA 1.15 18 eP 18 45.86 -1.4
SEW 1.22 230 eP 18 46.41 -1.8
PWA 1.34 305 iP 18 48.63 -1.2
SLKM 1.36 254 eP 18 48.65 -1.5
TOA 1.38 29 eP 18 49.11 -1.4
eS 19 06.65
SUA 1.63 292 eP 18 52.88 -1.3
CUT 1.98 321 eP 18 58.50 -0.6
CGLM 2.19 283 eP 18 59.86 -2.3
SPU 2.19 279 eP 19 01.15 -1.1
CRP 2.25 281 eP 19 01.90 -1.3
NCG 2.27 285 eP 19 02.26 -1.2
CNPM 2.29 234 eP 19 02.09 -1.5
TGL 2.33 92 eP 19 04.02 -0.2
RDT 2.39 264 eP 19 03.76 -1.3
BALM 2.56 85 eP 19 05.73 -1.8

07d 11h

23 obs. associated

& JUN 07, 1990 12h 56m 39.71s
31.080 N 116.670 W
DEPTH = 9.5km
BAJA CALIFORNIA (48)
<ECX>. MD 2.9 (ECX).

Table with columns for station ID (PBX, ENX, SPX, CBX, ECBX, EMX), depth, and associated values.

6 obs. associated

? JUN 07, 1990 13h 23m 55.99± 3.21s
33.813 S ±18.9km 72.569 W ±23.1km
DEPTH = 33.0km (normal)
3.8mb (1 obs.)
OFF COAST OF CENTRAL CHILE (134)

Table with columns for station ID (LCCH, LNV, IHA, TACH, ROCH, CHCH, SAN, PCH, FCH, JACH, RTCB, ZON, RTLL, RTRS, CGH, LPB, ZOBD, SIV, ITR), depth, and associated values.

* JUN 07, 1990 13h 24m 39.38± 0.35s
16.125 S ±12.5km 176.885 W ± 9.1km
DEPTH = 33.0km (normal)
5.3mb (20 obs.) 5.2Msz (5 obs.)
FIJI ISLANDS REGION (181)

Table with columns for station ID (SVA, DZM, HNR), depth, and associated values.

Main table with columns for station ID (RMQ, CNB, CAN, BWA, CMS, QLP, TOO, STK, WB5, MTN, IIDJ, MAT, Z, MTMJ, PRS, MHC, FRI, RVR, PLM, SBB, ISA, CMB, WDC, ORV, MIN, CLC, KDC, GSC, MDJ, Z, KVN, TNP, CN2, Z, E, SNY, TTA, PMR, WHN, TOA, PNT, BJI, Z, IPM, FBA, IMA, ALO, ANMO, LRM, SNG, BW06, PSI, TIY, Z, N, XAN, GOL, LOE, HHC, NNT, SES, BTO, N, E), depth, and associated values.

Table with columns for station ID (KMI, RSSD, CD2, CHG, CHTO, INK, LZH, Z, FFC, GTA, MBC, MAIO, ITR, CLL, WTS, SPC, BRG, MOX, PRU, Z, BBTk, MLR, ENN, MEM, CMP, TNS, BHL, GRF, KHC, SRO, ZST, BUD, DOU, WET, SOP, LFK, KMR, FLN, BHG, LDF, PRNI, CDF, GRR, BEO, MBH, LPF, HAU, BSF, SOTA, FVI, LJU, VOY, LOR, VBY, CEY, SSF, TRI, LBF), depth, and associated values.

IZM	149.30	321	ePKP	44	26.00	3.8X
CTI	149.32	348	PKP	44	25.00	2.9X
AVF	149.42	368	ePKP	44	24.80	2.7X
	1.4s	26.15nm				
SMF	149.56	359	ePKP	44	25.40	3.1X
BGF	149.66	8	ePKP	44	26.20	3.8X
	1.3s	37.90nm				
VAY	149.79	330	ePKP	44	25.50	2.7X
SKO	149.80	332	ePKP	44	25.00	2.2X
		i	44	29.00		
TCF	149.92	1	ePKP	44	26.60	3.7X
MDI	149.93	351	PKP	44	30.00	7.2X
LSF	149.94	2	ePKP	44	26.60	3.7X
	1.0s	26.00nm				
VAI	149.97	352	PKP	44	29.40	6.5X
MAF	149.99	1	ePKP	44	27.30	4.3X
	1.5s	52.25nm				
LPL	150.54	355	ePKP	44	29.20	5.1X
LPG	150.56	355	ePKP	44	29.50	5.3X
	1.3s	39.70nm				
OHR	150.78	332	ePKP	44	20.50	-3.9X
	1.4s	117.00nm				
		e	44	29.50		
BOB	150.95	351	PKP	44	33.50	9.0X
BN1	151.01	355	PKPd	44	31.00	6.3X
PGD	151.39	347	PKP	44	31.00	5.7X
CK1	151.45	352	PKP	44	30.00	4.8X
DOI	151.50	354	PKP	44	31.00	5.6X
CRE	151.57	346	PKP	44	30.00	4.5X
PII	151.78	349	PKP	44	28.00	2.3X
ASS	151.93	345	PKP	44	32.00	6.0X
AZI	152.74	343	PKP	44	38.00	10.9X
SDI	152.89	342	PKP	44	37.00	9.6X
BCAO	160.91	234	iPKPd	44	39.50	1.5
	1.6s	39.00nm				
		i	45	22.50		

S.D. = 1.2 on 83 of 141 obs.

* JUN 07, 1990 13h 53m 45.00±1.13s
44.143 N ±27.5km 148.275 E ±12.4km
DEPTH = 33.0km (normol)
4.8mb (8 obs.) 4.2msz (2 obs.)
KURIL ISLANDS (221)

AOMJ	6.86	241	eP	55	21.60	-4.2X
			eS	56	35.00	
OFUJ	7.08	227	P	55	21.40	-7.5X
			S	56	34.30	
YAMJ	8.61	229	P	55	43.10	-7.1X
MAT	10.79	229	(P)	56	13.00	-7.3X
	1.0s	6.00nm			4.8mb	
		eS	58	08.00		
MDJ	13.38	279	eP	56	56.00	1.1
CN2	16.43	277	eP	57	31.60	-2.9
		eP	57	41.50		
BJ1	24.08	271	eP	59	00.00	1.8
	1.2s	34.00nm			4.8mb	
NJ2	25.97	252	Pc	59	18.00	1.8
	Z 20s	0.40um			3.9msz	
TIY	27.67	269	eP	59	34.00	2.2
BTO	28.31	276	eP	59	37.00	-0.6
LZH	34.57	272	Pc	00	31.50	-1.3
	2.0s	46.00nm			5.1mb	
	Z 25s	0.60um			4.2msz	
		pP	00	40.00	29kmX	
GTA	36.03	280	P	00	45.20	0.1
	1.2s	10.00nm			4.6mb	
	Z 26s	1.50um			4.6msz	
CD2	37.25	265	eP	00	54.60	-0.7
WMO	42.71	292	P	01	40.60	0.2
INK	45.65	31	eP	02	05.00	1.3
CHTO	48.17	255	eP	02	22.30	-1.8
	1.0s	2.00nm			4.1mb	
WDC	62.77	59	eP	04	11.10	1.9
ORV	64.02	59	eP	04	20.70	3.2X
FFC	64.90	37	eP	04	23.00	0.1
	0.6s	5.00nm			4.8mb	
LRM	65.48	49	eP	04	26.30	-0.9
CMB	65.64	60	e(P)	04	26.00	-2.0
FR8	68.57	17	eP	04	45.00	-1.0
HFS	69.64	338	eP	04	52.00	-0.6
	0.8s	6.80nm			4.8mb	
	Z 19s	0.28um			4.5msz	
		LR	32	00.00		
NAO	69.81	339	P	04	53.60	-0.1
	1.1s	8.90nm			4.7mb	

CLL	77.34	333	eP	05	38.00	0.4
			i	05	49.80	
BRG	77.40	332	e(P)	05	50.80	12.8X
PRU	77.95	332	eP	05	41.00	0.0
			e	05	54.10	
MOX	78.36	334	e(P)	05	56.00	12.7X
KHC	79.01	332	P	05	48.00	1.1

S.D. = 1.4 on 22 of 29 obs.

JUN 07, 1990 14h 48m 14.03±0.58s
36.832 N ± 6.3km 21.304 E ± 3.9km
DEPTH = 58.2 ± 6.4 km
4.3mb (5 obs.)
SOUTHERN GREECE (368)

ITM	0.61	55	iPnd	48	26.30	-0.9
VLI	1.32	94	iPnd	48	38.50	2.0
VLS	1.46	337	ePn	48	40.00	1.6
ATH	2.23	59	ePn	48	51.00	1.8
			eSn	49	15.50	
VAM	2.74	120	ePn	48	57.00	0.5
NEO	2.90	31	ePn	48	59.60	0.9
KEK	3.11	338	ePn	49	02.20	0.5
APE	3.39	85	ePn	49	05.00	-0.8
OHR	4.29	355	iPn	49	19.20	0.9
			iSn	50	07.00	
			Lg	50	12.00	
SOI	4.36	288	P	49	20.00	0.8
LCI	4.37	324	P	49	18.10	-1.3
			eSn	50	03.00	
SMG	4.50	77	ePn	49	21.00	-0.2
TDS	4.82	307	P	49	25.00	-0.8
IZM	4.98	70	ePn	49	28.00	-0.1
ORI	4.99	312	P	49	28.00	0.6
			eSn	50	19.70	
MMB	5.11	21	iPc	49	30.00	0.1
			eS	50	27.00	
MEU	5.11	275	P	49	30.20	0.2
			eSn	50	25.50	
ULC	5.37	343	ePn	49	31.80	-1.6
			eSn	50	32.00	
RDO	5.42	36	ePn	49	33.80	-0.4
RZN	5.52	28	iPc	49	36.00	0.2
MGR	5.59	308	P	49	36.00	-0.5
KDZ	5.77	32	iP	49	39.00	-0.1
			eS	50	37.00	
TTG	5.81	345	ePn	49	38.30	-1.3
			eSn	50	42.00	
SGO	5.99	310	P	49	42.00	-0.1
KSL	6.71	94	ePn	49	52.20	0.0
DUI	7.17	314	P	49	59.00	0.3
CMP	8.89	17	ePc	50	21.00	-1.3
DSI	12.78	110	e(P)	51	12.00	-2.8
PRNI	13.11	116	eP	51	15.00	-4.3X
NUR	23.79	4	eP	53	22.00	0.1
HFS	23.83	351	eP	53	22.50	0.2
	0.5s	4.30nm			4.2mb	
NAO	24.92	348	P	53	33.40	0.6
	0.7s	2.10nm			3.7mb	
SUF	26.09	5	eP	53	44.00	0.4
GKN	53.33	80	P	57	29.50	-0.2
	0.6s	7.00nm			4.9mb	
DMN	53.88	80	P	57	34.00	0.1
	0.6s	10.00nm			5.0mb	
PKI	54.14	80	P	57	35.60	-0.2
GUN	54.35	80	P	57	37.20	-0.3
CHTO	69.27	82	eP	59	18.30	1.1
	1.0s	1.75nm			3.9mb	

S.D. = 1.0 on 37 of 38 obs.

JUN 07, 1990 15h 30m 13.17±0.29s
10.990 N ± 3.9km 62.992 W ± 3.7km
DEPTH = 17.9km (6 depth phases)
4.8mb (11 obs.)
NEAR COAST OF VENEZUELA (97)
ML 5.1 (FDF). MD 4.4 (TRN).

TCE	1.25	103	eP	30	34.20	-1.5
			eS	30	48.84	
TRN	1.60	102	eP	30	40.40	-0.3
			eS	31	00.60	
TPP	1.66	114	eP	30	43.50	2.0
			eS	31	02.64	
GRW	1.75	48	eP	30	44.00	1.1
			eS	31	01.00	
TBH	1.96	105	eP	30	47.11	1.2
			eS	31	08.84	

TPR	2.18	85	eP	30	47.39	-1.8	
			eS	31	13.56		
BOT	2.24	85	eP	30	49.96	0.0	
			eS	31	19.25		
SVB	2.84	37	eP	30	58.99	0.5	
SVV	2.89	37	eP	31	00.45	1.2	
SLB	3.40	34	eP	31	06.69	0.2	
			eS	31	45.33		
SLW	3.62	33	eP	31	09.79	0.1	
			eS	31	52.03		
BIM	3.97	28	iPc	31	15.13	0.5	
MVM	4.09	30	eP	31	16.60	0.3	
FDI	4.13	26	iPc	31	17.26	0.4	
			S	32	01.70		
CRM	4.25	28	eP	31	19.09	0.5	
DPMT	4.52	20	eP	31	23.50	1.1	
			eS	32	18.00		
BBL	4.74	18	eP	31	24.71	-0.9	
MGG	5.16	18	eP	31	31.41	0.0	
PAG	5.17	14	eP	31	31.71	0.1	
			S	32	29.00		
SFG	5.51	18	eP	31	36.40	-0.1	
SEG	5.57	15	eP	31	37.44	0.2	
MGH	5.75	7	eP	31	39.10	-0.6	
			S	32	45.00		
BPA	6.12	10	eP	31	44.84	-0.2	
NEV	6.12	4	eP	31	44.10	-0.9	
SKI	6.31	2	eP	31	47.43	-0.3	
			eS	32	59.03		
BMG	10.69	249	eP	32	45.00	-3.7X	
BOG	12.66	241	e(P)	33	18.00	2.4	
			eS	36	22.00		
PSO	17.25	237	eP	34	17.00	1.8	
NNA	26.65	211	iP	35	50.50	-2.5	
	0.7s	10.96nm			4.6mb		
SIV	26.87	176	P	35	53.60	-1.4	
ZOBO	27.56	191	P	36	02.50	0.6	
LPB	27.81	191	eP	36	03.00	-1.0	
RSCP	31.94	324	P	36	40.00	-0.2	
	0.8s	28.04nm			5.2mb		
ALQ	46.10	308	ePd	38	39.00	0.6	
	0.8s	12.13nm			4.9mb		
ANMO	46.10	308	P	38	39.00	0.6	
	0.8s	8.86nm			4.8mb		
		pP	38	45.20	21km		
GOL	47.15	315	P	38	46.80	0.0	
	0.8s	3.13nm			4.4mb		
BW06	51.30	317	P	39	18.00	-0.7	
	1.2s	12.33nm			4.7mb		
MSU	51.61	311	P	39	21.50	0.4	
			pP	39	26.80	18km	
GLA	52.24	303	eP	39	27.00	1.3	
DUG	52.63	313	P	39	28.30	-0.3	
	0.8s	9.72nm			4.8mb		
		pP	39	33.90	18km		
FFC	53.34	333	eP	39	32.50	-1.0	
	0.7s	9.00nm			4.8mb		
BAR							

S.D. = 1.1 on 60 of 64 obs.

* JUN 07, 1990 16h 06m 28.30± 0.94s
 38.771 N ± 0.1km 21.003 E ± 13.8km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 MD 3.0 (ATH).

VLS	0.68	209	ePg	06 41.00	-0.7
KEK	1.33	316	ePn	06 57.00	4.2X
ITM	1.75	155	ePg	07 00.00	1.1
NEO	1.81	72	ePb	06 58.70	-1.1
OHR	2.34	356	ePn	07 07.80	0.3
VLI	2.56	143	ePg	07 14.20	3.7X
VAY	2.82	25	ePn	07 14.50	0.3

S.D. = 1.3 on 5 of 7 obs.

? JUN 07, 1990 16h 19m 56.97± 1.72s
 53.347 N ± 27.1km 163.587 W ± 21.7km
 DEPTH = 33.0km (normal)
 4.5mb (2 obs.)

UNIMAK ISLAND REGION (10)

ADK	8.11	265	eP	21 56.00	0.8
TTA	10.40	20	eP	22 27.00	0.1
IMA	13.68	17	eP	23 11.50	0.7
INK	20.63	32	eP	24 39.00	3.4X
FRB	46.10	38	ePc	28 20.60	1.5
SOD	59.36	355	eP	29 48.00	-9.6X
SUF	64.02	355	eP	30 28.00	-0.9
NAO	66.09	3 P		30 41.50	-0.8
	0.7s	1.40nm		4.2mb	
HFS	66.85	1 eP		30 45.90	-1.2
	0.5s	5.10nm		4.9mb	
ZST	78.83	360	iP	31 47.80	-9.8X
BUL	145.55	339	iPKc	39 33.10	-0.2

S.D. = 1.1 on 8 of 11 obs.

& JUN 07, 1990 16h 43m 08.40s
 36.923 N 121.688 W
 DEPTH = 11.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 2.5 (BRK).

SAO	0.25	129	iPd	43 13.40	-0.4
GCC	0.27	293	iPc	43 13.80	-0.3
MHC	0.42	5	iPd	43 17.10	0.0
			iS	43 23.60	
ARN	0.44	16	iPc	43 17.50	0.0
PRS	0.64	156	ePd	43 20.50	-0.7
			eS	43 31.80	
LLA	0.67	117	iPc	43 21.10	-0.6
PCC	0.80	316	ePc	43 22.90	-0.9
			eS	43 34.30	
BKS	1.05	336	eP	43 28.00	0.0
			eS	43 42.60	
FRI	1.13	133	ePc	43 29.50	-0.1
FRI	1.59	87	e(P)	43 35.30	-1.2
			i	43 36.50	
KVN	3.54	52	eP	44 11.50	6.9

11 obs. associated

? JUN 07, 1990 17h 07m 18.82± 1.46s
 31.317 S ± 10.8km 68.597 W ± 17.7km
 DEPTH = 32.7 ± 11.2 km
 SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.11	97	iPd	07 24.70	0.0
ZON	0.24	197	eP	07 26.00	0.1
			eS	07 32.00	
RTCB	0.24	226	iPd	07 25.90	-0.1
RTCV	0.54	175	iPd	07 30.10	0.0
RTRS	1.36	327	iPc	07 41.70	0.0
			eS	07 59.20	

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

? JUN 07, 1990 18h 00m 45.24± 0.94s
 26.137 S ± 8.8km 28.174 E ± 9.3km
 DEPTH = 5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA (584)
 mbLg 3.4 (BUL).

SLR	0.41	14	iPd	00 54.00	0.5
	0.9s	378.15nm			
			S	01 00.40	
KSR	1.18	283	iPc	01 07.50	-0.4
	1.0s	650.00nm			

BFT	1.74	75	iPd	01 23.50	
			S	01 16.00	-0.5
			S	01 34.00	
SEK	2.23	193	iPc	01 24.00	0.4
			S	01 51.00	
SWZ	2.75	247	iPd	01 18.00	-13.0X
			S	01 51.50	
FRS	4.40	214	eP	01 59.00	4.9X
			S	02 47.50	
BUL	5.98	4	iPnd	02 12.80	-3.9X
			iSn	03 18.00	
			iSg	03 46.50	
KRI	9.36	9	iPn	03 06.00	2.1X
			iSn	04 49.00	
			iSg	05 45.00	
LSZ	10.81	0	iPc	03 21.00	-2.8X
			i	03 31.20	
			i	05 11.00	
			i	06 25.50	

S.D. = 0.9 on 4 of 9 obs.

* JUN 07, 1990 18h 26m 39.24± 1.12s
 39.699 N ± 13.0km 25.863 E ± 8.6km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)

EZN	0.38	70	iPg	26 46.00	-1.0
			iSg	26 54.00	
EDC	1.67	67	ePn	27 09.30	0.7
IZM	1.70	140	ePn	27 09.00	-0.1
VAY	2.99	304	ePn	27 27.30	-0.2
HRT	3.12	68	ePn	27 30.00	0.6

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

? JUN 07, 1990 18h 33m 12.86± 3.01s
 10.898 N ± 17.3km 61.801 W ± 26.2km
 DEPTH = 33.0km (normal)
 TRINIDAD (98)
 MD 3.3 (TRN).

TCE	0.21	167	iPc	33 19.30	-0.2
			eS	33 24.68	
TRN	0.46	122	eP	33 22.58	-0.3
			eS	33 30.32	
TPP	0.67	149	eP	33 26.32	0.4
			eS	33 38.50	
TPR	1.05	74	eP	33 31.22	0.0
			eS	33 47.69	
BOT	1.10	76	eP	33 32.07	0.1
			eS	33 48.25	
SVB	2.42	13	eP	33 58.84	7.8X
			iS	34 23.22	

S.D. = 0.4 on 5 of 6 obs.

JUN 07, 1990 18h 51m 34.15± 0.61s
 44.171 N ± 3.4km 6.292 E ± 5.9km
 DEPTH = 10.8 ± 3.7 km
 FRANCE (538)
 ML 2.7 (LDG). MD 2.2 (STR).

CALN	0.60	134	Pg	51 46.62	0.3
			Sg	51 55.74	
FRF	0.66	157	Pg	51 47.40	0.1
			Sg	51 57.00	
PZZ	0.67	60	P	51 47.47	0.0
			S	51 55.79	
MVIF	0.68	114	Pg	51 47.40	-0.2
			Sg	51 58.66	
TOUF	0.71	103	Pg	51 47.55	-0.6
LRG	0.72	176	Pg	51 48.60	0.4
			Sg	51 59.60	
DOI	0.76	64	P	51 48.40	-0.6
			eSg	51 58.70	
AURF	0.80	110	Pg	51 49.50	-0.2
ENR	0.81	86	P	51 48.18	-1.7
			S	51 57.20	
RRL	0.83	25	P	51 50.44	0.2
			S	52 00.92	
AUTN	0.84	102	Pg	51 50.06	-0.3
LMR	0.85	169	Pn	51 50.80	0.3
			Pg	51 51.60	
			Sg	52 02.60	
SBF	0.88	110	Pg	51 51.20	0.2
			Sg	52 03.60	
REVF	0.89	119	Pg	51 52.42	1.3
			Sg	52 05.04	
BNI	0.92	17	P	51 52.10	0.3

ROB	1.14	83	eSg	52 03.60	
			P	51 55.67	0.2
			S	52 09.77	
IMI	1.18	102	P	51 57.41	1.2
			S	52 12.33	
RSP	1.20	35	P	51 57.11	0.6
			S	52 11.56	
LPG	1.37	14	Pg	52 00.30	0.9
			Sg	52 18.20	
FIN	1.38	88	P	51 59.57	0.2
			S	52 17.20	
LPL	1.38	13	Pg	52 00.40	0.8
			Sg	52 19.50	
PCP	1.66	76	P	52 04.80	1.4
			S	52 25.54	
PGF	2.56	128	Pn	52 15.80	-0.5
			Sn	52 44.80	
SMF	3.02	326	Pn	52 21.20	-1.5

S.D. = 0.8 on 24 of 24 obs.

JUN 07, 1990 19h 31m 30.86± 0.36s
 32.358 N ± 5.4km 141.487 E ± 7.4km
 DEPTH = 43.5km (4 depth phases)
 5.0mb (19 obs.)
 SOUTH OF HONSHU, JAPAN (211)

MAT	4.97	328	iPc	32 44.90	-0.1
			(S)	33 41.00	
YAMJ	5.92	349	P	32 55.60	-2.7
OFUJ	6.71	1	P	33 04.80	-5.3X
			S	34 16.80	
AOMJ	8.23	354	eP	33 26.70	-3.9X
MDJ	15.36	326	eP	35 05.50	-0.6
			pP	35 11.00	
CN2	16.99	317	eP	35 26.00	-0.9
	Z	15s	0.30um		
	N	11s	0.30um		
	E	11s	0.10um		
			eP	35 35.00	
			eS	38 36.00	
SNY	17.10	309	Pc	35 30.40	2.2
	Z	16s	0.60um		
	E	16s	0.60um		
GUMO	18.94	170	eP	35 51.20	0.2
			0.9s	146.63nm	5.2mb
PJG	18.94	170	eP	35 51.30	0.3
BJI	21.77	298	eP	36 19.00	-1.5
	Z	16s	0.29um		3.8mszX
TIY	24.33	291	eP	36 45.80	0.1
	Z	16s	1.20um		4.5mszX
	E	15s	0.80um		
HHC	25.38	298	eP	36 55.00	-0.7
BTO	26.50	297	eP	37 06.50	0.4
	N	15s	0.50um		
	E	15s	0.40um		
XAN	27.24	282	P	37 12.20	-0.7
GYA	30.81	268	P	37 46.00	1.0
CD2	32.05	278	eP	37 54.20	-1.5
GTA	34.25	294	eP	38 14.00	-0.9
			1.0s	10.00nm	4.7mb
CHTO	40.41	261	eP	39 05.80	-0.8
			0.9s	0.85nm	3.5mbX
WMO	43.17	301	eP	39 30.50	1.5
MTN	46.03	194	eP	39 51.00	-1.0
GUN	47.85	280	P	40 07.30	0.4
PKI	48.36	280	P	40 10.80	0.0
DMN	48.60	280	P	40 12.80	0.3
GKN	48.85	281	P	40 14.60	0.2
			0.8s	16.00nm	5.1mb
WB5	52.39	188	iPc	40 39.00	-2.0
			i	40 51.80	46km
NDI	54.75	284	eP	40 59.50	1.1
WARB	59.91	195	eP	41 34.50	-0.3
MBC	60.99	16	eP	41 41.50	-0.1
			1.0s	5.00nm	4.6mb
GBA	61.02	268	Pc	41 43.20	0.6
			0.8s	5.40nm	4.7mb
QUE	62.49	290	eP	41 53.00	0.5
MAIO	65.85	299	eP	42 14.00	-0.2
SUF	72.19	334	iP	42 53.00	0.2
			0.5s	2.80nm	4.5mb
SES	75.72	39	eP	43 14.00	0.5
FFC	77.61	32	ePd	43 23.60	-0.3
			0.9s	10.00nm	4.8mb
HFS	78.37	336	eP	43 27.50	-0.5
			1.1s	16.50nm	4.9mb
	Z	17s	0.05um		3.9mszX

NAO	78.81 338 P	LR 17 42.00	43 30.10	-0.3
	0.9s	8.10nm	4.7mb	
FRB	81.30 13 eP	43 46.00	2.4X	
SPC	83.46 326 eP	43 55.40	0.1	
KSP	84.11 329 ePc	43 59.00	0.7	
		44 12.50	46km	
BRG	85.10 330 eP	44 04.20	0.9	
	0.8s	10.00nm	5.0mb	
		44 16.50	41km	
CLL	85.18 330 iPd	44 04.50	0.9	
	0.9s	15.00nm	5.2mb	
		44 17.00	41km	
SRO	85.34 326 eP	44 05.00	0.5	
PRU	85.50 329 eP	44 02.50	-2.8	
		44 06.00	11kmX	
ZST	85.64 326 eP	44 07.20	1.2	
		50 03.60		
		50 25.20		
MOX	86.26 331 e(P)	44 10.00	1.0	
KHC	86.56 329 eP	44 10.00	-0.6	
LOR	92.05 333 eP	44 36.60	0.1	
	0.9s	4.90nm	4.9mb	
LBF	92.24 332 eP	44 37.70	0.3	
	0.9s	4.90nm	4.9mb	
LPL	92.31 330 eP	44 38.40	0.4	
	0.7s	4.95nm	5.0mb	
LPG	92.31 330 eP	44 38.60	0.5	
	0.7s	5.50nm	5.1mb	
SSF	92.36 333 eP	44 38.30	0.4	
	0.9s	6.55nm	5.1mb	
SMF	92.57 332 eP	44 39.10	0.2	
	0.7s	2.75nm	4.8mb	
AVF	92.64 333 eP	44 39.60	0.4	
	0.9s	11.45nm	5.3mb	
TCF	93.50 333 eP	44 43.80	0.6	
LSF	93.79 333 eP	44 44.90	0.4	
	0.8s	6.70nm	5.1mb	
ZOBO	148.76 66 PKP	51 17.50	5.1X	
SIV	153.84 57 (PKP)	51 32.00	12.9X	
		S.D. = 1.0	on 52 of 57 obs.	

? JUN 07, 1990 19h 48m 49.30±13.38s
51.327 N ±61.4km 16.383 E ±96.4km
DEPTH = 10.0km (geophysicist)
POLAND (548)

KSP	0.49 187 iP	48 59.00	-0.2
	iS	49 07.50	
BRG	1.60 254 iPg	49 17.00	-0.7
	iSg	49 37.20	
PRU	1.78 222 Pg	49 21.00	0.7
	Sn	49 37.60	
	eSg	49 44.70	
CLL	2.12 271 iPn	49 25.50	0.3
	iP	49 28.10	
	iSg	49 55.70	
KHC	2.84 220 ePn	49 35.50	-0.1
	Pg	49 40.50	
	Sn	50 08.80	
	Sg	50 17.30	
MOX	3.09 259 eP	49 46.00	7.0X
	eSg	50 26.00	
		S.D. = 0.7	on 5 of 6 obs.

? JUN 07, 1990 20h 37m 51.33±12.34s
44.119 N ±74.7km 6.380 E ±58.3km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.2 (LDG).

FRF	0.59 161 Pg	38 03.00	-0.3
	Sg	38 12.60	
LRG	0.66 181 Pg	38 04.20	-0.3
	Sg	38 15.20	
LMR	0.79 173 Pg	38 07.30	0.6
	Sg	38 19.20	
SBF	0.80 108 Pg	38 07.00	0.0
	Sg	38 19.00	
		S.D. = 0.7	on 4 of 4 obs.

& JUN 07, 1990 20h 46m 29.49s
63.254 N 150.549 W
DEPTH = 133.0km
CENTRAL ALASKA (1)
<AGS-P>.

KTH	0.34 331 iP	46 48.04	1.3
	eS	47 01.77	
HUR	0.50 123 eP	46 48.75	-0.4
	eS	47 03.48	
CUT	0.86 171 eP	46 51.32	-0.4
	eS	47 09.19	
MCK	0.87 56 eP	46 51.33	-0.5
SKT	1.36 200 iP	46 55.90	-0.7
NEA	1.48 25 eP	46 56.54	-1.4
WRH	1.64 41 eP	46 58.70	-1.0
GHO	1.67 152 iP	46 59.51	-0.6
SML	1.78 144 iP	47 00.39	-1.0
PLRM	1.79 158 iP	47 00.55	-1.0
SUA	1.80 183 eP	47 01.55	-0.2
CCB	1.85 40 eP	47 01.14	-1.1
NCG	2.00 203 eP	47 03.92	-0.3
CGLM	2.07 200 eP	47 05.35	0.4
PMS	2.07 167 eP	47 04.23	-0.7
NCA	2.14 125 iP	47 04.90	-0.9
SPU	2.20 199 eP	47 06.35	-0.2
CKL	2.23 203 eP	47 06.89	-0.1
TOA	2.33 118 iP	47 07.68	-0.5
PAX	2.33 95 eP	47 07.37	-0.8
NKA	2.54 188 eP	47 12.77	2.0
SLKM	2.76 177 eP	47 13.00	-0.7
KLU	2.79 127 eP	47 12.51	-1.6
RDT	2.83 199 eP	47 14.94	0.3
GLI	2.88 144 iP	47 13.54	-1.8
VZW	2.89 138 eP	47 13.47	-2.0
VLZ	2.91 135 eP	47 13.53	-2.0
SEW	3.21 170 eP	47 18.31	-1.2
CNPM	3.76 185 eP	47 25.80	-1.0
TGL	4.42 121 eP	47 34.00	-1.8
BALM	4.45 116 eP	47 34.21	-2.0
		31 obs. associated	

& JUN 07, 1990 21h 03m 49.31s
31.730 N 115.900 W
DEPTH = 2.5km
BAJA CALIFORNIA (48)
<ECX>. ML 1.5 (ECX).

RDX	0.21 349 ePd	03 53.37	-0.1
	S	03 56.68	
EMX	0.62 65 eP	04 00.58	-1.0
	S	04 08.97	
PBX	0.70 271 ePd	04 01.90	-1.5
	S	04 11.58	
CBX	0.87 312 iPd	04 04.90	-1.9
	S	04 16.81	
		4 obs. associated	

* JUN 07, 1990 22h 18m 24.33±1.13s
17.609 N ±15.1km 40.466 E ±12.5km
DEPTH = 10.0km (geophysicist)
4.5mb (2 obs.)
RED SEA (554)

ABHA	2.27 73 ePd	19 02.70	0.0
TAIF	3.67 358 eP	19 21.90	-0.6
TAB	21.02 13 eP	23 14.00	3.3X
MAIO	25.10 38 eP	23 56.00	5.2X
BCAO	25.15 241 iPd	23 51.10	-0.3
	1.5s	24.00nm	4.7mb
SRO	35.17 334 e(P)	25 17.20	-3.1X
	e	25 21.00	
SPC	35.50 337 e(P)	25 24.60	1.2
APO	46.91 342 eP	26 56.20	-0.4
	0.7s	1.90nm	4.3mb
		S.D. = 1.0	on 5 of 8 obs.

JUN 07, 1990 22h 24m 58.54±0.71s
40.434 N ±7.4km 22.177 E ±7.1km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 3.4 (ATH).

VAY	0.94 18 iPn	25 17.30	0.9
OHR	1.25 303 iPnc	25 20.50	-1.2
	iSn	25 40.20	
	Lg	25 42.60	
NEO	1.38 144 ePb	25 23.00	-0.9
KEK	1.96 249 ePn	25 32.00	-0.2
VLS	2.57 209 ePn	25 43.00	2.1
RDO	2.65 73 ePn	25 42.00	0.0
ATH	2.73 154 ePb	25 48.00	4.8X
ITM	3.26 184 ePb	25 57.00	6.3X

VLI	3.76 171 ePn	25 57.00	-0.8
MLR	5.76 27 eP	26 30.00	3.8X
DUI	5.96 284 P	26 30.00	0.9
SDI	6.45 284 P	26 35.00	-0.9
	eSn	27 45.00	
VOY	8.24 316 e(P)	26 55.40	-5.6X
	eS	28 33.50	
		S.D. = 1.3	on 9 of 13 obs.

* JUN 07, 1990 23h 06m 13.71±2.72s
5.094 S ±23.7km 102.450 E ±26.0km
DEPTH = 80.0 ±19.8 km
4.3mb (3 obs.)
SOUTHERN SUMATERA (274)

PPI	5.04 336 eP	07 27.60	-0.9
PSI	8.50 335 iPc	08 12.80	-3.5X
IPM	9.71 352 ePc	08 33.00	0.2
	0.8s	26.10nm	5.2mb
TRT	10.45 105 ePc	08 43.70	0.9
SNG	12.33 351 eP	09 07.50	-0.3
CHG	24.01 352 eP	11 22.90	0.7
CHTO	24.01 352 eP	11 22.10	-0.1
	0.7s	1.75nm	3.6mb
GBA	31.01 307 Pc	12 29.30	3.3X
	0.7s	4.40nm	4.3mb
WB5	34.36 118 eP	12 54.00	-1.1
GUN	36.50 335 P	13 13.00	0.2
QIS	39.22 116 eP	13 35.00	-1.1
NDI	41.44 326 iP	13 55.00	0.8
STK	45.28 131 iPc	14 26.60	1.3
SUF	88.26 333 eP	18 58.00	0.9
LNO	145.04 26 ePKP	25 43.00	-0.7
TUL	145.04 26 ePKP	25 42.90	-0.9
	0.7s	11.40nm	
		S.D. = 1.0	on 14 of 16 obs.

& JUN 07, 1990 23h 22m 02.20s
60.528 N 153.017 W
DEPTH = 138.9km
SOUTHERN ALASKA (2)
<AGS-P>.

RED	0.16 132 iP	22 20.54	0.8
RDT	0.31 81 iP	22 20.82	0.7
CKL	0.75 26 eP	22 23.41	-0.9
	eS	22 40.05	
SPU	0.81 35 eP	22 23.44	-1.2
	eS	22 39.78	
CRP	0.85 29 eP	22 24.23	-0.9
NKA	0.90 75 eP	22 26.35	1.0
CGLM	0.93 32 iP	22 24.52	-1.1
NCG	0.97 25 eP	22 25.34	-0.8
NNL	0.99 119 iP	22 26.25	0.2
AUL	1.17 191 iP	22 28.20	0.4
AUE	1.19 189 eP	22 27.70	-0.2
CNPM	1.35 138 iP	22 28.91	-0.7
	eS	22 49.81	
SLKM	1.38 90 eP	22 28.21	-1.8
SVW	1.40 296 iP	22 28.88	-1.4
SUA	1.45 49 iP	22 29.58	-1.3
MCNL	1.50 207 iP	22 31.11	-0.2
SKT	1.63 26 iP	22 31.44	-1.3
CDD	1.63 191 iP	22 32.42	-0.4
SEW	1.83 102 eP	22 33.29	-1.7
PMS	1.84 65 eP	22 33.39	-1.8
	eS	22 56.98	
PWA	1.90 52 eP	22 34.50	-1.3
PLRM	2.17 59 eP	22 37.64	-1.5
CUT	2.30 34 eP	22 39.11	-1.6
	eS	23 07.90	
GHO	2.34 56 eP	22 38.70	-2.7
SML	2.61 58 eP	22 42.24	-2.5
GLI	2.93 81 eP	22 47.04	-1.8
KTH	3.19 17 eP	22 50.64	-1.7
VZW	3.21 78 eP	22 50.59	-2.0
VLZ	3.33 77 eP	22 51.29	-2.7
NCA	3.33 61 eP	22 51.73	-2.4
KLU	3.59 71 eP	22 54.81	-2.7
TOA	3.66 61 eP	22 56.45	-2.0
		32 obs. associated	

JUN 07, 1990 23h 28m 30.46±0.77s
40.736 N ±6.4km 29.180 E ±6.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

GBZT	0.21	75	ePg	28	35.40	0.4	SDI	54.96	34	P	49	58.00	-1.0	CMP	63.64	37	ePc	51	02.00	3.1X	
YLV	0.22	139	iPg	28	38.60	0.0	MGR	54.98	37	P	49	59.00	-0.1	JSC	63.83	309	P	51	01.20	0.9	
ISK	0.34	344	ePg	28	37.50	0.0	MME	54.99	30	P	50	01.90	2.5	MLR	64.30	37	iPd	51	02.00	-1.4	
HRT	0.38	77	iPg	28	37.90	-0.4	KSR	55.10	121	eP	50	05.00	4.5X	e	59	50.00		51	03.80	0.3	
IZI	0.46	151	ePg	28	39.80	0.0	TDS	55.16	38	P	50	00.00	-0.4	BLA	64.30	313	P	51	03.80	0.3	
CTT	0.70	306	ePg	28	44.30	0.0	ASS	55.23	33	P	50	00.00	-1.0	1.0s	20.00nm			51	17.20	-2.3	
	S.D. = 0.3	on		6 of	6 obs.		PGD	55.29	31	P	50	00.00	-1.5	1.0s	16.00nm			51	22.40	-1.5	
							DUI	55.30	35	P	50	00.00	-1.5	0.9s	4.40nm			51	25.00	0.3	
							HAU	55.85	25	eP	50	05.70	0.4	67.61	309	P	51	25.00	0.3		
							BSF	55.90	25	eP	50	05.30	-0.5	67.94	19	eP	51	26.70	0.4		
							1.0s	8.00nm						0.8s	5.60nm			51	26.70	0.4	
							SLR	56.25	120	eP	50	09.00	0.2	Z	20s	0.69um		12	38.00		
							1.0s	20.00nm													
							Z	20s	5.32um												
							SEK	56.49	124	eP	50	05.00	-7.5X								
							CDF	56.56	25	eP	50	10.70	0.2								
							0.9s	6.55nm													
							CTI	56.79	29	P	50	12.30	0.1								
							DOU	56.84	22	P	50	12.90	0.6								
							Z	18s	1.40um												
							S	58	10.00												
							SQTA	57.41	28	iPd	50	15.70	-0.9								
							1.4s	31.30nm													
							i	50	47.50												
							TRI	57.61	31	eP	50	16.40	-1.4								
							FVI	57.73	30	P	50	20.00	1.4								
							BFT	57.76	120	eP	50	15.50	-4.1X								
							ENN	57.88	22	eP	50	19.00	-0.6								
							0.9s	13.00nm													
							VOY	57.90	31	eP	50	18.70	-1.2								
							CEY	57.97	31	e(P)	50	21.90	1.5								
							LJU	58.23	31	e(P)	50	22.00	-0.2								
							VBY	58.25	32	e(P)	50	24.00	1.7								
							OHR	58.77	39	eP	50	27.00	0.9								
							PTJ	58.88	32	e(P)	50	25.40	-1.4								
							EKA	58.99	14	P	50	30.00	2.7X								
							1.1s	8.20nm													
							WTS	59.20	22	eP	50	30.00	1.2								
							0.9s	9.00nm													
							GRF	59.22	26	eP	50	29.30	0.2								
							1.4s	21.00nm													
							Z	21s	0.70um												
							SKO	59.65	38	iP	50	30.00	-2.2								
							Z	21s	2.75um												
							N	19s	0.61um												
							E	21s	2.42um												
							LR	16	01.00												
							iS	58	42.00												
							KHC	59.89	28	Pc	50	34.50	0.8								
							1.2s	10.00nm													
							Z	18s	1.00um												
							N	17s	0.50um												
							e	52	44.00												
							S	58	48.00												
							VAY	60.01	39	eP	50	33.40	-1.2								
							MOX	60.10	26	eP	50	36.00	0.9								
							2.2s	50.00nm													
							Z	19s	0.80um												
							N	18s	0.60um												
							E	20s	0.50um												
							SOP	60.36	31	eP	50	37.50	0.6								
							PRU	60.94	28	P	50	41.00	0.3								
							Z	17s	0.90um												
							N	16s	0.50um												
							E	16s	0.58um												
							e	52	52.50												
							S	59	06.00												
							ZST	60.97	30	e(P)	50	39.80	-1.2								
							e	52	51.40												
							CLL	61.18	26	eP	50	43.00	0.6								
							BRG	61.29	27	eP	50	46.00	2.9X								
							0.8s	10.00nm													
							CBM	61.31	327	P	50	43.20	-0.2								
							SRO	61.35	31	eP	50	42.50	-1.1								
							e	51	08.60												
							BUD	61.51	32	eP	50	43.00	-1.7								
							BNH	61.71	324	P	50	45.20	-0.9								
							TBR	61.73	319	P	50	46.30	0.0								
							HBVT	62.67	323	P	50	52.50	0.0								
							NA2	62.74	315	P	50	52.80	-0.3								
							SGS	62.86	309	P	50	54.50	0.6								
							WNY	63.16	322	P	50	55.90	0.1								
							CVL	63.19	314	P	50	55.80	-0.3								
							SPC	63.21	31	eP	50	55.50	-0.7								

* JUN 07, 1990 23h 43m 41.91 ± 0.84s
 36.453 N ± 12.0km 27.321 E ± 6.9km
 DEPTH = 10.0km (geophysicist)
 DODECANESE ISLANDS (369)

CIN 1.30 28 eP 44 06.00 0.1
 SMG 1.31 343 ePb 44 13.70 7.6X
 APE 1.56 294 ePn 44 09.50 -0.3
 KSL 1.86 100 ePn 44 13.70 -0.3
 ELL 2.10 81 ePn 44 21.00 3.3X
 VAM 2.74 249 ePn 44 27.00 0.3
 BCK 2.80 68 ePn 44 28.00 0.3
 S.D. = 0.4 on 5 of 7 obs.

* JUN 08, 1990 00h 13m 25.57 ± 0.93s
 36.474 N ± 11.2km 27.366 E ± 7.9km
 DEPTH = 33.0km (normol)
 DODECANESE ISLANDS (369)

CIN 1.26 27 eP 13 47.00 0.0
 SMG 1.30 341 ePn 13 48.00 0.5
 APE 1.59 292 ePn 13 51.00 -0.8
 KSL 1.83 101 ePn 13 55.00 -0.2
 VAM 2.78 248 ePn 14 09.20 0.5
 S.D. = 0.7 on 5 of 5 obs.

* JUN 08, 1990 00h 24m 19.72 ± 0.55s
 9.060 S ± 9.1km 124.026 E ± 10.4km

DEPTH = 33.0km (normol) 4.5mb (4 obs.)					TIMOR (289)					OLY 26.35 347 P 37 27.00 -1.0 BLA 27.46 7 P 37 40.50 2.2 TUL 27.96 340 eP 37 42.00 -0.7 0.7s 6.90nm 4.5mb Z 18s 0.99um 4.4Msz e 37 49.50					LOR 81.62 43 eP 44 09.60 -0.1 0.6s 4.05nm 4.7mb SMF 81.67 44 eP 44 09.70 -0.3 0.6s 4.05nm 4.7mb LBF 81.73 44 eP 44 10.60 0.3 0.5s 2.55nm 4.6mb ENN 82.61 40 eP 44 15.00 0.3 0.8s 7.00nm 4.9mb WTS 83.02 39 eP 44 18.00 1.2 0.8s 13.00nm 5.2mb HAU 83.21 43 eP 44 18.20 0.2 BSF 83.53 43 eP 44 19.60 -0.1 CDF 83.78 42 eP 44 21.00 0.0 LPL 83.79 45 eP 44 20.30 -1.0 LPG 83.81 45 eP 44 20.40 -1.1 BNI 83.82 45 P 44 23.00 1.7 NAO 83.98 29 P 44 21.90 0.3 1.3s 9.30nm 4.9mb DOI 84.29 46 P 44 25.00 1.4 ORO 84.65 45 P 44 27.00 1.6 HFS 85.51 30 ePKP 44 29.00 -0.2 0.8s 6.00nm 4.8mb BOB 85.81 45 P 44 31.00 -0.2 GRF 86.13 40 eP 44 33.50 0.9 0.9s 6.00nm 4.8mb Z 19s 0.40um 4.8Msz e 44 40.20																																																																																																																																																																																																																																																																																																																																																																																											
MTN	7.93	119	iPc	26 17.60 2.0						MEO	28.03	334	eP	37 44.00 0.6						ENN	82.61	40	eP	44 15.00 0.3						WTS	83.02	39	eP	44 18.00 1.2						HAU	83.21	43	eP	44 18.20 0.2						BSF	83.53	43	eP	44 19.60 -0.1						CDF	83.78	42	eP	44 21.00 0.0						LPL	83.79	45	eP	44 20.30 -1.0						LPG	83.81	45	eP	44 20.40 -1.1						BNI	83.82	45	P	44 23.00 1.7						NAO	83.98	29	P	44 21.90 0.3						1.3s	9.30nm			4.9mb	DOI	84.29	46	P	44 25.00 1.4						ORO	84.65	45	P	44 27.00 1.6						HFS	85.51	30	ePKP	44 29.00 -0.2						0.8s	6.00nm			4.8mb	BOB	85.81	45	P	44 31.00 -0.2						GRF	86.13	40	eP	44 33.50 0.9						0.9s	6.00nm			4.8mb	Z	19s	0.40um		4.8Msz	e	44	40.20			MOX	86.21	39	e(P)	44 33.00 0.0						Z	20s	0.50um		4.9Msz	CLL	86.94	39	e(P)	44 34.00 -2.5						CTI	87.10	44	P	44 37.00 -0.6						BRG	87.61	39	eP	44 41.00 1.3						KHC	87.75	41	P	44 41.00 0.5						FVI	87.76	43	P	44 42.00 1.5						MNS	88.56	47	P	44 36.00 -8.5X						VOY	88.64	44	e(P)	44 43.00 -1.9						LJU	89.07	43	e(P)	44 48.00 1.1						AZI	89.19	48	eP	44 39.00 -8.5X						SDI	89.53	48	P	44 40.00 -9.2X						ZST	90.25	41	eP	44 49.70 -2.6						SUF	90.46	26	eP	44 53.00 0.0						SPC	91.97	39	eP	45 01.80 1.3						WBS	141.38	251	ePKP	51 20.70 -3.2X						WRA	141.40	250	PKP	51 21.00 -2.9X						0.8s	3.60nm				MTN	145.13	262	ePKP	51 32.20 1.8						0.9s	155.00nm				HYB	148.05	32	ePKP	51 36.50 1.3						GBA	150.49	38	PKPc	51 40.20 1.3						1.0s	4.50nm			
S.D. = 1.3 on 16 of 22 obs.					JUN 08, 1990 00h 31m 50.00±0.26s 9.855 N ± 4.2km 84.327 W ± 3.7km DEPTH = 10.0km (geophysicist) 4.7mb (33 obs.) 4.6Msz (4 obs.)					COSTA RICA (78) Thirteen schools and a church damaged in the Santiago de Puriscal oreo. Felt strongly in much of Costa Rica.					SCH 46.96 14 eP 40 21.00 -1.8 FRB 54.97 8 eP 41 21.00 -2.3 YKA 56.93 344 eP 41 33.40 -4.1X 0.8s 6.30nm 4.7mb INK 66.59 342 eP 42 39.00 -3.3X MBC 69.01 352 eP 42 55.00 -2.3 0.6s 7.00nm 5.0mb IMA 72.72 336 P 43 19.30 -0.8 1.0s 3.75nm 4.4mb TTA 72.97 333 P 43 19.50 -2.0 0.8s 5.17nm 4.7mb DAG 74.97 13 eP 43 31.00 -1.8 EJIF 75.28 55 e(P) 43 43.30 8.0X MAL 76.12 55 iP 43 40.00 0.0 GUD 76.21 51 e(P) 43 41.00 0.3 AFC 76.80 54 e(P) 43 42.00 -2.1 LPF 78.27 43 eP 43 52.10 0.4 GRR 78.38 43 eP 43 52.80 0.5 0.7s 6.60nm 4.8mb FLN 78.62 42 eP 43 54.00 0.4 0.8s 9.40nm 4.9mb KIC 78.71 85 (P) 43 57.50 2.7 LDF 78.86 42 eP 43 55.50 0.5 0.7s 6.60nm 4.8mb MFF 78.93 44 eP 43 55.80 0.4 0.8s 8.05nm 4.8mb EPF 79.47 48 eP 43 59.20 0.7 0.8s 8.05nm 4.8mb LFF 79.64 46 eP 43 59.80 0.5 0.5s 5.10nm 4.8mb LPO 79.97 46 eP 44 01.50 0.4 0.7s 6.60nm 4.7mb LSF 80.11 45 eP 43 49.50 -12.3X 0.6s 6.30nm 4.8mb RJF 80.16 46 eP 44 02.50 0.4 TCF 80.57 45 eP 44 04.40 0.1 0.5s 3.30nm 4.6mb MAF 80.83 45 eP 44 05.90 0.3 0.6s 3.15nm 4.5mb BGF 80.99 44 eP 44 06.50 0.0 0.6s 5.85nm 4.8mb AVF 81.32 44 eP 44 07.90 -0.2 0.7s 3.30nm 4.5mb SSF 81.40 44 eP 44 08.40 -0.2 0.6s 3.60nm 4.6mb					S.D. = 1.3 on 114 of 130 obs.					? JUN 08, 1990 01h 04m 40.28±5.67s 31.251 S ± 22.4km 68.303 W ± 38.2km DEPTH = 100.4 ± 50.4 km SAN JUAN PROVINCE, ARGENTINA (137)					RTLL 0.16 241 iPc 04 54.60 -0.3 CFA 0.36 171 iPd 04 55.80 0.3 eS 05 07.90 0.0 ZON 0.44 227 eP 04 56.00 0.0 eS 05 07.00 0.0 RTCB 0.49 241 iPd 04 56.60 0.3 RTCv 0.64 198 ePc 04 57.20 -0.3 RTRS 1.47 317 iPd 05 06.50 0.0 (S) 05 21.80					S.D. = 0.4 on 6 of 6 obs.					JUN 08, 1990 01h 47m 56.05±0.59s 40.497 N ± 6.1km 30.224 E ± 4.6km DEPTH = 10.0km (geophysicist) TURKEY (366) Felt in the Kocaeli area.					HRT 0.53 308 iPg 48 06.20 -0.6 IZI 0.60 255 iPg 48 07.90 -0.2 YLV 0.65 276 iPg 48 09.20 0.1 GBZT 0.66 296 iPgd 48 09.00 -0.2 iSg 48 28.00 0.0 ISK 1.05 303 iPg 48 15.20 -0.7 KCT 1.45 261 iPg 48 21.70 -0.6 CTT 1.51 296 iPg 48 23.20 0.1 EDC 1.81 266 iPn 48 28.10 0.6 BBTK 2.05 108 ePn 48 29.00 -2.1 eSg 49 01.00 0.0 KAS 2.82 71 iPnc 48 44.20 2.1 iSg 49 24.00 0.0																																																																																																																																																																																																																																																																																																																																																													
PTCR	0.12	236	iPd	31 52.50 -0.6						ORV	44.36	318	e(P)	39 59.80 -2.6						SDI	89.53	48	P	44 40.00 -9.2X						ZST	90.25	41	eP	44 49.70 -2.6						SUF	90.46	26	eP	44 53.00 0.0						SPC	91.97	39	eP	45 01.80 1.3						WBS	141.38	251	ePKP	51 20.70 -3.2X						WRA	141.40	250	PKP	51 21.00 -2.9X						0.8s	3.60nm				MTN	145.13	262	ePKP	51 32.20 1.8						0.9s	155.00nm				HYB	148.05	32	ePKP	51 36.50 1.3						GBA	150.49	38	PKPc	51 40.20 1.3						1.0s	4.50nm																																																																																																																																																																																																																																																																																	
HDC2	0.26	49	iPc	31 55.00 -0.5						SES	46.05	336	eP	40 16.00 0.3						FFC	46.90	346	eP	40 22.00 -0.3						SCH	46.96	14	eP	40 21.00 -1.8						FRB	54.97	8	eP	41 21.00 -2.3						YKA	56.93	344	eP	41 33.40 -4.1X						0.8s	6.30nm			4.7mb	INK	66.59	342	eP	42 39.00 -3.3X						MBC	69.01	352	eP	42 55.00 -2.3						0.6s	7.00nm			5.0mb	IMA	72.72	336	P	43 19.30 -0.8						1.0s	3.75nm			4.4mb	TTA	72.97	333	P	43 19.50 -2.0						0.8s	5.17nm			4.7mb	DAG	74.97	13	eP	43 31.00 -1.8						EJIF	75.28	55	e(P)	43 43.30 8.0X						MAL	76.12	55	iP	43 40.00 0.0						GUD	76.21	51	e(P)	43 41.00 0.3						AFC	76.80	54	e(P)	43 42.00 -2.1						LPF	78.27	43	eP	43 52.10 0.4						GRR	78.38	43	eP	43 52.80 0.5						0.7s	6.60nm			4.8mb	FLN	78.62	42	eP	43 54.00 0.4						0.8s	9.40nm			4.9mb	KIC	78.71	85	(P)	43 57.50 2.7						LDF	78.86	42	eP	43 55.50 0.5						0.7s	6.60nm			4.8mb	MFF	78.93	44	eP	43 55.80 0.4						0.8s	8.05nm			4.8mb	EPF	79.47	48	eP	43 59.20 0.7						0.8s	8.05nm			4.8mb	LFF	79.64	46	eP	43 59.80 0.5						0.5s	5.10nm			4.8mb	LPO	79.97	46	eP	44 01.50 0.4						0.7s	6.60nm			4.7mb	LSF	80.11	45	eP	43 49.50 -12.3X						0.6s	6.30nm			4.8mb	RJF	80.16	46	eP	44 02.50 0.4						TCF	80.57	45	eP	44 04.40 0.1						0.5s	3.30nm			4.6mb	MAF	80.83	45	eP	44 05.90 0.3						0.6s	3.15nm			4.5mb	BGF	80.99	44	eP	44 06.50 0.0						0.6s	5.85nm			4.8mb	AVF	81.32	44	eP	44 07.90 -0.2						0.7s	3.30nm			4.5mb	SSF	81.40	44	eP	44 08.40 -0.2						0.6s	3.60nm			4.6mb

08d 01h

Table with columns for station ID, time, and coordinates. Includes stations like EZM, IZM, CIN, KDZ, DIM, TLB, CFR, MMB, VTS, VAY, MLR, VRI, CMP, SKO.

S.D. = 0.9 on 22 of 24 obs.

JUN 08, 1990 02h 22m 56.77± 0.63s
23.813 N ± 7.6km 123.630 E ± 8.2km
DEPTH = 33.0km (normal)
4.5mb (10 obs.)

SOUTHWESTERN RYUKYU ISLANDS (246)

Table listing stations in the Southwestern Ryukyu Islands, including TWC, TWD, TWF1, TWZ, TWG, QZH, SSE, NJ2, WHN, GYA, XAN, TIY, BJI, GD2, KKM, HHC, CN2, BTO, LZH, CHG, CHTO, GTA, W65, WRA, SOD, SUF, INK, MBC, NUR, HFS, NAO, YKA, SKO, CLL.

Table with columns for station ID, time, and coordinates. Includes stations KHC, VOY, FRB.

S.D. = 1.4 on 31 of 37 obs.

* JUN 08, 1990 03h 17m 02.07± 1.34s
17.529 N ± 16.7km 40.972 E ± 14.0km
DEPTH = 10.0km (geophysicist)
4.5mb (6 obs.) 4.4Msz (1 obs.)
RED SEA (554)

Table listing stations in the Red Sea, including ABHA, TAIF, AFIF, TAB, BBTK, MAIO, BCAO, QUE, SRO, SPC, ZST, KHC, BRG, CLL, GKN, NUR, SUF, HFS, NAO, LZH.

S.D. = 1.4 on 12 of 20 obs.

JUN 08, 1990 03h 42m 01.91± 0.36s
27.962 S ± 4.7km 66.578 W ± 9.4km
DEPTH = 179.0km (3 depth phases)
4.6mb (14 obs.)

CATAMARCA PROVINCE, ARGENTINA (130)

Table listing stations in Catamarca Province, Argentina, including RTRS, RTLL, CFA, RTCB, ZON, RTCV, MDZ, ANT, JACH, FCH, ROCH, SAN, PCH, IHA, TACH, CHCH, LCCH, LNV, CCH, LPB, ZOBO, ARE.

Table with columns for station ID, time, and coordinates. Includes stations SIV, NNA.

Table listing stations in Botswana Republic, including BAO, ITR, SPA, JSC, TKL, GBTN, RSCP, PWLA, OLY, KIC, TUL, FVM, LKO, WVLY, WNY, RSNY, ALO, ANMO, CBM, GLA, GLD, GOL, BAR, PLM, MAW, MSU, GSC, RSSD, DAU, DUG, BW06, PTI, HPI, LRM, MIN, BUL, SES, KRI, FFC, DPW, LON, BMW, EDM, GMW, YKA, WRA, WB5, GBA.

S.D. = 1.4 on 67 of 72 obs.

% JUN 08, 1990 04h 28m 09.92± 1.05s
24.960 S ± 13.6km 25.936 E ± 8.0km
DEPTH = 10.0km (geophysicist)
BOTSWANA REPUBLIC (579)
ML 3.3 (PRE).

Table listing stations in Botswana Republic, including KSR, BPI, SLR, SWZ, PRY.

SEK 3.68 156 eP 29 04.50 -3.7X
 BFT 3.79 102 eP 29 11.00 1.2
 0.5s 73.94nm
 S 29 40.50
 FRS 4.80 186 eP 29 33.50 9.5X
 S 30 27.50
 WIN 8.44 285 eP 30 15.00 -0.3
 S.D. = 0.9 on 7 of 9 obs.

* JUN 08, 1990 04h 40m 00.44 ± 0.76s
 44.561 N ± 6.3km 7.266 E ± 8.6km
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)
 ML 2.2 (GEN).

PZZ 0.13 245 P 40 04.32 0.6
 S 40 06.27
 STV 0.32 172 P 40 07.60 0.5
 S 40 12.01
 ENR 0.35 162 P 40 06.48 -1.3
 S 40 10.37
 RRL 0.50 316 P 40 10.17 -0.4
 S 40 16.83
 ROB 0.51 121 P 40 11.30 0.5
 S 40 18.17
 RSP 0.59 359 P 40 12.53 0.1
 S 40 20.73
 S.D. = 0.9 on 6 of 6 obs.

JUN 08, 1990 06h 53m 29.21 ± 0.64s
 44.929 N ± 6.0km 9.012 E ± 5.1km
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)
 ML 2.3 (GEN).

BOB 0.35 117 Pc 53 35.60 -0.9
 eSg 53 40.90
 PCP 0.51 221 P 53 39.53 0.0
 S 53 47.53
 CKI 0.73 226 P 53 50.10 6.6X
 FIN 0.92 219 P 53 48.24 1.4
 S 53 59.63
 MDI 0.98 30 P 53 49.20 1.4
 eSg 54 00.10
 ORO 1.01 314 P 53 52.00 3.6X
 ORX 1.01 314 P 53 47.32 -1.1
 S 54 01.06
 ROB 1.03 233 P 53 49.27 0.5
 S 54 03.63
 RSP 1.26 281 P 53 52.14 -0.6
 S 54 08.85
 IMI 1.30 219 P 53 52.24 -1.1
 S 54 09.26
 ENR 1.34 239 P 53 54.29 0.4
 S 54 11.01
 STV 1.39 241 P 53 54.91 0.3
 S 54 12.24
 BDI 1.43 127 P 53 55.00 -0.2
 S.D. = 1.0 on 11 of 13 obs.

? JUN 08, 1990 07h 11m 03.82 ± 2.95s
 50.600 N ± 18.1km 16.276 E ± 32.3km
 DEPTH = 10.0km (geophysicist)

POLAND (548)
 ML 2.7 (KRA).

KSP 0.24 3 iPd 11 09.00 0.0
 0.6s 40.00nm
 iS 11 18.50
 ILR 11 26.00
 PRU 1.27 242 ePn 11 27.50 0.1
 Pg 11 28.80
 Sn 11 46.50
 Sg 11 54.50
 KHC 2.28 231 Pn 11 43.00 0.9
 Pg 11 48.70
 Sn 12 11.00
 eSg 12 23.50
 KRA 2.41 102 eP 11 51.00 7.1X
 iS 12 31.10
 WET 2.64 238 ePn 11 46.00 -1.1
 MOX 2.97 273 ePg 11 52.00 0.2
 eSg 12 32.00
 S.D. = 1.0 on 5 of 6 obs.

* JUN 08, 1990 07h 21m 42.72 ± 1.62s
 45.933 N ± 10.6km 26.820 E ± 11.5km

DEPTH = 114.3 ± 17.7 km
 ROMANIA (358)

VR1 0.09 226 iPc 21 58.00 0.0
 ISR 0.82 194 iPc 22 02.50 -0.4
 PTT 1.05 343 eP 22 05.00 0.0
 CFR 1.20 128 iPc 22 07.00 0.4
 IAS 1.36 22 iPd 22 42.00 33.5X
 TLB 1.59 147 iPc 22 11.00 -0.3
 PSN 2.45 156 iPd 22 30.00 7.8X
 Sg 22 50.00
 PVL 2.92 202 iPd 22 30.00 1.6
 Sg 23 02.00
 JMB 3.47 183 eP 22 35.00 -0.9
 PGB 3.88 210 iPc 22 41.00 -0.5
 S 23 22.00
 VTS 4.23 219 iP 22 46.00 -0.3
 iS 23 29.00
 KDZ 4.40 194 iPc 22 49.00 0.5
 iS 23 34.00
 RZN 4.51 200 iPc 22 50.00 -0.2
 Sg 23 36.00
 MMB 4.89 208 iPc 22 55.00 -0.2
 eS 23 48.00
 VAY 5.55 215 ePn 23 04.40 0.2
 S.D. = 0.7 on 13 of 15 obs.

? JUN 08, 1990 07h 50m 29.46 ± 2.73s
 7.503 S ± 16.4km 128.247 E ± 16.6km
 DEPTH = 163.2 ± 32.8 km
 4.4mb (1 obs.)

BANDA SEA (280)

MTN 6.02 152 eP 51 58.00 0.6
 eS 53 01.00
 KNA 8.21 176 eP 52 26.80 0.1
 0.2s 31.00nm 5.5mb X
 eS 53 53.00
 WB5 13.66 155 eP 53 36.10 -1.6
 iS 56 00.30
 WRA 13.71 155 Pd 53 37.50 -0.8
 0.3s 5.50nm 4.4mb
 MBL 15.83 210 eP 54 05.30 0.6
 QIS 17.01 141 eP 54 20.00 0.8
 eS 57 21.00
 WARB 18.64 185 eP 54 39.00 1.6
 NANU 19.34 218 eP 54 43.30 -1.3
 GUN 53.99 313 P 59 39.50 0.1
 PKI 54.15 312 P 59 40.40 -0.1
 GKN 54.95 312 P 59 46.20 0.1
 S.D. = 1.1 on 11 of 11 obs.

JUN 08, 1990 08h 16m 51.24 ± 1.00s
 33.184 S ± 8.7km 73.273 W ± 9.0km
 DEPTH = 10.0km (geophysicist)

4.6mb (2 obs.)
 OFF COAST OF CENTRAL CHILE (134)

IHA 1.38 84 eP 17 15.50 -1.0
 i(S) 17 31.50
 LCCH 1.46 102 iPc 17 17.00 -0.6
 iS 17 33.00
 LNV 1.73 117 iPc 17 21.70 0.1
 iS 17 42.00
 ROCH 1.91 84 iPd 17 24.00 -0.4
 iS 17 45.00
 TACH 2.01 104 iPc 17 25.00 -0.6
 iS 17 48.00
 SAN 2.20 98 iPc 17 28.60 0.2
 iS 17 53.00
 JACH 2.31 78 iPd 17 29.00 -1.0
 iS 17 54.50
 CHCH 2.31 110 iP 17 30.50 0.5
 iS 17 56.50
 PCH 2.35 101 iPc 17 31.00 0.4
 i 17 58.00
 FCH 2.50 94 iPc 17 33.00 0.0
 iS 18 01.50
 MDZ 3.73 87 e(P) 17 56.10 5.9X
 RTCB 4.15 67 eP 17 57.20 1.1
 S 18 45.00
 RTCV 4.21 73 ePc 17 58.30 1.3
 (S) 18 46.20
 ZON 4.22 68 eP 18 01.00 3.9X
 RTRS 4.43 48 ePd 18 00.30 0.4
 eS 18 51.00
 RTLL 4.47 67 eP 18 00.70 0.1

eS 18 51.50
 CCH 16.99 24 P 20 54.90 4.0X
 LPB 17.23 17 P 20 52.00 -2.0
 ZOBO 17.47 17 P 20 59.00 1.8
 SIV 20.37 36 P 21 30.00 -0.8
 LKO 77.04 69 (P) 28 46.22 -0.2
 0.8s 10.00nm 5.0mb
 BW06 82.58 334 e(P) 29 15.90 0.0
 1.0s 1.75nm 4.2mb
 GBA 146.98 119 PKPd 36 34.60 0.5
 0.6s 2.10nm
 S.D. = 0.9 on 20 of 23 obs.

* JUN 08, 1990 08h 24m 21.07 ± 1.59s
 51.253 N ± 16.1km 15.655 E ± 7.5km
 DEPTH = 5.0km (geophysicist)

POLAND (548)
 ML 3.6 (VKA), 2.8 (KRA).

KSP 0.58 135 iP 24 30.50 -2.1
 iS 24 39.50
 ILR 24 45.50
 BRG 1.14 251 ePn 24 43.60 0.7
 iPg 24 44.60
 ISg 25 03.80
 PRU 1.45 210 Pn 24 48.10 0.1
 Pg 24 50.20
 Sn 25 07.30
 Sg 25 12.80
 CLL 1.67 273 iPn 24 49.50 -1.5
 iPg 24 52.90
 iSg 25 17.90
 KHC 2.51 213 Pn 25 03.50 0.3
 Pg 25 09.00
 Sg 25 50.00
 HOF 2.58 250 iPnc 25 03.80 -0.3
 MOX 2.63 258 iPg 25 12.00 7.1X
 iSg 25 52.00
 WET 2.76 221 iPnc 25 07.40 0.5
 KRA 2.98 112 eP 25 11.70 1.9
 iS 25 50.60
 VKA 3.02 172 iPgd 25 18.40 7.9X
 iSg 26 02.00
 ZST 3.20 162 eP 25 38.50 25.5X
 e 26 04.00
 FVI 5.03 203 P 25 39.00 0.0
 CTI 5.85 209 P 25 51.00 0.4
 S.D. = 1.3 on 10 of 13 obs.

* JUN 08, 1990 08h 42m 28.88 ± 1.28s
 35.077 N ± 15.6km 33.850 E ± 12.9km
 DEPTH = 33.0km (normol)

CYPRUS (372)
 ML 3.4 (CSS).

FAM 0.15 123 ePg 42 35.00 0.0
 eSg 42 38.00
 LFK 0.33 308 iPg 42 37.40 0.3
 CSS 0.44 255 eP 42 37.80 -0.8
 eSg 42 46.00
 PPCY 1.25 262 eP 42 51.00 0.9
 BCK 3.55 313 ePn 43 22.70 -0.4
 S.D. = 0.9 on 5 of 5 obs.

? JUN 08, 1990 09h 15m 48.97 ± 2.15s
 6.106 S ± 12.1km 148.513 E ± 24.4km
 DEPTH = 87.7 ± 16.7 km
 4.7mb (2 obs.)

NEW BRITAIN REGION (192)

LAT 1.60 250 eP 16 17.00 0.7
 KDB 3.60 202 eP 16 43.00 -0.6
 eS 17 28.00
 MNDI 4.83 269 eP 17 08.00 7.1X
 QIS 16.77 210 eP 19 39.00 -0.8
 WB5 19.40 224 eP 20 09.80 -1.1
 WRA 19.46 224 Pd 20 11.40 -0.1
 0.6s 22.90nm 4.7mb
 GUMO 19.90 350 eP 20 33.00 16.9X
 OLP 20.77 191 eP 20 26.50 1.6
 WARB 28.89 224 eP 21 24.50 -17.2X
 NANU 35.77 239 eP 22 42.40 0.8
 MAT 43.51 348 eP 23 45.00 -0.4
 0.7s 9.59nm 4.7mb
 INK 91.20 21 eP 28 45.00 -0.1
 BAO 152.91 143 e(PK) 35 38.00 7.0X
 S.D. = 1.1 on 9 of 13 obs.

JUN 08, 1990 09h 59m 22.24 ± 0.31s
55.354 N ± 4.4km 156.355 W ± 3.9km
DEPTH = 33.0km (normal)
4.8mb (28 obs.)
SOUTH OF ALASKA (17)
ML 4.4 (PMR).

Table with columns for station ID, time, depth, and magnitude. Includes stations like SDN, KDC, CDD, MCNL, AUE, CNPM, NNL, RED, RDT, SVW, SEW, SLKM, SPU, CRP, CGLM, NCG, MID, SUA, PMS, SKT, PWA, PLRM, PMR, GLI, GH0, TTA, VZW, VLZ, KLU, NCA, TOA, TGL, BALM, PAX, PCA, DDM, ANM, FBA, IMA, INK, YKA, PNT, NEW, MBC, SES, KVN, TNP, BW06, DAU, MSU, RSSD, PLM, GLA, GOL, FRB, NIIJ, KAKJ, MDJ, CHJJ, MAT, MTMJ, IIDJ, TSRJ, CN2, PWLA, RSCP, GBTN, SNY, KEV.

Table with columns for station ID, time, depth, and magnitude. Includes stations like SOD, HHC, SUF, NAO, NUR, UPP, WHN, XAN, GTA, LZH, WMO, EKA, CD2, GYA, BRG, MOX, KHC, LOR, MFF, SSF, LBF, AVF, BGF, SMF, LSF, TCF, MAF, LFF, CAF, LPO, GUN, GKN, PKI, DMN, MAIO, WRA, BUL, SWZ, SEK.

JUN 08, 1990 10h 35m 13.50 ± 0.59s
39.384 N ± 4.8km 16.125 E ± 9.9km
DEPTH = 11.3 ± 7.5 km
SOUTHERN ITALY (390)

Table with columns for station ID, time, depth, and magnitude. Includes stations like CZI, TDS, CSI, ORI, MGR, MSI, SOI, ATN, SGO, BSS, GIB.

* JUN 08, 1990 11h 01m 10.90 ± 2.40s
16.847 N ± 21.3km 98.522 W ± 11.9km
DEPTH = 59.5 ± 12.2 km
4.4mb (4 obs.)
NEAR COAST OF GUERRERO, MEXICO (58)
Felt at Oaxaca.

Table with columns for station ID, time, depth, and magnitude. Includes stations like OXX, III, IIT, PPM, UNM, CRX, IIC, IIJ, PSM, LVVM, MRX, SCX, AGX, UYO, TUL, LNO, ALO, KVN, LRM, PNT, FFC, SCH, FRB, INK, MBC.

& JUN 08, 1990 11h 26m 15.66s
65.897 N 150.512 W
DEPTH = 25.0km (geophysicist)
ALASKA (676)
<AGS-P>

Table with columns for station ID, time, depth, and magnitude. Includes stations like IMA, NEA, FBA, GLM, CCB, WRH, MCK, KTH.

JUN 08, 1990 11h 35m 49.84 ± 1.60s
15.031 N ± 4.0km 60.377 W ± 17.4km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 3.2 (FDF). MD 3.5 (TRN).

Table with columns for station ID, time, depth, and magnitude. Includes stations like CRM, MYM, FDF, BIM, DPMT, SLW, BBL.

S 36 22.20
MGG 1.26 314 ePd 36 11.21 -0.1
S 36 24.40
SFG 1.45 327 eP 36 14.00 0.0
PAG 1.60 308 eP 36 16.05 -0.2
S 36 34.00
SEG 1.74 322 eP 36 18.82 0.6
SVB 1.94 206 eP 36 21.11 -0.1
eS 36 43.21
MGH 2.44 314 eP 36 23.60 -4.7X
BPA 2.46 325 eP 36 28.20 -0.3
S.D. = 0.3 on 12 of 14 obs.

* JUN 08, 1990 12h 54m 47.71 ± 0.72s
37.420 N ± 6.7km 3.802 W ± 6.5km
DEPTH = 10.0km (geophysicist)

SPAIN (377)
mbLg 2.8 (MDD).

AFC 0.26 129 iPgc 54 52.80 -0.6
eSg 54 57.00
EBAN 0.74 1 IPgc 55 02.30 0.0
eSg 55 13.00
MAL 0.85 215 IPn 55 05.00 1.0
ISg 55 13.60
EHOR 1.21 290 ePg 55 10.00 -0.3
eSg 55 24.80
EPRU 1.23 249 ePg 55 10.00 -0.6
EVIA 1.59 40 ePn 55 16.50 0.5
eSn 55 37.50
S.D. = 0.8 on 6 of 6 obs.

* JUN 08, 1990 13h 03m 34.05s
65.934 N 150.533 W
DEPTH = 20.1km

ALASKA (676)
<AGS-P>.

IMA 1.29 277 iPc 03 57.40 0.3
NEA 1.49 155 eP 03 59.42 -0.5
eS 04 19.67
FBA 1.55 131 eP 04 01.40 0.8
GLM 1.62 124 eP 04 01.43 -0.3
eS 04 23.29
CCB 1.73 137 eP 04 02.69 -0.6
WRH 1.79 144 eP 04 04.12 -0.1
MCK 2.31 162 eP 04 11.12 -0.6
KTH 2.40 184 eP 04 11.98 -1.0
TTA 3.84 221 eP 04 33.20 -0.2
TOA 4.30 151 eP 04 39.20 -0.7
PMR 4.40 171 eP 04 42.50 1.2
SVW 5.35 208 eP 04 52.00 -2.8
INK 7.04 63 eP 05 17.00 -1.4
13 obs. associated

? JUN 08, 1990 13h 16m 58.73 ± 16.79s
42.796 N ± 80.1km 128.749 W ± 108.km
DEPTH = 10.0km (geophysicist)

OFF COAST OF OREGON (30)
CL 2.9 (SEA).

GT2 5.24 61 P 18 19.10 0.1
PGO 5.26 57 P 18 20.67 1.4X
BMW 5.39 45 P 18 20.51 -0.7
RVW 5.45 50 P 18 21.72 -0.3
LVP 5.60 52 P 18 24.01 -0.1
TDH 5.60 61 P 18 24.24 0.0
MTMW 5.69 53 P 18 25.14 -0.3
VLL 5.74 60 P 18 26.83 0.6
CZM 5.75 49 P 18 25.84 -0.4
ERK 5.77 50 P 18 26.66 0.1
CPW 5.77 42 P 18 27.33 0.8
APW 5.81 46 P 18 26.53 -0.5
ESD 5.82 52 P 18 27.57 0.3
VFP 5.82 62 P 18 27.75 0.4
CDFW 5.83 53 P 18 27.11 -0.3
KOSW 5.94 50 P 18 28.96 0.0
GULW 6.01 56 P 18 29.97 0.1
LMW 6.01 48 P 18 29.97 0.0
ASR 6.12 54 P 18 31.37 -0.1
V1PM 6.14 71 P 18 31.54 -0.3
GLK 6.33 51 P 18 34.84 0.3
RVC 6.35 47 P 18 35.08 0.3
WPW 6.44 50 P 18 36.36 0.3
GL2 6.50 58 P 18 36.44 -0.4
FMW 6.51 48 P 18 36.95 -0.1
HTW 7.02 42 P 18 44.12 0.0

RPW 7.59 39 P 18 52.00 -0.1
S.D. = 0.4 on 26 of 27 obs.

* JUN 08, 1990 13h 45m 46.56 ± 1.22s
17.888 S ± 18.1km 71.737 W ± 15.7km
DEPTH = 33.0km (normal)

NEAR COAST OF PERU (115)

ARE 1.44 9 iPd 46 11.00 0.2
i(S) 46 27.20
LPB 3.73 69 P 46 37.00 -6.6X
ZOBO 3.81 66 iPc 46 52.00 7.1X
CCH 5.36 85 P 47 13.80 7.2X
PT03 5.50 314 eP 47 41.80 33.4X
PT03 5.50 314 iPc 47 03.30 -5.1X
PT06 5.98 312 iP 46 12.50 -62.7X
e(S) 47 27.10
PT02 6.69 317 eP 47 28.40 3.3X
PT08 7.51 321 eP 47 36.50 -0.4
eS 48 52.90
NNA 7.66 319 iP 47 44.30 5.5X
0.5s 11.97nm 5.2mb X
iS 48 15.50
PT10 7.68 318 eP 47 53.50 14.5X
eS 49 25.00
SIV 10.38 81 P 48 19.60 3.3X
BW06 69.68 331 e(P) 56 54.90 -0.3
KIC 70.35 76 (P) 56 59.60 0.0
LKO 70.76 73 (P) 57 01.82 -0.3
KVN 71.33 323 eP 57 06.20 0.9
BBTK 112.23 54 ePKP 04 08.00 -12.9X
MAT 147.72 311 ePKP 05 38.00 11.1X
0.9s 5.88nm
S.D. = 0.6 on 6 of 18 obs.

JUN 08, 1990 13h 49m 22.93 ± 0.17s
17.573 S ± 3.7km 71.824 W ± 3.9km
DEPTH = 26.8km (15 depth phases)
5.6mb (65 obs.) 5.4Msz (15 obs.)

NEAR COAST OF PERU (115)

Felt (IV) at Arequipo.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 32C
Centroid Location:
Origin Time 13:49:30.3 0.3
Lat 18.33S 0.04 Lon 71.67W 0.05
Dep 15.0 FIX Half-duration 3.0
Moment Tensor: Scale 10**17 Nm
Mrr=-1.94 0.10 Mtt=-1.43 0.09
Mff=-0.51 0.14 Mrt= 0.40 0.28
Mrf=-1.30 0.29 Mtf= 2.84 0.10
Principal Axes:
T Val= 2.76 Plg=49 Azm=119
N 1.31 39 321
P -4.07 11 222
Best Double Couple: Mo=3.4*10**17
NP1: Strike=274 Dip=48 Slip= 32
NP2: 161 66 133

ARE 1.15 16 iPd 49 46.20 2.6
LPB 3.71 74 iPc 50 22.00 1.7
ZOBO 3.77 70 iPc 50 27.90 6.6X
PT03 5.23 312 IP 50 39.70 -1.7
CCH 5.43 89 P 50 47.60 3.1X
PT06 5.72 310 iP 50 46.60 -1.7
e(S) 51 58.80
ANT 6.24 168 iPd 50 50.70 -5.0X
iS 51 52.50
PT02 6.40 315 IP 50 59.40 1.4
eS 52 10.70
PT08 7.21 320 iPd 51 09.50 -0.2
eS 52 24.30
NNA 7.37 318 eP 51 11.40 -0.3
0.7s 212.33nm 6.3mb
i 51 13.50
eS 52 45.00
PT10 7.39 317 e(P) 51 12.50 0.7
i 51 22.50
eS 52 57.00
SIV 10.42 83 P 51 52.00 -1.2
RTRS 12.72 171 ePd 52 20.20 -4.7X
RTLl 14.03 168 e(P) 52 38.00 -4.2X
ZON 14.20 169 e(P) 52 46.00 1.5
CFA 14.35 168 e(P) 52 41.30 -5.0X
e 52 45.50
JACH 15.09 176 eP 52 55.00 -1.1

ROCH 15.35 177 eP 53 03.50 3.8X
MDZ 15.48 171 IP 52 59.30 -1.9
PEL 15.54 176 IPd 53 00.10 -1.8
1.0s 65.00nm 4.8mb
FCH 15.75 175 IPd 53 04.00 -0.9
e 57 08.00
PSO 19.42 343 eP 53 52.00 1.3
LPA 21.25 147 ePd+ 54 08.00 -1.2
0.9s 1075.63nm 6.3mb
Z 20s 18.44um 5.5Msz
IS 57 58.80
BOG 22.16 354 eP 54 21.00 2.0
eS 58 28.00
BAO 22.92 89 eP 54 24.50 -1.6
BMG 24.52 357 IPd 54 39.00 -2.7X
SDV 26.32 3 eP 54 58.10 -0.6
TOV 27.26 4 eP 55 06.00 -1.2
UPA 27.46 343 eP 55 11.80 2.9X
LLAV 28.31 10 iP 55 15.50 -1.2
CAR 28.32 10 eP 55 04.00 -12.8X
TPP 29.55 21 eP 55 29.58 1.9
TRN 29.87 21 eP 55 30.00 -0.6
SVB 32.38 19 eP 55 50.44 -2.2
SLB 32.96 20 eP 55 55.30 -2.5
SLW 33.18 20 eP 55 57.41 -2.2
ITR 33.63 79 eP 56 05.80 2.1
e 56 08.30 9kmX
e 56 12.30
e 56 26.50
CAI 35.58 76 IPd 56 19.00 -1.4
PORP 35.77 8 P 56 20.00 -1.9
CFD 35.86 10 P 56 20.00 -2.7X
AIA 47.91 176 eP 58 10.50 10.0X
PRM 52.34 349 P 58 33.60 -1.1
TKL 54.14 348 P 58 45.40 -2.6
GBTN 54.23 348 P 58 46.50 -2.2
RSCP 54.46 346 P 58 48.00 -2.4
Z 20s 2.82um 5.3Msz
PWL 54.49 344 P 58 47.50 -3.1X
BLA 55.09 352 P 58 54.00 -1.0
1.5s 118.42nm 5.7mb
NAV 55.24 351 P 58 54.70 -1.4
UYO 55.79 337 eP 58 58.80 -1.2
OLY 55.98 341 P 58 58.40 -3.0X
TUL 57.83 337 IPd 59 13.40 -1.1
1.2s 195.40nm 6.0mb
Z 22s 2.99um 5.4Msz
LR 21 00.00
LNO 57.83 337 IP 59 13.50 -0.9
MED 57.95 334 eP 59 14.30 -1.1
FVM 57.96 343 P 59 12.80 -2.6
1.0s 135.00nm 5.9mb
pP 59 20.50 25km
GMTN 58.19 358 eP 59 14.90 -2.0
PNJ 58.22 358 IP 59 12.30 -4.8X
TXNY 58.49 358 IP 59 19.30 0.3
ALD 61.72 328 eP 59 40.80 -0.8
1.3s 40.87nm 5.4mb
Z 19s 2.73um 5.4Msz
e 59 48.50 25km
ANMO 61.73 328 P 59 40.90 -0.7
1.6s 38.33nm 5.3mb
Z 20s 2.13um 5.3Msz
pP 59 48.80 26km
RSNY 61.87 358 P 59 42.50 0.4
1.0s 23.86nm 5.3mb
Z 22s 2.65um 5.4Msz
CBM 64.29 3 P 59 57.50 -0.5
pP 00 06.50 29km
GLA 64.98 321 eP 00 04.00 1.2
GLD 64.98 332 P 00 03.50 0.6
1.2s 60.61nm 5.6mb
GOL 65.01 332 P 00 02.40 -0.8
1.2s 38.93nm 5.4mb
Z 20s 1.50um 5.2Msz
pP 00 10.00 24km
PV09 65.84 329 P 00 08.00 -0.6
BAR 65.85 319 eP 00 09.00 0.6
PLM 66.42 320 eP 00 13.00 0.7
PEC 66.97 320 P 00 16.30 0.7
RVR 67.17 320 eP 00 17.00 0.2
MSU 67.40 327 P 00 18.60 0.1
GSC 67.71 321 eP 00 21.00 0.7
MWC 67.74 320 eP 00 21.00 0.3
PAS 67.76 320 eP 00 22.00 1.4
SBB 67.91 320 eP 00 21.00 -0.6
RSSD 68.09 336 P 00 22.10 -0.6

08d 14h

DAU	68.36	329 P	00 24.50	0.0	ENIJ	85.04	49 iPd	01 57.00	-0.6	DOU	1.0s	50.00nm	5.9mb	
CLC	68.53	321 eP	00 25.00	-0.4	GUD	85.35	45 iPd	01 59.90	0.7	DOU	94.89	39 P	02 43.70	0.0
ABL	68.88	320 P	00 28.00	0.2	EVI	85.57	47 iPd	02 00.60	0.3	S			13 22.00	
ISA	68.96	321 eP	00 28.00	0.0	ETOR	86.85	45 iPc	02 06.50	-0.1	MAU	95.22	41 eP	02 44.70	-0.6
DUG	68.98	327 P	00 28.60	0.4	ECHE	87.06	47 iPd	02 08.10	0.6	1.0s		20.00nm	5.5mb	
	1.2s	37.82nm		5.4mb	HVD	87.29	121 iPc	02 25.50	16.4X	KRI	95.44	109 iPc	02 52.00	4.8X
SYP	69.14	319 eP	00 31.00	1.8	ECRI	87.34	44 iPd	02 09.30	0.5	BSF	95.44	42 eP	02 45.40	-1.1
BW06	69.36	331 P	00 30.00	-0.6	VAL	87.40	33 iP	02 09.70	1.0	0.9s		11.45nm	5.3mb	
	1.4s	17.95nm		5.0mb	FRS	87.42	120 eP	02 19.00	9.5X	MEM	95.92	39 Pc	02 48.80	0.4
BCH	69.63	319 P	00 33.60	1.4	GDH	87.57	6 eP	02 10.00	0.8	ENN	95.93	39 eP	02 48.50	0.1
TNP	69.86	323 P	00 34.10	0.4	e			12 32.00		1.0s		35.00nm	5.0mb	
	1.2s	37.63nm		5.4mb	SWZ	88.25	118 iPd	02 01.40	-12.3X	e			02 58.00	30km
		pP	00 42.00	25km	0.4s		16.95nm			CDF	95.95	41 eP	02 47.90	-0.8
LIC	70.04	76 P	00 32.50	-2.5	EROO	88.54	46 eP	02 14.80	0.3	1.0s		22.00nm	5.5mb	
TIC	70.20	76 P	00 34.28	-1.7	EBR	88.60	46 eP	02 15.00	0.2	INK	96.34	341 eP	02 50.00	0.0
KIC	70.36	76 P	00 34.76	-2.1	eS			13 02.00		WTS	96.87	38 eP	02 53.50	0.9
	0.7s	50.00nm		5.8mb	MAW	88.85	164 iP	02 15.50	-0.2	1.0s		42.00nm	5.9mb	
FRI	70.58	321 ePd	00 37.60	-0.2	1.0s		63.00nm		5.9mb	e			03 03.00	30km
PRI	70.61	320 ePd	00 38.20	0.0	EPF	89.41	44 eP	02 18.90	0.2	WIT	97.06	37 eP	02 55.00	1.5
LKO	70.75	73 P	00 37.12	-2.2	1.1s		65.95nm		5.8mb	TNS	97.26	40 ePd	02 55.10	0.5
	0.6s	41.50nm		5.7mb	SEK	89.80	120 iPc	02 20.50	-0.6	MBC	97.89	350 eP	02 57.00	0.2
KVN	71.03	323 P	00 40.30	-0.5	1.0s		20.00nm		5.3mb	1.0s		5.00nm	5.0mb	
LLA	71.09	320 ePd	00 41.00	0.0	REY	90.02	20 iP	02 23.10	2.1	SQTA	98.09	43 iPc	02 56.50	-2.0
		epP	00 49.60	28km	0.9s		0.50nm		3.8mb X	1.1s		31.40nm	5.8mb	
PRS	71.17	320 eP	00 41.80	0.4	PRY	90.14	118 iPc	02 22.00	-0.7	i			02 59.50	9kmX
CMB	71.68	321 ePd	00 44.30	-0.2	1.0s		15.00nm		5.2mb	i			03 08.40	
HPI	71.74	330 P	00 45.10	0.0	LFF	90.47	43 eP	02 23.20	-0.3	GRF	98.81	41 eP	03 01.40	-0.1
ARN	71.92	320 P	00 47.50	1.5	0.9s		91.75nm		6.1mb	Z 19s		0.70um	5.2msz	
MHC	71.98	320 eP	00 46.90	0.5	MFF	90.61	41 eP	02 23.50	-0.6	e			03 02.80	4kmX
		epP	00 55.50	28km	0.8s		49.70nm		5.9mb	MOX	99.32	40 eP	03 03.00	-0.8
GCC	72.00	320 e(P)	00 45.80	-0.6	LPO	90.66	43 eP	02 24.00	-0.4	2.0s		49.00nm	5.7mb	
		epP	00 55.20	30km	0.9s		58.95nm		5.9mb	Z 20s		1.20um	5.4msz	
SCH	72.22	3 ePc	00 46.30	-1.0	LPF	90.67	39 iPc	02 23.50	-0.8	E 20s		1.00um		
	1.0s	72.00nm		5.7mb	1.0s		68.00nm		5.9mb	FBA	99.95	335 eP	03 05.10	-1.3
SPA	72.54	180 iPc	00 48.90	-0.5	GRR	90.93	39 iPc	02 22.48	-3.1X	1.3s		0.60nm	4.0mb X	
	1.0s	74.00nm		5.7mb	0.8s		63.15nm		6.0mb	KHC	100.14	42 Pdifd03	08 50	0.8
BKS	72.69	320 iPd	00 51.90	1.5	RJF	91.12	43 eP	02 25.90	-0.6	Z 18s		1.00um	5.4msz	
	1.4s	94.00nm		5.6mb	0.8s		25.50nm		5.6mb	N 18s		0.60um		
		i	19 03.50		SLR	91.23	117 iPc	02 27.50	-0.2	E 18s		0.50um		
		i	25 07.30		1.0s		30.00nm		5.6mb	CLL	100.35	39 iPdif03	09 50	1.0
BRK	72.70	320 e(P)	00 50.90	0.4	Z 18s		5.50um		6.0msz	1.1s		11.00nm	5.3mb	
LRM	73.04	332 eP	00 53.00	0.4	FLN	91.32	39 eP	02 26.70	-0.6	BRG	100.81	40 ePdif03	11 80	1.2
ORV	73.33	322 ePd	00 54.60	0.5	1.1s		73.25nm		6.0mb	1.3s		23.00nm	5.6mb	
		ipP	01 03.30	28km	CAF	91.33	43 iPc	02 27.10	-0.4	PRU	100.96	41 ePdif03	10 90	-0.4
MIN	73.90	323 e(P)	00 57.80	0.2	0.9s		26.20nm		5.6mb	Z 18s		1.50um	5.5msz	
WDC	74.60	322 ePd	01 00.00	-1.5	LDF	91.46	39 eP	02 27.30	-0.7	N 18s		0.80um		
		ipP	01 08.50	27km	0.8s		52.40nm		6.0mb	ZST	102.18	43 ePdif03	15 60	-1.2
SES	75.97	335 eP	01 09.00	-0.2	LSF	91.51	42 eP	02 27.50	-0.8	e			05 32.00	
	1.2s	108.00nm		5.7mb	0.9s		36.05nm		5.8mb	e			07 20.50	
		pP	01 17.00	26km	BCAO	91.66	86 iPc	02 20.00	-9.7X	e			19 35.60	
FFC	76.46	343 eP	01 11.00	-0.8	1.3s		54.00nm		5.8mb	KSP	102.25	40 ePdif03	18 50	1.5
	1.3s	40.00nm		5.3mb	i				05 08.50	KRA	104.38	42 ePdif03	28 00	1.5
VGB	76.88	327 P	01 15.30	0.9	i				06 03.00	SPC	104.42	43 ePdif03	28 20	1.2
NEW	76.99	331 P	01 15.40	0.5	iS				13 03.50	QIS	131.15	220 iPKPc	08 34.30	-0.6
	1.2s	35.04nm		5.3mb	TCF	91.96	42 eP	02 29.60	-0.8	MAIO	133.29	56 iPKPd	08 39.30	0.7
TIO	78.54	52 iP	01 24.00	0.0	0.9s		18.00nm		5.5mb	e			11 06.00	
		i	01 31.00	22km	MAF	92.16	42 iPc	02 30.80	-0.5	WRA	134.72	216 PKPc	08 40.70	-1.0
PNT	78.90	330 eP	01 26.00	0.6	1.1s		37.85nm		5.7mb	0.5s		10.20nm		
	0.7s	23.00nm		5.3mb	LBL	92.22	43 P	02 32.47	1.0	WB5	134.76	216 ePKP	08 40.80	-1.0
SBA	79.17	191 e(P)	01 25.60	-0.9	AKU	92.26	20 iP	02 34.00	2.7X	GUA	144.42	269 ePKP	08 56.80	-2.5X
GMW	79.26	328 P	01 28.20	0.8	0.9s		13.45nm		5.4mb	0.8s		101.49nm		
AVE	79.57	50 iP	01 30.50	1.2	PYM	92.26	43 P	02 32.68	0.8	GUMO	144.47	269 ePKP	08 57.40	-2.0
		i	02 23.50	220kmX	AGO	92.46	42 P	02 33.19	0.5	1.2s		250.00nm		
PGC	80.32	328 eP	01 34.00	1.0	BGF	92.47	42 iPc	02 32.00	-0.7	PJG	144.47	269 ePKP	08 57.20	-2.2
PRB	81.10	1 eP	01 35.00	-1.7	0.9s		38.50nm		5.8mb	KSH	144.58	45 PKP	08 59.00	-0.1
CER	81.45	122 iPc	01 41.00	1.5	BFT	92.73	118 iPc	02 35.50	0.8	KAKJ	146.18	310 ePKP	09 02.60	0.9
	0.4s	15.91nm		5.4mb	1.0s		35.00nm		5.7mb	NIIJ	146.57	312 ePKP	09 03.00	0.7
CNIL	82.02	48 eP	01 45.50	3.3X	PLDF	92.74	43 P	02 34.81	0.8	CHJJ	147.11	310 ePKP	09 04.90	1.7
NKM	82.05	49 iPd	01 43.50	1.2	AVF	92.88	42 eP	02 33.50	-1.1	POO	147.38	83 iPKPd	09 05.00	0.8
PLAT	82.11	48 eP	01 45.50	2.8X	1.2s		23.80nm		5.5mb	MAT	147.46	311 (PKP)	09 04.00	0.2
Eval	82.12	47 iPd	01 43.60	0.9	SSF	93.09	41 eP	02 35.10	-0.4	Z 20s		1.77um	5.8msz	
MOMI	82.23	48 eP	01 46.00	2.7X	0.7s		7.70nm		5.2mb	MDJ	147.59	331 ePKP	09 04.50	0.8
GIBL	82.31	48 eP	01 45.00	1.3	SMF	93.14	42 eP	02 35.00	-0.8	MTMJ	147.72	312 ePKP	09 07.60	3.3X
EJIF	82.47	48 iPd	01 46.00	1.4	1.1s		37.85nm		5.7mb	IIDJ	148.15	310 ePKP	09 08.10	3.1X
ALJ	82.48	48 eP	01 45.50	0.8	LOR	93.39	41 eP	02 36.40	-0.5	WMO	148.64	29 iPKPd	09 06.50	1.0
EPRU	82.89	48 iPd	01 48.60	1.9	0.8s		9.40nm		5.3mb	Z 25s		1.70um	5.7mszX	
EZAM	83.11	42 eP	01 48.00	0.3	BUL	93.42	112 iPd	02 37.00	-0.9	e			09 15.00	
EHOR	83.28	47 eP	01 49.20	0.6	1.0s		30.50nm		5.7mb	KOD	149.34	100 ePKP	09 08.80	1.1
MAL	83.36	48 iPc	01 50.00	0.9	LRG	93.64	46 eP	02 38.10	0.0	TSRJ	149.52	311 ePKP	09 12.80	5.8X
		iS	12 12.00		1.5s		125.35nm		6.1mb	NDI	149.54	63 ePKP	09 08.00	0.7
STS	83.58	41 eP	01 50.60	0.5	LMR	93.69	46 iPc	02 38.10	-0.3	1.0s		125.00nm		
EPLA	83.78	45 iPc	01 51.20	0.0	1.3s		68.60nm		5.9mb	CN2	150.06	334 PKP	09 12.00	4.4X
TAF	83.94	51 iPd	01 53.00	0.8	FRF	93.87	46 iPc	02 38.90	-0.3	Z 20s		0.90um	5.6msz	
AFC	84.21	48 eP	01 54.00	0.4	1.3s		65.00nm		5.9mb	ePP			12 50.00	
ERUA	84.22	42 eP	01 53.70	0.3	LPL	94.61	44 eP	02 43.20	0.4	GBA	150.15	93 PKPc	09 09.10	0.6
EBAN	84.46	47 iPc	01 54.90	0.2	0.9s		32.75nm		5.8mb	1.1s		38.20nm		
EMON	84.63	41 eP	01 55.60	0.2	LPG	94.61	44 iPc	02 43.30	0.4	SNY	152.46	335 PKPc	09 13.60	2.4X

GKN	155.99	60 PKP	09 16.90	0.2
DMN	156.51	61 PKP	09 18.40	0.9
BJI	156.56	344 ePKP	09 18.00	1.2
Z	22s	0.62um	5.4Msz	
HHC	156.62	354 PKPd	09 19.00	1.9
		sPKP	09 29.00	
PKI	156.78	61 PKP	09 18.40	0.4
GUN	157.04	59 PKP	09 18.90	0.6
GTA	157.06	17 PKP	09 18.80	1.1
Z	24s	2.20um	5.9MszX	
N	20s	1.30um		
		e	09 46.00	
		PP	13 24.00	
TIY	159.59	350 ePKP	09 22.20	1.7
Z	28s	1.90um	5.8MszX	
		e	09 59.60	
		SS	33 42.00	
LSA	160.31	49 PKP	09 24.10	2.0
LZH	161.16	11 PKPc	09 22.00	-0.3
		pPKP	09 31.00	
		e	10 07.00	
SSE	162.08	321 PKP	09 24.00	0.9
		pPKP	09 34.00	
PSI	162.65	147 ePKPd	09 24.80	0.6
XAN	163.59	358 PKP	09 25.80	1.1
WHN	165.92	338 ePKP	09 28.50	1.8
CD2	166.13	16 ePKP	09 28.00	1.0
KMI	170.94	33 PKPc	09 30.50	0.1
Z	18s	0.60um		
GYA	171.05	9 PKP	09 31.40	1.1
		pPKP	09 38.60	
		e	10 50.00	
		PP	14 39.80	
CHG	171.14	81 ePKP	09 20.90	-9.5X
CHTO	171.14	81 ePKP	09 30.90	0.5
		1.1s	14.72nm	
BDT	171.24	91 ePKP	09 30.50	0.1
		S.D. = 1.1	on 221 of 253 obs.	

• JUN 08, 1990 13h 58m 44.01± 1.77s				
8.091 N ±20.8km 71.175 W ±11.5km				
DEPTH = 5.0km (geophysicist)				
4.4mb (2 obs.)				
VENEZUELA (101)				
Felt at Merida and Barinas.				
SDV	0.95	34 iPgd	59 01.10	-1.7
TOV	2.17	39 iPnc	59 22.40	1.0
		iSn	59 47.10	
GUAC	4.38	61 iP	59 53.60	0.6
OLLA	4.72	66 iP	59 58.30	0.6
		iS	00 52.20	
CAR	4.83	60 iP	00 00.50	1.2
LLAV	4.92	61 iP	00 01.40	0.9
		iS	00 56.50	
GUAN	5.77	71 iP	00 12.30	-0.2
		iS	01 16.70	
TCE	9.65	74 eP	01 05.92	-0.7
TRN	9.97	74 eP	01 09.33	-1.7
BW06	48.23	322 eP	07 28.00	-0.1
	0.9s	4.03nm	4.5mb	
NAO	79.09	30 P	10 50.90	0.1
	0.6s	2.00nm	4.3mb	
WRA	152.63	242 PKP	18 47.00	10.1X
	0.4s	0.60nm		
		S.D. = 1.1	on 11 of 12 obs.	

• JUN 08, 1990 14h 51m 48.73± 1.05s				
32.219 S ±11.2km 70.130 W ±11.0km				
DEPTH = 31.8 ± 9.1 km				
CHILE-ARGENTINA BORDER REGION (127)				
JACH	0.60	220 iPd	52 03.70	2.7
		iS	52 16.30	
PEL	1.03	207 iPc	52 07.40	0.3
		iS	52 24.00	
ROCH	1.06	224 iP	52 00.00	0.4
		iS	52 24.50	
FCH	1.11	187 iPd	52 09.30	0.8
		iS	52 26.70	
MDZ	1.27	122 i(P)	52 11.30	0.9
SAN	1.31	200 eP	52 11.00	0.0
		iS	52 29.50	
RTCV	1.40	76 e(P)	52 12.00	-0.3
PCH	1.43	193 iP	52 12.50	-0.3
		iS	52 32.40	

TACH	1.58	205 iP	52 13.90	-1.0
		iS	52 35.00	
RTLL	1.67	58 iPd	52 15.80	-0.4
CFA	1.72	70 iPc	52 16.00	-0.9
		eS	52 39.80	
LCCH	1.74	224 iPd	52 15.90	-1.3
		iS	52 39.00	
LNv	2.04	211 iPc	52 18.60	-2.9
		iS	52 43.50	
RTRS	2.12	16 iPc	52 23.20	0.6
		eS	52 50.00	
ZOBO	15.98	7 P	55 44.00	10.5X
		S.D. = 1.5	on 14 of 15 obs.	

JUN 08, 1990 15h 05m 09.52± 0.12s				
18.874 S ± 3.3km 178.789 W ± 3.3km				
DEPTH = 499.2km (25 depth phases)				
5.6mb (66 obs.)				
FIJI ISLANDS REGION (181)				
mb 6.2 (PAS), 5.5 (BRK).				
CENTROID, MOMENT TENSOR (HRV)				
Data Used: GDSN				
L.P.B.: 15S, 39C M.W.: 13S, 25C				
Centroid Location:				
Origin Time 15:05:19.2 0.2				
Lat 18.51S 0.02 Lon 178.93W 0.02				
Dep 503.5 0.9 Half-duration 6.0				
Moment Tensor; Scale 10 ¹⁸ Nm				
Mrr=-3.14 0.05 Mtt= 4.44 0.08				
Mff=-1.29 0.09 Mrt= 2.42 0.07				
Mrf=-3.12 0.07 Mtf=-1.41 0.08				
Principal Axes:				
T Vol= 5.91 Plg=20 Azm= 20				
N -0.31 27 121				
P -5.60 55 258				
Best Double Couple: Mo=5.8*10 ¹⁸				
NP1: Strike= 73 Dip=34 Slip=-143				
NP2: 311 70 -61				
TVI	2.27	328 iPd	06 17.40	0.7
KRO	2.32	312 iPd	06 17.30	0.4
OVA	2.59	297 eP	06 19.60	1.2
SVa	2.72	286 iPc	06 21.10	1.9
		eS	07 17.50	
VUN	2.75	288 iPc	06 20.10	0.7
		eS	07 19.70	
NDE	2.90	321 iPd	06 21.20	0.7
MBU	3.03	308 ePd	06 23.70	2.4
SGE	3.38	292 eP	06 23.70	-0.2
NDF	3.74	287 iP	06 29.50	3.0X
YSA	4.09	301 eP	06 29.40	0.1
PVC	12.30	273 iPd	07 54.30	1.9
		iS	10 22.50	
DZM	14.20	255 iPd	08 13.00	0.9
		iS	10 35.80	
HBZ	18.83	187 eP	08 59.20	1.6
PUZ	19.30	187 eP	09 03.30	1.0
		eS	12 08.20	
WLZ	19.53	193 P	09 06.90	2.5
NOZ	19.87	187 eP	09 08.00	0.4
		S	12 19.70	
WHH	20.36	191 P	09 11.30	-1.0
HATZ	20.44	192 eP	09 12.70	-0.3
CNZ	20.84	192 eP	09 16.70	-0.2
PGZ	22.08	190 eP	09 28.10	0.0
MNG	22.22	192 eP	09 27.70	-1.7
		eS	12 55.90	
HNR	22.63	292 eP+	09 30.00	-3.3X
		e(S)	13 05.00	
MTW	22.74	191 eP	09 32.40	-1.7
CAW	22.78	192 eP	09 33.00	-1.5
WDW	22.95	192 eP	09 35.20	-0.7
BLW	22.95	191 P	09 36.30	0.3
MRW	22.97	193 eP	09 34.90	-1.2
WEL	23.01	192 P	09 39.20	2.7
		i	09 47.00	
		SS	13 10.00	
		SS	17 12.00	
TCW	23.04	193 eP	09 35.70	-1.1
THZ	23.89	195 eP	09 43.50	-1.1
		e	11 13.60	
		eS	13 21.10	
KHZ	24.36	194 eP	09 47.20	-1.4
LTZ	25.01	196 eP	09 52.90	-1.7
		eS	13 39.70	
MOZ	25.79	194 eP	10 00.30	-1.1
BRS	27.44	247 iPc+	10 16.10	-0.1

		i	10 33.10	
		e	10 42.00	
		e	11 23.00	
		eS	14 23.00	
AFR	27.58	92 iP	10 16.70	-0.7
	1.0s	175.00nm	5.5mb	
TBI	27.69	104 eP	10 22.00	3.6X
	0.8s	30.00nm	4.9mb	
PAE	27.75	92 iP	10 18.40	-0.5
	1.0s	195.00nm	5.6mb	
PPT	27.77	92 iP	10 18.60	-0.5
	1.0s	275.00nm	5.7mb	
PPN	27.91	92 iP	10 19.80	-0.5
	1.0s	115.00nm	5.4mb	
MMCZ	27.93	198 P	10 19.50	-0.9
		e	11 48.90	
MHZ	27.94	198 P	10 19.80	-0.7
		e	11 48.80	
MSZ	28.02	200 eP	10 20.90	0.0
		e	11 50.30	
		e	11 50.50	
COO	28.98	241 eP	10 30.00	0.4
PMO	29.78	87 iP	10 36.30	-0.3
	1.0s	100.00nm	5.3mb	
VAH	29.98	88 iP	10 37.60	-0.7
	1.0s	115.00nm	5.4mb	
TPT	30.05	87 iP	10 38.40	-0.5
	1.0s	105.00nm	5.3mb	
RUV	30.23	88 iP	10 39.90	-0.5
	1.0s	180.00nm	5.6mb	
RIV	30.63	235 iPc	10 47.00	3.2X
		e	12 12.00	
		e	13 04.00	
		eS	15 13.00	
		e	18 04.00	
RMO	30.83	250 iPd	10 46.10	0.6
	0.4s	153.00nm	5.9mb	
		e	11 53.00	
RAB	31.90	294 iP-	10 56.00	1.3
		iS	15 28.00	
CNB	32.56	233 iPd	11 01.90	1.7
	0.5s	338.00nm	6.1mb	
		e	15 44.00	
CAN	32.84	234 iPd	11 03.50	1.0
		e	15 47.00	
		e	16 38.10	
CTA	32.94	262 iPd-	11 03.00	-0.4
		iPcP	13 37.00	
		iS	15 42.00	
		iScP	16 36.00	
		iScS	20 37.00	
BWA	32.97	235 eP	11 03.40	-0.2
		e	15 47.70	
		e	16 35.50	
CMS	34.24	242 iPd	11 15.20	0.9
	0.4s	115.00nm	5.8mb	
		e	16 07.00	
KDB	34.25	281 eP	11 14.00	-0.5
QLP	34.86	250 iPd	11 19.80	0.3
LAT	35.43	286 eP	11 25.00	0.7
TOO	36.29	232 iPd	11 32.80	1.6
	0.4s	214.00nm	6.0mb	
		e	16 38.00	
STK	37.86	242 eP	11 45.30	1.2
	0.6s	252.00nm	5.9mb	
		eS	16 59.00	
BFD	38.37	234 iPc	11 49.50	1.2
	0.7s	232.00nm	5.8mb	
MNDI	38.60	284 eP	11 53.00	1.7
OIS	39.13	260 iPd	11 53.70	-1.0
	0.7s	164.00nm	5.7mb	
		e	17 17.00	
RKT	41.01	104 eP	12 13.00	3.1X
	0.9s	80.00nm	5.2mb	
WB5	44.09	261 eP	12 32.90	-1.4
		e	16 39.00	
		e	18 25.20	
WRA	44.11	261 Pc	12 33.20	-1.3
	0.6s	123.30nm	5.6mb	
HON	44.83	28 P	12 40.00	0.1
GUA	48.13	309 eP	13 04.60	-0.7
	1.3s	2569.23nm	6.5mb	
		eS	19 29.40	
GUMO	48.20	309 eP	13 04.20	-1.6
	1.3s	1836.60nm	6.4mb	
PJG	48.20	309 eP	13 04.80	-1.0
MTN	48.42	269 eP	13 06.00	-1.6

08d 21h

Sg 06 34.00			FISA 18.94 24 eP 35 04.00 -1.5			KLB 22.50 186 eP 42 32.00 -4.5X		
S.D. = 0.6 on 7 of 9 obs.			MORO 19.03 27 iP 35 07.60 1.0			e 42 41.00		
JUN 08, 1990 21h 16m 59.25 ± 0.39s			OLLA 19.05 33 eP 35 07.00 0.1			eS 46 34.00		
44.646 N ± 2.9km 7.008 E ± 5.7km			LLAV 19.43 32 eP 35 10.70 -0.5			FORR 22.84 162 eP 42 39.00 -0.8		
DEPTH = 10.0km (geophysicist)			GUAN 19.65 36 iP 35 14.00 0.5			MUN 23.07 189 eP 42 44.00 1.8		
NORTHERN ITALY (545)			ITR 38.45 96 eP 38 05.20 0.3			e 42 55.00		
ML 2.2 (GEN), 2.0 (LDG).			e 38 13.70			eS 46 49.00		
PZZ 0.16 155 P 17 02.98 0.0			CAI 39.73 93 eP 38 15.60 -0.1			MNDI 23.37 84 eP 42 49.00 3.6X		
S 17 05.96			ALQ 49.33 328 eP 39 32.20 -0.3			IPM 23.51 305 ePc 42 48.20 1.7		
RRL 0.32 330 P 17 05.65 -0.3			SCH 61.33 7 eP 40 58.00 -0.7			0.8s 79.70nm 5.3mb		
S 17 10.37			SES 63.47 336 eP 41 13.00 0.0			e 43 55.00		
STV 0.46 151 P 17 08.42 -0.2			FFC 64.09 344 iPd 41 16.20 -0.7			QCP 23.60 2 eP 42 48.00 0.7		
S 17 14.67			1.0s 12.00nm 4.9mb			PSI 24.28 298 iPd 42 55.40 1.4		
ENR 0.51 145 P 17 09.23 -0.4			FRB 69.98 4 eP 41 53.00 -0.8			0.8s 236.60nm 5.8mb		
S 17 16.30			LIC 72.99 82 P 42 13.74 0.9			BAG 25.35 1 eP 43 05.90 1.5		
RSP 0.54 19 P 17 10.67 0.6			TIC 73.06 81 P 42 14.18 0.9			SNG 25.39 309 eP 43 06.10 1.4		
S 17 18.16			0.8s 40.50nm 5.4mb			eS 47 24.00		
ROB 0.71 119 P 17 13.34 0.0			KIC 73.29 82 Pd 42 15.70 1.1			KDB 26.54 93 eP 43 17.00 1.7		
S 17 23.18			0.6s 22.50nm 5.3mb			CTA 27.38 116 iPd 43 23.80 0.9		
SBF 0.84 158 Pg 17 15.80 0.3			YKA 74.19 343 eP 42 18.00 -0.9			1.0s 242.00nm 5.8mb		
Sg 17 28.20			0.5s 2.20nm 4.4mb			i 43 54.00		
LPG 0.87 348 Pg 17 16.20 0.0			INK 83.91 342 eP 43 11.00 -0.4			i 44 02.50		
Sg 17 27.80			MBC 85.80 351 eP 43 22.50 1.7			iS 47 58.00		
LPL 0.89 347 Pg 17 16.20 -0.3			0.6s 3.00nm 4.7mb			QLP 28.59 131 iPd 43 34.90 1.0		
FRF 1.12 194 Pg 17 20.60 0.4			S.D. = 1.1 on 36 of 41 obs.			NNT 29.67 316 eP 43 44.00 0.4		
Sg 17 34.00			JUN 08, 1990 21h 37m 38.45 ± 0.16s			e 46 38.00		
LRG 1.28 202 Pg 17 23.20 0.2			9.103 S ± 3.6km 120.264 E ± 4.8km			OIZ 29.78 340 eP 43 46.00 1.4		
LMR 1.36 196 Pg 17 24.00 -0.2			DEPTH = 33.0km (normal)			E 16s 1.90um S 48 32.00		
Sg 17 42.00			5.6mb (40 obs.) 4.7Msz (3 obs.)			STK 30.09 142 iPd 43 47.20 0.0		
S.D. = 0.3 on 12 of 12 obs.			SUMBA ISLAND REGION (287)			0.9s 81.00nm 5.5mb		
? JUN 08, 1990 21h 24m 25.32 ± 1.89s			CENTROID, MOMENT TENSOR (HRV)			ADE 30.79 149 iPd 43 54.00 0.6		
31.713 S ± 28.9km 68.855 W ± 36.6km			Data Used: GDSN			1.0s 70.00nm 5.4mb		
DEPTH = 110.0km (geophysicist)			L.P.B.: 15S, 30C			NST 31.68 321 iPc 44 03.50 2.2		
SAN JUAN PROVINCE, ARGENTINA (137)			Centroid Location:			RMQ 32.05 126 iPc 44 05.70 1.2		
ZON 0.22 42 iPd 24 41.50 0.2			Origin Time 21:37:45.7 0.7			CMS 32.56 137 eP 44 10.00 1.1		
eS 24 52.00			Lat 9.55S 0.07 Lon 120.17E 0.07			0.7s 17.00nm 5.1mb		
RTCV 0.31 119 eP 24 41.30 -0.1			Dep 101.0 3.1 Half-duration 2.0			GUA 33.24 48 eP 44 13.80 -1.1		
RTLL 0.50 41 iPc 24 42.20 -0.3			Moment Tensor: Scale 10**17 Nm			0.8s 155.22nm 6.0mb		
CFA 0.54 79 iPd 24 42.90 0.2			Mrr=-1.65 0.09 Mtt= 0.40 0.17			GUMO 33.24 48 eP 44 13.20 -1.7		
eS 24 56.10			Mff= 1.25 0.21 Mrt=-0.47 0.10			1.1s 400.47nm 6.2mb		
RTRS 1.62 341 iPc 24 54.00 0.0			Mrf= 0.63 0.09 Mtf= 0.86 0.12			PJG 33.24 48 eP 44 13.20 -1.7		
eS 25 16.00			Principal Axes:			BDT 33.57 321 eP 44 18.50 0.7		
S.D. = 0.3 on 5 of 5 obs.			T Val= 1.81 Plg= 5 Azm=300			0.5s 40.60nm 5.6mb		
JUN 08, 1990 21h 30m 45.17 ± 0.63s			N 0.15 22 208			QZH 33.88 357 P 44 21.40 1.1		
6.128 S ± 3.8km 77.121 W ± 8.7km			P -1.96 68 43			S 49 39.00		
DEPTH = 43.5 ± 8.0 km			Best Double Couple: Mo=1.9*10**17			BFD 34.46 148 eP 44 25.00 -0.3		
5.0mb (6 obs.)			NP1: Strike= 52 Dip=44 Slip=-58			CHG 34.81 323 ePd 44 29.50 1.0		
NORTHERN PERU (111)			NP2: 191 54 -117			1.0s 50.00nm 5.4mb		
TUNG 4.86 344 eP 31 57.50 -0.6			MKS 3.94 348 iPc 38 48.00 9.9X			eS 49 50.00		
VC1 5.60 347 P 32 08.20 -0.5			AAI 9.54 56 ePc 40 07.00 10.4X			CHTO 34.81 323 eP 44 26.30 -2.2		
eS 33 16.00			0.5s 36.00nm			1.0s 50.50nm 5.4mb		
PT0B 5.82 174 iPd 32 12.70 1.0			KNA 10.61 129 iPc 40 09.80 -1.5			pP 44 35.10 30kmX		
eS 33 20.10			eS 41 58.00			sP 44 45.70		
NNA 5.83 177 iPc 32 11.50 0.0			MTN 11.30 110 eP 40 21.00 0.3			PcP 46 02.00		
0.8s 48.51nm 5.0mb			eS 42 09.00			BRS 35.67 125 iPc 44 36.50 0.7		
i 32 13.00			MBL 11.99 182 eP 40 26.30 -3.8X			i 44 47.20		
eS 33 15.50			0.3s 48.00nm 6.1mb			i 44 59.40		
PT10 5.91 179 iPc 32 13.50 0.9			NANU 14.13 198 iPc 40 56.00 -2.5			BWA 36.08 139 eP 44 42.20 3.0X		
eS 33 21.00			0.2s 53.00nm 5.9mb			TOO 36.36 145 iPc 44 43.60 2.1		
QTO 6.05 347 eP 32 22.90 8.0X			KKM 15.58 345 ePc 41 24.00 6.5X			1.0s 108.00nm 5.7mb		
QUR 6.08 347 eP 32 20.70 5.4X			0.6s 35.90nm 4.7mb			COO 36.41 130 eP 44 44.00 2.0		
GGP 6.09 346 ePn 32 16.30 0.6			DAV 16.93 18 eP 41 40.80 6.2X			0.9s 137.00nm 5.9mb		
CAYA 6.23 352 eP 32 16.50 -1.0			WB5 17.34 130 eP 41 37.70 -2.0			CAN 37.00 139 eP 44 48.20 1.3		
COTA 6.53 349 eP 32 24.50 2.7			WRA 17.36 130 P 41 39.00 -0.9			e 46 14.30		
PT02 6.81 174 iP 32 24.70 -0.4			0.5s 48.20nm 4.9mb			CNB 37.24 139 eP 44 50.00 1.1		
eS 33 38.20			MEKA 17.49 185 eP 41 41.20 -0.4			GYA 37.74 340 iPd 44 55.60 2.4		
PSO 7.27 358 eP 32 56.50 24.5X			0.3s 40.00nm 5.0mb			PcP 47 10.60		
PT06 7.69 174 iP 32 33.00 -4.5X			eS 44 35.00			S 50 38.00		
iS 33 53.00			WARB 18.03 161 eP 41 46.00 -2.3			ScP 50 52.00		
PT03 7.92 171 iPc 32 38.90 -1.8			0.3s 29.00nm 4.9mb			ScS 55 00.40		
iS 34 05.40			eS 44 53.00			KMI 38.06 334 Pd 44 58.50 2.4		
BOG 11.11 16 eP 33 26.50 1.7			KGM 20.18 302 ePd 42 13.90 0.7			1.5s 300.00nm 5.9mb		
eS 36 30.00			MRWA 20.41 191 eP 42 14.00 -1.5			Z 20s 1.40um 4.8Msz		
FUQ 12.01 16 eP 33 36.00 -0.9			PPI 21.56 292 eP 42 16.00 -11.3X			S 50 46.00		
ZOBO 13.39 140 P 33 53.00 -1.7			BAL 21.65 188 eP 42 27.50 -0.6			WHN 39.82 352 eP 45 12.00 1.6		
LPB 13.60 140 eP 33 50.00 -8.1X			e 42 38.00			Z 14s 0.60um 4.6MszX		
BMC 13.72 17 eP 33 59.00 -0.4			eS 46 12.00			S 51 10.00		
CCH 15.50 137 P 34 24.70 1.9			COOL 21.69 178 eP 42 28.00 -0.5			Z 20s 1 P 45 14.00 2.3		
SDV 16.26 24 eP 34 31.50 -0.9			eS 46 22.00			SSE 39.98 1 P 45 14.00 2.3		
TOV 17.41 25 eP 34 46.30 -0.5			OIS 21.86 124 iPd 42 31.40 1.1			Z 20s 0.60um 4.4Msz		
SIV 18.54 123 P 34 59.60 -1.0			eS 46 23.00			eS 51 08.00		
			KLM 22.17 302 eP 42 36.50 3.1X			NJ2 40.94 358 Pc 45 21.20 1.6		
						CD2 42.82 339 P 45 35.40 0.3		
						1.2s 200.00nm 5.7mb		
						XAN 44.23 346 P 45 46.30 -0.2		

DEPTH = 25.6km (20 depth phases)
5.5mb (67 obs.) 4.9Msz (6 obs.)

NORTHERN PERU (111)

One person killed and at least
14 houses destroyed (VI) in the
Rioja-Mayobombo area. Felt (II)
at Iquitos.

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 13S, 25C

Centroid Location:

Origin Time 01:14:40.6 0.5

Lot 5.70S 0.06 Lon 77.07W 0.12

Dep 31.1 6.3 Half-duration 2.0

Moment Tensor; Scale 10**17 Nm

Mrr=-0.17 0.09 Mtt= 0.12 0.07

Mff= 0.05 0.14 Mrt=-0.01 0.09

Mrf= 1.95 0.38 Mtf= 0.40 0.07

Principal Axes:

T Val= 1.94 Plg=42 Azm=282

N 0.11 11 181

P -2.05 46 79

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

NP1:Strike= 82 Dip=12 Slip=-9

NP2: 181 8B -101

Table with columns for station name, time, magnitude, depth, distance, and other parameters. Includes stations like PWLA, RSCP, BLA, UYO, NAV, OLY, CVL, NA2, CBN, TUL, LNO, MEO, FVM, GMTN, PNJ, TBR, TXNY, WVLY, ALO, ANMO, WNY, HBVT, RSNY, BNH, GLD, GOL, GLA, PV09, CBM, BAR, TPC, PLM, MSU, RVR, RSSD, GSC, MWC, SBB, DAU, CLC, DUG, BW06, SYP, TNP, FRI, PRI, KVN, LLA, PRS, HPI, CMB, MHC, LRM, ORV, SCH, FHC, SES.

Table with columns for station name, time, magnitude, depth, distance, and other parameters. Includes stations like FFC, NEW, DPW, BMW, PNT, EDM, MCW, PGC, RUV, TPT, VAH, PMO, FRB, PPN, PAE, AFR, LIC, TIC, KIC, YKA, TIO, AVE, IFR, NKM, MAL, TOL, AKU, INK, SPA, EPF, LPF, GRR, MFF, LFF, MBC, FLN, EKA, LPO, LDF, RJF, CAF, TCF, MAF, FBA, BGF, AVF, SSF, SMF, LOR.

Table with columns for station name, time, magnitude, depth, distance, and other parameters. Includes stations like TUNG, VC1, GECU, PT10, OTO, OUR, GGP, CAYA, COTA, PSO, BOG, ARE, FUO, ZOBO, BMG, LPB, SDV, TOV, SIV, ANT, FISA, MORO, OLLA, CAR, LLAV, TTP, TRN, TPR, BOT, SVB, RTRS, SLB, PORP, CPD, RTLL, ZON, CFA, JACH, PEL, FCH, BAO, ITR, HBF, CAI, PRM, JSC, TKL, GBTN.

09d 01h				
DAG	0.9s 88.97 1.0s Z 19s	9.85nm 11 iPc 74.00nm 1.39um	27 28.00 27 28.00 27 40.50 38 21.00	5.1mb 0.2 6.0mb 5.4Msz
DOU	89.32	40 P S	27 40.50 38 21.00	10.5X
LRG	89.42	46 eP 1.4s	27 30.80 56.65nm	0.2 5.7mb
LMR	89.51	46 eP 1.6s	27 31.00 80.85nm	0.0 5.8mb
FRF	89.64	46 eP 1.1s	27 31.40 24.40nm	-0.3 5.4mb
LPL	89.99	44 eP 1.1s	27 34.00 9.75nm	0.4 5.0mb
LPG	90.01	44 eP 1.1s	27 34.30 17.10nm	0.6 5.2mb
IMA	90.08	337 eP 1.5s	27 33.20 17.40nm	-0.2 5.1mb
HAU	90.11	42 eP	27 33.40	-0.4
ENN	90.27	39 eP 0.9s	27 34.00 26.00nm	-0.4 5.5mb
MEM	90.30	39 P	27 44.00	31km
BSF	90.38	42 eP	27 44.30	9.8X
CDF	90.79	42 eP 0.9s	27 36.50 9.85nm	-0.5 5.1mb
WTS	91.01	38 eP 0.9s	27 38.50 31.00nm	0.8 5.6mb
WIT	91.04	37 eP	27 48.00 27 40.00 27 48.00	30km 2.1 25km
SQTA	93.28	43 iPc 1.6s	27 49.10 52.30nm	0.6 5.7mb
MOX	93.85	40 eP 2.0s	27 52.00 29.00nm	1.1 5.4mb
NAO	94.25	29 P 1.2s	27 52.80 9.80nm	0.3 5.1mb
CLL	94.77	39 eP	27 56.00	0.9
KHC	95.00	41 eP	27 55.50	-0.8
BRG	95.34	40 iP 1.0s	27 59.00 12.00nm	1.2 5.3mb
HFS	95.63	30 eP 1.0s	28 07.00 17.60nm	8.2X 4.4mb
PRU	95.68	40 eP	28 09.50	10.2X
BCAO	96.09	86 iPd 1.5s	28 00.00 24.00nm	-2.0 5.4mb
ZST	97.30	42 eP e	28 07.00 32 04.60	0.3
UPP	97.60	30 iP i	28 07.40 28 16.80	-0.3 29km
KRA	99.16	40 eP	28 15.80	0.8
SPC	99.38	41 eP e	28 16.70 32 41.70	0.4
STK	127.22	222 ePKP 1.1s	33 46.40 8.00nm	7.3X
MAIO	130.23	47 ePKP e	33 45.00 37 07.00	0.2
QUE	138.58	50 ePKP	34 11.10	10.2X
WRA	139.67	229 PKPd 0.6s	33 54.40 1.10nm	-8.5X
WB5	139.69	229 PKP	34 00.00	-2.9X
SNY	139.90	336 ePKP	33 58.80	-3.8X
WMO	140.10	17 ePKP	34 02.00	-1.1
HHC	144.50	349 PKP	34 08.60	-2.3X
BTO	145.02	350 PKP	34 10.50	-1.3
KNA	146.42	230 ePKP	34 14.50	-0.1
GTA	146.69	4 PKP	34 14.00	-0.6
TIA	147.27	338 ePKP	34 15.50	0.1
TIY	147.31	346 PKP Z 26s	34 17.50 0.80um	1.9 5.4MszX
MBL	148.23	211 ePKP	34 19.30	1.9
NANU	148.97	203 ePKP	34 21.80	3.3X
SSE	149.74	328 PKPc	34 24.00	4.6X
LZH	150.10	358 PKPc	34 25.00	4.9X
NJ2	150.14	332 PKPc	34 24.20	4.2X
XAN	151.60	349 PKP	34 28.50	6.2X
GKN	152.16	36 PKP	34 24.40	1.0
DMN	152.73	36 PKP	34 25.40	1.1
PKI	152.93	36 PKP	34 24.20	-0.5
GUN	152.94	35 PKP	34 25.70	0.9
WHN	153.36	337 ePKP	34 30.50	5.8X
HYB	153.70	63 ePKP	34 26.00	0.4
GBA	153.87	71 PKPc 1.4s	34 26.40 22.70nm	0.6
CD2	155.27	358 ePKP	34 26.30	-1.1
GYA	159.40	350 PKP	34 33.80	1.1
KMI	161.05	0 ePKP	34 39.50	4.9X
CHG	166.76	16 ePKP	34 40.00	0.3
S.D. = 1.0 on 171 of 212 obs.				
JUN 09, 1990 02h 02m 51.91 ± 0.44s 44.141 N ± 4.5km 8.747 E ± 3.3km DEPTH = 10.0km (geophysicist)				
NORTHERN ITALY (545) ML 2.7 (LDG), 2.4 (GEN). Felt (1) at Genoa.				
FIN	0.39	280 P S	02 59.98 03 06.03	0.0
PCP	0.43	340 P S	02 59.47 03 05.01	-1.2
CKI	0.44	310 Pd eSg	03 00.20 03 05.60	-0.7
ROB	0.65	284 P S	03 04.46 03 13.72	-0.5
IMI	0.66	250 P S	03 05.62 03 15.46	0.5
BOB	0.80	38 P eSg	03 07.80 03 21.20	0.3
ENR	0.96	276 P S	03 10.82 03 23.43	0.6
SBF	0.99	254 Pn Sn	03 11.20 03 24.40	0.5
STV	1.03	276 P S	03 12.18 03 25.51	0.8
DOI	1.14	289 P eSg	03 13.90 03 30.50	0.6
PZZ	1.24	288 P S	03 15.26 03 30.81	0.3
BDI	1.34	93 P P11	03 16.60 03 16.90	0.0
ORO	1.58	340 P	03 20.50	0.4
PGF	1.60	173 Pn Sn	03 20.40 03 39.40	0.0
FRF	1.63	250 Pn Sn	03 19.70 03 40.00	-1.0
LMR	1.81	244 Pn Sn	03 21.80 03 43.00	-1.6
LPL	1.99	315 Pn Sn	03 26.80 03 51.00	0.7
S.D. = 0.7 on 18 of 18 obs.				
% JUN 09, 1990 02h 49m 54.88 ± 0.88s 37.412 N ± 6.8km 3.765 W ± 8.7km DEPTH = 10.0km (geophysicist)				
SPAIN (377) mbLg 2.8 (MDD).				
AFC	0.24	132 iPgc eSn	49 59.40 50 03.20	-0.6
EBAN	0.75	359 iPg eSn	50 09.50 50 20.00	-0.1
MAL	0.86	217 ePn iSg	50 11.50 50 22.20	0.1
ENIJ	1.31	109 ePn ePn	50 19.80 50 23.00	0.6
EVIA	1.58	39 ePn eSn	50 23.00 50 44.00	0.0
S.D. = 0.6 on 5 of 5 obs.				
JUN 09, 1990 03h 53m 11.28 ± 0.52s 43.569 N ± 2.0km 127.201 W ± 5.0km DEPTH = 10.0km (geophysicist) 3.8mb (8 obs.)				
OFF COAST OF OREGON (30)				
GROR	3.10	54 P S	54 00.69 54 39.58	-0.5
KMOR	3.36	51 P S	54 04.51 54 47.52	-0.4
FHC	3.65	138 ePc	54 08.20	-0.9
NLO	3.67	45 P S	54 09.39 54 55.61	0.0
GT2	3.87	64 P	54 12.72	0.5
PGO	3.89	59 P	54 13.01	0.6
BMW	4.05	43 P	54 14.28	-0.3
RVW	4.09	49 P	54 15.32	0.2
TCO	4.09	81 P	54 15.47	0.1
ONR	4.10	35 P	54 14.96	-0.3
VLMM	4.18	60 P S	54 17.18 55 09.70	0.6
LVP	4.23	52 P S	54 17.82 55 10.12	0.6
TDH	4.24	64 P	54 17.85	0.3
VBEM	4.30	68 P	54 18.27	0.0
MTMW	4.32	54 P S	54 18.87 55 12.88	0.3
FL2	4.33	51 P S	54 19.20 55 13.10	0.4
VLL	4.38	62 P	54 20.03	0.6
CZM	4.39	48 P	54 19.37	-0.2
ERK	4.40	50 P	54 19.95	0.2
HSR	4.42	52 P	54 20.89	0.9
JLK	4.42	53 P	54 20.54	0.6
OBH	4.43	31 P	54 19.49	-0.5
REMW	4.43	52 P	54 20.98	0.7
STD	4.43	51 P	54 20.68	0.5
YEL	4.43	52 P	54 20.90	0.6
ESD	4.45	52 P	54 21.07	0.6
CPW	4.45	39 P S	54 19.82 55 12.73	-0.6
APW	4.46	45 P	54 20.24	-0.2
CDFW	4.46	53 P	54 21.06	0.5
VFP	4.46	65 P	54 20.73	0.0
SOSW	4.48	52 P	54 21.37	0.5
APM	4.50	59 P	54 21.50	0.5
TDL	4.50	50 P	54 21.48	0.3
WDC	4.58	129 eP	54 22.00	-0.1
KOSW	4.58	49 P	54 22.66	0.4
GMO	4.59	77 P	54 21.72	-0.7
GULW	4.64	58 P	54 23.51	0.4
LMW	4.66	47 P S	54 23.46 55 21.39	0.1
OOW	4.67	26 P	54 23.15	-0.4
CROR	4.68	70 P	54 22.83	-0.9
ASR	4.75	55 P S	54 25.15 55 23.58	0.4
OFK	4.81	23 P	54 25.12	-0.3
VIPM	4.84	77 P	54 25.12	-0.9
MEW	4.85	40 P	54 26.50	0.6
OSD	4.91	29 P	54 26.61	-0.4
GHW	4.91	43 P	54 27.12	0.2
OTR	4.94	23 P	54 27.03	-0.2
LON	4.96	48 ePc	54 28.00	0.3
GLK	4.97	51 P	54 28.40	0.7
VGB	4.99	65 eP	54 27.50	-0.5
RVC	5.00	46 P	54 28.53	0.3
HDW	5.01	34 P	54 27.91	-0.4
VTHM	5.03	69 P	54 28.07	-0.5
GMW	5.04	36 P S	54 28.02 55 28.80	-0.7
WPW	5.08	50 P	54 29.78	0.4
GL2	5.13	60 P	54 30.21	0.1
FMW	5.15	47 P	54 30.87	0.4
STW	5.20	27 P	54 31.15	0.2
GSM	5.26	44 P	54 32.25	0.3
MIN	5.27	126 eP	54 33.50	1.4
SPW	5.29	39 P	54 32.59	0.4
BLN	5.33	32 P	54 32.99	0.1
PGW	5.34	36 P	54 32.67	-0.2
NAC	5.51	53 P	54 35.86	0.5
JBO	5.60	68 P	54 36.10	-0.5
HTW	5.69	40 P S	54 37.36 55 45.61	-0.6
TWW	5.71	49 P	54 39.02	0.7
MXC	5.74	56 P	54 38.76	0.1
EBG	5.75	52 P	54 39.37	0.6
OHW	5.76	33 P	54 39.69	0.9
PATW	5.78	64 P	54 38.82	-0.3
ORV	5.86	131 eP	54 40.80	0.5
TBM	5.88	50 P	54 41.10	0.5
BRVW	5.88	58 P	54 40.58	-0.1
JCW	5.91	37 P	54 40.61	-0.3
MCW	5.94	29 P	54 41.08	-0.4
PRW	5.96	61 P	54 41.46	-0.2
CMW	6.01	34 P	54 42.35	0.0
MDW	6.08	57 P	54 43.29	-0.1
RSW	6.09	60 P	54 43.28	-0.3
GBL	6.26	58 P	54 45.93	0.0
WAH2	6.27	57 P	54 45.63	-0.4
RPW	6.28	37 P	54 45.86	-0.4

0.6s 6.30nm 4.8mb
 CHTO 56.81 196 e(P) 34 16.30 -1.1
 0.7s 0.79nm 3.9mb X
 WRA 95.77 160 Pc 37 57.00 -0.7
 0.7s 1.40nm 4.5mb
 S.D. = 0.6 on 54 of 54 obs.

& JUN 09, 1990 18h 42m 22.97s
 62.938 N 148.126 W
 DEPTH = 73.6km
 CENTRAL ALASKA (1)
 <AGS-P>.

HUR 0.69 274 eP 42 38.05 -0.2
 0.6s 2.00nm 4.3mb
 MCK 0.88 336 iP 42 40.21 -0.2
 SML 1.14 185 iP 42 43.40 -0.3
 PAX 1.22 87 iP 42 43.96 -0.8
 0.6s 8.00nm 5.0mb
 GH0 1.23 198 iP 42 44.71 -0.2
 0.9s 3.30nm 4.4mb
 TOA 1.23 132 iP 42 45.03 0.1
 0.9s 4.10nm 4.5mb
 DDM 1.33 49 iP 42 46.95 0.7
 0.9s 4.10nm 4.5mb
 KTH 1.41 297 iP 42 47.43 0.1
 0.5s 1.50nm 4.3mb
 PLRM 1.43 200 iP 42 47.59 0.1
 0.8s 2.70nm 4.4mb
 PWA 1.53 213 iP 42 49.76 0.9
 1.0s 10.00nm 4.9mb
 WRH 1.54 1 iP 42 48.07 -0.9
 0.8s 3.35nm 4.6mb
 NEA 1.70 346 eP 42 49.93 -1.2
 0.8s 3.35nm 4.6mb
 CCB 1.72 5 eP 42 50.42 -1.0
 0.7s 2.20nm 4.4mb
 KLU 1.78 144 eP 42 51.62 -0.7
 0.8s 4.05nm 4.6mb
 PMS 1.83 202 eP 42 54.12 1.2
 0.8s 5.35nm 4.8mb
 SKT 1.85 240 iP 42 53.51 0.3
 1.0s 12.00nm 5.1mb
 SUA 1.92 221 eP 42 55.25 0.9
 0.8s 6.70nm 4.9mb
 DOT 1.97 67 eP 42 53.73 -1.2
 S.D. = 0.8 on 30 of 39 obs.
 FBA 1.98 4 iP 42 54.20 -0.7
 VLZ 2.00 154 eP 42 53.93 -1.3
 VZW 2.03 158 eP 42 54.41 -1.3
 GLM 2.08 9 eP 42 55.05 -1.4
 0.9s 8.40nm 4.9mb
 GLI 2.12 166 eP 42 56.14 -0.8
 NCG 2.44 233 eP 43 02.82 1.4
 CGLM 2.45 230 eP 43 02.62 1.0
 CRP 2.53 230 iP 42 59.77 -3.0
 0.7s 2.40nm 4.6mb
 SPU 2.55 228 iP 43 05.50 2.5
 0.9s 8.40nm 4.9mb
 SLKM 2.63 203 eP 43 06.59 2.5
 SEW 2.91 193 eP 43 11.34 3.4
 BALM 3.33 122 eP 43 12.07 -1.8
 30 obs. associated

JUN 09, 1990 20h 08m 30.92 ± 0.49s
 44.467 N ± 10.1km 148.305 E ± 8.5km
 DEPTH = 33.0km (normol)
 4.7mb (20 obs.)
 KURIL ISLANDS (221)

KUSJ 2.94 244 P 09 17.20 0.8X
 S 09 48.30
 ASAJ 4.08 267 P 09 36.90 4.3X
 HOOJ 4.21 242 eP 09 36.70 2.4X
 10 23.00
 MRRJ 5.65 251 P 09 57.90 3.2X
 S 10 58.90
 AOMJ 7.04 239 eP 10 15.80 1.5X
 OFUJ 7.32 225 eP 10 17.00 -1.2X
 S 11 33.40
 YAMJ 8.84 228 eP 10 38.90 -0.5X
 MAT 11.03 228 eP 11 08.00 -1.4X
 0.9s 8.40nm 4.9mb
 BJI 24.10 271 eP 13 45.00 0.7
 1.5s 31.00nm 4.6mb
 TIY 27.70 268 eP 14 18.00 0.0
 LZH 34.58 272 Pc 15 18.50 -0.3
 1.5s 36.00nm 5.1mb
 GTA 36.00 279 P 15 31.20 0.5

1.0s 10.00nm 4.7mb
 CD2 37.31 264 eP 15 41.20 -0.5
 IMA 37.62 35 eP 15 45.40 1.3
 0.8s 3.90nm 4.3mb
 GYA 37.90 256 P 15 47.00 0.1
 FBA 40.03 37 eP 16 05.20 1.2
 KMI 41.48 258 eP 16 17.00 0.4
 WMQ 42.61 291 P 16 26.30 0.8
 CHG 48.28 254 eP 17 11.50 0.6
 CHTO 48.28 254 iP 17 11.50 0.7
 1.1s 8.54nm 4.7mb
 pP 17 20.00 28kmX

YKA 54.74 34 eP 17 59.00 0.0
 0.6s 2.00nm 4.3mb
 NDI 57.50 280 iP 18 19.00 -0.3
 FFC 64.63 37 eP 19 07.50 0.4
 0.6s 8.00nm 5.0mb
 WB5 65.29 194 eP 19 11.10 -0.5
 WRA 65.36 194 Pd 19 11.80 -0.3
 0.9s 3.30nm 4.4mb
 GBA 66.96 267 Pd 19 21.70 -0.8
 0.9s 4.10nm 4.5mb
 FRB 68.26 17 ePc 19 28.00 -2.0
 HFS 69.35 338 eP 19 34.50 -2.3
 0.5s 1.50nm 4.3mb
 KHC 78.73 332 eP 20 31.00 -0.3
 LOR 83.43 337 eP 20 55.60 -0.5
 1.0s 6.00nm 4.7mb
 SSF 83.72 337 eP 20 57.40 -0.1
 0.8s 2.70nm 4.4mb
 SMF 84.00 336 eP 20 58.80 -0.2
 1.0s 10.00nm 4.9mb
 AVF 84.01 337 eP 20 58.90 -0.1
 0.8s 3.35nm 4.6mb
 LPL 84.15 334 eP 21 00.40 0.4
 0.7s 2.20nm 4.4mb
 LPG 84.16 334 eP 21 00.50 0.4
 0.8s 4.05nm 4.6mb
 MAF 84.75 337 eP 21 02.60 -0.1
 0.8s 5.35nm 4.8mb
 MFF 85.13 339 eP 21 05.00 0.4
 1.0s 12.00nm 5.1mb
 LFF 86.43 338 eP 21 11.20 0.1
 0.8s 6.70nm 4.9mb
 BAO 148.11 31 ePKP 28 16.00 4.2X
 S.D. = 0.8 on 30 of 39 obs.

& JUN 09, 1990 20h 16m 52.65s
 46.857 N 120.602 W
 DEPTH = 7.7km
 WASHINGTON (29)
 <SEA> CL 2.8 (SEA).

EBG 0.06 24 Pd 16 54.80 0.2
 NAC 0.20 232 Pc 16 57.90 1.0
 TBM 0.31 0 Pd 16 59.50 0.4
 TWW 0.34 327 P 17 00.14 0.6
 S 17 05.85
 YAKW 0.34 171 Pd 17 00.32 0.7
 S 17 05.83
 MXC 0.35 143 Pd 17 00.17 0.4
 S 17 05.75
 VTG 0.43 76 Pc 17 01.47 0.1
 BVW 0.50 95 Pc 17 02.83 0.2
 BRVW 0.56 131 ePd 17 04.10 0.1
 MDW 0.63 113 P 17 05.11 -0.1
 WPW 0.67 257 P 17 05.57 -0.6
 WAH2 0.72 98 P 17 06.69 -0.4
 FMW 0.74 276 Pc 17 06.79 -0.7
 GLK 0.75 247 Pc 17 07.43 -0.2
 ETW 0.77 14 Pd 17 06.90 -1.1
 GBL 0.83 108 Pc 17 08.82 0.0
 CRF 0.83 92 P 17 08.74 -0.2
 RSW 0.84 123 P 17 08.94 -0.2
 EPH 0.85 54 P 17 09.23 0.0
 GSM 0.89 293 P 17 09.39 -0.6
 PRW 0.90 135 P 17 10.53 0.4
 GL2 0.91 190 P 17 10.20 -0.1
 RVC 0.94 276 P 17 10.31 -0.6
 WTV 0.95 27 P 17 10.45 -0.6
 ASR 0.98 224 P 17 12.22 0.6
 WIW 1.00 115 P 17 11.83 0.0
 WRD 1.01 83 P 17 11.46 -0.5
 GULW 1.16 217 P 17 14.93 0.3
 KOSW 1.16 251 P 17 14.31 -0.3
 SAW 1.18 44 P 17 14.23 -0.6
 LMW 1.18 261 P 17 14.88 0.0

TDL 1.22 246 P 17 15.18 -0.5
 NLW 1.23 8 P 17 15.21 -0.7
 HTW 1.24 320 ePd 17 15.23 -0.6
 CDFW 1.24 234 P 17 16.19 0.2
 ESD 1.26 239 P 17 16.77 0.5
 STD 1.28 242 P 17 16.47 -0.2
 JLK 1.29 237 P 17 17.09 0.3
 SPW 1.32 302 P 17 18.67 1.5
 BLH 1.38 316 P 17 18.35 0.2
 GMW 1.64 296 P 17 22.60 0.6
 VTHM 1.68 179 P 17 22.66 0.2
 RPW 1.71 339 P 17 23.35 0.4
 BMW 1.85 259 P 17 25.48 0.5
 CMW 1.87 327 P 17 26.40 1.0
 VBEM 1.92 201 P 17 26.78 0.6

46 obs. associated

* JUN 09, 1990 21h 15m 05.32 ± 1.24s
 7.542 S ± 15.0km 119.362 E ± 10.7km
 DEPTH = 298.3 ± 17.3 km
 4.1mb (3 obs.)

FLORES SEA (279)

TRT 6.67 268 ePd 16 43.80 0.5
 KNA 12.30 132 eP 17 51.50 -1.2
 eS 20 05.00
 MTN 12.72 115 eP 17 58.00 0.1
 eS 20 12.00
 NANU 15.38 193 eP 18 29.00 -0.4
 WB5 19.03 132 iPd 19 08.20 0.8
 WRA 19.05 132 Pd 19 08.40 0.8
 0.3s 1.40nm 3.8mb
 PKI 47.93 318 P 23 16.60 -0.1
 0.4s 4.00nm 4.1mb
 DMN 48.16 318 P 23 18.20 -0.1
 GKN 48.73 318 P 23 22.20 -0.4
 0.4s 9.00nm 4.5mb
 S.D. = 0.8 on 9 of 9 obs.

JUN 09, 1990 21h 38m 21.17 ± 0.23s
 1.253 N ± 4.4km 123.422 E ± 5.1km
 DEPTH = 34.3km (11 depth phases)
 5.1mb (20 obs.) 4.7MsZ (8 obs.)
 MINAHASSA PENINSULA (265)
 CENTROID, MOMENT TENSOR (HRV)
 Dato Used: GDSN
 L.P.B.: 14S, 24C
 Centroid Location:
 Origin Time 21:38:23.3 0.5
 Lot 1.41N 0.09 Lon 123.43E 0.10
 Dep 15.9 3.6 Half-duration 1.9
 Moment Tensor: Scole 10**17 Nm
 Mrr=-1.13 0.13 Mtt=-0.86 0.09
 Mff=-0.28 0.14 Mrt=-1.38 0.47
 Mrf=-1.54 0.47 Mtf=-0.50 0.12
 Principal Axes:
 T Vol= 2.39 Plg=58 Azm=124
 N -0.07 7 226
 P -2.32 31 321
 Best Double Couple: Mo=2.4*10**17
 NP1: Strike= 73 Dip=16 Slip= 118
 NP2: 224 76 82

MNI 1.43 82 ePc 38 48.00 2.9
 eS 38 57.00
 DAV 6.18 20 eP 39 52.50 -0.1
 AAI 6.84 136 eP 40 02.00 0.2
 eS 41 24.50
 MKS 7.54 212 iPd 40 14.00 2.4
 KKM 8.62 304 ePc 40 26.00 -0.7
 TRT 13.96 230 iPd 41 43.50 4.6X
 BAG 15.32 350 eP- 41 56.00 -0.9
 eS 45 04.00
 MTN 15.96 152 iPd 42 04.70 -0.2
 e 42 14.00
 KNA 17.70 163 iPd 42 26.50 -0.3
 KGM 20.11 272 ePd 42 55.70 0.7
 KLM 21.84 275 eP 43 15.00 2.3
 QIZ 22.12 324 P 43 15.00 -0.5
 N 15s 2.20um
 E 16s 1.40um
 sP 43 25.00
 MBL 22.55 189 iPd 43 19.10 -0.6
 IPM 22.61 279 ePc 43 22.00 1.6
 HKK 22.78 337 iP 43 26.00 4.1X
 iS 47 32.00
 PPI 23.09 266 eP 43 27.00 2.0

CMP 6.15 9 ePc 47 53.00 -2.1
 ISR 6.30 19 eP 48 04.00 6.6X
 MGR 6.35 281 P 47 57.80 -0.2
 MLR 6.51 14 eP 48 00.00 -0.3
 SGO 6.59 285 P 48 01.50 0.1
 BZS 6.59 347 eP 48 00.00 -1.4
 CFR 6.84 28 eP 48 35.00 30.2X
 BSS 7.01 286 P 48 09.30 2.0
 VRI 7.03 18 ePd 48 09.00 1.4
 BBTk 7.04 82 eP 48 38.00 30.1X
 MEU 7.21 256 P 48 09.80 -0.5

BCAO 34.92 189 iPd 53 14.00 -2.0
 1.0s 5.00nm 4.4mb
 S.D. = 1.1 on 45 of 53 obs.

* JUN 09, 1990 23h 25m 22.67 ± 2.62s
 24.246 N ± 11.2km 122.504 E ± 20.2km
 DEPTH = 10.0km (geophysicist)

TAIWAN REGION (243)

TWC 0.70 301 iPd 25 36.60 0.1
 eS 25 41.80
 TWD 0.85 259 iPd 25 38.30 -0.7
 TWZ 1.19 315 iPd 25 45.60 0.7
 eS 25 57.20
 ANP 1.30 316 iP 25 46.80 0.1
 eS 25 59.00
 TWO 1.52 271 iPd 25 49.20 -0.8
 TWK 2.09 243 ePc 25 59.20 1.0
 SSE 6.92 351 P 27 06.20 -0.4
 eLg 29 04.20
 S.D. = 0.8 on 7 of 7 obs.

* JUN 10, 1990 00h 49m 27.38s
 62.379 N 151.192 W
 DEPTH = 87.1km
 CENTRAL ALASKA (1)
 <AGS-P>.

SKT 0.43 202 iP 49 40.84 -0.7
 HUR 0.94 49 iP 49 45.47 -0.9
 eS 49 58.76
 SUA 0.94 167 iP 49 46.09 -0.5
 eS 50 00.14
 PWA 0.96 139 eP 49 46.31 -0.3
 NCG 1.08 205 eP 49 47.31 -0.9
 CGLM 1.14 200 eP 49 48.00 -1.0
 KTH 1.19 6 eP 49 48.61 -0.9
 eS 50 04.16
 CRP 1.21 203 iP 49 49.15 -0.7
 GH0 1.23 119 eP 49 49.38 -0.6
 eS 50 06.40
 PLRM 1.25 128 eP 49 49.23 -1.0
 SPU 1.27 199 eP 49 49.58 -0.9
 PMS 1.38 145 iP 49 51.09 -0.8
 eS 50 09.57
 SML 1.46 112 iP 49 51.95 -1.0
 RDT 1.90 198 eP 49 58.02 -0.8
 SLKM 1.94 166 eP 49 58.34 -0.8
 NCA 2.08 99 eP 49 57.25 -4.0
 RED 2.11 202 eP 50 01.07 -0.5
 TOA 2.37 94 eP 50 03.62 -1.4
 SEW 2.43 159 eP 50 03.51 -2.4
 GLI 2.47 126 eP 50 04.61 -1.8
 VZW 2.57 119 eP 50 05.87 -2.0
 KLU 2.65 107 eP 50 06.44 -2.5
 22 obs. associated

JUN 10, 1990 02h 09m 00.43 ± 0.47s
 57.071 N ± 11.8km 158.082 E ± 6.9km
 DEPTH = 33.0km (normal)
 4.7mb (21 obs.) 3.8Msz (1 obs.)
 KAMCHATKA (217)

TTA 23.26 56 eP 14 06.60 1.1
 SVW 23.72 61 eP 14 12.00 2.1
 IMA 24.05 48 eP 14 14.20 1.0
 1.3s 31.60nm 4.7mb
 CN2 24.38 251 P 14 17.00 0.6
 Z 12s 0.40um 4.1MszX
 N 13s 0.50um
 E 13s 0.30um
 epP 14 27.00 37kmX
 eS 18 36.00
 MAT 24.46 221 (P) 14 17.00 -0.2
 eS 18 50.00

FBA 26.60 51 eP 14 38.20 1.2
 TOA 27.89 56 eP 14 48.70 -0.2
 INK 31.53 41 eP 15 20.00 -1.0
 MBC 33.88 25 eP 15 42.50 1.1
 BTO 34.82 263 eP 15 51.00 0.9

N 14s 0.40um
 E 14s 0.40um
 eS 21 15.00
 TIY 35.60 257 eP 16 00.40 3.7X
 Z 14s 0.60um 4.5MszX
 N 13s 0.50um

YKA 41.08 45 P 16 39.40 -2.6
 GTA 41.22 270 eP 16 43.40 -0.2
 1.2s 10.00nm 4.4mb
 Z 15s 0.70um 4.7MszX
 E 13s 0.50um

LZH 41.43 263 P 16 46.00 0.6
 Z 15s 0.50um 4.5MszX
 E 15s 0.60um

WMO 44.71 284 P 17 12.50 0.6
 GYA 47.43 252 P 17 35.20 1.6
 SES 50.34 56 eP 17 58.00 2.3
 FFC 51.12 47 iPc 18 03.80 2.3
 0.7s 8.00nm 4.8mb
 WDC 51.72 72 e(P) 18 25.40 19.1X
 FRB 54.31 23 ePc 18 22.00 -3.1X
 CMB 54.73 73 eP 18 29.10 0.5
 SUF 54.88 335 eP 18 28.00 -1.3
 0.8s 8.50nm 4.8mb
 KVN 55.15 71 eP 18 31.70 -0.2
 FRI 55.87 73 e(P) 18 34.80 -2.0
 TNP 56.34 71 eP 18 40.10 -0.4
 0.8s 5.44nm 4.6mb

BW06 56.62 62 eP 18 40.00 -2.5
 1.2s 7.53nm 4.6mb
 NUR 57.17 335 eP 18 46.00 0.2
 GUN 57.47 272 P 18 47.50 -1.3
 CHG 57.73 254 eP 18 51.70 1.5
 CHTO 57.73 254 eP 18 51.30 1.1
 1.0s 3.50nm 4.4mb

PKI 57.99 272 P 18 50.90 -1.5
 GKN 58.07 273 P 18 51.60 -1.1
 DMN 58.13 272 P 18 52.30 -1.0
 RSSD 58.18 57 eP 18 51.60 -1.8
 NAO 59.66 342 P 19 01.60 -1.6
 1.1s 8.20nm 4.8mb
 HFS 59.80 340 eP 19 02.00 -2.2
 0.8s 3.80nm 4.6mb
 GOL 60.99 61 eP 19 13.00 0.1
 GLD 61.03 61 eP 19 12.50 -0.5
 ALO 64.22 65 eP 19 34.00 -0.3
 0.9s 2.10nm 4.2mb
 KRA 67.78 332 eP 19 56.90 0.4
 KSP 67.93 335 eP 19 58.00 0.5
 CLL 68.22 337 eP 19 59.00 -0.2
 1.4s 20.00nm 5.0mb

BRG 68.43 336 eP 20 02.20 1.6
 1.4s 16.00nm 4.9mb
 TUL 68.53 57 eP 20 02.10 0.7
 1.3s 7.80nm 4.6mb
 PRU 69.13 336 eP 20 04.50 -0.4
 MOX 69.14 338 eP 20 06.00 1.1
 1.4s 16.00nm 4.9mb
 GRF 70.13 338 eP 20 10.90 -0.1
 2.0s 54.00nm 5.3mb

Z 20s 0.05um 3.8Msz
 KHC 70.15 336 eP 20 11.50 0.3
 1.2s 10.00nm 4.8mb
 LOR 73.83 342 eP 20 33.00 0.0
 0.8s 4.05nm 4.5mb

SSF 74.09 342 eP 20 33.20 -1.3
 0.6s 1.80nm 4.2mb
 AVF 74.38 342 eP 20 33.20 -3.0
 0.8s 5.35nm 4.6mb

LPL 75.01 340 eP 20 42.30 2.2
 0.8s 5.35nm 4.6mb
 LPG 75.02 340 eP 20 42.50 2.2
 0.8s 7.40nm 4.7mb
 WB5 79.19 203 eP 21 02.00 -1.3
 S.D. = 1.4 on 51 of 54 obs.

% JUN 10, 1990 03h 10m 54.27 ± 0.71s
 42.958 N ± 4.3km 13.262 E ± 8.9km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)

ASS 0.46 285 P 11 03.00 -0.5
 eSg 11 08.40
 ARV 0.59 337 P 11 05.70 -0.5
 eSg 11 15.60
 AQU 0.61 170 P 11 05.60 -1.1
 eSg 11 15.60

MNS 0.72 217 P 11 07.50 -0.9
 AZI 0.98 172 P 11 13.50 0.7
 RSM 1.13 329 P 11 16.30 0.8
 CRE 1.17 305 P 11 17.10 0.9
 eSg 11 32.80

RMP 1.22 200 P 11 17.50 0.5
 eSn 11 34.00
 RDP 1.27 199 P 11 18.00 0.2
 eSg 11 35.00
 SDI 1.32 162 P 11 19.10 0.5
 SFI 1.41 314 P 11 20.00 0.1
 eSn 11 40.00

PGD 1.45 310 P 11 21.00 0.3
 CTI 3.30 340 P 11 46.00 -1.1
 S.D. = 0.8 on 13 of 13 obs.

JUN 10, 1990 03h 17m 44.52 ± 0.62s
 24.191 S ± 3.9km 66.912 W ± 7.3km
 DEPTH = 158.3 ± 6.3 km
 4.7mb (13 obs.)

SALTA PROVINCE, ARGENTINA (129)

ANT 3.24 278 iPc 18 36.00 0.2
 iS 19 07.50
 i 19 10.50
 RTRS 6.37 200 ePd 19 18.00 0.8
 eS 20 26.70

CCH 6.81 6 P 19 27.70 4.2X
 RTLL 7.24 191 ePc 19 28.00 -1.0
 RTCB 7.46 193 eP 19 31.50 -0.3
 CFA 7.48 189 iPc 19 31.00 -1.1
 ZON 7.49 192 eP 19 33.00 0.7
 LPB 7.70 351 iPd 19 34.20 -1.2
 1.0s 864.00nm 6.2mb X
 S 21 01.00

ZOBO 7.96 352 iPd 19 42.00 2.9
 ARE 8.81 330 iPc 19 48.40 -1.6
 iS 21 21.60
 MDZ 8.83 191 i(P) 19 51.10 1.1
 JACH 9.06 200 iPd 19 54.00 0.9
 PEL 9.51 200 iPc 19 59.60 0.6
 i 21 39.00

FCH 9.57 197 eP 20 00.00 -0.1
 SAN 9.80 199 eP 20 03.00 0.3
 PCH 9.91 198 eP 20 04.50 0.2
 TACH 10.06 200 eP 20 04.50 -1.7
 CHCH 10.24 198 eP 20 07.00 -1.6
 LNV 10.49 201 eP 20 07.00 -4.8X
 PT08 15.22 321 iPc 21 19.80 6.9X
 eS 23 56.00

NNA 15.36 320 eP 21 15.80 1.4
 0.8s 8.21nm 4.1mb
 e 24 00.00
 BAO 19.70 68 ePc 22 05.10 1.2
 ITR 31.23 65 eP 23 50.70 -0.6
 e 23 55.10
 e 24 35.50

CAI 33.53 63 iPd 24 09.40 -1.8
 RSCP 62.03 343 iP 27 48.00 -2.2
 BLA 62.38 348 eP 27 52.00 -0.5
 0.5s 6.75nm 4.8mb

UYO 63.67 335 iPd 28 01.00 0.1
 FVM 65.67 340 eP 28 12.20 -1.6
 epP 28 56.30 187kmX
 LNO 65.72 335 eP 28 12.90 -1.1
 TUL 65.72 335 iP 28 13.50 -0.6
 1.1s 15.30nm 4.8mb
 e 28 57.70

SPA 65.95 180 iPd 28 15.40 -0.1
 0.8s 40.83nm 5.4mb
 LKO 68.59 68 (P) 28 32.22 -0.3
 ALQ 69.74 326 ePd 28 39.00 -0.5
 0.9s 14.50nm 4.8mb
 e 29 24.00

ANMO 69.75 326 eP 28 39.80 0.4
 0.9s 10.92nm 4.7mb
 GLD 72.97 330 eP 28 59.00 0.5
 0.9s 31.58nm 5.0mb
 GOL 72.99 330 eP 28 58.20 -0.6
 0.8s 4.91nm 4.3mb
 SBA 73.52 190 e(P) 29 01.40 0.4

? JUN 10, 1990 05h 41m 38.72±0.97s
56.787 S ±22.8km 24.581 W ±21.8km
DEPTH = 33.0km (normal)
5.0mb (4 obs.)

SOUTH SANDWICH ISLANDS REGION (153)

SPA 33.39 180 eP 48 15.60 -0.3
1.0s 16.50nm 4.9mb
SWZ 45.96 71 eP 49 50.00 -10.3X
SEK 46.26 75 eP 50 10.00 7.3X
SLR 48.68 73 iPc 49 57.20 -24.5X
ITR 49.11 342 eP 50 21.30 -3.6X
BFT 49.65 75 eP 50 31.50 2.3X
1.0s 12.00nm 4.9mb
CCH 50.12 304 Pd 50 36.40 3.4X
LPB 51.76 303 iPc 50 44.00 -1.6
1.0s 70.00nm 5.6mb
ZOBO 52.00 303 iPc 50 50.80 3.2X
Z 24s 0.13um 3.9Mszx
eLR 08 24.00
ARE 53.42 299 eP 51 00.00 2.2X
BUL 53.44 69 iPd 50 57.40 -0.3
KRI 56.73 68 iPc 51 27.50 5.8X
NNA 59.87 297 eP 51 44.50 1.0
0.8s 10.45nm 5.0mb
BCAO 70.34 46 iPd 52 53.00 2.0X
YKA 137.70 316 PKP 01 00.90 1.2
MBC 145.25 335 ePKP 01 16.00 3.4X
1.4s 29.00nm
INK 147.30 319 ePKPc 01 20.70 4.6X
S.D. = 1.6 on 5 of 17 obs.

? JUN 10, 1990 06h 39m 15.09±1.50s
18.105 S ±20.8km 71.873 W ±16.8km
DEPTH = 10.0km (geophysicist)
4.8mb (2 obs.)

OFF COAST OF NORTHERN CHILE (121)

ARE 1.67 13 iPd 39 44.90 0.0
iS 40 04.00
LPB 3.93 67 Pc 40 20.30 3.1X
1.0s 640.00nm
ZOBO 4.02 64 iPc 40 26.40 7.8X
S 41 56.00
CCH 5.51 83 P 40 46.50 7.0X
i 40 50.30
PT03 5.56 317 eP 40 57.60 17.6X
iS 41 37.70
PT06 6.04 314 iP 40 05.80 -40.8X
iS 41 49.90
PT08 7.60 323 eP 41 08.10 -0.8
NNA 7.75 321 eP 41 12.00 1.3
0.8s 7.46nm 4.9mb X
e 41 17.70
eS 42 41.50
PT10 7.75 320 e(P) 41 17.00 6.2X
e(S) 42 49.00
BAO 22.98 87 eP 44 15.00 -6.2X
TUL 58.30 337 eP 49 11.10 -1.4
1.0s 6.70nm 4.7mb
LKO 70.95 73 P 50 35.56 0.3
0.5s 5.00nm 4.9mb
SES 76.43 335 eP 51 07.00 0.5
YKA 87.09 342 P 52 01.90 0.0
MAT 147.77 311 ePKP 59 04.00 4.9X
0.8s 10.45nm
GBA 150.16 94 PKP 59 13.00 9.7X
1.0s 12.30nm
S.D. = 1.1 on 7 of 16 obs.

? JUN 10, 1990 07h 35m 02.66±2.28s
17.554 N ±21.0km 99.247 W ±15.8km
DEPTH = 33.0km (normal)

GUERRERO, MEXICO (59)

III 0.84 346 iPd 35 16.50 -1.8
iS 35 35.50
PPM 1.62 21 eP 35 30.00 0.3
IIT 1.71 31 eP 35 30.50 -0.3
UNM 1.77 2 (P) 35 40.00 8.3X
(S) 36 05.00
IIJ 2.22 348 iP 35 40.00 1.7
(S) 36 20.00
DXX 2.46 101 eP 35 41.50 0.0
iS 36 17.00
MRX 2.82 320 eP 35 46.50 0.1

S.D. = 1.5 on 6 of 7 obs.

? JUN 10, 1990 08h 26m 57.52±9.40s
41.107 N ±50.3km 19.381 E ±68.8km
DEPTH = 10.0km (geophysicist)

ALBANIA (391)

KEK 1.43 167 ePb 27 23.50 0.0
EVR 2.87 139 iPnc 27 45.90 1.6
PLG 3.17 102 ePn 27 47.50 -1.0
NED 3.45 120 ePg 28 01.50 9.1X
RDO 4.65 87 ePn 28 10.00 0.6
VLI 5.19 147 ePn 28 15.80 -1.2
S.D. = 1.6 on 5 of 6 obs.

? JUN 10, 1990 09h 25m 00.25±1.18s
39.520 N ±14.5km 15.588 E ±41.6km
DEPTH = 282.6 ± 11.7 km
3.6mb (1 obs.)

SOUTHERN ITALY (390)

TDS 0.60 76 P 25 37.30 0.1
eSn 26 01.50
MGR 0.62 358 Pd 25 37.00 -0.2
eSn 26 01.50
DRI 0.86 50 P 25 38.00 -0.1
eSn 26 03.50
SGO 1.06 348 Pd 25 39.50 0.2
ATN 1.36 184 P 25 41.00 -0.1
eSn 26 09.50
SDI 1.49 166 P 25 42.00 0.1
eSn 26 09.00
HFS 20.67 357 eP 29 19.20 0.0
0.4s 1.10nm 3.6mb
S.D. = 0.2 on 7 of 7 obs.

JUN 10, 1990 10h 42m 38.71±1.28s
5.880 N ± 6.9km 127.235 E ± 8.8km
DEPTH = 71.0 ± 12.6 km
4.6mb (8 obs.)

PHILIPPINE ISLANDS REGION (248)

DAV 2.04 306 eP 43 12.50 1.0
eS 43 41.50
MNI 5.01 209 ePc 43 52.00 -1.2
BAG 12.33 329 eP 45 38.50 5.1X
GUMO 18.98 65 eP 46 45.80 -11.7X
eS 50 33.00
PJG 18.98 65 eP 46 45.70 -11.8X
GUA 19.00 65 eP 46 45.70 -12.0X
e 47 09.70
MTN 19.00 168 eP 46 59.00 1.3
QIZ 21.40 309 eP 47 23.50 1.0
WB5 26.54 165 eP 48 11.50 -0.3
WRA 26.60 165 Pc 48 17.00 4.7X
0.3s 5.90nm 4.6mb
LOE 27.44 297 eP 48 19.00 -1.0
KMI 30.28 312 Pd 48 45.50 0.8
CHG 30.42 298 eP 48 45.80 0.1
CHTO 30.42 298 eP 48 45.90 -0.8
TSRJ 30.59 14 P 48 48.80 0.8
CHJJ 31.91 18 P 48 59.10 -0.5
MTMJ 32.06 16 eP 49 01.00 0.0
MAT 32.13 17 eP 49 01.00 -0.5
KAKJ 32.43 20 eP 49 02.20 -1.9
XAN 32.76 331 P 49 06.20 -0.9
NIJJ 33.01 17 eP 49 10.20 1.0
CDJ 33.25 321 eP 49 11.00 -0.4
TIY 34.44 339 eP 49 20.50 -1.1
Z 20s 0.38um 4.1Msz
BJI 35.44 345 eP 49 29.50 -0.4
0.8s 6.00nm 4.6mb
LZH 36.94 328 Pc 49 43.00 0.1
1.5s 42.00nm 5.1mb
Z 25s 0.50um 4.2Mszx
STK 39.97 161 iPc 50 11.00 3.0X
0.8s 5.00nm 4.5mb
GTA 41.54 327 iPc 50 22.00 1.0
0.8s 10.00nm 4.7mb
GUN 44.91 304 P 50 49.00 0.2
PKI 45.18 303 P 50 50.40 -0.5
DMN 45.44 303 P 50 52.60 -0.3
GKN 45.97 304 P 50 56.40 -0.5
GBA 49.60 283 P 51 26.00 0.9
0.9s 5.60nm 4.6mb
WMO 51.28 324 iPd 51 38.40 0.7
NDI 52.39 302 iPd 51 45.00 -1.2

0.6s 13.33nm 5.1mb
MAIO 68.63 307 eP 53 26.00 -10.7X
SUF 89.88 333 eP 55 40.00 9.2X
NAO 97.36 334 P 56 07.60 2.4
0.7s 1.10nm 4.5mb
ZOBO 161.75 126 ePKP 02 46.00 11.9X
S.D. = 1.0 on 29 of 38 obs.

* JUN 10, 1990 10h 53m 28.66±1.67s
5.844 N ± 7.0km 127.259 E ±15.1km
DEPTH = 73.9 ± 14.5 km
4.5mb (9 obs.)

PHILIPPINE ISLANDS REGION (248)

DAV 2.08 307 eP 54 03.00 0.9
eS 54 31.70
MNI 4.99 209 ePd 54 42.00 -0.8
MTN 18.96 168 eP 57 47.00 0.0
GUMO 18.97 65 eP 57 13.80 -33.3X
e 57 46.20
PJG 18.97 65 eP 57 14.00 -33.1X
QIZ 21.44 309 P 57 53.90 -18.7X
WB5 26.50 165 eP 59 00.20 -0.9
e 59 06.30
WRA 26.56 165 Pd 59 02.00 0.4
0.5s 2.10nm 3.9mb
LOE 27.47 297 eP 59 09.00 -1.0
KMI 30.32 312 Pd 59 36.50 0.8
KMI 30.32 312 Pd 59 26.50 -9.2X
CHG 30.45 298 eP 59 36.20 -0.5
CHTO 30.45 298 eP 59 36.50 -0.2
0.6s 2.53nm 4.1mb
NANU 30.48 202 eP 59 37.00 0.2
MAT 32.16 17 (P) 59 51.00 -0.4
XAN 32.80 331 P 59 56.50 -0.6
MEKA 33.35 194 eP 00 01.50 -0.4
TIY 34.48 339 eP 00 09.40 -2.2
BJI 35.48 345 eP 00 25.00 5.1X
0.8s 6.00nm 4.6mb
LZH 36.98 328 Pc 00 33.50 0.6
2.0s 57.00nm 5.2mb
Z 25s 0.50um 4.2Mszx
HHC 37.58 340 eP 00 39.50 1.7
KLB 38.31 193 eP 00 44.70 0.8
MUN 39.06 195 iPd 00 51.00 0.9
STK 39.93 161 iPd 00 59.50 2.2X
0.7s 4.00nm 4.5mb
GTA 41.59 327 P 01 12.00 1.0
0.8s 10.00nm 4.7mb
BWA 44.76 155 eP 01 39.10 2.4X
CAN 45.77 155 e(P) 01 50.40 5.7X
GBA 49.63 283 P 02 16.00 1.0
0.6s 3.00nm 4.5mb
WMO 51.32 324 P 02 25.80 -1.8
NDI 52.43 302 iPd 02 35.00 -1.1
0.5s 12.68nm 5.2mb
SUF 89.92 333 eP 06 23.00 2.4X
NAO 97.40 334 P 06 56.80 1.8
0.7s 1.10nm 4.5mb
KSP 98.48 323 eP 06 47.00 -13.1X
e 07 11.00
BRG 99.86 324 i(P) 07 19.20 12.8X
ZOBO 161.71 126 PKP 13 35.00 11.4X
S.D. = 1.1 on 23 of 35 obs.

JUN 10, 1990 11h 25m 40.06±0.74s
18.166 S ±10.0km 69.594 W ± 6.9km
DEPTH = 132.4 ± 10.1 km
4.9mb (2 obs.)

NORTHERN CHILE (123)

LPB 2.16 42 iPd 26 15.60 -1.4
1.0s 412.00nm
i 26 38.50
ZOBO 2.35 37 iPd 26 23.00 3.4X
ARE 2.48 313 iPc 26 24.00 3.0X
iS 26 54.20
CCH 3.38 77 iPc 26 34.50 1.8
ANT 5.56 188 eP 27 01.50 -0.3
iS 38 01.80
PT03 7.26 304 iP 27 24.50 -0.5
iS 28 40.80
PT06 7.78 303 iP 27 32.20 0.2
iS 28 53.30
SIV 8.43 76 P 27 37.60 -3.1X
PT08 9.12 312 iPd 27 51.00 0.7
eS 29 25.80

10d 14h

Table with columns for station ID (e.g., PMS, SKT, PWA), time/depth, and associated 25 observations.

& JUN 10, 1990 14h 48m 30.50s 60.475 N 145.187 W

SOUTHERN ALASKA (2) <AGS-P>

Table listing stations in Southern Alaska (e.g., SGAM, RAGM, CVA, HIN, VLZ, VZW, GLI, KLU, WAX, TGL, MID, CYK, BALM, TOA, SCM, SML, SDG, PLRM, GHO, PMS, PAX, SUA, SKT) with their respective measurements.

JUN 10, 1990 15h 11m 52.69±0.79s 0.008 N ± 6.0km 123.322 E ± 8.9km DEPTH = 172.3 ± 9.3 km 4.7mb (6 obs.)

MINAHASSA PENINSULA (265)

Table listing stations in Minahassa Peninsula (e.g., MNI, MKS, MTN, WB5, WRA, QIZ, QIS, CHTO, GYA, CD2, XAN, TIY, MAT, LZH, BWA, CAN, GTA, MDJ, GUN, PKI, DMN, GKN) with their respective measurements.

Table with columns for station ID (WMO, MLR, HFS) and time/depth (0.7s, 39.00nm, 5.1mb).

JUN 10, 1990 15h 23m 50.71±0.76s 42.941 N ± 9.3km 21.330 E ± 6.4km DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383) ML 2.5 (TTG)

Table listing stations in Yugoslavia (e.g., SKO, IVA, PVY, VTS, PLE, TTG, VAY, OHR, BEO, BRY, BZS, RZN) with their respective measurements.

S.D. = 1.4 on 10 of 12 obs.

% JUN 10, 1990 15h 25m 29.16±0.89s 45.672 N ± 8.1km 26.860 E ± 8.1km DEPTH = 10.0km (geophysicist)

ROMANIA (358)

Table listing stations in Romania (e.g., VRI, ISR, MLR, PPE, CLI, CFR, TLB) with their respective measurements.

S.D. = 1.4 on 5 of 7 obs.

JUN 10, 1990 15h 58m 50.30±0.37s 43.650 N ± 8.4km 148.545 E ± 5.1km DEPTH = 47.6km (3 depth phases) 4.8mb (33 obs.) 4.1Msz (1 obs.)

KURIL ISLANDS REGION (222)

Table listing stations in Kuril Islands Region (e.g., MAT, CN2, BJI, TIA, MHC, TIY, BTO, XAN, ANM, LZH, GTA, TTA, SVW, CD2, GYA) with their respective measurements.

Table with columns for station ID (IMA, PMR, FBA, KMI, WMO, INK, CHTO) and time/depth (38.20, 34 eP, 06 07.20, 0.4).

Table listing stations in the top right section (e.g., YKA, NDI, SUF, WB5, WRA, LRM, CMB, KVN, NUR, TNP, BW06, HFS, NAO, RSSD, KRA, CLL, PRU, EKA, KHC, GRF, SOTA, CDF, BSF, FLN, LDF, LOR, LBF, GRR, SSF, SMF, AVF, LPF, LPL, LPG, BNH, MAF, TCF, LSF, MFF, CAF, LFF) with their respective measurements.

Table listing stations in the middle right section (e.g., YKA, NDI, SUF, WB5, WRA, LRM, CMB, KVN, NUR, TNP, BW06, HFS, NAO, RSSD, KRA, CLL, PRU, EKA, KHC, GRF, SOTA, CDF, BSF, FLN, LDF, LOR, LBF, GRR, SSF, SMF, AVF, LPF, LPL, LPG, BNH, MAF, TCF, LSF, MFF, CAF, LFF).

Table listing stations in the lower middle right section (e.g., YKA, NDI, SUF, WB5, WRA, LRM, CMB, KVN, NUR, TNP, BW06, HFS, NAO, RSSD, KRA, CLL, PRU, EKA, KHC, GRF, SOTA, CDF, BSF, FLN, LDF, LOR, LBF, GRR, SSF, SMF, AVF, LPF, LPL, LPG, BNH, MAF, TCF, LSF, MFF, CAF, LFF).

Table listing stations in the bottom middle right section (e.g., YKA, NDI, SUF, WB5, WRA, LRM, CMB, KVN, NUR, TNP, BW06, HFS, NAO, RSSD, KRA, CLL, PRU, EKA, KHC, GRF, SOTA, CDF, BSF, FLN, LDF, LOR, LBF, GRR, SSF, SMF, AVF, LPF, LPL, LPG, BNH, MAF, TCF, LSF, MFF, CAF, LFF).

Table listing stations in the bottom right section (e.g., YKA, NDI, SUF, WB5, WRA, LRM, CMB, KVN, NUR, TNP, BW06, HFS, NAO, RSSD, KRA, CLL, PRU, EKA, KHC, GRF, SOTA, CDF, BSF, FLN, LDF, LOR, LBF, GRR, SSF, SMF, AVF, LPF, LPL, LPG, BNH, MAF, TCF, LSF, MFF, CAF, LFF).

S.D. = 0.8 on 62 of 63 obs.

* JUN 10, 1990 16h 18m 02.71±0.77s 53.044 N ± 16.2km 170.995 E ± 8.5km DEPTH = 33.0km (normal) 4.9mb (4 obs.)

NEAR ISLANDS, ALEUTIAN ISLANDS (5)

Table listing stations in Near Islands, Aleutian Islands (e.g., YKA, NDI, SUF, WB5, WRA, LRM, CMB, KVN, NUR, TNP, BW06, HFS, NAO, RSSD, KRA, CLL, PRU, EKA, KHC, GRF, SOTA, CDF, BSF, FLN, LDF, LOR, LBF, GRR, SSF, SMF, AVF, LPF, LPL, LPG, BNH, MAF, TCF, LSF, MFF, CAF, LFF).

SMY 1.91 98 eP 18 33.40 -0.1
 IMA 21.76 40 eP 22 53.00 0.0
 SOD 56.97 344 eP 27 47.00 0.4
 SUF 61.31 342 iP 28 16.80 0.0
 0.5s 5.80nm 5.0mb
 NUR 63.64 342 eP 28 31.00 -1.2
 GUN 65.38 284 P 28 44.60 0.2
 NAO 65.38 349 P 28 43.20 -0.3
 0.6s 5.80nm 4.9mb
 HFS 65.71 348 eP 28 44.70 -0.9
 0.4s 8.60nm 5.2mb
 PKI 65.90 284 P 28 47.60 -0.1
 GKN 66.03 285 P 28 48.00 -0.3
 EKA 71.88 356 Pd 29 24.30 0.5
 0.7s 3.60nm 4.5mb
 KHC 76.42 345 eP 29 51.00 0.8
 ZST 76.72 342 eP 29 52.70 0.9
 S.D. = 0.7 on 13 of 13 obs.

JUN 10, 1990 16h 57m 40.28 ± 2.40s
 44.093 N ± 19.2km 7.740 E ± 8.6km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.5 (LDG). MD 1.6 (STR).

AUTN 0.25 247 Pg 57 45.51 -0.1
 Sg 57 49.30
 SBF 0.32 224 Pg 57 46.40 -0.5
 Sg 57 50.30
 TOUF 0.36 258 Pg 57 47.94 0.1
 Sg 57 52.08
 REVF 0.44 217 Pg 57 49.58 0.3
 Sg 57 56.04
 FRF 0.95 236 Pg 57 58.40 0.0
 Sg 58 10.00
 LMR 1.17 230 Pg 58 02.80 0.7
 Sg 58 16.80
 LRG 1.19 238 Pg 58 02.00 -0.4
 Sg 58 18.00
 LPG 1.57 334 Pg 58 12.00 3.5X
 LPL 1.59 334 Pg 58 12.40 3.6X
 PGF 1.80 149 Pn 58 11.60 0.0
 Sn 58 33.20
 S.D. = 0.4 on 8 of 10 obs.

JUN 10, 1990 17h 50m 19.33 ± 0.57s
 43.992 N ± 4.4km 7.671 E ± 4.8km
 DEPTH = 10.0km (geophysicist)
 NEAR SOUTH COAST OF FRANCE (379)
 ML 2.6 (LDG). MD 1.8 (STR).

AUTN 0.18 271 Pg 50 22.74 -0.7
 SBF 0.21 233 Pg 50 24.20 0.2
 Sg 50 28.20
 AURF 0.27 247 Pg 50 24.91 -0.1
 TOUF 0.31 274 Pg 50 25.04 -0.7
 Sg 50 29.56
 REVF 0.33 221 Pg 50 26.96 0.7
 MVIF 0.39 256 Pg 50 27.44 0.1
 Sg 50 32.97
 DOI 0.60 329 P 50 30.60 -0.8
 eSg 50 38.40
 CKI 0.62 45 P 50 31.50 -0.2
 eSg 50 40.40
 FRF 0.86 240 Pg 50 35.60 -0.3
 Sg 50 47.50
 LMR 1.07 232 Pg 50 39.60 0.2
 Sg 50 54.00
 LRG 1.09 241 Pg 50 40.20 0.4
 Sg 50 55.00
 LPG 1.64 337 Pg 50 49.40 0.8
 LPL 1.66 337 Pg 50 50.00 1.1
 Sg 51 13.60
 PGF 1.74 146 Pn 50 49.30 -0.5
 Sn 51 10.00
 S.D. = 0.7 on 14 of 14 obs.

JUN 10, 1990 19h 36m 10.65 ± 0.50s
 52.818 N ± 5.6km 131.935 W ± 7.7km
 DEPTH = 10.0km (geophysicist)
 4.6mb (24 obs.) 3.7Msz (1 obs.)
 QUEEN CHARLOTTE ISLANDS REGION (22)

BNAB 1.03 49 P 36 32.00 1.9
 S 36 49.00
 MSTB 1.19 355 P 36 33.70 0.8

NDB 1.29 333 Pc 36 33.50 -1.1
 RUB 1.80 32 P 36 42.10 0.1
 BBB 2.42 104 P 36 49.50 -1.3
 S 37 28.00
 PHC 3.51 125 P 37 02.52 -3.7
 EDB 4.22 132 P 37 14.26 -2.1
 SIT 4.68 337 eP 37 20.40 -2.5
 GDR 4.79 127 P 37 22.40 -2.1
 CBB 4.97 122 P 37 24.62 -2.4
 BTB 5.25 127 P 37 29.50 -1.6
 BMW 8.49 135 eP 38 18.00 1.4
 PNT 8.51 109 P 38 20.00 3.2
 1.2s 8.00nm 4.9mb
 HYT 8.59 341 P 38 16.00 -1.9
 LON 8.93 129 eP 38 22.80 0.2
 NEW 10.47 110 eP 38 43.70 -0.1
 EDM 11.20 81 eP 38 53.50 -0.3
 PMR 12.77 320 eP 39 17.10 2.3
 SES 13.20 92 P 39 22.00 1.3
 YKA 13.37 37 P 39 23.10 0.4
 WDC 13.82 149 ePc 39 38.20 9.5X
 MIN 14.34 146 e(P) 39 42.00 6.3X
 LRM 14.48 111 eP 39 38.60 0.9
 ORV 15.08 147 e(P) 39 47.80 2.5
 SVW 15.28 312 eP 39 51.60 3.8X
 1.2s 50.60nm 4.8mb
 INK 15.56 358 eP 39 52.00 0.7
 TTA 16.22 318 eP 40 02.20 2.3
 0.9s 36.40nm 4.5mb
 KVN 16.75 140 eP 40 09.00 2.0
 CMB 16.83 147 e(P) 40 08.80 1.1
 IMA 17.14 329 eP 40 12.80 1.2
 FFC 17.75 72 iPc 40 19.00 -0.1
 0.7s 10.00nm 4.1mb
 TNP 17.94 139 eP 40 22.50 0.7
 1.0s 4.69nm 3.6mb X
 FRI 18.00 147 e(P) 40 17.50 -4.8X
 BW06 18.01 115 eP 40 24.50 1.8
 1.2s 8.90nm 3.8mb
 DUG 18.17 126 eP 40 25.80 1.2
 ISA 19.62 146 eP 40 46.00 3.9X
 CLC 19.79 144 eP 40 44.00 0.1
 RSSD 20.34 104 eP 40 49.50 -0.2
 GSC 20.54 143 eP 40 51.00 -0.7
 SBB 20.72 145 eP 40 53.00 -0.7
 MWC 21.07 146 eP 40 56.00 -1.3
 PAS 21.10 147 eP 40 58.00 0.6
 RVR 21.51 145 eP 40 58.00 -3.6X
 GOL 22.41 115 P 41 12.10 1.2
 0.8s 2.79nm 3.8mb
 GLD 22.46 115 eP 41 13.00 1.7
 1.0s 25.00nm 4.6mb
 MBC 24.02 7 ePc 41 28.00 2.2
 0.9s 27.00nm 4.8mb
 ALQ 25.41 125 eP 41 39.00 -0.9
 1.0s 3.75nm 4.0mb
 NAO 62.87 19 P 46 37.40 -1.1
 0.9s 5.30nm 4.7mb
 HFS 64.07 18 eP 46 44.90 -1.5
 0.8s 5.50nm 4.8mb
 Z 19s 0.05um 3.7Msz
 LR 13 05.00

UPP 65.04 16 iP 46 51.60 -1.0
 FLN 70.73 32 eP 47 27.60 -0.7
 0.6s 3.60nm 4.7mb
 GRR 70.94 32 eP 47 29.30 -0.3
 0.6s 3.60nm 4.7mb
 LDF 70.99 32 eP 47 29.30 -0.7
 0.6s 3.60nm 4.7mb
 LPF 71.19 32 eP 47 30.90 -0.2
 0.8s 8.05nm 4.9mb
 KSP 73.29 20 eP 47 43.50 -0.1
 LOR 73.40 30 eP 47 43.80 -0.5
 0.8s 4.05nm 4.5mb
 SSF 73.48 30 eP 47 44.40 -0.3
 0.8s 4.05nm 4.5mb
 LSF 73.59 32 eP 47 44.80 -0.6
 0.8s 5.35nm 4.6mb
 AVF 73.68 30 eP 47 45.20 -0.6
 0.7s 2.75nm 4.4mb
 LBF 73.69 30 eP 47 45.40 -0.6
 0.6s 2.70nm 4.5mb
 TCF 73.77 31 eP 47 46.00 -0.4
 0.8s 4.05nm 4.5mb
 MAF 73.94 31 eP 47 47.20 -0.2
 0.8s 4.70nm 4.6mb
 SMF 73.96 30 eP 47 46.90 -0.6

KHC 0.8s 4.05nm 4.5mb
 RJF 74.30 23 P 47 50.00 0.5
 74.43 32 eP 47 49.60 -0.6
 0.8s 5.35nm 4.6mb
 KRA 74.78 18 eP 47 52.10 -0.1
 SPC 75.66 18 eP 47 57.80 0.3
 ZST 75.97 21 eP 48 05.40 6.4X
 VRI 80.00 15 ePd 48 21.50 0.3
 S.D. = 1.4 on 62 of 69 obs.

JUN 10, 1990 19h 42m 46.32 ± 0.43s
 60.128 N ± 6.2km 141.088 W ± 3.4km
 DEPTH = 10.0km (geophysicist)
 4.0mb (3 obs.)
 SOUTHEASTERN ALASKA (19)
 ML 3.7 (PMR).

PCA 0.42 94 iP 42 54.13 -0.7
 YKU 0.90 129 eP 43 05.20 1.7
 BALM 1.10 326 iP 43 05.60 -1.5
 eS 43 20.49
 RAGM 1.81 280 eP 43 18.73 1.0
 HYT 1.91 67 P 43 20.30 1.0
 SGAM 2.08 282 iP 43 22.58 0.8
 Sn 43 47.95
 CVA 2.36 282 eP 43 25.98 0.4
 HIN 2.71 278 eP 43 29.25 -1.5
 KLU 2.74 302 eP 43 31.38 0.2
 VLZ 2.77 294 eP 43 31.57 0.0
 VZW 2.85 291 iP 43 32.65 -0.1
 Sn 44 06.69
 WHC 3.03 76 P 43 35.70 0.5
 GLI 3.07 287 eP 43 35.25 -0.4
 TOA 3.17 311 eP 43 38.30 1.1
 SDG 3.23 320 eP 43 39.41 1.4
 SCM 3.49 302 eP 43 42.14 0.4
 PAX 3.54 326 eP 43 42.60 0.1
 DOT 3.80 340 eP 43 46.87 0.6
 SML 3.91 299 eP 43 48.21 0.4
 DWY 4.02 10 P 43 50.20 1.0
 GHO 4.16 297 eP 43 52.03 0.7
 PLRM 4.20 294 eP 43 52.58 0.8
 PMR 4.20 294 eP 43 52.80 1.1
 SIT 4.31 133 eP 43 52.80 -0.5
 PMS 4.31 289 eP 43 53.48 0.0
 PWA 4.56 293 eP 43 57.80 1.0
 SLKM 4.56 279 eP 43 56.03 -0.9
 SUA 4.92 290 eP 44 01.94 -0.1
 CNPM 5.16 268 eP 44 05.45 0.1
 SKT 5.40 295 eP 44 07.79 -1.1
 CGLM 5.49 287 eP 44 08.23 -2.0
 FBA 5.71 330 eP 44 14.30 1.2
 SVW 7.22 284 eP 44 33.80 -0.6
 TTA 7.66 298 eP 44 39.70 -1.0
 IMA 8.24 322 eP 44 49.00 0.2
 MBC 17.86 17 eP 46 54.50 -1.4
 1.0s 4.00nm 3.5mb
 NAO 57.44 16 P 52 35.00 -1.9
 0.8s 1.40nm 4.0mb
 HFS 58.48 14 eP 52 42.20 -2.0
 0.4s 0.70nm 4.1mb
 S.D. = 1.0 on 38 of 38 obs.

JUN 10, 1990 19h 57m 36.35 ± 0.47s
 39.176 N ± 3.7km 23.673 E ± 4.8km
 DEPTH = 8.1 ± 3.1 km
 AEGEAN SEA (365)
 ML 3.3 (ATH).

NEO 0.37 291 iPg 57 43.00 -0.9
 PAIG 0.75 0 ePc 57 52.00 0.8
 eS 58 03.40
 AGG 1.06 262 ePd 57 55.00 -1.5
 eS 58 09.00
 OUR 1.18 12 ePc 57 58.70 0.2
 ATH 1.20 178 ePb 57 58.60 -0.3
 eSb 58 15.00
 THE 1.55 340 eP 58 03.90 -0.4
 eS 58 23.40
 SDH 1.66 352 iPc 58 05.60 -0.3
 SRS 1.94 358 iPc 58 09.10 -0.8
 iS 58 32.70
 GRG 2.03 332 eP 58 10.40 -0.8
 eS 58 35.00
 KNT 2.07 344 ePc 58 11.70 -0.1
 eS 58 36.90
 VAY 2.30 339 iPn 58 15.60 0.5

JUN 10, 1990 19h 57m 36.35 ± 0.47s
 39.176 N ± 3.7km 23.673 E ± 4.8km
 DEPTH = 8.1 ± 3.1 km
 AEGEAN SEA (365)
 ML 3.3 (ATH).

PCA 0.42 94 iP 42 54.13 -0.7
 YKU 0.90 129 eP 43 05.20 1.7
 BALM 1.10 326 iP 43 05.60 -1.5
 eS 43 20.49
 RAGM 1.81 280 eP 43 18.73 1.0
 HYT 1.91 67 P 43 20.30 1.0
 SGAM 2.08 282 iP 43 22.58 0.8
 Sn 43 47.95
 CVA 2.36 282 eP 43 25.98 0.4
 HIN 2.71 278 eP 43 29.25 -1.5
 KLU 2.74 302 eP 43 31.38 0.2
 VLZ 2.77 294 eP 43 31.57 0.0
 VZW 2.85 291 iP 43 32.65 -0.1
 Sn 44 06.69
 WHC 3.03 76 P 43 35.70 0.5
 GLI 3.07 287 eP 43 35.25 -0.4
 TOA 3.17 311 eP 43 38.30 1.1
 SDG 3.23 320 eP 43 39.41 1.4
 SCM 3.49 302 eP 43 42.14 0.4
 PAX 3.54 326 eP 43 42.60 0.1
 DOT 3.80 340 eP 43 46.87 0.6
 SML 3.91 299 eP 43 48.21 0.4
 DWY 4.02 10 P 43 50.20 1.0
 GHO 4.16 297 eP 43 52.03 0.7
 PLRM 4.20 294 eP 43 52.58 0.8
 PMR 4.20 294 eP 43 52.80 1.1
 SIT 4.31 133 eP 43 52.80 -0.5
 PMS 4.31 289 eP 43 53.48 0.0
 PWA 4.56 293 eP 43 57.80 1.0
 SLKM 4.56 279 eP 43 56.03 -0.9
 SUA 4.92 290 eP 44 01.94 -0.1
 CNPM 5.16 268 eP 44 05.45 0.1
 SKT 5.40 295 eP 44 07.79 -1.1
 CGLM 5.49 287 eP 44 08.23 -2.0
 FBA 5.71 330 eP 44 14.30 1.2
 SVW 7.22 284 eP 44 33.80 -0.6
 TTA 7.66 298 eP 44 39.70 -1.0
 IMA 8.24 322 eP 44 49.00 0.2
 MBC 17.86 17 eP 46 54.50 -1.4
 1.0s 4.00nm 3.5mb
 NAO 57.44 16 P 52 35.00 -1.9
 0.8s 1.40nm 4.0mb
 HFS 58.48 14 eP 52 42.20 -2.0
 0.4s 0.70nm 4.1mb
 S.D. = 1.0 on 38 of 38 obs.

NEO 0.37 291 iPg 57 43.00 -0.9
 PAIG 0.75 0 ePc 57 52.00 0.8
 eS 58 03.40
 AGG 1.06 262 ePd 57 55.00 -1.5
 eS 58 09.00
 OUR 1.18 12 ePc 57 58.70 0.2
 ATH 1.20 178 ePb 57 58.60 -0.3
 eSb 58 15.00
 THE 1.55 340 eP 58 03.90 -0.4
 eS 58 23.40
 SDH 1.66 352 iPc 58 05.60 -0.3
 SRS 1.94 358 iPc 58 09.10 -0.8
 iS 58 32.70
 GRG 2.03 332 eP 58 10.40 -0.8
 eS 58 35.00
 KNT 2.07 344 ePc 58 11.70 -0.1
 eS 58 36.90
 VAY 2.30 339 iPn 58 15.60 0.5

10d 19h

Table with columns: Station ID, Time, Location, Magnitude, Depth, etc. Includes stations like MMB, ITM, RDO, VLI, VLS, RZN, KDZ, SMG, OHR, PLD, KEK, SKO, VTS, MLR.

S.D. = 0.8 on 22 of 25 obs.

JUN 10, 1990 20h 11m 35.15 ± 1.16s 32.073 S ± 8.9km 71.637 W ± 15.8km DEPTH = 64.6 ± 13.9 km 4.7mb (1 obs.)

NEAR COAST OF CENTRAL CHILE (135)

Table with columns: Station ID, Time, Location, Magnitude, Depth, etc. Includes stations like ROCH, JACH, PEL, LCCH, SAN, TACH, FCH, PCH, LNV, CHCH, ZOBD, SIV, BAO, LKO.

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

JUN 10, 1990 22h 00m 55.81 ± 1.88s 23.774 S ± 7.8km 32.723 E ± 19.2km DEPTH = 10.0km (geophysicist)

MOZAMBIQUE (581)

ML 3.5 (PRE). mbLg 3.5 (BUL).

Table with columns: Station ID, Time, Location, Magnitude, Depth, etc. Includes stations like BFT, JOZ, SLR, BUL, KSR, PRY, BFS, SEK, SWZ, KRI, FRS, WIN.

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

JUN 10, 1990 22h 38m 59.94 ± 0.82s 39.351 N ± 10.3km 20.623 E ± 8.7km DEPTH = 10.0km (geophysicist)

GREECE-ALBANIA BORDER REGION (392)

Table with columns: Station ID, Time, Location, Magnitude, Depth, etc. Includes stations like KEK, EVR, ITM, PLG, VLI.

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

JUN 11, 1990 00h 01m 54.40 ± 0.47s 7.236 S ± 7.4km 118.896 W ± 9.9km DEPTH = 33.0km (normal) 5.2mb (22 obs.)

EAST CENTRAL PACIFIC OCEAN (693)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 14S, 21C

Centroid Location:

Origin Time 00:01:58.2 1.2

Lat 6.98S 0.11 Lon 119.19W 0.07

Dep 15.4 5.8 Half-duration 1.5

Moment Tensor; Scale 10**16 Nm

Mrr= 3.45 0.27 Mtt=-2.24 0.36

Mff=-1.21 0.39 Mrf= 0.00 0.00

Mrf= 0.00 0.00 Mtt=-1.00 0.29

Principal Axes:

T Val= 3.45 Plg=90 Azm=180

N -0.60 0 239

P -2.85 0 149

Best Double Couple: Md=3.2*10**16

NP1: Strike=239 Dip=45 Slip= 90

NP2: 59 45 90

Table with columns: Station ID, Time, Location, Magnitude, Depth, etc. Includes stations like BAR, GLA, PLM, MWC, SYP, SBB, ABL, BCH, GSC, CLC, PRI, ALO, ANMO, SAO, MHC, ARN, CMB, TNP, MSU, MEO, KVN, ORV, ARE, UYO, DUG, WDC, BMG, TUL, LNO, GOL, GLD, OLY, ZOBO.

Table with columns: Station ID, Time, Location, Magnitude, Depth, etc. Includes stations like LPB, BW06, HPI, FVM, CCH, RSSD, RSCP, LRM, BMW.

Table with columns: Station ID, Time, Location, Magnitude, Depth, etc. Includes stations like GBTN, LON, TKL, JSC, GMW, NEW, PNT, NAV, BLA.

Table with columns: Station ID, Time, Location, Magnitude, Depth, etc. Includes stations like SIV, SES, CVL, NA2, EDM, TXNY, FFC, RSNY, WNY, SIT.

Table with columns: Station ID, Time, Location, Magnitude, Depth, etc. Includes stations like HBVT, BNH, YKA, BAO, CBM, PMR, TTA, SCH, INK, ADK.

Table with columns: Station ID, Time, Location, Magnitude, Depth, etc. Includes stations like IMA, FRB, SPA, MBC, BCAA, BUL, CHG, DSI, PRN, TAB, MBH, GUN, PKI, DMN, GKN, MAIO.

Table with columns: Station ID, Time, Location, Magnitude, Depth, etc. Includes stations like NDI.

S.D. = 1.1 on 85 of 88 obs.

JUN 11, 1990 00h 49m 09.49 ± 0.28s 32.334 N ± 4.5km 48.722 E ± 3.4km DEPTH = 15.6km (4 depth phases) 4.6mb (31 obs.) 3.8Msz (2 obs.)

WESTERN IRAN (347)

Table with columns: Station ID, Time, Location, Magnitude, Depth, etc. Includes stations like KER, TEH, TAB.

MJMA 7.12 206 ePd 50 55.10 -0.5
 QASM 7.70 217 ePc 51 03.50 -0.2
 RYD 7.81 194 ePc 51 06.00 0.8
 UQSK 8.57 222 ePd 51 15.70 -0.2
 MAIO 9.75 63 eP 51 33.00 0.9

 HRI 10.97 278 eS 54 08.00
 PRNI 11.90 264 eP 52 01.00 -0.5
 BADA 12.43 256 eP 52 08.30 -0.3
 QUE 15.74 93 eP 52 51.50 -0.8
 e(S) 58 05.60
 YLV 17.58 303 eP 53 15.00 -0.4
 RZN 21.27 303 eP 53 58.00 0.6
 ISR 21.43 313 ePc 54 00.50 1.6
 VRI 21.68 315 ePd 54 01.50 0.1
 MMB 21.94 302 eP 54 03.00 -1.1
 MLR 21.97 313 iPc 54 06.00 1.6
 CMP 22.43 312 ePc 54 08.00 -0.9
 VAY 22.71 301 iP 54 14.80 3.2X
 SKO 23.69 302 iP 54 23.80 2.6
 OHR 23.96 299 eP 54 25.30 1.5
 1.4s 117.00nm 5.3mb
 e 54 31.00 20km
 e 54 45.50
 BZS 24.76 310 eP 54 33.50 2.0
 ORI 27.05 296 P 55 03.00 10.0X
 TDS 27.10 295 P 54 57.50 4.2X
 SPC 27.14 317 eP 54 57.80 4.0X
 SOI 27.21 291 P 55 01.50 7.1X
 ATN 27.68 291 P 55 03.00 4.3X
 SRO 27.71 313 e(P) 55 03.30 4.5X
 KRA 27.72 318 ePd 54 59.20 0.3
 MGR 27.74 296 P 55 03.50 4.3X
 ZST 28.61 313 eP 55 19.70 12.8X
 VOY 30.00 307 e(P) 55 19.20 -0.4
 ARV 30.13 302 P 55 21.60 0.9
 KSP 30.16 317 eP 55 20.50 -0.3
 ASS 30.27 301 P 55 23.50 1.6
 PGD 31.07 302 P 55 31.00 1.9
 KHC 31.12 313 Pd 55 29.00 -0.4
 GKN 31.26 88 P 55 31.80 0.9
 CTI 31.53 307 P 55 32.50 -0.6
 BRG 31.53 316 eP 55 32.70 -0.2
 DMN 31.77 89 P 55 36.40 0.8
 BDI 31.90 303 P 55 36.50 0.2
 PKI 32.04 89 P 55 38.70 0.7
 SOTA 32.09 309 iPc 55 37.00 -1.0
 0.7s 13.50nm 5.0mb
 i 55 40.40 12km
 i 55 49.30
 i 55 53.80
 e 56 18.00
 i 58 27.80
 SAL 32.21 305 P 55 38.00 -0.8
 CLL 32.24 317 iPd 55 39.20 0.1
 1.1s 12.00nm 4.7mb
 NUR 32.33 338 eP 55 40.00 0.3
 GUN 32.33 88 P 55 41.70 1.1
 WMO 32.47 58 eP 55 42.00 0.7
 OSS 32.68 307 eP 55 43.60 0.4
 GRF 32.76 313 iPc 55 43.40 -0.3
 1.0s 13.00nm 4.8mb
 Z 20s 0.05um 3.2msz
 MDI 32.80 306 P 55 47.80 15km
 BOB 32.82 304 P 55 43.00 -1.0
 SAX 32.82 304 P 55 45.50 1.2
 TMA 33.34 308 eP 55 48.50 -0.5
 VAI 33.43 306 eP 55 49.10 -0.7
 VAI 33.46 306 P 55 48.00 -1.8
 LLS 33.49 307 eP 55 49.70 -0.6
 SUF 33.63 341 iP 55 51.00 0.0
 0.5s 5.80nm 4.8mb
 SLE 34.01 309 eP 55 53.90 -0.7
 ZLA 34.02 308 eP 55 54.20 -0.5
 SBF 34.14 302 eP 55 55.80 0.0
 0.8s 18.80nm 5.1mb
 DIX 34.43 306 eP 55 58.10 -0.4
 BNI 34.81 304 Pd 56 01.50 -0.1
 LPG 34.81 305 eP 56 01.50 -0.3
 0.8s 10.75nm 4.8mb
 LPL 34.82 305 eP 56 01.50 -0.3
 1.0s 20.00nm 5.0mb
 BSF 35.15 309 eP 56 03.40 -1.0
 0.8s 5.35nm 4.5mb
 HAU 35.47 309 eP 56 06.00 -1.1
 0.6s 3.60nm 4.4mb
 WTS 36.11 316 eP 56 13.50 1.1

HFS 36.12 331 eP 56 11.80 -0.6
 0.8s 22.50nm 5.1mb
 MEM 36.24 313 P 56 15.60 2.1
 ENN 36.33 313 e(P) 56 19.00 4.8X
 LBF 36.90 307 eP 56 18.40 -0.8
 0.7s 3.30nm 4.2mb
 SMF 36.96 306 eP 56 18.90 -0.7
 0.6s 9.90nm 4.8mb
 DOU 37.01 312 P 56 20.40 0.4
 1.0s 16.70nm 4.8mb
 LOR 37.02 307 eP 56 19.20 -0.9
 0.6s 2.25nm 4.1mb
 SSF 37.23 307 eP 56 21.30 -0.6
 0.8s 9.40nm 4.6mb
 AVF 37.31 306 eP 56 21.80 -0.7
 0.6s 4.50nm 4.4mb
 SOD 37.41 346 iP 56 21.30 -1.8
 BGF 37.63 306 eP 56 24.60 -0.7
 0.8s 4.05nm 4.3mb
 NAO 37.69 331 P 56 24.60 -0.9
 1.0s 8.70nm 4.5mb
 MAF 37.79 305 eP 56 26.50 -0.1
 0.8s 4.05nm 4.3mb
 TCF 38.04 305 eP 56 28.60 -0.2
 0.8s 3.35nm 4.2mb
 BCAA 39.60 232 iPc 56 43.00 0.9
 1.1s 11.00nm 4.5mb
 LDF 39.83 309 eP 56 42.60 -1.0
 1.0s 10.00nm 4.5mb
 FLN 40.08 309 eP 56 44.70 -1.0
 0.8s 8.05nm 4.5mb
 GRR 40.30 308 eP 56 46.70 -0.8
 0.9s 14.75nm 4.7mb
 LPF 40.39 308 eP 56 47.60 -0.6
 1.0s 12.00nm 4.6mb
 LZH 45.23 69 P 57 27.80 -0.2
 Z 20s 0.50um 4.4msz
 BTO 49.11 62 eP 57 59.00 0.7
 TIY 51.57 65 eP 58 16.40 -0.6
 Z 14s 0.50um 4.7mszX
 BJI 53.82 61 eP 58 34.00 0.4
 TIA 55.59 66 eP 58 46.30 -0.3
 KIC 55.98 254 (P) 58 51.00 1.3
 CNZ 59.48 55 eP 59 12.60 -1.3
 MBC 71.42 357 eP 00 30.00 -0.4
 1.0s 5.00nm 4.6mb
 FRB 72.29 335 ePd 00 33.00 -2.7
 INK 79.65 1 eP 01 17.00 -0.1
 IMA 80.40 9 ePc 01 21.70 0.3
 1.4s 14.50nm 4.8mb
 FBA 82.23 7 ePc 01 21.50 -9.3X
 YKA 84.56 352 eP 01 42.20 -0.5
 0.9s 2.80nm 4.5mb
 PMR 85.29 8 eP 01 46.70 0.3
 1.4s 26.20nm 5.3mb
 S.D. = 1.0 on 91 of 102 obs.

 ? JUN 11, 1990 01h 11m 22.88±6.97s
 42.808 N ±62.2km 0.180 E ±57.1km
 DEPTH = 10.0km (geophysicist)
 PYRENEES (378)
 ML 2.7 (LDG).
 EPF 0.25 28 P 11 28.20 -0.1
 11 33.30
 LPO 2.01 21 Pg 12 00.20 3.0X
 12 09.80
 LFF 2.17 11 Pg 12 02.60 3.1X
 12 33.00
 CAF 2.52 32 Pn 12 03.70 -0.8
 12 45.10
 RJF 2.68 21 Pn 12 06.50 -0.3
 12 50.80
 LSF 3.57 15 Pn 12 19.20 -0.3
 13 17.80
 MAF 3.82 26 Pn 12 28.60 5.7X
 BGF 4.20 26 Pn 12 29.80 1.4
 S.D. = 1.2 on 5 of 8 obs.

 & JUN 11, 1990 01h 38m 14.80s
 37.290 N 121.640 W
 DEPTH = 6.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 3.3 (BRK).
 Mo=1.3*10**14 Nm (BRK). Felt at

San Jose.
 MHC 0.05 359 iPd 38 16.30 -0.2
 ARN 0.10 55 iPd 38 17.20 0.0
 SAO 0.55 163 iPd 38 25.80 0.0
 BKS 0.75 321 iPc 38 28.90 -0.9
 iS 38 40.40
 ZSP 0.82 323 iPc 38 30.50 -0.5
 iS 38 43.40
 CMB 1.24 53 iPc 38 37.50 -0.8
 iS 38 53.50
 i 38 54.90
 PRI 1.39 145 eP 38 59.60 -1.2
 NWRM 1.53 320 eP 38 40.30 -2.3
 PHAM 1.76 145 eP 38 47.00 0.9
 KVN 3.30 57 eP 39 07.00 -1.2
 10 obs. associated
 ? JUN 11, 1990 02h 31m 18.18±2.91s
 37.533 N ±22.8km 20.660 E ±23.0km
 DEPTH = 33.0km (normal)
 IONIAN SEA (399)
 ML 3.8 (ATH).
 VLS 0.65 355 eP 31 32.60 1.7
 eS 31 42.50
 ITM 1.07 109 iPc 31 37.00 0.1
 VLI 1.99 113 eP 31 54.80 4.6X
 KEK 2.28 343 eP 31 53.00 -1.2
 ATH 2.46 79 eP 31 59.60 2.7X
 NEO 2.68 48 eP 32 00.20 0.2
 VAY 4.06 21 ePn 32 26.40 6.9X
 RZN 5.20 36 eP 32 35.00 -0.9
 S.D. = 1.6 on 5 of 8 obs.

 ? JUN 11, 1990 02h 39m 32.04±0.98s
 46.396 N ±10.5km 2.496 E ±7.7km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 1.4 (LDG).
 MAF 0.18 164 Pg 39 36.00 -0.1
 Sg 39 38.40
 TCF 0.23 241 Pg 39 37.40 0.5
 Sg 39 40.70
 BGF 0.29 56 Pg 39 38.20 0.1
 Sg 39 42.20
 LSF 0.69 258 Pg 39 45.20 -0.4
 Sg 39 54.40
 S.D. = 0.7 on 4 of 4 obs.

 * JUN 11, 1990 02h 42m 52.33±1.77s
 10.468 S ±32.5km 124.467 E ±10.8km
 DEPTH = 92.5 ± 38.2 km
 4.6mb (1 obs.)
 TIMOR (289)
 KUPT 0.90 290 iPc 43 11.50 0.1
 eS 43 32.50
 KNA 6.72 142 eP 44 31.10 1.0
 0.2s 50.00nm 5.6mb X
 eS 45 48.00
 MTN 6.94 111 iPd 44 32.50 -0.7
 eS 45 50.00
 MBL 11.53 202 eP 45 35.70 0.3
 eS 47 42.00
 WB5 13.37 136 eP 45 58.20 -1.4
 eS 48 24.40
 WRA 13.39 136 Pd 45 59.50 -0.4
 0.2s 4.60nm 4.6mb
 NANU 14.76 214 eP 46 17.00 -0.6
 OIS 17.69 126 iPd 46 56.00 1.7
 eS 50 05.00
 S.D. = 1.3 on 8 of 8 obs.

 % JUN 11, 1990 02h 51m 04.40±0.65s
 10.045 N ±8.7km 69.400 W ±7.1km
 DEPTH = 10.0km (geophysicist)
 VENEZUELA (101)
 TOV 0.46 237 IPgd 51 13.60 -0.3
 iSg 51 21.10
 FISA 1.21 3 eP 51 27.00 0.0
 MORO 1.35 52 iP 51 29.40 0.1
 SDV 1.68 227 ePn 51 34.40 0.3
 iSn 51 59.30
 OLLA 2.56 90 eP 51 46.60 -0.1

11d 02h

eS 52 18.70
 LLAV 2.59 80 iP 51 47.00 -0.1
 eS 52 19.60
 S.D. = 0.3 on 6 of 6 obs.

* JUN 11, 1990 03h 02m 18.73± 1.69s
 5.160 S ±15.2km 152.018 E ±17.1km
 DEPTH = 59.3 ± 12.1 km
 4.4mb (3 obs.)
 NEW BRITAIN REGION (192)

RAB 0.97 9 eP 02 36.50 0.0
 GUA 19.87 339 eP 06 52.70 4.8X
 WB5 22.57 228 eP 07 15.20 0.1
 WRA 22.62 228 Pd 07 15.70 0.0
 1.0s 7.70nm 4.1mb
 GUN 71.64 301 P 13 36.90 0.1
 PKI 71.95 301 P 13 38.60 -0.1
 DMN 72.22 301 P 13 40.40 0.2
 GKN 72.72 301 P 13 42.80 -0.2
 SVW 77.45 23 ePc 14 10.10 1.0
 TTA 78.39 22 ePc 14 14.70 0.4
 PMR 80.33 25 eP 14 24.30 -0.4
 0.7s 4.30nm 4.5mb
 IMA 81.05 20 ePc 14 29.00 0.4
 0.9s 6.20nm 4.5mb
 TOA 81.81 25 eP 14 33.30 0.8
 FBA 82.51 22 eP 14 35.20 -0.8
 INK 89.07 21 eP 15 07.00 -1.3
 S.D. = 0.7 on 14 of 15 obs.

* JUN 11, 1990 03h 46m 50.80± 1.12s
 21.577 S ±11.9km 68.423 W ±13.6km
 DEPTH = 108.8 ± 17.5 km
 4.3mb (1 obs.)
 CHILE-BOLIVIA BORDER REGION (124)

ANT 2.81 221 eP 47 35.00 0.1
 IS 48 04.30
 CCH 4.69 28 P 48 06.00 5.1X
 LPB 5.03 4 P 48 07.00 1.4
 ZOBO 5.29 3 P 48 14.60 5.3X
 i 48 15.00
 ARE 5.86 330 eP 48 16.00 -0.9
 IS 49 18.00
 SIV 8.91 53 P 48 57.40 -0.9
 BAO 20.24 76 eP 51 20.00 0.3
 YKA 91.41 340 eP 59 45.20 0.0
 0.6s 1.10nm 4.3mb
 S.D. = 1.4 on 6 of 8 obs.

JUN 11, 1990 04h 52m 52.05± 0.64s
 27.394 N ± 8.3km 111.260 W ± 6.0km
 DEPTH = 10.0km (geophysicist)
 4.8mb (19 obs.)
 GULF OF CALIFORNIA (49)

GLA 6.43 332 eP 54 25.00 -4.1X
 e 55 36.00
 e 56 19.00
 BAR 7.05 320 eP 54 37.00 -0.9
 PLM 7.66 322 eP 54 45.00 -1.5
 e 57 04.00
 RVR 8.42 323 eP 54 56.00 -1.0
 e 57 15.00
 ALO 8.57 27 eP 54 59.50 0.2
 ANMO 8.58 27 eP 55 00.00 0.6
 MWC 8.97 321 eP 55 06.00 1.2
 SBB 9.19 324 eP 55 06.00 -1.7
 e 57 43.00
 GSC 9.20 330 eP 55 05.00 -2.8
 e 57 42.00
 e 57 59.00
 CLC 9.98 329 eP 55 18.00 -0.6
 e 58 27.00
 ISA 10.28 325 eP 55 22.00 -0.8
 BCH 10.82 318 eP 55 30.20 0.0
 MSU 11.12 356 eP 55 34.50 0.2
 TNP 11.77 336 eP 55 42.30 -0.9
 PRI 11.83 320 ePc 55 43.90 0.0
 KVN 12.95 336 eP 55 59.40 0.4
 CMB 13.09 326 eP 56 00.00 0.1
 MEO 13.12 53 eP 56 01.00 0.0
 ARN 13.18 321 eP 56 01.70 -0.1
 GOL 13.21 20 eP 56 03.50 0.9
 MHC 13.23 321 ePc 55 53.00 -9.7X
 e 56 03.30

ORV 14.82 328 eP 56 26.00 2.6
 BW06 15.41 5 eP 56 31.50 0.2
 1.0s 4.50nm 3.7mb X
 TUL 15.66 53 eP 56 33.00 -1.3
 0.7s 2.40nm 3.5mb X
 eLg 01 02.40
 LNO 15.66 53 e(P) 56 28.90 -5.3X
 eLg 01 02.20

UYO 15.93 61 eP 56 35.50 -2.4
 WDC 16.12 328 ePc 56 42.00 1.8
 MPI 16.35 355 eP 56 44.50 1.0
 RSSD 17.68 17 eP 56 59.70 -0.4
 LRM 18.42 357 eP 57 10.20 0.9
 OLY 18.70 60 eP 57 11.30 -1.2
 VGB 19.61 340 eP 57 24.00 0.5
 FVM 20.43 54 eP 57 30.90 -1.2
 LON 21.04 339 eP 57 37.80 -0.6
 NEW 21.33 349 eP 57 39.80 -1.5
 1.0s 40.00nm 4.8mb
 PNT 22.82 346 eP 57 58.00 1.9
 SES 22.97 0 eP 57 57.00 -0.6
 1.4s 89.00nm 5.1mb
 RSCP 23.34 63 eP 57 59.50 -1.8
 EDM 25.85 357 iPc 58 24.40 -0.8
 FFC 28.14 11 eP 58 49.00 2.9
 0.9s 10.00nm 4.6mb
 YKA 35.17 357 eP 59 45.60 -2.1
 1.2s 2.50nm 4.0mb
 INK 43.05 348 ePd 00 52.80 -0.4
 FBA 44.05 339 eP 01 01.00 -0.4
 1.0s 5.60nm 4.4mb
 SVW 44.86 331 eP 01 07.90 -0.2
 TTA 45.91 333 eP 01 16.10 -0.3
 IMA 46.72 338 eP 01 22.00 -0.8
 1.1s 7.80nm 4.7mb
 MBC 49.08 357 eP 01 41.50 0.6
 1.0s 6.00nm 4.6mb
 ZOBO 60.28 131 P 03 03.00 -1.0
 LPB 60.49 131 eP 03 03.00 -2.2
 SIV 65.02 125 P i 03 34.70 -0.2
 03 39.00
 HFS 81.88 24 eP 05 17.10 4.4X
 1.1s 9.70nm 4.8mb
 FLN 82.27 39 eP 05 16.00 1.1
 0.8s 5.35nm 4.7mb
 SUF 84.00 18 eP 05 24.00 0.4
 LSF 84.81 40 eP 05 29.30 1.4
 0.8s 6.70nm 4.9mb
 TCF 85.17 40 eP 05 31.00 1.2
 0.8s 5.35nm 4.8mb
 NUR 85.31 20 eP 05 30.00 -0.2
 RJF 85.34 41 eP 05 32.10 1.5
 1.0s 10.00nm 5.0mb
 BGF 85.37 39 eP 05 32.00 1.2
 0.8s 8.85nm 5.0mb
 MAF 85.41 40 eP 05 32.60 1.6
 0.8s 5.35nm 4.8mb
 SSF 85.45 39 eP 05 32.40 1.3
 0.9s 8.20nm 4.9mb
 AVF 85.52 39 eP 05 32.50 1.0
 0.8s 4.05nm 4.7mb
 LOR 85.52 38 eP 05 32.80 1.3
 1.0s 14.00nm 5.1mb
 LBF 85.75 38 eP 05 34.10 1.4
 0.8s 6.70nm 4.9mb
 SMF 85.88 39 eP 05 34.20 0.9
 0.8s 6.70nm 4.9mb
 S.D. = 1.3 on 60 of 64 obs.

* JUN 11, 1990 05h 30m 13.76± 0.86s
 13.708 N ±18.0km 145.804 E ±12.6km
 DEPTH = 33.0km (normal)
 4.0mb (2 obs.)
 MARIANA ISLANDS (216)

GUA 0.88 259 iPd 30 29.50 -0.3
 eS 30 39.30
 GUMO 0.92 263 iPd 30 30.20 -0.1
 PJG 0.92 263 iPd 30 30.20 -0.1
 MAT 23.73 345 (P) 35 26.00 2.1
 WRA 35.29 199 Pd 37 09.00 1.9
 0.9s 2.90nm 4.2mb
 INK 73.91 22 eP 41 46.00 -1.0
 pP 41 58.00 40kmX
 MBC 77.94 14 eP 42 10.00 0.3
 YKA 82.34 28 eP 42 33.40 0.1
 0.8s 0.80nm 3.8mb

LRM 88.28 43 eP 43 03.80 0.2
 KIC 144.61 302 (PKP) 49 47.70 -1.9
 LIC 144.92 303 (PKP) 49 49.00 -1.2
 ZOBO 147.15 99 PKP 50 00.00 5.5X
 i 52 03.80
 LR 07 04.00
 S.D. = 1.4 on 11 of 12 obs.

* JUN 11, 1990 05h 43m 03.37± 0.46s
 7.398 S ± 7.7km 118.795 W ±11.1km
 DEPTH = 33.0km (normal)
 5.2mb (19 obs.) 5.1msz (1 obs.)
 EAST CENTRAL PACIFIC OCEAN (693)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 9S, 16C
 Centroid Location:
 Origin Time 05:43: 6.1 0.6
 Lat 7.32S 0.14 Lon 119.54W 0.07
 Dep 15.0 FIX Half-duration 1.6
 Moment Tensor; Scale 10¹⁶ Nm
 Mrr= 5.12 0.33 Mtt=-1.04 0.48
 Mff=-4.08 0.41 Mrt=-3.14 1.15
 Mrrf= 1.18 1.26 Mtf=-2.47 0.38
 Principal Axes:
 T Val= 6.84 Plq=63 Azm=205
 N -1.35 27 33
 P -5.49 3 301
 Best Double Couple: Mo=6.2*10¹⁶
 NP1: Strike= 5 Dip=48 Slip= 52
 NP2: 234 54 124

BAR 39.91 3 eP 50 37.00 0.9
 GLA 40.40 5 eP 50 41.00 0.8
 PLM 40.57 2 eP 50 43.00 1.3
 e 52 45.00
 RVR 41.19 2 eP 50 47.00 0.5
 e 52 46.00
 PAS 41.32 1 eP 50 48.00 0.4
 TPC 41.36 3 eP 50 49.00 1.0
 e 52 47.00
 MWC 41.40 1 eP 50 50.00 1.5
 SBB 41.87 1 eP 50 53.00 0.8
 ABL 42.02 359 P 50 54.20 0.6
 BCH 42.37 358 P 50 57.30 0.9
 GSC 42.51 2 eP 50 58.00 0.5
 ISA 42.83 0 eP 51 01.00 0.9
 CLC 43.00 1 eP 51 02.00 0.6
 PRI 43.34 358 e(P) 51 05.70 1.4
 ALQ 43.69 15 ePc 51 08.00 0.7
 1.1s 21.84nm 4.8mb
 ANMO 43.70 15 iP 51 08.30 1.0
 1.3s 30.05nm 4.9mb
 iPcP 52 53.40
 SAO 44.00 357 eP 51 09.90 0.4
 MHC 44.58 357 eP 51 15.10 0.8
 ARN 44.59 357 P 51 15.00 0.7
 CMB 45.22 358 iPc 51 19.90 0.6
 ePcP 53 00.60
 eLR 04 08.00
 TNP 45.27 2 iP 51 20.00 0.1
 0.9s 13.02nm 4.8mb
 iPcP 52 59.80
 MSU 46.09 7 iP 51 27.30 0.9
 iPcP 53 02.90
 MEO 46.10 23 iPd 51 26.30 0.0
 KVN 46.22 1 iPc 51 27.40 0.1
 iPcP 53 02.40
 ORV 46.78 357 eP 51 31.50 -0.1
 iPcP 53 04.50
 UYO 47.33 28 eP 51 36.20 0.2
 DUG 47.68 6 P 51 39.80 1.0
 1.1s 18.09nm 5.0mb
 WDC 47.86 356 eP 51 38.90 -1.2
 pP 53 08.20
 TUL 48.21 25 iP 51 42.80 -0.1
 1.2s 48.20nm 5.4mb
 LNO 48.21 25 iP 51 43.20 0.4
 GOL 48.48 14 P 51 45.00 -0.2
 1.0s 15.00nm 5.0mb
 GLD 48.56 14 P 51 46.30 0.5
 1.3s 91.95nm 5.6mb
 LPB 50.30 105 eP 51 57.00 -2.8
 Z 20s 1.77um 5.1msz
 LR 07 15.00
 BW06 50.64 9 P 52 00.20 -1.5
 1.4s 14.79nm 4.8mb

Table of seismic data for stations HPI, CCH, FVM, VGB, RSCP, RSSD, GBTN, LON, TKL, JSC, MCW, PGC, PNT, SIV, SES, CVL, NA2, CBN, EDM, FFC, RSNY, WNY, SIT, HBVT, BNH, BAO, YKA, TOA, PMR, SVW, FBA, SCH, TTA, INK, ADK, IMA, FRB, SPA, MBC, KHC, TIY, LZH, WMQ, BUL, CHG, KSH, DSI, PRNI, MBH, GUN, PKI, DMN, GKN, MAIO, NDI, and others. Includes station name, time, amplitude, depth, and S.D. values.

Table of seismic data for stations YKA, NEW, FFC, LRM, KVN, TNP, BW06, SYP, CLC, SBB, GSC, MSU, RSSD, RVR, TPC, PLM, GLA, GOL, GLD, ANMO, ALQ, CHTO, PWA, PLRM, PMR, GH0, SUA, PMS, CUT, SML, SKT, SGLM, HUR, NCG, SCM, CRP, SPU, NKA, SLKM, GLI, SEW, TOA, VZW, KTH, VLZ, KLU, NNL, MCK, RED, SDG, HIN, PAX, CVA, CNPM, SGAM, DDM, WRH. Includes station name, time, amplitude, depth, and S.D. values.

Table of seismic data for stations NEA, SVW, RAGM, MID, CCB, AUL, AUE, TTA, FBA, DOT, GLM, CDD, TGL, WAX, BALM, KDC, IMA, YKA, JUN 11, 1990 07h 39m 56.46± 4.07s, CHILE-ARGENTINA BORDER REGION (127), RTRS, RTLL, CFA, RTCV, JUN 11, 1990 08h 20m 12.93± 1.44s, GUATEMALA (70), TPX, SCX, OXX, UYO, HBF, PRM, OLY, JSC, RSCP, MEO, GBTN, TKL, TUL, LNO, FVM, ALO, ANMO, GOL, RSSD, BW06, HPI, LRM, ZOBO, FFC, PNT, SCH, YKA, FRB, INK, MBC, ADK, WB5, WRA. Includes station name, time, amplitude, depth, and S.D. values.

11d 08h

GBA 149.87 24 PKPc 39 36.60 -0.5
 0.9s 12.40nm
 BSI 159.76 344 ePKP 39 56.50 6.2X
 S.D. = 1.3 on 33 of 35 obs.

? JUN 11, 1990 08h 21m 48.19± 3.58s
 6.020 S ±39.7km 145.133 E ±16.6km
 DEPTH = 76.6 ± 25.8 km
 3.9mb (1 obs.)
 PAPUA NEW GUINEA (202)

LAT 1.96 109 iPc 22 20.00 0.0
 eS 22 45.00
 KDB 3.97 150 eP 22 48.00 0.0
 WB5 17.30 216 eP 25 46.20 -0.1
 eS 29 06.10
 WRA 17.37 216 Pc 25 47.20 0.1
 0.5s 4.20nm 3.9mb
 BRS 22.46 162 iPc 26 42.00 0.0
 S.D. = 0.1 on 5 of 5 obs.

JUN 11, 1990 08h 28m 10.86± 0.30s
 57.182 N ± 7.7km 158.030 E ± 4.8km
 DEPTH = 64.6km (2 depth phases)
 4.9mb (40 obs.)
 KAMCHATKA (217)

ASAJ 16.26 223 P 31 58.70 2.4
 MRRJ 18.30 223 eP 32 13.10 -8.4X
 MDJ 21.71 247 eP 32 56.00 -1.8
 1.2s 100.00nm 5.1mb
 TTA 23.22 57 eP 33 12.50 -0.1
 SVW 23.69 61 eP 33 18.40 1.3
 IMA 24.00 48 eP 33 19.30 -0.8
 1.6s 96.80nm 5.0mb
 CN2 24.39 251 Pc 33 22.00 -2.0
 Z 16s 0.90um 4.4MsZ
 N 14s 1.00um
 E 14s 0.30um

MAT 24.53 221 (P) 33 24.00 -1.3
 1.0s 12.00nm 4.3mb
 Z 20s 1.06um 4.3MsZ
 eS 37 49.00
 FBA 26.55 51 eP 33 42.20 -1.7
 SNY 26.77 250 eP 33 44.00 -2.0
 Z 15s 1.20um 4.6MsZ
 N 15s 1.10um
 E 15s 0.80um

DL2 29.94 248 eP 34 17.50 2.9X
 INK 31.46 41 eP 34 27.00 -0.7
 BJI 31.92 256 eP 34 32.00 0.1
 1.3s 19.00nm 4.8mb
 Z 14s 1.17um 4.7MsZ
 N 14s 0.60um

MBC 33.79 25 eP 34 49.50 1.6
 0.9s 5.00nm 4.4mb
 HHC 33.80 261 eP 34 47.60 -0.9
 Z 14s 1.60um 4.9MsZ
 N 14s 0.50um
 E 15s 0.80um

TIA 34.29 250 eP 34 51.70 -0.9
 BTO 34.81 263 eP 34 58.00 0.9
 N 16s 1.40um
 E 16s 0.90um

TIY 35.60 257 eP 35 04.50 0.6
 Z 12s 1.45um 5.0MsZ
 N 12s 0.80um

NJ2 36.73 244 Pd 35 12.60 -0.7
 Z 14s 0.40um 4.4MsZ
 N 13s 0.60um
 E 12s 0.30um

WHN 40.19 247 eP 35 42.20 0.1
 Z 12s 0.60um 4.7MsZ
 N 13s 0.50um
 E 12s 0.50um

XAN 40.24 256 P 35 43.00 0.4
 YKA 41.02 45 eP 35 47.60 -1.0
 0.8s 6.10nm 4.4mb
 GTA 41.19 270 P 35 48.20 -2.2
 1.0s 30.00nm 5.0mb
 Z 16s 1.80um 5.0MsZ
 E 14s 1.00um

LZH 41.41 263 Pd 35 53.30 0.9
 1.5s 47.00nm 5.1mb

Z 15s 1.10um 4.8MsZ
 N 13s 0.60um
 E 14s 0.70um

WMO 44.66 284 P 36 18.60 0.1
 Z 14s 0.90um 4.8MsZ
 N 15s 0.80um
 E 15s 0.80um

CD2 45.41 258 P 36 25.80 1.2
 PNT 47.03 62 eP 36 35.00 -2.2
 GYA 47.43 252 P 36 41.80 1.1
 N 20s 1.00um
 E 20s 1.00um

SES 50.30 56 eP 37 04.00 1.6
 KMI 50.56 255 Pc 37 05.50 0.6
 FFC 51.07 47 iPc 37 07.00 -1.1
 1.1s 27.00nm 5.2mb

WDC 51.72 73 ePc 37 15.90 2.7
 ORV 53.01 73 P 37 24.40 1.5
 KSH 53.90 288 P 37 31.30 1.7
 MHC 54.59 75 eP 37 36.90 2.2
 ARN 54.64 75 P 37 34.70 -0.2

CMB 54.72 73 eP 37 34.30 -1.3
 SUF 54.77 335 eP 37 34.00 -1.5
 0.7s 18.70nm 5.2mb
 KVN 55.14 71 P 37 38.20 -0.6
 TNP 56.33 71 P 37 46.70 -0.6
 1.2s 29.57nm 5.2mb

BW06 56.59 62 P 37 49.20 0.0
 1.3s 9.84nm 4.7mb
 DUG 56.95 66 P 37 51.40 -0.3
 NUR 57.06 335 iP 37 52.00 0.1
 0.7s 28.00nm 5.5mb

GUN 57.44 272 P 37 55.60 0.2
 CHG 57.73 254 ePc 37 58.00 0.8
 1.0s 12.50nm 5.0mb
 CLC 57.86 73 eP 37 58.00 0.1
 PKI 57.96 272 P 37 59.40 0.3
 1.0s 60.00nm 5.7mb

GKN 58.04 273 P 37 59.90 0.5
 DMN 58.09 272 P 38 00.50 0.6
 1.2s 93.00nm 5.8mb

RSDD 58.15 57 P 37 59.00 -1.1
 MSU 58.56 67 P 38 02.90 -0.1
 SBB 58.61 74 eP 38 02.00 -1.2
 GSC 58.66 73 eP 38 03.00 -0.6
 MWC 58.84 74 eP 38 08.00 3.0X
 NAO 59.55 342 P 38 06.70 -2.6
 0.9s 4.70nm 4.6mb

HFS 59.69 340 eP 38 10.00 -0.3
 0.9s 7.30nm 4.8mb
 TPC 59.98 73 eP 38 15.00 2.3
 PLM 60.14 74 eP 38 14.00 0.1

BAR 60.77 74 eP 38 21.00 3.0X
 GOL 60.97 61 P 38 20.00 0.4
 GLA 61.44 73 eP 38 22.00 -0.6
 ANMO 64.20 65 P 38 43.30 2.3
 0.9s 4.46nm 4.4mb

ALO 64.20 65 eP 38 39.00 -2.0
 0.9s 4.41nm 4.4mb
 EKA 66.81 348 Pc 38 58.50 1.4
 0.8s 6.80nm 4.7mb

KRA 67.67 332 eP 39 03.50 0.9
 KSP 67.82 335 eP 39 05.00 1.4
 CLL 68.11 337 iPc 39 06.70 1.4
 1.3s 47.00nm 5.3mb

MEO 68.13 60 eP 39 04.50 -1.3
 LNO 68.49 57 eP 39 10.50 2.7
 TUL 68.49 57 eP 39 09.00 1.0
 1.2s 15.00nm 4.8mb

PRU 69.02 336 Pc 39 13.00 2.1
 e 39 32.70 74km
 MOX 69.02 338 eP 39 13.00 2.0
 1.2s 28.00nm 5.1mb

WNY 69.89 37 P 39 14.00 -2.4
 GRF 70.01 338 eP 39 17.50 0.5
 Z 20s 0.10um 4.1MsZ
 e 39 19.70 7kmX

KHC 70.04 336 P 39 18.00 0.8
 1.2s 20.00nm 4.9mb
 e 39 33.30 55km

HBVT 70.18 36 P 39 16.90 -1.2
 WET 70.18 336 iPc 39 20.40 2.3
 1.3s 38.00nm 5.2mb
 OLY 70.77 54 P 39 22.90 1.0
 CDF 72.01 340 eP 39 28.30 -0.9
 0.8s 10.75nm 4.8mb

HAU 72.57 340 eP 39 31.40 -1.0

BSF 72.66 340 eP 39 31.90 -1.1
 FLN 72.93 345 eP 39 33.00 -1.4
 0.7s 9.90nm 4.9mb

LDF 73.04 345 eP 39 33.80 -1.3
 GRR 73.35 345 eP 39 35.80 -1.1
 0.7s 8.80nm 4.8mb

CTI 73.38 336 P 39 37.50 0.2
 LOR 73.72 342 eP 39 38.10 -1.0
 0.7s 8.80nm 4.8mb

LPF 73.72 346 eP 39 38.20 -0.8
 LBF 73.97 342 eP 39 39.40 -1.2
 SSF 73.98 342 eP 39 39.60 -1.0
 0.7s 7.15nm 4.7mb

VAI 74.16 338 P 39 44.00 2.4
 AVF 74.27 342 eP 39 41.30 -0.9
 0.9s 16.40nm 5.0mb

SMF 74.33 342 eP 39 41.50 -1.1
 BGF 74.58 343 eP 39 43.20 -0.9
 0.7s 8.25nm 4.8mb

LPL 74.90 340 eP 39 46.30 0.1
 0.9s 21.30nm 5.1mb
 LPG 74.91 340 eP 39 46.70 0.3
 0.8s 22.85nm 5.2mb

TCF 74.94 343 eP 39 45.30 -0.9
 0.7s 3.85nm 4.4mb
 MAF 74.95 343 eP 39 45.80 -0.4
 0.8s 8.05nm 4.7mb

BOB 75.07 337 P 39 50.00 3.0X
 LSF 75.09 343 eP 39 46.20 -0.8
 MME 75.35 336 P 39 52.20 3.4X
 BNI 75.35 339 P 39 51.30 2.6

PGD 75.43 336 Pc 39 52.40 3.2X
 BDI 75.50 336 P 39 52.00 2.5
 ARV 75.50 335 P 39 51.50 2.1
 ASS 75.97 335 P 39 52.00 -0.1
 CAF 76.29 343 eP 39 53.70 -0.2
 LFF 76.49 344 eP 39 54.70 -0.2
 LPO 76.67 343 eP 39 55.80 -0.1
 LRG 76.95 339 eP 39 57.30 -0.2
 0.8s 14.80nm 5.0mb

LMR 77.04 339 eP 39 57.80 -0.2
 0.8s 8.05nm 4.7mb

WRA 79.35 203 Pd 40 09.60 -1.3
 0.7s 3.20nm 4.4mb

MBH 81.06 313 eP 40 19.00 -0.9
 S.D. = 1.3 on 105 of 112 obs.

* JUN 11, 1990 08h 32m 19.71± 1.76s
 2.139 N ±14.2km 97.557 E ±15.3km
 DEPTH = 33.0km (normal)
 NORTHERN SUMATRA (706)

PSI 1.47 68 iPc 32 45.50 1.3
 eS 32 52.50
 TSI 1.69 37 iPc 32 48.50 1.2
 e(S) 33 30.00

PPI 3.84 132 eP 33 17.50 -0.4
 BSI 4.03 326 eP 33 21.00 0.4
 IPM 4.23 55 ePc 33 22.90 -0.6
 0.5s 22.50nm

SNQ 5.86 31 eP 33 44.50 -2.1
 S.D. = 1.7 on 6 of 6 obs.

& JUN 11, 1990 09h 07m 26.40s
 38.358 N 122.393 W
 DEPTH = 8.0km
 NORTHERN CALIFORNIA (36)

<BRK>. ML 3.5 (BRK).
 Mo=3.4*10**15 Nm (BRK). Felt (V)
 at Sonoma; (IV) at Angwin, El
 Verano, Glen Ellen, Napa,
 Rutherford and Yountville; (III)
 at Boyes Hot Springs, Oakville,
 Penngrrove and Saint Helena. Felt
 in parts of Lake, Napa, Solano
 and Sonoma Counties.

NWRM 0.40 284 iPc 07 34.40 -0.1
 ZSP 0.43 165 iPd 07 35.10 0.1
 BKS 0.50 165 iPd 07 36.10 -0.3
 iS 07 44.40
 MHC 1.18 149 ePc 07 47.50 -1.1
 ARN 1.22 146 eP 07 47.70 -1.5
 ORV 1.38 30 eP 07 48.70 -3.3
 CMB 1.61 101 eP 07 53.00 -2.3
 SAO 1.76 154 iPc 07 55.50 -1.9
 LTCM 1.86 6 eP 07 55.30 -3.5

WDC 2.22 357 eP 08 01.50 -2.6
 FHC 2.73 334 e(P) 08 22.00 10.6
 KVN 3.43 77 eP 08 19.00 -2.4
 TNP 4.08 92 eP 08 28.50 -2.2
 13 obs. associated

JUN 11, 1990 14h 48m 00.27± 1.32s
 23.687 N ± 8.3km 121.554 E ± 12.5km
 DEPTH = 5.0km (geophysicist)

TAIWAN (244)
 ML 3.9 (BJI).

TWD 0.39 5 iPd 48 08.40 0.2
 eS 48 13.80
 TWF1 0.41 215 iPc 48 08.30 -0.2
 eS 48 14.50
 TWO 0.88 312 eP 48 18.00 0.4
 eS 48 31.40
 TWC 0.96 16 eP 48 19.00 0.1
 eS 48 33.50
 TWK 1.07 247 ePc 48 21.30 0.5
 ANP 1.49 359 iP 48 29.50 1.7
 eS 48 55.00
 QZH 2.98 295 Pn 48 48.40 -0.6
 Sg 49 38.50
 SSE 7.39 358 eP 49 50.00 -1.3
 NJ2 8.67 345 Pd 50 08.30 -1.0
 S 51 46.50
 GYA 13.77 285 P 51 19.00 0.2
 E 10s 0.40um
 S 53 50.80
 TIY 16.02 333 eP 51 52.00 4.1X
 Z 10s 0.50um
 S.D. = 1.0 on 10 of 11 obs.

* JUN 11, 1990 14h 58m 48.96± 1.31s
 36.328 N ± 12.7km 28.128 E ± 8.3km
 DEPTH = 10.0km (geophysicist)
 DODECANESE ISLANDS (369)

YER 0.81 9 iPg 59 06.50 1.7
 iSg 59 16.50
 KSL 1.20 100 iPbc 59 11.00 -0.2
 CIN 1.27 359 ePg 59 11.00 -1.5
 iSg 59 27.00
 ELL 1.49 73 iPn 59 15.50 -0.5
 SMG 1.72 324 ePb 59 17.60 -1.5
 IZM 2.18 342 ePn 59 20.00 -5.8X
 BCK 2.27 59 ePn 59 27.00 -0.2
 KHL 2.28 29 iPn 59 28.50 1.2
 VLI 4.20 277 ePn 59 55.40 1.0
 S.D. = 1.4 on 8 of 9 obs.

? JUN 11, 1990 16h 46m 21.48± 2.51s
 17.347 N ± 20.8km 99.421 W ± 16.7km
 DEPTH = 10.0km (geophysicist)
 GUERRERO, MEXICO (59)

III 1.02 358 iPd 46 39.44 -1.5
 iS 46 57.00
 PPM 1.87 24 eP 46 54.83 0.6
 eS 47 19.94
 IIT 1.97 32 eP 46 55.56 0.0
 (S) 47 34.54
 IJJ 2.39 353 iPc 47 03.35 1.6
 eS 47 40.00
 OXX 2.59 95 eP 47 04.09 -0.3
 eS 47 40.23
 MRX 2.88 325 (P) 47 08.00 -0.3
 (S) 47 52.00
 LVVM 3.69 49 (P) 47 09.34 -10.4X
 (S) 48 25.46
 S.D. = 1.3 on 6 of 7 obs.

* JUN 11, 1990 17h 49m 42.09± 2.03s
 6.777 S ± 12.3km 106.420 E ± 11.8km
 DEPTH = 106.0 ± 18.3 km
 4.8mb (4 obs.)
 JAVA (277)

TRT 6.23 99 ePd 51 13.50 0.4
 KGM 9.27 340 eP 51 55.50 1.0
 NANU 17.98 152 eP 53 39.00 -7.8X
 eS 56 36.00
 NNT 20.36 341 eP 54 13.50 1.2
 KNA 23.64 114 eP 54 44.70 0.0
 MTN 25.07 106 eP 54 57.00 -1.4

CHC 26.47 344 eP 55 09.50 -0.1
 WB5 30.09 118 eP 55 43.00 -0.8
 WRA 30.09 119 Pc 55 42.90 -0.9
 GYA 33.04 0 P 56 10.60 1.0
 QIS 34.94 116 iPc 56 25.70 -0.2
 GBA 35.19 305 Pc 56 27.50 -0.5
 0.5s 7.00nm 4.8mb
 PKI 39.74 330 P 57 05.00 -1.3
 GUN 39.79 331 P 57 05.60 -1.2
 0.5s 31.00nm 5.4mb
 DMN 39.92 330 P 57 06.60 -1.1
 GKN 40.48 330 P 57 10.80 -1.4
 POO 40.80 309 eP 57 09.00 -5.8X
 TIY 44.61 7 eP 57 46.00 0.4
 NDI 45.11 323 iPd 57 48.00 -1.6
 GTA 46.36 353 P 58 00.00 0.5
 0.8s 10.00nm 4.7mb
 BRS 48.46 121 iPd 58 17.20 1.2
 CN2 53.21 17 eP 58 51.40 -0.1
 eP 59 10.00 73kmX
 PcP 59 59.00
 MAIO 61.39 318 iPc 59 47.40 -2.1
 TAB 71.41 314 eP 00 53.00 0.0
 KRI 75.47 254 iPc 01 19.00 2.0
 BUL 76.28 251 iPd 01 20.00 -1.5
 MBH 77.55 302 iPc 01 27.00 -1.2
 PRNI 77.61 303 eP 01 29.50 0.9
 DSI 77.62 304 eP 01 30.00 1.5
 SUF 91.53 333 iP 02 39.10 1.5
 0.4s 2.40nm 4.8mb
 NUR 91.81 331 eP 02 39.00 0.1
 TRI 96.65 315 eP 03 02.90 1.5
 i 03 12.10
 YKA 116.85 20 ePKP 08 15.60 0.2
 0.6s 0.90nm
 BAO 146.26 229 ePKP 09 13.50 1.8
 SIV 154.21 209 PKP 09 32.10 8.6X
 S.D. = 1.2 on 32 of 35 obs.

JUN 11, 1990 18h 02m 50.74± 0.70s
 45.830 N ± 6.7km 14.683 E ± 5.7km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)
 MD 2.8 (LJU). Felt in the Dobro
 Polje-Videm area.

CEY 0.20 243 ePgd 02 55.40 0.2
 eSg 02 58.40
 LJU 0.24 334 iPgd 02 55.20 -0.6
 eSg 02 58.50
 VBY 0.52 129 ePg 03 01.10 -0.1
 iSg 03 09.40
 RIY 0.53 203 ePg 03 01.20 -0.2
 iSg 03 09.50
 VOY 0.59 290 ePgc 03 01.80 -0.9
 eSg 03 10.30
 PTJ 0.89 85 eP 03 08.10 0.2
 FVI 1.53 301 P 03 19.50 1.5
 eSg 03 41.00
 S.D. = 0.9 on 7 of 7 obs.

? JUN 11, 1990 18h 35m 38.44± 1.26s
 36.046 N ± 10.8km 100.152 E ± 15.3km
 DEPTH = 33.0km (normal)
 QINGHAI PROVINCE, CHINA (325)
 ML 4.0 (BJI).

LZH 2.99 88 ePn 36 24.00 -0.8
 Pg 36 27.00
 Sn 36 59.50
 GTA 3.37 356 Pn 36 29.80 -0.3
 Z 10s 0.40um
 Pg 36 34.10
 Sn 37 07.40
 CD2 5.94 149 Pg 37 23.20 16.7X
 BTO 8.99 57 eP 37 50.00 1.0
 WMO 12.31 313 eP 38 27.50 -6.8X
 S 40 51.00
 CHG 17.20 184 eP 39 38.00 0.2
 S.D. = 1.3 on 4 of 6 obs.

* JUN 11, 1990 18h 57m 00.65± 0.90s
 27.720 N ± 10.2km 103.702 E ± 10.7km
 DEPTH = 10.0km (geophysicist)
 YUNNAN PROVINCE, CHINA (318)
 ML 3.2 (BJI).

KMI 2.73 199 Pnc 57 45.00 -0.5
 1.5s 100.00nm
 Sn 58 19.50
 GYA 2.92 115 Pn 57 43.00 -5.2X
 CD2 3.18 1 Pn 57 50.60 -1.1
 Pg 57 57.30
 Sg 58 38.00
 XAN 7.73 34 Pn 58 56.40 0.4
 Sn 00 26.50
 Sg 01 06.50
 WHN 9.73 71 eP 59 24.00 0.4
 LSA 11.20 283 Pc 59 45.00 0.8
 S.D. = 1.1 on 5 of 6 obs.

? JUN 11, 1990 19h 23m 31.86± 0.99s
 41.778 N ± 21.7km 12.817 E ± 6.7km
 DEPTH = 10.0km (geophysicist)

SOUTHERN ITALY (390)
 RDP 0.08 255 P 23 33.80 -0.6
 eSg 23 35.20
 RMP 0.09 291 P 23 35.00 0.5
 eSg 23 37.00
 AZI 0.51 65 P 23 41.70 -0.4
 eSg 23 48.00
 SDI 0.75 95 P 23 47.00 0.4
 eSg 23 57.50
 S.D. = 1.0 on 4 of 4 obs.

? JUN 11, 1990 20h 25m 19.73± 4.62s
 30.458 S ± 57.1km 68.797 W ± 67.0km
 DEPTH = 33.0km (normal)

SAN JUAN PROVINCE, ARGENTINA (137)
 RTRS 0.64 296 iPd 25 32.30 0.0
 RTLL 0.91 162 iPd 25 36.10 -0.2
 eS 25 50.00
 CFA 1.24 157 iPc 25 41.00 0.1
 RTCV 1.42 171 e(P) 25 43.50 0.1
 S.D. = 0.2 on 4 of 4 obs.

% JUN 11, 1990 20h 28m 44.61± 1.05s
 34.921 S ± 12.2km 144.416 E ± 10.1km
 DEPTH = 10.0km (geophysicist)
 NEW SOUTH WALES, AUSTRALIA (601)
 ML 3.2 (BFD), 3.1 (CNB), 2.6
 (TOO).

BFD 2.71 213 iPc 29 28.60 -0.4
 ePn 29 37.00
 eSn 29 59.00
 eSg 30 10.00
 TOO 2.78 162 e(P) 29 31.00 0.9
 eS 30 04.00
 BWA 3.34 83 iPc 29 39.50 1.6
 CAN 3.78 97 iPd 29 41.90 -2.3
 i 29 44.50
 eSn 30 21.60
 iSg 30 38.20
 STK 3.84 321 eP 29 45.10 0.0
 0.3s 7.00nm
 eS 30 28.40
 CNB 4.07 97 iPd 29 48.60 0.2
 eSg 29 53.00
 eSn 30 29.00
 eSg 30 47.00
 S.D. = 1.7 on 6 of 6 obs.

JUN 11, 1990 21h 50m 42.49± 0.35s
 44.838 N ± 3.5km 9.673 E ± 3.3km
 DEPTH = 26.4 ± 3.0 km
 NORTHERN ITALY (545)
 ML 3.0 (LDG), 2.7 (VIE).

BOB 0.18 246 Pd 50 47.50 -0.6
 eSg 50 52.00
 PCP 0.86 250 P 51 00.95 2.2
 S 51 13.36
 MDI 0.94 2 P 50 59.50 -0.4
 eSg 51 13.00
 SAL 0.98 38 P 50 59.50 -0.9
 eSg 51 13.70
 BDI 1.02 139 P 51 01.50 0.4
 eSg 51 16.50
 CKI 1.08 248 P 51 02.70 0.8
 eSn 51 19.00
 VAI 1.21 329 P 51 04.50 0.8

Table with columns: Station (CAN, GYA, CHG, CHTO, KMI, TIY, BJI, SNY, LZH, CN2, GTA, WMQ), Time (36.47, 37.24, 37.83, 1.0s, 12.00nm, 4.8mb), and other parameters. Includes S.D. = 1.1 on 19 of 21 obs.

JUN 11, 1990 23h 27m 12.62 ± 0.78s
31.244 S ± 9.0km 70.070 W ± 10.7km
DEPTH = 128.5 ± 14.5 km
CHILE-ARGENTINA BORDER REGION (127)

Table with columns: Station (RTRS, ZON, RTLL, RTCV, JACH, CFA, ROCH, PEL, FCH, PCH, TACH, LCCH, CHCH, LNV, SIV), Time (1.19, 1.23, 1.37, 1.45, 1.50, 1.61, 1.90, 1.96, 2.09, 2.40, 2.51, 2.56, 2.73, 2.93, 17.26), and other parameters. Includes S.D. = 0.8 on 15 of 15 obs.

JUN 12, 1990 00h 21m 27.93 ± 0.90s
39.947 N ± 7.1km 28.980 E ± 7.7km
DEPTH = 5.0km (geophysicist)
TURKEY (366)

Table with columns: Station (IZI, KCT, YLV, EDC, HRT, ISK, ALT, KHL), Time (0.54, 0.57, 0.69, 0.94, 1.02, 1.12, 1.25, 1.68), and other parameters. Includes S.D. = 1.5 on 8 of 8 obs.

JUN 12, 1990 00h 43m 38.96 ± 0.76s
34.380 N ± 9.2km 26.697 E ± 6.4km
DEPTH = 33.0km (normol)
CRETE (370)

Table with columns: Station (VAM, KSL, SMG, CIN, ELL, VLI, BCK, ITM, DSI, PRNI, MBH), Time (2.29, 2.93, 3.32, 3.41, 3.53, 3.85, 4.41, 4.78, 7.81, 8.09, 8.33), and other parameters. Includes S.D. = 1.0 on 10 of 11 obs.

* JUN 12, 1990 01h 59m 14.05 ± 1.63s
36.639 N ± 18.0km 71.396 E ± 13.7km
DEPTH = 202.8 ± 21.4 km
4.3mb (7 obs.)
AFGHANISTAN-USSR BORDER REGION (717)

Table with columns: Station (NDI, MAIO, GKN, DMN, PKI, GUN, HYB, NUR, SUF, KEV, HFS, NAO, BCAA, MBC, INK, FBA, YKA, WB5, WRA), Time (9.32, 9.59, 14.11, 14.68, 14.91, 15.01, 20.17, 37.90, 37.97, 0.5s, 40.79, 43.15, 44.63, 58.01, 67.18, 73.72, 74.25, 81.09, 81.77, 81.80), and other parameters. Includes S.D. = 1.3 on 18 of 19 obs.

& JUN 12, 1990 02h 39m 27.01s
63.365 N 149.861 W
DEPTH = 9.5km
CENTRAL ALASKA (1)
<AGS-P>

Table with columns: Station (HUR, KTH, MCK, CUT, NEA, WRH, CCB, SKT, GHO, SML, PWA, FBA, PLRM, DDM, SCM, SUA, GLM, PAX, TOA, PMS, SDG, NCG, CGLM, SPU, DOT, KLU, GLI, SLKM), Time (0.40, 0.51, 0.55, 0.98, 1.27, 1.36, 1.57, 1.59, 1.66, 1.72, 1.72, 1.79, 1.81, 1.84, 1.93, 1.95, 1.96, 2.03, 2.12, 2.13, 2.15, 2.24, 2.24, 2.29, 2.42, 2.62, 2.62, 2.81, 2.87), and other parameters. Includes 28 obs. associated.

& JUN 12, 1990 02h 40m 06.15s
32.690 N 117.370 W
DEPTH = 12.4km
CALIFORNIA-MEXICO BORDER REGION (45)

<ECX>. MD 2.1 (ECX).

Table with columns: Station (CBX, ENX, PBX, CPBX), Time (0.71, 1.00, 1.09, 1.77), and other parameters. Includes 4 obs. associated.

? JUN 12, 1990 03h 06m 03.32 ± 4.92s
16.529 S ± 111.km 72.045 W ± 37.3km
DEPTH = 63.6 ± 12.8 km
4.4mb (3 obs.)
NEAR COAST OF PERU (115)

Table with columns: Station (ARE, ZOBO, LPB, PT03, PT06, CCH, PT08, NNA, PT10, SIV, TUL, ALO, ANMO, YKA), Time (0.54, 3.77, 3.79, 4.41, 4.93, 5.71, 6.30, 6.48, 6.51, 10.55, 56.79, 60.73, 60.73, 85.55), and other parameters. Includes S.D. = 1.7 on 8 of 14 obs.

JUN 12, 1990 04h 21m 19.48 ± 0.31s
43.982 N ± 3.0km 26.368 E ± 3.8km
DEPTH = 19.6 ± 3.4 km
3.3mb (1 obs.)
BULGARIA (359)

Felt (IV) in the Giurgiu area and (I) at Bucharest, Romania.

Table with columns: Station (BUC1, BUC, PVL, ISR, TLB, PSN, JMB, MLR, DRA, CFR, VRI, PGB, PLD, KDZ, RZN, VTS, PTT, ALN, DEV, CTT, IAS, SRS, ISK, BZS, EDC, KNT, VAY, SOH, GBZT, HRT, OUR), Time (0.44, 0.47, 1.07, 1.16, 1.34, 1.35, 1.52, 1.54, 1.67, 1.75, 1.91, 2.15, 2.24, 2.43, 2.59, 2.69, 2.95, 3.09, 3.11, 3.22, 3.32, 3.52, 3.53, 3.76, 3.80, 3.81, 3.86, 3.87, 3.92, 3.99, 4.05), and other parameters.

DEPTH = 10.0km (geophysicist)
TURKEY (366)

ISK 0.31 224 iPg 30 05.90 0.0
iSg 30 09.40
GBZT 0.51 171 ePg 30 10.00 0.3
iSg 30 16.00
HRT 0.53 153 ePg 30 10.20 0.0
eSg 30 14.90
CTT 0.71 258 iPg 30 13.40 0.1
iSg 30 22.90
IZI 0.96 174 ePg 30 17.40 -0.3
eSg 30 30.40
MLR 4.87 331 eP 31 10.00 -4.6X
S.D. = 0.3 on 5 of 6 obs.

? JUN 12, 1990 11h 01m 49.01± 0.95s
37.740 N ±14.2km 6.226 W ± 7.7km
DEPTH = 10.0km (geophysicist)

SPAIN (377)
mbLg 2.7 (MDD).

Eval 0.44 249 eP 01 58.00 0.0
eS 02 04.50
EHOR 0.78 84 eP 02 04.50 0.3
eS 02 15.50
EBAN 1.98 77 eP 02 22.50 -0.4
EPLA 2.33 3 eP 02 28.00 0.0
eS 02 55.50
S.D. = 0.5 on 4 of 4 obs.

? JUN 12, 1990 11h 12m 20.35± 3.45s
50.118 N ±48.6km 168.667 W ±17.7km
DEPTH = 33.0km (normal)
4.1mb (3 obs.)

ALEUTIAN ISLANDS REGION (16)

ADK 5.36 292 eP 13 40.00 -0.1
TTA 14.58 23 e(P) 15 46.00 0.1
INK 25.03 30 eP 17 42.00 -0.3
YKA 31.44 46 eP 18 45.80 5.4X
0.8s 0.70nm 3.6mb
NAO 69.41 0 P 23 27.20 0.8
0.6s 1.30nm 4.2mb
HFS 70.09 359 eP 23 30.10 -0.4
0.4s 1.00nm 4.2mb
S.D. = 0.7 on 5 of 6 obs.

? JUN 12, 1990 11h 12m 59.52± 0.88s
37.536 N ± 7.7km 3.920 W ± 7.8km
DEPTH = 5.0km (geophysicist)

SPAIN (377)
mbLg 2.8 (MDD).

AFC 0.41 133 ePg 13 07.90 0.1
eSg 13 14.00
EBAN 0.64 10 ePg 13 12.00 -0.3
eSg 13 20.50
EHOR 1.09 285 ePg 13 20.50 0.0
eSg 13 34.80
ENIJ 1.47 112 ePn 13 26.40 -0.3
eSn 13 46.60
EVIA 1.57 45 ePn 13 28.60 0.4
eSn 13 47.20
S.D. = 0.4 on 5 of 5 obs.

? JUN 12, 1990 11h 18m 26.03± 2.33s
6.229 S ±12.3km 30.921 E ±46.0km
DEPTH = 33.0km (normal)
4.2mb (2 obs.)

LAKE TANGANYIKA REGION (572)

LWI 4.49 332 iPc 19 32.50 -1.3
iS 20 22.40
KRI 10.61 187 ePn 21 00.00 0.9
iSn 22 58.00
iLg 24 07.50
BUL 14.01 189 iPn 21 44.20 -0.4
iSn 24 20.40
iLg 25 52.60
iLR 26 19.60
BCAO 16.28 310 iPd 22 15.30 1.3
0.8s 7.00nm 3.8mb
iS 25 01.00
Lg 26 52.50
WIN 21.02 218 eP 23 08.50 -1.1
1.0s 20.00nm 4.5mb

S 26 10.50
TOL 56.08 328 eP 28 05.00 0.6
S.D. = 1.4 on 6 of 6 obs.

JUN 12, 1990 11h 43m 04.29± 0.92s
36.175 N ± 6.4km 99.911 E ± 6.0km
DEPTH = 32.2 ± 7.7 km
4.5mb (11 obs.)

QINGHAI PROVINCE, CHINA (325)
ML 4.4 (BJI).

LZH 3.19 90 iPnd 43 52.40 -1.1
Pg 43 57.00
Sg 44 34.90
GTA 3.23 359 Pn 43 56.60 2.6
Z 10s 1.80um
Pg 44 02.20
Sn 44 35.00
Sg 44 45.00
CD2 6.15 147 Pn 44 37.00 1.6
XAN 7.69 103 Pn 44 50.60 -6.2X
Pg 45 16.30
Sn 46 15.50
Sg 46 55.00
BTO 9.08 58 eP 45 14.00 -2.2
N 10s 0.70um
E 10s 0.60um
eS 47 01.50
LSA 9.79 231 eP 45 33.00 6.7X
TIY 10.14 78 eP 45 27.00 -3.8X
MHC 10.25 59 eP 45 31.00 -1.4
Z 15s 1.30um
GYA 11.27 147 P 45 43.60 -2.7
pP 45 49.60
WMQ 12.08 313 iPd 45 57.00 -0.1
E 12s 1.30um
S 48 10.60
SHL 12.62 215 iP 46 03.50 -1.0
BJI 13.38 68 eP 46 13.00 -1.3
1.0s 10.00nm 4.7mb
Z 12s 0.66um 4.6mszx
GUN 14.46 239 P 46 28.60 -0.3
0.8s 38.00nm 5.0mb
PKI 15.00 239 P 46 35.20 -0.7
DMN 15.19 240 P 46 37.50 -0.8
GKN 15.28 242 P 46 39.00 -0.5
CHG 17.32 183 ePc 47 07.90 2.7
1.0s 58.50nm 4.7mb
SSE 18.42 100 eP 47 20.00 1.3
Z 10s 0.50um 5.0mszx
E 10s 0.20um

QIZ 19.19 150 eP 47 29.90 1.7
E 11s 0.70um
eS 50 56.00
PcP 51 53.00
SNY 19.22 66 Pc 47 28.60 0.3
NDI 20.53 255 iPd 47 43.80 1.3
CN2 20.94 61 eP 47 47.40 0.8
Z 14s 0.60um 4.1mszx
ePp 47 56.00 32kmX
MDJ 24.02 60 eP 48 19.50 2.4
GBA 30.20 228 P 49 17.00 3.0X
0.6s 2.80nm 4.2mb
HFS 57.62 324 eP 52 52.80 -0.4
0.4s 1.00nm 4.2mb
NAO 58.76 325 P 52 59.90 -1.3
0.5s 0.80nm 4.1mb
IMA 63.69 26 eP 53 34.00 -0.6
0.7s 2.50nm 4.4mb
TTA 64.37 29 eP 53 40.00 1.0
WB5 64.58 144 eP 53 58.90 18.2X
WRA 64.62 144 Pc 53 39.40 -1.6
0.6s 3.00nm 4.6mb
MBC 65.12 10 eP 53 44.00 0.4
SVW 65.45 31 eP 53 46.60 0.7
FBA 66.39 26 eP 53 52.00 0.2
0.7s 7.10nm 4.9mb
PMR 67.81 29 eP 54 00.20 -0.6
0.5s 4.60nm 4.8mb
INK 68.51 19 ePc 54 04.90 -0.2
TOA 68.63 27 ePd 54 06.70 0.6
YKA 77.82 16 eP 54 58.00 -1.6
0.9s 2.30nm 4.2mb
S.D. = 1.4 on 32 of 37 obs.

? JUN 12, 1990 11h 47m 55.19± 2.21s
38.026 N ±22.9km 23.655 E ±13.1km

DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.5 (ATH).

ATH 0.07 138 iPbc 47 57.50 -0.1
eSb 48 03.50
VLI 1.43 204 ePn 48 21.30 0.2
ITM 1.61 239 ePn 48 23.50 -0.3
VLS 2.42 275 ePn 48 35.60 0.1
S.D. = 0.4 on 4 of 4 obs.

? JUN 12, 1990 11h 53m 56.92± 3.65s
36.168 S ±29.7km 72.012 W ±22.0km
DEPTH = 33.0km (normal)

NEAR COAST OF CENTRAL CHILE (135)

LNW 2.26 13 iPc 54 32.60 -0.1
CHCH 2.49 27 iPd 54 37.00 0.9
i 55 00.80
TACH 2.66 20 iPc 54 38.50 0.1
LCCH 2.71 8 iP 54 39.00 -0.1
i 55 07.50
PCH 2.82 26 iPd 54 41.20 0.4
SAN 2.93 23 eP 54 43.00 0.0
i 55 00.00
i 55 09.00
IHA 3.15 6 eP 54 44.50 -0.8
e(S) 55 22.50
FCH 3.17 27 iPc 54 46.60 0.7
iS 55 18.50
PEL 3.21 20 iPd 54 46.50 0.3
ROCH 3.29 15 iP 54 47.50 -0.1
iS 55 20.50
JACH 3.67 19 iPc 54 52.00 -0.8
i 55 29.20
RTCV 5.17 35 ePd 55 14.50 0.3
S 56 10.00
CFA 5.53 36 e(P) 55 18.50 -0.6
eS 56 15.90
RTLL 5.66 32 iPd 55 20.30 -0.6
eS 56 19.40
RTRS 6.35 20 ePc 55 29.80 -0.9
CCH 19.42 17 eP 58 26.00 2.2
LPB 19.86 11 P 58 49.00 20.3X
ZOBO 20.12 11 P 58 31.90 0.4
SIV 22.33 29 P 58 51.50 -1.9
i 59 14.00
S.D. = 1.0 on 18 of 19 obs.

* JUN 12, 1990 13h 09m 50.02± 1.59s
35.961 N ± 6.0km 10.656 W ±14.3km
DEPTH = 33.0km (normal)

NORTH ATLANTIC OCEAN (402)
mbLg 3.5 (MDD). MD 3.5 (RBA).

Eval 3.53 62 ePn 10 44.70 0.8
eSn 11 20.00
SFS 3.63 81 eP 10 49.00 3.7X
CNIL 3.75 82 eP 10 48.00 1.1
AVE 3.77 134 iPn 10 48.00 0.8
iSn 11 23.00
i 11 26.00
PLAT 3.97 86 eP 10 51.00 0.8
OJEN 4.15 87 eP 10 53.00 0.3
EJIF 4.22 82 ePn 10 54.40 0.7
eSn 11 39.00
NKM 4.30 95 iPn 10 55.00 0.2
iSn 11 36.00
EPRU 4.49 75 ePn 10 58.00 0.5
eSn 11 44.00
EHOR 4.72 65 ePn 11 00.60 -0.1
eSn 11 48.20
IFR 5.16 117 iPn 11 05.50 -1.7
iSn 11 56.50
EPLA 5.46 40 ePn 11 11.00 -0.3
eSn 12 07.00
TIO 5.77 150 iPn 11 15.40 -0.3
iSn 12 10.50
AFC 5.86 75 ePn 11 17.00 -0.1
eSn 12 17.80
EBAN 5.92 66 ePn 11 16.80 -0.9
eSn 12 18.00
EZAM 6.36 13 ePn 11 24.80 0.9
eSn 12 30.30
TOL 6.53 51 e(Pn) 11 26.00 -0.2
eSn 12 35.00
eSb 12 47.00

MRX 3.20 317 (P) 30 16.00 0.3
 LVVM 3.28 44 (P) 30 08.79 -8.1X
 (S) 31 15.71
 S.D. = 1.6 on 5 af 9 obs.

& JUN 12, 1990 17h 55m 28.20s
 39.817 N 122.608 W
 DEPTH = 31.0km
 NORTHERN CALIFORNIA (36)
 <BRK>. ML 2.6 (BRK).

LTCM 0.54 43 eP 55 39.30 0.0
 WDC 0.76 4 iPd 55 41.60 -1.1
 iS 55 53.00
 ORV 0.89 107 ePc 55 43.90 -0.7
 eS 55 56.30
 MIN 0.93 55 ePc 55 45.10 -0.2
 eS 55 57.30
 FHC 1.44 313 e(P) 55 53.90 1.5
 KVN 3.57 101 eP 56 24.00 1.0
 6 obs. associated

? JUN 12, 1990 18h 05m 22.70± 4.29s
 31.136 S ± 13.8km 68.645 W ± 19.6km
 DEPTH = 89.9 ± 45.9 km
 SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.25 142 iPd 05 36.10 0.0
 eS 05 47.20
 RTCB 0.37 201 iPc 05 37.00 0.1
 CFA 0.58 144 eP 05 38.40 0.0
 S 05 51.70
 RTCV 0.73 173 eP 05 39.70 -0.1
 S 05 53.60
 RTBS 0.87 233 ePd 05 41.10 0.0
 (S) 05 56.00
 RTRS 1.19 324 e(P) 05 44.90 0.0
 S.D. = 0.1 on 6 af 6 obs.

* JUN 12, 1990 18h 45m 23.98± 1.09s
 6.188 S ± 12.6km 147.813 E ± 8.2km
 DEPTH = 59.4 ± 11.4 km
 4.9mb (7 obs.)
 EAST PAPUA NEW GUINEA REGION (207)

LAT 0.93 240 iPc 45 41.20 0.0
 KDB 3.33 191 iPd 46 15.30 0.6
 eS 46 58.00
 MNDI 4.13 270 eP 46 29.00 2.8
 RAB 4.77 66 iPc 46 33.60 -1.5
 0.5s 563.38nm
 OIS 16.35 208 eP 49 10.00 -1.2
 WB5 18.87 223 eP 49 40.30 -2.0
 eS 53 34.20
 WRA 18.93 223 Pd 49 40.80 -2.2
 0.5s 26.10nm 4.7mb
 RMO 20.21 178 iPd 49 57.40 0.8
 0.7s 88.00nm 5.2mb
 OLP 20.57 189 iPd 50 00.80 0.5
 KNA 20.95 241 eP 50 02.70 -1.6
 eS 51 36.00
 BRS 21.61 168 iPc 50 11.00 0.1
 i 50 17.00
 DZM 23.95 133 iPc 50 35.10 1.2
 CMS 25.24 184 eP 50 46.50 0.5
 STK 26.22 192 iPd 50 55.10 0.0
 0.7s 19.00nm 4.7mb
 BWA 28.10 179 eP 51 12.90 0.6
 CAN 29.01 178 eP 51 21.10 0.6
 MEKA 34.50 231 iPd 52 09.00 0.4
 0.5s 13.00nm 5.1mb
 COOL 35.06 222 eP 52 13.20 -0.2
 0.4s 9.00nm 5.1mb
 NANU 35.13 239 eP 52 14.00 0.0
 0.6s 14.00nm 5.1mb
 MRWA 37.76 229 iPc 52 36.50 0.4
 MUN 39.10 225 eP 52 47.50 0.2
 MAT 43.45 349 eP 53 30.00 7.2X
 1.3s 19.23nm 4.7mb
 S.D. = 1.3 on 21 of 22 obs.

JUN 12, 1990 18h 48m 56.07± 0.33s
 43.230 N ± 4.0km 0.367 W ± 3.5km
 DEPTH = 11.9 ± 3.1 km
 PYRENEES (378)
 ML 4.2 (LDG). mBkg 3.9 (MDD),
 3.7 (UCC). Felt (V) in the

Bearn-Bigarré area, France.

OGE 0.10 232 Pg 48 59.84 0.8
 JAU 0.19 180 Pg 48 58.61 -2.0
 ESCF 0.21 225 Pg 49 00.47 -0.4
 Sg 49 03.14
 ATE 0.28 240 Pg 49 02.14 0.0
 Sg 49 06.49
 MADF 0.34 256 Pg 49 04.02 0.8
 Sg 49 09.83
 LHE 0.37 211 Pg 49 02.29 -1.5
 Sg 49 06.19
 ISSF 0.37 237 Pg 49 03.72 -0.1
 Sg 49 08.79
 ELYF 0.46 263 Pg 49 06.58 1.0
 Sg 49 12.91
 BOH 0.49 255 Pg 49 06.49 0.4
 Sg 49 13.97
 EPF 0.55 111 Pn 49 06.00 -1.3
 Sg 49 14.50
 ECR1 1.69 249 iPnd 49 28.20 2.6
 eSn 49 50.40
 LPO 1.84 37 Pn 49 28.40 0.8
 Sg 49 59.70
 LFF 1.89 25 Pn 49 29.40 1.0
 Pg 49 34.40
 Sg 50 01.80
 CAF 2.44 45 Pn 49 36.10 -0.2
 Pg 49 44.20
 Sg 50 17.00
 EROQ 2.47 166 ePn 49 37.70 0.9
 eSn 50 06.10
 RJF 2.48 32 Pn 49 36.20 -0.6
 Pg 49 44.80
 Sg 50 18.50
 EBR 2.49 165 ePn 49 39.00 2.0
 eSg 50 09.50
 ETER 2.55 110 ePn 49 40.20 2.3
 eSn 50 10.60
 ETOR 2.72 208 iPnd 49 40.40 0.0
 eSn 50 09.60
 LBL 3.28 51 Pn 49 48.00 -0.2
 Sg 50 47.88
 LSF 3.31 23 Pn 49 48.00 -0.7
 Pg 49 59.40
 Sg 50 26.20
 MFF 3.38 3 Pn 49 50.60 1.0
 Pg 50 02.10
 Sg 50 45.40
 PYM 3.49 43 Pn 49 50.30 -1.0
 TCF 3.57 30 Pn 49 51.20 -1.1
 Pg 50 04.80
 Sg 50 32.00
 Sg 50 53.80
 MAF 3.65 34 Pn 49 52.40 -1.1
 Pg 50 06.40
 Sg 50 55.00
 ECHE 3.67 187 ePn 49 52.20 -1.6
 eSn 50 35.20
 GUD 3.83 229 ePn 49 56.20 0.0
 eSn 50 40.20
 PLDF 3.95 45 Pn 49 58.00 0.1
 BGF 4.04 33 Pn 49 58.10 -0.9
 Pg 50 13.30
 Sg 51 06.20
 ESEL 4.24 144 ePn 50 00.80 -1.1
 eSn 50 48.70
 TOL 4.34 221 ePn 50 02.50 -0.8
 ePg 50 23.00
 iSb 51 11.00
 iSg 51 22.00
 AVF 4.43 35 Pn 50 04.00 -0.6
 Pg 50 20.80
 Sg 51 17.60
 SMF 4.54 40 Pn 50 04.60 -1.5
 Pg 50 23.80
 Sg 51 22.30
 HYF 4.56 27 Pn 50 06.00 -0.5
 SSF 4.71 34 Pn 50 07.40 -1.2
 Pg 50 27.00
 Sg 51 27.60
 LPF 4.83 355 Pn 50 10.80 0.6
 Pg 50 29.40
 Sg 51 32.80
 LBF 4.85 38 Pn 50 09.20 -1.4
 Pg 50 28.80

Sg 51 29.40
 EVIA 4.87 200 ePn 50 09.50 -1.4
 LRG 4.91 85 Pn 50 11.00 -0.4
 LMR 5.02 86 Pn 50 12.20 -0.8
 LOR 5.02 35 Pn 50 11.60 -1.4
 Pg 50 32.00
 Sg 51 35.20
 ERUA 5.05 263 ePn 50 14.00 0.6
 eSn 51 12.50
 EMON 5.08 275 ePn 50 15.80 1.9
 eSn 51 13.30
 FRF 5.12 84 Pn 50 13.00 -1.4
 GRR 5.17 356 Pn 50 14.60 -0.4
 Sg 51 11.30
 Sg 51 42.80
 EPLA 5.32 235 ePn 50 15.70 -1.6
 eSn 51 17.30
 LDF 5.37 2 Pn 50 17.20 -0.7
 Pg 50 39.10
 Sg 51 48.40
 BNI 5.39 68 P 50 21.10 2.8
 RRL 5.42 69 P 50 24.67 5.8X
 FLN 5.53 359 Pn 50 19.80 -0.4
 Pg 50 43.00
 Sg 51 53.20
 PZZ 5.55 74 P 50 21.79 1.2
 LPL 5.58 63 Pn 50 21.80 0.7
 LPG 5.58 64 Pn 50 22.00 0.8
 DOI 5.65 74 P 50 29.00 7.0X
 STV 5.66 77 P 50 24.46 2.3
 SBF 5.71 81 Pn 50 20.20 -2.5
 ENR 5.73 77 P 50 25.90 2.8
 RSP 5.81 68 P 50 26.31 2.1
 LSD 5.84 65 P 50 27.74 3.0X
 IMI 6.04 81 P 50 32.05 4.7X
 ROB 6.06 77 P 50 30.82 3.1X
 FIN 6.29 78 P 50 34.31 3.4X
 CKI 6.37 76 P 50 44.40 12.4X
 ORX 6.44 65 P 50 38.82 5.7X
 PCP 6.57 75 P 50 35.75 0.8
 PGF 6.91 92 Pn 50 36.40 -3.4X
 DOU 7.67 25 P 50 48.30 -1.8
 iS 52 14.60
 MEM 8.57 28 iP 51 04.30 1.6
 SOTA 9.09 60 e(P) 51 18.00 7.9X
 e 52 56.00
 i 53 59.20
 i 54 08.90

S.D. = 1.4 on 59 af 69 obs.

* JUN 12, 1990 19h 07m 47.07± 0.82s
 60.794 S ± 14.4km 54.026 W ± 16.8km
 DEPTH = 10.0km (geophysicist)
 5.0mb (4 obs.)

SOUTH SHETLAND ISLANDS (154)
 AIA 6.45 222 eP 09 25.60 1.2
 eS 11 03.40
 SPA 29.37 180 iPd 13 49.90 -2.2
 1.0s 20.50nm 4.9mb
 SIV 45.03 350 Pd 16 03.20 -1.3
 ZOBO 45.61 341 P 16 10.00 0.3
 Z 24s 0.13um 3.8mszx
 LR 32 12.00
 SEK 61.70 98 iPd 18 09.20 1.6
 1.5s 27.78nm 5.2mb
 SLR 64.18 97 eP 18 23.30 -0.7
 BUL 69.06 94 iPc 18 55.00 -0.1
 1.0s 11.50nm 5.0mb
 LWI 84.55 85 e(P) 20 26.40 4.7X
 BCAO 85.43 73 iPc 20 27.00 1.1
 1.0s 10.00nm 5.0mb
 S.D. = 1.6 on 8 af 9 obs.

JUN 12, 1990 19h 56m 59.26± 0.95s
 6.575 S ± 5.0km 130.234 E ± 7.0km
 DEPTH = 140.1 ± 10.0 km
 4.8mb (12 obs.)

BANDA SEA (280)
 AAI 3.52 325 ePd 57 55.50 1.9
 eS 58 10.00
 MTN 6.29 172 iPd 58 29.70 -1.3
 KUPT 7.46 241 eP 59 01.50 14.8X
 eS 00 20.00
 KNA 9.23 189 iPc 59 08.70 -1.7
 0.2s 50.00nm 5.8mb x

12d 19h

WB5	13.82 164	eS eP	00 43.00 00 05.60	-4.9X	LPG	1.21 4 Pg	22 16.50 0.3	ESCF	0.19 270 Pg	29 19.84 -0.3	
WRA	13.88 164	Pc	00 02.50 00 06.40	-4.8X	LPL	1.23 4 Pg	22 16.60 0.2	LHE	0.28 233 Pg	29 21.69 -0.2	
OIS	16.61 148	iP	00 44.60 03 30.00	-0.7	S.D. = 0.4 on 13 of 13 obs.			ATE	0.28 272 Pg	29 22.19 0.3	
TRT	17.50 265	ePd	00 55.50 00 58.50	-0.7	* JUN 12, 1990 21h 32m 43.20 ± 3.63s 30.943 S ± 17.8km 72.437 W ± 26.9km DEPTH = 33.0km (normal)			ISSF	0.35 262 Pg	29 23.42 0.1	
MBL	17.65 214	eP	00 55.00 04 04.00	0.5	OFF COAST OF CENTRAL CHILE (134)			EPF	0.49 95 Pg	29 25.90 0.0	
KKM	18.79 312	ePc	01 10.30 01 29.00	-0.3	JACH	2.34 138 iPd	33 20.00 -0.2	S.D. = 0.3 on 7 of 7 obs.			
CTA	20.55 132	iPd	01 29.00 01 37.20	0.4	ROCH	2.36 149 iP	33 45.50 -0.1	? JUN 12, 1990 23h 55m 27.61 ± 4.36s 42.610 N ± 74.4km 7.738 E ± 32.4km DEPTH = 10.0km (geophysicist)			
NANU	21.30 220	eP	01 37.20 01 55.00	1.1	PEL	2.65 146 iPd	33 24.70 0.1	WESTERN MEDITERRANEAN SEA (387) ML 2.2 (LDG).			
OLP	23.95 148	iPd	02 02.30 02 23.50	0.4	RTBS	2.65 106 ePd	33 25.40 0.9	PGF	0.93 93 Pg	55 45.50 0.0	
MRWA	26.23 209	eP	02 23.50 02 55.00	0.6	RTRS	2.68 74 ePc	33 25.20 0.3	LMR	1.16 309 Pg	55 49.40 0.2	
RMO	26.52 140	eP	02 55.00 07 31.00	-0.7	TACH	2.99 155 eP	33 30.00 0.7	FRF	1.24 320 Pg	55 50.70 0.0	
BAL	27.07 206	eP	02 31.20 02 32.90	0.6	FCH	2.99 143 eP	33 30.00 0.2	LRG	1.32 310 Pg	55 07.50 -0.2	
STK	27.32 159	iPd	02 32.90 07 52.20	0.1	LNV	3.13 164 eP	33 31.00 -0.3	S.D. = 0.3 on 4 of 4 obs.			
MUN	28.47 206	eP	02 43.00 02 46.00	-0.1	PCH	3.13 149 iP	33 31.50 0.1	? JUN 13, 1990 00h 53m 56.92 ± 3.91s 40.135 N ± 49.9km 28.377 E ± 8.1km DEPTH = 10.0km (geophysicist)			
CMS	28.76 151	eP	02 46.00 02 54.00	0.2	RTCB	3.16 101 iPd	33 32.00 0.1	TURKEY (366)			
BRS	29.78 137	iPc	02 54.00 03 10.00	-0.9	ZON	3.27 102 eP	33 33.00 -0.5	EDC	0.45 298 iPg	54 06.00 0.0	
COO	31.36 142	iP	03 10.00 07 52.20	1.2	CHCH	3.34 154 eP	33 34.00 -0.4	IZI	0.86 76 ePn	54 10.60 0.2	
BWA	32.41 151	iPd	03 19.80 03 27.30	2.0	RTLL	3.42 97 ePc	33 34.60 -1.0	YLV	0.87 60 iPn	54 12.90 -0.9	
CAN	33.41 151	iPd	03 27.30 04 07.10	0.8	RTCV	3.46 106 ePd	33 36.20 0.1	HRT	1.20 55 ePn	54 20.00 0.7	
DZM	38.18 118	iPc	04 07.10 04 09.20	0.0	CFA	3.65 102 ePc	33 39.00 0.2	S.D. = 1.1 on 4 of 4 obs.			
SSE	38.44 347	eP	04 09.20 04 21.50	0.3	S.D. = 0.5 on 15 of 15 obs.			? JUN 12, 1990 23h 00m 15.76 ± 16.67s 43.034 N ± 82.0km 17.629 E ± 108.8km DEPTH = 10.0km (geophysicist)			
CHG	39.85 310	eP	04 21.50 04 49.00	0.7	YUGOSLAVIA (383) MD 4.2 (THE).			FNA	3.59 128 iPd	01 13.20 0.6	
WHN	39.92 338	eP	04 49.00 05 02.90	1.0	FNJ	4.05 149 eP	01 19.40 0.3	IGT	4.05 149 eP	01 19.40 0.3	
KMI	41.33 321	Pc	04 54.00 05 02.90	0.9	GRG	4.12 119 ePc	01 20.40 0.3	KNT	4.34 114 iPc	01 23.50 0.2	
MAT	43.54 9	eP	04 54.00 05 29.60	-1.6	KNE	4.34 114 iPc	02 05.50 0.2	THE	4.65 119 eP	01 27.40 -0.3	
XAN	45.15 335	P	05 02.90 05 43.00	-0.7	LIT	4.68 127 iPc	01 28.30 0.2	SRS	4.83 111 eP	01 30.30 0.0	
BJI	48.16 346	eP	05 26.50 05 58.00	-0.5	SAG	5.36 137 eP	01 36.80 -0.9	OUR	5.47 117 eP	01 38.90 -0.3	
SNY	48.55 353	Pc	05 58.00 06 18.70	-0.4	AGG	5.36 137 eP	01 36.80 -0.9	ALN	6.63 106 eP	01 55.50 -0.1	
CN2	50.33 355	Pd	06 18.70 06 20.80	-0.4	OUR	5.47 117 eP	01 38.90 -0.3	S.D. = 0.5 on 10 of 10 obs.			
LSA	52.05 316	P	06 20.80 06 04.80	0.6	ALN	6.63 106 eP	01 55.50 -0.1	% JUN 12, 1990 23h 06m 23.51 ± 1.06s 42.023 N ± 7.8km 14.092 E ± 8.2km DEPTH = 5.0km (geophysicist)			
GUN	54.85 311	Pc	06 04.80 06 24.50	-0.1	ALN	6.63 106 eP	01 55.50 -0.1	CENTRAL ITALY (381)			
PKI	55.03 310	Pc	06 24.50 06 04.80	-0.4	SDI	0.38 213 Pc	06 30.70 -0.4	DUI	0.45 143 P	06 32.80 0.2	
DMN	55.28 310	Pc	06 04.80 06 24.50	0.0	RMP	1.06 259 P	06 45.60 1.7	AZI	0.49 266 Pc	06 33.10 -0.2	
GKN	55.84 310	Pc	06 24.50 06 24.50	-0.2	RDP	1.06 256 P	06 43.00 -1.0	RMP	1.06 259 P	06 45.60 1.7	
GBA	56.12 291	Pc	06 24.50 07 04.80	-2.2	ASS	1.49 315 P	06 51.40 0.4	ASS	1.49 315 P	06 51.40 0.4	
NDI	61.91 307	iPc	07 04.80 07 04.80	-1.6	ARV	1.70 331 P	07 11.10 -0.6	ARV	1.70 331 P	07 11.10 -0.6	
WMO	63.17 327	eP	07 04.80 07 15.00	0.5	S.D. = 1.1 on 7 of 7 obs.			SAL	1.22 163 P	56 34.70 0.1	
MAIO	78.60 309	eP	08 48.00 16 41.00	0.8	JUN 12, 1990 23h 29m 16.01 ± 0.75s 43.078 N ± 9.3km 0.321 W ± 4.9km DEPTH = 10.0km (geophysicist)	PYRENEES (378) MD 1.0 (STR).			VAI	1.26 224 Pc	56 34.10 -1.3
ZOBO	150.93 141	PKP	16 41.00	8.6X	JAU	0.05 222 Pg	29 18.50 0.1	CTI	1.33 122 P	56 36.70 0.0	
S.D. = 1.0 on 39 of 43 obs.					OGE	0.14 309 Pg	29 19.37 0.0	SLE	1.44 314 ePc	56 39.20 1.0	
JUN 12, 1990 21h 21m 52.94 ± 0.50s 44.289 N ± 2.8km 6.621 E ± 4.5km DEPTH = 5.0km (geophysicist)					FRANCE (538) ML 2.4 (GEN), 2.1 (LDG).			FUR	1.63 31 iPgc	56 42.70 1.9	
PZZ	0.41 58	P	22 01.61 22 06.94	0.5	PYRENEES (378) MD 1.0 (STR).			ORO	1.83 232 P	56 44.50 0.6	
STV	0.51 95	P	22 02.84 22 09.94	-0.3	JUN 12, 1990 23h 29m 16.01 ± 0.75s 43.078 N ± 9.3km 0.321 W ± 4.9km DEPTH = 10.0km (geophysicist)	PYRENEES (378) MD 1.0 (STR).			FVI	1.90 94 P	56 46.80 2.1
ENR	0.58 96	P	22 04.41 22 12.00	-0.1	JUN 12, 1990 23h 29m 16.01 ± 0.75s 43.078 N ± 9.3km 0.321 W ± 4.9km DEPTH = 10.0km (geophysicist)	PYRENEES (378) MD 1.0 (STR).			DIX	1.94 250 ePc	56 47.10 1.5
RRL	0.64 10	P	22 05.10 22 07.60	-0.7	FRANCE (538) ML 2.4 (GEN), 2.1 (LDG).			DIX	1.94 250 ePc	56 47.10 1.5	
SBF	0.73 126	Pg	22 07.60 22 17.60	0.2	JUN 12, 1990 23h 29m 16.01 ± 0.75s 43.078 N ± 9.3km 0.321 W ± 4.9km DEPTH = 10.0km (geophysicist)	PYRENEES (378) MD 1.0 (STR).			DIX	1.94 250 ePc	56 47.10 1.5
FRF	0.73 179	Pg	22 07.10 22 17.10	-0.4	JUN 12, 1990 23h 29m 16.01 ± 0.75s 43.078 N ± 9.3km 0.321 W ± 4.9km DEPTH = 10.0km (geophysicist)	PYRENEES (378) MD 1.0 (STR).			DIX	1.94 250 ePc	56 47.10 1.5
LRG	0.86 193	Pg	22 09.70 22 23.70	-0.2	JUN 12, 1990 23h 29m 16.01 ± 0.75s 43.078 N ± 9.3km 0.321 W ± 4.9km DEPTH = 10.0km (geophysicist)	PYRENEES (378) MD 1.0 (STR).			DIX	1.94 250 ePc	56 47.10 1.5
ROB	0.90 89	P	22 10.53 22 21.74	-0.1	JUN 12, 1990 23h 29m 16.01 ± 0.75s 43.078 N ± 9.3km 0.321 W ± 4.9km DEPTH = 10.0km (geophysicist)	PYRENEES (378) MD 1.0 (STR).			DIX	1.94 250 ePc	56 47.10 1.5
LMR	0.96 185	Pg	22 12.20 22 27.30	0.6	JUN 12, 1990 23h 29m 16.01 ± 0.75s 43.078 N ± 9.3km 0.321 W ± 4.9km DEPTH = 10.0km (geophysicist)	PYRENEES (378) MD 1.0 (STR).			DIX	1.94 250 ePc	56 47.10 1.5
RSP	0.97 28	P	22 11.97 22 24.20	0.0	JUN 12, 1990 23h 29m 16.01 ± 0.75s 43.078 N ± 9.3km 0.321 W ± 4.9km DEPTH = 10.0km (geophysicist)	PYRENEES (378) MD 1.0 (STR).			DIX	1.94 250 ePc	56 47.10 1.5
IMI	0.99 112	P	22 12.27 22 25.33	0.1	JUN 12, 1990 23h 29m 16.01 ± 0.75s 43.078 N ± 9.3km 0.321 W ± 4.9km DEPTH = 10.0km (geophysicist)	PYRENEES (378) MD 1.0 (STR).			DIX	1.94 250 ePc	56 47.10 1.5

13d 02h

Table with station codes (LZH, STK, CMS, DZM, MRWA, BWA, GTA, CAN, BFD, SHL, TOO, LSA, SMY, GUN, PKI, DMN, GKN, WMO, ADK, MYB, GBA, MDI, KSH, SDN, ANM, SVW, TTA, KDC, IMA, PMR, FBA, TOA, MAIO, SIT, INK, MBC, TAB, KEV, MCW, BMW) and their respective coordinates, depths, and data points.

Table with station codes (GMW, SOD, YKA, FHC, LON, PNT, WDC, VGB, SUF, MIN, BRK, ORV, MHC, ARN, SAO, NEW, DAG, NUR, CMB, MAW, EDM, FRI, KVN, ABL, TNP, SES, CLC, SBB, LRM, UPP, HFS, NAO, FFC, MSU, SPA, KRA, PV09, KSP, SKO, PRU, GOL, KHC, CLL, Z, N, E, ALQ, BSF, HAU, LPL, LPG, LOR, LBF, SSF) and their respective coordinates, depths, and data points.

Table with station codes (BGF, BUL, TCF, GRR, TUL, LSF, LPF, MFF, CAF, LPO, LFF, ETOR, ECHE, WVLY, RSNY, GUD, HBVT, TOL, BNH, EPLA, NKM, IFR, AVE, TIO, KIC, TIC, LIC, SAN, PEL, FCH, JACH, BMG, BOG, PT10, NNA, FISA, SDV, RCB, MORO, RTRS, CFA, RTLL, BPA, MGH, PAG, CAR, LLAV, BBL, OLLA, ARE, SVB, LPB, ZOBO, CCH, SIV) and their respective coordinates, depths, and data points.

S.D. = 0.9 on 174 of 196 obs.
? JUN 13, 1990 04h 17m 22.07 ± 1.26s
31.832 S ± 19.9km 69.149 W ± 17.2km
DEPTH = 120.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

Table with station codes (RTBS, RTCB, ZON, RTCV, RTLL) and their respective coordinates, depths, and data points.

CFA 0.81 74 iPc 17 42.40 -0.2
 eS 17 57.00
 RTRS 1.68 351 ePc 17 52.00 0.0
 S.D. = 0.4 on 7 of 7 obs.

& JUN 13, 1990 08h 49m 49.20s
 62.266 N 148.546 W
 DEPTH = 46.6km
 CENTRAL ALASKA (1)
 <AGS-P>.

SML 0.47 168 iP 49 59.33 -0.7
 iS 50 07.60
 GH0 0.53 200 iP 49 59.90 -0.8
 eS 50 08.17
 SCM 0.72 127 iP 50 02.47 -0.8
 eS 50 13.19
 PLRM 0.73 203 iP 50 02.28 -1.0
 eS 50 13.68
 CUT 0.82 201 iP 50 03.74 -0.7
 eS 50 14.92
 HUR 0.87 325 iP 50 04.50 -0.8
 eS 50 16.49
 PWA 0.88 226 iP 50 05.00 -0.4
 eS 50 17.16
 TOA 1.13 97 eP 50 08.87 0.0
 PMS 1.13 206 eP 50 08.57 -0.4
 eS 50 24.10
 SUA 1.32 233 iP 50 11.64 0.0
 eS 50 29.93
 SDG 1.42 78 eP 50 13.12 0.1
 SKT 1.43 260 iP 50 12.63 -0.5
 KLU 1.47 121 eP 50 13.32 -0.4
 eS 50 33.47
 MCK 1.48 353 eP 50 13.74 -0.1
 VZW 1.54 141 eP 50 13.76 -0.9
 VLZ 1.55 136 eP 50 13.93 -0.8
 GLI 1.56 153 iP 50 14.73 -0.1
 PAX 1.59 62 eP 50 15.70 0.3
 KTH 1.69 321 eP 50 16.13 -0.7
 CGLM 1.90 241 eP 50 21.38 1.5
 NCG 1.92 245 eP 50 20.14 0.0
 SLKM 1.94 205 eP 50 20.65 0.3
 CRP 1.99 241 eP 50 21.77 0.6
 SPU 1.99 238 eP 50 21.29 0.2
 SEW 2.21 192 eP 50 24.95 0.8
 WRH 2.22 5 eP 50 23.62 -0.7
 CCB 2.41 8 eP 50 26.89 -0.1
 RDT 2.52 229 eP 50 28.66 0.1
 FBA 2.67 7 eP 50 29.84 -0.9
 GLM 2.78 10 eP 50 32.26 -0.1
 30 obs. associated

? JUN 13, 1990 09h 05m 18.65±6.84s
 41.103 N ±45.9km 29.536 E ±32.4km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

HRT 0.30 160 ePg 05 25.10 0.2
 eSg 05 31.60
 ISK 0.36 264 ePg 05 26.00 -0.1
 YLV 0.55 193 iPg 05 30.30 0.4
 IZI 0.77 184 ePg 05 33.00 -0.7
 S.D. = 0.8 on 4 of 4 obs.

* JUN 13, 1990 09h 18m 57.20±1.55s
 32.029 S ±11.8km 71.829 W ±17.9km
 DEPTH = 90.6 ± 20.9 km
 NEAR COAST OF CENTRAL CHILE (135)

ROCH 1.17 144 iP 19 18.50 -0.9
 JACH 1.23 122 iPd 19 18.50 -1.6
 iS 19 34.60
 LCCH 1.46 171 iPd 19 23.60 0.8
 iS 19 42.00
 PEL 1.47 139 iPc 19 22.60 -0.5
 iS 19 40.00
 SAN 1.73 146 iPc 19 26.30 -0.1
 iS 19 38.20
 iS 19 47.70
 TACH 1.79 155 iPd 19 27.50 0.4
 iS 19 49.50
 FCH 1.83 135 iPd 19 27.70 -0.4
 iS 19 50.50
 PCH 1.94 145 iPd 19 29.50 0.3
 iS 19 45.00
 iS 19 58.80

LNv 1.95 170 iPc 19 29.50 0.2
 iS 19 53.00
 RTBS 2.06 80 iPd 19 31.00 0.3
 CHCH 2.14 153 iPc 19 32.50 0.6
 iS 19 45.00
 ZON 2.73 81 eP 19 41.00 1.1
 eS 19 54.00
 RTRS 2.75 48 iPd 19 40.50 0.4
 RTCV 2.80 87 ePc 19 41.50 0.6
 RTLL 2.95 77 ePc 19 42.30 -0.6
 CFA 3.08 83 eP 19 45.00 0.2
 SIV 18.73 34 P 23 10.80 -0.8
 iS 23 21.00
 S.D. = 0.8 on 17 of 17 obs.

& JUN 13, 1990 09h 50m 38.80s
 63.529 N 150.742 W
 DEPTH = 8.1km
 CENTRAL ALASKA (1)
 <AGS-P>.

KTH 0.08 287 iP 50 40.99 -0.2
 eS 50 42.83
 HUR 0.75 137 eP 50 52.78 -0.9
 eS 51 02.42
 MCK 0.83 75 eP 50 54.53 -0.6
 Sn 51 06.26
 CUT 1.15 169 iP 51 00.06 -0.4
 Sn 51 15.75
 NEA 1.28 34 eP 51 02.25 -0.5
 Sn 51 19.44
 WRH 1.50 50 eP 51 05.36 -0.7
 SKT 1.60 193 iP 51 07.59 0.2
 eS 51 27.77
 CCB 1.71 48 eP 51 08.54 -0.5
 Sn 51 31.99
 GH0 1.95 154 eP 51 12.02 -0.6
 SML 2.05 146 eP 51 13.13 -0.9
 SUA 2.07 180 eP 51 15.14 0.7
 PLRM 2.08 158 eP 51 13.43 -1.0
 NCG 2.23 198 eP 51 15.79 -0.9
 PMS 2.36 166 eP 51 19.48 1.0
 TOA 2.54 122 eP 51 20.54 -0.5
 KLU 3.03 130 eP 51 26.40 -1.6
 16 obs. associated

& JUN 13, 1990 12h 07m 03.99s
 19.273 N 155.499 W
 DEPTH = 9.9km
 HAWAII (613)
 <HVO-P>. ML 4.2 (HVO). Felt
 (III) at Kalaa, Keahou and
 Pahala.

WOH 0.02 187 iPc 07 05.88 -0.1
 HTC 0.10 110 iPc 07 06.61 -0.1
 AIN 0.11 20 iPd 07 07.25 0.3
 eS 07 09.07
 KHU 0.12 258 iPd 07 07.13 0.0
 PPL 0.12 164 iPc 07 06.78 -0.1
 DES 0.12 59 iPc 07 06.96 -0.1
 TRH 0.15 341 iPd 07 07.86 0.1
 KFH 0.17 27 iPd 07 08.22 0.4
 DAH 0.18 298 iPd 07 08.02 -0.2
 HLP 0.18 82 iPc 07 08.02 0.0
 CPK 0.20 53 iPc 07 08.29 -0.2
 SWH 0.21 331 iPd 07 08.35 -0.4
 KNH 0.21 73 iPc 07 08.40 -0.2
 WIH 0.21 338 iPd 07 08.59 -0.3
 eS 07 11.82
 MWH 0.23 336 iPd 07 08.86 -0.2
 OUT 0.24 60 iPc 07 08.68 -0.4
 MLX 0.24 38 iPd 07 09.38 0.3
 AHA 0.24 66 iPc 07 08.91 -0.3
 eS 07 12.36
 RIM 0.24 59 iPc 07 08.89 -0.4
 UWE 0.25 52 iPd 07 09.00 -0.3
 iS 07 13.60
 MLH 0.25 25 iPd 07 09.19 -0.2
 eS 07 12.96
 NPH 0.25 55 ePc 07 08.89 -0.4
 eS 07 12.49
 PWH 0.26 88 iPc 07 09.50 0.0
 PLL 0.26 8 iPd 07 09.46 -0.2
 WOB 0.28 343 iPd 07 09.51 -0.4
 ESR 0.28 61 ePc 07 09.43 -0.5

PUH 0.28 69 ePc 07 09.43 -0.6
 MKA 0.33 73 ePc 07 10.11 -0.7
 SPT 0.33 209 ePd 07 10.54 -0.3
 MMH 0.33 2 iPd 07 10.66 -0.3
 KIH 0.34 313 iPd 07 10.70 -0.5
 KAE 0.35 87 ePc 07 10.97 -0.2
 KUH 0.35 269 iPd 07 10.72 -0.5
 WHA 0.43 82 iPd 07 12.01 -0.7
 CPH 0.45 298 iPd 07 12.53 -0.6
 MVH 0.47 61 ePc 07 12.74 -0.8
 HPU 0.51 4 iPd 07 13.55 -0.8
 HUL 0.51 73 iPd 07 13.09 -1.3
 HUH 0.52 322 iPd 07 14.30 -0.3
 PKL 0.58 71 iPd 07 13.87 -1.8
 HIL 0.59 41 iPd 07 30.86 15.0
 eS 07 39.16
 WKH 0.60 345 iPc 07 15.13 -1.1
 NGH 0.62 46 ePc 07 15.56 -0.8
 KKH 0.63 13 ePd 07 15.66 -1.2
 POH 0.64 73 iPd 07 14.88 -1.9
 KPO 0.66 70 iPd 07 15.11 -2.0
 KOH 0.89 343 ePc 07 18.69 -2.5
 47 obs. associated

? JUN 13, 1990 12h 14m 18.14±12.89s
 32.765 S ±104.km 69.982 W ±70.9km
 DEPTH = 120.0km (geophysicist)
 MENDOZA PROVINCE, ARGENTINA (139)

RTBS 1.19 22 e(P) 14 42.20 -0.2
 RTCV 1.52 54 e(P) 14 46.30 0.1
 CFA 1.88 52 ePd 14 50.80 0.3
 eS 15 14.80
 RTLL 1.92 42 iPc 14 50.80 -0.3
 eS 15 13.90
 RTRS 2.62 10 ePc 15 00.30 0.2
 S.D. = 0.4 on 5 of 5 obs.

% JUN 13, 1990 12h 26m 15.25±0.79s
 31.334 S ±14.3km 68.618 W ±16.8km
 DEPTH = 100.0km (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.13 88 iPc 26 29.50 -0.3
 eS 26 39.80
 CFA 0.42 130 iPd 26 30.90 0.1
 eS 26 43.10
 RTCV 0.53 173 iPc 26 31.60 0.1
 S 26 42.80
 RTBS 0.78 245 e(P) 26 33.60 -0.1
 RTRS 1.37 328 iPc 26 40.30 0.1
 S.D. = 0.2 on 5 of 5 obs.

JUN 13, 1990 12h 55m 51.91±0.83s
 41.154 N ± 7.1km 23.174 E ± 4.6km
 DEPTH = 5.0km (geophysicist)
 GREECE-BULGARIA BORDER REGION (363)
 ML 1.4 (SKO).

KNT 0.21 272 iPd 55 55.50 -0.7
 eS 55 58.20
 SRS 0.32 97 ePd 55 57.90 -0.4
 iS 56 03.50
 SOH 0.36 158 iPc 55 59.70 0.6
 eS 56 05.20
 VAY 0.49 290 ePg 56 02.60 1.0
 iSg 56 07.20
 THE 0.55 197 eP 56 02.70 -0.1
 eS 56 11.10
 GRG 0.62 252 eP 56 03.80 -0.5
 OUR 1.02 143 eP 56 12.00 0.3
 eS 56 27.50
 LIT 1.17 207 eP 56 14.60 0.3
 PAIG 1.28 162 eP 56 15.80 -0.4
 eS 56 34.40
 S.D. = 0.6 on 9 of 9 obs.

* JUN 13, 1990 15h 16m 29.82±1.79s
 16.891 N ±11.7km 60.994 W ±13.5km
 DEPTH = 29.0 ± 4.9 km
 LEEWARD ISLANDS (92)
 ML 3.4 (FDF).

SFG 0.66 197 ePd 16 42.33 -0.5
 S 16 50.90
 SEG 0.69 225 ePd 16 42.78 -0.5
 S 16 51.90

13d 16h

Table with station codes (TIY, XAN, CD2, etc.), magnitudes, depths, and source parameters. Includes station names like TIY, XAN, CD2, TIA, WHN, NUJ, GYA, WMO, CN2, KMI, GUN, PKI, DMN, GKN, CHTO, HFS.

S.D. = 1.3 on 17 of 19 obs.

JUN 13, 1990 16h 41m 53.60 ± 0.15s
6.371 N ± 3.1km 126.396 E ± 3.9km
DEPTH = 77.2km (9 depth phases)
5.6mb (50 obs.)

MINDANAO, PHILIPPINE ISLANDS (259)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 29C
Centroid Location:
Origin Time 16:41:57.4 0.3
Lat 6.20N 0.03 Lon 126.27E 0.03
Dep 84.1 1.6 HolF-duration 3.0
Moment Tensor; Scale 10**17 Nm
Mrr=-2.52 0.10 Mtt=1.83 0.17
Mff=-4.35 0.23 Mrt=-1.33 0.11
Mrf=1.79 0.10 Mtf=-2.50 0.14
Principal Axes:
T Val= 4.54 Plg=44 Azm=207
N 0.90 44 8
P -5.44 9 107
Best Double Couple: Mo=5.0*10**17
NP1:Strike=236 Dip=52 Slip= 151
NP2: 345 68 41

Table with station codes (DAV, OCP, KKM, etc.), magnitudes, depths, and source parameters. Includes station names like DAV, OCP, KKM, AAI, BAG, MRS, ANP, GUMO, PJG, GUA, TRT, MTN, HKC, QZH, OIZ.

Table with station codes (GZH, KNA, KGM, SSE, etc.), magnitudes, depths, and source parameters. Includes station names like GZH, KNA, KGM, SSE, IPM, SNG, PCT, KDB, LOE, NJ2, WHN, PPI, NNT, WB5, WRA, NST, GYA, PSI, TSI, BDT, KMI, CHG, OIS, TSRJ, NANU, TIA, CHJJ, MAT, XAN, CD2, WARB, DL2.

Table with station codes (MEKA, TIY, YAMJ, BJI, SNY, LZH, MRWA, HHC, OLP, FORR, BTO, CN2, BAL, SHL, MDJ, RMO, MUN, LSA, GTA, STK), magnitudes, depths, and source parameters. Includes station names like MEKA, TIY, YAMJ, BJI, SNY, LZH, MRWA, HHC, OLP, FORR, BTO, CN2, BAL, SHL, MDJ, RMO, MUN, LSA, GTA, STK.

Table with columns for station codes (e.g., RKG, ADE, GUN, COO, PKI, DMN, GKN, BWA, BFD, CAN, CNB, TOO, HYB, DZM, KOD, GBA, WMO, MAIO, TAB, SVV, TTA, KDC, IMA, PMR, FBA, TOA, MAW, BURJ, SALJ, KFNJ, KEV, MKRJ, DSI, INK, SOD, PRNI, MBH, SUF, MBC, TRO, NUR, VRI, MLR, CMP, UPP, DAG, HFS, KRA, SPC) and columns for seismic data (e.g., iPcP, eS, 51 29.60, 55 31.80, 49 37.30, 5.1X, 0.5s, 159.00nm, 6.1mb, 42.72, 165 iPc, 49 46.00, 1.2, 1.0s, 530.00nm, 6.3mb, etc.).

Table with columns for station codes (e.g., VAY, NAO, SKO, YKA, SRO, KSP, ZST, KRI, PRU, CLL, BUL, KHC, MOX, DOU, KVN, FRB, RSSD, GOL, ANMO, ALQ, SCH, FVM, OLY, CBM, RSNY, WVLY, HBVT, PWLA, RSCP, TKL, KIC, TIC, LIC, CVL, JSC, LNV, LCCH, CHCH, TACH, PCH, SAN, ROCH, PEL, FCH, JACH, UPA, RTBS, RTCB, ZON, CFA, RTLL, RTRS, ZOBO, CCH, SIV, BAO) and columns for seismic data (e.g., 96.11, 313 eP, 55 12.30, -1.8, 96.55, 334 P, 55 14.20, -1.5, 0.7s, 12.70nm, 5.6mb, etc.).

Table containing regional summaries and seismic data for Alaska (e.g., INK, GLM, FBA, CCB, IMA, WRH, NEA, DOT, KTH, PAX, SDG, SML, MBC, YKA), Turkey (e.g., IZI, YLV, EDC, HRT, ALT, CTT), San Juan Province, Argentina (e.g., RTCB, RTLL, RTCV, CFA, RTBS, RTRS), and Dodecanese Islands (e.g., YER, CIN, SMG, KSL, ELL, IZM, KHL, APE, BCK, ALT, EDC, VAM, KGT, IZI, GPA, GBZT, HRT, PPCY, VLI, CTT, ITU, RDO, CSS, LFK, VAY, DSI, PRNI, MBH). It also includes statistical summaries like '% JUN 13, 1990 17h 18m 28.98 ± 0.91s' and 'DEPTH = 10.0km (geophysicist)'. A star symbol indicates a significant event.

13d 17h

Table with columns for station ID, coordinates, and depth. Includes stations SMF, LOR, SSF, AVF.

* JUN 13, 1990 17h 33m 23.96 ± 0.63s
6.295 N ± 8.7km 126.349 E ± 11.9km
DEPTH = 33.0km (normal)
4.8mb (6 obs.)

MINDANAO, PHILIPPINE ISLANDS (259)

Table listing stations in Mindanao, Philippines, including AAI, TRI, KNA, IPM, SNG, WB5, WRA, QIS, NANU, XAN, WARB, MEKA, LZH, MRWA, FORR, COOL, BAL, MUN, STK, GTA, RKG, BRS, BWA, CAN, GBA.

? JUN 13, 1990 18h 09m 01.68 ± 7.26s
16.237 N ± 67.9km 97.685 W ± 15.8km
DEPTH = 33.0km (normal)

OAXACA, MEXICO (60)

Table listing stations in Oaxaca, Mexico, including OXX, III, IIT, PPM, LVVM, IIJ.

? JUN 13, 1990 18h 45m 29.66 ± 4.67s
31.277 S ± 15.6km 68.427 W ± 24.9km
DEPTH = 90.2 ± 43.3 km

SAN JUAN PROVINCE, ARGENTINA (137)

Table listing stations in San Juan Province, Argentina, including RTLL, CFA, RTCB, RTCV, RTBS, RTRS.

? JUN 13, 1990 18h 55m 24.65 ± 1.22s
36.566 N ± 13.6km 25.343 E ± 15.0km

DEPTH = 5.0km (geophysicist)
DODECANESE ISLANDS (369)
ML 3.3 (ATH).

Table listing stations in Dodecanese Islands, including APE, VAM, SMG, ATH, VLI, IZM.

? JUN 13, 1990 18h 58m 54.03 ± 8.66s
31.419 S ± 18.4km 67.833 W ± 59.0km
DEPTH = 10.0km (geophysicist)

SAN JUAN PROVINCE, ARGENTINA (137)

Table listing stations in San Juan Province, Argentina, including CFA, RTLL, RTCV, RTCB, RTBS, RTRS.

? JUN 13, 1990 19h 38m 26.18 ± 0.89s
37.378 N ± 8.6km 30.144 E ± 7.8km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

Table listing stations in Turkey, including BCK, ELL, KHL, CIN.

& JUN 13, 1990 19h 44m 45.03s
60.808 N 151.180 W
DEPTH = 48.6km

KENAI PENINSULA, ALASKA (14)
<AGS-P>. ML 3.2 (PMR)

Table listing stations in Kenai Peninsula, Alaska, including SLKM, SPU, CGLM, CRP, SUA, NCG, RED, PMS, PWA, SEW, SKT, PLRM, PMR, CNPM, XLV, CUT, AUE, AUL, GLI, SCM, SVW, CDD, VZW, HUR, VLZ, KLU, TOA, KTH, SGAM, MCK, TTA, KDC, SDG, PAX.

Table listing stations in NEA, WRH, WAX, CCB, BALM, FBA, GLM, IMA.

* JUN 13, 1990 19h 54m 46.97 ± 1.36s
46.946 N ± 13.7km 0.381 W ± 20.9km
DEPTH = 5.0km (geophysicist)

FRANCE (538)
ML 2.7 (LDG).

Table listing stations in France, including MFF, LPF, GRR, LSF, TCF, RJF, MAF, CAF, SSF, LOR, LBF.

? JUN 13, 1990 20h 22m 12.30 ± 18.01s
15.638 N ± 159.km 97.732 W ± 19.7km
DEPTH = 33.0km (normal)

NEAR COAST OF OAXACA, MEXICO (66)

Table listing stations in Near Coast of Oaxaca, Mexico, including OXX, III, IIT, PPM, LVVM, IIJ.

JUN 13, 1990 20h 41m 59.86 ± 0.52s
19.656 N ± 5.5km 144.544 E ± 8.7km
DEPTH = 497.3 ± 7.6 km
4.5mb (14 obs.)

MARIANA ISLANDS (216)

Table listing stations in Mariana Islands, including GUMO, PJG, GUA, IIDJ, CHJJ, MAT, MTMJ, NIIJ, YAMJ, BJI, HHC, BTO, LZH, WB5.

WRA 40.60 195 Pc 48 56.80 -0.2
0.4s 1.30nm 3.8mb
GTA 43.10 307 P 49 27.60 10.7X
DZM 46.67 152 iPd 49 44.30 -0.3
WMO 52.86 311 iPd 50 29.00 -1.4
GUN 53.88 291 P 50 39.20 0.9
PKI 54.33 290 P 50 41.40 -0.1
0.6s 22.00nm 4.7mb
DMN 54.59 290 P 50 43.50 0.3
0.6s 23.00nm 4.7mb
GKN 54.97 291 P 50 46.20 0.5
0.6s 28.00nm 4.8mb
GBA 64.24 276 Pc 51 47.20 -0.3
0.8s 6.50nm 4.3mb
INK 68.93 23 eP 52 16.00 0.5
MBC 72.50 14 eP 52 37.50 1.1
YKA 77.66 28 eP 53 05.00 -0.2
0.5s 2.40nm 3.9mb
KEV 80.69 342 eP 53 21.00 0.0
SOD 82.09 340 iP 53 28.10 -0.1
KVN 83.35 51 P 53 36.00 0.7
LRM 84.80 43 eP 53 43.40 0.9
SUF 84.82 336 iP 53 41.20 -0.7
0.5s 4.50nm 4.4mb
NUR 86.67 335 eP 53 50.00 -0.8
HFS 91.09 338 eP 54 10.20 -1.2
0.4s 1.70nm 4.3mb
NAO 91.58 339 P 54 12.20 -1.5
0.7s 1.20nm 4.0mb
S.D. = 0.8 on 33 of 34 obs.

% JUN 13, 1990 21h 30m 01.49 ± 1.76s
46.734 N ± 7.0km 8.123 E ± 15.6km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)
ML 2.2 (LDG).

BSF 1.42 321 Pn 30 27.30 -0.2
Sg 30 48.70
LPL 1.56 219 Pn 30 29.80 0.3
Sg 30 54.20
LPG 1.56 218 Pn 30 29.70 0.1
Pg 30 31.10
HAU 1.75 317 Pn 30 32.50 0.4
Sg 30 58.90
CDF 1.77 341 Pn 30 32.20 -0.3
LBF 2.86 277 Pn 30 49.00 1.0
SMF 2.95 270 Pn 30 50.30 1.1
LOR 2.97 282 Pn 30 50.10 0.6
SSF 3.18 278 Pn 30 53.40 0.9
AVF 3.28 273 Pn 30 53.80 -0.1
BGF 3.64 269 Pn 30 58.30 -0.7
MAF 3.87 264 Pn 31 01.30 -1.1
TCF 4.11 266 Pn 31 04.70 -1.0
MFF 5.69 272 Pn 31 27.20 -0.9
S.D. = 0.8 on 14 of 14 obs.

JUN 13, 1990 21h 34m 39.90 ± 0.94s
36.615 N ± 10.3km 27.009 E ± 6.0km
DEPTH = 29.9 ± 7.9 km
3.8mb (8 obs.)
DODECANESE ISLANDS (369)
ML 4.1 (ATH).

SMG 1.10 353 ePg 34 59.10 -0.2
YER 1.15 63 iPn 34 59.00 -1.0
APE 1.27 291 ePb 35 02.20 0.5
eSb 35 25.00
CIN 1.31 41 eP 35 02.00 -0.2
KSL 2.14 103 ePb 35 13.50 -0.7
ELL 2.33 86 iPn 35 18.50 1.4
KHL 2.63 49 ePn 35 27.50 6.2X
ATH 2.95 298 iPgd 35 35.70 9.9X
BCK 2.99 73 iPn 35 27.50 1.1
VLI 3.28 273 ePn 35 31.50 1.1
ALT 3.46 44 ePn 35 39.20 6.1X
EDC 3.79 10 ePn 35 48.20 10.6X
ITM 4.11 279 ePn 35 44.70 2.4X
RDO 4.67 346 ePn 35 49.30 -0.8
LKF 5.46 102 eP 36 03.00 1.6
BBTK 5.56 53 eP 36 02.00 -0.8
VAY 5.83 325 eP 36 21.00 14.4X
PRNI 9.14 131 eP 36 47.00 -5.8X
KHC 15.89 326 eP 38 26.00 3.1X
LPG 17.63 306 eP 38 47.30 2.2
0.6s 2.70nm 3.6mb
LPL 17.65 307 eP 38 47.30 2.0

0.6s 1.80nm 3.4mb
SMF 19.94 307 eP 39 11.10 -1.1
0.8s 4.05nm 3.8mb
LBF 19.98 308 eP 39 11.80 -0.9
0.6s 2.25nm 3.7mb
AVF 20.31 307 eP 39 15.10 -0.9
0.6s 3.60nm 3.9mb
SSF 20.31 308 eP 39 15.40 -0.6
0.8s 9.40nm 4.2mb
BGF 20.55 306 eP 39 18.00 -0.5
0.8s 6.05nm 4.0mb
BCAO 32.96 196 iPc 41 12.10 -2.1
0.6s 8.00nm 4.8mb
S.D. = 1.3 on 19 of 27 obs.

JUN 13, 1990 22h 27m 21.33 ± 0.65s
45.794 N ± 6.8km 26.874 E ± 8.2km
DEPTH = 88.6 ± 9.1 km
3.2mb (1 obs.)

ROMANIA (358)
VRI 0.13 306 iPd 27 32.50 -0.9
ISR 0.70 200 iPc 27 39.00 1.0
MLR 0.72 246 iP 27 38.00 -0.3
CLI 0.81 20 iPc 27 50.00 10.9X
CFR 1.09 124 iPd 27 42.00 -0.2
PTT 1.19 344 iPc 27 43.50 0.0
CMP 1.39 249 iPc 27 51.00 4.9X
TLB 1.46 145 iPd 27 48.50 1.7
BUC1 1.57 203 ePc 28 08.00 19.8X
DRA 2.16 240 eP 28 17.00 20.8X
BZS 3.69 269 ePc 28 17.00 -0.1
ISK 4.99 161 ePg 28 34.30 -0.9
GBZT 5.34 159 eP 28 40.50 0.3
VAY 5.46 216 ePn 28 42.00 0.3
YLV 5.53 160 iPg 28 42.20 -0.7
IZI 5.78 160 ePg 28 45.60 -0.7
NAO 17.77 334 P 31 24.40 0.4
0.8s 1.30nm 3.2mb
S.D. = 0.9 on 13 of 17 obs.

JUN 13, 1990 23h 00m 43.79 ± 1.42s
5.754 N ± 6.1km 124.528 E ± 8.7km
DEPTH = 74.0 ± 14.4 km
5.1mb (8 obs.)

MINDANAO, PHILIPPINE ISLANDS (259)
DAV 1.68 38 iPd 01 11.00 -0.8
QCP 9.46 339 eP 02 48.00 -11.6X
AAI 10.07 159 eP 03 08.40 0.5
BAG 11.28 340 eP 03 26.00 1.6
HKC 19.26 330 iPc 05 10.00 4.8X
iS 08 43.00
QIZ 19.46 314 eP 05 06.60 -0.9
N 13s 0.90um
E 14s 1.20um

S 08 44.50
SS 09 13.00
MTN 19.61 160 eP 05 08.00 -1.0
QZH 19.91 344 eP 05 16.00 3.9X
Z 24s 2.00um
E 10s 0.90um
S 08 52.00
GZH 20.33 329 eP 05 19.00 2.6
E 15s 1.40um

eS 09 02.00
GUMO 21.49 67 e(P) 05 22.80 -5.5X
1.4s 492.31nm 5.7mb
GUA 21.52 67 e(P) 05 27.50 -1.0
0.7s 60.27nm 5.1mb
KNA 21.77 169 eP 05 29.30 -1.7
IPM 23.44 268 ePc 05 48.00 0.6
SNG 23.80 275 eP 05 50.00 -0.9
eS 09 09.00
PPI 24.87 256 eP 05 58.50 -2.7
LOE 25.12 299 eP 06 03.00 -0.5
SSE 25.40 353 eP 06 06.00 0.0
Z 20s 0.70um 4.2msz
N 14s 0.80um
E 14s 0.30um
eS 10 30.00
NST 25.89 294 eP 06 12.00 1.4
WHN 26.45 340 eP 06 13.00 -2.7
N 15s 0.60um
NJ2 26.70 349 Pd 06 19.50 1.6
Z 20s 0.60um 4.1msz
pP 06 30.50 42kmX

eS 10 50.00
WB5 27.25 159 iPc 06 22.00 -1.1
WRA 27.30 160 P 06 23.00 -0.5
0.5s 23.90nm 5.0mb
CHG 28.11 300 eP 06 38.70 7.8X
KMI 28.41 315 Pd 06 36.50 2.8
Z 16s 1.70um 4.7msz
N 14s 0.50um
S 11 17.00
QIS 30.05 151 eP 06 47.00 -1.2
TIA 31.06 348 eP 06 52.00 -5.0X
Z 26s 0.80um 4.3msz
E 17s 1.10um
eS 11 56.00
XAN 31.65 335 P 07 01.00 -1.2
CD2 31.73 325 P 07 02.00 -0.9
eS 12 08.00
MAT 33.11 20 (P) 07 13.00 -1.8
Z 20s 1.42um 4.7msz
eS 12 42.00
TIY 33.67 343 eP 07 17.20 -2.5
Z 26s 1.10um 4.5msz
N 18s 1.40um
S 12 41.50
BJI 34.95 349 eP 07 29.00 -1.6
Z 24s 0.64um 4.3msz
eS 12 56.00
LZH 35.67 331 eP 07 36.70 -0.2
2.0s 61.00nm 5.2mb
Z 16s 1.60um 4.9msz
N 16s 0.80um
E 15s 0.90um
S 13 13.90
SNY 35.93 359 eP 07 41.60 2.8
Z 18s 1.20um 4.7msz
N 18s 1.10um
E 18s 0.80um
eS 13 12.00
HHC 36.82 344 eP 07 46.60 0.1
Z 13s 1.20um 4.9msz
S 13 30.00
BTO 37.05 342 eP 07 47.50 -1.0
N 15s 0.50um
E 15s 0.80um
eS 13 32.00
CN2 37.90 1 eP 07 56.00 0.6
Z 18s 0.40um 4.3msz
N 15s 0.40um
E 15s 0.40um
eS 13 44.00
MDJ 38.96 6 eP 08 06.00 1.7
LSA 39.46 311 P 08 11.20 2.0
RMO 39.73 145 eP 08 11.00 0.1
GTA 40.25 330 P 08 15.20 0.1
5.0s 300.00nm 5.4mb X
Z 20s 2.00um 5.0msz
E 15s 0.80um
S 14 22.00
STK 40.81 158 eP 08 20.00 0.4
1.0s 26.00nm 5.0mb
eS 14 29.90
ADE 42.65 163 iPc 08 36.00 1.2
GUN 42.77 306 P 08 36.90 0.7
0.8s 48.00nm 5.4mb
BRS 42.79 142 iPc 08 35.50 -0.5
PKI 43.02 305 P 08 38.70 0.5
GKN 43.82 305 P 08 45.00 0.5
BWA 45.89 152 eP 09 03.70 2.9
BFD 45.90 160 eP 09 02.00 1.2
HYB 46.38 289 eP 09 10.00 5.1X
CAN 46.90 152 eP 09 20.30 11.6X
GBA 47.00 283 P 09 09.40 -0.4
0.9s 3.00nm 4.2mb
TOO 47.33 157 eP 09 14.00 1.9
DZM 49.49 125 iPc 09 30.00 0.9
WMO 49.82 325 eP 09 31.20 -0.1
Z 20s 1.10um 4.9msz
S 16 40.00
KSH 55.04 315 eP 10 16.00 5.6X
QUE 59.22 302 eP 10 39.50 -0.7
MAIO 66.55 307 eP 11 33.00 4.6X
eS 20 18.00
TAB 77.19 308 eP 12 31.00 -0.7
PRNI 86.73 300 eP 13 22.00 0.7
MBH 86.88 299 eP 13 22.00 0.1
SUF 88.76 333 iP 13 29.70 -0.6
INK 89.09 21 eP 13 25.00 -6.8X

RSNY	49.74	68 eP	04 15.00	19kmX	5.8mb
WNY	50.19	67 eP	04 14.20	-2.1	4.8mb
CBM	51.24	61 eP	04 22.00	-2.2	5.4mb
SNY	51.81	290 Pc	04 28.10	-0.4	5.7mb
TBR	52.33	71 eP	04 30.70	-1.8	5.4mb
KEV	53.80	359 iP	04 42.00	-0.9	5.4mb
SOD	56.20	359 iP	04 59.40	-1.0	5.2mb
BJI	56.91	294 eP	05 04.50	-1.3	5.2mb
HHC	58.59	297 Pc	05 17.50	-0.3	4.6MsZ
BT0	59.54	298 P	05 24.00	-0.3	
TIY	60.57	295 Pd	05 30.50	-0.9	
Z	25s	0.60um			
N	14s	0.40um			
SUF	60.87	359 iP	05 32.70	-0.2	5.0mb
SSE	61.14	283 eP	05 34.50	-0.7	4.9mb
NJ2	61.64	286 Pc	05 37.60	-1.0	4.3km
NAO	62.27	8 P	05 41.50	-1.0	5.1mb
NUR	63.09	0 iP	05 48.00	0.2	5.5mb
HFS	63.15	6 eP	05 46.30	-1.9	5.4mb
WHN	65.20	288 eP	06 00.00	-1.9	50km
XAN	65.21	294 P	06 01.50	-0.6	5.5mb
GTA	65.27	304 P	06 00.00	-2.5	5.5mb
EKA	66.02	17 P	06 06.00	-0.9	4.9mb
LZH	66.07	299 Pd	06 07.20	-0.5	5.5mb
Z	20s	0.40um			4.6MsZ
WMO	66.74	315 iPc	06 12.00	0.3	48km
WIT	69.82	12 e(P)	06 35.00	4.5X	0.8
WTS	70.64	12 iPc	06 36.20	0.7	5.2mb
ENN	71.74	12 eP	06 43.00	0.8	5.0mb
CLL	71.89	8 iPc	06 43.20	0.1	5.0mb
MEM	71.91	12 P	06 43.50	0.3	44km
DOU	72.24	13 Pc	06 45.60	0.4	50km
MOX	72.44	9 iPc	06 47.00	0.6	43km
GYA	72.48	291 P	06 48.00	0.9	45km
KSP	72.56	6 iPc	06 47.20	0.1	44km
FLN	72.81	17 eP	06 47.90	-0.6	4.8mb
LDF	73.03	17 eP	06 49.40	-0.4	4.8mb
PRU	73.31	7 Pc	06 52.00	0.6	42km
GRF	73.35	9 eP	06 49.80	-1.9	4.8mb
Z	24s	0.10um			4.0MsZ
LPF	73.42	18 eP	06 52.20	0.1	4.8mb
KRA	73.50	3 eP	06 52.40	-0.1	41km
WET	74.03	8 eP	06 56.50	0.8	0.9
KHC	74.10	8 iP	06 57.00	0.9	4.8mb
CDF	74.22	12 eP	06 56.50	-0.4	4.6mb
SPC	74.38	3 eP	06 58.70	0.8	39km

HAU	74.51	13 eP	06 58.40	-0.1	5.0mb
BSF	74.74	12 eP	06 59.50	-0.4	4.7mb
KSH	74.84	321 eP	07 01.00	0.4	4.9mb
LOR	74.92	15 eP	07 00.60	-0.2	4.9mb
MFJ	74.96	17 eP	07 00.90	-0.1	4.9mb
SSF	75.07	15 eP	07 01.60	-0.1	5.0mb
LBF	75.21	14 eP	07 02.10	-0.5	4.7mb
ZST	75.24	5 iP	07 03.40	0.8	45km
AVF	75.31	15 eP	07 02.60	-0.5	4.8mb
BHG	75.45	8 iPc	07 04.60	0.8	5.0mb
BGF	75.47	15 eP	07 03.80	-0.2	4.9mb
SMF	75.52	15 eP	07 03.90	-0.4	4.8mb
LSF	75.57	16 eP	07 04.20	-0.4	4.9mb
TCF	75.64	16 eP	07 04.70	-0.3	4.7mb
SRO	75.68	4 eP	07 05.50	0.4	51km
MAF	75.75	16 eP	07 05.60	0.0	4.7mb
SQTA	75.80	9 iPc	07 06.00	0.0	5.2mb
RJF	76.49	17 eP	07 09.40	-0.3	4.8mb
FVI	76.56	8 P	07 10.50	0.5	5.2mb
LFF	76.72	17 eP	07 11.10	0.1	5.2mb
QIZ	76.90	285 eP	07 12.80	0.4	4.7mb
CAF	76.94	16 eP	07 12.10	-0.2	4.7mb
LPL	77.01	13 eP	07 13.60	0.7	0.9
LPG	77.03	13 eP	07 14.00	0.9	5.1mb
LPO	77.04	17 eP	07 12.70	-0.1	1.2
LSA	77.28	305 P	07 16.20	1.2	0.6
BZS	77.98	2 eP	07 18.50	0.6	1.0
BOB	78.06	11 P	07 19.50	1.0	-9.0X
MLR	78.13	359 eP	07 10.00	-9.0X	4.4mb
CMP	78.36	360 ePc	07 29.00	8.9X	5.1mb
EPF	78.51	18 eP	07 20.40	-0.6	0.1
SBF	78.73	13 eP	07 22.30	0.1	4.7mb
FRF	78.93	13 eP	07 23.30	0.1	0.6
LRG	78.99	13 eP	07 24.10	0.6	0.3
LMR	79.13	13 eP	07 24.60	0.3	4.8mb
PGD	79.17	9 P	07 26.50	1.8	0.9
ARV	79.65	9 P	07 28.00	0.9	0.7
ASS	80.05	9 P	07 30.00	0.7	5.7mb
GUN	81.15	308 P	07 36.50	0.7	0.8
AZI	81.19	8 P	07 36.00	0.8	0.1
SDI	81.50	8 P	07 37.00	0.1	1.0
DUI	81.59	8 P	07 38.50	1.0	0.5
GKN	81.61	309 P	07 38.40	0.5	5.4mb
SKO	81.62	2 iP	07 38.70	1.2	39km
PKI	81.65	308 P	07 38.60	0.3	5.5mb
DMN	81.75	309 P	07 39.40	0.7	5.6mb
VAY	82.29	2 eP	07 42.40	1.4	0.2
OHR	82.46	3 eP	07 42.20	0.2	5.3mb
LOE	82.51	290 eP	07 55.80	46km	-0.5
MAIO	82.73	332 iPc	07 44.70	1.2	2.8X
CHG	82.75	293 eP	07 46.60	2.8X	12.2X
MAL	83.69	23 iPc	08 00.40	12.2X	1.0
DZM	84.84	215 iPc	07 55.20	1.0	1.5
QUE	86.30	324 eP	08 03.20	1.5	

BUL	143.34	354 iPKPc	14 49.50	-4.8X
WIN	145.42	12 iPKPc	14 58.00	0.1
SPA	146.56	180 iPKPd	14 59.60	1.3
BFT	148.73	351 iPKPc	15 07.50	4.3X
SLR	148.91	354 iPKPd	15 07.00	3.6X
KSR	149.11	356 ePKP	15 22.00	18.3X
BPI	149.36	354 iPKP	15 08.30	4.2X
BFS	150.14	356 ePKP	14 53.50	-11.7X
JOZ	150.25	347 iPKPc	15 09.00	3.9X
SWZ	150.46	359 ePKP	14 57.50	-8.2X
SEK	151.52	355 iPKPc	15 13.50	6.2X
CER	156.33	11 ePKP	15 23.00	9.4X

S.D. = 0.9 on 162 of 203 obs.
 % JUN 14, 1990 04h 25m 23.49 ± 0.59s
 44.607 N ± 4.9km 7.212 E ± 7.6km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.0 (GEN).

PZZ	0.13	218 P	25 26.60	-0.2
STV	0.37	167 P	25 31.22	0.1
ENR	0.41	158 P	25 31.83	0.0
RRL	0.44	316 P	25 32.65	0.2
RSP	0.55	3 P	25 34.40	-0.2
ROB	0.57	123 P	25 35.11	0.1
IMI	0.85	145 P	25 39.93	0.0

S.D. = 0.2 on 7 of 7 obs.
 & JUN 14, 1990 05h 55m 34.74s
 63.154 N 150.820 W
 DEPTH = 134.4km
 CENTRAL ALASKA (1)
 <AGS-P>.

KTH	0.40	354 iP	55 53.77	-0.4
CUT	0.79	161 eP	55 56.07	-0.4
SKT	1.22	196 iP	56 00.02	-0.5
PWA	1.57	163 iP	56 04.16	-0.1
GHO	1.64	147 iP	56 04.77	-0.4
SUA	1.70	179 iP	56 06.27	0.4
PLRM	1.75	153 eP	56 05.56	-0.8
SML	1.78	138 iP	56 05.82	-0.9
NCG	1.86	200 iP	56 07.57	-0.3
PMS	2.01	162 iP	56 08.94	-0.5

10 obs. associated
 JUN 14, 1990 06h 28m 34.93 ± 0.20s
 18.211 N ± 3.9km 147.197 E ± 4.4km
 DEPTH = 23.5km (3 depth phases)
 5.1mb (25 obs.) 5.0MsZ (9 obs.)
 MARIANA ISLANDS REGION (215)
 Ms 4.7 (BRK).
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 9S, 15C
 Centroid Location:
 Origin Time 06:28:41.8 1.0
 Lat 18.14N 0.17 Lon 147.42E 0.06
 Dep 15.0 FIX Half-duration 1.6
 Moment Tensor: Scale 10¹⁶ Nm
 Mrr = 7.03 0.49 Mlt = 1.09 0.72
 Mff = -8.12 0.49 Mrt = 1.07 1.64
 Mrf = 6.09 2.29 Mtf = 3.55 0.56
 Principal Axes:
 T Val = 9.76 Plg = 64 Azm = 306
 N 1.26 19 171
 P -11.02 17 75

Table with columns for station code, time, and coordinates. Includes stations like WMQ, GKN, DMN, PKI, SHL, HYB, GTA, GBA, GYA, TIY, SUF, NUR, KRA, SOD, SSE, KEV, UPP, KSP, PRU, HFS, KHC, CLL, NAO, SMF, AVF, MAF, TCF, EKA, DAG, MBC, INK, FBA, YKA, WB5, WRA, FFC, EDM.

S.D. = 1.1 on 34 of 41 obs.
JUN 14, 1990 07h 40m 56.21 ± 0.17s
11.760 N ± 3.9km 121.899 E ± 3.9km
DEPTH = 18.1km (geophysicist)
6.0mb (88 obs.) 7.1Msz (30 obs.)
PANAY, PHILIPPINE ISLANDS (254)
Ms 6.8 (BRK). Mo=6.0*10**19 Nm (PPT). At least four people killed, 15 injured in the Culosi area. Considerable damage in other parts of Panay. Felt (VI RF) at Iloilo; (V RF) at Bacolod, Negros and on Cebu; (III RF) on Camiguin; (II RF) at Sorsogon and (I RF) at Manila, Luzan. Depth from broadband displacement seismograms.
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=28 Dip=88 Slip=-180
NP2: 118 90 -358
Principal Axes:
T P1g=1 Azm=343

Table with columns for station code, time, and coordinates. Includes stations like QCP, BAC, DAV, KKM, MNI, HKC, MCO, ANP, QZH, OIZ, BKB2, GZH, AA1, MKS, SSE, WHN, LOE, NJ2, GYA, KGM, TRT.

Table with columns for station code, time, and coordinates. Includes stations like SNG, NST, NNT, KLM, IPM, KMI, GUMO, PJG, GUA, BDT, CHG, PSI, TSI, PPI, SHK, TIA, XAN, CD2, MTN, DL2, N, E, TIY, MNDI, KNA, BJI, MAT, LZH, SNY, HHC, N, BTO, SHL, CN2, N, E, MDJ, LSA, N, WB5.

P 1 253
Comment: The focal mechanism is poorly controlled and corresponds to strike-slip faulting. The preferred fault plane is not determined.

MOMENT TENSOR SOLUTION
Dep 20 No. of sto: 8
Moment Tensor; Scale 10**19 Nm
Mrr= 0.46 Mtt= 3.29
Mff=-3.74 Mrt=-0.17
Mrf= 0.55 Mtf= 0.55

Principal axes:
T Val= 3.34 P1g= 3 Azm=176
N 0.52 82 285
P -3.86 7 85
Best Double Couple:Mo=3.6*10**19
NP1:Strike=221 Dip=83 Slip=-177
NP2: 130 87 -7

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 32C M.W.: 12S, 30C
Centroid Location:
Origin Time 07:41: 0.1 0.2
Lot 11.70N 0.01 Lon 121.86E 0.02
Dep 15.0 FIX Half-duration 15.0
Moment Tensor; Scale 10**19 Nm
Mrr=-0.83 0.04 Mtt= 4.92 0.04
Mff=-4.09 0.04 Mrt=-0.13 0.33
Mrf= 1.07 0.34 Mtf= 0.31 0.03

Principal Axes:
T Val= 4.94 P1g= 1 Azm=178
N -0.51 73 271
P -4.42 17 88
Best Double Couple:Mo=4.7*10**19
NP1:Strike=224 Dip=78 Slip=-169
NP2: 132 79 -13

2.97 344 eP 41 44.00 0.7
4.80 345 iP+ 42 10.00 0.5
5.89 142 eP 42 22.00 -2.7
7.99 225 ePd 42 54.00 -0.3
0.6s 79.60nm 6.1mb X
e 44 10.50

10.66 164 ePd 43 25.00 -6.1X
12.82 326 P 44 02.00 1.7
13.03 323 eP 44 05.60 2.5
13.36 358 iP 44 08.00 0.5
13.48 347 eP 44 06.00 -3.1X
6.0s *****nm 7.2mb X
E 24s 1917.00um
sP 44 22.00
iS 46 41.00
13.68 303 Pc 44 11.80 0.0

N 14s 1248.00um
E 15s 14.00um
iS 46 44.00
13.86 201 iPd 44 25.00 10.9X
1.4s 2055.30nm
13.90 325 iPc 44 15.00 0.4
N 15s 1129.00um
E 15s 1142.00um
iS 46 52.00

16.57 157 ePd 44 50.00 1.4
17.04 188 iPc 44 54.50 -0.7
1.0s 443.80nm 5.5mb
19.25 358 iPc 45 22.00 -0.5
1.2s 670.00nm 5.8mb
N 20s 708.00um
E 19s 330.00um
sP 45 34.00
PP 45 42.00

19.96 341 iPc 45 30.50 0.2
sP 45 39.00
iS 49 12.00
20.30 288 eP 45 33.00 -1.1
20.39 353 iPc 45 35.00 0.2
8.0s *****nm 6.5mb X
N 28s 1333.00um
E 21s 2025.00um
S 49 20.00
20.49 318 Pc 45 40.00 4.0X
N 12s 466.00um
E 12s 287.00um
20.81 244 ePd 45 39.40 0.1
1.5s 1994.10nm 6.3mb
21.42 206 iPd 45 40.60 -4.9X

14d 10h

60.301 N ± 5.5km 5.339 E ± 8.5km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN NORWAY (535)
 MD 3.7 (BER).
 BER 0.08 358 iPd 00 48.80 -0.1
 ASK 0.20 339 iPc 00 50.81 0.1
 ODD1 0.75 121 eP 01 00.68 -0.5
 SUE 0.81 340 iP 01 01.76 -0.3
 HYA 0.96 25 iPd 01 05.00 0.3
 KMY 1.09 182 iP 01 07.19 0.3
 NRA0 3.10 79 P 01 36.50 0.3
 Lg 02 22.70
 S.D. = 0.4 on 7 of 7 obs.

? JUN 14, 1990 10h 14m 48.53 ± 0.74s
 6.085 N ± 10.5km 126.576 E ± 28.4km
 DEPTH = 33.0km (normol)
 4.2mb (3 obs.)
 MINDANAO, PHILIPPINE ISLANDS (259)
 MNI 4.93 201 ePd 16 02.20 0.0
 WRA 26.97 164 Pd 20 33.90 4.6X
 0.4s 1.30nm 3.9mb
 OIS 29.41 155 eP 20 51.50 0.2
 STK 40.38 160 eP 22 25.00 -0.1
 0.6s 3.00nm 4.2mb
 BRS 41.83 144 iPd 22 29.00 -8.1X
 FBA 82.67 25 P 27 10.50 0.6
 INK 88.04 21 eP 27 36.00 -0.5
 MBC 89.70 13 eP 27 45.00 0.7
 YKA 97.43 24 eP 28 19.00 -0.9
 0.7s 1.60nm 4.7mb
 S.D. = 0.7 on 7 of 9 obs.

* JUN 14, 1990 10h 34m 38.79 ± 1.37s
 11.571 N ± 19.2km 122.470 E ± 11.7km
 DEPTH = 33.0km (normol)
 4.8mb (2 obs.)
 PANAY, PHILIPPINE ISLANDS (254)
 OCP 3.34 336 eP 35 40.00 10.1X
 BAG 5.15 339 eP 36 00.20 4.4X
 OIZ 14.25 303 eP 38 01.00 0.6
 SSE 19.47 357 eP 39 05.50 -0.3
 WHN 20.33 339 eP 39 16.50 1.6
 NJ2 20.65 351 eP 39 17.50 -0.8
 GYA 21.00 317 P 39 16.40 -5.7X
 KMI 23.03 309 Pc 39 35.00 -7.4X
 1.5s 100.00nm 5.1mb
 CHTO 23.80 290 P 39 50.00 0.3
 TIA 25.00 350 eP 40 02.00 0.8
 XAN 25.56 333 P 40 05.00 -1.5
 TIY 27.54 343 eP 40 25.00 0.3
 BJI 28.90 350 eP 40 36.00 -0.7
 SNY 30.16 2 Pc 40 48.30 0.3
 CN2 32.22 4 eP 41 06.00 -0.1
 WRA 33.43 159 Pd 41 37.40 20.5X
 0.7s 1.60nm
 MDJ 33.49 9 Pd 41 18.00 0.8
 GTA 34.25 328 eP 41 22.50 -1.5
 FBA 79.50 26 P 46 44.00 0.6
 INK 84.45 21 eP 47 09.00 -0.1
 MBC 85.25 12 eP 47 13.00 0.0
 YKA 94.06 23 eP 47 54.40 -0.4
 0.9s 1.90nm 4.5mb
 S.D. = 0.9 on 17 of 22 obs.

JUN 14, 1990 11h 37m 12.91 ± 0.59s
 79.035 N ± 7.1km 2.048 E ± 9.6km
 DEPTH = 10.0km (geophysicist)
 4.4mb (6 obs.)
 GREENLAND SEA (640)
 KBS 1.90 89 iPc 37 43.90 -1.7
 JNW 8.47 204 iP 39 16.90 -1.5
 JNE 8.50 203 iP 39 17.50 -1.2
 JMI 8.59 204 iP 39 18.60 -1.5
 IS 40 50.00

AKU 14.57 215 eP 40 48.80 8.2X
 1.0s 16.00nm 4.6mb
 SUF 17.90 142 iP 41 32.80 9.8X
 NRA0 18.63 165 Pn 41 34.40 2.4X
 MBC 21.71 326 eP 42 05.00 -0.2
 1.5s 10.00nm 4.0mb
 FRB 24.85 274 eP 42 36.00 -0.1
 LOR 31.89 178 eP 43 40.60 0.6
 SSF 32.10 178 eP 43 42.70 0.9
 LBF 32.18 178 eP 43 43.40 0.9
 0.8s 4.70nm 4.5mb
 AVF 32.37 178 eP 43 45.10 1.0
 0.9s 4.90nm 4.4mb
 BGF 32.60 179 eP 43 47.30 1.2
 0.9s 9.85nm 4.7mb
 MAF 32.94 179 eP 43 50.20 1.2
 YKA 33.96 312 eP 43 57.00 -0.8
 1.1s 2.00nm 4.0mb
 SES 45.08 304 eP 45 31.00 0.7
 LRM 49.75 304 eP 46 07.30 0.2
 KVN 57.25 307 P 47 02.90 0.3
 S.D. = 1.1 on 16 of 19 obs.

JUN 14, 1990 11h 49m 01.35 ± 0.43s
 11.490 N ± 6.0km 122.281 E ± 7.3km
 DEPTH = 16.9km (2 depth phases)
 5.0mb (16 obs.) 4.5msz (2 obs.)
 PANAY, PHILIPPINE ISLANDS (254)
 OCP 3.34 340 eP 49 55.00 1.1
 BAG 5.16 342 eP 50 21.10 1.2
 DAV 5.45 143 eP 50 25.30 1.5
 1.2s 625.00nm 6.1mb X
 KKM 8.07 228 ePc 50 58.50 -2.3
 QZH 13.83 346 eP 52 20.00 1.1
 Z 18s 2.10um
 E 13s 1.10um
 OIZ 14.14 303 eP 52 31.00
 N 12s 1.40um
 E 14s 2.90um
 55 07.00
 53 02.00 4.1X
 53 32.00 0.9
 1.2s 80.00nm 4.9mb
 Z 20s 1.40um 4.3msz
 E 14s 0.90um
 S 57 10.00
 WHN 20.34 340 ePc 53 40.50 0.9
 1.5s 100.00nm 4.9mb
 Z 20s 1.30um 4.3msz
 N 18s 3.00um
 E 11s 0.70um
 eS 57 20.00
 NJ2 20.71 352 Pd 53 44.00 0.6
 Z 14s 0.50um 4.0msz X
 N 15s 0.90um
 E 12s 0.90um
 eS 57 28.00
 LOE 20.74 289 eP 53 44.00 0.1
 GYA 20.94 318 P 53 46.80 0.8
 KGM 21.03 245 eP 53 48.50 1.6
 KAGJ 21.16 21 eP 53 48.60 0.6
 IPM 22.13 254 ePd 53 58.70 0.8
 1.2s 79.30nm 5.0mb
 KUMJ 22.37 19 eP 54 00.20 0.0
 KMI 22.94 309 Pc 54 04.50 -1.6
 2.0s 100.00nm 5.0mb
 Z 14s 1.80um 4.7msz X
 N 14s 1.20um
 E 14s 1.00um
 sP 54 11.50
 54 15.00 2.1
 CHG 23.66 291 eP 54 15.00 2.1
 1.1s 32.59nm 4.8mb
 SHNJ 23.93 18 eP 54 15.70 0.4
 TIA 25.05 350 Pc 54 26.40 0.2
 Z 24s 0.80um 4.1msz X
 E 13s 0.60um
 eS 58 53.00
 XAN 25.55 334 P 54 29.20 -1.8
 MTN 25.72 160 eP 54 32.00 -0.7
 DL2 27.31 359 eP 54 46.80 -0.2
 1.0s 50.00nm 5.2mb
 Z 16s 0.05um 3.2msz X
 N 13s 0.78um
 eS 59 30.00
 TIY 27.56 343 eP 54 49.00 -0.5

Z 20s 2.10um 4.7msz
 N 17s 1.50um
 pP 54 54.50 19km
 MTMJ 28.64 27 P 54 58.30 -1.0
 CHJJ 28.75 29 P 54 58.30 -1.8
 MAT 28.79 27 eP 54 58.00 -2.5
 1.5s 41.67nm 5.0mb
 BJI 28.94 350 eP 55 01.00 -0.8
 1.0s 39.00nm 5.1mb
 LZH 29.62 329 eP 55 09.80 1.6
 1.4s 41.00nm 5.0mb
 pP 55 14.00 15km
 SNY 30.24 2 Pc 55 12.80 -0.6
 1.0s 100.00nm 5.6mb
 8TD 30.95 342 eP 55 22.00 2.2
 N 17s 1.70um
 E 17s 1.90um
 eS 00 21.00
 CN2 32.31 4 P 55 31.00 -0.6
 WB5 33.37 159 eP 55 34.60 -6.4X
 WRA 33.42 159 Pd 55 40.10 -1.4
 0.6s 2.40nm 4.3mb
 MDJ 33.60 9 iPc 55 42.50 -0.3
 1.2s 100.00nm 5.6mb
 LSA 34.15 307 P 55 47.60 -0.7
 GUN 37.78 301 P 56 17.70 -1.3
 PKI 38.07 300 P 56 19.60 -1.8
 DMN 38.34 300 P 56 21.90 -1.7
 GKN 38.85 301 P 56 25.90 -1.9
 HYB 42.68 283 eP 57 01.00 1.7
 GBA 43.78 278 Pd 57 12.20 4.1X
 1.1s 17.20nm 4.8mb
 WMQ 43.89 324 eP 57 10.00 1.2
 ADE 48.76 162 e(P) 57 43.00 -4.3X
 QUE 54.42 299 eP 58 28.70 -1.7
 DZM 54.67 128 iPd 58 34.80 2.7
 MAIO 61.39 305 eP 59 18.00 -1.2
 FBA 79.66 26 P 01 08.20 -1.0
 KEV 81.13 339 eP 01 18.00 1.1
 SUF 82.68 332 eP 01 25.00 -0.1
 NUR 83.82 330 eP 01 32.00 1.0
 INK 84.59 21 eP 01 34.00 -0.7
 1.1s 37.00nm 5.5mb
 MBC 85.37 12 eP 01 38.00 -0.5
 1.0s 7.00nm 4.8mb
 MLR 86.30 316 eP 01 46.00 2.1
 YKA 94.21 23 eP 02 19.20 -1.3
 0.9s 6.90nm 5.1mb
 ZOBO 168.84 116 PKP 09 11.00 1.1
 SIV 174.47 144 PKP 09 12.80 1.0
 S.D. = 1.4 on 52 of 57 obs.

% JUN 14, 1990 12h 24m 31.14 ± 1.17s
 39.161 N ± 8.3km 29.616 E ± 14.7km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)
 KHL 0.84 185 iPg 24 46.50 -0.9
 eSg 24 57.50
 IZI 1.18 355 ePn 24 51.70 -1.5
 GPA 1.25 25 ePn 24 55.50 1.2
 YLV 1.42 352 iPn 24 55.70 -1.3
 KCT 1.46 319 iPn 24 56.20 -1.3
 HRT 1.66 1 ePg 25 02.00 1.6
 EDC 1.80 312 ePn 25 03.30 0.9
 IZM 1.99 248 ePn 25 06.60 1.3
 S.D. = 1.6 on 8 of 8 obs.

JUN 14, 1990 12h 47m 28.82 ± 0.10s
 47.869 N ± 2.3km 85.076 E ± 1.8km
 DEPTH = 57.9km (geophysicist)
 6.1mb (89 obs.)
 KAZAKH-XINJIANG BORDER REGION (331)
 mb 6.5 (PAS). Ms 6.6 (BRK), 6.4 (PAS). One person killed, 3,000 houses destroyed and 20,000 people left homeless in the Ust-Kamenogorsk-Zaysan area, USSR. Damage in Jeminay and Habahe Counties, China. Felt (V) at Novosibirsk, Semipolatsinsk and Ust-Kamenogorsk and (III) at Andizhan and Frunze, USSR. Also felt at Urumqi, China. Depth from broadband displacement seismograms.
 FAULT PLANE SOLUTION: P-Waves

NP1:Strike=292 Dip=83 Slip= 157
NP2: 25 67 8
Principal Axes:

T Plg=21 Azm=246
P 11 340

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

RADIATED ENERGY
No. of sto: 8 Focal mech. F
Energy 3.6±1.0*10**14 Nm

MOMENT TENSOR SOLUTION
Dep 46 No. of sto: 14
Moment Tensor; Scale 10**18 Nm
Mrr= 0.81 Mtt=-6.15
Mff= 5.34 Mrt=-4.62
Mrf= 3.38 Mtf=-2.69

Principal axes:
T Val= 8.63 Plg=32 Azm=249
N -0.11 48 116
P -8.52 25 355

Best Double Couple:Mo=8.6*10**18
NP1:Strike= 35 Dip=48 Slip= 6
NP2: 301 86 138

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 39C M.W.: 11S, 25C

Centroid Location:
Origin Time 12:47:32.6 0.2
Lot 47.88N 0.02 Lon 85.19E 0.04

Dep 36.0 BDY Half-duration 8.4
Moment Tensor; Scale 10**18 Nm
Mrr= 3.33 0.15 Mtt=-7.97 0.15
Mff= 4.64 0.16 Mrt=-3.82 0.34
Mrf= 2.13 0.30 Mtf=-5.44 0.15

Principal Axes:
T Val= 8.85 Plg=33 Azm=244
N 1.75 54 89
P -10.60 12 342

Best Double Couple:Mo=9.7*10**18
NP1:Strike= 28 Dip=58 Slip= 16
NP2: 289 76 147

WMO 4.44 155 iPd 48 35.20 -0.1
KSH 10.68 221 P 50 01.60 0.0
IRK 13.11 63 iPc 50 34.00 0.1

GTA 13.60 123 P 50 35.10 -5.4X
1.0s 100.00nm 5.5mb
Z 18s 1353.00um
N 10s 699.00um

DSH 15.07 238 iPc 50 57.00 -2.6
LZH 18.20 123 iPd 51 38.00 -1.0
2.0s 1290.00nm 5.8mb

LSA 18.74 163 iP 51 47.00 1.2
pP 51 50.00
iS 54 56.00
sS 55 12.00
SS 55 22.00

BTO 19.24 103 P 51 49.00 -2.2
sP 52 03.00
S 55 17.00

GKN 19.84 181 P 51 56.80 -0.8
GUN 19.94 178 P 51 58.20 -0.7
NDI 20.10 200 iPc 51 57.50 -2.7
1.2s 1218.75nm 6.1mb

HHC 20.13 101 iPc 52 00.00 -0.6
1.4s 200.00nm 5.3mb
N 11s 382.00um

DMN 20.23 180 P 52 00.80 -1.0
PKI 20.27 179 P 52 01.60 -0.7
MAIO 22.12 248 iPc 52 19.80 -0.9
eS 55 59.00

CD2 22.16 133 iPd 52 21.50 0.4
N 10s 357.00um

TIY 22.39 107 iPd 52 23.50 0.2
1.3s 600.00nm 5.9mb

QUE 22.49 225 iPc+ 52 22.90 -1.6
pP 52 39.00 68kmX
eS 56 34.00

XAN 22.58 119 P 52 24.50 -0.7
1.0s 100.00nm 5.2mb
E 17s 231.00um

SHL 22.90 164 iP 52 28.00 -0.5
BJI 23.60 98 eP 52 36.00 1.1
2.0s 550.00nm 5.7mb
N 10s 476.00um

TIA 26.31 104 Pc 53 01.90 1.3
8.0s 8400.00nm 6.3mb X
N 12s 589.00um
E 12s 434.00um

KMI 26.65 142 P- 53 04.00 -0.1
N 14s 178.60um

GYA 27.27 134 iPc 53 09.00 -0.6
N 12s 311.00um
E 12s 327.00um

SNY 27.74 80 iPc 53 13.00 -0.6
1.6s 900.00nm 6.1mb
N 10s 468.00um
E 10s 204.00um

DL2 27.81 95 Pc 53 15.00 0.7
9.0s 1100.00nm 5.5mb X
N 10s 213.00um
E 12s 161.00um

CN2 28.19 83 iPc 53 17.00 -0.6
1.0s 200.00nm 5.7mb
N 15s 250.00um
E 15s 296.00um

WNN 28.29 117 ePd 53 18.50 -0.1
1.0s 100.00nm 5.4mb
N 15s 521.00um

TAB 29.72 265 eP 53 33.00 1.4
i 53 35.00 7kmX
BKR 29.84 274 iPc 53 32.00 -0.7
iS 58 30.00

NJ2 30.04 109 Pd 53 34.00 -0.3
1.4s 100.00nm 5.4mb
N 11s 318.00um
E 13s 320.00um

OBN 30.50 302 ePc 53 37.20 -0.9
Z 16s 53.00um 6.3mszX
iS 58 32.00

BOM 30.58 203 ePd 53 39.10 0.0
iS 58 37.40
MDJ 30.64 79 iPc 53 39.50 0.1
7.0s 1200.00nm 5.7mb X
N 10s 256.00um

POD 30.66 201 iPc 53 39.00 -0.9
0.8s 177.61nm 5.8mb
iS 59 20.00

HYB 30.84 192 iPc 53 40.40 -1.1
1.0s 168.00nm 5.7mb
eS 58 40.00

CHG 31.11 154 ePc 53 43.00 -0.8
1.0s 96.00nm 5.5mb

CHTO 31.11 154 eS 58 48.00
ePc 53 42.75 -1.1
epPd 53 55.33 49kmX

TIK 31.21 25 iPd 53 42.20 -1.9
eS 58 43.50
KER 31.30 258 iPc 53 45.50 -0.1
SSE 32.16 108 Pd 53 53.00 0.1
1.5s 170.00nm 5.7mb
N 16s 246.00um
E 14s 173.00um

APA 32.57 326 iPd 53 40.00 -16.0X
iS 59 00.00
BDT 32.61 155 eP 53 57.00 0.1
1.0s 303.60nm 6.1mb

GZH 33.45 128 Pd 54 04.00 -0.2
PP 54 15.50
iS 59 19.00

PUL 33.46 311 iPd 54 03.00 -0.9
iS 59 18.00
MCO 34.35 128 eP 54 13.00 1.0
NST 34.43 154 iPc 54 12.00 -0.7
HKC 34.53 127 iPd 54 15.20 1.7
iS 59 43.00

BRF 34.68 244 iP 54 14.10 -0.7
0.6s 814.00nm 6.8mb
SIM 34.74 285 iPc 54 15.00 -0.1
iS 59 42.00

GBA 34.75 193 Pd 54 14.90 -0.5
0.8s 189.40nm 6.1mb
DHR 34.78 244 iPc 54 15.50 -0.1
QZH 34.95 119 eP 54 16.00 -1.0

E 16s 333.00um
pP 54 28.00 45kmX
S 59 40.00
SS 02 04.00

SOD 35.10 325 iP 54 16.70 -1.3
QIZ 35.12 136 P 54 18.00 -0.5
N 12s 194.00um

KEV 35.21 329 iPd 54 17.36 -1.4
1.0s 710.00nm 6.6mb
iPc 54 32.43 59kmX
eHPP 55 36.16
ePP 55 37.15
eScP 59 22.18

SUF 35.28 317 iP 54 18.30 -1.2
0.7s 195.50nm 6.1mb
NUR 36.20 313 iP 54 26.00 -1.3
eS 59 52.00
iS 54 28.66 -0.8

KTK1 36.47 328 iPc 54 28.66 -0.8
ANP 36.52 115 eP 54 44.00 13.6X
eS 00 12.00

KAS 36.52 279 iPc 54 31.20 0.9
NNT 37.24 156 eP 54 31.70 -4.7X
SHK 37.63 93 eP 54 41.00 1.4
BBTK 37.93 278 eP 54 43.00 0.8

TRO 38.01 329 eP 54 42.20 -0.1
KOD 38.06 192 eP 54 43.00 -0.6
eS 00 36.80

IAS 38.06 291 eP 54 45.00 2.0
RYD 38.10 246 iPc 54 43.50 -0.2
MJMA 38.11 249 iPc 54 42.70 -1.0
YSS 38.21 69 iPc 54 44.00 -0.3
iS 56 20.00

PPE 38.41 290 ePc 54 46.00 0.0
CLI 38.49 290 iPc 54 47.00 0.3
CFR 38.50 288 eP 54 47.00 0.3
TLB 38.83 287 ePc 54 50.00 0.5

SHBJ 38.88 264 Pc 54 57.80 7.6X
PTT 38.90 291 eP 54 51.00 0.9
QASM 39.05 251 iPc 54 51.50 -0.1
VR1 39.12 289 ePc 54 52.00 0.0

PSN 39.13 286 iPd 54 53.00 0.9
GPA 39.34 280 iP 54 54.00 0.1
HRT 39.51 281 iP 54 54.70 -0.5
GBZT 39.67 281 eP 54 57.00 0.5

RTRS 153.66 303 e(PKP)07 24.00 9.9X	MDW 7.43 70 P 29 20.85 -0.2	GKN 19.86 181 Pc 22 41.40 -0.1
e 07 26.00	NLW 7.53 58 P 29 22.15 -0.4	0.6s 26.00nm 4.7mb
e 07 37.50	WAH2 7.59 69 P 29 23.38 0.1	KKN 20.87 179 Pc 22 42.60 -1.2
RTLL 153.95 300 e(PKP)07 18.80 4.3X	GBL 7.63 71 P 29 23.83 0.0	NDI 20.12 200 iPc 22 42.60 -1.4
e 07 20.70	CRF 7.73 69 P 29 25.12 -0.1	0.8s 100.75nm 5.2mb
e 07 36.80	EPH 7.73 65 P 29 24.84 -0.5	iS 26 18.60
CFA 154.01 299 e(PKP)07 14.90 0.3	SAW 7.97 63 P 29 27.48 -1.2	HHC 20.16 101 eP 22 44.00 -0.5
ZON 154.23 300 e(PKP)07 27.00 12.1X	DPW 8.79 63 P 29 38.61 -1.4	Z 20s 5.70um 4.9msz
ROCH 156.62 301 ePKP 07 19.00 0.7	YKA 20.08 21 eP 32 05.50 -0.6	eS 26 28.00
TACH 157.06 300 ePKP 07 19.50 0.9	0.9s 5.40nm 3.9mb	DMN 20.25 180 Pc 22 45.60 -0.1
LNV 157.55 300 iPKP 07 20.40 1.3	FFC 20.65 50 iPc 32 12.20 0.2	PKI 20.29 179 Pc 22 46.20 0.0
S.D. = 1.0 on 501 of 573 obs.	0.7s 16.00nm 4.5mb	MA10 22.11 248 eP 23 06.00 1.7
JUN 14, 1990 13h 27m 29.99±1.01s	ZOBO 82.52 121 P 39 55.20 0.2	eS 27 27.00
44.517 N ± 5.8km 129.914 W ± 7.6km	S.D. = 0.5 on 78 of 78 obs.	CD2 22.19 133 eP 23 06.00 0.9
DEPTH = 10.0km (geophysicist)	? JUN 14, 1990 13h 55m 10.49±6.72s	TIY 22.41 107 iPc 23 07.50 0.2
4.2mb (2 obs.)	43.025 N ±14.6km 0.192 W ±41.5km	Z 15s 300.00nm 5.6mb
OFF COAST OF OREGON (30)	DEPTH = 10.0km (geophysicist)	Z 15s 2.10um 4.7mszX
GROR 4.52 77 P 28 39.59 -0.5	PYRENEES (378)	QUE 22.49 225 iPd 23 07.80 -0.4
KMOR 4.69 74 P 28 41.48 -1.0	MD 1.0 (STR).	XAN 22.61 119 Pc 23 09.00 -0.2
NLO 4.82 69 P 28 44.78 0.3	JAU 0.13 276 Pg 55 13.75 0.0	SHL 22.93 164 iP 23 12.50 0.0
ONR 4.91 59 P 28 45.88 0.3	OGE 0.25 305 Pg 55 15.88 0.0	BJI 23.62 98 eP 23 20.50 1.6
OBH 5.07 54 P 28 47.74 -0.1	ESCF 0.29 281 Pg 55 16.48 0.0	2.0s 330.00nm 5.5mb
BMW 5.09 65 P 28 47.61 -0.6	Sg 55 18.74	sP 23 35.50
OOV 5.12 49 P 28 48.70 0.2	LHE 0.33 251 Pg 55 17.41 0.0	TIA 26.33 104 Pc 23 45.60 0.9
OFK 5.16 46 P 28 49.40 0.3	Sg 55 20.90	KMI 26.68 142 Pc 23 47.50 -0.7
OTR 5.25 45 P 28 50.95 0.5	ATE 0.38 280 Pg 55 18.04 -0.2	1.0s 100.00nm 5.4mb
OSP 5.27 42 P 28 51.48 0.8	Sg 55 22.16	GYA 27.29 134 iPc 23 53.60 -0.1
RVW 5.31 70 P 28 51.13 -0.2	ISSF 0.44 271 Pg 55 19.78 0.2	1.0s 90.00nm 5.4mb
CPW 5.34 60 P 28 51.39 -0.4	Sg 55 24.54	SNY 27.76 88 iPc 23 57.20 -0.4
OBC 5.36 47 P 28 52.27 0.2	S.D. = 0.2 on 6 of 6 obs.	0.8s 40.00nm 5.1mb
PGO 5.38 77 P 28 52.90 0.7	* JUN 14, 1990 14h 02m 02.14±0.55s	CN2 28.21 83 Pc 24 01.20 -0.5
GT2 5.47 81 P 28 53.90 0.3	7.004 S ±10.3km 125.074 E ±12.1km	WHN 28.32 117 Pc 24 02.50 -0.2
LVP 5.52 71 P 28 53.71 -0.6	DEPTH = 567.0 ± 9.6 km	0.7s 40.00nm 5.2mb
APW 5.53 65 P 28 53.98 -0.4	5.0mb (5 obs.)	pP 24 16.00 54kmX
CZM 5.55 67 P 28 54.22 -0.5	BANDA SEA (280)	NJ2 30.06 109 Pd 24 18.50 0.1
FL2 5.59 70 P 28 55.21 -0.1	AAI 4.53 43 eP 03 30.50 0.7	1.0s 40.00nm 5.2mb
ERK 5.62 69 P 28 55.22 -0.6	eS 04 37.50	MDJ 30.65 79 eP 24 23.20 -0.3
MTMW 5.64 72 P 28 55.59 -0.4	MKS 5.85 287 iPc 03 41.80 0.9	POO 30.68 201 eP 24 24.00 0.0
STW 5.65 48 P 28 56.08 0.1	MTN 8.32 135 iPd 04 03.00 -1.3	CHG 31.14 154 ePc 24 27.90 -0.1
VLMW 5.67 77 P 28 56.75 0.3	KNA 9.41 158 iPd 04 13.80 -1.3	0.9s 42.23nm 5.2mb
STD 5.68 70 P 28 56.49 -0.2	0.4s 47.00nm 5.0mb	SSE 32.18 108 Pd 24 37.40 0.4
HSR 5.70 70 P 28 57.15 0.3	WB5 15.66 146 iPc 05 17.00 -0.3	1.0s 40.00nm 5.3mb
REMWW 5.70 70 P 28 57.96 1.0	eS 07 58.00	sP 24 52.00
YEL 5.70 70 P 28 57.56 0.6	WRA 15.69 146 Pc 05 17.60 -0.1	BDT 32.64 155 ePc 24 41.00 -0.1
HDW 5.71 54 P 28 56.63 -0.3	0.7s 39.60nm 5.0mb	1.0s 48.30nm 5.3mb
JLK 5.71 71 P 28 57.66 0.7	QLP 26.68 139 iPc 06 58.50 0.1	LOE 33.34 150 eP 24 46.00 -1.2
TDL 5.72 69 P 28 56.76 -0.4	STK 29.16 150 iPc 07 20.10 0.2	GZH 33.48 128 Pd 24 48.00 -0.4
ESD 5.72 70 P 28 57.45 0.2	0.5s 39.00nm 5.3mb	GBA 34.77 193 Pd 24 59.00 -0.5
MEW 5.74 60 P 28 58.24 0.9	RMQ 29.72 133 iPc 07 24.50 -0.4	0.7s 45.90nm 5.5mb
SOSW 5.77 70 P 28 57.48 0.0	BRS 33.19 131 iPd 07 58.20 4.1X	SOD 35.08 325 iP 25 01.70 0.0
LMW 5.77 65 P 28 57.89 0.2	BWA 34.76 145 eP 08 09.20 2.0	QIZ 35.14 136 Pc 25 02.60 -0.1
KOSW 5.77 68 P 28 57.53 -0.2	CAN 35.74 145 eP 08 16.20 1.0	KEV 35.18 329 iP 25 02.50 0.0
CDFW 5.77 71 P 28 57.52 -0.3	DZM 42.59 115 iPc 09 10.80 0.1	SUF 35.25 317 iP 25 03.30 0.1
GMW 5.81 56 P 28 58.23 -0.1	MAT 45.03 15 eP 09 29.00 -0.4	0.7s 14.40nm 5.0mb
TDH 5.82 80 P 28 58.57 0.0	0.8s 8.21nm 4.3mb	NUR 36.17 313 iP 25 11.00 0.0
GHW 5.91 62 P 28 59.92 0.3	GUN 51.36 314 P 10 17.20 -0.2	0.7s 25.40nm 5.3mb
VLL 5.92 78 P 29 00.24 0.4	PKI 51.50 314 P 10 17.80 -0.6	KTK1 36.44 328 iPc 25 13.25 0.1
BLN 5.94 52 P 29 00.71 0.5	DMN 51.74 313 P 10 19.90 -0.1	KAS 36.50 279 iPc 25 16.20 2.1
APM 5.95 75 P 29 00.82 0.5	0.7s 27.00nm 4.8mb	TRO 37.98 329 eP 25 26.50 0.4
VBEM 5.95 82 P 29 01.16 0.8	GKN 52.30 314 P 10 23.60 -0.4	KOD 38.08 192 eP 25 28.00 0.2
GULW 6.04 74 P 29 01.83 0.2	S.D. = 0.9 on 17 of 18 obs.	CFR 38.48 288 eP 25 41.00 10.5X
VFP 6.05 79 P 29 01.92 0.1	JUN 14, 1990 14h 18m 10.62±0.12s	VRI 39.10 289 ePd 25 36.50 0.7
RVC 6.07 64 P 29 02.29 0.4	47.892 N ± 3.0km 85.050 E ± 2.5km	TSRJ 39.29 89 P 25 37.60 0.1
PGC 6.08 45 eP 29 00.00 -1.9	DEPTH = 37.1km (50 depth phases)	UPP 39.74 313 iP 25 41.00 0.2
0.4s 84.00nm 5.9mb X	5.2mb (74 obs.) 5.0msz (2 obs.)	i 25 51.50 37km
ASR 6.09 72 P 29 02.03 -0.3	KAZAKH-XINJIANG BORDER REGION (331)	MLR 39.76 289 eP 25 42.50 1.1
SPW 6.14 58 P 29 03.67 0.8	WMQ 4.47 155 iPc 19 20.20 2.4	LFK 39.83 271 eP 25 42.00 0.0
GLK 6.18 68 P 29 03.88 0.3	KSH 10.68 221 P 20 47.00 2.7	MTMJ 39.94 87 P 25 41.80 -1.1
FMW 6.25 64 P 29 04.53 -0.2	S 22 43.00	LOF 40.03 326 iPc 25 42.74 -0.4
WPW 6.26 67 P 29 04.96 0.2	GTA 13.63 123 iPd 21 21.10 -2.6	BURJ 40.09 265 Pd 25 41.50 -2.7
GSM 6.27 62 P 29 05.17 0.2	1.0s 100.00nm 5.6mb	MAT 40.23 86 eP 25 43.00 -2.2
OHW 6.37 51 P 29 06.32 0.2	Z 16s 5.80um 3.9mszX	0.9s 13.45nm 4.7mb
BLH 6.40 56 P 29 05.99 -0.6	LZH 18.23 123 Pd 22 22.00 -0.5	SALJ 40.31 265 Pd 25 43.10 -2.9X
MCW 6.41 47 P 29 06.80 0.0	1.2s 200.00nm 5.1mb	NIIJ 40.38 85 P 25 46.90 0.5
HTW 6.54 57 P 29 08.38 -0.3	Z 20s 5.70um 4.9msz	KFNJ 40.41 265 P 25 44.00 -2.7
JCW 6.64 54 P 29 10.18 0.2	N 10s 1.80um	CMP 40.43 289 ePc 25 50.00 3.3X
VIPM 6.65 87 P 29 09.28 -1.0	sP 22 37.00	BCK 40.60 276 eP 25 49.30 1.0
CMW 6.65 51 P 29 10.66 0.4	LSA 18.77 163 P 22 31.60 2.2	MKRJ 40.63 265 Pd 25 46.00 -2.6
NAC 6.75 68 P 29 11.78 0.2	BTO 19.26 103 eP 22 34.50 -0.4	CHJJ 41.03 86 P 25 50.40 -1.4
EBG 6.97 67 P 29 14.58 0.0	N 12s 1.70um	NSS 41.27 321 iP 25 54.24 0.9
MBW 6.97 49 P 29 15.24 0.4	E 12s 1.90um	KRA 41.58 298 eP 25 56.50 0.4
RPW 7.01 53 P 29 15.25 0.1		0.7s 56.00nm 5.4mb
TBM 7.03 65 P 29 15.87 0.4		e 26 07.90 41km
MXC 7.06 70 P 29 15.88 0.0		HFS 41.58 314 eP 25 55.70 -0.3
ETW 7.35 62 P 29 19.86 -0.2		0.7s 24.40nm 5.0mb
		KAKJ 41.74 85 P 25 56.30 -1.2
		SPC 41.74 297 eP 26 01.50 3.8X

Table with columns for station name, time, depth, and coordinates. Includes stations like FRI, PRI, RMO, STK, ABL, TKL, GBTN, BRS, RSCP, ANMO, ALQ, GLA, SIV, ZOBO.

& JUN 14, 1990 14h 37m 49.87s
63.371 N 151.247 W
DEPTH = 6.5km
CENTRAL ALASKA (1)
<AGS-P>

Table with columns for station name, time, depth, and coordinates. Includes stations like HUR, CUT, MCK, SKT, WRH, PWA, SUA, GHO, CCB, NCG, PLRM, SML, CGLM, CRP, PMS, SCM, SDG.

* JUN 14, 1990 14h 46m 51.86±0.83s
11.161 N ±12.7km 122.111 E ±11.7km
DEPTH = 33.0km (normal)
4.8mb (8 obs.)
PANAY, PHILIPPINE ISLANDS (254)

Table with columns for station name, time, depth, and coordinates. Includes stations like QIZ, GZH, WHN, NJZ, GYA, IPM, KMI, CHG, TIA, XAN, TIY, BJI, LZH, SNY, WB5, WRA, MDJ, GUN, PKI, DMN.

Table with columns for station name, time, depth, and coordinates. Includes stations like GKN, IMA, PMR, INK, YKA.

% JUN 14, 1990 15h 12m 03.73±0.66s
59.890 N ± 5.8km 6.196 E ± 6.9km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 1.4 (BER).

Table with columns for station name, time, depth, and coordinates. Includes stations like ODD1, BLS2, ASK, KMY, HYA, SUE, NRA0.

JUN 14, 1990 15h 28m 21.41±0.37s
24.976 N ± 6.5km 94.019 E ± 5.1km
DEPTH = 60.7km (2 depth phases)
4.5mb (11 obs.)
BURMA-INDIA BORDER REGION (294)

Table with columns for station name, time, depth, and coordinates. Includes stations like LSA, CHG, KMI, GYA, LZH, GTA, NDI, XAN, QIZ.

WHN 18.82 68 eP 32 44.00 5.1X
WMO 19.50 346 P 32 46.00 -0.4
POO 19.79 255 iPd 32 48.80 -0.8
TIY 20.17 47 eP 32 52.70 -0.7

Table with columns for station name, time, depth, and coordinates. Includes stations like BTO, WHN, WMO, POO, TIY, Z, BTO, N, E, IPM, KOD, HHC, TIA, BJI, QUE, SNY, CN2, MAT, MLR, WB5, WRA, UPP, KSP, HFS, PRU.

Table with columns for station name, time, depth, and coordinates. Includes stations like NAO, KHC, LPG, LPL, LBF, SSF, AVF, TCF, BCAA, KRI, BUL, INK, YKA.

? JUN 14, 1990 17h 08m 01.38±4.77s
31.342 S ±22.1km 68.537 W ±32.4km
DEPTH = 90.5 ± 45.7 km
SAN JUAN PROVINCE, ARGENTINA (137)

Table with columns for station name, time, depth, and coordinates. Includes stations like RTLL, RTCB, CFA, RTCV, RTRS.

% JUN 14, 1990 17h 32m 45.54±0.87s
39.862 N ± 7.3km 30.276 E ± 8.6km
DEPTH = 5.0km (geophysicist)
TURKEY (366)

Table with columns for station name, time, depth, and coordinates. Includes stations like GPA, IZI, YLV, HRT, KHL, BBTk, EDC.

JUN 14, 1990 19h 01m 30.42±1.29s
29.882 N ± 9.0km 138.761 E ± 6.5km
DEPTH = 444.8 ± 13.5 km
4.6mb (17 obs.)
SOUTH OF HONSHU, JAPAN (211)

Table with columns for station name, time, depth, and coordinates. Includes stations like MAT, SSE, SNY, NJ2, CN2, QZH, TIA, BJI, WHN, TIY, XAN, QIZ, GYA, LZH, KMI, GTA, CHG, GUN.

14d 19h										MINDANAO, PHILIPPINE ISLANDS (259)	
PKI	46.50 281 P	09 16.40	-1.6	MTN	47.52 275 iPc	39 48.80	-1.6	DAV	1.06 314 iPd	22 38.20	-0.3
	0.6s 12.00nm		4.5mb		e	44 17.20		MNI	5.09 197 ePc	23 34.50	1.7
DMN	46.74 281 P	09 18.40	-1.5	KNA	48.68 270 eP	39 58.50	-0.8		eS	24 36.50	
	0.8s 25.00nm		4.7mb	NANU	58.70 258 iPd	41 09.90	-0.5	AAI	10.13 169 eP	24 40.00	-1.8
GKN	47.03 282 P	09 20.40	-1.6	SPA	65.74 180 iPc	41 56.30	0.6	TRT	19.53 225 iPd	26 39.30	-0.8
	0.8s 26.00nm		4.7mb		0.7s 11.33nm		4.6mb	OZH	19.93 339 eP	26 43.20	-1.0
WB5	49.65 185 eP	09 41.00	-0.6	CHJJ	71.54 326 P	42 29.50	-1.1	QIZ	20.42 310 eP	26 50.80	1.5
WRA	49.72 185 Pc	09 41.70	-0.4	IIDJ	71.66 325 P	42 30.50	-0.9		S	30 33.50	
	0.7s 2.40nm		3.7mb	MAT	72.32 326 eP	42 34.00	-1.2	KNA	22.08 174 eP	27 06.00	0.1
INK	61.77 25 eP	11 05.00	-0.7		0.9s 17.65nm		4.6mb	KGM	23.35 260 eP	27 21.00	2.7
MBC	63.99 15 ePc	11 19.50	-0.5	MTMJ	72.56 325 P	42 35.80	-0.9	IPM	25.26 267 ePd	27 37.70	1.1
	0.5s 4.00nm		4.3mb	TSRJ	72.74 324 P	42 36.80	-0.7	WB5	27.23 163 eP	27 52.00	-2.5
KEV	69.35 340 eP	11 53.00	-0.2	NJ2	81.01 311 P	43 22.00	-0.4	WRA	27.28 163 Pc	27 53.60	-1.4
SOD	70.70 338 iP	12 01.40	0.2	PRS	81.88 44 eP	43 27.60	0.7		0.7s 17.20nm		4.7mb
YKA	71.12 28 eP	12 02.40	-1.3	PRI	82.22 45 eP	43 29.40	0.7	KMI	29.31 312 eP	26 13.00	-0.5
	0.7s 7.50nm		4.4mb	MHC	82.34 43 ePc	43 29.90	0.6	CHG	29.41 297 eP	28 14.80	0.5
SUF	73.38 334 iP	12 16.60	-0.2	MDJ	82.69 326 Pd	43 31.20	0.5	QIS	29.74 154 iPc	28 16.40	-0.7
	0.4s 7.80nm		4.7mb	PLM	83.09 49 eP	43 34.00	0.8		0.9s 62.00nm		5.3mb
PNT	74.91 42 eP	12 26.00	0.3	SBB	83.21 47 eP	43 34.00	0.4	NANU	30.61 200 eP	28 24.00	-0.7
	0.7s 6.00nm		4.3mb	WHN	83.33 308 ePd	43 34.50	0.3	XAN	31.93 332 P	28 36.40	0.1
NUR	75.21 332 eP	12 26.00	-1.1	FRI	83.34 44 eP	43 34.20	0.1	MEKA	33.62 193 eP	28 49.50	-1.5
ORV	78.42 51 ePc	12 44.70	-0.3	ISA	83.35 46 eP	43 35.00	0.7	TIY	33.69 340 eP	28 52.10	0.5
BRK	78.71 53 eP	12 46.80	0.2	CMB	83.55 43 ePc	43 35.40	0.2	BJI	34.77 346 eP	29 01.00	0.3
SES	79.11 38 iPc	12 48.40	-0.1	ORV	83.80 42 eP	43 36.50	0.1		1.1s 14.00nm		4.8mb
MHC	79.40 53 iPc	12 50.60	0.2	WDC	83.83 40 ePc	43 36.90	0.4		PcP	31 31.50	
HFS	79.66 335 eP	12 50.50	-0.6	SNY	84.05 321 Pc	43 37.50	0.0		eS	34 20.00	
	0.5s 8.80nm		4.7mb	MIN	84.23 41 ePc	43 41.20	2.5		eScP	35 12.00	
CMB	79.92 52 iPc	12 53.30	0.3	GSC	84.25 47 eP	43 39.00	0.2	SNY	35.42 356 eP	29 07.60	1.5
PRS	80.09 54 eP	12 54.20	0.4	CN2	84.30 324 iPd	43 38.00	-0.8	LZH	36.08 328 P	29 13.50	1.5
NAO	80.18 337 P	12 53.20	-0.6	GLA	84.33 50 eP	43 40.00	0.8		1.8s 42.00nm		5.1mb
	0.6s 7.50nm		4.5mb	TIA	84.59 314 eP	43 40.60	0.2	MRWA	36.73 195 eP	29 16.90	-0.4
LRM	80.87 42 ePc	12 58.60	0.6	TNP	85.58 45 P	43 45.20	-0.2	HHC	36.81 341 eP	29 17.60	-0.4
FRI	80.91 53 eP	12 58.30	0.2	KVN	85.59 44 P	43 45.40	0.0	CN2	37.32 359 eP	29 26.80	4.7X
FFC	80.94 31 eP	12 57.50	-0.3	BJI	87.41 316 eP	43 54.00	0.2	COOL	37.35 187 eP	29 21.50	-1.0
	0.9s 17.00nm		4.7mb	TIY	88.55 313 Pd	43 59.00	0.6	BAL	37.88 194 eP	29 26.60	-0.3
KVN	80.95 50 P	12 58.70	0.2	CHG	89.88 291 eP	44 06.50	0.8	SHL	38.06 304 iP	29 27.80	-1.0
TNP	82.04 51 (P)	13 04.00	-0.2	ALQ	91.24 52 eP	44 11.50	-0.4	KLB	38.60 192 eP	29 32.80	-0.2
SBB	83.41 54 eP	13 11.00	0.1	ANMO	91.25 52 P	44 12.10	0.2		0.3s 10.00nm		5.2mb
GSC	83.80 53 eP	13 13.00	0.2	NAO	142.84 351 PKP	50 32.00	-4.2X	MUN	39.31 194 iPc	29 39.00	0.1
FRB	84.22 12 ePc	13 13.50	-0.7		0.9s 2.80nm			GTA	40.68 328 P	29 51.80	1.6
GLA	86.39 54 eP	13 27.00	1.5	HFS	143.04 349 ePKP	50 31.90	-4.7X		1.0s 10.00nm		4.6mb
ANMO	90.94 48 eP	13 48.00	1.1		0.4s 12.20nm			STK	40.70 160 iPc	29 50.80	0.5
ALO	90.94 48 eP	13 47.20	0.3	PRNI	148.47 289 ePKP	50 51.00	4.5X		1.0s 27.00nm		5.0mb
	S.D. = 1.0 on 50 of 50 obs.			MBH	148.59 288 ePKP	50 51.00	4.4X	BRS	42.17 144 iP	30 02.00	-0.5
				KSP	150.76 339 iPc	50 55.40	6.2X	ADE	42.71 165 iPc	30 08.10	1.3
					ic 51 04.70				0.8s 59.70nm		5.5mb
				CLL	151.34 343 ePKP	51 07.00	16.9X	GUN	43.91 304 P	30 16.40	-0.7
					e 52 56.00				0.4s 11.00nm		5.0mb
					S.D. = 0.9 on 53 of 60 obs.			PKI	44.18 303 P	30 18.00	-1.2
								DMN	44.44 303 P	30 20.20	-1.0
								GKN	44.97 304 P	30 24.20	-1.1
								BWA	45.60 154 eP	30 32.00	2.0
								BFD	45.87 162 iPd	30 32.70	0.8
								CAN	46.61 154 eP	30 38.70	0.7
								CNB	46.77 154 iPc	30 40.40	1.2
								TOO	47.20 159 iPc	30 44.20	1.6
								DZM	48.38 127 iPc	30 51.90	-0.1
								WMO	50.38 324 eP	31 06.00	-1.1
								KSH	55.92 314 P	31 50.00	1.9
								MAIO	67.64 307 eP	33 05.00	-1.6
								MAW	86.05 200 eP	34 49.00	0.7
								KEV	87.32 340 eP	34 53.00	-1.5
								SOD	87.92 338 iP	34 56.50	-0.9
								SUF	89.06 333 iP	35 02.20	-0.7
									0.5s 4.70nm		4.9mb
								NUR	90.24 331 eP	35 08.00	-0.5
								HFS	95.54 332 eP	35 29.70	-3.2X
									0.7s 4.00nm		5.0mb
								Z	19s 0.04um		3.9msz
								NAO	96.55 334 P	35 35.60	-1.9
									0.7s 3.60nm		5.0mb
								LKO	129.57 288 PKP	41 18.06	0.1
									0.7s 7.00nm		
								KIC	129.58 284 (PKP)	41 17.50	-0.5
								LNV	147.98 151 IPKp	41 55.00	4.5X
								PEL	148.99 152 IPKp	41 58.00	5.7X
								ZOBO	162.74 126 PKP	42 13.00	2.2
									i 43 04.00		
								SIV	167.97 143 PKPd	42 15.60	1.1
									S.D. = 1.2 on 55 of 59 obs.		
								? JUN 14, 1990 21h 23m 13.18 ± 9.24s			
								6.342 N ± 5.6km 126.338 E ± 10.0km			
								DEPTH = 95.0 ± 9.8 km			
								5.0mb (12 obs.)			

CHILE-ARGENTINA BORDER REGION (127)

Table with columns for station name, time, and coordinates. Includes stations like RTBS, RTCB, RTCV, RTLL, CFA, and RTRS.

JUN 14, 1990 21h 56m 48.19 ± 0.26s
11.312 N ± 4.3km 122.252 E ± 5.7km
DEPTH = 22.9km (5 depth phases)
5.3mb (28 obs.) 5.1msz (11 obs.)
PANAY, PHILIPPINE ISLANDS (254)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 22C
Centroid Location:
Origin Time 21:56:50.8 0.5
Lot 11.52N 0.08 Lon 121.95E 0.09
Dep 15.0 FLX Half-duration 2.3
Moment Tensor: Scale 10**17 Nm
Mrr=-0.12 0.07 Mtt=0.48 0.08
Mff=-0.61 0.10 Mrt=-1.39 0.19
Mrf=-0.55 0.19 Mtf=1.06 0.07
Principal Axes:
T Vol= 2.19 Plg=36 Azm=152
N -0.82 46 290
P -1.37 22 45
Best Double Couple: Mo=1.8*10**17
NP1: Strike=183 Dip=47 Slip=168
NP2: 281 81 43

Table listing seismic stations and their parameters. Includes stations like OCP, BAG, KKM, MNI, HKC, ANP, OZH, OIZ, GZH, MKS, SSE, WHN, LOE, NJ2, KGM, GYA, TRT, and KAGJ.

Table listing seismic stations and their parameters. Includes stations like SNG, NST, IPM, NNT, GUMO, GUA, KUMJ, KMI, BDT, CHG, SHNJ, PSI, PPI, SHK, TKSJ, TIA, MTN, XAN, WKYJ, YONJ, CD2, TSRJ, DL2, TIY, MTMJ, MAT, BJI, LZH, SNY, HHC, BTO, SHL, WBS, WRA, and MDJ.

Table listing seismic stations and their parameters. Includes stations like LSA, GTA, QIS, ASAJ, KUSJ, GUN, MEKA, PKI, DMN, GKN, MRWA, COOL, HYB, KLB, MUN, KOD, WMQ, NDI, ADE, KSH, CAN, QUE, DZM, MAIO, ADK, KER, TAB, ANM, SVW, IMA, PMR, FBA, TOA, KEV, DSI, SOD, PRNI, MBH, BBTk, KBS, SUF, NUR, INK, MBC, NAI, VRI, MLR, KRA, SPC, HFS, and NAO.

14d 22h	1.4s	25.60nm	5.3mb	SOUTHERN GREECE	(368)	IZI	7.33	58 eP	17 04.00	-1.2
KSP	91.16	322 eP	09 54.20	MD 4.7 (HLW), 4.5 (ATH).		YLV	7.37	56 eP	16 58.00	-7.8X
		e	10 14.70			BCK	7.41	81 eP	17 07.60	1.3
PRU	92.51	322 eP	10 00.00	1.2		HVAR	7.52	331 iPn	17 04.90	-2.9
Z	19s	0.70um			ITM			iS	18 27.90	
N	18s	0.40um			VLI	0.67	41 iPbc	15 30.00	-1.0	
E	18s	0.50um			VLS	1.26	87 iPnd	15 39.50	0.3	
		e	10 28.70	108kmX	ATH	1.63	330 iPnc	15 46.10	1.6	
CLL	92.94	324 eP	10 02.00	1.2		HRT	7.69	55 eP	17 08.00	-2.2
LJU	93.90	318 e(P)	10 07.50	2.2	AGG	2.46	18 eP	16 00.10	3.5X	
MOX	94.00	323 eP	10 07.50	1.8	VAM	2.61	118 iPnd	15 59.00	0.4	
		e	10 27.50	72kmX	IGT	2.97	344 iPc	16 05.20	1.5	
CEY	94.08	318 e(P)	10 08.40	2.2	NEO	3.01	28 ePn	16 05.70	1.5	
VOY	94.33	318 e(P)	10 08.00	0.6	KEK	3.28	338 iPnd	16 09.10	1.0	
GRF	94.61	323 eP	10 11.40	2.9X	APE	3.35	82 ePn	16 08.80	-0.4	
	0.8s	6.00nm			LIT	3.53	14 iPc	16 13.10	1.4	
Z	20s	0.60um			KBN	3.97	354 iPnc	16 20.30	2.5	
SQTA	95.59	320 e(P)	10 09.00	-4.3X	VLO	4.07	339 iPn	16 20.10	0.9	
	0.8s	7.10nm			FNA	4.11	360 iPc	16 21.10	1.3	
		i	10 14.90	18km	THE	4.14	17 ePc	16 21.40	1.1	
		e	10 34.00				eS	17 07.60		
BUL	97.19	251 eP	10 18.00	-2.1	BERA	4.18	345 iPnd	16 21.90	1.2	
DOU	98.29	325 P	10 27.40	2.2	OUR	4.19	28 eP	16 21.60	0.7	
PNT	98.93	36 eP	10 33.00	4.8X	GRG	4.35	10 eP	16 25.90	2.6	
NEW	100.89	36 ePdiff	10 38.00	1.0	SOH	4.42	20 eP	16 25.60	1.3	
	1.0s	8.13nm			OHR	4.46	354 iPnc	16 26.00	2.0	
RSSD	110.67	34 PKP	15 23.20	2.0	SOI	4.46	290 Pc	16 25.50	0.6	
ANMO	114.87	43 PKP	15 33.60	4.0X	SMG	4.48	75 ePn	16 25.20	0.1	
ALQ	114.87	43 ePKP	15 33.50	3.9X	LCI	4.54	325 P	16 25.00	-0.9	
Z	20s	0.35um			KNT	4.64	14 ePc	16 28.00	0.6	
TUL	120.88	36 ePKP	15 40.80	0.1	VAY	4.73	11 iPnd	16 30.30	1.6	
	1.2s	12.30nm			TIR	4.81	346 iPnd	16 31.40	1.6	
UYO	122.89	36 iPKPd	15 48.10	3.6X	ATN	4.94	289 Pd	16 32.00	0.4	
LKO	124.15	290 PKP	15 48.00	0.4	TDS	4.97	308 Pc	16 31.90	0.0	
LPB	168.69	118 PKP	16 53.00	-2.6	IZM	4.98	68 eP	16 29.00	-3.3X	
ZOBO	168.78	117 PKP	16 58.00	2.2	EZN	5.01	50 eP	16 33.00	0.5	
Z	20s	0.38um			PHP	5.06	352 iPn	16 33.50	0.3	
		eLR	22 44.00		LACI	5.12	346 iPnc	16 34.10	0.0	
CCH	169.87	128 ePKP	16 57.00	0.9	ORI	5.14	313 P	16 35.20	0.7	
SIV	174.34	146 ePKPc	16 57.00	-0.7	MEU	5.19	277 P	16 34.80	-0.3	
		i	18 30.50		SKO	5.29	1 iPn	16 37.20	0.6	
		i	16 48.50				i	16 48.50		
		i	17 01.00				i	17 01.00		
S.D. = 1.3 on 103 of 127 obs.							i	17 14.00		
							i	17 30.00		
? JUN 14, 1990 22h 01m 05.42 ± 0.93s							Lg	17 40.00		
56.692 N ± 15.7km 155.329 W ± 24.1km					BRT	5.32	323 Pc	16 37.00	0.1	
DEPTH = 33.0km (normol)					CIN	5.44	78 eP	16 39.00	0.4	
4.3mb (10 obs.)					MNO	5.47	285 P	16 40.00	0.7	
ALASKA PENINSULA (12)					PUK	5.49	348 iPnd	16 39.90	0.7	
PMR	5.86	30 e(P)	02 32.00	-0.2	RDO	5.52	35 ePn	16 39.00	-0.7	
IMA	9.44	4 e(P)	03 22.00	-0.3	SDA	5.53	345 iPnc	16 40.80	0.9	
INK	15.27	32 P	04 48.00	8.1X	ULC	5.54	343 ePn	16 39.00	-1.0	
MBC	23.56	21 eP	06 18.00	4.9X			eSn	17 36.00		
	0.5s	3.00nm			RZN	5.64	26 ePc	16 42.00	0.4	
		pP	06 28.00	37kmX	MGR	5.73	309 P	16 42.60	-0.2	
DAG	44.00	13 eP	09 12.00	1.4	BCI	5.78	350 iPnd	16 44.00	0.7	
SOD	56.24	359 iP	10 44.20	0.1	KDZ	5.88	31 eP	16 44.00	-0.8	
SUF	60.92	359 eP	11 17.00	0.3	BDV	5.94	341 ePn	16 44.20	-1.5	
NAO	62.32	8 P	11 25.90	-0.3			eSn	17 43.00		
	0.7s	2.20nm			TTG	5.98	345 ePn	16 45.30	-0.9	
NUR	63.14	0 eP	11 31.00	-0.5			eSn	17 46.50		
LOR	74.96	15 eP	12 44.50	-0.1	GIB	6.00	285 P	16 47.20	0.5	
SSF	75.11	15 eP	12 45.50	0.1	PLD	6.01	24 eP	16 48.00	1.4	
	0.8s	2.70nm			PVY	6.01	350 ePn	16 47.00	0.2	
LBF	75.25	14 eP	12 45.90	-0.4			eSn	17 50.00		
	0.8s	2.70nm			VTS	6.08	13 iPc	16 49.00	1.2	
AVF	75.36	15 eP	12 46.60	-0.2	SGO	6.13	311 P	16 49.00	0.6	
	0.8s	2.70nm			HCY	6.18	340 ePn	16 47.50	-1.6	
SMF	75.57	15 eP	12 48.00	0.0			eSn	17 49.00		
	0.8s	2.70nm			PGB	6.25	19 eP	16 52.00	1.9	
LSF	75.61	16 eP	12 48.10	-0.2	MCT	6.26	281 P	16 52.50	2.2	
	0.6s	1.80nm			IWA	6.30	350 ePn	16 50.70	0.0	
MAF	75.80	16 eP	12 49.60	0.3			eSn	17 58.00		
	1.0s	4.00nm			NKY	6.40	344 ePn	16 50.90	-1.3	
LFF	76.76	17 eP	12 54.70	0.0			eSn	17 59.00		
	0.6s	3.60nm			BSS	6.58	311 P	16 54.30	-0.3	
CAF	76.99	16 eP	12 55.90	-0.1	BRY	6.59	342 ePn	16 53.00	-1.9	
	0.6s	1.80nm					eSn	18 02.50		
SPA	146.51	180 iPKPc	20 31.60	-10.2X	KSL	6.64	92 ePn	16 56.00	0.5	
	1.0s	10.50nm			KHL	6.68	73 eP	16 57.50	1.3	
S.D. = 0.5 on 16 of 19 obs.					PLE	6.82	348 ePn	16 57.50	-0.6	
							eSn	18 11.00		
JUN 14, 1990 22h 15m 17.89 ± 0.33s					ELL	6.85	87 iP	17 00.00	1.4	
36.672 N ± 3.9km 21.377 E ± 2.5km					ERC	7.13	284 P	17 03.50	1.1	
DEPTH = 40.2km (2 depth phases)					LVC	7.32	283 P	17 06.00	1.0	
4.4mb (36 obs.)					DUI	7.33	315 P	17 05.60	0.4	

14d 23h

Table with columns for station ID, time, and values. Includes stations like LNV, ANT, LPB, ZOBO, SIV, BAO, SPA, LIC, TIC, KIC, LKO, SLR, WRA, WB5.

& JUN 14, 1990 23h 28m 48.92s
31.570 N 114.480 W
DEPTH = 5.7km
GULF OF CALIFORNIA (49)
<ECX>. ML 3.8 (ECX).

Table with columns for station ID, time, and values. Includes stations like ECBX, LMX, EMX, CPBX, ENX, PBX, CBX.

JUN 14, 1990 23h 45m 01.30 ± 0.40s
39.096 N ± 4.3km 20.766 E ± 3.1km
DEPTH = 28.9 ± 3.2 km
3.7mb (2 obs.)
GREECE-ALBANIA BORDER REGION (392)
ML 3.8 (ATH).

Table with columns for station ID, time, and values. Includes stations like IGT, VLS, KEK, SRN, AGG, KBN, LIT, VLO, FNA, NEO, OHR, ITM, GRG, THE, TIR, LCI, ATH, VAY, SOH, KNT, LACI, OUR, SKO.

Table with columns for station ID, time, and values. Includes stations like VLI, SRS, SDA, BRT, BCI, MMB, ORI, TDS, SOI, VTS, RZN, MGR, RDO, ATN, SCO, VAM, BSS, MEU, HVAR.

Table with columns for station ID, time, and values. Includes stations like DUI, SDI, AZI, ASS, ARV, MLR, VBY, VRI, CEY, LJU, VOY, FVI, CTI, NAO, EKA, SUF.

JUN 15, 1990 00h 30m 51.40 ± 0.82s
23.297 S ± 10.7km 178.955 E ± 8.5km
DEPTH = 563.4 ± 9.4 km
4.8mb (11 obs.)

Table with columns for station ID, time, and values. Includes stations like SOUTH OF FIJI ISLANDS (171), SVA, VUN, NDF, DZM, HBZ, COO, RMO, CAN, BWA, CMS, CTA, TOO, STK, OIS, WB5, WRA, MTN, KNA, COOL, KLB, MUN, NANU, SPA, PRS, PCC, BCH, PRI.

Table with columns for station ID, time, and values. Includes stations like BRK, MHC, ARN, ABL, BAR, RVR, PLM, SBB, FRI, ISA, CMB, WDC, ORV, CLC, TPC, GSC, GLA, KVN, TNP, GMW, LON, PMR, MCW, MSU, DUG, PNT, ALQ, ANMO, IMA, BW06, GOL, RSSD, FRB, SUF, NUR, NAO, HFS, PRNI, MBH, EKA, KRA, MLR, SPC, KSP, WIT, CLL, PRU, WTS, MOX, SRO, ZST, ENN, MEM, DOU, BCAO.

? JUN 15, 1990 01h 28m 21.06 ± 4.38s
31.246 S ± 14.9km 68.492 W ± 22.6km
DEPTH = 89.0 ± 42.5 km
SAN JUAN PROVINCE, ARGENTINA (137)

Table with columns for station ID, time, and values. Includes stations like RTLL, RTCB, CFA, RTCV, RTBS.

RTRS 1.36 322 ePc 28 45.30 0.0
 S.D. = 0.2 on 6 of 6 obs.

JUN 15, 1990 02h 10m 09.06± 0.28s
 18.950 N ± 3.8km 64.309 W ± 3.7km
 DEPTH = 47.4km (2 depth phases)
 4.4mb (8 obs.)

VIRGIN ISLANDS (91)
 MD 4.8 (TRN).

LPR 1.61 247 P 10 35.40 -0.2
 CPD 1.77 240 P 10 38.10 0.3
 SJG 1.94 245 iP 10 40.20 0.0
 S 11 04.20
 SKI 2.19 137 eP 10 44.18 0.4
 PORP 2.38 248 P 10 46.40 -0.1
 NEV 2.45 137 eP 10 48.08 0.7
 S 11 22.70
 CPB 2.69 119 eP 10 50.04 -0.9
 eS 11 26.83
 MGP 2.80 251 P 10 52.80 0.3
 MGH 2.98 138 eP 10 55.93 0.9
 BPA 3.00 129 eP 10 54.42 -0.9
 S 11 35.50
 SEG 3.68 133 eP 11 04.54 -0.4
 PAG 3.84 139 eP 11 07.37 0.1
 S 11 54.00

SFG 4.00 132 eP 11 08.20 -1.2
 MGG 4.15 136 eP 11 11.59 0.0
 BBL 4.35 141 eP 11 14.52 0.1
 DPMT 4.61 142 eP 11 18.00 -0.1
 FDF 5.17 144 eP 11 28.70 2.7
 CRM 5.29 142 eP 11 28.52 0.9
 BIM 5.39 144 eP 11 29.18 0.1
 MVM 5.46 143 eP 11 30.00 0.0
 SLW 5.87 146 eP 11 33.84 -2.0
 SLB 5.98 148 eP 11 36.05 -1.4
 SVB 6.36 152 eP 11 41.92 -0.8
 TCE 8.57 163 eP 12 14.20 0.8
 TRN 8.72 161 eP 12 16.01 0.6
 HBF 20.03 317 P 14 47.50 6.7X
 SGS 20.28 318 P 14 51.00 7.6X
 JSC 21.46 319 P 15 06.50 11.1X
 NA2 22.41 331 P 15 18.10 13.3X
 BLA 23.03 325 eP 15 29.50 18.5X
 0.5s 24.65nm eS 19 15.00

GBTN 24.21 317 P 15 35.00 12.6X
 RSCP 25.06 316 P 15 30.00 -0.6
 SIV 34.87 175 P 16 55.80 -2.3
 ZOBO 35.20 186 eP 17 06.00 4.5X
 LPB 35.46 186 eP 17 00.00 -3.5X
 BAO 37.93 154 e(P) 17 26.00 1.9
 ALO 40.49 302 eP 17 45.20 -0.1
 1.0s 3.25nm 4.1mb e 17 58.00 48km

ANMO 40.49 302 P 17 45.40 0.1
 RSSD 41.57 316 P 17 58.00 4.0X
 BW06 44.84 312 P 18 20.90 0.2
 e 18 33.70 47km
 FRB 44.85 357 eP 18 19.00 -1.1
 LPF 58.33 45 eP 20 01.90 0.3
 0.7s 4.40nm 4.7mb

GRR 58.49 44 eP 20 03.00 0.3
 0.6s 3.60nm 4.7mb
 FLN 58.78 44 eP 20 05.20 0.4
 EPF 58.89 51 eP 20 06.60 0.9
 0.6s 1.80nm 4.4mb

RJF 59.85 48 eP 20 12.50 0.3
 TCF 60.39 47 eP 20 16.30 0.4
 0.6s 1.80nm 4.4mb
 AVF 61.20 46 eP 20 21.30 -0.1
 0.6s 1.80nm 4.4mb
 SSF 61.32 46 eP 20 22.40 0.2
 0.8s 2.70nm 4.4mb

LOR 61.57 46 eP 20 23.60 -0.3
 0.6s 1.80nm 4.4mb
 LBF 61.64 46 eP 20 24.10 -0.3
 LPG 63.54 48 eP 20 37.50 0.1
 PRU 68.61 43 eP 21 22.50 13.3X
 S.D. = 0.9 on 43 of 53 obs.

? JUN 15, 1990 03h 20m 57.46± 2.85s
 4.025 S ± 51.3km 104.572 W ± 60.4km
 DEPTH = 10.0km (geophysicist)
 4.0mb (4 obs.)
 NORTHERN EASTER I. CORDILLERA (694)

ZOBO 37.80 111 eP 28 18.00 1.3
 Z 24s 0.13um 3.6mszx
 LR 37 16.00

LPB 37.89 112 eP 28 16.00 -1.3
 ALO 38.80 358 eP 28 24.80 0.4
 1.0s 2.50nm 3.9mb

ANMO 38.80 358 P 28 25.00 0.6
 1.0s 3.13nm 4.0mb

CCH 39.92 112 (P) 28 24.00 -10.1X
 MSU 42.91 351 P 28 59.20 1.0
 TNP 43.51 345 P 29 03.50 0.4
 SIV 44.35 109 (P) 29 04.00 -6.1X
 KVN 44.65 345 P 29 12.50 0.2
 DUG 44.65 351 P 29 28.40 16.1X
 0.6s 1.64nm

ORV 46.08 342 P 29 24.00 0.5
 BW06 46.80 355 P 29 28.40 -1.0
 0.6s 0.93nm 4.0mb
 RSSD 47.93 1 P 29 38.50 0.3
 NEW 53.22 350 P 30 16.50 -1.7
 1.2s 10.42nm 4.7mb

PNT 54.71 348 eP 30 27.00 -2.1
 INK 74.94 349 eP 32 42.00 -1.9
 MBC 80.61 356 eP 33 11.00 -0.3
 MAIO 144.69 23 ePKP 40 32.00 -4.7X
 S.D. = 1.3 on 14 of 18 obs.

& JUN 15, 1990 03h 29m 36.50s
 40.428 N 125.395 W
 DEPTH = 5.0km
 OFF COAST OF NORTHERN CALIFORNIA (34)
 <BRK>. ML 3.2 (BRK).

FHC 1.14 70 iPc 29 56.90 -1.4
 i 30 04.10
 eS 30 11.30

WDC 2.18 85 iPc 30 11.60 -2.4
 LBFM 2.81 70 eP 30 21.50 -1.7
 MIN 2.90 90 ePc 30 21.30 -3.0
 ORV 3.12 105 eP 30 24.90 -2.3
 PCC 3.75 140 ePd 30 34.20 -2.1
 MHC 4.25 135 eP 30 40.50 -3.0
 ARN 4.30 134 eP 30 41.50 -2.7
 SAO 4.79 139 eP 30 46.80 -4.3
 KVN 5.79 101 eP 31 02.00 -3.3

10 obs. associated

JUN 15, 1990 04h 42m 51.99± 0.39s
 42.366 N ± 4.2km 1.809 E ± 4.0km
 DEPTH = 10.0km (geophysicist)
 PYRENEES (378)
 ML 3.4 (LDG). mbLg 3.3 (MDD).

ETER 0.78 94 eP 43 07.50 0.3
 eS 43 18.00
 EPF 1.27 302 Pn 43 15.30 -0.3
 Pg 43 19.30
 Sn 43 32.80
 Sg 43 36.40

EBR 1.83 213 ePn 43 25.50 1.8
 eSg 43 49.50

EROO 1.87 215 eP 43 24.00 -0.2
 eS 43 46.60
 LPO 2.36 349 Pn 43 32.10 0.7
 Pg 43 36.20
 Sn 44 00.20
 Sg 44 06.80

CAF 2.57 4 Pn 43 34.50 0.2
 Pg 43 39.60
 Sn 44 04.20
 Sg 44 13.00

LFF 2.69 344 Pn 43 35.70 -0.3
 Sn 44 07.60
 Sg 44 17.20
 RJF 2.94 356 Pn 43 39.40 -0.3
 Sn 44 13.60
 Sg 44 25.60

ECRI 3.20 276 eP 43 44.70 1.3
 eS 44 21.80
 ETOR 3.28 243 eP 43 44.40 -0.2
 eS 44 22.20
 ECHE 3.48 218 eP 43 46.70 -0.6
 LRG 3.52 70 Pn 43 47.70 0.0
 Sn 44 27.90
 Sg 43 49.40 0.6

LMR 3.59 73 Pn 43 51.80 0.7
 FRF 3.75 70 Pn 43 51.80 0.7
 LSF 3.89 357 Pn 43 53.20 0.1

Pg 44 04.60
 Sn 44 34.60
 Sg 44 54.60

MAF 3.89 8 Pn 43 52.40 -0.7
 Pg 44 05.60
 Sg 44 54.40

TCF 3.93 4 Pg 44 06.20 12.5X
 Sn 44 36.20
 Sg 44 56.60

BGF 4.26 10 Pn 43 58.40 0.1
 Pg 44 12.10
 Sg 45 06.30

MFF 4.46 342 Pn 44 01.30 0.2
 Pg 44 17.20
 Sn 44 48.40

SMF 4.52 18 Pg 44 16.60 14.6X
 Sg 45 15.40
 AVF 4.56 13 Pg 44 18.00 15.5X
 Sg 45 16.20

GUD 4.80 251 eP 44 04.60 -1.5
 eS 44 58.00
 SSF 4.85 14 Pg 44 23.40 16.7X
 Sg 45 25.20

PGF 5.32 86 Pn 44 11.80 -1.7
 S.D. = 0.9 on 20 of 24 obs.

* JUN 15, 1990 05h 54m 55.74± 0.90s
 30.582 N ± 15.1km 67.429 E ± 11.2km
 DEPTH = 33.0km (normal)
 4.4mb (2 obs.)

PAKISTAN (710)

QUE 0.57 227 eP 55 07.40 -0.1
 NDI 8.73 100 eP 57 02.00 -0.6
 0.6s 20.00nm 5.4mb X
 eS 58 44.00

MAIO 8.74 313 eP 57 04.00 1.1
 eS 59 21.00
 SHL 22.13 97 eP 59 51.50 1.2
 NUR 41.14 329 eP 02 39.00 1.0
 SUF 41.59 333 eP 02 39.00 -2.7
 APO 46.08 327 eP 03 12.30 -5.7X
 0.5s 3.10nm 4.5mb

NAO 47.63 326 P 03 24.00 -6.3X
 0.9s 2.40nm 4.2mb

INK 80.18 8 eP 07 04.00 0.3
 S.D. = 1.7 on 7 of 9 obs.

? JUN 15, 1990 06h 02m 37.80± 3.36s
 32.512 S ± 14.5km 71.832 W ± 34.5km
 DEPTH = 33.0km (normal)
 NEAR COAST OF CENTRAL CHILE (135)

IHA 0.54 163 iPc 02 48.90 0.0
 iS 02 56.00

RTBS 2.19 68 e(P) 03 12.90 0.3
 S 03 38.50

ZON 2.85 71 eP 03 22.00 0.0
 RTCV 2.87 78 e(P) 03 23.00 0.7
 RTLL 3.09 68 iPd 03 24.20 -1.3
 eS 04 03.60

RTRS 3.09 42 iPc 03 25.60 0.2
 CFA 3.18 74 iPc 03 21.90 -4.8X
 S.D. = 0.9 on 6 of 7 obs.

? JUN 15, 1990 06h 14m 13.32± 1.22s
 31.513 S ± 17.5km 69.361 W ± 19.9km
 DEPTH = 120.0km (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA (137)

RTBS 0.17 208 ePd 14 30.10 -0.2
 S 14 42.50

RTCV 0.78 116 e(P) 14 34.00 0.3
 RTLL 0.78 77 iPd 14 33.30 -0.4
 eS 14 48.50

CFA 0.96 96 ePc 14 35.40 0.1
 RTRS 1.34 356 eP 14 39.40 0.2
 S.D. = 0.4 on 5 of 5 obs.

JUN 15, 1990 06h 19m 04.90± 0.45s
 11.848 N ± 3.3km 61.030 W ± 10.5km
 DEPTH = 36.5 ± 16.6 km
 WINDWARD ISLANDS (95)
 MD 3.6 (TRN).

GRW 0.69 297 iP 19 18.22 -0.1

FRF 131.02 327 ePKP 31 32.40 -0.6
 GRR 131.03 336 ePKP 31 32.70 -0.1
 0.7s 13.25nm
 MAF 131.21 332 ePKP 31 33.30 0.0
 0.9s 8.20nm
 LRG 131.24 327 ePKP 31 33.20 -0.2
 0.8s 16.10nm
 TCF 131.33 332 ePKP 31 33.40 -0.2
 0.9s 16.40nm
 LPF 131.39 336 ePKP 31 33.60 0.1
 0.9s 29.50nm
 ARE 131.91 117 ePKP 31 51.00 15.2X
 MFF 132.14 334 ePKP 31 34.80 -0.2
 RJF 132.39 332 ePKP 31 35.70 0.1
 CAF 132.41 331 ePKP 31 35.40 -0.3
 LPO 133.01 332 ePKP 31 37.00 0.3
 BCAO 133.71 271 iPKPc 31 24.50 -14.5X
 1.0s 10.00nm

ic 31 37.50
 ic 32 07.50
 ic 33 50.50
 ic 35 00.50
 id 35 10.00
 ic 35 32.00

EPF 134.65 331 ePKP 31 40.10 0.1
 LPB 134.86 119 ePKP 31 25.00 -16.6X
 i 31 38.00

ZOBO 134.95 119 PKP 31 30.00 -12.0X
 1.0s 33.75nm

CCH 136.17 121 PKP 31 33.40 -10.5X
 e 31 45.00

EBR 136.20 329 ePKP 31 40.00 -2.9
 FISA 138.57 79 ePKP 31 48.50 0.3
 TOL 139.18 332 ePKP 31 40.00 -8.5X

iPP 34 47.00
 ePPP 37 44.00
 eSKKS 44 25.00
 ePPS 47 45.00
 eSS 53 25.00

MORO 139.60 79 ePKP 31 50.00 -0.1
 GUAC 140.68 80 ePKP 31 52.80 0.7
 CAR 140.99 80 ePKP 31 36.00 -16.6X
 SIV 141.10 123 PKP 31 44.10 -8.5X

i 31 52.50
 LLAV 141.11 80 ePKP 31 52.80 0.0
 OLLA 141.15 80 ePKP 31 48.00 -4.9X
 MAL 141.80 329 ePKP 31 42.00 -11.3X

iPP 34 58.00
 NKM 143.30 328 ePKP 31 52.00 -3.9X
 NEV 144.01 68 ePKP 31 53.00 -4.6X
 MGH 144.45 68 ePKP 31 55.00 -3.4X
 IFR 144.61 326 iPKPc 31 57.50 -1.0
 BPA 144.69 68 ePKP 31 56.00 -2.8
 PAG 145.12 69 ePKP 31 59.00 -0.6
 BBL 145.43 70 ePKP 31 59.50 -0.6
 AVE 146.01 328 iPKP 32 01.50 0.9

i 32 21.00
 TCE 146.04 78 ePKP 32 00.39 -0.8
 SVB 146.13 74 ePKP 32 00.87 -0.4
 SVV 146.15 74 ePKP 32 01.02 -0.3
 SLB 146.22 73 ePKP 32 01.98 0.5
 TPP 146.37 79 ePKP 32 03.03 1.4
 TRN 146.38 78 iPKPc 32 01.75 0.1

1.0s 300.00nm
 TBH 146.73 79 ePKP 32 04.91 2.7
 TIO 147.74 325 iPKP 32 06.50 2.9X
 i 32 41.50

BAO 151.42 136 ePKP 32 10.00 0.4
 TIC 157.17 275 (PKP) 32 27.88 10.5X
 LKO 157.41 283 PKP 32 20.18 2.5
 CAI 165.28 141 iPKPc 32 26.20 0.5

S.D. = 0.9 on 250 of 279 obs.

* JUN 15, 1990 08h 32m 16.89±0.96s
 24.060 S ± 8.0km 67.013 W ± 23.7km
 DEPTH = 267.0 ± 54.3 km
 CHILE-ARGENTINA BORDER REGION (127)

ANT 3.13 276 iPc 33 12.00 -0.2
 IS 33 50.30
 RTRS 6.46 199 ePd 33 54.00 2.3X
 CCH 6.69 7 P 33 56.30 1.4
 e 35 12.00

RTLL 7.36 190 ePd 34 02.40 -0.5
 i 34 03.20

LPB 7.56 352 P 34 04.50 -1.3

Z 24s 2.33um
 LR 15 10.00

CFA 7.60 188 ePd 34 06.50 0.6
 ARE 8.65 330 eP 34 20.00 0.5
 eS 35 54.00

SIV 9.78 36 eP 34 33.00 -0.5
 S.D. = 1.3 on 7 of 8 obs.

? JUN 15, 1990 10h 19m 10.91±7.87s
 17.221 N ± 45.4km 60.912 W ± 41.1km
 DEPTH = 10.0km (geophysicist)

LEEWARD ISLANDS (92)
 ML 2.8 (FDF).

BPA 0.92 259 eP 19 28.16 -0.4
 S 19 38.70

SEG 0.99 215 eP 19 29.84 0.1
 S 19 41.50

MGH 1.34 248 eP 19 36.20 0.5
 PAG 1.39 212 eP 19 36.10 -0.3
 S 19 53.20

BBL 1.77 198 eP 19 42.00 0.1
 S.D. = 0.5 on 5 of 5 obs.

* JUN 15, 1990 10h 34m 41.88±0.85s
 20.979 N ± 11.1km 97.000 E ± 11.5km
 DEPTH = 33.0km (normal)

BURMA (296)

BDT 4.17 153 eP 35 44.80 0.0
 GUN 12.25 306 P 37 37.60 0.3
 PKI 12.44 304 P 37 40.60 0.8
 KKN 12.64 305 P 37 41.60 -0.9

0.8s 23.00nm 5.3mb X
 DMN 12.69 304 P 37 43.00 -0.1
 0.8s 21.00nm 5.3mb X

GKN 13.24 304 P 37 46.20 -4.2X
 LZH 16.20 20 eP 38 28.80 0.0

Z 25s 0.40um
 S.D. = 0.7 on 6 of 7 obs.

JUN 15, 1990 10h 37m 19.55±0.50s
 43.119 N ± 6.1km 0.344 W ± 3.9km
 DEPTH = 10.0km (geophysicist)

PYRENEES (378)
 ML 3.2 (LDG). Felt (III) in the
 Ossau Valley, France.

JAU 0.08 193 Pg 37 21.91 -0.3
 Sg 37 23.14

OGE 0.11 298 Pg 37 22.88 0.5
 ESCF 0.17 257 Pg 37 23.14 -0.4
 Sg 37 25.49

ATE 0.26 263 Pg 37 24.94 -0.2
 Sg 37 28.52

LHE 0.29 225 Pg 37 24.99 -0.7
 ISSF 0.34 255 Pg 37 26.40 -0.3
 Sg 37 31.10

MADF 0.35 275 Pg 37 26.61 -0.2
 Sg 37 32.01

ELYF 0.48 276 Pg 37 28.91 -0.3
 Sg 37 34.61

EPF 0.51 100 Pg 37 30.30 0.4
 Sg 37 37.80

ECRI 1.67 253 eP 37 51.20 2.1
 eS 38 13.20

LPO 1.92 35 Pg 37 57.00 4.5X
 Sg 38 23.20

LFF 1.98 23 Pg 37 58.30 4.8X
 Sg 38 25.30

CAF 2.51 43 Pn 38 00.50 -0.5
 Pg 38 07.80
 Sg 38 41.30

RJF 2.56 31 Pn 38 01.70 -0.1
 Pg 38 08.90
 Sg 38 42.60

MFF 3.49 2 Pg 38 26.00 11.1X
 Sg 39 09.40

TCF 3.65 29 Pg 38 29.00 11.6X
 Sg 39 14.90

MAF 3.73 33 Pn 38 18.30 -0.2
 Sg 39 19.20

BGF 4.12 32 Pg 38 37.80 13.9X
 Sg 39 31.10

S.D. = 0.8 on 13 of 18 obs.

? JUN 15, 1990 11h 36m 50.70±1.51s

38.978 N ± 10.9km 20.008 E ± 19.0km
 DEPTH = 33.0km (normal)

GREECE (364)

KEK 0.75 348 eP 37 04.50 -0.4
 eS 37 17.00

VLS 0.92 150 eP 37 07.40 0.1
 OHR 2.22 16 iPn 37 26.40 0.5
 NEO 2.52 82 eP 37 30.00 -0.3
 SKO 3.18 20 ePn 37 49.00 9.4X
 S.D. = 0.7 on 4 of 5 obs.

% JUN 15, 1990 12h 13m 26.51±1.27s
 39.365 N ± 12.3km 27.797 E ± 10.0km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

EDC 0.98 3 ePn 13 46.40 1.3
 EZN 1.23 292 iPn 13 48.90 -0.4
 IZI 1.61 53 ePn 13 55.40 0.2
 KHL 1.70 127 ePn 13 57.00 0.5
 YLV 1.70 45 ePn 13 54.90 -1.6
 ALT 1.82 99 ePn 14 03.00 4.8X
 S.D. = 1.5 on 5 of 6 obs.

& JUN 15, 1990 12h 21m 55.50s
 36.905 N 121.658 W

DEPTH = 7.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 2.9 (BRK).

SAO 0.22 129 iPd 21 59.70 -0.4
 GCC 0.30 295 iPc 22 01.20 -0.4
 iS 22 05.50

MHC 0.44 2 iPd 22 04.40 0.1
 iS 22 10.60

ARN 0.45 13 iPc 22 04.70 0.0
 PRS 0.62 158 iPd 22 07.00 -0.9
 LLA 0.64 116 iPd 22 07.70 -0.7
 PCC 0.83 316 iPc 22 10.50 -1.3
 eS 22 23.10

BKS 1.07 335 iPc 22 14.50 -1.5
 BRK 1.08 334 eP 22 14.60 -1.4
 eS 22 30.00

PRI 1.10 133 ePc 22 15.60 -1.0
 ZSP 1.14 336 iPd 22 15.60 -1.5
 PHAM 1.47 136 eP 22 20.80 -1.7
 CMB 1.52 42 e(P) 22 21.10 -2.0
 eS 22 40.30

FRI 1.56 86 e(P) 22 21.50 -2.2
 iPg 22 23.10
 eS 22 41.60
 iSg 22 43.60

14 obs. associated

JUN 15, 1990 12h 41m 02.62±0.78s
 21.124 N ± 8.2km 119.649 E ± 8.5km
 DEPTH = 33.0km (normal)

4.1mb (3 abs.)
 TAIWAN REGION (243)

OZH 3.92 346 ePn 42 02.00 0.0
 Z 12s 1.70um 3.6mszX

HKC 5.23 284 iPd 42 19.60 -0.9
 MCO 5.75 281 eP 42 26.90 -1.1
 GZH 6.16 290 Pd 42 31.60 -2.2

E 10s 1.50um
 QIZ 9.45 259 P 43 19.50 0.0

N 10s 1.50um
 E 12s 1.40um

SSE 10.03 8 eP 43 25.30 -2.1
 E 10s 0.90um
 S 45 26.00

WHN 10.52 334 eP 43 35.00 0.8
 Z 12s 1.20um
 N 11s 1.56um
 E 11s 0.84um

GYA 13.02 297 P 44 07.60 -0.5
 N 10s 0.80um
 E 10s 0.70um

XAN 15.98 326 P 44 48.00 1.3
 N 12s 1.28um

KMI 16.05 288 eP 44 54.00 6.2X
 CD2 17.27 308 eP 45 05.00 2.0
 N 10s 1.70um

TIY 17.67 341 Pc 45 08.90 1.0
 Z 11s 1.00um

15d 20h

GRC1 2.76 341 e(Pn) 12 03.60 0.7
iPgc 12 10.30
eSg 12 44.50
KHC 2.77 9 Pg 12 03.10 0.1
Sg 12 38.00
S.D. = 1.5 on 14 of 15 obs.
JUN 15, 1990 20h 26m 20.05±0.48s
6.785 S ± 7.2km 142.994 E ± 7.7km
DEPTH = 33.0km (normal)
4.8mb (6 obs.)
PAPUA NEW GUINEA (202)

MNDI 0.91 47 eP 26 26.50 -10.2X
LAT 3.98 88 eP 27 19.00 -1.3
KDB 4.91 123 eP 27 33.00 -0.5
MTN 13.15 242 eP 29 26.00 -1.1
e 29 51.00
e 31 55.00
e 32 58.00
OIS 14.08 193 eP 29 41.00 1.6
e 29 50.00
e 32 09.00
e 33 56.50
WB5 15.48 212 eP 29 56.00 -1.7
eS 32 35.00
WRA 15.55 212 Pd 29 58.00 -0.5
0.8s 7.90nm 4.0mb
KNA 16.54 236 eP 30 10.00 -1.3
WARB 24.00 217 eP 31 42.00 1.4
SSE 43.06 332 eP 34 17.50 -1.1
GYA 48.30 315 P 35 01.60 1.0
KMI 50.39 311 eP 35 17.00 0.2
BJI 52.76 334 eP 35 33.50 -0.6
0.8s 5.00nm 4.5mb
GTA 60.87 323 eP 36 31.60 -0.4
0.8s 4.00nm 4.6mb
GUN 65.00 305 P 37 00.30 0.4
DMN 65.52 304 P 37 03.40 0.3
0.9s 23.00nm 5.3mb
GKN 66.05 305 P 37 06.20 -0.2
0.9s 18.00nm 5.2mb
WMO 70.84 321 eP 37 35.00 -0.7
QUE 81.45 302 eP 38 37.40 1.4
SPA 83.26 180 iPc 38 45.90 1.3
0.6s 5.69nm 4.9mb
SIV 147.14 134 PKP 46 01.90 1.8
KIC 147.95 271 PKP 46 06.00 4.5X
LIC 148.23 271 PKP 46 06.60 4.7X
TIC 148.24 272 PKP 46 06.80 4.8X
LKO 148.79 277 PKP 46 07.50 4.6X
0.9s 11.00nm
S.D. = 1.2 on 20 of 25 obs.

& JUN 15, 1990 20h 37m 35.10s
36.755 N 121.485 W
DEPTH = 7.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.8 (BRK).
SAO 0.03 73 iP 37 36.20 -0.5
PRS 0.43 168 iPd 37 43.40 -0.4
LLA 0.46 107 iPd 37 44.10 -0.2
iS 37 51.00
GCC 0.49 304 eP 37 44.10 -0.9
i 37 54.10
ARN 0.59 356 iPc 37 46.70 -0.3
MHC 0.60 348 iPd 37 47.00 -0.1
iS 37 55.80
PRI 0.90 133 ePc 37 52.20 -0.5
iS 38 07.30
PCC 1.03 316 iPd 37 53.50 -1.4
i 37 57.40
e 38 09.70
BKS 1.27 332 e(P) 38 00.00 1.1
BRK 1.28 331 ePd 37 59.70 0.7
FRI 1.44 80 eP 38 00.50 -1.2
iS 38 19.40
CMB 1.55 34 ePd 38 01.40 -1.8
BCH 1.94 144 eP 38 06.80 -2.0
KVN 3.52 48 eP 38 30.00 -1.6
14 obs. associated

% JUN 15, 1990 21h 04m 09.06±2.19s
16.038 N ± 9.7km 61.095 W ± 24.4km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)

ML 2.0 (FDF).
SFG 0.24 336 eP 04 15.97 0.0
MGG 0.24 241 eP 04 15.89 -0.2
S 04 19.30
SEG 0.54 313 eP 04 20.31 0.1
S 04 26.20
PAG 0.56 269 eP 04 20.60 0.0
S 04 27.20
BBL 0.63 216 eP 04 21.72 0.2
S 04 29.50
S.D. = 0.2 on 5 of 5 obs.

% JUN 15, 1990 22h 55m 54.99±0.92s
45.700 N ± 8.8km 26.989 E ± 12.0km
DEPTH = 33.0km (normal)
ROMANIA (358)
VRI 0.25 313 iPc 55 42.50 0.3
ISR 0.64 209 ePc 55 48.00 0.3
PPE 0.68 40 ePc 55 50.00 1.9
CLI 0.87 13 iPd 55 49.00 -1.9
CFR 0.97 122 iPd 55 52.00 -0.2
TLB 1.33 146 iPc 55 57.00 -0.4
S.D. = 1.6 on 6 of 6 obs.

% JUN 16, 1990 00h 28m 49.22±4.42s
44.771 N ± 7.3km 6.653 E ± 41.9km
DEPTH = 10.0km (geophysicist)
FRANCE (538)

ML 2.3 (GEN).
RRL 0.18 32 P 28 53.03 -0.3
S 28 55.70
PZZ 0.42 129 P 28 57.75 0.0
S 29 03.90
RSP 0.57 48 P 29 01.03 0.1
S 29 10.05
STV 0.71 137 P 29 03.18 -0.1
S 29 13.23
ENR 0.77 134 P 29 04.51 0.1
S 29 14.77
LSD 0.77 27 P 29 04.72 0.2
S 29 14.87
S.D. = 0.3 on 6 of 6 obs.

JUN 16, 1990 01h 34m 11.22±0.19s
22.607 S ± 7.1km 176.720 W ± 5.0km
DEPTH = 139.4km (22 depth phases)
5.3mb (19 obs.)
SOUTH OF FIJI ISLANDS (171)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 18C
Centroid Location:
Origin Time 01:34:17.6 0.9
Lat 22.34S 0.11 Lon 176.53W 0.05
Dep 137.3 1.7 Half-duration 2.4
Moment Tensor: Scale 10**17 Nm
Mrr= 0.81 0.09 Mtt= 0.42 0.17
Mff=-1.23 0.17 Mrte=-1.17 0.10
Mrf=-2.74 0.11 Mltf=-0.05 0.15
Principal Axes:
T Vol= 3.05 Plg=53 Azm=124
N 0.22 10 21
P -3.27 36 284
Best Double Couple: Mo=3.2*10**17
NP1: Strike=333 Dip=13 Slip= 41
NP2: 203 81 100

SVA 6.36 314 ePc 35 47.60 3.8X
VUN 6.43 314 eP 35 45.60 0.8
NDF 7.30 310 eP 36 01.90 5.4X
PVC 14.86 286 iPc 37 41.20 5.7X
DZM 15.59 269 iPc 37 49.10 4.4X
iS 40 54.90
ScP 45 22.40
MRW 19.92 199 P 38 29.00 -5.0X
S 41 53.00
TVO 26.20 84 iP 39 33.40 -1.4
1.2s 180.00nm 5.6mb
BRS 28.02 254 iP 39 53.20 2.0
i 40 23.00 141km
RMQ 31.58 256 eP 40 23.00 0.3
1.1s 195.00nm 5.8mb
e 43 18.00
CNB 32.10 239 eP 40 29.00 1.8

CAN 32.39 239 eP 40 31.00 1.3
e 46 49.00
BWA 32.66 241 eP 40 30.20 -1.9
e 46 47.30
CMS 34.37 247 eP 40 46.50 -0.3
CTA 34.52 267 iPc 40 48.10 0.0
0.5s 123.24nm 5.9mb
i 41 19.80 147km
iS 46 06.00
OLP 35.63 256 iPd 40 57.50 0.1
TOO 35.68 237 eP 40 56.00 -1.8
PMG 37.01 285 eP 41 11.00 1.9
BFD 37.89 238 eP 41 15.00 -1.3
STK 38.00 247 eP 41 18.60 1.3
1.2s 34.00nm 5.0mb
RKT 38.38 99 eP 41 18.00 -2.5
1.2s 50.00nm 5.2mb
OIS 40.56 264 iPc 41 38.40 -0.2
e 47 37.00
WB5 45.51 264 eP 42 16.90 -1.7
eS 48 45.00
WRA 45.52 264 Pd 42 16.60 -2.1
0.4s 16.80nm 5.1mb
MTN 50.40 272 iPc 42 55.50 -1.0
WARB 51.36 254 eP 43 00.00 -3.7X
0.3s 17.00nm 5.3mb
KNA 51.71 267 eP 43 04.90 -1.5
0.4s 52.00nm 5.7mb
GUMO 52.06 310 eP 43 16.50 7.5X
eS 50 22.00
PJG 52.06 310 eP 43 15.60 6.6X
COOL 55.49 247 eP 43 32.00 -2.0
SBA 55.86 184 iP 43 38.10 2.2
KLB 58.26 246 eP 43 52.60 -0.9
MEKA 58.45 252 eP 43 54.00 -0.9
MUN 59.51 245 eP 44 02.00 -0.1
MRWA 60.16 248 eP 44 04.00 -2.6
NANU 62.02 256 eP 44 17.70 -1.4
0.4s 25.00nm 5.5mb
SPA 67.53 180 iPd 44 54.70 0.5
1.2s 127.46nm 5.6mb
i 45 35.60 172kmX
MAT 72.60 323 (P) 45 27.00 1.9
eS 54 40.00
ADK 74.17 0 eP 45 31.60 -2.1
1.0s 60.00nm 5.3mb
PRS 78.53 43 ePc 45 59.00 0.4
eP 46 33.70 139km
AIA 78.57 157 e(P) 45 59.00 0.7
GCC 78.59 42 ePc 45 58.80 0.0
eP 46 33.90 140km
PCC 78.65 41 ePc 45 59.20 0.0
SAO 78.76 42 ePc 46 00.60 0.8
PRI 78.86 43 ePc 46 01.00 0.5
eP 46 34.40 133km
BRK 78.96 41 ePc 46 01.10 0.3
MHC 79.00 42 ePc 46 01.10 -0.2
eP 46 36.70 142km
PAS 79.26 46 eP 46 03.00 0.4
MWC 79.38 46 eP 46 03.00 -0.5
BAR 79.41 48 eP 46 03.00 -0.5
PLM 79.68 47 eP 46 05.00 0.0
e 46 40.00 140km
RVR 79.70 47 eP 46 05.00 0.1
SBB 79.81 46 eP 46 05.00 -0.6
e 46 38.00 131km
FHC 79.86 38 ePc 46 06.20 0.5
ISA 79.97 45 eP 46 06.00 -0.4
e 46 41.00 139km
FRI 79.99 43 ePc 46 06.20 -0.2
eP 46 41.30 140km
MAW 79.99 200 iPc 46 07.10 1.2
1.2s 43.00nm 5.1mb
CMB 80.21 42 ePc 46 07.60 0.0
iP 46 42.60 139km
DRV 80.50 40 ePc 46 08.90 -0.1
eP 46 43.90 139km
WDC 80.55 39 ePc 46 09.70 0.5
iP 46 44.60 139km
CLC 80.63 45 eP 46 10.00 0.1
e 46 45.00 139km
GSC 80.85 46 eP 46 11.00 -0.1
GLA 80.90 49 eP 46 12.00 0.7
e 46 47.00 139km
MIN 80.94 39 ePc 46 11.00 -0.5
NJ2 82.13 309 eP 46 17.00 -0.6
TNP 82.22 43 P 46 18.00 -0.3

Table with columns for station ID, time, depth, and seismic data. Includes stations KRI, BUL, KHC, NAO.

Table for ALASKA station data, including station IDs FYU, IMA, GLM, FBA, CCB, WRH, INK, YKA.

Table for CENTRAL ALASKA station data, including station IDs NEA, KTH, WRH, MCK, CCB, FBA, GLM, IMA, HUR, CUT, DMW, SKT, TTA, PAX, GHO, PWA.

Large table of station data for CENTRAL ALASKA, including stations like NEA, KTH, WRH, MCK, CCB, FBA, GLM, IMA, HUR, CUT, DMW, SKT, TTA, PAX, GHO, PWA, FYU, SML, PLRM, PMR, SUA, DOT, SDG, NCG, SCM, TOA, CRP, PMS, SPU, KLU, SVW, RDT, VLZ, VZW, SLKM, GLI, RED, SEW, DWY, CNPM.

Table of station data for various locations including HYT, INK, MBC, YKA, PNT, NEW, SES, BW06, KVN, TNP, NAO, EKA, FLN, LDF, GRR, KHC, CDF, HAU, BSF, LOR, MFF, SSF, AVF, ZST.

Table for RYUKYU ISLANDS station data, including station IDs KAGJ, KUMJ, ANP, SSE, SHNJ, SHK, TKSJ, YONJ, NJ2, OZH.

Table of station data for various locations including WKYJ, TSRJ, IIDJ, DL2.

Large table of station data for various locations including MAT, WHN, TIA, CHJJ, NIJJ, KAKJ, BAG, HKC, GZH, SNY, YAMJ, MCO, OCP, BJI, CN2, AOMJ, TIY, MDJ, XAN, MRRJ, HHC, QIZ, HOOJ, GYA, BTO, ASAJ, KUSJ, CD2, GUMO, PJG, GUA.

16d 09h

SML 3.02 45 eP 11 33.06 -2.3
17 obs. associated

% JUN 16, 1990 10h 05m 10.10 ± 0.95s
42.081 N ± 6.7km 12.849 E ± 7.8km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

RMP 0.29 202 P 05 16.40 0.2
eSg 05 20.90
AZI 0.45 102 P 05 19.50 0.3
eSg 05 25.00
AQU 0.49 56 P 05 20.40 0.3
eSg 05 27.20
SDI 0.81 117 P 05 25.30 -0.6
eSg 05 37.50
ASS 1.00 352 P 05 28.90 -0.2
eSg 05 44.50
S.D. = 0.5 on 5 of 5 obs.

* JUN 16, 1990 10h 06m 12.95 ± 0.88s
41.840 N ± 8.8km 23.256 E ± 9.5km
DEPTH = 33.0km (normal)
GREECE-BULGARIA BORDER REGION (363)

MMB 0.43 125 iPgc 06 23.00 0.4
iSg 06 29.00
VAY 0.73 225 ePg 06 26.80 0.0
iSg 06 36.30
VTS 0.75 357 iPg 06 27.00 -0.2
PGB 0.98 43 ePg 06 31.00 0.5
RZN 1.10 97 eP 06 41.00 8.7X
KDZ 1.63 96 eP 06 39.00 -0.7
PVL 2.06 47 iPc 06 54.00 8.1X
S.D. = 0.7 on 5 of 7 obs.

% JUN 16, 1990 10h 28m 02.55 ± 1.27s
29.276 N ± 10.8km 105.193 E ± 13.8km
DEPTH = 10.0km (geophysicist)
SICHUAN PROVINCE, CHINA (307)
ML 3.6 (BJI).

CD2 2.05 323 Pg 28 38.00 0.5
Sg 29 04.40
GYA 3.09 155 Pn 28 52.00 -0.4
Pg 29 05.00
Sn 29 28.40
Sg 29 43.60
KMI 4.68 208 Pgd 29 26.00 10.9X
1.6s 80.00nm
XAN 5.71 33 Pn 29 29.70 0.1
Sn 30 36.00
Sg 31 06.50
WHN 8.05 79 eP 30 03.50 1.2
E 12s 0.40um
TIY 10.36 34 eP 30 32.80 -1.5
S.D. = 1.4 on 5 of 6 obs.

? JUN 16, 1990 10h 44m 43.27 ± 6.42s
36.234 N ± 66.5km 70.420 E ± 23.5km
DEPTH = 190.6 ± 27.7 km
4.6mb (6 obs.)
HINDU KUSH REGION (718)

QUE 6.69 207 eP 46 20.40 0.0
eS 47 38.20
NDI 9.46 141 iPc 46 56.50 -0.1
0.6s 16.67nm 4.6mb
eS 48 36.00
GKN 14.56 120 P 48 01.60 -0.2
0.4s 11.00nm 4.6mb
DMN 15.13 120 P 48 09.80 0.9
0.6s 10.00nm 4.4mb
PKI 15.37 120 P 48 11.60 -0.3
0.4s 13.00nm 4.7mb
GUN 15.50 118 P 48 13.20 -0.3
0.4s 11.00nm 4.6mb
GBA 23.40 163 Pc 49 36.10 0.0
0.7s 3.00nm 4.0mb
S.D. = 0.6 on 7 of 7 obs.

? JUN 16, 1990 10h 49m 58.29 ± 1.18s
37.033 N ± 14.1km 23.190 E ± 12.0km
DEPTH = 89.5 ± 25.2 km
SOUTHERN GREECE (368)

ATH 0.44 71 eP 50 23.00 10.3X

ITM 1.20 237 eP 50 24.80 4.2X
NEO 1.47 1 eP 50 24.70 0.6
APE 2.01 112 eP 50 31.20 0.0
VLS 2.08 280 eP 50 32.00 -0.1
VAY 3.52 352 eP 50 51.00 -0.7
SMF 16.78 308 eP 53 49.30 0.3
S.D. = 1.0 on 5 of 7 obs.

JUN 16, 1990 11h 09m 30.48 ± 0.57s
6.682 S ± 7.9km 149.145 E ± 7.1km
DEPTH = 54.1km (2 depth phases)
4.6mb (4 obs.)
NEW BRITAIN REGION (192)

LAT 2.13 271 iPd 10 04.00 -0.3
eS 10 25.00
PMG 3.35 216 iPc 10 22.00 0.4
eS 11 00.00
RAB 3.90 51 e(P) 10 28.50 -0.8
MNDI 5.48 275 eP 10 52.50 0.7
CTA 13.62 192 iPc 12 43.90 1.2
1.0s 19.00nm 4.8mb
OIS 16.61 213 eP 13 20.00 -1.2
eS 16 18.00
MTN 18.77 250 eP 13 47.00 -1.1
e 17 00.00
WB5 19.44 226 eP 13 54.20 -1.4
eS 17 19.20
eScP 21 55.20
WRA 19.50 226 Pc 13 54.70 -1.5
0.4s 10.00nm 4.5mb
RMO 19.70 181 iPc 13 57.80 -0.5
0.8s 64.00nm 5.0mb
QLP 20.34 193 eP 14 08.60 48km
i 14 04.50 -0.4
i 14 17.80 60km
KNA 21.91 244 eP 14 20.50 -0.3
DZM 22.65 134 iPc 14 28.60 0.3
STK 26.05 195 eP 15 03.20 2.7
1.1s 9.00nm 4.2mb
WARB 28.92 225 eP 15 26.50 -0.2
MEKA 35.23 232 iPd 16 22.10 0.2
NANU 36.03 240 eP 16 29.00 0.3
MRWA 38.45 230 eP 16 49.00 0.0
KGM 46.55 279 eP 17 56.00 1.0
IPM 49.32 282 ePd 18 18.10 1.5
KVN 96.30 51 P 22 45.80 -9.1X
e 22 57.00 36kmX
TNP 96.93 53 (P) 22 43.00 -14.8X
APO 116.68 337 ePKP 28 09.70 -0.3
0.4s 1.00nm
ZOBO 136.64 122 PKP 29 00.20 10.0X
i 32 33.00
SIV 142.55 127 ePKP 29 00.00 -0.2
BAO 152.08 143 e(PKP) 29 32.00 16.4X
S.D. = 1.1 on 22 of 26 obs.

* JUN 16, 1990 11h 28m 17.81 ± 1.49s
36.024 N ± 11.5km 29.234 E ± 11.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ELL 0.90 37 iPg 28 35.00 -0.2
iSg 28 46.00
YER 1.35 326 iPn 28 42.50 -0.1
BCK 1.80 37 iPn 28 49.00 -0.2
KHL 2.31 6 iPn 28 56.80 0.3
ALT 3.10 13 ePn 29 08.00 0.2
CSS 3.51 106 eP 29 13.00 -0.5
LFK 3.58 101 iPn 29 15.10 0.6
S.D. = 0.4 on 7 of 7 obs.

% JUN 16, 1990 11h 44m 25.22 ± 1.05s
44.497 N ± 6.3km 7.006 E ± 10.1km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.2 (GEN).

PZZ 0.07 83 P 44 27.81 0.1
S 44 29.22
STV 0.34 138 P 44 32.39 0.1
S 44 36.88
ENR 0.40 132 P 44 33.65 0.2
S 44 38.50
RRL 0.45 340 P 44 34.22 -0.3
S 44 40.32
ROB 0.65 108 P 44 38.03 -0.2

RSP 0.68 15 P 44 47.07 S
S 44 38.62 -0.1
S 44 47.34
IMI 0.86 132 P 44 41.82 -0.1
S 44 53.10
FIN 0.91 108 P 44 42.60 0.0
S 44 54.16
LSD 0.97 6 P 44 44.23 0.5
S 44 55.64
PCP 1.10 87 P 44 45.88 -0.1
S 45 00.17
S.D. = 0.2 on 10 of 10 obs.

% JUN 16, 1990 12h 32m 42.74 ± 0.44s
45.337 N ± 3.7km 7.104 E ± 4.1km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.3 (GEN).

LSD 0.13 17 P 32 46.15 0.1
S 32 47.90
RSP 0.21 150 P 32 48.00 0.5
S 32 51.38
LPG 0.30 303 Pg 32 49.10 0.1
Sg 32 52.80
LPL 0.32 305 Pg 32 49.40 0.0
Sg 32 53.20
BNI 0.42 227 Pd 32 51.00 -0.3
iSg 32 56.80
RRL 0.47 209 P 32 52.92 0.5
S 32 59.18
ORO 0.60 65 P 32 56.30 0.0
iSg 33 05.60
ORX 0.68 64 P 32 56.31 -0.1
S 33 05.53
DOI 0.84 173 P 32 59.00 0.0
eSg 33 10.50
ENR 1.13 168 P 33 03.28 -0.7
S 33 17.12
S.D. = 0.4 on 10 of 10 obs.

? JUN 16, 1990 12h 42m 58.21 ± 1.37s
41.156 N ± 22.7km 28.523 E ± 17.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ISK 0.41 102 iPg 43 06.60 -0.1
YLV 0.87 132 iPg 43 15.00 0.0
DMK 0.88 319 iPg 43 15.10 0.0
iSg 43 27.60
HRT 0.93 111 ePn 43 16.10 0.1
S.D. = 0.2 on 4 of 4 obs.

? JUN 16, 1990 12h 43m 27.71 ± 6.56s
68.523 N ± 19.7km 33.090 E ± 55.8km
DEPTH = 10.0km (geophysicist)
4.3mb (2 obs.)
EUROPEAN USSR (724)
MD 4.4 (BER).

KTK1 3.62 282 iP 44 26.15 1.2
eSn 45 09.82
TRO 5.20 289 iP 44 46.68 -0.5
eSn 45 47.98
LOF 7.24 276 iP 45 14.93 -1.1
eSn 46 36.08
NSS 9.30 255 iP 45 45.21 0.6
eSn 47 31.56
RGS 10.77 250 eP 46 05.70 0.9
eSn 48 08.50
UPP 10.96 225 iPn 46 07.90 0.5
iSg 49 23.40
HFS 11.83 234 eP 46 18.70 -0.6
0.4s 6.70nm 5.3mb X
MOL 12.07 253 iP 46 22.48 0.0
eSn 48 38.69
NAO 12.19 242 P 46 22.80 -1.3
0.7s 5.10nm 4.9mb
EKA 21.14 250 Pd 48 14.80 0.2
0.7s 2.40nm 3.7mb
ZST 21.90 210 eP 48 36.20 13.9X
S.D. = 0.9 on 10 of 11 obs.

* JUN 16, 1990 14h 00m 30.07 ± 2.46s
7.477 S ± 12.1km 128.809 E ± 13.2km
DEPTH = 145.2 ± 29.0 km
5.2mb (2 obs.)

BANDA SEA (280)	
MTN	5.80 157 iPd 01 55.20 0.1 eS 02 46.00
KNA	8.22 180 eP 02 26.80 -0.9 eS 03 52.00
WB5	13.46 157 eP 03 35.00 -1.4 eS 05 57.30
WRA	13.50 157 Pc 03 37.20 0.2 0.2s 4.30nm 4.5mb X
QIS	16.68 142 iPd 04 19.00 2.2 e 05 34.00
WARB	18.72 186 eP 04 41.50 1.3 eS 08 01.00
NANU	19.71 219 eP 04 51.20 0.8
GUA	26.30 38 eP 05 54.00 0.0 1.0s 160.00nm 5.6mb
GUMO	26.31 37 eP 05 55.00 0.9
PJG	26.31 37 eP 05 54.00 -0.1
RMQ	26.78 137 iPc 05 56.20 -2.2
GUN	54.38 312 P 09 44.60 -0.1
PKI	54.54 312 P 09 45.60 -0.3
GKN	55.35 311 P 09 51.00 -0.5 0.4s 5.00nm 4.7mb S.D. = 1.3 on 14 of 14 obs.

JUN 16, 1990 14h 13m 24.17 ± 1.31s
32.546 S ± 5.6km 71.642 W ± 11.7km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)

ROCH	0.68 129 iPd 13 38.00 0.2 iS 13 52.00
JACH	0.90 99 iPd 13 40.50 -0.9 iS 13 55.50
LCCH	0.93 176 ePd 13 41.80 -0.1 i 13 57.10
PEL	1.00 127 iPd 13 43.10 -0.1 iS 14 00.10
TACH	1.25 152 iP 13 47.00 -0.5 iS 14 06.60
FCH	1.38 125 iPc 13 49.40 -0.3 iS 14 41.10 iS 15 12.00
LNV	1.42 172 iP 13 49.60 -0.4 iS 14 11.00
PCH	1.43 139 iPd 13 51.00 0.8 i 14 15.00
CHCH	1.61 149 eP 13 53.50 0.7 i 14 19.30
RTBS	2.06 65 eP 13 59.00 -0.2 S 14 28.00
RTCV	2.64 67 eP 14 09.20 1.6
RTLL	2.72 76 eP 14 09.30 0.6
RTCB	2.96 67 eP 14 11.30 -0.8
RTRS	3.02 39 ePc 14 12.30 -0.5
CFA	3.04 73 iPd 14 13.00 -0.2 S 14 57.30 S.D. = 0.7 on 15 of 15 obs.

* JUN 16, 1990 14h 19m 53.74 ± 1.00s
39.158 N ± 8.6km 20.520 E ± 11.4km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 3.0 (ATH).

KEK	0.79 315 ePb 20 08.50 -0.6
VLS	0.98 177 ePb 20 12.50 0.1
OHR	1.96 6 ePn 20 29.00 1.6
NEO	2.10 85 ePn 20 29.50 0.0
VAY	2.67 35 ePn 20 36.40 -1.1
SKO	2.90 14 ePn 20 50.00 9.3X
S.D. = 1.4 on 5 of 6 obs.	

‡ JUN 16, 1990 14h 58m 12.49 ± 3.10s
40.578 N ± 16.6km 30.347 E ± 19.8km
DEPTH = 5.0km (geophysicist)
TURKEY (366)

GPA	0.29 186 iPg 58 17.70 -0.7 iSg 58 20.70
HRT	0.57 296 ePg 58 24.00 0.1
IZI	0.71 250 iPg 58 27.50 0.8
YLV	0.74 269 iPg 58 26.50 -0.8 iSg 58 37.00
ALT	1.53 187 ePn 58 41.20 0.6
S.D. = 1.0 on 5 of 5 obs.	

? JUN 16, 1990 18h 19m 05.39 ± 0.94s
39.192 N ± 8.5km 20.473 E ± 10.2km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 2.8 (ATH).

KEK	0.74 315 ePb 19 20.00 0.1
VLS	1.02 175 ePb 19 24.50 -0.1
OHR	1.93 7 ePn 19 42.20 3.5X
NEO	2.14 86 ePn 19 42.00 0.4
VAY	2.66 36 ePn 19 48.70 -0.4
S.D. = 0.6 on 4 of 5 obs.	

? JUN 16, 1990 19h 10m 12.27 ± 1.21s
39.138 N ± 8.1km 20.623 E ± 17.1km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 3.0 (ATH).

VLS	0.96 182 ePb 10 30.50 0.0 eSb 10 46.00
OHR	1.98 4 iPn 10 46.30 0.1
NEO	2.03 84 ePn 10 47.00 0.1
VAY	2.64 34 ePn 10 55.40 -0.2
SKO	2.90 12 ePn 11 09.00 9.7X
S.D. = 0.3 on 4 of 5 obs.	

? JUN 16, 1990 19h 15m 39.29 ± 6.38s
31.626 S ± 24.5km 68.272 W ± 34.2km
DEPTH = 86.7 ± 47.4 km
SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.03 55 iPd 15 51.90 -0.1 eS 16 03.00
RTCV	0.33 224 iPc 15 52.80 0.1
RTLL	0.34 330 iPd 15 52.80 0.0
RTCB	0.47 287 iPc 15 53.80 0.0 S 16 05.50
RTBS	1.01 268 ePc 15 59.00 -0.1 S 16 16.10
RTRS	1.78 325 iPc 16 08.90 0.0 eS 16 32.40
S.D. = 0.1 on 6 of 6 obs.	

JUN 16, 1990 19h 27m 12.37 ± 0.53s
24.555 N ± 8.7km 141.671 E ± 6.9km
DEPTH = 122.8km (2 depth phases)
4.7mb (8 obs.)
VOLCANO ISLANDS REGION (213)

KAKJ	11.68 354 P 29 55.70 -0.6 eS 32 03.10
CHJJ	11.69 349 P 29 56.00 -0.3 eS 32 00.00
MAT	12.31 347 eP 30 04.00 -0.6 0.6s 6.67nm 4.4mb X eS 32 17.00
MTMJ	12.44 345 eP 30 07.00 0.7
NIJJ	12.85 350 P 30 10.60 -0.9
YAMJ	13.65 355 P 30 23.40 1.5 eS 32 50.90
AOMJ	16.00 356 eP 30 55.30 3.8X
SSE	19.24 294 Pc 31 30.00 0.5 0.8s 32.00nm 4.7mb
WHN	24.91 290 eP 32 25.50 0.1
GVA	31.60 281 P 33 24.80 -0.9
KMI	35.25 279 Pc 33 56.50 -0.8
GTA	38.12 303 eP 34 20.40 -0.7
WB5	44.73 190 eP 35 10.00 -5.1X
WRA	44.80 190 Pc 35 10.00 -5.7X 0.3s 1.80nm 4.3mb
SHL	44.90 282 iP 35 09.50 -7.2X
WMQ	47.72 308 P 35 37.70 -0.9
GUN	49.80 287 P 35 56.80 1.7 0.4s 26.00nm 5.5mb
PKI	50.27 286 P 35 59.80 1.2 0.6s 10.00nm 4.9mb
DMN	50.52 286 P 36 01.80 1.3
GKN	50.86 287 P 36 04.20 1.3
GBA	61.22 272 Pd 37 14.10 -2.7 0.8s 9.90nm 4.8mb
YKA	74.59 28 eP 38 38.30 -0.9 0.4s 1.30nm 4.1mb
WDC	78.59 51 ePc 39 01.50 -0.5
PCC	79.89 53 ePc 39 08.80 -0.2
PRS	81.10 54 ePc 39 15.70 0.3

CMB	81.13 52 ePc 39 15.60 0.0
PRI	81.70 54 e(P) 39 19.40 0.7
SES	81.70 38 eP 39 19.00 0.7 pP 39 52.00 130km
FRI	82.05 53 e(P) 39 19.80 -0.5
KVN	82.34 51 P 39 22.10 0.1
TNP	83.38 51 P 39 27.60 0.2 e 39 57.50 116km
FFC	84.14 32 eP 39 31.00 0.4 0.8s 11.00nm 4.8mb
HFS	85.56 337 eP 39 34.20 -3.5X 0.4s 0.90nm 4.0mb S.D. = 1.0 on 28 of 33 obs.

* JUN 16, 1990 19h 47m 26.75 ± 0.59s
12.077 N ± 11.1km 125.177 E ± 15.0km
DEPTH = 33.0km (normol)
4.9mb (7 obs.)
SAMAR, PHILIPPINE ISLANDS (251)

KGM	23.86 247 eP 52 51.50 13.3X
CHG	26.14 288 eP 53 02.10 2.2
BJI	28.97 346 eP 53 24.50 -0.8
WB5	33.02 164 eP 54 00.20 -1.1
WRA	33.07 164 P 54 02.00 0.3 0.5s 1.60nm 4.2mb
QIS	35.40 156 iPd 54 21.40 -0.4
WARB	38.06 178 eP 54 45.00 0.9
GUN	39.94 299 P 55 00.00 -0.3 0.6s 41.00nm 5.4mb
PKI	40.26 299 P 55 02.70 -0.2 0.8s 26.00nm 5.0mb
DMN	40.53 298 P 55 04.60 -0.4 0.8s 32.00nm 5.1mb
GKN	41.03 299 P 55 08.20 -0.8
GBA	46.52 277 Pc 55 52.70 -0.5 0.6s 6.10nm 4.7mb
QUE	56.64 298 eP 57 08.50 -1.1
SOD	82.22 337 eP 59 46.00 0.4
SUF	83.47 333 iP 59 53.00 0.8 0.5s 3.80nm 4.8mb
MBC	84.19 13 eP 59 56.50 0.8 0.9s 5.00nm 4.7mb S.D. = 1.0 on 15 of 16 obs.

& JUN 16, 1990 19h 52m 31.99s
58.621 N 153.899 W
DEPTH = 70.7km
KODIAK ISLAND REGION (13)
<AGS-P>.

CDD	0.34 23 iP 52 42.91 -0.8 eS 52 52.26
MCNL	0.61 338 iP 52 45.44 -0.7 eS 52 56.35
AUE	0.79 20 iP 52 47.60 -0.6
AUL	0.80 17 eP 52 47.72 -0.6
KDC	1.15 139 eP 52 52.16 -0.5 eS 53 07.82
CNPM	1.65 55 eP 52 58.04 -1.4
RED	1.89 17 eP 53 01.38 -1.5
NNL	1.95 42 eP 53 02.72 -0.8
SLKM	2.66 43 eP 53 11.88 -1.6
SEW	2.72 55 eP 53 11.22 -3.0
SPU	2.73 19 iP 53 13.02 -1.4
CRP	2.80 18 eP 53 14.22 -1.2
CGLM	2.86 19 eP 53 15.00 -1.3
NCG	2.93 17 eP 53 15.82 -1.4
14 obs. associated	

JUN 16, 1990 20h 08m 50.39 ± 0.28s
26.706 N ± 5.9km 44.611 W ± 4.7km
DEPTH = 10.0km (geophysicist)
4.5mb (11 obs.) 4.0msz (2 obs.)
NORTH ATLANTIC RIDGE (403)

LPF	39.97 46 eP 16 26.90 0.3 1.1s 12.20nm 4.5mb
MFF	40.19 48 eP 16 28.60 0.2 1.2s 14.90nm 4.5mb
LKO	40.61 107 P 16 32.14 -0.2
LDF	40.72 45 eP 16 32.70 0.0
LSF	41.24 49 eP 16 37.00 -0.1
TCF	41.71 49 eP 16 40.90 -0.1
BAO	42.21 185 eP 16 45.50 0.1
AVF	42.58 49 eP 16 47.80 -0.2
SSF	42.73 49 eP 16 49.20 -0.1

YLV 1.15 360 iPn 56 51.00 -0.3
S.D. = 0.5 on 4 of 4 obs.

* JUN 16, 1990 23h 46m 33.54 ± 0.96s
55.086 N ± 17.4km 161.120 E ± 19.5km
DEPTH = 33.0km (normal)
4.4mb (4 obs.)

NEAR EAST COAST OF KAMCHATKA (218)

MAT 24.28 230 iPc 51 48.70 0.1
1.1s 11.39nm 4.3mb

FBA 26.61 48 (P) 52 30.00 19.8X
MBC 34.97 24 eP 53 24.50 0.6
YKA 41.30 44 eP 54 16.60 -0.3
0.6s 0.80nm 3.6mb

CDF 74.56 342 eP 50 10.20 -0.2
HAU 75.11 343 eP 58 13.20 -0.4
FLN 75.38 348 eP 58 14.20 -0.8
GRR 75.79 348 eP 58 16.90 -0.5
LOR 76.23 344 eP 58 19.40 -0.5
0.5s 2.20nm 4.4mb

SSF 76.49 344 eP 58 21.10 -0.2
LBF 76.49 344 eP 58 21.30 -0.1
AVF 76.78 345 eP 58 22.60 -0.3
MAF 77.45 345 eP 58 26.80 0.1
LPL 77.45 342 eP 58 27.90 0.9
LPG 77.47 342 eP 58 28.00 0.9
0.6s 2.25nm 4.4mb

LFF 78.97 346 eP 58 35.40 0.4
LPO 79.16 346 eP 58 36.40 0.4
S.D. = 0.5 on 16 of 17 obs.

? JUN 17, 1990 00h 20m 15.76 ± 1.09s
5.678 S ± 22.3km 151.013 E ± 19.6km
DEPTH = 87.3 ± 22.7 km
4.1mb (1 obs.)

NEW BRITAIN REGION (192)

RAB 1.87 38 iPc 20 46.70 0.0
LAT 4.11 256 eP 21 23.00 5.6X
KDB 5.37 225 eP 21 35.00 0.0
RMO 20.81 186 iPc 24 51.80 -0.4
WB5 21.48 227 eP 24 59.80 0.9
WRA 21.54 227 Pd 24 58.70 -0.8
1.2s 11.80nm 4.1mb

BRS 21.66 176 iP 25 01.00 0.3
S.D. = 0.9 on 6 of 7 obs.

& JUN 17, 1990 00h 27m 45.94s
63.271 N 151.115 W
DEPTH = 11.6km
3.0mb (1 obs.)

CENTRAL ALASKA (1)

<AGS-P>. ML 3.9 (PMR).

KTH 0.30 17 iP 27 52.17 -0.1
HUR 0.73 113 iP 27 59.69 -0.5
iS 28 09.13

CUT 0.95 156 iP 28 04.13 0.2
MCK 1.08 64 iP 28 06.02 -0.1
iS 28 19.79

SKT 1.31 189 iP 28 10.08 0.1
eS 28 27.14

NEA 1.59 34 iP 28 12.82 -1.2
eS 28 33.44

PWA 1.72 160 eP 28 15.80 -0.1
WRH 1.80 47 iP 28 15.93 -1.1
GHO 1.82 145 eP 28 17.50 0.2
eS 28 40.60

SUA 1.82 174 iP 28 18.09 0.6
eS 28 42.11

PLRM 1.92 150 eP 28 18.66 -0.1
PMR 1.92 150 eP 28 18.60 -0.2
NCG 1.94 195 iP 28 19.49 0.4
iS 28 45.13

SML 1.95 137 eP 28 18.75 -0.6
CCB 2.01 45 iP 28 18.76 -1.3
CGLM 2.01 192 eP 28 20.55 0.3
eS 28 46.48

CRP 2.07 194 eP 28 21.48 0.4
SPU 2.14 192 eP 28 22.73 0.7
PMS 2.16 160 eP 28 22.70 0.4
FBA 2.19 40 ePc 28 21.20 -1.5
TTA 2.25 263 iPc 28 22.50 -1.2
SCM 2.27 128 eP 28 23.92 0.0
GLM 2.37 42 iP 28 24.09 -1.3
TOA 2.56 115 eP 28 27.40 -0.6

PAX 2.58 94 eP 28 29.20 0.8
SDG 2.66 104 eP 28 30.61 1.2
SLKM 2.81 171 eP 28 32.46 1.0
RED 2.97 196 eP 28 34.61 0.8
KLU 3.01 124 eP 28 35.07 0.7
IMA 3.02 340 iPd 28 34.00 -0.5
SVW 3.03 226 eP 28 33.90 -0.7
GLI 3.06 140 eP 28 35.77 0.8
VZW 3.08 134 eP 28 35.98 0.6
VLZ 3.10 132 eP 28 35.96 0.4
SEW 3.28 165 eP 28 38.09 0.0
CNPm 3.76 181 eP 28 45.77 0.7
FYU 4.15 35 eP 28 48.57 -1.8
TGL 4.65 119 eP 28 57.81 0.1
BALM 4.68 115 eP 28 58.19 -0.1
KDC 5.58 188 eP 29 11.00 0.2
YKA 16.52 76 eP 31 45.00 6.3
0.5s 0.70nm 3.0mb

MBC 16.66 26 eP 31 41.00 0.7
42 obs. associated

? JUN 17, 1990 00h 52m 23.46 ± 3.18s
10.291 S ± 15.8km 165.059 E ± 20.7km
DEPTH = 53.5 ± 25.7 km
4.1mb (2 obs.)

SANTA CRUZ ISLANDS (184)

HNR 5.11 279 eP 53 40.00 0.6
eS 54 37.00

DZM 11.79 174 iPc 55 10.00 -1.6
iS 57 16.40

BRS 20.57 213 iPc 57 01.00 0.6
CTA 20.57 240 iPc 57 00.00 -0.5
0.9s 19.75nm 4.4mb

RMQ 22.29 222 eP 57 19.00 1.3
COO 23.61 209 eP 57 32.00 1.5
CMS 27.61 217 eP 58 09.00 1.1
WB5 31.08 249 eP 58 37.80 -1.2
WRA 31.12 248 Pc 58 38.20 -1.2
0.6s 1.00nm 3.7mb

FBA 82.82 18 (P) 04 44.60 1.6
GKN 86.45 299 P 05 00.00 -2.2
S.D. = 1.6 on 11 of 11 obs.

% JUN 17, 1990 01h 29m 03.78 ± 1.23s
43.302 N ± 8.3km 13.684 E ± 12.4km
DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)

ARV 0.58 290 Pd 29 14.90 -0.6
ASS 0.78 253 P 29 18.50 -0.6
eSg 29 32.00

AQU 0.97 192 Pc 29 22.70 0.5
RSM 1.09 305 Pd 29 26.30 2.0
eSg 29 42.20

CRE 1.30 285 P 29 27.00 -1.0
AZI 1.33 188 P 29 29.00 0.8
PGD 1.54 293 P 29 32.00 0.6
SDI 1.60 176 P 29 31.00 -1.2
eSg 29 53.50

DUI 1.74 160 P 29 34.50 0.3
CTI 3.11 333 P 29 52.90 -0.9
eSn 30 29.50

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

& JUN 17, 1990 02h 40m 10.40s
41.035 N 123.447 W
DEPTH = 33.0km

NORTHERN CALIFORNIA (36)

<BRK>. ML 3.0 (BRK).

FHC 0.47 240 iPd 40 19.50 -1.1
i 40 27.90

WDC 0.83 123 iPc 40 24.60 -1.0
iS 40 35.90

LBFM 1.22 75 eP 40 31.20 -0.2
LTCM 1.30 129 eP 40 33.50 1.1
MIN 1.56 116 eP 40 34.50 -1.8
ORV 2.10 134 ePc 40 43.10 -0.8
KVN 4.56 114 eP 41 22.00 3.0
7 obs. associated

& JUN 17, 1990 03h 10m 51.80s
40.347 N 124.843 W
DEPTH = 17.0km

NEAR COAST OF NORTHERN CALIF. (35)

<BRK>. ML 3.0 (BRK).

FHC 0.80 55 iPc 11 06.00 -0.8
e(S) 11 21.30

WDC 1.77 82 ePc 11 19.70 -2.2
eS 11 41.40

LBFM 2.45 65 eP 11 30.50 -1.4
ORV 2.69 106 e(P) 11 31.20 -3.9
BRK 3.18 140 eP 11 39.70 -2.4
PCC 3.43 145 eP 11 42.30 -3.2
ARN 3.95 138 eP 11 50.30 -2.7
SAO 4.46 142 ePc 11 55.80 -4.4
KVN 5.36 102 eP 12 10.00 -3.2
9 obs. associated

* JUN 17, 1990 04h 01m 50.35 ± 1.23s
36.245 N ± 16.1km 27.174 E ± 7.1km
DEPTH = 10.0km (geophysicist)

DODECANESE ISLANDS (369)

YER 1.26 45 ePn 02 12.80 -1.0
SMG 1.49 350 eP 02 17.30 0.2
APE 1.56 302 eP 02 19.30 1.1
KSL 1.95 93 eP 02 24.00 0.1
ELL 2.26 76 ePn 02 29.00 0.6
VAM 2.56 252 eP 02 38.00 5.5X
BCK 3.00 65 ePn 02 45.00 6.2X
VLI 3.45 279 eP 02 44.00 -1.2
S.D. = 1.2 on 6 of 8 obs.

* JUN 17, 1990 04h 07m 47.62 ± 1.01s
36.295 N ± 13.9km 27.166 E ± 7.1km
DEPTH = 10.0km (geophysicist)

DODECANESE ISLANDS (369)

YER 1.23 47 iPn 08 09.80 -0.7
SMG 1.44 350 eP 08 13.70 0.1
CIN 1.50 29 eP 08 14.00 -0.5
APE 1.52 301 iPd 08 16.30 1.3
KSL 1.96 94 eP 08 20.00 -1.3
ELL 2.26 78 iPn 08 26.00 0.3
VAM 2.57 251 eP 08 31.00 1.1
KHL 2.76 42 ePn 08 36.00 3.2X
BCK 2.98 66 ePn 08 37.80 1.9
VLI 3.43 278 eP 08 40.00 -2.2
ALT 3.61 39 ePn 08 49.00 4.1X
KHC 16.22 326 eP 11 40.00 2.9X
S.D. = 1.5 on 9 of 12 obs.

* JUN 17, 1990 04h 23m 57.17 ± 0.96s
13.129 N ± 14.8km 88.769 W ± 11.7km
DEPTH = 74.5 ± 4.8 km
4.7mb (4 obs.)

EL SALVADOR (73)

Felt (II) ot San Salvador.

QZA 0.45 331 iPd 24 09.50 -0.6
VSM 0.57 58 eP 24 13.00 1.5
SJS 0.66 324 iPd 24 11.50 -0.8
SSS 0.69 323 iPd 24 11.90 -0.7
eS 24 22.50

LFU 0.70 331 iPd 24 13.10 0.4
TME 1.05 327 iPd 24 17.00 0.2
YPE 1.33 318 iPd 24 20.80 0.2
CUSS 1.38 304 eP 24 20.70 -0.5
TPX 3.82 298 (P) 25 14.50 19.7X
SCX 5.18 314 (P) 25 31.00 17.1X
TUL 23.55 346 eP 29 02.60 1.0
0.7s 2.80nm 3.8mb

ALQ 26.98 327 eP 29 35.00 1.0
RSSD 33.55 340 P 30 32.90 0.8
BW06 34.58 333 P 30 42.00 0.9
KVN 36.59 320 P 30 58.80 0.8
LRM 38.26 333 eP 31 12.80 0.7
SIV 39.84 136 iP 31 25.08 -0.2
i 31 40.00

SES 41.37 338 eP 31 38.00 0.5
FFC 42.78 349 eP 31 49.00 0.2
0.5s 6.00nm 4.7mb

EDM 44.52 339 iPc 32 02.40 -0.6
0.5s 15.00nm 5.1mb

SCH 45.02 18 eP 32 06.00 -0.9
FRB 52.50 11 eP 33 02.00 -2.5
YKA 52.63 345 eP 33 03.70 -1.8
0.7s 5.60nm 4.7mb

WRA 138.21 255 PKPc 43 16.70 0.3
0.5s 0.70nm

17d 04h

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

JUN 17, 1990 04h 51m 45.51± 0.14s
 27.398 N ± 3.7km 65.719 E ± 2.2km
 DEPTH = 14.5km (geophysical ±)
 5.9mb (74 obs.) 6.3Msz (29 obs.)
 PAKISTAN (710)

Ms 6.4 (BRK), 6.2 (PAS). At least six people injured and damage in southern Boluchistan Province. A 13-meter deep fissure was reported in the epicentral area. Felt in the Khuzdar-Surob area. Depth from broadband displacement seismograms.

FAULT PLANE SOLUTION: P-Waves
 NP1: Strike=115 Dip=80 Slip= 153
 NP2: 210 63 11
 Principal Axes:
 T P1g=26 Azm= 70
 P 11 165

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

RADIATED ENERGY
 No. of sto: 9 Focal mech. M
 Energy 3.3±0.8*10**13 Nm

MOMENT TENSOR SOLUTION
 Dep 7 No. of sto: 12
 Moment Tensor; Scale 10**18 Nm
 Mrr= 0.47 Mtt=-1.09
 Mff= 0.62 Mrt= 1.09
 Mrf=-0.50 Mtf=-0.89

Principal axes:
 T Vol= 1.74 P1g=39 Azm= 55
 N 0.06 43 276
 P -1.80 22 164

Best Double Couple: Mo=1.8*10**18
 NP1: Strike=207 Dip=45 Slip= 15
 NP2: 106 80 134

CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 19S, 49C M.W.: 4S, 8C

Centroid Location:
 Origin Time 04:51:44.8 0.5
 Lot 26.75N 0.05 Lon 65.25E 0.04
 Dep 15.0 BDY Half-duration 4.3
 Moment Tensor; Scale 10**18 Nm
 Mrr= 0.44 0.03 Mtt=-1.51 0.05
 Mff= 1.07 0.05 Mrt= 0.53 0.16
 Mrf=-0.56 0.11 Mtf=-0.92 0.04

Principal Axes:
 T Vol= 1.74 P1g=29 Azm= 69
 N 0.11 60 270
 P -1.85 9 164
 Best Double Couple: Mo=1.8*10**18
 NP1: Strike=210 Dip=63 Slip= 15
 NP2: 114 77 153

NDI 10.24 80 iPc 54 12.60 -2.4
 0.7s 578.77nm 7.1mb X
 iS 56 01.00

MAIO 10.33 331 iPd 54 15.70 -0.6
 0.9s 120.20nm 6.3mb
 eS 56 51.00

BOM 10.68 141 eP 54 19.30 -1.7
 eS 56 05.50

DSH 11.42 12 iPc 54 31.00 -0.1
 eS 57 15.00

POO 11.57 138 iPc 54 32.00 -1.2
 SHI 11.82 284 eP 54 33.00 -3.7X
 DHR 13.95 269 eP 55 04.50 -0.4
 HYB 15.46 127 eP 55 23.40 -1.4
 1.0s 240.00nm 5.4mb
 e 57 02.00
 eS 58 04.00
 e 58 26.00

GKN 16.77 84 Pc 55 38.00 -3.6X
 FRU 17.02 23 iPc 55 43.50 -1.0
 eS 58 50.00

DMN 17.20 85 Pc 55 44.00 -3.2X
 RYD 17.38 265 ePc 55 29.40 -19.7X

KER 17.40 298 eP 55 49.00 -0.5
 PKI 17.48 85 Pc 55 47.20 -3.4X
 GBA 17.55 139 Pc 55 54.30 3.0X

1.6s 321.90nm 5.2mb
 GUN 17.87 84 Pc 55 52.00 -3.6X
 MJMA 18.33 270 ePc 55 57.00 -4.0X
 TAB 19.44 308 iP+ 56 15.00 0.5
 QASM 19.86 271 eP 56 16.30 -2.7
 KOD 20.35 145 eP 56 24.00 -0.5
 eS 00 12.00

AFIF 20.56 266 iPc 56 29.00 2.6
 UQSK 20.95 271 iPc 56 30.30 -0.1
 LSA 22.45 78 iPc 56 48.10 2.2
 Z 10s 41.50um 6.2MszX

DHJN 22.67 249 ePd 56 48.00 0.0
 KMTA 22.96 251 eP 56 52.40 1.7
 ABHA 23.01 252 eP 56 55.00 3.7X
 BKR 23.12 314 iPd 56 53.00 0.9
 iS 01 08.00

SHL 23.48 88 iP 56 56.00 0.3
 iS 01 13.00
 WMQ 24.13 41 iPc 57 04.00 2.3
 5.0s *****nm 7.2mb X
 Z 13s 90.80um 6.4MszX
 E 16s 99.20um

GAZ 25.91 299 iP 57 20.60 1.9
 WAJH 26.03 274 ePc 57 21.40 1.5
 AYN 26.22 280 ePc 57 23.30 1.7
 ATA 26.42 238 eP+ 57 25.35 1.8
 TDD 26.43 239 eP+ 57 25.42 1.8
 BHL 26.61 292 P 57 26.50 1.3
 S 02 06.00

ARO 26.65 238 iPd 57 28.70 3.0X
 DSI 26.69 286 eP 57 27.00 1.1
 HQL 27.02 281 eP 57 32.00 3.0X
 PRNI 27.02 284 eP 57 30.00 1.0
 BADA 27.12 280 eP 57 31.30 1.4
 MBH 27.15 282 eP 57 27.50 -2.6
 LFK 28.50 294 iP 57 42.40 0.0
 CSS 28.63 293 eP 57 43.00 -0.5
 KAS 29.64 306 eP 57 54.00 1.4
 AKSR 29.70 270 iPd 57 57.00 3.8X
 AGAL 29.92 270 eP 58 01.00 5.8X
 BBTK 29.95 303 eP 57 55.00 -0.5
 AKRL 29.97 270 eP 58 01.00 5.4X
 AGMR 30.15 270 eP 58 03.80 6.6X
 HLW 30.21 283 eP 58 00.00 2.3
 ePP 58 44.00
 ePPP 59 03.30
 eS 03 00.00

AWKL 30.26 270 iPd 58 08.50 10.3X
 SIM 30.68 313 eP 58 01.00 -0.7
 GTA 30.70 58 iPc 58 03.80 1.6
 0.8s 300.00nm 6.2mb
 Z 18s 61.80um 6.3Msz
 E 15s 46.90um

DHLJ 30.97 285 Pc 58 27.40 20.1X
 BCK 31.15 298 eP 58 20.00 1.0
 AAE 31.33 239 iP 58 11.20 3.2X
 ELL 31.59 296 iP 58 11.00 1.0
 CHG 31.65 99 iPc 58 10.80 0.3
 1.0s 209.00nm 6.0mb
 eS 03 22.00

ALT 31.78 301 eP 58 11.00 -0.6
 KSL 31.79 295 eP 58 12.30 0.8
 KHL 32.11 299 eP 58 13.00 -1.5
 BDT 32.32 101 iPc 58 16.50 0.2
 1.1s 183.70nm 5.9mb

HRT 32.48 304 eP 58 14.00 -3.6X
 YLV 32.64 303 iP 58 18.10 -0.9
 YER 32.93 297 eP 58 24.00 2.4
 ITU 33.02 304 iPc 58 24.00 1.8
 KMI 33.20 85 Pc 58 24.50 0.2
 2.5s 930.00nm 6.3mb
 Z 18s 40.50um 6.2Msz
 N 10s 19.20um
 E 10s 8.60um

PP 58 35.50
 iS 03 45.00
 CD2 33.30 75 iPc 58 25.30 0.5
 0.8s 400.00nm 6.4mb
 LZM 33.39 65 iPc 58 27.00 1.3
 2.5s 4130.00nm 6.9mb X
 Z 16s 56.90um 6.4MszX
 E 12s 38.90um

PP 58 39.00 45kmX

EDC 33.73 302 eP 58 28.00 -0.4
 NST 33.96 103 iPc 58 31.50 0.9
 SMG 34.14 297 iPc 58 33.90 2.0
 LOE 34.64 99 iPc 58 36.50 0.0
 CFR 34.71 311 eP 58 37.00 0.2
 EZN 34.80 301 iP 58 37.20 -0.4
 OBN 34.82 331 iPc 58 38.10 0.6

Z 13s 31.00um 6.2MszX
 iS 04 11.00
 NNT 35.05 108 iPc 58 41.60 1.6
 APE 35.12 296 eP 58 41.30 0.9
 PPE 35.39 312 eP 58 42.50 -0.1
 BSI 35.58 122 ePc 58 45.80 1.3
 1.0s 327.20nm 6.2mb

RDO 35.61 303 eP 58 44.30 -0.2
 CLI 35.72 313 ePc 58 46.50 1.1
 IAS 35.75 314 eP 58 45.00 -0.6
 ISR 35.79 310 ePc 58 48.50 2.4
 VRI 35.88 311 ePc 58 45.50 -1.3
 BUC 35.90 309 iP 58 45.00 -1.9
 BUC1 35.93 309 ePc 58 50.00 2.8X
 VAM 36.12 293 iPc 58 49.00 0.1
 GYA 36.40 82 iPc 58 51.40 -0.1
 5.0s 3100.00nm 6.4mb X
 N 16s 46.60um
 E 16s 23.80um

PP 00 13.00
 S 04 33.00
 ATH 36.62 298 eP 58 55.20 2.1
 CMP 36.85 310 ePc 58 56.00 1.0
 NEO 37.12 300 eP 58 59.50 2.2
 VLI 37.17 295 eP 58 58.00 0.3
 DRA 37.24 309 eP 59 00.00 1.8
 XAN 37.51 69 iPc 59 01.50 0.8
 7.0s 4200.00nm 6.3mb X
 N 14s 24.70um
 E 12s 20.50um

S 04 52.00
 VAY 37.85 303 iP 59 03.00 -0.3
 IRK 37.99 39 ePc 59 06.00 1.6
 eS 05 04.00
 ITM 38.00 296 eP 59 05.80 1.1
 GZR 38.43 309 ePd 59 13.00 4.7X
 BTO 38.63 58 iPc 59 12.00 1.9
 N 13s 30.50um

pP 59 16.00 14kmX
 PP 00 41.00
 S 05 07.00
 SS 05 16.00
 SNG 38.70 115 iPc 59 11.40 0.6
 2.0s 941.18nm 6.2mb
 SKO 38.77 304 iP 59 10.50 -0.6
 Z 21s 18.44um 5.9Msz
 N 20s 20.92um
 E 22s 27.96um

i 59 16.60 21kmX
 iPP 00 48.00
 i 01 56.00
 iS 05 10.00
 i 05 43.00
 iSSS 08 41.00
 LR 22 17.00

KBN 39.09 302 eP 59 13.00 -0.7
 VLS 39.10 298 eP 59 15.50 1.6
 OHR 39.15 302 iP 59 13.80 -0.5
 1.3s 82.00nm 5.3mb
 i 59 21.30 25kmX
 i 59 27.70

BZS 39.27 309 eP 59 15.50 0.3
 UZH 39.56 314 iPc 59 19.00 1.4
 iS 05 24.00
 TIM 39.57 310 iPd 59 24.00 6.3X
 SRN 39.65 300 iP 59 18.50 0.1
 KEK 39.79 300 eP 59 13.00 -6.6X
 HHC 39.82 58 iPc 59 22.60 2.6
 6.0s 5300.00nm 6.4mb X
 Z 20s 43.90um 6.3Msz
 N 13s 23.10um
 E 12s 24.60um

S 05 20.00
 NAI 39.83 229 iPd 59 23.90 3.5X
 3.0s 1700.00nm 6.2mb
 TIR 39.87 303 eP 59 20.50 0.2
 BEO 39.92 308 eP 59 25.00 4.4X
 LACI 40.02 303 eP 59 20.00 -1.4
 PSI 40.14 122 ePc 59 22.40 -0.3
 1.0s 196.70nm 5.8mb

Table with columns: Station Name, Time, Depth, and other parameters. Rows include WNY, RSNY, EDM, SES, RSCP, GLD, GOL, KVN, LNO, TUL, HON, MEO, CLC.

Table with columns: Station Name, Time, Depth, and other parameters. Rows include SPA, ANMO, ALO, GSC.

Table with columns: Station Name, Time, Depth, and other parameters. Rows include BAO, SBB, GLA.

Table with columns: Station Name, Time, Depth, and other parameters. Rows include SIV, UPA, IIJ, PPM, MRX, CCH, ZOBO.

Table with columns: Station Name, Time, Depth, and other parameters. Rows include LPB, ARE, ANT, PEL, LNV, TVO.

Table with columns: Station Name, Time, Depth, and other parameters. Rows include PMO, TPT, VAH, RUV.

Table with columns: Station Name, Time, Depth, and other parameters. Rows include YER, CIN, SMG, KSL, ELL, KHL, VAM, BCK, ALT.

Summary table for JUN 17, 1990 05h 00m 48.60 ± 1.93s

36.279 N ± 20.0km 27.115 E ± 10.7km

DEPTH = 10.0km (geophysicist)

Table with columns: Station Name, Time, Depth, and other parameters. Rows include YER, SMG, APE, CIN, KSL, ELL, KHL, BCK.

JUN 17, 1990 05h 42m 47.77 ± 1.08s

DEPTH = 33.0km (normal)

Table with columns: Station Name, Time, Depth, and other parameters. Rows include YER, SMG, CIN, APE, KSL, ELL, KHL, VAM, BCK, ALT.

JUN 17, 1990 06h 08m 05.40s

DEPTH = 15.0km

SOUTHERN CALIFORNIA (43) <PAS-P>. ML 3.7 (PAS). Felt (IV) at Moreno Valley and (III) at Cedarpines Park, Chino, Corona, Lake Arrowhead, Lomo Lindo, Riverside, Rubidoux, Running Springs and San Bernardino. Also felt at Hemet.

Table with columns: Station Name, Time, Depth, and other parameters. Rows include RVR, PEC, PCF, VPD, PEM, MWC, PLM, PAS.

Table with columns: Station Name, Time, Depth, and other parameters. Rows include SBB, LCV, PVPS, SCY, CPE, GSC, HAY, BAR, CLC, CBX.

Table with columns: Station Name, Time, Depth, and other parameters. Rows include ABL, ENX, GLA, CPBX, PBX, RDX.

Table with columns: Station Name, Time, Depth, and other parameters. Rows include BCH, BLP, EMX, PKEM, ECBX, TNP, CMB, KVN, ALQ.

33 obs. associated

JUN 17, 1990 06h 17m 01.93 ± 1.54s

Table with columns: Station Name, Time, Depth, and other parameters. Rows include YER, SMG, APE, KSL, ELL.

JUN 17, 1990 06h 39m 59.61 ± 1.29s

DEPTH = 293.2 ± 32.2 km

Table with columns: Station Name, Time, Depth, and other parameters. Rows include TRT, MTN, NANU, MEKA, WARB, WB5, WRA, COOL.

JUN 17, 1990 07h 50m 20.54 ± 1.05s

DEPTH = 33.0km (normal)

Table with columns: Station Name, Time, Depth, and other parameters. Rows include MNI, MTN, WB5, WRA, MRWA, KLB, BJI, MUN, STK.

JUN 17, 1990 08h 16m 05.83s

DEPTH = 47.0km

Table with columns: Station Name, Time, Depth, and other parameters. Rows include SUA, PWA, SKT, PMS, PLRM, CGLM, CUT, NCG, GHO, CRP, SPU, SML, SLKM, HUR, SCM.

BSS 0.67 299 P 08 01.20 0.4
 eSg 08 12.00
 ORI 0.78 121 P 08 02.50 -0.3
 eSg 08 13.50
 TDS 1.00 144 P 08 07.00 0.5
 S.D. = 0.6 on 5 of 5 obs.

JUN 17, 1990 13h 44m 57.07 ± 0.36s
 39.191 N ± 3.4km 23.605 E ± 2.6km
 DEPTH = 24.8 ± 3.7 km
 4.0mb (14 obs.)
 AEGEAN SEA (365)
 ML 4.2 (ATH).

NEO 0.32 291 iPgd 45 03.30 -1.1
 ATH 1.22 176 ePg 45 19.40 0.8
 EZN 2.20 72 iPn 45 32.20 -0.5
 VAY 2.27 340 iPn 45 34.00 0.3
 i 45 36.40
 i 45 40.40
 iSg 46 03.40
 iSg 46 07.80
 Lg 46 12.20
 MMB 2.40 2 iPc 45 36.00 0.5
 ITM 2.40 214 ePn 45 36.00 0.4
 RDO 2.45 37 ePn 45 35.50 -0.8
 VLI 2.52 192 ePn 45 37.40 0.0
 VLS 2.57 248 ePn 45 39.80 1.8
 KBN 2.58 305 iPnd 45 39.50 1.4
 APE 2.61 144 ePn 45 38.00 -0.6
 eSb 46 18.00
 RZN 2.63 18 iPc 45 40.00 0.9
 KDZ 2.82 29 iPc 45 41.00 -0.5
 SRN 2.87 285 iPn 45 45.30 3.1X
 OHR 2.88 313 iPn 45 43.70 1.3
 iSg 46 31.00
 Lg 46 33.30
 SMG 2.94 119 ePn 45 43.00 -0.1
 KEK 2.99 281 ePn 45 46.00 2.1
 PLD 3.03 16 iPc 45 47.00 2.6
 DIM 3.21 27 ePd 45 46.00 -1.0
 SKO 3.23 330 iPn 45 47.40 0.1

E 10s 2.69um
 i 46 03.00
 i 46 31.00
 i 46 40.00
 Lg 47 08.00
 PGB 3.38 7 iPc 45 49.00 -0.5
 VTS 3.41 355 iPc 45 51.00 1.0
 EDC 3.48 69 ePn 45 50.70 -0.2
 TIR 3.58 308 ePn 45 56.00 3.7X
 VAM 3.81 173 ePn 45 56.50 1.0
 JMB 3.98 34 eP 46 12.00 14.1X
 DMK 4.11 49 iPn 45 59.10 -0.8
 SDA 4.21 313 ePn 46 05.20 4.0X
 YER 4.22 118 ePn 46 01.50 0.0
 PVL 4.23 17 iPc 46 00.00 -1.4
 PVY 4.37 322 ePn 46 05.00 1.3
 eSn 46 54.00
 LCI 4.50 286 P 46 04.50 -0.9
 TTG 4.62 316 ePn 46 08.30 1.3
 eSn 47 01.50
 IVA 4.62 324 ePn 46 08.00 0.8
 YLV 4.65 71 iPn 46 06.70 -0.8
 IZI 4.66 74 ePn 46 07.00 -0.8
 KHL 4.71 99 ePn 46 09.80 1.4
 HRT 4.93 69 ePn 46 10.70 -0.8
 ALT 5.06 89 ePn 46 13.00 -0.4
 BRT 5.19 291 P 46 15.50 0.3
 GPA 5.28 76 ePn 46 15.70 -0.8
 ELL 5.55 114 ePn 46 23.00 2.7
 ORI 5.59 281 P 46 21.40 0.6
 TDS 5.65 277 P 46 23.00 1.4
 PSN 5.65 36 eP 46 20.00 -1.6
 BCK 5.76 105 iP 46 24.40 1.2
 SOI 6.02 262 P 46 25.50 -1.2
 BEO 6.09 338 ePn 46 36.50 8.7X
 GZR 6.23 355 ePd 46 31.50 1.7
 MGR 6.28 281 P 46 31.30 0.7
 ISR 6.33 19 eP 46 33.00 1.8
 ATN 6.45 263 P 46 31.20 -1.8
 SGO 6.53 285 P 46 34.00 0.0
 MLR 6.53 15 iPc 46 33.50 -0.6
 BZS 6.59 348 eP 46 32.50 -2.3
 HVAR 6.71 309 i(Pn) 46 34.70 -1.8
 BSS 6.94 286 Pd 46 40.20 0.4
 VRI 7.06 18 ePc 46 47.00 5.6X

BTK 7.11 82 eP 46 52.00 9.7X
 e 47 18.00
 MEU 7.15 256 P 46 40.10 -2.7
 eSn 47 51.60
 DUI 7.40 292 P 46 46.10 -0.2
 eSn 47 58.50
 SDI 7.88 292 P 46 53.40 0.4
 eSn 48 14.50
 USI 8.14 270 P 46 54.60 -2.0
 AZI 8.23 293 P 46 58.00 0.3
 AQU 8.36 295 P 46 58.80 -0.9
 ZAG 8.69 322 eP 47 04.60 0.5
 PTJ 8.76 322 eP 47 03.20 -2.0
 VBY 8.83 318 e(Pn) 47 14.30 8.2X
 e(Sn) 48 40.20

ARV 9.10 302 P 47 08.00 -1.9
 CEY 9.42 317 e(P) 47 15.00 0.8
 e(S) 48 54.50
 SRO 9.43 338 eP 47 16.60 2.2
 LJU 9.57 319 e(P) 47 15.20 -1.0
 e(S) 49 02.00
 CRE 9.81 301 P 47 20.00 0.2
 VOY 9.89 317 eP 47 19.30 -1.5
 eS 49 05.30
 ZST 10.15 335 eP 47 26.50 2.2
 * 47 30.60
 SPC 10.28 348 eP 47 25.70 -0.5
 CTI 11.15 312 P 47 37.50 -0.6
 KRA 11.17 348 eP 47 39.90 1.7
 KHC 12.26 327 P 47 53.00 0.1
 PRU 12.57 332 eP 48 02.20 5.2X
 LPG 13.96 302 eP 48 23.40 7.7X
 0.8s 13.45nm 4.7mb
 LPL 13.98 302 eP 48 23.60 7.7X
 0.8s 10.75nm 4.6mb
 SMF 16.26 304 eP 48 45.80 0.5
 1.0s 12.00nm 4.0mb
 LBF 16.29 305 eP 48 44.90 -0.8
 0.8s 5.35nm 3.7mb
 LOR 16.47 306 eP 48 47.00 -1.0
 0.8s 5.35nm 3.7mb
 SSF 16.62 305 eP 48 48.80 -1.0
 0.8s 6.70nm 3.8mb
 AVF 16.62 304 eP 48 49.70 -0.2
 0.8s 13.45nm 4.1mb
 BGF 16.87 303 eP 48 53.00 -0.1
 0.9s 21.30nm 4.3mb
 MAF 16.96 301 eP 48 54.40 0.3
 0.8s 9.40nm 4.0mb
 TOL 21.31 281 eP 49 44.00 -0.1
 HFS 21.88 347 eP 49 50.20 0.6
 0.5s 0.90nm 3.5mb
 Z 15s 0.10um 3.3mszx
 LR 58 01.00
 NAO 23.08 344 P 50 03.60 2.2
 0.7s 1.60nm 3.7mb

IFR 23.77 265 iPd 50 11.00 2.4
 EKA 24.08 321 P 50 15.00 3.8X
 1.0s 9.00nm 4.3mb
 BCAO 34.90 189 iPd 51 48.50 -0.3
 0.9s 14.00nm 4.9mb
 KIC 41.49 225 (P) 52 47.60 3.8X
 YKA 73.24 341 eP 56 27.80 0.3
 0.7s 0.80nm 3.9mb
 S.D. = 1.2 on 84 of 97 obs.

JUN 17, 1990 13h 52m 40.77 ± 0.82s
 39.212 N ± 6.3km 23.687 E ± 9.3km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)
 ML 3.3 (ATH).

NEO 0.37 285 iPbd 52 47.50 -0.9
 ATH 1.24 179 ePn 53 04.80 1.0
 VAY 2.27 338 ePn 53 20.00 1.1
 MMB 2.37 1 iPc 53 21.00 0.6
 RDO 2.40 36 ePn 53 20.00 -0.6
 ITM 2.46 215 ePn 53 19.80 -1.7
 VLI 2.56 194 ePn 53 22.50 -0.5
 RZN 2.59 17 iPc 53 24.00 0.3
 VLS 2.63 248 ePn 53 25.00 0.9
 OHR 2.91 312 ePn 53 29.00 0.9
 KEK 3.05 281 ePb 53 31.50 1.6
 SKO 3.24 329 ePn 53 30.00 -2.7
 S.D. = 1.4 on 12 of 12 obs.

% JUN 17, 1990 14h 01m 54.33 ± 1.27s

15.990 N ± 7.5km 60.839 W ± 13.5km
 DEPTH = 31.0 ± 7.9 km
 LEEWARD ISLANDS (92)
 ML 2.7 (FDF).

SFG 0.43 307 eP 02 03.35 -0.4
 S 20 10.00
 MGG 0.47 261 eP 02 04.63 0.4
 S 02 18.20
 SEG 0.76 303 eP 02 08.69 -0.1
 S 02 18.20
 BBL 0.77 233 eP 02 08.53 -0.4
 S 02 18.00
 PAG 0.81 273 eP 02 09.70 0.2
 S 02 20.50
 CRM 1.23 183 eP 02 15.51 0.0
 S 02 30.70
 FDF 1.28 194 iPd 02 16.18 -0.1
 S 02 31.70
 MVM 1.43 182 eP 02 18.52 0.2
 S 02 36.50
 BPA 1.43 317 eP 02 18.69 0.3
 S 02 36.00
 BIM 1.48 189 eP 02 19.12 0.0
 S 02 37.60
 S.D. = 0.3 on 10 of 10 obs.

? JUN 17, 1990 14h 27m 42.14 ± 15.99s
 36.530 S ± 137.km 69.943 W ± 21.9km
 DEPTH = 140.0km (geophysicist)
 MENDOZA PROVINCE, ARGENTINA (139)

CHCH 2.66 347 iP 28 26.40 1.1
 iS 28 57.10
 LNV 2.84 335 iPd 28 27.50 0.0
 iS 28 57.50
 PCH 2.94 351 iPc 28 30.00 1.0
 iS 29 02.50
 FCH 3.21 355 eP 28 33.50 0.8
 iS 29 09.00
 LCCH 3.33 336 iPc 28 33.10 -0.9
 iS 29 08.10
 PEL 3.43 350 iPd 28 35.10 -0.3
 iS 29 11.10
 ROCH 3.66 346 eP 28 38.00 -0.6
 JACH 3.88 352 iPd 28 41.00 -0.3
 i 29 20.50
 RTCV 4.80 14 ePc 28 53.70 0.0
 S 29 44.70
 RTBS 4.87 5 ePd 28 55.80 1.3
 S 29 46.80
 CFA 5.11 17 ePc 28 58.00 0.2
 RTCB 5.12 11 eP 28 57.70 -0.3
 RTLL 5.33 14 iPc 29 00.00 -0.8
 RTRS 6.36 4 ePd 29 13.40 -1.2
 S.D. = 0.8 on 14 of 14 obs.

? JUN 17, 1990 15h 27m 32.09 ± 15.61s
 35.311 N ± 146.km 24.473 E ± 35.5km
 DEPTH = 10.0km (geophysicist)
 CRETE (370)

VAM 0.24 293 ePg 27 36.50 -0.8
 VLI 1.88 319 ePb 28 04.00 -0.5
 APE 1.95 26 ePb 28 05.50 -0.1
 ITM 2.78 313 ePb 28 18.30 0.9
 S.D. = 1.2 on 4 of 4 obs.

JUN 17, 1990 16h 25m 20.91 ± 0.79s
 41.801 N ± 9.3km 20.968 E ± 6.5km
 DEPTH = 10.0km (geophysicist)
 ALBANIA (391)
 ML 2.5 (SKO), 2.2 (TTG). Felt
 (III) at Gostivar, Yugoslavio.

SKO 0.39 64 ePg 25 29.00 0.1
 iSg 25 34.90
 OHR 0.70 191 iPgd 25 34.00 -0.8
 iSg 25 45.10
 Lg 25 46.20
 PVY 1.08 317 ePg 25 39.50 -1.9
 eSg 25 54.00
 ULC 1.29 278 ePg 25 45.00 0.1
 eSg 26 01.50
 VAY 1.29 111 ePn 25 45.20 0.3
 TTG 1.42 297 ePg 25 47.20 0.5
 eSg 26 05.90

17d 16h

HCY 1.95 290 ePn 25 56.00 1.7
 eSn 26 22.70
 NED 3.03 145 ePn 26 18.50 8.7X
 VLS 3.63 185 ePb 26 22.00 3.6X
 S.D. = 1.4 on 7 of 9 obs.

? JUN 17, 1990 16h 25m 50.31± 1.17s
 37.487 N ± 10.9km 22.773 E ± 9.8km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN GREECE (368)
 ML 2.8 (ATH).

ITM 0.74 246 ePn 26 04.80 -0.1
 VLI 0.78 170 ePn 26 06.00 0.5
 eSn 26 18.00
 ATH 0.89 57 ePn 26 07.50 0.1
 eSn 26 20.30
 VAM 2.37 151 ePn 26 29.30 -0.6
 eSn 26 58.50
 S.D. = 0.8 on 4 of 4 obs.

JUN 17, 1990 16h 34m 50.06± 0.70s
 41.797 N ± 8.3km 20.965 E ± 5.8km
 DEPTH = 10.0km (geophysicist)
 ALBANIA (391)
 ML 2.5 (SKO), 2.5 (TTG). Felt
 (III) at Gostivor, Yugoslavio.

SKO 0.40 64 ePg 34 58.20 0.0
 iSg 35 04.10
 OHR 0.70 190 iPg 35 03.20 -0.7
 iSg 35 14.40
 Lg 35 15.50
 PVY 1.09 318 ePg 35 08.70 -1.9
 eSg 35 24.50
 ULC 1.29 278 ePg 35 14.00 0.0
 eSg 35 30.20
 VAY 1.30 111 ePn 35 14.30 0.3
 TTG 1.42 297 ePg 35 16.10 0.3
 eSg 35 35.00
 BDV 1.66 288 ePn 35 20.50 1.1
 eSn 35 44.50
 NKY 1.78 306 ePn 35 22.00 0.9
 eSn 35 47.00
 S.D. = 1.1 on 8 of 8 obs.

JUN 17, 1990 16h 46m 04.21± 0.34s
 38.477 S ± 8.9km 16.454 W ± 6.8km
 DEPTH = 10.0km (geophysicist)
 5.3mb (29 obs.) 4.6Msz (2 obs.)
 SOUTH ATLANTIC RIDGE (410)

BAO 35.86 301 eP 53 05.00 -1.3
 BUL 42.86 78 iPc 54 01.00 -3.5X
 i 54 06.10
 PCH 43.40 260 eP 54 10.00 1.0
 SAN 43.63 259 eP 54 10.50 0.0
 PEL 43.77 260 iPc 54 11.50 -0.2
 1.1s 31.65nm 5.0mb
 LNV 44.02 258 iP 54 12.60 -0.9
 SIV 45.01 287 P 54 21.70 -0.1
 KRI 45.59 75 iPd 54 24.00 -2.5
 CCH 48.02 282 P 54 45.80 -0.1
 LKO 48.84 14 P 54 48.84 -2.9
 LPB 50.03 281 P 54 55.00 -6.5X
 ZOBO 50.20 281 P 55 02.00 -1.0
 1.6s 25.06nm 4.9mb
 Z 22s 0.37um 4.3Msz

SPA 51.71 180 iPc 55 13.30 -0.2
 1.8s 129.63nm 5.6mb
 Z 19s 1.05um 4.9Msz
 ARE 52.69 279 eP 55 21.00 -0.6
 BCAA 53.59 45 iPd 55 24.30 -3.5X
 1.6s 130.00nm 5.7mb
 LWI 54.82 60 ePc 55 35.10 -2.0
 SBA 63.92 181 e(P) 56 39.70 0.7
 TIO 69.58 8 iPd 57 16.00 0.6
 i 57 23.50
 IFR 72.40 10 eP 57 25.00 -7.4X
 TOL 78.81 10 eP 58 09.00 0.5
 HLW 81.31 41 (P) 58 22.80 0.8
 SOI 81.84 25 P 58 24.80 0.2
 EPF 82.55 12 eP 58 28.30 0.0
 1.4s 34.85nm 5.3mb
 TDS 83.37 25 P 58 32.50 0.0
 ORI 83.77 25 P 58 35.00 0.4

SGO 83.85 24 P 58 35.00 0.1
 RMP 84.21 21 P 58 38.10 1.4
 LPO 84.30 13 eP 58 37.30 0.2
 1.2s 17.85nm 5.2mb
 SDI 84.44 22 P 58 38.00 0.1
 LFF 84.47 12 eP 58 38.50 0.6
 1.2s 17.85nm 5.2mb
 AZI 84.59 22 P 58 39.00 0.5
 DUI 84.59 23 P 58 39.00 0.3
 CAF 84.69 13 eP 58 39.00 -0.1
 1.4s 21.80nm 5.2mb
 RJF 84.96 13 eP 58 40.60 0.2
 1.2s 20.85nm 5.2mb

PII 85.39 19 P 58 41.00 -1.5
 BNI 85.72 16 P 58 45.00 0.6
 LSF 85.88 12 eP 58 45.40 0.4
 1.6s 55.95nm 5.5mb
 MAF 86.03 13 eP 58 46.20 0.5
 1.5s 20.90nm 5.1mb
 TCF 86.03 13 eP 58 46.30 0.5
 1.6s 34.20nm 5.3mb
 LPG 86.16 16 eP 58 47.00 0.2
 1.2s 11.90nm 4.9mb
 LPL 86.18 16 eP 58 46.80 0.0
 1.2s 11.90nm 4.9mb

BGF 86.40 13 eP 58 47.90 0.4
 1.4s 19.60nm 5.1mb
 SMF 86.67 14 eP 58 49.10 0.2
 1.3s 21.65nm 5.2mb
 AVF 86.72 13 eP 58 49.30 0.2
 1.4s 34.85nm 5.4mb
 SSF 87.01 14 eP 58 50.60 0.1
 1.2s 14.90nm 5.1mb
 LBF 87.02 14 eP 58 50.40 -0.2
 1.4s 19.60nm 5.1mb

MDI 87.11 18 P 58 50.00 -0.9
 SKO 87.19 27 eP 58 50.50 -1.0
 LPF 87.22 10 eP 58 52.00 0.6
 1.4s 43.55nm 5.5mb
 LOR 87.27 14 eP 58 51.90 0.1
 1.4s 13.05nm 5.0mb
 GRR 87.59 10 eP 58 53.30 0.1
 1.4s 26.15nm 5.3mb
 CTI 87.85 19 P 58 55.00 0.3
 LDF 87.90 11 eP 58 55.10 0.4
 1.4s 34.85nm 5.5mb
 FLN 88.01 10 eP 58 55.40 0.2
 1.4s 47.90nm 5.6mb

CEY 88.31 21 e(PKP) 58 57.00 0.2
 BSF 88.39 15 eP 58 57.10 -0.2
 VOY 88.43 21 e(PKP) 58 57.30 -0.2
 LJU 88.62 21 e(PKP) 58 57.50 -0.8
 FVI 88.65 20 P 58 58.60 0.3
 CDF 89.04 16 eP 59 00.50 0.2
 1.6s 37.30nm 5.4mb
 DOU 90.13 13 Pc 59 06.20 1.0
 SNF 90.47 13 P 59 07.80 1.0
 MEM 90.88 14 P 59 05.70 -2.9
 ENN 91.02 14 eP 59 10.00 0.7
 1.4s 36.00nm 5.5mb
 GRF 91.13 18 eP 59 10.40 0.5
 1.6s 70.00nm 5.7mb

KHC 91.20 19 P 59 10.30 0.1
 ZST 91.31 22 eP 59 11.30 0.6
 e 24 22.60
 SRO 91.33 23 iP 59 11.00 0.2
 PRU 92.23 19 eP 59 15.50 0.6
 e 59 22.00
 CLL 93.06 18 iPc 59 18.90 0.2
 1.6s 18.00nm 5.2mb
 SPC 93.14 23 eP 59 19.60 0.2
 KSP 93.48 20 eP 59 21.50 0.9
 SUF 106.48 19 iPdiff00 22.50 3.5X
 0.8s 5.70nm 5.7mb

YKA 126.90 325 ePKP 05 15.10 6.2X
 1.0s 1.10nm
 FBA 141.40 329 (PKP) 05 27.60 -8.5X
 BJI 143.62 72 ePKP 05 41.00 0.3
 S.D. = 0.9 on 69 of 76 obs.

* JUN 17, 1990 16h 47m 48.45± 1.59s
 10.625 N ± 7.5km 63.244 W ± 19.2km
 DEPTH = 25.8 ± 9.4 km
 3.7mb (1 obs.)
 NEAR COAST OF VENEZUELA (97)

TCE 1.47 87 eP 48 13.90 0.5
 eS 48 33.76
 TPP 1.79 100 eP 48 18.73 0.6
 eS 48 51.37
 TRN 1.81 89 eP 48 16.85 -1.5
 eS 48 43.98
 TBH 2.14 94 eP 48 23.96 0.7
 eS 48 56.78
 GRW 2.18 45 eP 48 24.25 0.5
 eS 48 51.44
 SVB 3.27 36 eP 48 39.60 0.3
 SLB 3.84 34 eP 48 47.53 0.2
 eS 49 34.35

BIM 4.41 29 eP 48 55.55 0.1
 MVM 4.53 30 eP 48 56.17 -1.0
 FDF 4.57 26 eP 48 57.15 -0.6
 SIV 26.53 175 P 53 25.60 -0.6
 YKA 63.43 336 eP 58 18.80 0.8
 0.9s 0.60nm 3.7mb
 S.D. = 0.9 on 12 of 12 obs.

JUN 17, 1990 17h 17m 43.16± 0.19s
 27.302 N ± 4.8km 65.548 E ± 2.8km
 DEPTH = 15.3km (10 depth phases)
 5.3mb (68 obs.) 5.2Msz (12 obs.)
 PAKISTAN (710)

CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 24C
 Centroid Location:
 Origin Time 17:17:49.3 0.4
 Lot 27.34N FIX; Lon 65.62E FIX
 Dep 15.0 FIX Half-duration 2.2
 Moment Tensor: Scale 10**17 Nm
 Mrr= 0.37 0.07 Mtt=-1.87 0.10
 Mff= 1.50 0.10 Mrt=-0.62 0.25
 Mrf=-1.24 0.29 Mtf=-1.25 0.08
 Principal Axes:
 T Val= 2.43 Plg=28 Azm= 78
 N 0.19 55 217
 P -2.62 19 337
 Best Double Couple: Mo=2.5*10**17
 NP1: Strike=115 Dip=56 Slip= 173
 NP2: 209 85 34

QUE 3.13 23 iPd 18 34.80 1.8
 MAIO 10.34 332 iPd 20 13.20 -0.8
 0.8s 24.89nm 5.6mb
 eS 22 55.00
 NDI 10.41 80 iPc 20 11.00 -3.8X
 0.6s 180.00nm 6.6mb X
 BOM 10.71 140 eP 20 14.60 -4.3X
 eS 22 01.40
 POO 11.60 137 iPc 20 30.00 -1.2
 BRF 13.44 268 ePn 20 53.10 -2.6
 eSn 23 24.50

KSH 14.91 33 eP 21 13.00 -2.1
 S 23 58.00
 HYB 15.53 127 eP 21 21.00 -2.1
 1.0s 180.00nm 5.3mb
 e 24 32.00
 GKN 16.93 83 P 21 36.00 -5.1X
 RYD 17.22 266 ePd 21 42.00 -2.7
 KER 17.32 298 eP 21 46.00 0.1
 DMN 17.36 84 P 21 41.90 -4.8X
 GBA 17.58 138 Pd 21 51.30 2.1
 6.1s 45.80nm 3.8mb X

PKI 17.64 85 P 21 45.50 -4.7X
 GUN 18.03 83 P 21 50.60 -4.5X
 MJMA 18.18 270 ePc 21 54.80 -1.8
 TAB 19.38 308 eP 22 11.00 -0.4
 QASM 19.71 272 ePd 22 14.30 -0.7
 KOD 20.36 144 eP 22 23.40 1.2
 eS 26 08.00
 AFIF 20.40 266 ePc 22 26.00 3.7X
 UQSK 20.80 271 eP 22 28.00 1.6
 DHJN 22.50 249 ePd 22 45.50 1.7
 LSA 22.61 78 P 22 46.50 1.4

N 10s 2.48um
 E 10s 1.56um
 KMTA 22.78 251 eP 22 48.70 2.2
 ABHA 22.84 252 eP 22 58.80 11.7X
 SHL 23.63 88 iP 22 54.00 -0.7
 iS 27 04.00
 WMO 24.30 42 iPc 23 02.30 1.3
 2.0s 2800.00nm 6.5mb X
 Z 16s 14.60um 5.6Msz X

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

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

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

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

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

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

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

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

Hypocenter Symbols

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

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

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

References

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- 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.

Table with 5 columns: Station Name, Time, Azimuth, Dip, Magnitude. Rows include MNDI, RAB, OIS, MTN, WB5, WRA, RMO, DZM, MNI, NANU, KLB, MAT, CHG, DMN, GKN, GBA.

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

? JUN 17, 1990 20h 43m 35.98 ± 2.44s
39.432 N ± 25.2km 27.743 E ± 9.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

Table with 5 columns: Station Name, Time, Azimuth, Dip, Magnitude. Rows include EDC, EZN, IZI, YLV.

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

JUN 17, 1990 21h 15m 26.06 ± 0.20s
3.879 N ± 3.6km 125.690 E ± 5.0km
DEPTH = 167.7km (4 depth phases)
5.3mb (35 obs.)

TALAUD ISLANDS (263)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 15S, 25C

Centroid Location:

Origin Time 21:15:27.9 0.5

Lat 4.10N 0.06 Lon 125.65E 0.05

Dep 144.3 1.7 Half-duration 2.2

Moment Tensor; Scale 10**17 Nm

Mrr=-0.67 0.07 Mtt= 0.06 0.09

Mff= 0.61 0.10 Mrl= 0.56 0.07

Mrf= 1.90 0.08 Mlf=-0.81 0.10

Principal Axes:

T Val= 2.04 Plg=33 Azm=257

N 0.35 24 3

P -2.38 48 122

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

NP1: Strike=295 Dip=25 Slip=-160

NP2: 187 82 -66

Large table of station data with 5 columns: Station Name, Time, Azimuth, Dip, Magnitude. Rows include MNI, DAV, AAI, BKB2, MKS, KUPT, TRT, MTN, KNA, GUMO, PJG, GUA, OIZ, QZH, KGM, KLM, IPM.

Table with 5 columns: Station Name, Time, Azimuth, Dip, Magnitude. Rows include WB5, WRA, KDB, LOE, SSE, OIS, NANU, WHN, NJ2, GYA, BDT, CHG, CHTO, KMI, MEKA, CTA, TIA, IIDJ, XAN, CD2, MRWA, MTMJ, MAT, COOL, BAL, TIY, KLB, YAMJ, BJI.

Table with 5 columns: Station Name, Time, Azimuth, Dip, Magnitude. Rows include TIA, IIDJ, XAN, CD2, MRWA, MTMJ, MAT, COOL, BAL, TIY, KLB, YAMJ, BJI.

Table with 5 columns: Station Name, Time, Azimuth, Dip, Magnitude. Rows include RMQ, SNY, LZHZ, STK, HHC, SHL, BTO, CN2, ADE, BRS, MDJ, LSA, COO.

Table with 5 columns: Station Name, Time, Azimuth, Dip, Magnitude. Rows include LZHZ, STK, HHC, SHL, BTO, CN2, ADE, BRS, MDJ, LSA, COO.

Table with 5 columns: Station Name, Time, Azimuth, Dip, Magnitude. Rows include GTA, Z, E, BWA, BFD, CAN, GUN, CNB, PKI, TOO, DMN, GKN, DZM, HYB, KOD, GBA, WMO.

Table with 5 columns: Station Name, Time, Azimuth, Dip, Magnitude. Rows include WMO, NDI, KSH, QUE, SNZO, H8Z, MAIO, TAB, TTA, KDC, IMA, MAW, PMR, FBA, KEV, SOD, INK, SUF, VAY, HFS, BUL, NAO, KSP, YKA, CLL, KIC, LKO, TIC, LIC, LNV, CHCH, PCH, PEL.

Table with 5 columns: Station Name, Time, Azimuth, Dip, Magnitude. Rows include NDI, KSH, QUE, SNZO, H8Z, MAIO, TAB, TTA, KDC, IMA, MAW, PMR, FBA, KEV, SOD, INK, SUF, VAY, HFS, BUL, NAO, KSP, YKA, CLL, KIC, LKO, TIC, LIC, LNV, CHCH, PCH, PEL.

Table with 5 columns: Station Name, Time, Azimuth, Dip, Magnitude. Rows include KIC, LKO, TIC, LIC, LNV, CHCH, PCH, PEL.

17d 21h

FCH 147.12 155 ePKP 34 54.00 4.7X
 UPA 151.80 63 ePKPd 35 03.80 7.3X
 ZOBO 161.67 133 PKP 35 13.50 4.2X
 1.2s 6.76nm
 Z 22s 0.29um 6.6msz
 LR 25 36.00
 SIV 166.25 152 ePKP 35 15.00 2.2
 i 36 16.70
 S.D. = 1.2 on 96 of 111 obs.

& JUN 17, 1990 22h 32m 27.70s
 40.273 N 124.683 W
 DEPTH = 5.0km
 NEAR COAST OF NORTHERN CALIF. (35)
 <BRK>. ML 3.2 (BRK).

FHC 0.75 45 iPd 32 42.40 -0.3
 iS 32 52.70
 WDC 1.66 79 iPc 32 55.20 -2.4
 iS 33 12.00
 LTCM 1.96 91 eP 33 00.00 -1.9
 MIN 2.35 87 eP 33 05.10 -2.7
 LBFM 2.38 62 eP 33 06.50 -1.7
 ORV 2.55 105 ePc 33 07.90 -2.5
 eS 33 36.70
 PCC 3.30 146 e(P) 33 18.90 -2.2
 SAO 4.33 143 eP 33 32.70 -3.0
 KVN 5.22 101 eP 33 45.80 -2.8
 9 obs. associated

% JUN 17, 1990 22h 38m 08.34±0.79s
 40.185 N ±10.9km 28.656 E ± 5.1km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

KCT 0.24 286 iPg 38 13.90 0.5
 iSg 38 15.60
 EDC 0.63 285 iPg 38 20.40 -0.6
 eSg 38 31.40
 IZI 0.64 76 ePg 38 20.90 -0.4
 eSg 38 33.40
 YLV 0.67 55 iPg 38 21.40 -0.3
 iSg 38 33.90
 HRT 1.00 50 ePn 38 27.90 0.6
 ALT 1.59 135 ePn 38 36.90 0.2
 S.D. = 0.6 on 6 of 6 obs.

& JUN 17, 1990 23h 10m 25.57s
 61.250 N 150.651 W
 DEPTH = 50.8km
 SOUTHERN ALASKA (2)
 <AGS-P>.

SUA 0.22 348 iP 10 34.45 0.1
 eS 10 42.05
 PMS 0.53 90 iP 10 37.34 0.0
 iS 10 46.92
 PWA 0.55 42 iP 10 37.25 -0.2
 CGLM 0.66 276 iP 10 38.48 -0.5
 iS 10 48.71
 SPU 0.68 265 iP 10 38.72 -0.6
 iS 10 49.63
 CRP 0.73 272 iP 10 39.44 -0.6
 Sn 10 50.50
 NCG 0.74 283 iP 10 39.48 -0.7
 iS 10 50.61
 SLKM 0.77 164 eP 10 39.82 -0.7
 iS 10 51.74
 PLRM 0.81 64 eP 10 40.18 -0.7
 iS 10 52.10
 SKT 0.84 331 iP 10 40.70 -0.7
 eS 10 52.81
 GHO 0.98 57 eP 10 42.68 -0.6
 Sn 10 56.50
 SML 1.24 62 iP 10 45.98 -1.0
 SEW 1.29 152 eP 10 47.64 0.1
 eS 11 05.82
 RED 1.33 232 eP 10 47.40 -0.8
 eS 11 05.36
 SCM 1.70 68 eP 10 52.07 -1.3
 CNPM 1.75 190 iP 10 53.11 -1.0
 GLI 1.77 101 iP 10 52.10 -2.2
 VLU 2.10 91 eP 10 57.15 -1.7
 KLU 2.29 82 iP 10 59.85 -1.9
 KTH 2.32 357 eP 11 01.99 -0.1
 20 obs. associated

* JUN 18, 1990 00h 22m 39.52±1.02s
 38.299 N ±11.6km 24.967 E ± 9.5km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)
 ML 3.3 (ATH).

ATH 1.04 252 ePn 22 59.50 0.4
 APE 1.31 160 ePn 23 02.50 -1.2
 SMG 1.59 111 ePn 23 08.70 1.0
 NEO 1.69 307 ePn 23 07.80 -1.5
 VLI 2.26 226 ePb 23 21.50 4.0X
 ITM 2.66 246 ePn 23 24.00 0.8
 VAY 3.54 329 ePn 23 43.00 7.4X
 OHR 4.27 312 ePn 23 46.60 0.5
 S.D. = 1.4 on 6 of 8 obs.

* JUN 18, 1990 00h 31m 18.24±0.87s
 38.327 N ± 9.3km 25.094 E ± 8.3km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)
 ML 2.9 (ATH).

ATH 1.14 252 ePg 31 38.30 -1.3
 eSg 31 52.80
 APE 1.30 164 ePb 31 41.50 -0.9
 eSb 31 59.50
 SMG 1.51 114 ePb 31 46.00 0.7
 NEO 1.76 304 ePb 31 49.50 0.5
 EZN 1.78 32 eP 31 48.60 -0.6
 VLI 2.35 228 ePb 31 59.00 1.5
 S.D. = 1.4 on 6 of 6 obs.

? JUN 18, 1990 01h 11m 19.91±3.35s
 39.494 N ±18.5km 27.674 E ±24.1km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

EDC 0.86 10 iPg 11 37.40 0.9
 iSg 11 50.40
 KCT 0.92 35 iPg 11 38.30 0.8
 iSg 11 52.30
 IZI 1.62 58 ePn 11 48.30 -0.4
 YLV 1.69 50 iPn 11 48.80 -0.9
 ALT 1.94 102 ePn 11 54.00 0.6
 HRT 2.02 48 ePn 11 54.00 -0.5
 DMK 2.33 2 iPn 11 58.20 -0.6
 S.D. = 0.9 on 7 of 7 obs.

* JUN 18, 1990 01h 36m 04.05±0.65s
 19.609 S ±16.9km 175.083 W ±17.2km
 DEPTH = 99.7km (3 depth phases)
 4.8mb (5 obs.)
 TONGA ISLANDS (173)

DZM 17.44 259 iPc 40 05.00 2.4
 THZ 24.33 202 eP 41 13.40 -0.4
 LTZ 25.45 202 P 41 23.90 -0.3
 WB5 47.43 261 eP 44 27.40 -3.2X
 WRA 47.44 261 Pd 44 27.90 -2.9
 0.4s 8.20nm 4.9mb
 SPA 70.51 180 iPd 47 18.20 8.4X
 0.5s 11.11nm 4.9mb
 MAT 71.17 322 eP 47 13.00 -0.9
 0.9s 16.81nm 4.9mb
 TNP 79.00 43 P 47 58.70 -0.1
 pP 48 24.70 100km
 KVN 79.01 42 P 47 58.70 -0.1
 pP 48 24.90 101km
 PMR 83.55 12 P 48 21.20 -0.5
 TTA 83.63 9 P 48 22.30 0.0
 0.8s 4.31nm 4.4mb
 ALO 84.72 50 eP 48 29.00 0.5
 1.0s 3.50nm 4.2mb
 ANMO 84.72 50 P 48 29.10 0.6
 FBA 86.81 11 P 48 37.60 -0.3
 pP 49 03.90 99km
 INK 92.72 14 eP 49 05.00 -0.5
 YKA 94.58 24 eP 49 40.70 26.6X
 0.8s 0.90nm
 HFS 139.03 353 ePKP 55 10.50 -9.7X
 0.4s 1.00nm
 KSP 147.56 347 iPKP 55 37.50 2.4
 CLL 147.73 350 iPKPd 55 38.20 2.8X
 0.8s 12.00nm
 e 56 25.00
 PRU 148.73 348 PKP 55 40.20 3.2X
 e 56 10.70

GRF 149.56 352 ePKP 55 43.00 4.6X
 e 55 49.00
 KHC 149.74 349 iPKP 55 44.00 5.3X
 1.1s 5.00nm
 PRNI 150.80 297 ePKP 55 46.00 5.2X
 LDF 150.80 7 ePKP 55 46.70 6.5X
 0.6s 3.60nm
 MBH 151.03 296 ePKP 55 47.00 5.9X
 CDF 151.20 357 ePKP 55 46.70 5.7X
 LPF 151.24 8 ePKP 55 46.50 5.6X
 0.6s 3.60nm
 HAU 151.65 358 ePKP 55 47.40 5.8X
 0.4s 2.30nm
 BSF 151.81 357 ePKP 55 47.60 5.7X
 LOR 152.40 2 ePKP 55 49.10 6.5X
 0.8s 2.70nm
 SSF 152.59 2 ePKP 55 49.80 6.9X
 0.8s 2.00nm
 LBF 152.68 1 ePKP 55 49.80 6.7X
 0.8s 2.70nm
 S.D. = 1.4 on 14 of 32 obs.

JUN 18, 1990 01h 44m 39.27±0.25s
 21.882 S ± 7.1km 170.841 E ± 5.9km
 DEPTH = 115.7km (4 depth phases)
 5.0mb (5 obs.)
 LOYALTY ISLANDS REGION (189)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 11S, 19C
 Centroid Location:
 Origin Time 01:44:48.2 1.4
 Lat 21.72S 0.14 Lon 170.45E 0.09
 Dep 120.1 4.1 Half-duration 1.8
 Moment Tensor; Scale 10**16 Nm
 Mrr=-4.19 0.66 Mtt= 3.41 1.23
 Mff= 0.77 1.30 Mrt=-1.13 0.61
 Mrf= 9.33 0.74 Mtf= 4.18 0.96
 Principal Axes:
 T Val= 9.26 Plg=29 Azm=301
 N 2.88 26 195
 P -12.14 49 70
 Best Double Couple: Mo=1.1*10**17
 NP1: Strike= 79 Dip=29 Slip= -23
 NP2: 189 79 -117

DZM 4.09 267 iPc 45 39.00 -1.9
 iS 46 15.00
 PVC 4.76 330 iP 45 51.00 1.0
 NDF 7.45 58 ePc 46 30.20 3.3X
 SVA 8.08 64 eP 46 40.00 4.6X
 HNR 16.21 318 eP 48 21.00 -0.7
 WLZ 16.42 167 P 48 31.00 6.8X
 BRS 17.31 248 iPc 48 37.00 1.8
 e 48 44.00
 iS 51 51.00
 NGZ 17.71 168 P 48 57.60 17.4X
 CNZ 17.73 168 P 48 57.70 17.4X
 NOZ 17.79 161 P 48 40.20 -0.7
 e 49 02.50
 COO 19.06 239 eP 48 56.00 0.8
 RMO 20.66 253 iPc 49 12.80 1.2
 LTZ 20.88 177 P 49 32.60 18.8X
 CTA 23.02 270 iPc 49 35.30 0.3
 1.0s 88.00nm 5.1mb
 iS 53 40.00
 CAN 23.32 230 eP 49 40.00 2.1
 i 50 04.90 119km
 BWA 23.33 233 eP 49 37.70 -0.2
 i 50 01.10 111km
 QLP 24.69 254 ePc 49 51.00 0.0
 KDB 25.88 295 eP 50 02.00 0.0
 STK 27.85 243 eP 50 19.90 0.1
 0.9s 6.00nm 4.2mb
 e 57 05.20
 WB5 34.09 267 eP 51 17.80 3.0X
 e 56 31.70
 WRA 34.10 266 Pc 51 12.30 -2.6
 0.7s 15.90nm 4.9mb
 WARB 40.45 255 eP 52 07.70 -0.3
 SBA 56.06 181 eP 54 07.40 -0.5
 MAT 65.78 332 (P) 55 13.00 -0.9
 SPA 68.25 180 iPd 55 28.20 -1.2
 0.9s 45.45nm 5.4mb
 e 55 56.70 114km
 MAW 76.56 202 eP 56 18.00 0.0
 CN2 77.48 328 eP 56 23.00 -0.4

TIY 80.78 317 eP 56 41.00 -0.4
XAN 80.99 312 Pc 56 42.50 -0.1
CHG 81.11 294 eP 56 44.80 1.4
LZH 85.60 312 eP 57 07.00 0.9
1.5s 29.00nm 5.0mb
PRS 86.28 49 eP 57 10.10 0.8
PRI 86.67 49 eP 57 12.40 1.1
WDC 87.67 44 eP 57 16.70 0.8
FRI 87.76 49 ePd 57 16.70 0.3
CMB 87.81 47 eP 57 17.30 0.6
ORV 87.83 46 eP 57 17.10 0.5
ISA 87.99 50 eP 57 18.00 0.4
SBB 87.99 51 eP 57 17.00 -0.6
RVR 87.99 52 eP 57 18.00 0.4
PLM 88.07 53 eP 57 18.00 -0.2
MIN 88.16 45 ePd 57 18.20 -0.2
CLC 88.69 50 eP 57 21.00 0.1
e 57 52.00 119km
GSC 89.02 51 eP 57 23.00 0.5
TPC 89.02 53 eP 57 23.00 0.5
GLA 89.45 54 eP 57 24.00 -0.6
GTA 90.02 313 P 57 27.40 0.2
PNT 93.88 38 eP 57 45.00 0.4
INK 98.57 18 eP 58 03.00 -2.4
MBC 106.44 14 ePKP 02 47.00 -3.9X
SUF 132.70 339 ePKP 03 38.00 -3.4X
NUR 134.74 337 ePKP 03 45.00 -0.3
APO 138.11 343 ePKP 03 46.40 -5.4X
0.2s 1.50nm
NAO 138.65 345 PKP 03 51.00 -1.7
1.2s 6.90nm
KRA 143.75 328 ePKP 04 01.30 -0.7
SPC 144.15 327 ePKP 04 02.00 -0.2
KSP 144.91 332 iPKPd 04 03.20 -0.8
1.2s 94.00nm
e 04 29.00
RDO 145.05 311 iPKPc 04 03.00 -1.5
BZS 145.49 321 ePKP 04 04.50 -0.6
CLL 145.93 335 iPKP 04 06.00 0.3
1.8s 110.00nm
pP 04 32.00
SRO 146.01 326 iPKP 04 07.30 1.4
EKA 146.30 354 PKPd 04 06.10 -0.1
0.8s 15.90nm
PRU 146.30 332 PKP 04 06.50 0.2
1.5s 40.20nm
e 04 31.50
ZST 146.38 328 ePKP 04 05.40 -1.1
YKA 146.71 328 e(PKP) 04 06.50 -0.6
2.0s 149.00nm
WIT 146.81 342 ePKP 04 10.00 3.0X
e 04 36.00
VAY 147.01 313 ePKP 04 08.40 0.7
KHC 147.36 332 ePKP 04 07.20 -0.9
i 04 10.50
SKO 147.46 315 iPKP 04 10.90 2.4
WTS 147.50 342 ePKP 04 10.00 1.9
1.1s 49.00nm
e 04 36.00
GRF 147.91 335 iPKPd 04 12.10 3.1X
Z 23s 0.05um 4.2mszX
e 04 15.70
e(pPKP) 04 38.50
e 04 43.20
VAM 147.94 302 ePKP 04 12.00 2.6
BCAO 148.04 241 iPKPc 04 08.50 -1.7
1.4s 200.00nm
id 04 11.00
id 04 38.00
OHR 148.30 314 ePKP 04 09.00 -0.9
1.1s 54.00nm
PTJ 148.49 325 ePKPc 04 07.60 -2.5
TNS 148.50 338 ePKPd 04 13.20 3.3X
VLI 148.52 305 ePKP 04 12.80 2.5
ZAG 148.53 325 ePKP 04 06.20 -3.8X
ENN 148.84 341 ePKP 04 14.00 3.7X
1.0s 34.00nm
e 04 41.00
MEM 148.96 341 PKP 04 12.90 2.4
FUR 149.09 333 ePKP 04 14.90 4.0X
VBY 149.12 326 ePKP 04 10.00 -0.2
ITM 149.12 307 ePKP 04 14.00 2.7X
LJU 149.13 327 ePKP 04 10.30 -0.7
UCC 149.26 343 PKP 04 15.80 4.8X
CEY 149.39 327 ePKP 04 10.50 -0.9
VOY 149.46 328 ePKP 04 10.40 -1.2
i 04 15.20

FVI 149.60 329 PKP 04 45.00
KEK 149.62 312 ePKP 04 16.00 4.1X
TRI 149.75 327 iPKPd 04 16.00 4.1X
DOU 149.83 342 PKP 04 16.60 4.7X
1.0s 116.70nm
SQTA 149.84 332 iPKPd 04 16.50 4.3X
1.0s 38.30nm
e 04 23.20
i 04 24.40
i 04 26.20
i 04 43.10
i 05 22.30
i 05 25.50
CDF 150.44 338 ePKP 04 17.90 4.9X
1.1s 51.30nm
CTI 150.53 330 PKP 04 14.00 0.8
BSF 151.11 337 ePKP 04 19.40 5.4X
1.0s 34.00nm
HAU 151.12 338 ePKP 04 19.50 5.6X
1.0s 36.00nm
SAL 151.38 330 PKP 04 20.00 5.7X
MDI 151.61 332 PKP 04 19.50 4.8X
ARV 151.69 325 PKP 04 21.00 6.1X
VAI 151.95 333 PKP 04 14.00 -1.1
TDS 151.97 315 PKP 04 22.00 6.6X
PGD 152.07 327 PKP 04 22.00 6.3X
CRE 152.12 326 PKP 04 22.00 6.3X
ASS 152.13 324 PKP 04 21.50 5.9X
SGO 152.14 318 PKP 04 21.00 5.4X
MGR 152.22 317 PKP 04 21.00 5.2X
FLN 152.30 348 iPKPd 04 21.70 6.1X
1.0s 30.00nm
SDI 152.36 321 PKP 04 20.00 4.0X
LDF 152.39 347 iPKPd 04 22.00 6.3X
1.0s 24.00nm
BDI 152.50 320 PKP 04 21.00 4.9X
BOB 152.51 330 PKP 04 22.50 6.4X
LOR 152.58 341 iPKPd 04 22.70 6.6X
1.2s 25.30nm
GRR 152.73 348 iPKPd 04 23.00 6.8X
1.2s 29.75nm
LBF 152.79 340 ePKP 04 23.50 7.1X
1.0s 8.00nm
SSF 152.87 341 iPKPd 04 23.40 6.9X
1.2s 23.80nm
SOI 152.97 312 PKP 04 23.50 6.7X
LPL 153.07 335 ePKP 04 24.30 7.2X
1.2s 10.40nm
LPG 153.08 335 ePKP 04 24.50 7.3X
1.1s 9.75nm
LPF 153.11 348 iPKPd 04 23.90 7.2X
1.0s 30.00nm
SMF 153.14 340 ePKP 04 23.70 6.8X
1.2s 16.35nm
AVF 153.16 341 ePKP 04 23.60 6.8X
0.9s 4.90nm
BNI 153.48 334 PKP 04 17.00 -0.6
BGF 153.52 341 ePKP 04 24.60 7.2X
1.0s 9.00nm
MAF 153.91 341 ePKP 04 25.80 7.9X
1.0s 6.00nm
TCF 153.95 342 ePKP 04 25.50 7.5X
1.1s 8.55nm
SBF 154.12 332 ePKP 04 25.90 7.5X
1.2s 23.80nm
PGF 154.40 328 ePKP 04 26.70 7.9X
1.2s 17.85nm
FRF 154.71 332 ePKP 04 27.10 0.1X
1.0s 10.00nm
LRG 154.91 333 ePKP 04 27.70 8.4X
1.2s 14.90nm
LMR 154.95 332 ePKP 04 27.70 8.3X
1.0s 0.00nm
LIC 163.93 195 PKP 04 30.62 0.3
1.4s 49.50nm
KIC 163.99 196 PKP 04 30.68 0.3
1.3s 36.50nm
TIC 164.33 195 PKP 04 30.90 0.2
S.D. = 1.1 on 75 of 133 obs.
% JUN 18, 1990 03h 13m 03.49±2.32s
39.416 N ±22.7km 27.715 E ±9.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

KCT 0.97 30 eSg 13 33.20
EZM 1.15 291 ePn 13 22.30 0.4
IZI 1.64 55 ePn 13 25.00 0.0
YLV 1.72 47 iPn 13 33.00 0.5
13 32.80 -0.8
S.D. = 0.8 on 5 of 5 obs.
* JUN 18, 1990 03h 32m 56.59±0.70s
14.772 S ±15.1km 74.431 W ±11.0km
DEPTH = 91.6 ± 14.2 km
4.4mb (1 obs.)
PERU Felt (III) of Ice. (116)
PT03 1.53 300 iPc 33 22.00 -0.5
PT06 2.07 297 IPd 33 30.00 0.5
IS 33 56.00
ARE 3.29 121 eP 33 49.00 1.7
IS 34 28.50
PT08 3.47 323 iPc 33 50.40 0.5
NNA 3.63 319 iPc 33 51.50 -0.2
eS 34 36.00
PT10 3.64 317 eP 33 51.50 -0.4
eS 34 34.50
ZOB0 6.26 105 Pd 34 33.80 5.1X
S 35 46.00
LPB 6.35 107 P 34 28.00 -1.7
ANT 9.66 158 e(P) 35 09.50 -5.1X
PEL 18.60 170 IPd 37 08.90 -0.7
BAO 25.52 95 eP 38 19.00 0.4
SES 72.40 336 eP 44 38.00 23.4X
SPA 75.32 180 eP 44 31.00 0.3
1.0s 6.00nm 4.4mb
YKA 83.18 342 eP 45 37.00 23.6X
1.60nm
S.D. = 1.1 on 10 of 14 obs.
* JUN 18, 1990 04h 05m 39.72±1.05s
11.163 N ±14.8km 121.962 E ±15.2km
DEPTH = 33.0km (normal)
4.8mb (4 obs.) 4.1msz (1 obs.)
PANAY, PHILIPPINE ISLANDS (254)
SSE 19.85 358 eP 10 09.40 -1.4
LOE 20.56 290 eP 10 19.00 0.6
GYA 20.97 319 P 10 23.60 0.9
CHG 23.48 292 ePc 10 49.30 1.8
1.2s 18.75nm 4.5mb
CHTO 23.48 292 (P) 10 47.00 -0.5
XAN 25.70 334 P 11 06.20 -2.5
CD2 25.90 322 P 11 11.00 0.4
TIY 27.79 344 eP 11 26.00 -1.8
Z 18s 0.50um 4.1msz
BJI 29.21 351 eP 11 41.50 1.0
WB5 33.18 158 eP 12 14.80 -0.8
MDJ 33.98 10 eP 12 24.50 2.2
ePP 12 29.50
GUN 37.68 301 P 12 54.40 0.0
PKI 37.97 301 P 12 56.40 -0.4
0.6s 26.00nm 5.3mb
DMN 38.24 301 P 12 58.60 -0.3
GKN 38.75 301 P 13 02.60 -0.6
0.8s 24.00nm 5.0mb
MBC 85.75 12 eP 18 18.00 1.6
0.7s 1.00nm 4.1mb
S.D. = 1.4 on 16 of 16 obs.
JUN 18, 1990 04h 25m 25.77±1.58s
4.479 N ± 5.1km 125.760 E ± 6.8km
DEPTH = 207.2 ± 16.3 km
5.1mb (23 obs.)
TALAUD ISLANDS (263)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 17C
Centroid Location:
Origin Time 04:25:23.3 1.1
Lat 4.41N 0.09 Lon 125.45E 0.12
Dep 164.0 3.3 Half-duration 1.7
Moment Tensor: Scale 10**16 Nm
Mrr=-1.91 0.75 Mtt=2.56 0.84
Mff=-4.47 0.99 Mrf=-1.69 0.75
Mrf=2.97 0.91 Mtf=-9.44 0.88
Principal Axes:
T Vol= 10.26 Plg=20 Azm=216
N 0.93 69 16
P -11.20 7 124

EDC 0.94 7 iPg 13 21.20 -0.2

KHZ 27.97 201 P 05 24.70 0.9
 LTZ 28.74 202 eP 05 33.30 2.5
 WB5 49.66 258 eP 08 25.10 -0.1
 WRA 49.68 258 Pc 08 25.30 0.0
 0.6s 4.20nm 4.6mb
 ASPA 49.83 253 iPc 08 26.20 -0.3
 0.7s 47.00nm 5.6mb
 S.D. = 1.3 on 12 of 12 obs.

* JUN 18, 1990 10h 12m 04.63±0.78s
 4.943 N ±10.7km 31.994 E ±14.6km
 DEPTH = 10.0km (geophysicist)
 4.5mb (8 obs.)

SUDAN (557)
 mbLg 4.8 (BUL).

LWI 7.81 204 iP+ 13 59.10 -2.3
 NAI 7.82 142 iP 14 04.00 2.5
 1.0s 60.00nm 5.8mb X
 AAE 7.85 58 eP 13 59.50 -2.5
 NPA 21.16 160 eP 16 56.00 3.5X
 iSg 23 27.00
 iLg 23 37.30
 KRI 21.76 186 eP 17 21.10 22.4X
 eSn 21 24.00
 eLR 23 38.00
 BUL 25.15 187 eP 17 55.20 23.4X
 eSn 22 32.00
 eLR 25 13.50
 CFR 40.22 356 iPc 19 44.00 1.0
 LPG 46.00 335 eP 20 30.40 0.1
 0.6s 2.70nm 4.4mb
 LPL 46.02 335 eP 20 30.60 0.2
 0.6s 2.70nm 4.4mb
 SMF 48.14 334 eP 20 47.50 0.7
 0.8s 4.05nm 4.6mb
 LBF 48.35 335 eP 20 48.70 0.2
 0.6s 2.70nm 4.5mb
 AVF 48.47 334 eP 20 49.30 0.0
 0.6s 1.80nm 4.3mb
 TCF 48.60 333 eP 20 51.80 1.4
 0.6s 1.80nm 4.3mb
 SSF 48.61 334 eP 20 50.10 -0.3
 0.8s 4.05nm 4.5mb
 LOR 48.62 335 eP 20 49.30 -1.2
 0.8s 4.05nm 4.5mb
 S.D. = 1.6 on 12 of 15 obs.

% JUN 18, 1990 11h 10m 22.79±0.65s
 60.290 N ±5.3km 5.360 E ±9.6km
 DEPTH = 10.0km (geophysicist)

SOUTHERN NORWAY (535)
 MD 1.5 (BER).

BER 0.09 352 eP 10 24.98 -0.4
 iS 10 27.71
 ASK 0.21 337 iPc 10 27.31 0.0
 iS 10 30.63
 ODD1 0.74 120 iPd 10 37.21 -0.1
 eS 10 48.42
 SUE 0.82 339 eP 10 39.07 0.4
 iS 10 50.62
 HYA 0.97 24 eP 10 41.28 0.1
 eS 10 55.47
 KMY 1.08 183 eP 10 43.06 -0.1
 eS 10 59.44
 BLS2 1.28 141 eP 10 46.73 0.2
 eS 11 03.67
 S.D. = 0.3 on 7 of 7 obs.

JUN 18, 1990 11h 42m 32.39±0.43s
 24.887 N ±5.3km 122.508 E ±6.1km
 DEPTH = 22.6km (3 depth phases)
 4.8mb (11 obs.)

TAIWAN REGION (243)
 ML 4.7 (BJI).

TWC 0.66 245 iPc 42 44.10 -1.0
 eS 42 51.50
 TWZ 0.87 284 ePc 42 48.50 -0.2
 ANP 0.95 288 iP 42 50.00 -0.1
 eS 43 02.00
 TWD 1.16 226 ePc 42 53.70 0.5
 eS 43 08.90
 TWO 1.64 249 ePc 43 02.20 2.0
 TWF1 1.89 216 eP 43 06.10 2.4
 TWK 2.45 229 ePc 43 13.90 2.0

QZH 3.56 272 Pn 43 25.50 -2.0
 Z 10s 5.10um
 Pg 43 41.00
 Sg 44 22.00
 SSE 6.29 350 Pd 44 03.50 -2.7
 0.5s 52.00nm 5.6mb
 Z 12s 3.10um 4.3MsZ
 N 10s 3.10um
 PP 44 10.00
 44 23.80 -3.9X

NJ2 7.83 337 eP 44 23.80 -3.9X
 Z 12s 1.50um
 S 45 52.50
 BAG 8.62 192 eP 44 38.00 -1.0
 WHN 9.16 310 eP 44 44.00 -2.2
 Z 10s 1.40um
 E 10s 1.00um
 PP 44 51.50

TIA 12.20 339 eP 45 29.90 2.2
 GYA 14.37 280 P 46 00.00 3.3X
 N 10s 1.70um
 E 10s 0.70um
 S 48 38.60
 XAN 14.93 311 P 46 03.00 -0.8
 N 10s 2.20um
 E 10s 0.90um

TIY 15.40 329 eP 46 15.50 5.6X
 Z 10s 1.80um
 N 10s 2.30um
 BJI 16.02 342 eP 46 19.50 1.7
 1.0s 24.00nm 4.3mb
 Z 12s 0.90um 4.7MsZ
 N 10s 0.82um
 SNY 16.92 3 eP 46 30.40 1.2
 Z 11s 1.70um
 N 10s 1.20um
 E 10s 0.50um

eS 49 44.00
 MTMJ 17.55 45 eP 46 41.90 4.6X
 CD2 17.62 294 eP 46 37.60 -0.5
 MAT 17.78 46 eP 46 46.00 5.9X
 eS 50 07.00
 CHJJ 18.02 48 eP 46 51.40 8.4X
 HHC 18.36 333 eP 46 50.00 2.8X
 Z 12s 1.40um
 sP 47 04.00
 BTO 18.83 329 eP 46 55.00 1.9
 PP 47 01.00
 CN2 19.02 7 Pd 46 56.80 1.6
 Z 11s 1.50um
 N 11s 0.90um
 E 11s 0.70um
 PP 47 06.00
 eS 50 30.00
 LZH 19.54 309 P 47 00.00 -1.7
 3.4s 170.00nm 4.8mb X
 Z 14s 1.00um 4.6MsZ
 E 10s 0.70um
 eS 50 40.00

MDJ 20.51 15 eP 47 13.00 1.5
 Z 15s 1.10um 4.3MsZ
 N 12s 1.00um
 LOE 20.74 253 eP 47 14.00 -0.1
 CHG 22.68 259 eP 47 35.00 1.4
 GTA 23.97 313 P 47 47.50 1.3
 GKN 33.96 284 P 49 00.00 -16.6X
 WMO 34.06 312 P 49 17.50 0.4
 N 10s 0.30um
 NDI 40.43 286 iPd 50 11.00 0.2
 WB5 45.97 164 eP 50 55.00 -0.7
 i 51 02.00 23km
 i 52 31.20
 WRA 46.02 164 Pd 50 55.60 -0.5
 1.0s 25.70nm 5.1mb
 QIS 48.13 158 eP 51 12.20 -0.6
 e 51 19.00 23km
 ASPA 49.51 166 iPd 51 22.30 -1.1
 0.6s 33.00nm 5.5mb

MAIO 54.58 298 eP 52 05.00 3.6X
 STK 59.32 161 eP 52 40.20 5.3X
 0.7s 4.00nm 4.7mb
 KEV 68.78 338 iP 53 36.00 -0.3
 0.5s 8.40nm 5.1mb
 SOD 69.52 336 iP 53 40.40 -0.5
 i 53 47.20 22km
 SUF 71.03 331 iP 53 49.20 -1.0
 0.6s 4.10nm 4.7mb
 INK 72.12 22 eP 53 56.00 -0.6

MBC 72.31 13 eP 53 56.50 -1.2
 0.7s 4.00nm 4.6mb
 NAO 78.44 332 P 54 30.70 -2.0
 1.0s 4.60nm 4.5mb
 YKA 81.85 23 eP 54 50.20 -0.7
 0.7s 2.50nm 4.4mb
 FFC 92.00 24 eP 55 40.00 -0.6
 0.7s 7.00nm 5.2mb

ORV 92.42 44 eP 55 51.20 8.4X
 CMB 94.01 45 iPc 55 51.00 0.8
 KVN 94.85 43 P 55 55.00 0.8
 FRI 95.06 45 ePc 55 55.60 0.7
 TNP 95.99 43 P 56 00.20 0.7
 LKO 118.93 298 PKP 01 20.04 -1.6
 KIC 120.02 294 (PKP) 01 22.40 -1.3
 ZOBO 166.87 51 PKP 02 40.00 1.5
 S.D. = 1.4 on 44 of 55 obs.

JUN 18, 1990 13h 24m 04.29±0.53s
 34.046 N ±5.1km 118.958 W ±4.6km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN CALIFORNIA (43)
 ML 3.0 (NEIS).

TWL 0.38 52 iPc 24 12.59 0.5
 S 24 18.12
 SCY 0.42 82 eP 24 12.77 -0.1
 PVPS 0.53 119 ePc 24 15.37 0.4
 S 24 23.17
 FMA 0.65 121 eP 24 17.40 0.2
 CIW 0.67 150 iPc 24 17.90 0.3
 S 24 26.98
 MWC 0.77 76 eP 24 19.01 -0.4
 CIS 0.79 144 eP 24 19.78 0.2
 S 24 30.65

ABL 0.83 345 eP 24 20.60 0.1
 BLP 1.30 294 eP 24 28.20 -0.1
 BCH 1.47 321 eP 24 31.00 0.1
 PEC 1.50 95 eP 24 31.80 0.5
 PLM 1.88 111 eP 24 35.50 -1.4
 TNP 4.27 19 eP 25 15.50 4.5X
 KVN 5.04 8 eP 25 38.30 16.4X
 S.D. = 0.6 on 12 of 14 obs.

% JUN 18, 1990 13h 26m 21.31±0.83s
 39.867 N ±6.0km 29.262 E ±8.9km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

IZI 0.50 19 iPg 26 31.00 -0.4
 iSg 26 38.30
 YLV 0.70 7 iPg 26 34.90 -0.4
 iSg 26 46.90
 GPA 0.91 62 ePn 26 40.70 2.0
 GBZT 0.93 9 eP 26 39.00 -0.1
 HRT 1.00 18 ePg 26 39.30 -1.0
 ALT 1.04 141 iPg 26 40.00 -1.1
 iSg 26 52.70
 EDC 1.17 295 ePn 26 43.90 0.7
 KHL 1.56 172 ePn 26 49.40 0.3
 S.D. = 1.2 on 8 of 8 obs.

% JUN 18, 1990 13h 58m 37.16±0.63s
 44.387 N ±5.9km 7.395 E ±5.5km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 1.9 (GEN).

STV 0.15 200 P 58 41.02 0.2
 S 58 43.35
 ENR 0.16 174 P 58 40.98 0.0
 S 58 43.65
 PZZ 0.24 299 P 58 42.56 0.2
 S 58 46.25
 ROB 0.35 105 P 58 44.82 0.4
 S 58 50.05
 IMI 0.60 143 P 58 48.26 -1.0
 RRL 0.69 321 P 58 50.46 -0.5
 PCP 0.84 79 P 58 53.43 0.1
 S.D. = 0.6 on 7 of 7 obs.

* JUN 18, 1990 14h 12m 06.10±0.95s
 11.375 N ±11.3km 121.864 E ±16.1km
 DEPTH = 33.0km (normol)
 4.0mb (1 obs.)
 PANAY, PHILIPPINE ISLANDS (254)

18d 14h

Table with columns for station name, magnitude, depth, and time. Includes stations BAG, DAV, TSM, LOE, KMI, CHG, BJI, WB5, WRA, PKI.

JUN 18, 1990 14h 34m 35.79 ± 0.89s
60.647 N ± 7.7km 152.205 W ± 7.6km
DEPTH = 112.2 ± 23.2 km
SOUTHERN ALASKA (2)

Table with columns for station name, magnitude, depth, and time. Includes stations SVW, PMR, KDC, TTA, TOA, FBA, IMA, INK.

JUN 18, 1990 14h 45m 50.92 ± 0.63s
40.283 N ± 7.1km 25.864 E ± 7.8km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

Table with columns for station name, magnitude, depth, and time. Includes stations EZN, RDO, KDZ, EDC, RZN, KCT, MMB, DMK, NEO, SMG, YLV, VAY, GBZT, HRT, PVL, VTS, KHL, ALT, SKO, OHR, ISR, VRI, BZS.

JUN 18, 1990 14h 53m 31.60s
36.715 N 121.390 W
DEPTH = 3.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 3.3 (BRK). Felt (IV)
at Tres Pinos. Also felt at Hollister.

Table with columns for station name, magnitude, depth, and time. Includes stations SAO, LLA, PRS, GCC, ARN, MHC, PRI, PCC, PHAM, PKEM, BKS, BRK, FRI, ZSP, CMB.

Table with columns for station name, magnitude, depth, and time. Includes stations BCH, BLP, ABL, KVN, TNP.

20 obs. associated
JUN 18, 1990 15h 15m 53.94 ± 2.66s
16.741 S ± 60.4km 71.702 W ± 22.5km
DEPTH = 81.5 ± 15.1 km
3.7mb (1 obs.)
SOUTHERN PERU (117)
Felt (II) at Arequipa.

Table with columns for station name, magnitude, depth, and time. Includes stations ARE, LPB, ZOBO, PT03, PT06, CCH, PT08, NNA, YKA, MAT.

JUN 18, 1990 15h 16m 57.67 ± 0.66s
39.229 N ± 7.4km 20.612 E ± 6.4km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
ML 3.8 (ATH).

Table with columns for station name, magnitude, depth, and time. Includes stations KEK, VLS, OHR, NEO, LCI, VAY, ATH, SKO, BRT, VLI, TDS, MMB, SOI, RZN, SGO.

JUN 18, 1990 15h 49m 22.32 ± 1.10s
42.840 N ± 8.5km 12.649 E ± 17.5km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

Table with columns for station name, magnitude, depth, and time. Includes stations ASS, ARV, CRE, AZI, SDI.

JUN 18, 1990 16h 45m 03.27 ± 17.39s
59.821 N ± 36.8km 8.118 E ± 121.1km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 1.6 (BER).

Table with columns for station name, magnitude, depth, and time. Includes station ODD1.

Table with columns for station name, magnitude, depth, and time. Includes stations BLS1, BLS2, KMY.

S.D. = 0.1 on 4 of 4 obs.
JUN 18, 1990 16h 52m 55.26 ± 0.28s
8.813 S ± 5.2km 111.235 E ± 7.7km
DEPTH = 33.0km (normal)
5.0mb (15 obs.)
JAVA (277)

Table with columns for station name, magnitude, depth, and time. Includes stations NANU, MEKA, MTN, BAL, WARB, KLB, MUN, COOL, NNT, WB5, WRA, ASPA, Z.

Table with columns for station name, magnitude, depth, and time. Includes stations OIS, CHG, CD2, GBA, SSE, NJ2, XAN, PKI, GUN, DMN, GKN.

Table with columns for station name, magnitude, depth, and time. Includes stations TIA, LZH, TIY, BJI, GTA, BTO, NDI, IIDJ, MTMJ, SNY, CHJJ, MAT, YAMJ, CN2, WMQ, QUE, MAIO, KRI, BUL, BCAO.

SUF 95.51 333 iP 06 18.30 0.5 ... SOD 95.99 337 eP 06 29.00 9.0X ... HFS 101.34 330 ePdiff06 43.50 -0.7

% JUN 18, 1990 17h 03m 37.21 ± 1.26s ... ROMANIA (358)

VRI 0.22 322 iPc 03 45.50 -0.2 ... S.D. = 1.0 on 7 of 7 obs.

& JUN 18, 1990 17h 21m 39.47s ... WASHINGTON-OREGON BORDER REGION (28)

NLO 0.14 43 Pd 21 43.60 -0.4 ... YEL 1.00 77 Pd 21 57.04 -1.0 ... JLK 1.01 80 P 21 57.35 -0.9

FMW 1.63 54 P 22 06.90 -0.5 ... GL2 1.93 90 P 22 12.12 0.5

PGW 1.96 20 P 22 13.11 1.2 ... MCW 2.74 11 P 22 23.49 0.3 ... 64 obs. associated

& JUN 18, 1990 18h 29m 53.00s ... CENTRAL ALASKA (1)

SKT 0.24 181 iP 30 05.77 -0.5 ... PAX 2.90 72 eP 30 36.87 -1.2 ... 18 obs. associated

JUN 18, 1990 19h 02m 57.33 ± 0.20s ... CHILE-BOLIVIA BORDER REGION (124) ... Best Double Couple: M=1.1e+17

ANT 2.61 224 iPc+ 03 38.50 -0.6 ... ZON 9.68 181 e(P) 05 17.00 1.9

CFA 9.74 179 iPc 05 13.00 -2.8 ... NNA 12.66 319 eP 05 51.50 -2.9

BAO 20.31 76 eP 07 24.40 -1.9 ... BLA 59.80 349 P 12 51.40 -1.0

NAV 59.97 349 P 12 52.20 -1.3 ... SPA 68.31 180 iPd 13 49.20 1.5

GOL 70.25 330 P 13 59.60 -0.4 ... SYP 74.42 318 eP 14 25.00 0.5

SBA 75.59 190 e(P) 14 33.30 2.9X ... MHC 77.27 319 ePd 14 41.50 1.0

19d 09h

Table with columns for station ID, time, depth, and depth change. Includes stations SPA, SIV, ZOBO, KIM, BLF, PRY, SLR, BUL, KRI, LSZ, FBA, MBC, MAT. S.D. = 1.2 on 11 of 14 obs.

& JUN 19, 1990 10h 20m 31.64s
46.840 N 119.322 W
DEPTH = 2.7km
WASHINGTON (29)
<SEA>. CL 3.3 (SEA).

Table with columns for station ID, time, depth, and depth change. Includes stations CRF, WRD, WAH2, GBL, BVW, WIW, VTC, RSW, EPH, BRVW, PRW, MXC, EBG, SAW, WG2, TBM, WTV, PATW, ETW, NAC, DHW2, LNOR, DPW, GL2, NLW, JBO, WPW, GLK, FMW, VGB, ASR, GSM, RMW, RVC, VTHM, HTW, RPW, CROR, JCW, HDW. 40 obs. associated

* JUN 19, 1990 10h 34m 43.68±0.60s
38.409 S ±14.2km 16.450 W ±11.3km
DEPTH = 10.0km (geophysicist)
5.0mb (14 obs.) 4.3Msz (1 obs.)
SOUTH ATLANTIC RIDGE (410)

Table with columns for station ID, time, depth, and depth change. Includes stations BAO, BUL, SIV, LSZ, KRI.

Table with columns for station ID, time, depth, and depth change. Includes stations LIC, KIC, TIC, LKO, ZOBO, SPA, BCAA, LWI, SOI, EPF, TDS, MGR, SGO, BSS, RDP, SDI, AZI, DUI, CAF, LSF, MAF, TCF, LPL, OHR, SMF, AVF, VAI, SSF, MDI, LOR, FVI, CDF, KHC, MLR, PRU, YKA, MBC, INK. S.D. = 1.2 on 40 of 43 obs.

? JUN 19, 1990 10h 54m 11.40±9.59s
46.693 N ±31.3km 15.175 E ±68.6km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.6 (LJU).

Table with columns for station ID, time, depth, and depth change. Includes stations LJU, CEY, VOY, FVI. S.D. = 0.3 on 4 of 4 obs.

Table with columns for station ID, time, depth, and depth change. Includes stations PT06, PERU, PT08.

Table with columns for station ID, time, depth, and depth change. Includes stations NNA, ARE, ZOBO, LPB. S.D. = 0.9 on 4 of 6 obs.

JUN 19, 1990 11h 30m 25.34±1.14s
22.558 S ± 7.6km 177.795 W ± 8.8km
DEPTH = 303.7 ± 10.7 km
4.6mb (16 obs.)
SOUTH OF FIJI ISLANDS (171)

Table with columns for station ID, time, depth, and depth change. Includes stations SVA, VUN, DZM, THZ, KHZ, LTZ, RMO, ASPA, WB5, WRA, WARB, NANU, SPA, MAT, ADK, SDN, PRS, GCC, BCH, PLM, FRI, CMB, ORV, WDC, MIN, GLA, KDC, TNP, KVN, SVW, LON, GMW, RMW, MSU, TTA, PMR, TOA, PNT, ALQ, ANMO, NEW, LRM, FBA, IMA, BW06, CHTO, GOL, SES, RSSD, INK, YKA, MBC, NAO.

19d 16h

GRF 4.99 265 eSg 12 30.00
e(Pg) 12 18.00 36.0X
eSg 13 05.00
S.D. = 0.4 on 4 of 10 obs.

JUN 19, 1990 16h 11m 51.77 ± 1.18s
16.581 N ± 7.2km 60.678 W ± 10.9km
DEPTH = 33.0km (normol)
3.9mb (1 obs.)

LEEWARD ISLANDS (92)
MD 4.1 (TRN). ML 3.7 (FDF).

SFG 0.59 237 iPd 12 03.06 -0.6
SEG 0.81 258 ePd 12 06.65 -0.1
S 12 15.80
MGG 0.90 223 iPd 12 07.65 -0.4
S 12 17.00
DOG 1.05 239 eP 12 10.10 -0.2
PAG 1.11 240 ePd 12 10.74 -0.3
S 12 22.40
8PA 1.22 292 ePc 12 13.28 0.7
S 12 27.30
BBL 1.30 216 iPd 12 13.38 -0.4
S 12 28.00
MDN 1.44 209 eP 12 15.47 -0.2
eS 12 32.42
DPMT 1.48 207 eP 12 16.59 0.2
MGH 1.48 276 eP 12 17.70 1.3
S 12 35.00
CRM 1.83 187 eP 12 21.70 0.2
S 12 42.70
FDF 1.89 194 iPd 12 21.98 -0.4
S 12 42.00
NEV 1.89 287 eP 12 20.30 -2.1
S 12 46.00
MVM 2.03 186 iPd 12 24.78 0.5
S 12 47.80
BIM 2.09 190 eP 12 25.36 0.2
S 12 49.70
SKI 2.11 291 eP 12 27.32 1.9
eS 12 50.29
SLW 2.56 186 eP 12 32.53 0.7
SLB 2.76 187 eP 12 33.35 -1.4
SVV 3.29 189 eP 12 43.02 0.9
eS 13 17.21
SV8 3.34 190 eP 12 43.45 0.6
eS 13 19.68
YKA 59.11 334 eP 21 50.20 -1.0
0.6s 0.60nm 3.9mb
S.D. = 0.9 on 21 of 21 obs.

JUN 19, 1990 16h 16m 15.46 ± 0.93s
39.168 N ± 7.7km 20.497 E ± 10.8km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)

KEK 0.77 315 eP 16 30.40 0.0
eS 16 44.50
VLS 0.99 176 eP 16 34.30 0.0
eS 16 50.00
OHR 1.95 7 ePn 16 48.00 -1.0
NEO 2.12 85 eP 16 51.50 0.0
VAY 2.67 36 ePn 16 58.70 -0.6
SKO 2.89 14 ePn 17 04.00 1.6
S.D. = 1.2 on 6 of 6 obs.

JUN 19, 1990 16h 29m 14.52 ± 0.39s
42.075 N ± 4.1km 12.769 E ± 4.2km
DEPTH = 16.1 ± 5.0 km
CENTRAL ITALY (381)

RMP 0.27 191 Pd 29 20.90 0.4
eSg 29 25.30
RDP 0.32 187 Pc 29 21.90 0.5
eSg 29 27.60
AZI 0.50 100 Pd 29 24.10 -0.4
eSg 29 31.30
AQU 0.55 59 P 29 25.20 -0.1
SDI 0.86 115 P 29 29.80 -0.9
iSg 29 44.00
ASS 1.00 355 P 29 33.60 0.6
eSg 29 49.30
DUI 1.33 108 P 29 40.00 1.6
ARV 1.43 5 P 29 41.30 1.5
CRE 1.67 339 P 29 44.50 1.3
RSM 1.87 353 P 29 47.80 1.8
PGD 1.96 337 P 29 49.00 1.5

SFI 1.96 340 eSn 30 14.10
P 29 48.50 1.1
eSn 30 14.50
BSS 2.00 129 P 29 49.00 1.0
SGO 2.44 128 P 29 54.50 0.2
MME 2.60 325 P 29 55.70 -1.2
PGF 2.84 281 Pn 30 01.30 1.3
BOB 3.62 319 P 30 11.50 0.4
VOY 4.04 11 e(Pn) 30 16.00 -1.0
eSn 31 14.50
LJU 4.17 17 eP 30 17.50 -1.3
e(Sn) 31 09.50
SBF 4.30 296 Pn 30 20.90 0.1
FVI 4.52 0 P 30 23.50 -0.2
FRF 4.74 290 Pn 30 26.50 -0.5
LMR 4.78 287 Pn 30 26.80 -0.8
LRG 4.92 288 Pn 30 29.30 -0.1
BNI 5.33 306 P 30 34.50 -1.0
LPG 5.54 310 Pn 30 42.00 3.5X
LPL 5.56 310 Pn 30 42.10 3.3X
S.D. = 1.0 on 25 of 27 obs.

JUN 19, 1990 17h 20m 09.07 ± 0.33s
45.943 N ± 6.5km 83.185 E ± 9.3km
DEPTH = 33.0km (normol)
4.6mb (12 obs.)

NORTHERN XINJIANG, CHINA (332)

GKN 17.94 176 P 24 17.60 -0.2
0.4s 19.00nm 4.6mb
PKI 18.42 174 P 24 24.20 0.4
0.6s 19.00nm 4.4mb
QUE 20.21 224 eP 24 48.00 4.0X
SHL 21.50 158 iP 24 56.60 -0.6
CHTO 30.03 149 (P) 26 17.00 -0.2
SUF 35.84 319 iP 27 07.80 0.7
0.3s 3.70nm 4.8mb
SOD 35.97 327 eP 27 08.00 -0.1
NUR 36.61 315 eP 27 14.00 0.4
HFS 42.06 316 eP 27 58.50 -0.3
0.7s 6.90nm 4.5mb
Z 17s 0.85um 3.5mszX
eP 28 02.70 14kmX
eS 28 04.20
LR 44 45.00
NAO 43.27 317 P 28 08.50 -0.2
0.6s 2.10nm 4.1mb
LPG 51.37 299 eP 29 13.80 1.1
0.5s 9.50nm 5.0mb
LPL 51.37 299 eP 29 13.70 1.1
0.5s 12.40nm 5.1mb
SSF 52.54 302 eP 29 20.90 -0.2
0.8s 4.70nm 4.5mb
BGF 53.18 302 eP 29 25.80 -0.1
MAF 53.52 302 eP 29 28.80 0.4
TCF 53.70 302 eP 29 30.00 0.3
0.7s 2.75nm 4.4mb
LDF 53.87 305 eP 29 30.20 -0.7
FLN 53.98 306 eP 29 31.30 -0.4
LSF 54.12 302 eP 29 32.60 -0.2
INK 62.81 14 eP 30 33.00 -0.1
BCAO 69.34 254 iPc 31 14.00 -1.5
0.7s 12.00nm 5.1mb
YKA 70.98 9 eP 31 24.10 -0.7
0.7s 5.10nm 4.7mb
WB5 80.24 132 eP 32 18.70 0.9
WRA 80.28 132 Pc 32 18.90 0.9
0.7s 4.00nm 4.5mb
TNP 94.37 16 P 33 26.20 -0.6
S.D. = 0.7 on 24 of 25 obs.

JUN 19, 1990 17h 47m 00.32 ± 0.74s
45.809 N ± 11.6km 15.774 E ± 5.5km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.7 (LJU).

ZAG 0.15 87 iPd 47 03.60 -0.1
iSg 47 07.20
PTJ 0.16 55 iPd 47 04.20 0.2
eSg 47 08.20
VBY 0.47 230 ePg 47 10.10 0.1
iSg 47 13.20
LJU 0.90 286 ePg 47 18.00 0.5
eSg 47 30.00
CEY 0.95 266 e(Pg) 47 18.40 0.0
eSg 47 31.90

VOY 1.33 280 ePg 47 24.30 -0.6
eSg 47 41.20
S.D. = 0.5 on 6 of 6 obs.

JUN 19, 1990 18h 11m 23.22 ± 0.89s
19.740 N ± 11.7km 109.209 W ± 8.8km
DEPTH = 33.0km (normol)
4.6mb (11 obs.) 4.4MsZ (1 obs.)
REVILLA GIGEDO ISLANDS REGION (53)
Ms 4.6 (BRK).

MRX 7.55 89 iP 13 14.80 1.0
11J 8.92 88 (P) 13 34.00 0.6
CRX 8.99 91 (P) 13 33.20 -0.9
ACX 9.33 106 (P) 13 39.20 0.7
PPM 10.01 92 iP 13 48.70 0.3
OXX 12.14 101 iP 14 18.80 1.7
GLA 14.18 340 eP 14 45.00 1.2
BAR 14.52 334 eP 14 48.00 -0.2
PLM 15.18 335 eP 15 01.00 4.0X
ALO 15.34 9 eP 14 59.00 -0.1
1.8s 125.00nm 4.9mb
ANMO 15.34 9 P 15 01.00 1.8
1.5s 52.00nm 4.6mb
TPC 15.55 338 eP 15 03.00 1.3
RVR 15.95 335 eP 15 06.00 -0.7
MWC 16.43 333 eP 15 16.00 2.9
SBB 16.73 335 eP 15 18.00 1.2
GSC 16.89 336 eP 15 19.00 0.2
SYP 17.55 329 eP 15 31.00 3.9X
CLC 17.64 337 eP 15 29.00 0.9
MEO 17.69 30 eP 15 27.50 -1.2
ISA 17.84 335 eP 15 36.00 5.4X
MSU 18.88 353 P 15 44.00 0.3
PRI 19.19 331 ePd 15 48.20 1.0
UYO 19.44 39 eP 15 50.50 0.5
FRI 19.49 334 ePd 15 49.70 -0.7
TNP 19.56 341 P 15 51.00 -0.5
1.7s 72.46nm 4.7mb
PRS 19.68 330 ePd 15 53.50 0.9
TUL 19.97 33 e(P) 15 54.30 -1.3
1.3s 16.20nm 4.2mb
GOL 20.17 9 P 15 56.50 -1.5
1.0s 8.75nm 4.1mb
GCC 20.54 330 eP 16 00.50 -1.0
DUG 20.62 352 P 16 02.00 -0.5
MHC 20.62 331 eP 16 02.20 -0.3
CMB 20.66 334 e(P) 16 01.90 -0.9
DAU 20.68 356 P 16 03.00 -0.3
KVN 20.72 340 P 16 03.70 0.1
BKS 21.33 331 ePc 16 11.50 1.9
1.0s 39.00nm 4.8mb
Z 20s 1.60um 4.4MsZ
N 20s 2.10um
E 20s 1.20um

ORV 22.41 334 ePd 16 22.50 2.2
MIN 23.12 335 e(P) 16 29.20 1.7
WDC 23.70 334 eP 16 30.20 -2.7
LRM 26.15 355 eP 16 56.60 0.1
SES 30.62 358 eP 17 36.00 -0.5
FFC 35.36 7 eP 18 16.00 -1.5
1.1s 19.00nm 4.9mb
YKA 42.88 356 eP 19 18.10 -1.8
0.9s 2.90nm 4.0mb
INK 50.89 349 eP 20 22.50 -0.3
TTA 53.59 336 P 20 41.30 -1.9
1.0s 12.50nm 4.9mb
ZOBO 53.95 129 P 20 48.30 1.3
1.3s 10.65nm 4.7mb
Z 24s 0.45um 4.5MsZ
LR 39 24.00
IMA 54.50 339 P 20 48.00 -1.9
1.0s 5.00nm 4.5mb
MBC 56.78 357 eP 21 04.50 -1.6
SIV 59.16 123 iP 21 22.10 -1.4
BAO 69.69 116 eP 22 24.50 -7.8X
S.D. = 1.3 on 45 of 49 obs.

JUN 19, 1990 19h 07m 48.45 ± 0.24s
21.038 S ± 2.9km 178.855 W ± 3.2km
DEPTH = 612.2 ± 2.8 km
5.3mb (49 obs.)
FIJI ISLANDS REGION (181)
CENTROID, MOMENT TENSOR (HRV)

HOKKAIDO, JAPAN REGION (224)

Table with columns for station ID, time, pressure, depth, and velocity. Includes stations like AOMJ, OFUJ, YAMJ, NIJ, KAKJ, MAT, CHJJ, MTMJ, IIDJ, TSRJ, BJI, SSE, CHTO, FBA, TOA, GUN, DMN, INK, MBC, YKA, WB5, WRA, HFS, NAO, SIV, PGO, GT2, BMW, RVW, VLMM, LVP, TDH, MTMW, FL2, VBEM, OBH, CZM, ERK, CPW, HSR, JLK, VLL, STD, REMW, APW, YEL, ESD, CDFW, SOSW, TDL, VFP, APM, KOSW, LMW, GULW, CROR, ASR, VIPM, GLK, RVC.

Table with columns for station ID, time, pressure, depth, and velocity. Includes stations like FMW, GL2, GSM, RMW, JBO, MCW, RSW, RPW, YKA.

& JUN 20, 1990 12h 31m 21.31s
60.483 N 151.991 W
DEPTH = 73.1km
KENAI PENINSULA, ALASKA (14)
<AGS-P>

Table with columns for station ID, time, pressure, depth, and velocity. Includes stations like RED, NNL, SPU, CRP, CGLM, SLKM, NCG, CNPM, XLV, SUA, SEW, AUE, PMS, SKT, PWA, MCNL, PLRM, GHO, SML, GLI, SCM, HUR, VLZ, KTH, KLU, TOA, SDG, PAX.

* JUN 20, 1990 12h 41m 49.25±1.31s
42.606 N ± 9.9km 23.993 E ± 15.9km
DEPTH = 10.0km (geophysicist)

Table with columns for station ID, time, pressure, depth, and velocity. Includes stations like VAY, SKO, OHR, GZR, MLR, BZS.

JUN 20, 1990 12h 45m 16.61±1.18s
23.641 N ± 7.3km 121.784 E ± 9.7km
DEPTH = 37.1 ± 10.5 km
4.2mb (6 obs.)

Table with columns for station ID, time, pressure, depth, and velocity. Includes stations like TAIWAN (244), TWD, TWF1, TWC, TWC, TWC, TWC, TWC, TWC.

Table with columns for station ID, time, pressure, depth, and velocity. Includes stations like TWZ, ANP, QZH, SSE, Z, GZH, NJ2.

Table with columns for station ID, time, pressure, depth, and velocity. Includes stations like WHN, N, QIZ, GYA, N, E, XAN, TIY, Z, BJI, Z, CD2, HHC, Z, N, LZH, Z, CHTO, GTA, WB5, WRA, FBA, INK, MBC, YKA.

JUN 20, 1990 13h 52m 31.21±0.65s
39.221 N ± 6.6km 20.519 E ± 6.8km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
ML 3.6 (ATH).

Table with columns for station ID, time, pressure, depth, and velocity. Includes stations like KEK, VLS, OHR, LCI, ITM, VAY, ATH, SKO, VLI, MMB, SOI, VTS, RZN, SGO, PVL.

* JUN 20, 1990 14h 53m 19.70±2.96s
43.997 N ± 14.8km 128.144 W ± 19.4km
DEPTH = 10.0km (geophysicist)
3.2mb (1 obs.)

Table with columns for station ID, time, pressure, depth, and velocity. Includes stations like OFF COAST OF OREGON (30), NLO, ONR, BMW.

20d 18h

Table with columns for station ID, time, and magnitude. Includes stations like NIJ, MAT, KAKJ, MTMJ, CHJJ, IIDJ, TSRJ, MDJ, CN2, SNY, 8JI, WMO, CHTO, PKI, DMN, GKN, YKA, WBS, WRA, HFS, KVN, TNP, SOI, ZOBO, SIV, SUDAN, BCAA, LSZ, KRI, HLW, MBH, PRNI, BUL, CIR, SLR, WIN, PRY, SWZ, BBTk, 8LF, KIC, TIC.

Table with columns for station ID, time, and magnitude. Includes stations like LIC, Z, VAY, TDS, OHR, LKO, SKO, SDI, AZI, MAIO, MLR, ASS, QUE, ARV, VOY, SRO, LMR, FRF, LRG, FVI, SPC, BNI, SOTA, LPL, KRA, KHG, PRU, KSP, CAF, 8SF, LPO, GRF, SMF, LBF, MAF, AVF, TCF, SSF, LOR, MOX, CLL, LSF, DOU, LDF, LPF, FLN, KSH, GKN, NUR, DMN, PKI, HFS, Z, SUF.

Table with columns for station ID, time, and magnitude. Includes stations like SOD, WMO, KEV, GTA, HHC, BAO, SIV, VANUATU ISLANDS, PVC, DZW, RMO, QLP, CNB, BWA, CAN, WBS, ASPA, PERU, NNA, PT08, PT06, ZOBO, SIV, SOUTHERN NORWAY, ASK, BER, SUE, HYA, ODD1, KMY, BLS1, BLS2, MOL, NRA0, WESTERN IRAN.

and landslides in the Rasht-Qazvin-Zanjan area, Iran. Nearly all buildings were destroyed in the Rudbar-Manjil area. Substantial damage occurred as far away as Khalkhal and Now Shahr and slight damage occurred at Tehran. Felt in most of northwestern Iran, including Arak, Bakhtaran and Tabriz. Slight damage also occurred in southern Azerbaijan, USSR. Felt (VII) at Astra and Lenkoran; (VI) at Dzhibrail, Lerik, Massony and Yardyshny; (III) at Baku, USSR. Complex event, observed on broadband displacement seismograms.

FAULT PLANE SOLUTION: P-Waves NP1: Strike=288 Dip=88 Slip=-11 NP2: 18 79 -177 Principal Axes: T P1g=6 Azm=334 P 9 243

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

RADIATED ENERGY No. of sta: 8 Focal mech. F Energy 1.1±0.3*10**16 Nm

MOMENT TENSOR SOLUTION Dep 17 No. of sta: 12 Moment Tensor; Scale 10**20 Nm Mrr=0.42 Mtt=0.38 Mff=-0.80 Mrt=-0.59 Mrf=0.46 Mtf=0.39

Principal axes: T Val=0.99 P1g=47 Azm=183 N 0.17 35 321 P -1.17 22 67

Best Double Couple: Mo=1.1*10**20 NP1: Strike=202 Dip=38 Slip=156 NP2: 311 76 54

CENTROID. MOMENT TENSOR (HRV) Date Used: GDSN L.P.B.: 95, 22C M.W.: 25S, 62C Centroid Location: BUC1 Origin Time 21:00:31.1 0.2

Lat 36.95N 0.01 Lon 49.52E 0.02 Dep 15.0 FLX Half-duration 15.0 Moment Tensor; Scale 10**19 Nm Mrr=2.42 0.09 Mtt=6.99 0.08 Mff=-9.41 0.09 Mrt=-8.73 0.97 Mrf=-1.22 0.77 Mtf=6.40 0.06

Principal Axes: T Val=15.13 P1g=34 Azm=163 N -3.25 54 325 P -11.88 9 67 Best Double Couple: Mo=1.4*10**20 NP1: Strike=200 Dip=59 Slip=160 NP2: 300 73 32

Table with columns for station code, time, magnitude, depth, and distance. Includes stations like TAB, KER, BKR, MHI, GAZ, DHR, BRF, MJMA, BHL, QASM, ATZ, RYD, FAM, UOSK, ZNT, DSI, KAS, LFK.

Main data table with columns for station code, time, magnitude, depth, distance, and focal mechanism parameters. Includes stations like CSS, BBTk, PRNI, AYN, AFIF, PPCY, SIM, MBH, HOL, BADA, BCK, GPA, WAJH, DSH, KHL, HRT, IZI, KSL, GBZT, YLV, QUE, ITU, HLW, YER, BNT, EDC, DMK, TAI, PSN, KGT, TLB, SMG, CFR, EZN, JMB, ALN, PPE, RDO, CLI, ISR, APE, DIM, IAS, KDZ, VRI, BUC1, AKSR, PVL, AGRW, ABHA, AKRL, MLR, KMTA, SRAT, AGAL, RZN, PLD, PTT, DHJN, MTUR, OUR, OBN, Z, PGB, FRU, MMB, VAM, ATH, SRS, DRA, SOH, NEO, THE, KNT, KSH, VLI, VAY.

Table with columns for station code, time, magnitude, depth, distance, and focal mechanism parameters. Includes stations like LIT, GRG, AGG, DEV, ITM, FNA, SKO, N, BZS, CEI, OHR, VLS, UZH, IGT, BEO, PVY, IVA, KEK, PLE, ULC, TTT, NKY, BDV, HCY, SPC, BUD, NDI, LCI, KRA, PVL, AGRW, ABHA, AKRL, MLR, KMTA, SRAT, AGAL, RZN, PLD, PTT, DHJN, MTUR, OUR, OBN, Z, PGB, FRU, MMB, VAM, ATH, SRS, DRA, SOH, NEO, THE, KNT, KSH, VLI, VAY, ARO, TDS, GRI, ZST, SOP, SOI, ZAG, PTJ.

1.2s 250.00nm
TVO 154.80 46 PKP 20 18.30 15.4X
1.2s 340.00nm
S.D. = 1.2 on 352 of 568 obs.

% JUN 20, 1990 21h 24m 21.54± 0.98s
44.234 N ± 8.3km 8.244 E ± 8.2km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.5 (GEN).

Table with 4 columns: station code, time, value, error. Rows include FIN, ROB, PCP, IMI, ENR, STV.

? JUN 20, 1990 21h 30m 12.12± 1.36s
37.495 N ± 27.8km 48.792 E ± 11.7km
DEPTH = 10.0km (geophysicist)
4.7mb (13 obs.)
NORTHWESTERN IRAN (345)

Large table with 4 columns: station code, time, value, error. Rows include ALN, RDO, OUR, SRS, ATH, VAM, SOH, NEO, THE, KNT, VAY, VLI, LIT, GRG, AGG, ITM, FNA, OHR, VLS, IGT, KEK, SOI, DUI, SDI, PGF, HFS, Z, SBF, LPG, LPL, BNI, FRF, LOR, SMF, AVF, BGF, MAF, TCF, CAF, RJF, LFF, SSE.

JUN 20, 1990 21h 41m 32.48± 0.44s
37.705 N ± 12.3km 48.961 E ± 6.3km
DEPTH = 10.0km (geophysicist)
4.5mb (7 obs.)

NORTHWESTERN IRAN (345)

Table with 4 columns: station code, time, value, error. Rows include KER, MHI, QUE, MLR, OHR, SOI, DUI, SDI, PGF, GKN, HFS, Z, SBF, DMN, PKI, LPG, LPL, FRF, LMR, SMF, AVF, CAF.

* JUN 20, 1990 22h 04m 06.98± 0.74s
36.724 N ± 20.8km 49.731 E ± 9.0km
DEPTH = 10.0km (geophysicist)
4.6mb (17 obs.)
WESTERN IRAN (347)

Table with 4 columns: station code, time, value, error. Rows include NUR, SUF, CLL, SQT, GKN, DMN, PGF, SBF, HFS, Z, LPG, LPL, LBF, SMF, AVF, MAF, TCF, LFF, LDF, FLN, LPF, EKA, MBC.

0.5s 2.00nm 4.6mb
FRB 68.66 335 eP 15 13.00 1.0
S.D. = 0.8 on 22 of 23 obs.

* JUN 20, 1990 22h 20m 04.90± 0.61s
37.055 N ± 11.2km 49.226 E ± 9.5km
DEPTH = 10.0km (geophysicist)
4.6mb (3 obs.)
CASPIAN SEA (338)

Table with 4 columns: station code, time, value, error. Rows include KER, MHI, VRI, KRA, KSP, CLL, GKN, DMN, PKI, HFS, Z, NAO, LIC, MBC, FRB.

? JUN 20, 1990 22h 23m 42.68± 2.10s
37.001 N ± 19.9km 49.157 E ± 34.4km
DEPTH = 10.0km (geophysicist)
4.4mb (4 obs.)
CASPIAN SEA (338)

Table with 4 columns: station code, time, value, error. Rows include SQTA, HFS, Z, NAO, KIC, LIC, MBC.

* JUN 20, 1990 22h 54m 05.26± 0.91s
31.274 S ± 14.7km 68.474 W ± 19.2km
DEPTH = 110.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

Table with 4 columns: station code, time, value, error. Rows include RTLL, ZON, CFA, RTCV, RTBS, RTRS.

JUN 20, 1990 22h 58m 51.72± 0.38s
36.825 N ± 8.3km 49.473 E ± 5.0km
DEPTH = 18.5km (2 depth phases)
4.9mb (21 obs.)
WESTERN IRAN (347)

Table with 4 columns: station code, time, value, error. Rows include TAB, KER, MHI, MJMA, QASM, QYD, BBTK, PRNI, AFIF, MBH, HRT, QUE.

MBC 66.72 357 eP 44 18.50 0.8
 0.4s 1.00nm 4.4mb
 FRB 68.32 335 ePc 44 26.00 -1.9
 S.D. = 1.5 on 18 of 20 obs.

 JUN 20, 1990 23h 48m 44.84 ± 0.40s
 36.641 N ± 9.9km 49.830 E ± 4.9km
 DEPTH = 15.6km (3 depth phases)
 4.7mb (30 obs.) 5.1msz (1 obs.)
 WESTERN IRAN (347)

MHI 7.79 90 eP 50 40.00 -0.4
 0.8s 44.78nm 5.7mb X
 YLV 16.46 290 eP 52 39.00 2.3
 RDO 19.41 291 eP 53 12.90 -0.3
 VRI 19.61 305 ePc 53 15.50 0.1
 VAM 20.75 274 eP 53 26.80 -0.6
 KSH 20.76 74 P 53 29.00 1.4
 ATH 20.80 282 eP 53 27.50 -0.3
 VAY 21.66 291 eP 53 38.00 1.5
 ITM 22.29 280 eP 53 42.00 -0.9
 SKO 22.55 292 eP 53 48.50 3.1X
 OHR 22.98 290 eP 53 50.00 0.3
 KEK 23.75 287 eP 53 56.00 -1.2
 KRA 25.34 311 eP 54 12.50 0.2
 ZST 26.58 306 e(P) 54 26.00 2.2
 SOI 26.80 283 P 54 27.00 1.0
 DUI 27.76 291 P 54 35.00 0.3
 KSP 27.80 311 eP 54 35.70 0.7
 SDI 28.24 291 P 54 38.00 -1.1
 NUR 28.77 334 eP 54 43.00 -0.6
 ARV 28.87 295 P 54 45.00 0.3
 KHC 29.06 307 P 54 48.40 2.0
 ASS 29.07 294 P 54 49.50 2.9
 WMO 29.59 64 P 54 51.60 0.4
 PGD 29.76 296 P 54 56.00 3.1X
 SUF 29.91 338 iP 54 52.70 -1.1
 0.4s 3.10nm 4.5mb
 CLL 29.92 311 eP 54 53.00 -1.0
 SOTA 30.33 303 iPd 54 56.60 -1.3
 0.6s 24.30nm 5.2mb

GRF 30.68 307 eP 54 59.00 8km
 MDI 31.25 300 P 55 05.00 -0.8
 BOB 31.41 298 P 55 08.00 0.7
 PGF 31.78 293 eP 55 09.90 -0.7
 0.8s 16.55nm 5.0mb
 VAI 31.91 300 P 55 11.00 -0.6
 SBF 32.86 296 eP 55 19.80 -0.2
 0.8s 21.50nm 5.1mb
 HFS 32.91 327 eP 55 18.20 -1.9
 0.7s 5.60nm 4.6mb
 Z 20s 3.69um 5.1msz
 e 55 23.90 20km
 ePP 56 21.00

DOI 32.98 297 P 55 21.00 -0.1
 LPG 33.32 299 eP 55 24.30 0.0
 0.8s 13.45nm 4.9mb
 LPL 33.34 299 eP 55 24.20 -0.1
 0.6s 7.20nm 4.8mb
 BNI 33.38 298 P 55 24.00 -0.6
 SOD 33.49 344 eP 55 21.00 -4.1X
 HAU 33.67 304 eP 55 25.80 -1.2
 0.8s 8.05nm 4.7mb
 GBA 33.71 126 Pd 55 28.30 0.8
 0.9s 11.70nm 4.8mb
 WTS 33.84 311 eP 55 31.00 2.7
 1.0s 13.00nm 4.8mb
 MEM 34.14 308 P 55 27.80 -3.0X
 ENN 34.21 308 eP 55 34.50 3.0X
 1.0s 23.00nm 5.1mb
 NAO 34.48 327 P 55 31.70 -2.1
 0.6s 1.80nm 4.2mb
 DOU 34.98 307 Pc 55 40.50 2.4
 0.8s 8.30nm 4.7mb
 LBF 35.25 302 eP 55 39.80 -0.7
 0.8s 6.05nm 4.5mb
 LOR 35.33 302 eP 55 40.10 -1.1
 0.8s 7.40nm 4.6mb
 SMF 35.34 301 eP 55 40.80 -0.5
 0.7s 5.50nm 4.6mb
 KEV 35.40 347 eP 55 34.00 -7.5X
 SSF 35.57 302 eP 55 42.30 -0.9
 0.6s 2.70nm 4.3mb
 AVF 35.68 301 eP 55 43.20 -0.9
 0.7s 8.80nm 4.8mb

MAF 36.23 300 eP 55 48.60 -0.2
 0.8s 9.40nm 4.7mb
 TCF 36.48 301 eP 55 50.60 -0.3
 0.6s 5.40nm 4.6mb
 CAF 36.65 298 eP 55 52.00 -0.4
 0.6s 4.50nm 4.5mb
 LFF 37.59 298 eP 56 00.20 0.0
 0.6s 7.20nm 4.6mb
 LDF 38.01 304 eP 56 03.50 -0.2
 0.6s 12.65nm 4.9mb
 MFF 38.09 301 eP 56 03.80 -0.6
 0.8s 16.10nm 4.9mb
 FLN 38.24 305 eP 56 05.10 -0.5
 0.6s 10.80nm 4.8mb
 LPF 38.63 303 eP 56 08.50 -0.4
 0.7s 9.90nm 4.6mb
 EKA 40.15 315 Pd 56 23.70 2.2
 0.7s 4.40nm 4.3mb
 BCAA 43.04 229 ePd 56 46.00 0.4
 0.9s 18.00nm 4.8mb
 CD2 44.70 81 P 57 03.20 4.2X
 KMI 46.32 89 eP 57 13.00 0.9
 CHG 46.44 99 eP 57 12.00 -0.8
 XAN 47.61 75 eP 57 22.40 0.4
 GYA 48.87 85 eP 57 32.00 0.1
 KIC 58.07 253 (P) 58 40.00 0.2
 CIR 59.88 200 iPd 58 50.50 -1.7
 BUL 59.93 203 iPd 58 41.00 -11.7X
 ipP 58 46.80 19km
 MBC 67.18 357 eP 59 39.00 -0.6
 0.5s 7.00nm 5.1mb
 FRB 68.76 335 eP 59 49.00 -0.6
 YKA 80.41 353 eP 00 55.80 -0.8
 0.9s 2.20nm 4.2mb
 S.D. = 1.2 on 65 of 73 obs.

* JUN 20, 1990 23h 55m 46.87 ± 0.66s
 37.420 N ± 14.4km 50.006 E ± 9.2km
 DEPTH = 10.0km (geophysicist)
 4.4mb (3 obs.)
 CASPIAN SEA (338)

KER 3.86 218 eP 56 47.00 -0.7
 MHI 7.69 95 eP 57 42.00 0.3
 0.8s 44.78nm 5.7mb X
 eS 59 17.00
 OUE 15.81 112 eP 59 36.00 4.7X
 KHC 28.72 306 eP 01 51.50 5.3X
 CLL 29.53 310 eP 01 59.00 5.6X
 GKN 30.47 98 P 02 02.00 -0.2
 DMN 31.02 98 P 02 06.80 -0.4
 PKI 31.28 98 P 02 09.20 -0.3
 SBF 32.66 295 eP 02 19.10 -2.0
 0.6s 7.20nm 4.8mb
 LPL 33.09 298 eP 02 24.10 -0.9
 0.5s 2.20nm 4.3mb
 BNI 33.14 297 P 02 26.00 0.6
 NAI 40.40 201 eP 03 29.50 2.5
 CHTO 46.42 100 P 04 14.00 -1.6
 MBC 66.41 357 eP 06 40.00 2.4
 0.7s 1.00nm 4.1mb
 FRB 68.12 335 eP 06 49.00 0.4
 S.D. = 1.5 on 12 of 15 obs.

JUN 21, 1990 00h 12m 15.58 ± 0.64s
 42.800 N ± 5.5km 12.582 E ± 11.3km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)

ASS 0.28 12 Pc 12 21.00 -0.4
 eSg 12 25.00
 ARV 0.75 21 Pd 12 29.00 -1.2
 eSg 12 40.90
 CRE 0.95 331 P 12 35.00 1.3
 RMP 0.99 175 P 12 34.60 0.2
 eSg 12 49.00
 AZI 1.03 142 P 12 35.50 0.5
 eSg 12 50.50
 RDP 1.05 174 P 12 35.50 0.1
 RSM 1.13 355 P 12 39.00 2.3
 SFI 1.24 335 P 12 38.70 0.1
 PGD 1.24 330 P 12 38.50 -0.3
 eSg 12 56.50
 SDI 1.43 140 P 12 41.00 -0.6
 MME 1.95 316 P 12 47.30 -2.0
 S.D. = 1.3 on 11 of 11 obs.

JUN 21, 1990 00h 22m 33.47 ± 0.53s
 37.326 N ± 8.7km 49.415 E ± 7.8km
 DEPTH = 10.0km (geophysicist)
 4.6mb (11 obs.)
 CASPIAN SEA (338)

KER 3.51 213 eP 23 30.00 0.7
 OUE 16.22 111 eP 26 22.60 -0.5
 SDI 27.68 290 P 28 36.50 12.9X
 AZI 27.95 291 P 28 30.50 4.6X
 eSg 28 45.00
 AOU 27.96 292 P 28 24.20 -1.9
 ARV 28.29 294 Pd 28 24.80 -4.1X
 eSg 28 36.40
 KHC 28.39 306 eP 28 31.40 1.6
 ASS 28.49 293 P 28 17.10 -13.8X
 eSg 28 21.50
 RDP 28.50 290 P 28 31.60 0.7
 RMP 28.51 291 P 28 30.60 -0.4
 CRE 29.01 294 P 28 31.00 -4.5X
 eSg 28 46.50
 SFI 29.08 295 P 28 36.50 0.5
 eSg 28 54.00
 CLL 29.23 310 ePd 28 38.00 0.7
 0.9s 9.00nm 4.6mb
 SOTA 29.69 302 iPd 28 41.60 0.0
 0.6s 10.80nm 4.8mb
 PGF 31.21 292 eP 28 54.50 -0.6
 HFS 32.15 327 eP 29 03.10 0.0
 1.1s 9.00nm 4.6mb
 SBF 32.27 295 eP 29 04.90 0.5
 0.7s 11.00nm 4.9mb
 LPG 32.70 298 eP 29 08.70 0.3
 LPL 32.72 298 eP 29 08.70 0.3
 BNI 32.77 297 P 29 09.00 0.3
 AVF 35.04 300 eP 29 27.70 -0.5
 1.0s 9.00nm 4.6mb
 MAF 35.60 300 eP 29 32.90 -0.2
 0.7s 5.50nm 4.5mb
 CAF 36.04 297 eP 29 35.70 -1.1
 0.8s 4.05nm 4.3mb
 LFF 36.98 298 eP 29 43.70 -0.9
 0.6s 6.30nm 4.6mb
 LDF 37.35 304 eP 29 47.60 -0.1
 0.8s 10.75nm 4.7mb
 MFF 37.46 300 eP 29 48.40 -0.2
 0.7s 8.80nm 4.6mb
 FLN 37.58 304 eP 29 49.40 -0.2
 LPF 37.98 303 eP 29 52.40 -0.6
 BCAA 43.24 228 ePc 30 23.00 -13.7X
 1.0s 6.00nm
 MBC 66.48 357 eP 33 25.50 0.8
 0.7s 1.00nm 4.1mb
 FRB 68.00 335 eP 33 35.00 0.5
 S.D. = 0.8 on 25 of 31 obs.

* JUN 21, 1990 00h 35m 51.87 ± 0.93s
 37.462 N ± 7.6km 48.961 E ± 12.8km
 DEPTH = 10.0km (geophysicist)
 4.5mb (13 obs.)
 NORTHWESTERN IRAN (345)

TAB 2.17 287 eP 36 28.00 -0.7
 KER 3.45 206 eP 36 47.00 0.2
 CLL 28.86 310 ePd 41 54.00 1.6
 SUF 28.89 338 eP 41 53.00 0.4
 PGF 30.82 292 eP 42 09.70 -0.4
 HFS 31.84 327 eP 42 19.00 0.3
 0.5s 1.80nm 4.2mb
 SBF 31.89 295 eP 42 19.40 0.0
 0.6s 4.50nm 4.6mb
 LPG 32.32 298 eP 42 24.00 0.6
 0.6s 2.70nm 4.4mb
 LPL 32.33 298 eP 42 23.80 0.3
 0.6s 2.70nm 4.4mb
 BNI 32.38 297 P 42 24.50 0.7
 FRF 32.47 294 eP 42 24.20 -0.2
 0.5s 8.00nm 4.9mb
 HAU 32.65 303 eP 42 25.70 -0.2
 0.8s 5.35nm 4.5mb
 LOR 34.31 301 eP 42 40.00 -0.4
 SMF 34.33 300 eP 42 40.40 -0.1
 AVF 34.66 300 eP 42 43.10 -0.3
 0.7s 3.85nm 4.4mb
 MAF 35.22 299 eP 42 48.30 0.1
 0.7s 5.50nm 4.5mb
 TCF 35.47 299 eP 42 50.30 0.0

DMK 17.76 293 eP 13 00.00 0.1
PSN 17.85 299 iPc 13 02.00 1.0
TLB 18.21 302 ePc 13 07.00 1.6
SMG 18.29 280 eP 13 08.00 1.5
EZJ 18.65 287 iP 13 11.40 0.5
JMB 18.73 295 eP 13 14.00 2.2
ALN 18.93 290 eP 13 15.00 0.7
PPE 19.04 307 ePc 13 15.00 -0.6
RDO 19.33 290 iPd 13 19.00 -0.2
CLI 19.38 307 iPc 13 20.00 0.2
APE 19.39 278 eP 13 22.20 2.2
DIM 19.44 293 iPd 13 21.00 0.5
IAS 19.46 309 eP 13 18.00 -2.6X
ABHA 19.48 200 iPc 13 22.70 1.3
VRI 19.50 305 ePd 13 20.50 -0.7
AKSR 19.50 232 eP 13 22.00 0.7
KMTA 19.53 200 iPc 13 22.50 0.5
SRAT 19.57 199 iPc 13 22.70 0.2
AGRW 19.63 233 eP 13 23.00 0.3
AKRL 19.68 233 iPc 13 23.00 -0.3
PVL 19.77 297 iPd 13 24.00 0.0
AGAL 19.77 232 eP 13 25.00 0.8
MLR 19.90 303 iPd 13 26.00 0.4
RZN 20.00 292 ePd 13 26.00 -0.8
PLD 20.06 293 eP 13 46.00 18.9X
PTT 20.09 308 eP 13 27.50 0.0
MTUR 20.42 302 ePc 13 32.00 1.0
OUR 20.46 288 eP 13 31.30 -0.1
PGB 20.51 294 ePd 13 32.00 0.1
VAM 20.71 274 eP 13 33.50 -0.5
MMB 20.73 291 iPd 13 34.00 -0.2
ATH 20.74 281 eP 13 34.50 0.3
SRS 20.80 290 eP 13 35.00 0.1
SOH 20.96 289 eP 13 37.00 0.4
NEO 21.05 285 iPc 13 37.00 -0.5
VTS 21.21 294 eP 13 23.00 -16.3X
THE 21.25 289 eP 13 40.40 1.0

KNT 21.32 290 eP 13 41.10 0.9
VLI 21.50 278 eP 13 40.00 -2.0
VAY 21.58 290 iP 13 42.60 -0.2
1.1s 185.00nm 5.4mb

LIT 21.60 287 eP 13 45.30 -0.1
GRG 21.69 289 eP 13 44.10 0.2
AGG 21.75 284 eP 13 46.60 2.0
DEV 22.05 303 ePc 13 50.00 2.5
ITM 22.23 279 eP 13 50.00 0.6
FNA 22.46 289 eP 13 52.00 0.3
SKO 22.46 292 iP 13 51.70 0.1
1.0s 89.00nm 5.2mb
Z 17s 5.29um 5.0MsZ

VLS 23.17 282 eP 13 54.20 -0.7
IGT 23.28 286 eP 14 00.70 1.1
BEO 23.52 299 eP 14 02.00 0.1
KEK 23.68 286 eP 14 03.90 0.4
NDI 24.39 101 iPc 14 12.00 1.5
0.7s 71.92nm 5.4mb

PSZ 24.58 306 eS 18 40.00
SPC 24.74 309 iP 14 14.10 0.2
BUD 25.04 305 eP 14 18.00 1.4
LCI 25.07 288 P 14 09.00 -7.9X
KRA 25.22 311 iPd 14 18.30 0.0
0.7s 56.00nm 5.4mb
Z 14s 1.30um 4.6MsZ
E 14s 1.80um

SRO 25.58 305 iPd 14 22.70 1.0
BRT 25.63 289 P 14 21.00 -1.2
ARO 25.92 196 iP+ 14 28.80 3.6X
ORI 26.24 287 P 14 27.80 -0.1
RAC 26.29 310 eP 14 29.00 0.8

TDS 26.35 287 P 14 32.50 3.6X
GRI 26.36 285 P 14 29.30 0.2
ZST 26.46 306 iP 14 29.80 -0.1

SOP 26.71 305 iPd 14 32.40 0.3
SOI 26.74 283 P 14 32.00 -0.5

ZAG 26.78 300 eP 14 32.50 -0.3
PTJ 26.81 300 eP 14 33.00 -0.2
VKA 26.99 306 iPd 14 34.90 0.2
2.2s 246.00nm 5.5mb

SGO 27.08 289 P 14 35.00 -0.5
ATN 27.19 283 P 14 36.00 -0.6
VBY 27.25 299 iPc 14 38.30 1.2
BSS 27.45 289 P 14 39.00 0.1
DUI 27.67 291 Pc 14 42.00 0.9
KSP 27.68 311 iPd 14 41.20 0.2
1.3s 133.00nm 5.5mb

MEU 27.77 281 P 14 44.10 2.1
LJU 27.82 301 ePd 14 42.80 0.5
MNO 27.82 283 P 14 44.00 1.4
CEY 27.86 300 ePd 14 43.10 0.4
RFI 28.04 290 P 14 44.90 0.6
SDI 28.15 291 Pc 14 45.50 0.1
VOY 28.26 300 eP 14 46.30 -0.1
TRI 28.32 300 iPd 14 46.50 -0.2
1.5s 195.60nm 5.9mb

GIB 28.34 283 P 14 48.00 0.9
KMR 28.38 305 iP- 14 47.40 0.0

AZI 28.43 292 Pc 14 48.90 1.1
AQU 28.44 293 P 14 48.70 0.7
PRU 28.53 309 Pd 14 47.60 -1.0
Z 20s 1.40um 4.6MsZ
N 19s 1.40um
E 18s 1.30um

NUR 28.63 334 iP 14 49.00 -0.4
0.7s 53.40nm 5.4mb
ARV 28.78 295 P 14 51.40 0.4
KHC 28.95 307 iPd 14 52.30 -0.2
1.4s 58.50nm 5.2mb
RMP 28.98 292 P 14 54.00 1.2
ASS 28.98 294 P 14 53.80 0.9
FVI 29.09 301 P 14 53.80 0.2
RSM 29.14 296 P 14 52.70 -1.5
BHG 29.16 304 iPd 14 54.30 -0.1
0.8s 163.00nm 5.9mb
WET 29.40 307 eP 14 55.90 -0.6
1.2s 129.00nm 5.6mb
CRE 29.50 295 P 14 58.50 0.9
WMO 29.55 64 eP 14 58.50 0.5
Z 20s 1.40um 4.6MsZ
N 13s 1.30um
E 12s 1.70um

SFI 29.58 296 P 14 59.50 1.4
PGD 29.67 296 Pc 15 00.60 1.4
SUF 29.76 338 iP 14 59.10 -0.5
0.7s 66.50nm 5.6mb
CLL 29.80 311 iPd 15 00.00 -0.1
1.0s 145.00nm 5.8mb

FIR 30.01 296 e(S) 20 15.00
iS 20 02.00
SQTA 30.22 302 iPd 15 03.20 -0.8
0.6s 115.00nm 5.9mb

HOF 30.27 309 iPc 15 04.20 -0.1
FUR 30.29 304 eP 15 04.00 -0.5
OGA 30.31 302 iPd 15 04.50 -0.4
1.2s 164.00nm 5.8mb
MME 30.41 296 P 15 06.70 0.9
BDI 30.48 296 P 15 06.00 -0.3
MOX 30.50 309 iP 15 06.00 -0.3

PII 30.54 295 P 15 06.00 -0.6
GRF 30.57 307 eP 15 06.50 -0.4
0.9s 28.00nm 5.1mb
GKN 30.57 97 P 15 06.80 -0.5
SAL 30.57 299 P 15 07.10 0.2
OSS 30.90 301 ePd 15 10.00 -0.1
UPP 30.94 328 iP 15 08.60 -1.3
i 21 03.00

DMN 31.11 97 P 15 12.00 -0.2
MDI 31.15 299 P 15 11.50 -0.5
BOB 31.31 297 Pd 15 14.00 0.4
VDL 31.35 301 eP 15 14.30 0.2
PKI 31.37 97 P 15 14.20 -0.3
COP 31.48 319 eP 15 15.00 0.2
0.8s 38.81nm 5.0mb
SAX 31.49 302 ePd 15 14.50 -0.9
GUN 31.60 96 P 15 16.40 -0.2
PGF 31.69 293 P 15 16.50 -0.5
LLS 31.70 301 ePd 15 16.10 -1.0
TMA 31.75 300 eP 15 16.80 -0.7
CGL 31.79 287 P 15 18.50 0.6
VAI 31.81 300 Pd 15 16.70 -1.1
HYB 31.87 120 eP 15 18.50 -0.2
PCP 31.96 297 P 15 17.49 -1.7
SLE 32.11 303 eP 15 19.40 -1.1
CKI 32.15 297 P 15 18.70 -2.1
ZLA 32.16 303 eP 15 20.00 -0.9
FIN 32.20 296 P 15 19.43 -1.9
ORX 32.26 299 P 15 19.43 -3.3X
ORO 32.36 299 P 15 20.00 -2.8X
MMK 32.38 300 eP 15 22.00 -1.1
TNS 32.42 308 ePd 15 22.90 -0.3
FEL 32.44 303 P 15 22.00 -1.5
IMI 32.44 296 P 15 22.61 -0.8
ROB 32.44 297 P 15 22.51 -0.9
DIX 32.77 300 ePd 15 25.90 -0.6
HFS 32.77 327 eP 15 25.30 -0.7
0.9s 121.30nm 5.0mb
ENR 32.77 296 P 15 25.48 -0.8
SBF 32.77 296 eP 15 25.40 -0.9
GWF 32.80 305 P 15 25.00 -1.4
STV 32.84 297 P 15 25.38 -1.5
RSP 32.87 298 P 15 24.25 -2.9X
DOI 32.89 297 Pc 15 25.80 -1.5
TOUF 32.90 296 P 15 28.50 0.9
WLS 32.92 304 P 15 26.00 -1.6
LSD 32.94 299 P 15 26.92 -1.1
CDF 32.97 304 eP 15 25.60 -2.5
0.9s 29.50nm 5.2mb
PZZ 32.99 297 P 15 26.10 -2.2
EMS 33.10 300 eP 15 28.50 -0.8
CALN 33.17 296 P 15 30.00 0.1
RRL 33.21 298 P 15 29.79 -0.5
LOMF 33.21 302 P 15 29.00 -1.1
LPG 33.22 299 eP 15 29.30 -1.2
0.7s 3.85nm 4.4mb
LPL 33.24 299 iPc 15 29.10 -1.4
BSF 33.26 303 eP 15 28.20 -2.4
1.1s 46.40nm 5.3mb
BNI 33.28 298 P 15 29.60 -1.2
SOD 33.34 344 iP 15 32.10 1.2
FRF 33.36 295 eP 15 30.20 -1.1
1.1s 107.45nm 5.7mb
LMR 33.47 295 eP 15 30.80 -1.5
0.9s 24.55nm 5.1mb
HAU 33.57 303 eP 15 31.10 -2.0
1.0s 80.00nm 5.6mb
LRG 33.57 295 eP 15 31.90 -1.3
1.5s 182.80nm 5.8mb
WTS 33.72 311 eP 15 35.50 1.2
1.0s 94.00nm 5.7mb
e 15 40.50
GBA 33.82 126 Pd 15 35.80 0.2
0.8s 16.90nm 5.0mb
VITF 33.82 304 P 15 33.50 -1.8
WIT 33.95 312 eP 15 37.00 0.7
MEM 34.02 308 iPd 15 37.73 0.8
ENN 34.09 308 iPd 15 38.30 0.7
1.0s 147.00nm 5.9mb
NAO 34.34 327 P 15 39.00 -0.7
0.8s 35.80nm 5.3mb
DOU 34.87 307 P 15 45.00 0.7
1.0s 105.50nm 5.7mb
LSA 35.10 89 P 15 48.20 1.1
SNF 35.10 308 iPd 15 47.04 0.8
LBF 35.14 301 eP 15 45.10 -1.7
1.1s 65.95nm 5.4mb
LOR 35.23 302 eP 15 45.80 -1.6
1.1s 67.15nm 5.4mb
SMF 35.24 301 eP 15 46.10 -1.4
1.4s 137.25nm 5.6mb
KEV 35.25 346 iP 15 48.80 1.5
0.7s 12.00nm 4.9mb
PLDF 35.41 300 P 15 48.37 -0.7
KTK1 35.42 344 iP 15 49.90 1.1

MLR 19.95 302 eP 03 48.00 0.1
 e 14 30.00
 e 18 18.00
 HFS 32.66 327 eP 06 52.40 -0.4
 0.6s 4.40nm 4.6mb
 NAO 34.23 327 P 07 06.60 0.1
 0.7s 1.80nm 4.1mb
 MBC 66.74 357 eP 11 12.00 0.3
 0.5s 1.00nm 4.3mb
 S.D. = 0.3 on 6 of 7 obs.

* JUN 21, 1990 03h 10m 12.67±0.67s
 37.578 N ±13.0km 50.195 E ±8.6km
 DEPTH = 10.0km (geophysicist)
 4.3mb (4 obs.)

CASPIAN SEA (338)

TAB 3.10 280 eP 11 05.00 2.3X
 KER 4.08 219 eP 11 17.00 0.4
 MHI 7.56 97 eP 12 06.00 0.4
 eS 13 39.00
 KSP 27.42 310 ePc 15 39.40 -20.8X
 SOTA 30.09 301 iPc 16 22.50 -1.9
 0.5s 10.00nm 4.9mb
 GKN 30.35 98 P 16 26.40 -0.5
 DMN 30.90 98 P 16 31.60 -0.3
 PKI 31.15 98 P 16 34.20 0.0
 HFS 32.29 326 eP 16 44.40 1.0
 0.5s 3.20nm 4.5mb
 NAO 33.86 326 P 16 58.00 0.9
 0.6s 1.00nm 3.9mb
 MBC 66.26 357 eP 21 08.00 5.5X
 0.6s 1.00nm 4.2mb
 S.D. = 1.1 on 8 of 11 obs.

? JUN 21, 1990 03h 28m 48.15±4.44s
 32.684 S ±26.1km 71.760 W ±28.1km
 DEPTH = 33.0km (normal)

NEAR COAST OF CENTRAL CHILE (135)

ROCH 0.69 115 iP 29 02.20 0.5
 iS 29 11.50
 LCCH 0.80 169 iPc 29 03.60 0.6
 iS 29 13.70
 JACH 0.98 90 iP 29 05.60 -0.2
 iS 29 18.00
 PEL 1.01 117 iPd 29 06.00 -0.1
 iS 29 18.50
 TACH 1.19 145 iP 29 08.40 -0.1
 iS 29 22.50
 SAN 1.20 130 eP 29 09.00 0.3
 iS 29 23.00
 LNV 1.30 167 iPc 29 09.50 -0.6
 i 29 24.00
 PCH 1.40 132 iP 29 11.30 -0.4
 iS 29 27.50
 PCH 1.40 132 iP 29 11.50 -0.2
 i 29 28.50
 CHCH 1.55 144 iPc 29 14.00 0.2
 iS 29 32.00
 S.D. = 0.4 on 10 of 10 obs.

* JUN 21, 1990 03h 32m 54.68±0.63s
 46.002 N ±12.7km 152.085 E ±10.3km
 DEPTH = 33.0km (normal)
 4.7mb (17 obs.)

KURIL ISLANDS (221)

KUSJ 6.02 244 P 34 23.10 -0.6
 eS 35 28.70
 ASAJ 6.95 258 eP 34 40.40 3.7X
 MRRJ 8.68 250 eP 35 02.10 1.3
 OFUJ 10.33 232 P 35 19.60 -4.0X
 S 37 09.10
 MAT 14.06 233 eP 36 12.00 -1.6
 0.7s 6.16nm 4.4mb
 CHTO 51.25 256 iP 41 58.50 1.2
 1.0s 8.75nm 4.7mb
 YKA 51.95 36 eP 42 01.40 -0.7
 0.7s 1.50nm 4.1mb
 PKI 54.89 275 P 42 24.60 -0.1
 DMN 55.08 275 P 42 26.20 0.2
 GKN 55.16 276 P 42 26.60 0.1
 KVN 63.15 61 eP 43 22.50 0.8
 TNP 64.30 61 eP 43 30.00 0.8
 0.9s 11.33nm 5.0mb

FRB 65.99 18 ePc 43 37.80 -1.6
 HFS 68.91 339 eP 43 55.00 -2.8X
 0.5s 2.50nm 4.5mb
 NAO 68.98 341 P 43 48.90 -9.4X
 0.8s 2.30nm 4.3mb
 KSP 76.25 333 eP 44 40.80 -0.4
 CLL 76.85 335 iPd 44 44.20 -0.3
 0.9s 9.00nm 4.8mb
 MLR 77.26 324 eP 44 48.00 0.9
 PRU 77.54 333 eP 44 48.00 -0.4
 KHC 78.60 334 P 44 54.50 0.2
 GRF 78.81 335 ePc 44 55.80 0.4
 0.7s 10.00nm 4.9mb
 CDF 81.07 337 eP 45 07.20 -0.5
 0.7s 4.40nm 4.6mb
 HAU 81.70 338 eP 45 10.40 -0.4
 0.7s 5.50nm 4.7mb
 BSF 81.74 337 eP 45 10.60 -0.5
 LOR 83.02 339 eP 45 17.50 -0.2
 0.7s 5.50nm 4.8mb
 LBF 83.26 339 eP 45 18.80 -0.2
 0.8s 5.35nm 4.7mb
 SSF 83.30 339 eP 45 19.20 0.1
 1.0s 9.00nm 4.8mb
 AVF 83.59 339 eP 45 20.60 0.0
 0.8s 6.05nm 4.8mb
 SMF 83.61 339 eP 45 20.80 0.1
 0.8s 9.40nm 5.0mb
 LPL 83.88 336 eP 45 23.00 0.6
 MAF 84.32 339 eP 45 25.10 0.8
 0.8s 7.40nm 4.9mb
 LMR 85.94 336 eP 45 32.70 0.3
 0.8s 8.05nm 5.0mb
 S.D. = 0.7 on 28 of 32 obs.

JUN 21, 1990 03h 56m 11.23±0.55s
 50.739 N ±5.1km 129.922 W ±6.6km
 DEPTH = 10.0km (geophysicist)
 4.1mb (8 obs.)

VANCOUVER ISLAND REGION (25)

PHC 1.58 90 Pc 56 39.72 0.4
 S 57 01.19
 BBB 1.84 37 Pd 56 44.00 1.0
 EDB 1.99 115 P 56 43.47 -1.9
 ETB 2.57 121 P 56 51.29 -2.3
 GDR 2.66 110 P 56 53.81 -1.1
 CBB 3.00 102 P 56 59.44 -0.2
 BTB 3.11 112 P 56 59.74 -1.6
 OZB 3.37 120 P 57 02.88 -2.2
 MGB 3.80 115 P 57 09.89 -1.4
 OFK 4.58 125 P 57 21.58 -0.6
 STW 4.83 120 P 57 25.01 -0.7
 MCW 5.04 111 P 57 29.21 0.6
 OBH 5.25 128 P 57 30.93 -0.6
 BLN 5.30 118 P 57 32.47 0.1
 OHW 5.39 114 P 57 34.33 0.8
 HDW 5.46 122 P 57 34.49 -0.2
 MBW 5.56 108 P 57 36.58 0.5
 CMW 5.58 112 P 57 36.78 0.4
 JCW 5.80 113 P 57 39.01 -0.3
 RPW 5.93 110 P 57 41.18 0.0
 HTW 6.09 116 P 57 43.97 0.5
 RMW 6.26 118 P 57 45.96 0.1
 GSM 6.41 120 P 57 48.17 0.0
 RVC 6.48 123 P 57 49.11 0.1
 CZM 6.54 128 P 57 49.99 0.2
 FMW 6.64 122 P 57 51.06 -0.4
 KOSW 6.68 127 P 57 52.04 0.3
 LON 6.69 124 eP 57 51.00 -0.9
 ERK 6.71 128 P 57 52.16 -0.1
 TDL 6.74 128 P 57 53.33 0.6
 FL2 6.78 129 P 57 53.90 0.6
 PNT 6.79 98 P 57 53.00 -0.3
 NLW 6.80 109 P 57 53.21 -0.3
 STD 6.81 128 P 57 54.50 0.7
 SOSW 6.86 128 P 57 54.69 0.3
 TWW 6.97 118 P 57 56.96 1.1
 MTMW 6.97 130 P 57 56.77 0.9
 ETW 7.03 113 P 57 56.49 -0.2
 TBM 7.10 117 P 57 58.21 0.5
 ASR 7.19 126 P 57 59.18 0.1
 WTV 7.20 111 P 57 58.82 -0.3
 NAC 7.23 120 P 57 59.89 0.5
 EBG 7.27 118 P 58 00.71 0.7
 TDH 7.71 132 P 58 06.23 -0.1
 MDW 7.89 118 P 58 07.85 -0.8

WAH2 7.92 116 P 58 08.40 -0.7
 DPW 8.18 106 eP 58 12.00 -0.8
 NEW 8.69 102 eP 58 21.00 1.1
 1.0s 5.25nm 4.8mb
 LNOR 9.15 118 P 58 25.88 -0.4
 SES 12.01 84 eP 59 06.00 0.6
 KVN 14.36 140 e(P) 59 36.00 -0.6
 YKA 14.43 29 eP 59 35.70 -1.5
 0.6s 4.70nm 4.3mb
 TNP 15.54 140 eP 59 53.00 0.9
 0.8s 2.70nm 3.6mb
 BW06 16.03 112 eP 00 00.00 1.6
 FBA 16.99 333 eP 00 08.60 -1.5
 0.7s 7.27nm 3.9mb
 FFC 17.33 66 iPc 00 15.50 1.0
 0.8s 13.00nm 4.1mb
 MSU 17.52 127 eP 00 19.00 1.7
 INK 17.71 356 eP 00 19.00 -0.1
 TTA 18.61 321 eP 00 31.40 1.0
 RSSD 18.66 101 eP 00 32.80 1.5
 IMA 19.57 331 eP 00 40.90 -1.0
 ANMO 23.20 124 eP 01 20.00 0.8
 1.0s 4.38nm 4.0mb
 ALO 23.20 124 eP 01 20.00 0.8
 1.2s 6.64nm 4.1mb
 MBC 25.94 6 eP 01 46.00 1.2
 1.0s 8.00nm 4.4mb
 S.D. = 0.9 on 64 of 64 obs.

* JUN 21, 1990 04h 40m 26.22±1.60s
 37.508 N ±11.4km 49.630 E ±21.5km
 DEPTH = 10.0km (geophysicist)
 4.5mb (11 obs.)

CASPIAN SEA (338)

TAB 2.68 283 eP 41 12.00 1.7
 KER 3.76 214 eP 41 26.00 0.4
 MLR 19.40 302 eP 45 00.00 4.6X
 e 00 40.00
 PGF 31.30 292 eP 46 47.70 -0.9
 0.7s 6.60nm 4.6mb
 HFS 32.10 326 eP 46 57.10 1.8
 0.6s 2.20nm 4.3mb
 SBF 32.35 295 eP 46 57.40 -0.4
 0.6s 10.80nm 5.0mb
 LPG 32.77 298 eP 47 01.90 0.2
 0.6s 2.70nm 4.4mb
 LPL 32.78 298 eP 47 01.80 0.1
 0.5s 2.90nm 4.5mb
 BNI 32.84 297 P 47 02.00 -0.1
 FRF 32.94 294 eP 47 02.20 -0.6
 AVF 35.10 300 eP 47 20.70 -0.7
 0.8s 8.05nm 4.6mb
 MAF 35.66 299 eP 47 26.30 0.0
 0.9s 4.90nm 4.4mb
 CAF 36.11 297 eP 47 29.50 -0.6
 0.7s 3.30nm 4.3mb
 LFF 37.04 297 eP 47 37.50 -0.4
 0.6s 7.20nm 4.6mb
 LDF 37.39 303 eP 47 40.60 -0.2
 0.5s 5.10nm 4.5mb
 MFF 37.51 300 eP 47 40.60 -1.2
 FLN 37.62 304 eP 47 42.50 -0.2
 0.5s 5.85nm 4.6mb
 LPF 38.03 303 eP 47 45.80 -0.3
 FRB 67.91 335 eP 51 28.00 1.3
 S.D. = 0.9 on 18 of 19 obs.

& JUN 21, 1990 04h 49m 57.13s
 48.838 N 122.153 W
 DEPTH = 1.5km
 3.6mb (1 obs.)

WASHINGTON (29)

<SEA>. CL 3.6 (SEA). ML 3.2
 (PGC). Felt (III) at Acme and
 Deming. Also felt at Rockport
 and Four Corners. Felt mildly at
 Abbotsford, British Columbia.

MBW 0.18 108 P 50 01.53 0.9
 CMW 0.42 177 Pd 50 04.80 -0.6
 MCW 0.48 251 Pc 50 05.99 -0.7
 HNB 0.52 327 Pd 50 06.80 -0.7
 OHW 0.57 206 Pd 50 08.15 -0.4
 RPW 0.58 132 Pd 50 08.02 -0.6
 JCW 0.66 167 Pd 50 09.38 -1.0
 SNB 0.68 265 Pc 50 09.76 -0.9

OIZ 21.46 313 eP 11 02.80 0.7
 KGM 23.11 264 ePc 11 21.50 3.2X
 IPM 25.20 271 ePd 11 40.20 1.8
 0.9s 31.60nm 4.8mb
 WB5 25.70 162 eP 11 42.60 -0.4
 eS 16 13.00
 WRA 25.75 162 Pd 11 42.90 -0.5
 0.4s 22.40nm 5.0mb
 LOE 27.17 300 eP 11 56.00 -0.4
 OIS 28.31 153 iPd 12 06.50 -0.2
 0.5s 10.00nm 4.7mb
 NANU 29.10 201 iPd 12 14.30 0.6
 ASPA 29.17 166 iPd 12 14.10 -0.3
 0.6s 16.00nm 4.8mb
 CHG 30.16 300 eP 12 24.00 0.7
 WARB 30.73 179 eP 12 28.70 0.6
 MEKA 32.05 193 iPc 12 39.80 0.1
 0.3s 8.00nm 5.0mb
 XAN 33.35 333 P 12 50.20 -0.7
 CD2 33.60 323 eP 12 49.00 -4.2X
 TIY 35.20 341 eP 13 07.30 0.5
 BJI 36.33 347 eP 13 17.00 0.9
 SNY 37.02 357 eP 13 22.40 0.4
 LZH 37.44 329 Pc 13 24.00 -1.8
 CN2 38.92 359 eP 13 37.00 -0.9
 STK 39.20 159 eP 13 40.70 0.3
 1.0s 13.00nm 4.7mb
 MDJ 39.83 4 eP 13 47.00 1.6
 BRS 40.90 143 iPc 13 55.00 0.6
 i 14 11.00
 GUN 44.81 305 P 14 26.20 -0.4
 PKI 45.06 305 P 14 30.20 1.6
 DMN 45.32 305 P 14 28.00 -2.6
 GKN 45.86 305 P 14 34.00 -0.7
 GBA 48.97 284 Pc 14 57.90 -1.0
 0.5s 4.00nm 4.6mb
 NAI 89.61 269 iP 19 14.00 4.8X
 S.D. = 1.1 on 27 of 30 obs.

* JUN 21, 1990 10h 09m 46.33±0.72s
 37.358 N ±11.0km 49.671 E ±8.5km
 DEPTH = 10.0km (geophysicist)
 4.3mb (2 obs.)
 CASPIAN SEA (338)

TAB 2.74 286 eP 10 32.00 0.6
 KER 3.65 216 eP 10 44.00 -0.2
 MAIO 7.95 95 iPc 11 45.00 0.2
 0.7s 13.66nm 5.3mb X
 eS 13 20.00
 HFS 32.24 327 eP 16 16.10 -0.6
 0.9s 11.00nm 4.8mb
 NAO 33.82 326 P 16 30.20 -0.2
 0.7s 0.80nm 3.8mb
 INK 74.63 1 eP 21 27.00 0.1
 S.D. = 0.5 on 6 of 6 obs.

? JUN 21, 1990 10h 12m 06.45±3.09s
 34.430 S ±30.1km 70.810 W ±16.1km
 DEPTH = 80.0km (geophysicist)
 CHILE-ARGENTINA BORDER REGION (127)

CHCH 0.51 15 iPc 12 20.40 -0.1
 iS 12 32.70
 LNV 0.69 313 iPc 12 22.20 0.1
 iS 12 36.00
 TACH 0.78 352 iPc 12 23.40 0.2
 iS 12 38.50
 PCH 0.84 17 iPc 12 24.00 0.0
 iS 12 38.70
 LCCH 1.14 326 iPd 12 27.50 0.0
 iS 12 46.00
 PEL 1.29 5 iPc 12 29.40 0.0
 iS 12 48.50
 ROCH 1.46 353 ePd 12 31.50 -0.4
 e 12 51.50
 JACH 1.75 6 eP 12 36.00 0.3
 iS 12 58.80
 S.D. = 0.3 on 8 of 8 obs.

JUN 21, 1990 10h 12m 25.70±0.92s
 54.017 N ±6.0km 165.449 W ±5.4km
 DEPTH = 73.0 ± 7.6 km
 4.6mb (12 obs.)
 FOX ISLANDS, ALEUTIAN ISLANDS (9)
 Felt (IV) at Unalaska.

SDN 3.17 63 iPd 13 14.30 0.2
 ADK 7.12 257 ePc 14 09.20 0.0
 MCNL 8.02 45 eP 14 21.70 0.0
 CDD 8.18 48 eP 14 23.16 -0.7
 SVW 8.85 33 ePc 14 33.80 0.7
 RED 9.39 42 eP 14 40.55 0.0
 CNPM 9.55 49 eP 14 40.60 -2.0
 SPU 10.14 40 eP 14 50.36 -0.4
 CRP 10.16 39 eP 14 51.93 0.9
 TTA 10.20 25 eP 14 52.20 0.7
 CGLM 10.24 39 eP 14 52.12 0.0
 NCG 10.25 38 eP 14 53.37 1.2
 SLKM 10.49 46 eP 14 52.74 -2.6X
 SEW 10.62 49 eP 14 54.03 -3.0X
 SUA 10.82 41 eP 14 58.61 -1.3
 SKT 10.85 37 eP 15 00.58 0.3
 TTA 10.85 37 eP 15 00.58 0.3
 PMS 11.16 43 eP 15 01.70 -2.6X
 PMR 11.52 42 eP 15 05.50 -3.6X
 MID 11.79 55 eP 15 09.42 -3.3X
 TOA 12.98 44 eP 15 25.70 -2.8X
 IMA 13.41 21 eP 15 36.60 2.5
 FBA 14.06 32 eP 15 43.00 0.5
 PCA 14.93 56 eP 15 52.49 -1.4
 BCPM 15.21 57 eP 15 56.10 -1.2
 HQN 15.50 59 eP 15 59.88 -1.1
 INK 20.67 34 ePd 16 57.80 -3.4X
 YKA 27.37 52 eP 18 05.20 -0.2
 0.6s 2.80nm 4.0mb
 MBC 28.14 21 eP 18 12.00 -0.2
 0.5s 4.00nm 4.3mb
 NEW 30.37 81 eP 18 50.00 17.6X
 1.0s 3.75nm
 FHC 30.55 99 ePc 18 35.20 1.1
 LBFM 31.43 96 eP 18 53.00 11.0X
 WDC 31.53 97 ePc 18 43.30 0.6
 MIN 32.23 97 ePc 18 49.00 0.0
 ORV 32.80 98 ePc 18 53.50 -0.3
 SES 32.85 74 eP 18 56.00 1.9
 PCC 33.67 102 ePc 19 00.90 -0.4
 MHC 34.21 101 ePc 19 06.20 0.1
 GCC 34.21 102 ePc 19 05.90 -0.1
 CMB 34.46 99 ePc 19 08.60 0.4
 ePcP 21 40.70
 epPcP 22 01.00
 SAO 34.72 102 eP 19 09.90 -0.4
 PRS 35.06 102 ePc 19 13.50 0.3
 KVN 35.13 96 eP 19 14.50 0.5
 FRI 35.57 100 ePc 19 17.80 0.3
 ePcP 21 43.60
 epPcP 22 04.20
 PRI 35.60 102 ePc 19 18.70 0.7
 TNP 36.29 96 eP 19 23.90 0.1
 PLM 39.78 101 eP 19 53.00 0.0
 GOL 42.21 84 eP 20 12.50 -0.5
 FRB 46.25 38 ePd 20 44.10 -0.6
 SCH 52.64 46 eP 21 33.00 -0.9
 NAO 65.47 2 P 23 01.30 -1.1
 0.7s 3.00nm 4.3mb
 HFS 66.20 0 eP 23 05.70 -1.4
 0.4s 8.50nm 5.0mb
 LOR 78.68 7 eP 24 21.30 0.4
 0.6s 4.50nm 4.6mb
 SSF 78.86 8 eP 24 22.30 0.4
 0.6s 5.85nm 4.7mb
 LBF 78.97 7 eP 24 22.60 0.1
 0.6s 3.60nm 4.5mb
 AVF 79.12 8 eP 24 23.60 0.4
 0.5s 3.65nm 4.6mb
 SMF 79.30 7 eP 24 24.70 0.4
 0.4s 3.15nm 4.6mb
 LSF 79.50 9 eP 24 25.50 0.2
 0.7s 6.60nm 4.7mb
 TCF 79.52 9 eP 24 25.50 0.0
 0.6s 4.95nm 4.6mb
 WRA 89.88 235 Pc 25 16.40 -1.1
 0.6s 2.00nm 4.5mb
 BUL 144.51 337 iPKPd 31 51.50 -3.7X
 SWZ 152.04 339 iPKPd 32 00.00 -6.9X
 1.0s 16.00nm
 e 32 19.00
 S.D. = 0.9 on 50 of 61 obs.

? JUN 21, 1990 10h 21m 35.03±0.85s
 56.066 S ±48.5km 128.494 W ±15.7km
 DEPTH = 10.0km (geophysicist)
 5.0mb (3 obs.)
 SOUTH PACIFIC CORDILLERA (691)

LNV 44.47 85 iPc 29 48.50 0.7
 TACH 44.96 85 eP 29 52.00 0.2
 ROCH 45.42 84 eP 29 57.00 1.3
 PEL 45.48 85 iPc 29 56.90 1.0
 1.0s 40.00nm 5.3mb
 LPB 60.01 74 eP 31 44.00 -0.5
 ZOBO 60.21 74 P 31 45.00 -1.1
 1.1s 15.95nm 5.1mb
 SIV 64.29 80 iP 32 10.50 -2.2
 WRA 77.59 253 P 33 34.00 1.2
 0.8s 2.00nm 4.3mb
 WB5 77.63 253 eP 33 31.00 -1.2
 KVN 95.16 8 e(P) 35 00.00 0.7
 S.D. = 1.4 on 10 of 10 obs.

& JUN 21, 1990 10h 26m 07.50s
 40.298 N 124.565 W
 DEPTH = 6.0km
 NEAR COAST OF NORTHERN CALIF. (35)
 <BRK>. ML 2.8 (BRK).

FHC 0.67 41 ePc 26 20.80 -0.1
 iS 26 29.90
 WDC 1.57 79 ePd 26 33.70 -2.3
 e 26 58.90
 MIN 2.26 88 eP 26 43.50 -2.7
 ORV 2.47 106 eP 26 46.20 -2.8
 4 obs. associated

% JUN 21, 1990 10h 39m 39.53±0.43s
 41.796 N ± 4.5km 13.288 E ± 3.5km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN ITALY (390)

AZI 0.22 30 P 39 45.00 0.7
 eSg 39 48.50
 SDI 0.40 103 Pd 39 48.20 0.4
 eSg 39 54.70
 RDP 0.43 265 P 39 48.50 0.2
 eSg 39 55.50
 RMP 0.44 272 P 39 48.60 0.1
 eSg 39 56.10
 AQU 0.56 9 P 39 50.60 -0.4
 eSg 39 58.90
 DUI 0.89 98 P 39 56.50 -0.1
 ASS 1.36 340 P 40 04.70 0.2
 BSS 1.52 131 P 40 06.50 -0.3
 ARV 1.72 352 P 40 09.00 -0.7
 SGO 1.96 128 P 40 13.00 -0.2
 CRE 2.08 322 P 40 15.00 0.0
 SFI 2.37 334 P 40 19.00 0.0
 S.D. = 0.4 on 12 of 12 obs.

& JUN 21, 1990 10h 43m 20.79s
 62.873 N 143.943 W
 DEPTH = 2.8km
 CENTRAL ALASKA (1)
 <AGS-P>.

TMW 0.63 43 iP 43 32.34 -0.9
 PAX 0.71 279 eP 43 34.37 -0.5
 iS 43 44.30
 DOT 0.78 356 iP 43 35.66 -0.7
 iS 43 47.17
 SDG 0.82 246 iP 43 36.43 -0.6
 iS 43 47.80
 TOA 1.29 234 iP 43 45.17 -0.2
 iS 44 03.09
 DMW 1.43 327 eP 43 47.20 -0.5
 eS 44 07.88
 KLU 1.67 215 iP 43 50.41 -0.7
 eS 44 12.26
 SCM 1.89 238 eP 43 54.47 0.1
 BALM 1.99 157 eP 43 55.82 -0.1
 eS 44 21.07
 VLZ 2.08 214 eP 43 56.28 -0.7
 TGL 2.19 166 eP 43 58.59 -0.1
 VZW 2.20 215 eP 43 58.37 -0.4
 SML 2.31 244 eP 44 00.87 0.5
 DWY 2.35 58 P 43 59.00 -1.9
 MCK 2.41 293 eP 44 04.60 2.7
 CCB 2.47 318 eP 44 05.05 2.4
 GLI 2.50 218 eP 44 02.58 -0.4
 GHO 2.57 247 eP 44 05.25 1.1
 GLM 2.61 326 eP 44 04.73 0.0
 FBA 2.65 322 eP 44 05.75 0.5
 PLRM 2.75 244 eP 44 08.30 1.7

21d 10h

PWA 3.03 249 eP 44 13.14 2.5
 PMS 3.11 241 eP 44 14.61 2.9
 SUA 3.49 249 eP 44 21.33 4.1
 SKT 3.64 259 eP 44 22.01 2.8
 25 obs. associated

& JUN 21, 1990 10h 46m 49.00s
 33.160 N 115.630 W
 DEPTH = 1.0km
 SOUTHERN CALIFORNIA (43)
 <SPEC>. Foreshock. Held to
 mainshock hypocenter.

GLA 0.68 99 eP 47 01.60 -1.0
 PLM 1.05 281 P 47 07.90 -1.9
 PEC 1.47 300 e(P) 47 15.90 -0.8
 QSM 2.98 340 P 47 44.70 6.4
 NOP 2.99 352 P 47 44.40 5.8
 JON 3.30 353 P 47 50.60 7.7
 ABL 3.43 300 eP 47 59.50 14.6
 SPRG 3.53 358 P 47 55.00 8.8
 YMT3 3.68 350 P 47 58.00 9.7
 YMT6 3.74 350 P 47 59.30 10.0
 BCH 4.21 300 eP 48 04.30 8.5
 QCS 4.60 357 P 48 14.20 12.7
 TNP 5.08 346 e(P) 48 20.00 11.7
 MSU 6.03 27 e(P) 48 24.00 2.2
 KVN 6.21 342 e(P) 48 35.00 10.8
 ALO 7.82 74 e(P) 49 14.00 27.1
 16 obs. associated

& JUN 21, 1990 10h 47m 21.80s
 33.160 N 115.630 W
 DEPTH = 1.0km
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 3.9 (PAS), 4.0
 (BRK). Felt (III) at Brawley.
 Felt throughout the Imperial
 Valley and as far north as
 Banning.

HAY 0.55 359 iPc 47 32.60 -0.1
 IKP 0.65 218 eP 47 34.10 -0.7
 TPC 1.01 340 eP 47 40.00 -1.7
 PLM 1.05 281 eP 47 40.70 -1.9
 PEC 1.47 300 eP 47 49.00 -0.5
 ABL 3.43 300 P 48 15.00 -2.7
 FRI 5.08 320 eP 48 55.70 14.8
 PRI 5.11 307 eP 48 55.90 14.5
 MHC 6.45 312 eP 49 08.50 8.1
 BW06 10.73 25 eP 50 03.50 3.6
 1.0s 5.25nm 4.9mb X
 10 obs. associated

& JUN 21, 1990 10h 51m 15.00s
 33.160 N 115.640 W
 DEPTH = 1.0km
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 3.3 (PAS).

GLA 0.69 99 eP 51 28.00 -0.8
 CPBX 0.79 159 eP 51 31.40 0.6
 S 51 43.50
 BAR 0.99 241 eP 51 33.00 -1.6
 TPC 1.00 340 iPc 51 33.50 -1.4
 PLM 1.04 281 eP 51 33.20 -2.4
 CBX 1.21 226 ePn 51 36.90 -1.5
 S 51 53.70
 EMX 1.22 164 eP 51 38.60 0.2
 ENX 1.54 214 ePd 51 43.00 -0.7
 S 52 04.50
 PBX 1.69 213 eP 51 44.50 -1.2
 ECBX 1.76 163 eP 51 47.50 0.8
 ABL 3.42 301 eP 52 22.00 11.2
 11 obs. associated

& JUN 21, 1990 10h 58m 59.00s
 33.160 N 115.630 W
 DEPTH = 1.0km
 SOUTHERN CALIFORNIA (43)
 <SPEC>. ML 3.3 (PAS). Held to
 mainshock hypocenter.

GLA 0.68 99 eP 59 12.30 -0.3
 PLM 1.05 281 eP 59 18.30 -1.5
 TNP 5.08 346 e(P) 00 18.50 0.2
 3 obs. associated

& JUN 21, 1990 11h 03m 14.00s
 33.160 N 115.630 W
 DEPTH = 1.0km
 SOUTHERN CALIFORNIA (43)
 <SPEC>. ML 3.3 (PAS). Held to
 mainshock hypocenter.

GLA 0.68 99 eP 03 27.40 -0.2
 PLM 1.05 281 eP 03 33.00 -1.8
 2 obs. associated

& JUN 21, 1990 11h 08m 45.90s
 33.160 N 115.640 W
 DEPTH = 1.0km
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 3.6 (PAS)

HAY 0.55 0 iPc 08 56.80 0.0
 IKP 0.64 218 eP 08 58.30 -0.5
 GLA 0.69 99 iPc 08 59.00 -0.7
 CPBX 0.79 159 eP 09 00.80 -0.9
 S 09 13.80
 TPC 1.00 340 eP 09 04.20 -1.6
 PLM 1.04 281 eP 09 04.70 -1.8
 LMX 1.19 151 eP 09 07.00 -2.0
 CBX 1.21 226 ePn 09 07.60 -1.7
 S 09 24.45
 EMX 1.22 164 eP 09 08.00 -1.3
 S 09 25.60
 PEC 1.47 300 eP 09 10.80 -2.7
 ENX 1.54 214 ePd 09 13.10 -1.5
 S 09 34.00
 PBX 1.69 213 eP 09 15.40 -1.2
 S 09 39.10
 ECBX 1.76 163 eP 09 17.00 -0.6
 S 09 41.20
 ABL 3.42 301 eP 09 46.50 4.8
 BLP 4.20 291 e(P) 09 52.00 -0.5
 BCH 4.20 300 e(P) 09 50.50 -2.1
 TNP 5.08 346 eP 10 05.00 -0.2
 KVN 6.21 342 eP 10 18.50 -2.6
 ALO 7.83 74 e(P) 10 45.00 1.1
 BW06 10.73 25 iP 11 29.00 5.0
 1.0s 2.50nm 4.6mb X
 20 obs. associated

& JUN 21, 1990 11h 35m 29.00s
 33.160 N 115.630 W
 DEPTH = 1.0km
 SOUTHERN CALIFORNIA (43)
 <SPEC>. Held to mainshock
 hypocenter.

GLA 0.68 99 iPc 35 42.40 -0.2
 PLM 1.05 281 eP 35 47.80 -2.0
 2 obs. associated

& JUN 21, 1990 11h 36m 03.00s
 33.160 N 115.630 W
 DEPTH = 1.0km
 SOUTHERN CALIFORNIA (43)
 <SPEC>. ML 3.7 (PAS). Held to
 mainshock hypocenter.

GLA 0.68 99 iPc 36 16.40 -0.2
 PLM 1.05 281 eP 36 32.40 8.6
 ABL 3.43 300 eP 37 17.50 18.6
 BCH 4.21 300 eP 37 29.70 19.9
 4 obs. associated

JUN 21, 1990 12h 17m 27.54 ± 0.28s
 36.732 N ± 6.0km 49.407 E ± 3.8km
 DEPTH = 10.0km (geophysicist)
 5.3mb (23 obs.) 4.2MsZ (4 obs.)
 WESTERN IRAN (347)

TEH 1.88 121 iPd 18 05.50 5.3X
 TAB 2.79 299 iPd- 18 15.00 1.8
 KER 3.03 219 eP 18 24.00 7.5X
 MAIO 8.13 90 eP 19 29.00 0.4
 0.8s 29.28nm 5.6mb
 eS 21 05.00
 MJMA 11.40 199 eP 20 11.30 -2.2
 BHL 11.59 260 P 20 24.00 8.0X
 S 23 50.00
 QASM 11.73 207 eP 20 17.00 -1.0

UQSK 12.46 211 eP 20 26.00 -1.8
 BBTK 13.44 288 eP 20 44.00 3.1X
 e 22 08.00
 AFIF 13.68 205 eP 20 46.70 2.6
 BCK 15.04 278 eP 21 09.00 7.2X
 KHL 15.86 282 eP 21 14.00 1.5
 HRT 15.92 291 eP 21 16.90 3.7X
 KSL 15.97 274 eP 21 17.50 3.7X
 IZI 16.01 289 eP 21 19.40 5.0X
 GBZT 16.09 291 eP 21 18.00 2.7X
 YLV 16.11 290 iP 21 18.90 3.2X
 DMK 17.50 294 iP 21 36.00 2.8
 RDO 19.07 291 eP 21 53.30 0.9
 ISR 19.16 303 eP 22 05.00 11.4X
 CLI 19.17 308 eP 21 54.00 0.3
 VRI 19.28 305 ePc 21 56.50 1.4
 MLR 19.67 304 ePc 22 00.00 0.3
 CMP 20.22 303 ePd 22 06.00 0.7
 VAM 20.41 274 eP 22 07.50 0.2
 ATH 20.45 281 eP 22 08.50 0.8
 NEO 20.77 285 eP 22 10.00 -1.1
 KSH 21.07 74 P 22 14.80 0.6

N 11s 1.90um
 S 26 09.00
 VLI 21.20 278 eP 22 07.50 -8.0X
 ITM 21.94 279 eP 22 22.60 -0.4
 SKO 22.20 292 eP 22 26.00 0.5
 Z 20s 1.54um 4.4MsZ
 E 20s 1.54um

i 22 47.00
 iS 26 36.00
 LR 31 54.00
 BZS 22.63 302 eP 22 27.00 -2.7
 OHR 22.63 290 eP 22 27.70 -2.2
 2.0s 222.00nm 5.3mb
 e 22 48.70
 KEK 23.40 286 eP 22 38.00 0.7
 SPC 24.54 310 eP 22 49.00 0.5
 KRA 25.03 311 eP 22 52.40 -0.5
 BRT 25.35 289 P 22 57.50 1.4
 TDS 26.07 287 P 23 04.00 1.2
 ZST 26.25 306 eP 23 04.60 0.2
 SOI 26.45 283 P 23 02.50 -3.8X
 SGO 26.81 289 P 23 11.00 1.5
 BSS 27.18 289 P 23 15.00 2.1
 DUI 27.41 291 P 23 13.00 -2.2
 KSP 27.49 311 ePc 23 15.30 -0.4
 i 23 23.30

SDI 27.89 291 P 23 21.50 2.0
 AZI 28.16 292 P 23 22.00 0.1
 KHC 28.74 307 eP 23 26.20 -0.8
 e 23 33.00
 FVI 28.85 302 P 23 27.50 -0.5
 CRE 29.25 295 P 23 29.50 -2.3
 PGD 29.42 296 P 23 34.00 0.6
 CLL 29.61 311 eP 23 34.00 -0.8
 1.2s 16.00nm 4.7mb
 WMQ 29.85 64 P 23 37.50 0.3
 SOTA 30.00 303 iPd 23 37.90 -0.6
 0.5s 9.70nm 4.9mb

UPP 30.82 329 iP 23 41.80 -3.6X
 GKN 30.87 96 P 23 46.60 0.2
 1.0s 72.00nm 5.5mb
 MDI 30.91 300 P 23 44.00 -2.3
 BOB 31.07 298 P 23 52.50 4.6X
 DMN 31.41 96 P 23 52.40 1.1
 0.8s 59.00nm 5.5mb
 VAI 31.57 300 P 23 52.00 -0.2
 PKI 31.67 96 P 23 54.40 0.8
 1.4s 133.00nm 5.7mb
 GUN 31.90 95 P 23 56.80 1.1
 1.0s 68.00nm 5.5mb
 DOI 32.64 297 P 23 59.00 -2.7
 HFS 32.65 327 eP 23 59.80 -1.6
 1.0s 41.90nm 5.3mb
 Z 19s 0.24um 3.9MsZ
 LR 34 09.00

BNI 33.04 298 P 24 07.40 2.2
 GBA 34.04 125 P 24 18.00 4.1X
 0.7s 7.10nm 4.7mb
 NAO 34.22 327 P 24 12.90 -2.2
 0.9s 4.70nm 4.4mb
 KOD 36.59 129 eP 24 38.80 2.8
 GTA 39.36 70 eP 24 59.60 0.7
 EKA 39.85 315 Pc 25 01.40 -1.2
 0.9s 10.60nm 4.5mb
 BCAO 42.84 229 iPc 25 28.50 0.9

21d 21h

CHG 46.85 99 eP 39 39.40 -0.5
 BDT 47.77 100 eP 39 46.00 -1.0
 LKO 56.41 256 P 40 51.02 -0.9
 0.9s 11.50nm 4.9mb
 KIC 57.74 252 P 41 00.66 -0.6
 0.9s 15.00nm 5.0mb
 LIC 58.05 252 P 41 02.70 -0.7
 0.9s 12.50nm 5.0mb
 MBC 67.01 357 eP 42 02.50 0.2
 0.6s 2.00nm 4.5mb
 FRB 68.46 335 eP 42 11.00 -0.5
 S.D. = 1.3 on 20 of 23 obs.

JUN 21, 1990 22h 26m 01.36 ± 1.74s
 42.198 N ± 9.2km 45.607 E ± 5.7km
 DEPTH = 89.1 ± 19.3 km
 4.4mb (10 obs.)

EASTERN CAUCASUS (337)

TAB 4.16 172 eP 27 02.00 -1.9
 MAIO 12.27 114 eP 28 55.00 0.8
 MLR 14.56 290 eP 29 25.00 0.8
 PRNI 14.58 219 eP 29 26.00 1.6
 MBH 15.12 218 eP 29 22.00 -9.2X
 CMP 15.18 289 ePc 29 39.00 7.0X
 VAM 17.99 255 eP 30 06.50 -0.4
 VLI 18.32 260 eP 30 15.50 4.5X
 OHR 18.56 275 e(P) 30 13.20 -0.6
 ITM 18.88 262 eP 30 16.00 -1.3
 SPC 18.99 300 eP 30 16.80 -1.8
 KRA 19.38 303 eP 30 20.20 -2.3
 VLS 19.51 266 eP 30 25.50 1.5
 KEK 19.63 271 eP 30 27.00 1.8
 SRO 20.04 296 eP 30 29.70 0.3
 ZST 20.89 296 eP 30 38.40 0.3
 i 30 52.10
 VKA 21.42 296 e(P) 30 45.00 1.6
 i 30 49.80
 PTJ 21.57 290 eP 30 46.70 1.7
 KSP 21.83 303 eP 30 48.80 1.4
 NUR 22.35 332 eP 30 53.00 0.6
 PRU 22.78 301 eP 30 59.50 2.8X
 e 31 29.00
 DUI 23.12 279 P 31 03.50 3.3X
 BRG 23.30 303 eP 31 04.00 2.3
 1.7s 32.00nm 4.4mb
 e 31 21.20

KHC 23.31 298 eP 31 06.50 4.6X
 SUF 23.54 337 iP 31 03.20 -0.7
 0.6s 10.80nm 4.4mb
 SDI 23.58 280 P 31 04.50 -0.1
 FVI 23.76 292 P 31 05.50 -0.7
 AZI 23.80 280 P 31 13.50 6.8X
 ARV 23.90 284 P 31 09.50 1.8
 ASS 24.17 283 P 31 13.00 2.6
 CRE 24.60 285 P 31 21.00 6.5X
 SFI 24.63 286 P 31 20.00 5.4X
 UPP 24.65 325 iP 31 13.00 -1.6
 PGD 24.73 285 P 31 22.00 6.2X
 SQTA 24.83 293 iPd 31 17.40 0.8
 0.6s 19.50nm 4.7mb
 i 31 22.10
 i 31 26.60
 i 31 42.80
 GRF 24.89 299 e(P) 31 17.00 0.0
 SAL 25.38 290 P 31 27.00 5.4X
 HFS 26.48 324 eP 31 30.20 -1.4
 0.9s 11.30nm 4.4mb
 Z 16s 0.11um 3.5mszX
 LR 41 09.00

VAI 26.58 291 P 31 36.00 3.4X
 SOD 27.25 344 iP 31 37.30 -1.2
 i 31 42.80
 i 31 57.80
 NAO 28.06 324 P 31 43.80 -2.1
 0.9s 2.60nm 3.9mb
 BNI 28.14 289 P 31 41.50 -5.5X
 KEV 29.25 347 eP 31 56.00 -0.5
 e 32 24.00
 WMO 30.58 72 P 32 07.50 -1.1
 EKA 34.00 310 P 32 37.00 -1.1
 0.8s 4.60nm 4.4mb
 GKN 34.62 101 P 32 42.80 -1.1
 DMN 35.18 102 P 32 49.50 0.6
 PKI 35.42 101 P 32 50.60 -0.4
 HYB 37.40 121 eP 33 10.00 2.7
 GBA 39.62 126 Pc 33 29.00 3.2X

1.1s 9.50nm 4.6mb
 GTA 40.55 75 eP 33 35.00 1.6
 BCAO 44.68 220 iPc 34 04.50 -2.5
 0.8s 14.00nm 4.8mb
 HHC 48.26 68 eP 34 35.60 0.5
 XAN 49.46 78 P 34 44.00 -0.3
 TIY 50.24 72 eP 34 52.20 1.9
 CHG 50.59 100 eP 34 52.10 -1.0
 BDT 51.64 102 eP 35 04.00 3.0X
 GYA 51.76 87 P 35 07.40 5.4X
 DL2 56.04 66 eP 35 33.80 0.8
 LIC 57.27 246 (P) 35 40.00 -2.0
 MBC 61.45 356 eP 36 09.50 -0.5
 0.7s 3.00nm 4.5mb
 FRB 62.34 333 eP 36 16.00 -0.1
 BUL 63.98 198 eP 36 26.20 -1.3
 INK 69.82 360 eP 37 03.00 -0.4
 YKA 74.45 351 eP 37 31.50 0.5
 0.6s 2.00nm 4.2mb
 S.D. = 1.4 on 49 of 65 obs.

JUN 21, 1990 22h 46m 31.00 ± 1.07s
 26.985 N ± 6.0km 126.914 E ± 6.0km
 DEPTH = 139.7 ± 8.7 km
 5.0mb (28 obs.)

RYUKYU ISLANDS (238)

SSE 6.47 311 iPc 48 04.00 -1.1
 1.0s 210.00nm 5.4mb
 QZH 7.76 257 eP 48 23.20 0.7
 NJ2 8.65 308 Pd 48 32.50 -1.8
 1.2s 200.00nm 5.6mb
 WHN 11.58 291 eP 49 13.20 0.2
 1.5s 100.00nm 5.2mb
 E 10s 0.50um
 DL2 12.69 341 Pd 49 27.00 -0.4
 1.7s 300.00nm 5.5mb
 MAT 13.52 42 eP 49 41.00 2.7
 1.1s 27.85nm 4.6mb
 SNY 15.06 350 eP 49 59.00 1.4
 1.2s 100.00nm 5.0mb
 BJI 15.78 328 eP 50 07.50 0.8
 1.1s 120.00nm 5.1mb
 TIY 16.23 315 Pd 50 13.50 1.2
 1.1s 100.00nm 5.0mb
 S 53 08.50
 CN2 16.82 356 Pd 50 18.80 -0.6
 1.0s 100.00nm 5.1mb
 eS 53 26.00
 XAN 17.01 299 Pd 50 22.00 0.1
 OIZ 17.58 247 eP 50 30.80 1.9
 MDJ 17.73 6 eP 50 29.30 -1.1
 GYA 18.10 273 P 50 36.60 1.7
 HHC 18.76 321 P 50 41.80 -0.1
 1.2s 300.00nm 5.5mb
 BTO 19.49 318 P 50 48.50 -0.9
 N 13s 0.30um
 E 13s 0.30um
 CD2 20.63 286 eP 50 58.20 -2.9
 LZH 21.61 300 Pd 51 10.00 -1.0
 Z 15s 0.40um 3.9mszX
 PcP 55 08.00

GTA 25.74 306 iPd 51 48.80 -1.4
 0.6s 100.00nm 5.6mb
 Z 12s 0.50um 4.3mszX
 CHG 26.97 258 eP 52 02.10 0.6
 WMO 35.73 308 iPc 53 17.00 -0.9
 pP 53 44.50 121kmX
 GUN 36.31 281 P 53 24.60 1.3
 PKI 36.77 281 P 53 26.80 -0.3
 0.6s 20.00nm 5.1mb
 DMN 37.03 281 P 53 29.20 0.0
 0.6s 14.00nm 4.9mb
 GKN 37.38 282 P 53 31.80 -0.3
 NDI 43.73 284 eP 54 23.80 -0.2
 WB5 47.14 170 iPc 54 49.40 -1.6
 GBA 47.99 264 Pc 54 58.40 0.7
 0.9s 6.90nm 4.4mb
 OIS 48.83 164 iPc 55 02.90 -1.2
 0.8s 40.00nm 5.2mb
 KOD 49.40 260 eP 55 10.00 1.0
 ASPA 50.81 172 iPc 55 18.20 -0.9
 1.0s 27.00nm 5.0mb
 WARB 52.86 180 eP 55 34.00 -0.4
 MAIO 57.12 297 eP 56 06.00 0.8
 e 56 35.00
 FORR 57.52 179 eP 56 06.30 -1.4

TTA 60.49 31 ePd 56 26.90 -1.2
 IMA 61.38 27 ePd 56 32.90 -1.3
 0.9s 10.40nm 4.8mb
 PMR 63.81 32 ePd 56 48.00 -2.0
 TOA 65.11 31 ePd 56 57.70 -0.8
 INK 68.66 23 ePd 57 19.70 -0.9
 0.8s 31.00nm 5.2mb
 MBC 69.37 14 ePd 57 23.40 -1.5
 0.5s 9.00nm 4.9mb
 UPP 76.06 331 iP 58 03.50 -0.7
 i 58 35.70
 HFS 77.60 332 eP 58 11.50 -1.3
 0.9s 11.60nm 4.6mb
 Z 18s 0.08um 4.1msz
 LR 33 38.00
 VRI 77.73 315 ePc 58 14.50 0.7
 MLR 78.38 315 ePc 58 18.00 0.4
 e 17 40.00
 NAO 78.39 333 P 58 16.20 -0.9
 0.7s 5.20nm 4.4mb
 KRA 79.80 321 eP 58 24.70 -0.2
 RDO 80.62 311 eP 58 29.20 -0.2
 KSP 81.39 323 iP 58 33.30 0.1
 e 58 59.50
 VAY 82.51 313 eP 58 39.40 0.1
 BRG 82.61 324 iP 58 40.20 0.6
 PRU 82.79 323 eP 58 41.00 0.5
 CLL 82.86 325 iPd 58 40.90 0.1
 1.0s 14.00nm 4.8mb
 SKO 82.92 314 iP 58 42.00 0.6
 PNT 83.76 37 eP 58 47.00 1.5
 OHR 83.77 313 eP 58 45.50 -0.3
 KHC 83.79 323 P 58 46.50 0.8
 VAM 84.27 307 eP 58 48.30 0.0
 VLI 84.52 308 eP 58 48.00 -1.5
 GRF 84.72 324 iPd 58 51.50 1.2
 1.2s 33.00nm 5.1mb
 Z 20s 0.10um 4.2msz
 BHG 84.98 322 iPc 58 52.60 1.0
 ITM 84.99 309 iPd 58 51.20 -0.7
 KEK 85.14 312 eP 58 51.50 -1.1
 VLS 85.40 311 iPc 58 53.20 -0.8
 FUR 85.60 323 iPc 58 55.90 1.2
 FVI 85.68 321 P 58 54.50 -0.6
 WDC 86.91 46 ePc 59 03.50 2.2
 ARV 87.38 318 P 59 04.50 1.0
 TDS 87.43 314 P 59 04.50 0.7
 CDF 87.56 325 eP 59 04.30 0.0
 0.8s 6.70nm 4.7mb
 SFI 87.77 319 P 59 07.00 1.7
 ASS 87.79 318 P 59 06.00 0.5
 DOU 87.82 327 Pd 59 05.80 0.4
 PGD 87.88 319 P 59 08.00 1.9
 SDI 87.88 316 P 59 04.50 -1.5
 ORV 88.14 46 ePc 59 07.80 0.6
 FFC 88.44 26 eP 59 08.00 -0.3
 0.6s 11.00nm 5.1mb
 SOI 88.49 312 P 59 09.00 0.2
 FRB 88.75 7 eP 59 08.00 -1.6
 ORD 88.94 322 P 59 10.50 -0.5
 LPL 89.68 323 eP 59 14.70 0.0
 0.6s 3.60nm 4.6mb
 LPG 89.69 323 eP 59 15.00 0.2
 0.7s 6.60nm 4.8mb
 CMB 89.71 47 ePc 59 15.90 1.2
 LRM 89.73 37 eP 59 17.50 2.6
 PGF 90.27 319 eP 59 16.60 -0.6
 0.8s 13.45nm 5.1mb
 LKO 121.35 302 PKP 05 11.00 1.2
 0.8s 4.50nm
 KIC 122.67 298 (PKP) 05 13.00 0.7
 S.D. = 1.1 on 86 of 86 obs.

? JUN 21, 1990 23h 13m 07.88 ± 1.03s
 37.286 N ± 13.0km 49.642 E ± 10.6km
 DEPTH = 10.0km (geophysicist)
 4.5mb (1 obs.)

CASPIAN SEA (338)

TEH 2.09 137 eP 13 43.00 -0.5
 TAB 2.74 288 eP 13 57.00 4.1X
 KER 3.58 216 eP 14 05.00 0.3
 MAIO 7.97 94 eP 15 07.00 0.4
 HFS 32.29 327 eP 19 38.40 -0.2
 0.7s 4.60nm 4.5mb
 S.D. = 0.8 on 4 of 5 obs.

* JUN 22, 1990 00h 58m 30.80± 1.41s
 35.877 N ±16.0km 23.345 E ±13.3km
 DEPTH = 10.0km (geophysicist)
 CRETE (370)
 ML 3.4 (ATH).
 VAM 0.84 124 ePn 58 47.00 0.0
 VLI 0.90 339 iPnc 58 47.70 -0.4
 ITM 1.73 319 ePb 59 03.20 2.1
 ATH 2.11 8 ePb 59 10.00 3.4X
 APE 2.13 55 ePn 59 06.70 -0.2
 VLS 3.18 317 ePn 59 21.20 -0.7
 NEO 3.42 358 ePn 59 26.00 0.7
 KEK 4.75 325 ePn 59 42.50 -1.6
 S.D. = 1.4 on 7 of 8 obs.

% JUN 22, 1990 01h 51m 26.86± 0.58s
 47.073 N ± 6.9km 0.923 E ± 5.9km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 3.0 (LDG).

MFF 0.87 238 Pg 51 43.40 -0.2
 Sg 51 55.10
 Sn 51 57.40
 LSF 0.92 153 Pg 51 45.60 1.1
 Sn 51 57.80
 TCF 1.18 131 Pn 51 50.30 1.3
 Pg 51 50.90
 Sg 52 06.20
 MAF 1.42 126 Pn 51 52.80 0.1
 Pg 51 55.10
 Sg 52 13.40
 BGF 1.42 111 Pn 51 52.30 -0.4
 Pg 51 54.40
 Sg 52 11.80
 LPF 1.64 307 Pg 51 57.10 1.3
 Sg 52 18.20
 LDF 1.68 336 Pg 51 58.00 1.6
 Sg 52 18.60
 AVF 1.69 99 Pn 51 56.80 0.3
 Sg 52 20.40
 SSF 1.77 89 Pn 51 58.00 0.3
 Pg 52 00.30
 Sg 52 23.50
 GRR 1.78 318 Pn 51 55.60 -2.3
 Pg 51 59.30
 Sg 52 21.70
 RJF 1.82 167 Pn 51 58.60 0.2
 Pg 52 01.90
 Sg 52 24.50
 FLN 1.94 331 Pg 52 02.20 2.1X
 Sg 52 26.60
 LOR 2.01 83 Pn 52 00.80 -0.5
 Pg 52 04.40
 Sg 52 31.00
 SMF 2.05 101 Pn 52 01.80 0.0
 Pg 52 05.40
 Sg 52 31.40
 LBF 2.09 91 Pn 52 01.30 -1.1
 Pg 52 07.00
 Sg 52 32.80
 LFF 2.14 183 Pg 52 08.70 5.7X
 Sg 52 35.80
 CAF 2.29 159 Pn 52 03.50 -1.8
 Pg 52 11.60
 Sg 52 40.40
 LPO 2.40 175 Pg 52 13.00 6.2X
 Sg 52 44.20
 EPF 4.06 186 Pn 52 27.00 -3.4X
 Sn 53 13.30
 Sg 53 36.80
 S.D. = 1.2 on 15 of 19 obs.

& JUN 22, 1990 02h 06m 46.62s
 60.028 N 153.415 W
 DEPTH = 177.2km
 SOUTHERN ALASKA (2)
 <AGS-P>.

RED 0.51 39 iP 07 10.52 0.6
 AUE 0.67 178 iP 07 11.26 -0.9
 RDT 0.74 42 iP 07 11.94 -0.7
 >NNL 1.06 88 eP 07 15.87 1.1
 CDD 1.11 186 iP 07 14.02 -1.2
 CNPM 1.21 114 iP 07 16.26 0.2
 eS 07 37.65

BRLK 1.30 101 eP 07 17.33 0.5
 SPU 1.34 30 eP 07 16.89 -0.3
 CRP 1.39 26 eP 07 17.66 -0.2
 SLKM 1.66 72 eP 07 20.22 -0.1
 SUA 1.95 41 eP 07 23.48 0.1
 eS 07 50.49
 SEW 1.99 86 eP 07 24.10 0.4
 SKT 2.16 24 eP 07 25.84 0.1
 PMS 2.26 56 eP 07 26.44 -0.4
 SML 3.06 52 eP 07 35.45 -0.9
 GLI 3.25 72 eP 07 38.85 0.2
 VZW 3.54 70 eP 07 42.12 -0.3
 VLZ 3.67 69 eP 07 43.98 0.1
 KTH 3.73 17 eP 07 44.70 -0.1
 KLU 3.96 65 eP 07 47.84 0.1
 20 obs. associated

JUN 22, 1990 03h 10m 27.59± 0.82s
 34.156 N ±10.2km 26.686 E ± 6.5km
 DEPTH = 68.0 ± 20.8 km
 3.9mb (1 obs.)

CRETE (370)
 MD 4.1 (HLW).

VAM 2.40 302 eP 11 07.40 2.1
 APE 3.05 342 eP 11 15.50 0.9
 KSL 3.08 50 eP 11 15.00 0.2
 SMG 3.55 2 eP 11 37.00 15.6X
 CIN 3.62 18 eP 11 21.00 -1.4
 VLI 3.99 311 eP 11 27.00 -0.6
 BCK 4.57 43 ePn 11 34.50 -1.4
 ITM 4.91 309 eP 11 40.50 -0.1
 CSS 5.54 80 eP 11 50.00 0.6
 eSn 12 48.50
 LFK 5.75 77 ePn 11 54.20 1.8
 KOT 6.07 133 ePn 11 56.50 -0.2
 eSn 13 02.00
 VLS 6.36 311 eP 12 02.40 1.7
 DSI 7.76 107 eP 12 19.00 -1.1
 eS 13 41.00
 KEK 7.82 317 eP 12 20.00 -1.0
 PRNI 8.00 116 eP 12 23.00 -0.5
 MBH 8.22 120 eP 12 27.00 0.5
 SOI 9.45 297 P 12 41.50 -1.8
 ATN 9.91 297 P 12 43.00 -6.7X
 TDS 9.94 307 P 12 48.90 -1.1
 HFS 27.35 346 eP 16 08.90 1.1
 0.5s 1.70nm 3.9mb
 S.D. = 1.3 on 18 of 20 obs.

JUN 22, 1990 03h 24m 03.00± 0.44s
 40.127 N ± 4.0km 21.201 E ± 4.6km
 DEPTH = 10.0km (geophysicist)

GREECE (364)
 ML 2.5 (THE).

FNA 0.67 11 ePgc 24 15.60 -0.8
 eSg 24 25.60
 IGT 0.89 229 ePgd 24 19.20 -0.9
 eSg 24 33.20
 LIT 0.99 91 ePg 24 20.80 -1.0
 eSg 24 35.80
 OHR 1.03 343 iPg 24 22.90 0.4
 iSg 24 37.90
 Lg 24 39.40
 KEK 1.15 249 eP 24 24.40 -0.2
 GRG 1.23 47 ePbc 24 26.20 0.2
 eSb 24 43.60
 AGG 1.41 141 ePbc 24 28.20 -0.5
 eSb 24 48.50
 THE 1.44 69 ePb 24 29.00 -0.1
 eSb 24 49.90
 VAY 1.58 41 ePn 24 31.50 0.4
 KNT 1.65 51 ePb 24 32.20 0.0
 NEO 1.76 117 eP 24 33.00 -0.8
 SOH 1.78 66 ePb 24 34.60 0.5
 SKO 1.85 6 iPn 24 35.50 0.4
 iSn 25 00.00
 iSg 25 03.50
 Lg 25 05.00
 VLS 2.00 194 eP 24 15.30 -22.0X
 ITM 3.00 169 eP 24 53.00 1.6
 VLI 3.67 158 ePd 25 01.70 0.7
 S.D. = 0.8 on 15 of 16 obs.

* JUN 22, 1990 03h 32m 48.14± 0.63s
 37.078 N ±19.3km 49.730 E ±11.3km

DEPTH = 10.0km (geophysicist)
 4.7mb (5 obs.)
 CASPIAN SEA (338)

TEH 1.89 135 iPd 33 20.80 -0.1
 TAB 2.88 291 eP 33 36.00 1.0
 KER 3.46 219 eP 33 47.00 3.8X
 MAIO 7.88 93 eP 34 46.00 0.3
 eS 36 22.00
 HFS 32.50 327 eP 39 20.80 0.1
 0.5s 1.50nm 4.2mb
 LDF 37.70 304 eP 40 05.50 0.2
 0.8s 9.40nm 4.6mb
 FLN 37.93 304 eP 40 06.70 -0.5
 0.8s 16.10nm 4.8mb
 GRR 38.19 304 eP 40 09.40 0.0
 0.4s 9.15nm 4.9mb
 LPF 38.33 303 eP 40 09.50 -1.0
 0.8s 13.45nm 4.7mb
 S.D. = 0.7 on 8 of 9 obs.

& JUN 22, 1990 05h 14m 04.90s
 60.454 N 143.181 W
 DEPTH = 8.5km
 SOUTHERN ALASKA (2)
 <AGS-P>.

TGL 0.35 30 iP 14 12.12 0.0
 iS 14 18.27
 BALM 0.71 35 iP 14 18.01 -1.2
 eS 14 28.75
 PCA 1.50 103 iP 14 30.45 -1.7
 eS 14 49.83
 VLZ 1.69 295 eP 14 32.72 -2.0
 KLU 1.69 309 iP 14 33.26 -1.7
 eS 14 56.34
 VZW 1.76 292 eP 14 33.63 -2.3
 eS 14 57.36
 YKU 1.96 116 eP 14 37.06 -1.5
 GLI 1.97 284 P 14 36.29 -2.6
 TOA 2.20 320 eP 14 41.78 -0.4
 SDG 2.37 332 eP 14 43.72 -0.9
 SCM 2.44 306 eP 14 44.58 -1.1
 PAX 2.75 338 eP 14 48.71 -1.4
 HYT 2.82 80 P 14 53.40 2.2
 SML 2.84 301 eP 14 50.35 -1.1
 14 obs. associated

& JUN 22, 1990 05h 19m 18.45s
 38.952 N 111.425 W
 DEPTH = 0.4km
 UTAH (478)
 <SLC-P>. CL 2.9 (SLC).

MSU 0.73 233 eP 19 32.50 -0.6
 DAU 1.46 5 eP 19 45.50 -0.9
 DUG 1.64 320 eP 19 49.50 0.7
 3 obs. associated

JUN 22, 1990 05h 57m 29.27± 1.05s
 41.813 N ± 9.2km 22.727 E ± 6.8km
 DEPTH = 5.0km (geophysicist)
 YUGOSLAVIA (383)
 ML 2.3 (THE).

KNT 0.66 169 ePgc 57 41.80 -0.7
 iSg 57 51.80
 MMB 0.78 106 iPgc 57 43.00 -2.0
 GRG 0.89 196 ePgd 57 46.60 -0.2
 eSg 57 58.90
 SRS 0.95 137 ePgd 57 47.90 0.0
 iSg 58 01.10
 SKO 0.97 280 ePg 57 47.00 -1.3
 iSg 58 05.00
 SOH 1.10 154 ePg 57 49.90 -0.5
 eSg 58 06.10
 THE 1.19 171 iPb 57 51.70 -0.3
 FNA 1.45 225 ePb 57 57.40 1.2
 RZN 1.49 94 iPd 57 56.00 -0.9
 OHR 1.61 245 ePn 57 01.20 -57.3X
 LIT 1.72 186 ePb 58 01.00 0.9
 OUR 1.76 147 ePb 58 01.80 1.3
 eSb 58 25.60
 DIM 2.11 83 eP 58 08.00 2.4
 S.D. = 1.4 on 12 of 13 obs.

* JUN 22, 1990 06h 01m 37.34± 0.89s

22d 06h

19.310 S ± 8.7km 70.077 W ±11.5km
DEPTH = 128.8 ± 47.7 km
4.5mb (1 obs.)

NEAR COAST OF NORTHERN CHILE (122)

Table with columns for station code, depth, time, and values. Includes stations ARE, LPB, ZOBO, CCH, ANT, PT03, PT06, SIV, PT08, NNA.

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

JUN 22, 1990 06h 07m 50.10 ± 0.44s
37.257 N ± 10.7km 48.854 E ± 5.8km
DEPTH = 10.0km (geophysicist)
4.6mb (14 obs.) 4.6mSz (1 obs.)

NORTHWESTERN IRAN (345)

Table with columns for station code, depth, time, and values. Includes stations TAB, TEH, KER, MAIO, DSI, BBTk, PRNI, MBH, DMK, VRI, MLR, CMP, KSH, SKO, OHR, SPC, KRA, NDI, ZST, DUI, SDI, KHC, FVI, PGD, CLL, WMO, SBF, HFS, DOI, LPG, LPL, BNI, NAO, SMF, AVF, GBA, KOD, GTA, BCAA, CD2, XAN, TIY.

Table with columns for station code, depth, time, and values. Includes stations GYA, KIC, SSE, MBC, FRB, YKA.

* JUN 22, 1990 06h 21m 51.51 ± 0.47s
36.827 N ± 13.7km 49.359 E ± 6.5km
DEPTH = 10.0km (geophysicist)
4.9mb (6 obs.)

WESTERN IRAN (347)

Table with columns for station code, depth, time, and values. Includes stations TEH, TAB, MAIO, MLR, OHR, NDI, GKN, DMN, PKI, GUN, HFS, BCAA, CHG, KIC, LIC, MBC, FRB.

* JUN 22, 1990 07h 13m 30.55 ± 1.24s
17.442 N ± 8.9km 61.137 W ± 11.1km
DEPTH = 33.0km (normol)
4.0mb (1 obs.)

LEEWARD ISLANDS (92)

Table with columns for station code, depth, time, and values. Includes stations CPB, BPA, SEG, SFG, MGH, NEV, PAG, SKI, BBL, MDN, DPMT, FDF, MVM, BIM, YKA.

* JUN 22, 1990 07h 22m 28.34 ± 1.38s
51.235 N ± 14.7km 15.699 E ± 6.8km
DEPTH = 5.0km (geophysicist)

POLAND (548)

Table with columns for station code, depth, time, and values. Includes stations KSP, BRG.

Table with columns for station code, depth, time, and values. Includes stations PRU, CLL, KHC, HOF, MOX, WET, KRA, VKA, ZST, GRF, SPC, FVI, VOY.

S.D. = 1.1 on 11 of 15 obs.

& JUN 22, 1990 07h 35m 48.50s
59.913 N 153.260 W
DEPTH = 122.4km
3.4mb (2 obs.)

SOUTHERN ALASKA (2)

Table with columns for station code, depth, time, and values. Includes stations AUL, AUE, RED, RDT, XLV, MCNL, NNL, CDD, CNPM, SPU, CRP, CGLM, NCG, SLKM, SVW, SEW, SKT, PMS, PWA, PMR, GHO, SML, GLI, SCM, VZV, VLZ, KLU, TOA, SDG, PAX, WRH, TGL, CCB, BALM, FBA, IMA, YKA, MBC.

22d 12h

GUD 85.04 44 eP 01 12.00 1.0	MTMJ 151.00 311 PKP 08 28.10 6.0X	BAO 105.61 262 e(PKP)14 31.00 -6.4X
BLF 85.10 119 iPc 01 12.00 0.3	IJDJ 151.43 309 ePKP 08 29.30 6.6X	S.D. = 1.0 on 6 of 7 obs.
0.9s 46.15nm 5.4mb	TRT 152.77 184 ePKPd 08 32.60 7.5X	?
i 01 40.00 107km	CN2 153.00 336 ePKP 08 31.20 6.6X	JUN 22, 1990 15h 04m 37.98 ± 2.59s
EVIA 85.12 46 e(P) 01 12.00 0.6	SNY 155.40 337 iPKPc 08 30.40 2.5X	5.738 S ± 32.0km 146.645 E ± 17.9km
MAW 86.16 163 iP 01 17.60 1.6	GTA 158.12 23 PKP 08 32.80 1.1	DEPTH = 230.1 ± 10.3 km
ETOR 86.50 44 eP 01 25.00 6.8X	HMC 158.86 359 ePKP 08 35.00 2.6X	4.9mb (3 obs.)
SEK 86.56 119 eP 01 20.50 1.6	BJI 159.17 348 ePKP 08 34.00 1.4	EAST PAPUA NEW GUINEA REGION (207)
i 01 30.50 31kmX	TIY 161.95 356 iPKPd 08 38.30 2.6X	LAT 0.98 159 iP 05 10.90 -0.1
ECHE 86.63 46 e(P) 01 16.50 -2.2	TIA 162.61 343 ePKP 08 37.00 0.7	eS 05 37.00 0.2
PRY 86.92 117 iPc 01 21.00 0.3	CD2 167.08 28 ePKP 08 40.00 -0.4	MNDI 3.00 262 eP 05 30.00 0.1
0.8s 18.75nm 5.2mb	CHG 168.70 92 ePKP 08 46.00 4.3X	KDB 3.74 172 iPd 05 38.50 0.2
SLR 88.01 116 iPc 01 25.60 -0.3	S.D. = 1.0 on 138 of 184 obs.	eS 06 27.00 0.1
0.9s 42.02nm 5.5mb	& JUN 22, 1990 12h 00m 18.86s	QIS 16.24 204 eP 08 15.00 -0.3
i 01 38.00 41kmX	60.059 N 153.462 W	WB5 18.44 219 iPd 08 38.50 -0.4
BCAO 89.28 85 iPc 01 31.40 -0.5	DEPTH = 145.0km	i 08 42.20 0.1
1.6s 78.00nm 5.6mb	SOUTHERN ALASKA (2)	eS 11 58.50 -0.5
ic 04 54.00 -0.5	<AGS-P>	WRA 18.51 219 Pd 08 39.10 -0.5
YKA 89.38 341 eP 01 30.80 -0.5	RED 0.50 43 iP 00 39.15 -0.8	0.4s 7.80nm 4.6mb
0.7s 32.20nm 5.6mb	eS 00 55.31 -0.8	RMQ 20.73 175 iPd 09 02.80 0.8
BFT 89.51 117 iPc 01 34.00 0.9	AUE 0.70 176 iP 00 40.25 -0.8	0.3s 11.00nm 4.9mb
1.0s 35.00nm 5.4mb	RDT 0.74 45 iP 00 40.63 -0.8	ASPA 21.64 213 iPd 09 11.90 1.1
BUL 90.28 111 iPc 01 34.90 -1.7	iS 00 57.77 -0.8	0.5s 41.00nm 5.2mb
iP 01 45.40 33kmX	MCNL 0.98 207 iP 00 42.11 -1.2	eS 12 57.20 0.1
i 05 06.00 0.9	XLV 1.07 124 eP 00 42.85 -1.2	i 17 21.40 -0.8
CIR 92.55 113 iPd 01 47.80 0.9	eS 01 02.30 -1.2	BRS 22.31 166 iP 09 16.50 -0.8
iP 02 00.00 40kmX	NNL 1.09 90 eP 00 44.14 -0.1	S.D. = 0.8 on 9 of 9 obs.
iPP 05 27.00 -0.8	CDD 1.14 185 iP 00 43.46 -1.3	?
AVF 92.74 41 eP 01 46.30 -0.8	iS 01 03.59 -1.3	JUN 22, 1990 15h 25m 54.97 ± 2.29s
1.1s 20.75nm 5.4mb	CNPM 1.25 114 iP 00 44.78 -1.0	5.582 S ± 32.6km 104.974 E ± 30.1km
SMF 92.98 41 eP 01 47.90 -0.4	SPU 1.32 31 iP 00 45.73 -0.8	DEPTH = 105.2 ± 18.6 km
0.9s 20.45nm 5.5mb	BRLK 1.33 102 iP 00 45.90 -0.7	4.8mb (6 obs.)
LBF 93.22 41 iPc 01 48.30 -1.1	eS 01 06.48 -0.5	SOUTHERN SUMATRA (274)
0.9s 11.45nm 5.2mb	CRP 1.37 27 iP 00 46.67 -0.5	PPI 6.84 318 e(P) 27 35.00 0.7
LOR 93.26 41 eP 01 48.60 -1.0	CGLM 1.44 29 iP 00 47.06 -0.8	TRT 7.90 106 ePc 27 47.20 -1.6
0.8s 8.05nm 5.1mb	NCG 1.49 25 iP 00 47.93 -0.5	CHTO 24.96 346 eP 31 13.00 2.8
BNI 94.12 44 P 02 00.50 6.8X	SVW 1.50 316 iP 00 47.22 -1.2	0.8s 2.20nm 3.6mb X
LPL 94.35 43 eP 01 55.10 0.2	eS 01 09.37 -1.4	WB5 31.92 119 eP 32 13.50 0.7
1.0s 12.00nm 5.3mb	SLKM 1.68 73 eP 00 48.91 -1.4	WRA 31.92 119 Pd 32 13.60 0.8
LPG 94.35 43 eP 01 55.40 0.4	eS 01 12.31 -1.2	0.4s 2.70nm 4.3mb
0.9s 9.85nm 5.2mb	SUA 1.94 42 iP 00 52.32 -1.2	ASPA 33.14 126 iPc 32 23.80 0.3
ARV 97.74 47 P 02 20.00 10.0X	eS 01 19.20 -1.9	1.0s 7.00nm 4.4mb
SDI 97.75 49 P 02 20.50 10.3X	SEW 2.01 87 eP 00 52.27 -1.9	PKI 37.99 331 P 33 04.00 -0.8
DUI 98.19 49 P 02 24.00 11.8X	SKT 2.15 25 eP 00 54.74 -1.1	GUN 38.06 332 P 33 05.20 -0.2
FVI 98.66 44 P 02 20.50 6.5X	PMS 2.26 57 eP 00 55.27 -2.0	0.4s 9.00nm 5.0mb
INK 99.14 340 eP 02 16.00 0.2	PWA 2.37 46 eP 00 56.56 -2.0	DMN 38.17 331 P 33 06.20 0.0
CLL 100.32 39 ePd iff 02 13.00 -8.6X	eS 01 28.56 -3.0	GKN 38.73 331 P 33 10.20 -0.6
MBC 100.38 349 ePd iff 02 21.50 0.2	PLRM 2.62 52 eP 00 58.71 -3.0	0.4s 7.00nm 4.9mb
0.6s 1.00nm 4.6mb	GHO 2.80 50 iP 01 01.39 -2.8	STK 43.08 132 iPc 33 47.30 1.1
NB2 102.42 29 Pd iff 02 33.50 2.7X	SML 3.06 53 iP 01 04.48 -2.9	1.0s 13.00nm 4.7mb
1.0s 4.80nm 5.2mb	GLI 3.26 73 eP 01 07.08 -2.9	NDI 43.30 323 iPd 33 46.50 -1.5
MLR 107.23 47 ePKP 07 11.00 9.6X	SCM 3.48 57 eP 01 10.13 -2.8	0.6s 33.33nm 5.3mb
ASPA 131.44 209 ePKP 07 47.20 -1.0	VZW 3.56 71 eP 01 10.86 -3.0	LNO 144.29 30 e(PKP)45 19.50 -1.0
iPP 10 03.30 -1.0	VLZ 3.68 70 eP 01 12.52 -2.8	TUL 144.29 30 ePKP 45 20.00 -0.6
iSKP 11 02.60 -1.0	KTH 3.71 18 eP 01 14.21 -1.7	0.5s 26.20nm 5.2mb
iPKS 11 12.20 -1.0	KLU 3.97 65 eP 01 16.32 -3.0	S.D. = 1.3 on 14 of 14 obs.
WRA 134.43 212 PKPc 07 50.80 -3.1X	TOA 4.09 57 eP 01 18.79 -2.2	* JUN 22, 1990 16h 18m 22.00 ± 0.77s
0.7s 1.40nm 5.4mb	MCK 4.26 28 eP 01 21.15 -2.0	26.701 N ± 13.5km 127.828 E ± 13.6km
WB5 134.47 212 ePKP 07 47.80 -6.2X	SDG 4.55 54 eP 01 24.73 -2.3	DEPTH = 33.0km (normal)
i 07 53.70 1.6	PAX 4.81 49 eP 01 28.21 -2.4	4.4mb (5 obs.)
iSKP 11 13.70 -1.0	NEA 4.97 22 eP 01 30.24 -2.4	RYUKYU ISLANDS (238)
KUSJ 143.22 317 ePKP 08 05.10 -4.1X	WRH 5.09 27 eP 01 31.52 -2.7	Felt at Naha and Nogo, Okinawa.
ASAJ 144.00 320 ePKP 08 08.80 -1.7	CCB 5.30 27 eP 01 34.19 -2.9	CHG 27.72 260 eP 24 09.80 0.3
KSH 144.10 49 PKP 08 11.00 0.0	TGL 5.32 78 eP 01 35.00 -2.4	PKI 37.63 281 P 25 36.00 -0.1
HOOJ 144.49 317 ePKP 08 10.40 -1.0	FBA 5.52 26 eP 01 37.37 -2.6	0.4s 10.00nm 5.0mb
POO 145.04 86 iPKPd 08 13.20 0.1	8ALM 5.57 75 eP 01 39.12 -1.7	DMN 37.89 281 P 25 38.20 0.0
MRRJ 145.87 318 ePKP 08 14.60 0.9	GLM 5.69 27 eP 01 39.61 -2.7	GKN 38.24 282 P 25 41.00 0.0
KOD 146.45 101 ePKP 08 18.00 2.1	40 obs. associated	0.4s 11.00nm 5.0mb
GUA 146.86 265 ePKP 08 17.90 1.8	* JUN 22, 1990 13h 56m 11.82 ± 0.74s	WRA 46.80 172 P 26 50.30 -0.1
GUMO 146.91 265 ePKP 08 17.80 1.6	36.991 N ± 11.1km 50.107 E ± 8.7km	0.9s 2.10nm 4.1mb
1.4s 692.31nm 5.4mb	DEPTH = 10.0km (geophysicist)	MBC 69.46 14 eP 29 29.00 0.5
OFUJ 147.14 313 PKP 08 18.30 2.4X	4.0mb (2 obs.)	HFS 78.24 332 eP 30 19.40 -0.3
GBA 147.44 95 PKPd 08 16.50 -0.5	IRAN (348)	0.4s 0.70nm 4.0mb
1.1s 35.70nm 5.4mb	TEH 1.62 140 iPc 56 40.00 -0.7	NB2 78.73 334 P 30 22.10 -0.4
NDI 148.09 67 iPKPc 08 19.50 1.7	TAB 3.19 291 eP 57 04.00 0.9	0.8s 1.70nm 4.1mb
0.7s 17.12nm 5.4mb	KER 3.59 224 eP 57 09.00 0.2	S.D. = 0.3 on 8 of 8 obs.
YAMJ 148.69 312 ePKP 08 22.60 4.2X	MAIO 7.58 92 iPc 58 06.00 0.9	* JUN 22, 1990 16h 49m 17.23 ± 1.59s
WMQ 149.07 34 ePKP 08 22.00 3.0X	HFS 32.74 327 eP 02 45.70 -0.8	45.563 N ± 19.7km 14.815 E ± 8.9km
HYB 149.30 89 ePKP 08 22.00 2.0	0.7s 2.20nm 4.2mb	DEPTH = 10.0km (geophysicist)
1.0s 60.00nm 5.4mb	NB2 34.24 327 P 02 59.10 -0.5	YUGOSLAVIA (383)
e 08 25.00 5.4mb	0.7s 1.10nm 3.9mb	MD 2.3 (LJU).
e 08 54.00 5.4mb		
KAKJ 149.46 309 PKP 08 24.50 4.8X		
NHJJ 149.85 311 PKP 08 25.50 5.3X		
CHJJ 150.39 309 PKP 08 27.40 6.3X		
MDJ 150.63 332 ePKP 08 26.00 4.8X		

GREECE (364)

Table with columns for station codes (VLS, ITM, NEO, IGT, VLI, LIT, FNA, OHR, KNT), time (MD 3.0), location (ATH), magnitude (ML 2.7), and time (THE). Includes S.D. = 1.1 on 8 of 9 obs.

JUN 22, 1990 21h 16m 52.62 ± 0.24s
11.915 N ± 6.3km 85.798 W ± 7.2km
DEPTH = 28.4km (8 depth phases)
5.0mb (14 obs.) 4.6Msz (5 obs.)

NICARAGUA (75)

MD 5.1 (HDC), CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 17C
Centroid Location:
Origin Time 21:17: 4.7 1.2
Lat 11.64N FIX; Lon 86.15W FIX
Dep 15.0 FIX Half-duration 2.0
Moment Tensor; Scale 10**17 Nm
Mrr= 0.72 0.10 Mtt=-0.35 0.10
Mff=-0.37 0.17 Mrt= 1.16 0.27
Mrf=-0.81 0.26 Mtf= 0.40 0.09
Principal Axes:
T Val= 1.59 Plg=58 Azm= 30
N 0.02 5 127
P -1.61 31 220
Best Double Couple: Mo=1.6*10**17
NP1: Strike=326 Dip=14 Slip= 109
NP2: 126 76 85

Table listing stations (RIN3, JUD, JTS, EPA, POA2, CAO, HD2, PTCR, IR22, OCM, OPS, CDM, UPA, TPX, SCX, OXX, LVVM, IIT, PPM, ACX, III, CRX, IIJ, MRX, UYO, NNA, TUL, BLA, FVM, ALO, ANMO, GOL, ZOBO) with their respective coordinates and magnitudes.

Table listing stations (LPB, CNCB, GLA, RSNY, BAR, TPC, MSU, PLM, RSSD, DAU, RVR, GSC, PAS, SBB, DUG, SIV, BW06, CLC, TNP, SYP, BCH, PHAM, FRI, KVN, HPI, PRI, PRS, CMB, SAO, ARN, MHC, GCC, BRK, ORV, MIN, WDC, SES, FHC, FFC, NEW, DPW, SCH, LON, BAO, PNT, EDM, GMW, FRB, YKA, INK, PMS, FBA, TTA, SDN, DAG, LKO, KHC, ASPA, WB5, WRA, GBA, LOE, BDT) with their respective coordinates and magnitudes.

0.9s 44.20nm
MUN 151.56 222 ePKP 36 41.00 1.3
S.D. = 1.1 on 76 of 97 obs.

* JUN 22, 1990 21h 20m 06.59 ± 0.77s
37.341 N ± 11.2km 49.496 E ± 8.0km
DEPTH = 10.0km (geophysicist)
4.4mb (1 obs.)

CASPIAN SEA (338)

Felt at Rasht, Iran.

Table listing stations (TEH, TAB, KER, MAIO, APO) with their respective coordinates and magnitudes. Includes S.D. = 0.3 on 5 of 5 obs.

JUN 22, 1990 21h 20m 43.54 ± 0.15s
14.640 S ± 4.4km 167.934 E ± 3.5km
DEPTH = 19.1km (4 depth phases)
5.6mb (28 obs.) 5.3Msz (8 obs.)

VANUATU ISLANDS (186)

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 31C
Centroid Location:
Origin Time 21:20:48.5 0.4
Lat 14.61S FIX; Lon 167.95E FIX
Dep 15.0 BDY Half-duration 2.1
Moment Tensor; Scale 10**17 Nm
Mrr= 1.85 0.08 Mtt= 0.32 0.10
Mff=-2.17 0.11 Mrt= 0.10 0.23
Mrf= 0.98 0.23 Mtf=-0.26 0.08
Principal Axes:
T Val= 2.07 Plg=77 Azm=276
N 0.35 0 186
P -2.43 13 96
Best Double Couple: Mo=2.2*10**17
NP1: Strike=186 Dip=32 Slip= 90
NP2: 6 58 90

Table listing stations (PVC, DZM, HNR, SGE, VUN, SVA, RAB, KDB, CTA, RMO, COO, QLP, CMS, BWA, CNB, CAN, SNZO, OIS, STK, TOO, WB5, WRA, ADE, ASPA, FORR, WARB) with their respective coordinates and magnitudes.

LRG 147.23 335 iPKPc 40 27.50 2.5X
 1.5s 151.45nm
 LMR 147.27 335 iPKPc 40 27.40 2.3
 1.5s 125.35nm
 USI 147.29 322 PKP 40 26.70 1.5
 RJF 147.35 342 iPKPc 40 27.80 2.6X
 1.3s 83.05nm
 CAI 147.44 129 iPKPd 40 26.10 -0.1
 CAF 147.52 341 iPKPc 40 28.50 3.0X
 LFF 147.91 343 iPKPc 40 29.40 3.4X
 0.7s 24.25nm
 LPO 148.01 342 ePKP 40 29.80 3.6X
 0.8s 21.50nm
 BCAO 148.21 254 iPKPc 40 29.50 2.0
 0.1s 108.00nm
 EPF 149.77 342 ePKP 40 34.00 4.9X
 STS 151.69 355 ePKP 40 39.00 7.1X
 ETOR 152.50 343 ePKP 40 41.00 7.7X
 GUD 153.19 347 ePKP 40 42.00 7.7X
 TOL 153.89 346 ePKP 40 50.00 14.9X
 KIC 169.07 222 (PKP) 40 50.66 -0.6
 LIC 169.15 220 (PKP) 40 50.66 -0.6
 1.5s 52.50nm
 LKO 171.89 232 PKP 40 52.28 -0.4
 S.D. = 1.0 on 187 of 222 obs.

* JUN 22, 1990 21h 48m 43.15 ± 0.83s
 14.566 S ± 11.4km 168.034 E ± 16.0km
 DEPTH = 33.0km (normol)
 4.7mb (3 obs.)

VANUATU ISLANDS (186)
 DZM 7.62 191 iPc 50 32.40 -2.3
 HNR 9.41 302 eP 51 00.00 0.4
 eS 51 26.00
 RMO 21.57 234 e(P) 53 33.00 1.0
 i 53 59.70
 COO 21.78 220 eP 53 36.00 1.9
 CMS 26.39 227 eP 54 19.00 0.5
 WB5 32.55 256 eP 55 12.80 -0.9
 WRA 32.58 256 P 55 14.00 0.1
 0.5s 0.70nm 3.8mb
 ASPA 33.42 249 eP 55 19.60 -1.7
 1.2s 17.00nm 4.8mb
 WARB 40.32 247 eP 56 20.00 0.6
 e 56 46.00
 SBA 63.30 180 e(P) 59 12.00 1.4
 LZM 78.76 312 eP 00 41.50 -3.0
 3.0s 76.00nm 5.2mb
 PKI 90.27 298 P 01 43.00 0.2
 DMN 90.54 298 P 01 44.80 0.9
 VOY 141.84 331 e(PKP) 08 19.00 5.5X
 e 08 40.50
 VAI 144.24 335 PKP 08 16.50 -0.9
 ORI 144.47 321 PKP 08 18.00 -0.1
 TDS 144.78 321 PKP 08 19.00 0.4
 SDI 144.94 325 PKP 08 18.00 -0.9
 BNI 145.75 336 PKP 08 21.00 0.7
 SOI 145.90 319 PKP 08 22.00 1.5
 BCAO 148.32 254 iPKPd 08 28.50 3.4X
 1.1s 242.00nm
 ic 08 54.50
 S.D. = 1.4 on 19 of 21 obs.

JUN 22, 1990 21h 49m 08.64 ± 0.12s
 14.607 S ± 3.3km 167.939 E ± 3.1km
 DEPTH = 22.4km (5 depth phases)
 5.7mb (39 obs.) 5.4MsZ (6 obs.)

VANUATU ISLANDS (186)
 Ms 5.6 (BRK).
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 32C
 Centroid Location:
 Origin Time 21:49:13.6 0.4
 Lot 14.53S FIX; Lon 167.90E FIX
 Dep 15.0 FIX Half-duration 2.6
 Moment Tensor: Scale 10**17 Nm
 Mrr= 3.11 0.12 Mtt= 0.64 0.15
 Mff=-3.75 0.17 Mrt= 0.64 0.34
 Mrf= 2.49 0.32 Mtf= 0.20 0.13
 Principal Axes:
 T Vol= 4.05 Plg=69 Azm=303
 N 0.51 11 183
 P -4.56 18 90
 Best Double Couple: Mo=4.3*10**17
 NP1: Strike=163 Dip=29 Slip= 67

NP2: 9 64 102
 PVC 3.14 173 iPc 50 02.00 4.2X
 iS 50 39.20
 DZM 7.56 191 iPd 50 58.70 -1.7
 iS 52 23.40
 SGE 10.04 109 ePd 51 36.30 1.5
 VUN 10.65 110 eP 51 44.10 1.0
 SVA 10.68 110 eP 51 45.10 1.6
 BRS 19.01 226 iPd+ 53 33.00 1.4
 e 53 40.00
 i 54 08.00
 eS 56 57.00
 KDB 20.95 282 eP 53 54.50 1.9
 CTA 21.40 252 iPc 53 58.30 1.2
 1.0s 226.00nm 5.5mb
 Z 20s 23.40um 5.6MsZ
 iS 57 59.00
 COO 21.69 220 iP 54 02.00 2.0
 PUZ 25.10 161 P 54 33.20 0.0
 QLP 25.13 238 ePc 54 35.00 1.3
 NOZ 25.53 161 eP 54 38.50 1.3
 CMS 26.30 227 iPc 54 45.60 1.1
 0.9s 139.00nm 5.6mb
 CNB 26.53 216 iPc 54 48.00 1.3
 CAN 26.74 216 Pc 54 49.20 0.6
 TCW 27.08 169 P 54 51.30 -0.2
 CAW 27.12 168 P 54 50.90 -1.1
 MRW 27.17 169 P 54 52.40 0.0
 MTW 27.26 167 P 54 51.50 -1.7
 WDW 27.26 168 P 54 52.40 -0.8
 BLW 27.46 168 P 54 53.70 -1.3
 MOW 27.46 168 P 54 53.70 -1.4
 QIS 27.63 254 iPc 54 56.90 0.1
 LTZ 28.32 173 P 55 02.30 -0.6
 STK 29.57 230 iPc 55 15.00 0.8
 1.4s 154.00nm 5.6mb
 TOO 30.34 217 ePc 55 21.20 0.2
 1.0s 88.00nm 5.5mb
 WB5 32.45 256 iP 55 38.00 -1.7
 WRA 32.48 256 Pc 55 45.30 5.4X
 1.3s 75.20nm 5.5mb
 ADE 33.20 227 eP 55 47.00 1.0
 ASPA 33.32 249 iPc 55 46.30 -1.0
 1.1s 127.00nm 5.8mb
 Z 22s 19.32um 5.8MsZX
 iPcP 58 27.80
 eS 01 05.70
 LR 07 52.40
 MTN 35.78 268 eP 56 09.00 0.6
 FORR 39.90 239 eP 56 43.00 0.3
 0.5s 73.00nm 5.7mb
 TVO 41.17 100 eP 56 59.00 5.6X
 1.2s 80.00nm 5.3mb
 PMO 42.65 96 iP 57 14.00 8.6X
 1.2s 70.00nm 5.3mb
 VAH 42.88 97 iP 57 15.80 8.4X
 1.2s 55.00nm 5.2mb
 TPT 42.91 96 iP 57 16.30 8.7X
 1.2s 60.00nm 5.2mb
 RUV 43.12 97 iP 57 17.80 8.5X
 1.2s 75.00nm 5.3mb
 COOL 45.75 241 eP 57 30.00 -0.4
 MEKA 47.50 247 iPc 57 44.20 0.0
 MKS 48.56 276 ePd 57 54.50 1.9
 KLB 48.72 241 eP 57 53.00 -0.7
 MRWA 49.96 244 iPd 58 02.00 -1.2
 MUN 50.09 240 eP 58 04.00 -0.1
 NANU 50.10 253 eP 58 04.60 0.3
 TSM 52.84 287 ePc 58 27.70 2.5
 TRT 54.58 271 ePc 58 36.70 -1.3
 0.7s 113.90nm 6.0mb
 KKM 55.24 288 ePc 58 43.40 0.5
 1.1s 192.10nm 6.0mb
 BAG 56.01 302 eP 58 48.00 -0.5
 KAKJ 56.94 333 P 58 54.00 -0.6
 CHJJ 57.33 332 P 58 56.70 -0.7
 IIDJ 57.37 331 P 58 57.00 -0.7
 WKYJ 57.49 328 eP 58 58.30 -0.3
 TKSJ 58.11 327 eP 59 01.70 -1.1
 MTMJ 58.32 332 P 59 03.80 -0.6
 NIJJ 58.32 333 P 59 03.70 -0.6
 TSRJ 58.34 330 P 59 03.90 -0.5
 YAMJ 58.66 334 P 59 06.70 0.0
 OFUJ 58.78 336 P 59 06.90 -0.5
 SHK 59.26 326 ePc 59 09.80 -1.1
 YONJ 59.34 327 eP 59 10.80 -0.6

HOOJ 61.08 339 eP 59 23.30 0.2
 KUSJ 61.25 341 eP 59 23.40 -0.9
 MRRJ 61.90 338 eP 59 29.00 0.3
 QZH 62.13 309 eP 59 31.00 0.4
 ASAJ 62.83 340 eP 59 34.50 -0.4
 SSE 63.88 316 iPc 59 41.50 -0.5
 1.1s 100.00nm 5.9mb
 pP 59 47.50 19km
 HKC 64.19 304 iP 59 45.40 1.2
 GZH 65.24 304 P 59 52.20 1.2
 NJ2 66.04 315 iPd 59 57.00 1.0
 1.2s 170.00nm 6.1mb
 pP 00 03.50 21km
 KGM 66.05 279 ePd 59 57.50 1.1
 QIZ 66.25 299 eP 59 57.00 -0.6
 PP 02 29.00
 WHN 68.34 312 Pc 00 10.50 -0.1
 1.2s 100.00nm 5.8mb
 pP 00 17.00 21km
 MDJ 68.48 332 iPc 00 11.50 0.3
 1.2s 100.00nm 5.8mb
 DL2 68.59 323 Pc 00 11.00 -1.0
 1.5s 200.00nm 6.0mb
 IPM 68.99 281 ePd 00 16.20 1.3
 1.2s 150.10nm 6.0mb
 SNY 69.46 326 iPc 00 16.00 -1.2
 5.0s 1100.00nm 6.2mb X
 Z 20s 1.20um 5.1MsZ
 N 24s 1.00um
 S 09 27.00
 TIA 69.68 318 Pc 00 17.70 -1.0
 CN2 69.88 329 iPc 00 19.20 -0.5
 1.0s 100.00nm 5.9mb
 eS 09 22.00
 SNG 70.17 283 eP 00 32.60 0.5
 eS 09 39.00
 GYA 72.18 304 P 00 34.80 0.6
 BJI 72.58 321 eP 00 36.00 -0.1
 1.4s 140.00nm 5.8mb
 Z 26s 2.20um 5.3MsZX
 eS 10 02.00
 LOE 72.64 294 iPc 00 37.00 0.1
 NNT 72.74 288 eP 00 33.40 -4.1X
 NST 73.44 291 eP 00 43.00 1.4
 TIY 73.61 317 iPc 00 43.00 0.7
 1.4s 200.00nm 6.0mb
 Z 25s 1.90um 5.3MsZX
 E 19s 0.80um
 S 10 09.00
 XAN 74.09 312 Pc 00 45.00 -0.1
 SDN 74.60 18 eP 00 45.90 -1.6
 KMI 74.79 301 Pc 00 50.50 0.9
 1.5s 220.00nm 6.0mb
 Z 32s 1.90um 5.2MsZX
 BDT 75.01 293 eP 00 50.80 0.2
 SPA 75.49 180 iPc 00 51.10 -1.7
 1.1s 34.52nm 5.3mb
 CHG 75.62 294 ePc 00 54.90 0.7
 1.1s 62.66nm 5.6mb
 HHC 75.91 319 P 00 56.20 0.7
 1.4s 100.00nm 5.7mb
 Z 28s 3.00um 5.5MsZX
 CD2 76.45 307 P 00 58.90 0.2
 1.3s 100.00nm 5.7mb
 eS 10 43.00
 BTO 76.76 318 P 01 01.00 0.7
 N 15s 0.80um
 E 18s 0.80um
 pP 01 07.00 19km
 LZH 78.72 312 Pc 01 12.00 0.7
 1.5s 200.00nm 5.9mb
 Z 32s 1.30um 5.1MsZX
 pP 01 22.00 32km
 eS 11 08.00
 sS 11 28.00
 SVW 80.84 17 eP 01 21.90 -0.1
 TTA 82.23 16 eP 01 29.00 -0.2
 MAW 82.24 202 iPd 01 30.00 0.8
 GTA 83.05 314 iPc 01 35.00 0.9
 1.4s 200.00nm 6.1mb
 Z 22s 0.90um 5.1MsZ
 N 10s 0.30um
 PMR 83.17 19 eP 01 33.40 -0.6
 0.1s 154.20nm 7.0mb X
 PCC 83.37 49 ePc 01 36.00 0.5
 GCC 83.46 49 ePc 01 36.60 0.6
 BRK 83.61 48 eP 01 37.30 0.6

23d 03h

WRA 21.53 228 Pd 02 04.50 -0.3
0.5s 4.60nm 4.1mb
DZM 21.85 139 iPc 02 07.90 -0.2
ASPA 24.28 221 eP 02 33.10 1.3
0.4s 8.00nm 4.5mb
APO 116.71 338 ePKP 15 57.00 -0.4
0.3s 1.20nm
S.D. = 0.9 on 7 of 7 obs.

* JUN 23, 1990 03h 22m 00.76 ± 0.46s
14.849 S ± 12.0km 66.030 E ± 9.1km
DEPTH = 10.0km (geophysicist)
4.9mb (8 obs.)

MID-INDIAN RISE (429)

KRI 35.06 262 eP 29 10.00 13.7X
BUL 36.02 256 iPc 29 03.00 -1.5
DMN 46.08 24 P 30 27.00 -0.2
PKI 46.17 24 P 30 27.60 -0.3
GKN 46.26 23 P 30 27.60 -0.8
GUN 46.66 24 P 30 31.00 -0.8
ASPA 64.17 109 eP 32 37.90 -0.4
1.1s 13.00nm 5.0mb
WRA 65.00 105 Pd 32 43.90 0.2
1.0s 10.70nm 5.0mb
WB5 65.04 105 eP 32 44.20 0.3
KHC 78.75 328 eP 34 06.50 1.5
PRU 78.80 329 eP 34 05.50 0.2
LBF 82.84 322 eP 34 26.30 -0.4
0.9s 7.35nm 4.9mb
LOR 83.05 323 eP 34 27.40 -0.4
0.7s 2.75nm 4.6mb
SSF 83.16 322 eP 34 29.00 0.7
1.0s 8.00nm 4.9mb
BGF 83.30 322 eP 34 28.40 -0.6
0.8s 6.05nm 4.9mb
LPO 83.41 319 eP 34 30.90 1.2
1.1s 19.55nm 5.2mb
RJF 83.50 320 eP 34 29.40 -0.7
LSF 83.94 321 eP 34 33.30 1.0
0.8s 6.05nm 4.9mb
MAT 84.99 50 eP 34 38.00 0.2
INK 125.12 9 ePKP 40 54.00 -8.4X
YKA 132.42 0 ePKP 41 16.30 -0.3
0.8s 1.00nm
PNT 145.32 6 ePKP 41 40.00 -0.5
NEW 146.58 4 ePKP 41 44.00 1.4
1.0s 19.50nm
RSSD 149.62 346 ePKP 41 53.00 5.2X
BW06 151.91 353 IPKPC 41 58.20 6.9X
UYO 153.91 321 e(PKP) 41 54.20 0.1
S.D. = 0.8 on 22 of 26 obs.

* JUN 23, 1990 03h 55m 20.90 ± 2.39s
16.456 N ± 15.4km 61.649 W ± 19.7km
DEPTH = 125.6 ± 22.7 km

LEEWARD ISLANDS (92)

SEG 0.15 111 ePd 55 38.37 -0.9
S 55 49.90
PAG 0.43 184 eP 55 39.68 0.3
S 55 52.60
SFG 0.48 115 eP 55 40.12 0.6
MGH 0.60 296 eP 55 40.66 0.3
S 55 53.50
BPA 0.62 341 iPd 55 40.52 0.8
S 55 53.50
BBL 0.94 170 ePc 55 43.14 0.0
S 55 58.50
NEV 1.11 308 ePc 55 44.74 -0.1
S 56 01.00
FDF 1.78 164 ePd 55 51.89 -0.5
S 56 16.30
CRM 1.83 157 iPd 55 53.11 0.1
BIM 2.01 164 eP 55 55.48 0.3
MVM 2.03 159 iPd 55 55.49 0.1
S 56 21.50
S.D. = 0.5 on 11 of 11 obs.

? JUN 23, 1990 04h 27m 42.47 ± 0.95s
62.867 S ± 18.6km 157.837 W ± 16.6km
DEPTH = 10.0km (geophysicist)
4.9mb (3 obs.)

SOUTH PACIFIC CORDILLERA (691)

SBA 18.61 203 eP 32 02.20 0.8
SPA 27.29 180 eP 33 27.70 -1.0

WRA 1.2s 30.99nm 4.9mb
62.34 280 P 38 07.00 -0.2
1.6s 10.90nm 4.8mb
ARE 73.84 94 eP 39 10.00 -9.2X
CNCB 75.14 98 Pd 39 27.30 0.2
LPB 75.33 97 P 39 28.00 0.0
CCH 75.47 100 Pc 39 29.00 1.2
ZOBO 75.54 97 Pc 39 30.00 0.6
1.0s 22.50nm 5.2mb
SIV 78.97 103 P 39 46.10 -1.6
MBC 140.98 14 ePKP 47 05.50 -7.0X
1.0s 2.00nm
S.D. = 1.1 on 8 of 10 obs.

JUN 23, 1990 05h 01m 44.51 ± 0.11s
0.611 S ± 2.7km 146.473 E ± 3.1km
DEPTH = 23.9km (geophysicist)
5.9mb (58 obs.) 6.0Maz (24 obs.)
ADMIRALTY ISLANDS REGION (199)
Ms 5.8 (BRK), 5.6 (PAS). Depth
from broadband displacement
seismograms.

FAULT PLANE SOLUTION: P-Waves

NP1: Strike=235 Dip=90 Slip= 16

NP2: 145 74 180

Principal Axes:

T P1g=11 Azm=101

P 11 9

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

RADIATED ENERGY

No. of sta: 5 Focal mech. C

Energy 1.1 ± 0.3 × 10¹³ Nm

MOMENT TENSOR SOLUTION

Dep 17 No. of sta: 13

Moment Tensor; Scale 10¹⁸ Nm

Mrr=-0.53 Mtt=-1.39

Mff=1.92 Mrt=-0.30

Mrf=-0.21 Mtf=1.44

Principal axes:

T Val= 2.49 P1g= 6 Azm=111

N -0.53 00 235

P -1.96 8 20

Best Double Couple: Mo=2.2 × 10¹⁸

NP1: Strike=156 Dip=80 Slip=-178

NP2: 65 80 -10

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.8.: 12S, 31C M.W.: 10S, 21C

Centroid Location:

Origin Time 05:01:53.7 0.2

Lat 0.355 0.02 Lon 146.36E 0.02

Dep 24.1 2.0 Half-duration 4.6

Moment Tensor; Scale 10¹⁸ Nm

Mrr=-0.88 0.03 Mtt=-1.00 0.03

Mff=1.88 0.03 Mrt=-0.77 0.10

Mrf=-0.06 0.11 Mtf=1.32 0.02

Principal Axes:

T Val= 2.43 P1g= 6 Azm=112

N -0.46 56 211

P -1.97 33 18

Best Double Couple: Mo=2.2 × 10¹⁸

NP1: Strike=161 Dip=62 Slip=-159

NP2: 61 72 -29

LAT 6.03 175 iPd 03 18.40 4.9X
MNDI 6.18 207 eP 03 20.00 3.1X
RAB 6.71 122 iPc+ 03 21.50 -2.7X
IS 05 24.00
KDB 8.83 176 eP 03 54.00 0.3
GUA 14.14 354 eP 05 04.00 -1.6
1.0s 440.00nm 6.1mb
eS 07 33.50
GUMO 14.20 354 eP 05 04.90 -1.4
1.5s 810.81nm 6.2mb
PJG 14.20 354 eP 05 05.00 -1.3
HNR 16.02 124 eP 05 26.00 -4.0X
eS 07 15.00
CTA 19.36 181 iPd 06 11.90 0.4
1.0s 450.00nm 5.7mb
IS 09 51.00

MTN 19.47 231 iPd 06 12.50 -0.3

QIS 20.93 198 iPd 06 27.60 -0.5
0.6s 144.00nm 5.6mb
MNI 21.73 275 ePd 06 34.00 -2.2
1.0s 554.50nm 5.9mb
DAV 22.21 291 eP 06 42.10 1.1
WB5 22.52 211 iPd 06 44.00 -0.1
eS 10 37.00
e 38 28.90
WRA 22.59 211 Pd 06 44.30 -0.4
0.9s 268.60nm 5.7mb
RMQ 25.82 175 iPd 07 15.40 -0.4
1.0s 196.00nm 5.7mb
e 07 32.00 72kmX
e 10 48.00
ASPA 25.96 207 ePd 07 17.10 -0.1
0.9s 662.00nm 6.3mb
Z 16s 36.66um 6.0MazX
eS 11 51.40
LR 18 48.60
BRS 27.31 168 iPc 07 28.00 -1.5
i 07 37.00 32kmX
i 07 40.00
MKS 27.35 260 ePc 07 31.70 1.8
PVC 27.40 130 iPc 07 34.00 3.6X
TSM 28.78 280 ePd 07 45.00 2.1
DZM 28.87 139 iPc 07 42.00 -1.7
QCP 29.34 302 eP 07 47.50 -0.4
COO 30.24 171 eP 07 55.00 -0.9
BAG 30.64 305 eP 08 00.00 0.3
CMS 30.71 181 eP 07 58.00 -1.9
e 08 32.00 162kmX
WARB 31.80 215 iPd 08 09.20 -0.4
0.5s 179.00nm 5.4mb
BWA 33.69 127 iPd 08 25.00 -1.0
e 11 08.70
e 23 32.30
TRT 34.45 257 ePd 08 35.20 2.4
CAN 34.61 176 eP 08 32.80 -1.1
i 11 10.90
e 23 33.20
CNB 34.63 176 eP 08 33.00 -1.1
e 10 05.00 531kmX
FORR 34.76 208 eP 08 33.00 -1.4
KAGJ 34.91 336 eP 08 36.40 -0.1
ADE 34.94 191 e(P) 08 36.40 -0.4
SGE 35.23 120 eP 08 38.10 -1.4
VUN 35.87 121 ePd 08 44.90 0.0
SVA 35.91 121 eP 08 44.60 -0.6
WKYJ 36.12 345 P 08 46.00 -0.8
KUMJ 36.13 337 eP 08 46.50 -0.3
TKSJ 36.34 342 eP 08 46.30 -2.2
TOO 36.79 181 eP 08 51.50 -0.8
QZH 37.07 315 P 08 56.80 2.0
Z 20s 13.00um 5.7Msz
E 18s 12.40um
pP 09 07.00 35kmX
S 14 34.00
NANU 37.17 232 iPd 08 55.80 0.1
0.4s 20.00nm 5.3mb
MEKA 37.29 224 iPc 08 56.30 -0.4
MAJO 37.75 349 ePd 08 57.45 -3.0
ePc 09 05.17 26kmX
eSPd 09 08.49
MAT 37.75 349 (P) 08 59.00 -1.4
1.8s 818.18nm 6.3mb
Z 19s 11.11um 5.7Msz
eS 14 42.00
COOL 38.51 216 iPd 09 06.20 -0.7
1.0s 128.00nm 5.7mb
HKC 38.86 308 IP 09 12.00 2.2
IS 15 08.00
SSE 39.63 325 iPd 09 17.00 0.8
1.0s 210.00nm 5.8mb
Z 20s 18.90um 5.9Msz
N 18s 14.50um
E 16s 5.00um
eScP 15 12.00
S 15 14.00
eScS 19 20.00
GZH 39.92 308 P 09 18.00 -0.6
Z 20s 19.30um 5.9Msz
N 16s 9.20um
E 18s 16.30um
S 15 25.00
MRWA 40.67 223 iPd 09 24.50 -0.3
QIZ 40.91 308 P 09 27.60 0.7
N 17s 8.50um

EPRU 135.36 327 ePKP 21 06.50 1.8	MDJ 76.84 329 eP 43 10.50 -1.1	SDI 153.41 325 PKP 51 14.00 4.0X S.D. = 1.2 on 62 of 89 obs.
IFR 137.79 324 iPKP 21 12.00 2.4X	TIA 78.23 316 eP 43 17.00 -2.4	? JUN 23, 1990 05h 45m 39.81 ± 5.17s 16.123 S ± 77.7km 74.388 W ± 47.1km DEPTH = 10.0km (geophysicist) NEAR COAST OF PERU (115)
ARE 138.89 116 ePKP 21 08.00 -4.1X	CN2 78.32 326 P 43 19.00 -0.7	
AVE 139.27 326 ePKP 21 05.00 -7.0X	MAW 78.40 201 eP 43 19.00 -0.8	
TIO 140.90 323 iPKP 21 10.00 -5.2X	BJI 81.13 319 eP 43 33.50 -1.4	
CNCB 141.88 119 PKP 21 15.20 -2.7	TIY 82.15 315 Pc 43 41.20 0.8	
LPB 141.88 118 PKP 21 16.10 -1.6	KMI 82.95 300 eP 43 47.00 2.0	
Z 20s 3.19um 6.1msz	CHG 83.38 293 eP 43 48.90 1.9	
ZOBO 141.96 118 ePKP 21 15.00 -3.0X	PRS 83.60 47 e(P) 43 48.00 0.2	
SDV 142.15 76 ePKP 21 14.80 -3.2X	BCH 83.90 49 eP 43 49.10 -0.4	
MGP 142.77 60 PKP 21 12.50 -6.1X	MHC 83.94 46 eP 43 48.20 -1.5	
TOV 142.79 75 ePKP 21 17.50 -1.4	PRI 83.98 48 e(P) 43 50.20 0.3	
FISA 142.90 72 ePKP 21 15.70 -3.3X	ARN 84.02 46 eP 43 50.00 0.0	
PORP 143.14 60 PKP 21 16.00 -3.3X	HHC 84.46 318 P 43 53.80 1.6	
CCH 143.24 121 PKP 21 19.50 -0.3	CD2 84.82 306 eP 43 58.20 4.1X	
CPD 143.77 60 PKP 21 19.30 -1.1	FR1 85.08 47 eP 43 55.00 -0.2	
CAR 145.38 72 ePKP 21 24.40 1.1	WDC 85.09 43 eP 43 54.20 -1.0	
LLAV 145.50 72 ePKP 21 24.00 0.5	CMB 85.16 46 eP 43 55.30 -0.3	
OLLA 145.61 73 ePKP 21 24.00 0.3	ORV 85.21 44 e(P) 43 55.50 -0.3	
ITB7 147.54 143 e(PKP)21 30.20 3.8X	PLM 85.30 52 eP 43 57.00 0.4	
GGC 147.72 329 iPKP 21 32.60 5.9X	MIN 85.57 44 eP 43 59.60 1.8	
CTFE 147.74 331 ePKP 21 34.50 7.8X	GLA 86.66 53 eP 44 04.10 0.9	
ITB 147.76 143 e(PKP)21 31.40 4.6X	LZH 87.20 310 eP 44 04.00 -1.9	
ITB1 147.76 143 e(PKP)21 31.80 5.1X	Z 20s 37.00nm 5.4mb	
SIV 148.19 122 PKP 21 26.50 -1.2	Z 20s 1.70um 5.5msz	
TBT 148.35 333 ePKP 21 32.70 5.1X	KVN 87.22 46 eP 44 12.00 25kmx	
CHIE 149.18 332 ePKP 21 34.50 5.5X	TNP 87.34 47 eP 44 07.30 0.7	
SLB 149.77 63 ePKP 21 36.51 6.3X	GMW 88.75 37 eP 44 13.80 0.9	
TCE 150.21 69 ePKP 21 36.56 5.7X	RMW 89.26 38 eP 44 15.50 0.1	
TRN 150.56 69 ePKP 21 37.27 5.9X	MSU 91.05 49 eP 44 25.80 1.7	
TPP 150.61 70 ePKP 21 38.21 6.8X	PNT 91.48 37 eP 44 27.00 1.5	
KIC 150.72 282 PKP 21 36.68 5.0X	GTA 91.56 312 P 44 26.80 0.5	
LKO 150.82 289 PKP 21 36.88 5.1X	ALO 93.75 54 eP 44 36.00 -0.5	
TBH 150.92 69 ePKP 21 38.33 6.4X	ANMO 93.76 54 eP 44 37.00 0.5	
TIC 150.94 283 PKP 21 37.18 5.2X	YKA 100.28 27 eP diff 45 03.80 -1.5	
TPR 150.97 68 ePKP 21 38.61 6.6X	MRL 144.16 320 ePKP 50 53.00 -2.6X	
LIC 151.02 282 PKP 21 37.24 5.2X	KRA 144.47 331 ePKP 50 52.30 -3.5X	
PPD 151.58 143 (PKP) 21 41.00 8.3X	CTT 144.60 312 iPKP 50 54.20 -2.1	
BMA 154.63 157 ePKP 21 46.60 9.6X	DMK 144.78 314 ePKP 50 54.00 -2.6X	
BAO 158.44 139 ePKP 21 44.50 2.4X	KHL 144.85 307 ePKP 50 54.00 -2.9X	
S.D. = 1.0 on 287 of 340 obs.	SPC 144.94 330 ePKP 50 55.00 -1.9	
JUN 23, 1990 05h 31m 21.33 ± 0.29s 21.037 S ± 9.0km 173.902 E ± 7.5km DEPTH = 33.0km (normal) 5.1mb (10 obs.) 5.3msz (2 obs.) VANUATU ISLANDS REGION (185)	KSP 145.44 335 ePKP 50 56.30 -1.1	JUN 23, 1990 06h 02m 37.93 ± 0.75s 37.899 N ± 7.1km 4.083 W ± 6.5km DEPTH = 10.0km (geophysicist) SPAIN (377) mbLg 2.8 (MDD).
	SGE 5.12 49 eP 32 32.30 -5.5X	
SVA 5.19 57 eP 32 32.10 -6.6X	CLL 146.29 338 ePKP 50 58.00 -0.8	S.D. = 0.8 on 6 of 7 obs.
VUN 5.25 56 ePc 32 31.90 -7.7X	BRG 146.32 337 ePKP 50 57.60 -1.3	
DZM 7.02 260 iPc 33 03.90 -0.7	PRU 146.81 335 PKP 51 00.00 0.3	JUN 23, 1990 06h 32m 03.99 ± 0.29s 6.828 N ± 2.9km 72.989 W ± 2.9km DEPTH = 155.5 ± 3.5 km 5.2mb (21 obs.) NORTHERN COLOMBIA (99) Felt of Bucoramanga.
WEL 20.20 178 P 35 56.00 -0.1	SRO 146.82 329 e(PKP)51 06.60 6.9X	
BRS 20.27 248 iPc 35 57.50 0.6	ZST 147.11 331 ePKP 51 01.80 1.6	BMG 0.26 340 eP 32 27.00 0.4
COO 21.94 240 iPd 36 16.00 2.0	MOX 147.32 339 e(PKP)51 17.00 16.5X	FUO 1.54 209 eP 32 36.50 1.4
RMQ 23.63 252 eP 36 32.00 1.5	VTS 147.37 318 iPKP 51 02.00 1.0	BOG 2.44 206 iPc 32 47.00 1.6
CNB 25.80 231 iPc 36 52.10 0.9	MMB 147.56 316 iPKPc 51 03.00 1.8	HOBG 3.98 232 iPd 33 04.45 -0.5
CAN 26.07 232 eP 36 54.10 0.4	KHC 147.87 335 iPKPc 51 04.00 2.5X	BUGC 4.37 228 iPd 33 09.69 -0.4
BWA 26.12 234 iPc 36 52.80 -1.4	GRF 148.27 338 ePKP 51 04.70 2.7X	CLMC 4.61 231 iPd 33 12.72 -0.6
CMS 27.17 242 ePd 37 04.20 0.4	VAY 148.44 316 ePKP 51 04.50 2.0	DIAC 4.75 222 ePd 33 14.57 -0.6
TOO 29.60 230 eP 37 26.00 0.3	SKO 148.81 318 ePKP 51 02.50 -0.6	HOQC 4.93 228 iPd 33 16.33 -1.4
ADE 33.84 238 e(P) 38 03.00 0.1	OHR 149.68 317 iPKP 51 08.40 3.8X	ANCC 5.07 230 iPd 33 18.58 -0.8
ASPA 37.01 258 eP 38 28.90 -1.0	LJU 149.88 331 ePKP 51 08.50 3.9X	SILC 5.30 219 eP 33 22.98 0.3
Z 21s 3.30um 5.1msz	VBY 149.95 329 ePKP 51 09.40 4.7X	SALC 5.32 224 iPd 33 22.10 -0.7
WRA 37.01 264 Pc 38 28.60 -1.4	CEY 150.16 330 ePKP 51 08.50 3.4X	PURC 5.60 217 iPd 33 27.68 0.9
TPT 37.02 87 eP 38 20.00 -10.0X	VOY 150.18 331 ePKP 51 08.90 3.7X	UPA 6.83 289 iPc 33 41.20 -1.6
SBA 56.97 182 eP 41 03.30 -2.2	FVI 150.23 333 PKP 51 06.50 1.4	PSO 7.07 218 eP 33 46.50 -0.1
MAT 66.46 329 (P) 42 09.00 -0.7	SOTA 150.35 336 iPKPc 51 09.80 4.3X	CUMC 7.60 220 eP 33 53.22 -0.4
SPA 69.09 180 iPc 42 25.90 -0.2	CDF 150.65 342 ePKP 51 10.20 4.4X	CAYA 8.35 217 eP 34 04.00 0.3
WHN 76.82 310 eP 43 12.00 0.3	BCAO 150.93 239 iPKPc 51 12.00 4.8X	COTA 8.37 220 eP 34 03.70 -0.3
	HAU 151.28 342 ePKP 51 11.60 4.9X	GECU 8.79 216 eP 34 10.00 0.4
	BSF 151.31 342 ePKP 51 11.60 4.7X	QUR 8.88 219 eP 34 10.50 -0.2
	VAI 152.40 337 PKP 51 14.00 5.7X	QTO 8.91 219 eP 34 11.70 0.7
	LOR 152.61 345 ePKP 51 14.80 6.2X	GGP 8.93 219 P+ 34 10.70 -0.7
	SSF 152.89 346 ePKP 51 15.40 6.4X	VC1 9.18 216 eP 34 14.30 -0.3
		TCE 11.75 70 eP 34 49.22 1.3
		TPP 11.92 72 eP 34 51.62 1.5
		TRN 12.06 71 eP 34 52.04 0.1
		S 35 00.70
		MGP 12.51 27 P 34 55.90 -1.9
		PORP 12.76 28 P 35 00.80 -0.2
		CPD 13.10 31 P 35 06.00 0.5
		SVB 13.21 60 eP 35 06.77 0.0
		SLB 13.65 58 eP 35 12.50 0.0

32.657 S ± 6.4km 70.392 W ± 7.5km
DEPTH = 87.7 ± 13.7 km

CHILE-ARGENTINA BORDER REGION (127)

JACH 0.17 262 iPd 31 06.00 -0.4
IS 31 16.00
PEL 0.54 207 iP 31 08.50 0.1
i(S) 31 20.00
ROCH 0.61 239 iPc 31 09.10 -0.1
IS 31 21.00
SAN 0.83 196 eP 31 11.00 -0.1
IS 31 26.10
PCH 0.97 186 iPd 31 13.20 0.4
IS 31 29.00
TACH 1.09 205 iPd 31 14.30 0.1
IS 31 31.00
IHA 1.11 250 eP 31 14.00 -0.4
i(S) 31 29.30
RTBS 1.27 39 eP 31 17.20 0.8
LCCH 1.28 230 iPd 31 16.80 0.3
IS 31 34.00
CHCH 1.29 190 iPd 31 16.80 0.1
IS 31 36.00
LNV 1.55 213 iP 31 19.50 -0.4
i 31 40.00
RTCV 1.76 64 iPd 31 23.00 0.2
ZON 1.83 53 eP 31 23.00 -0.7
eS 31 49.00
RTLL 2.10 52 iPd 31 27.00 -0.4
CFA 2.11 61 iPc 31 27.00 -0.4
eS 31 53.10
RTRS 2.60 18 ePd 31 34.50 0.4
S.D. = 0.5 on 16 of 16 obs.

* JUN 23, 1990 08h 59m 01.39 ± 0.86s
30.866 S ± 9.3km 69.118 W ± 12.9km
DEPTH = 33.0km (normol)

CHILE-ARGENTINA BORDER REGION (127)

RTLL 0.72 130 iPd 59 15.90 0.7
RTRS 0.75 337 iPd 59 15.50 0.0
ZON 0.78 151 eP 59 16.00 0.1
RTBS 0.84 200 ePd 59 17.00 0.2
CFA 1.05 135 iPd 59 19.50 -0.4
eS 59 36.80
RTCV 1.11 154 ePc 59 20.20 -0.5
S.D. = 0.6 on 6 of 6 obs.

% JUN 23, 1990 09h 14m 55.19 ± 1.07s
39.667 N ± 8.5km 29.416 E ± 11.8km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

IZI 0.67 4 iPg 15 08.00 -0.6
eSg 15 18.00
ALT 0.81 138 ePg 15 11.00 0.0
YLV 0.90 358 ePn 15 12.00 -0.5
HRT 1.17 9 ePn 15 18.00 0.9
BNT 1.34 301 ePn 15 20.00 0.1
S.D. = 0.9 on 5 of 5 obs.

% JUN 23, 1990 09h 52m 22.18 ± 0.72s
40.794 N ± 6.2km 27.928 E ± 5.8km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

BNT 0.44 181 ePg 52 31.00 -0.1
KGT 0.59 234 iPg 52 34.00 0.0
iSg 52 41.00
ISK 0.90 72 iPg 52 39.50 0.1
DMK 1.03 353 iPg 52 41.80 0.1
iSg 52 55.30
YLV 1.12 101 iPn 52 43.00 -0.3
IZI 1.26 111 ePn 52 46.50 0.8
HRT 1.32 88 ePn 52 46.00 -0.6
S.D. = 0.5 on 7 of 7 obs.

% JUN 23, 1990 10h 29m 13.81 ± 1.10s
44.864 N ± 10.3km 26.418 E ± 6.5km
DEPTH = 10.0km (geophysicist)

ROMANIA (358)

ISR 0.29 18 iPc 29 20.00 0.1
MLR 0.71 332 iPd 29 28.00 0.1
VTUR 1.03 291 ePd 29 35.00 1.7
MRI 1.03 12 ePc 29 33.00 -0.3
CMP 1.06 293 ePc 29 33.00 -0.8

TLB 1.18 103 iPc 29 36.00 0.1
DRA 1.55 264 eP 30 00.00 18.5X
BZS 3.47 284 ePc 30 08.00 -1.0
S.D. = 1.1 on 7 of 8 obs.

JUN 23, 1990 10h 32m 20.51 ± 0.29s
44.307 N ± 2.2km 7.218 E ± 3.0km
DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)

ML 2.3 (LDG), 2.1 (GEN).

STV 0.10 130 P 32 23.47 0.2
S 32 24.99
ENR 0.17 119 P 32 24.39 0.0
S 32 26.73
DOI 0.20 6 P 32 25.40 0.5
eSg 32 28.10
PZZ 0.21 337 P 32 25.50 0.2
S 32 28.77
ROB 0.47 91 P 32 30.34 0.3
S 32 37.31
SBF 0.47 161 Pg 32 29.90 -0.2
Sg 32 35.00
IMI 0.63 129 P 32 32.80 -0.3
S 32 41.62
RRL 0.69 333 P 32 33.74 -0.5
FIN 0.72 98 P 32 34.56 -0.1
RSP 0.84 2 P 32 37.00 0.1
FRF 0.85 209 Pg 32 37.20 0.3
Sg 32 47.40
PCP 0.98 76 P 32 39.05 -0.1
S 32 51.97
LRG 1.05 216 Pg 32 40.20 -0.2
Sg 32 54.70
LMR 1.10 208 Pg 32 41.40 0.2
Sg 32 55.30
LSD 1.15 358 P 32 41.92 -0.3
LPG 1.24 345 Pg 32 43.80 0.1
LPL 1.26 344 Pg 32 43.80 -0.2
S.D. = 0.3 on 17 of 17 obs.

* JUN 23, 1990 10h 41m 08.26 ± 0.89s
37.129 N ± 20.5km 49.725 E ± 13.3km
DEPTH = 10.0km (geophysicist)

CASPIAN SEA (338)

TEH 1.93 136 iPd 41 41.50 -0.1
TAB 2.86 290 eP 41 55.00 0.1
KER 3.49 218 eP 42 08.00 4.1X
MAIO 7.89 93 eP 43 06.00 0.1
0.8s 10.98nm 5.1mb
eS 44 41.00
HFS 32.45 327 eP 47 39.30 -1.2
0.9s 7.50nm 4.6mb
NB2 33.96 327 P 47 54.60 1.0
0.7s 1.60nm 4.1mb
S.D. = 1.1 on 5 of 6 obs.

? JUN 23, 1990 10h 51m 21.92 ± 4.38s
2.240 N ± 17.9km 97.290 E ± 41.9km
DEPTH = 33.0km (normol)

NORTHERN SUMATERA (706)

PSI 1.69 74 ePc 51 50.40 0.8
PPI 4.10 131 eP 52 24.00 0.1
0.8s 73.00nm
IPM 4.39 58 ePd 52 28.10 0.0
0.5s 15.60nm
e 52 42.20
e 53 18.80
KLM 4.43 79 eP 52 27.80 -0.8
SNG 5.92 34 eP 52 57.80 8.2X
0.8s 65.67nm 5.3mb X
e 55 06.00
KGM 6.03 92 eP 52 55.50 4.3X
e 53 46.60
GBA 22.65 301 Pc 56 57.10 35.5X
0.7s 2.70nm
WRA 42.52 123 Pc 59 16.20 -0.1
0.2s 0.30nm 3.7mb
S.D. = 0.8 on 5 of 8 obs.

* JUN 23, 1990 10h 57m 04.87 ± 2.78s
33.765 S ± 11.5km 71.852 W ± 22.4km
DEPTH = 33.0km (normol)

NEAR COAST OF CENTRAL CHILE (135)

LCCH 0.37 39 iP 57 14.00 0.4
LNV 0.41 117 iPd 57 14.50 0.3
iS 57 23.00
IHA 0.76 13 iPc 57 18.70 -0.4
iS 57 29.70
TACH 0.77 82 iPd 57 19.00 -0.3
iS 57 30.50
CHCH 1.01 100 iPd 57 22.50 -0.3
iS 57 36.50
SAN 1.04 73 iPd 57 23.30 0.1
iS 57 37.50
ROCH 1.06 42 iPd 57 23.30 -0.3
iS 57 37.50
PCH 1.12 83 iPd 57 24.50 0.1
iS 57 39.50
PEL 1.16 58 iPd 57 25.10 0.3
iS 57 41.00
JACH 1.51 45 iPc 57 29.60 -0.4
iS 57 49.00
RTBS 2.91 45 e(P) 57 51.60 1.7
CFA 3.73 56 ePd 58 01.10 -0.5
S 58 37.90
RTLL 3.75 51 ePc 58 01.10 -0.7
eS 58 45.00
RTRS 4.12 30 eP 58 07.20 0.1
S.D. = 0.6 on 14 of 14 obs.

% JUN 23, 1990 11h 03m 44.33 ± 1.63s
40.836 N ± 15.4km 27.934 E ± 10.6km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

BNT 0.48 181 iPg 03 54.60 0.5
eSg 04 00.10
KGT 0.61 232 iPg 03 56.40 -0.3
iSg 04 04.40
ISK 0.88 75 ePn 04 01.90 0.6
YLV 1.13 103 iPn 04 04.40 -1.1
HRT 1.32 90 ePn 04 08.90 0.2
S.D. = 1.0 on 5 of 5 obs.

JUN 23, 1990 11h 14m 13.93 ± 0.55s
40.767 N ± 6.3km 27.993 E ± 4.5km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

EDC 0.43 193 iPg 14 23.40 0.7
KGT 0.61 239 iPg 14 25.40 -0.9
iSg 14 32.40
ISK 0.86 69 ePg 14 30.40 -0.1
eSg 14 44.40
YLV 1.07 100 iPg 14 33.40 -0.7
DMK 1.07 350 iPg 14 34.80 0.8
iSg 14 47.80
IZI 1.21 110 ePn 14 36.90 0.4
HRT 1.27 87 ePn 14 37.40 -0.2
ALN 1.48 276 eP 14 40.00 -0.6
EZN 1.58 234 ePn 14 42.70 0.6
S.D. = 0.7 on 9 of 9 obs.

JUN 23, 1990 11h 24m 28.96 ± 0.56s
40.786 N ± 6.2km 27.941 E ± 4.8km
DEPTH = 13.5 ± 5.3 km

TURKEY (366)

BNT 0.43 182 iPg 24 37.50 -0.3
eSg 24 42.50
EDC 0.44 188 iPg 24 38.40 0.3
iSg 24 43.40
KGT 0.59 236 iPg 24 40.40 -0.2
iSg 24 47.40
ISK 0.89 71 iPg 24 45.40 -0.3
iSg 24 57.90
DMK 1.04 352 iPg 24 48.30 0.0
iSg 25 01.30
YLV 1.11 101 iPn 24 48.40 -1.1
GBZT 1.14 89 ePn 24 51.40 1.4
iSg 25 08.30
HRT 1.31 88 ePn 24 52.90 0.0
ALN 1.44 275 eP 24 54.50 -0.1
eS 25 15.00
EZN 1.56 233 iPn 24 56.70 0.3
S.D. = 0.8 on 10 of 10 obs.

% JUN 23, 1990 11h 29m 08.37 ± 1.39s

23d 11h

40.755 N ±29.7km 27.946 E ±11.6km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

KGT 0.58 238 iPg 29 19.40 -0.6
 ISK 0.90 69 ePg 29 25.40 -0.2
 YLV 1.10 99 iPn 29 28.90 -0.2
 HRT 1.31 87 ePn 29 32.90 0.3
 EZN 1.55 234 ePn 29 36.70 0.7
 S.D. = 0.7 on 5 of 5 obs.

JUN 23, 1990 12h 24m 55.63± 0.41s
 40.806 N ± 3.9km 27.923 E ± 3.5km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

BNT 0.45 180 ePg 25 05.50 0.7
 EDC 0.46 186 iPg 25 04.90 -0.1
 CTT 0.51 48 iPg 25 05.50 -0.5
 KGT 0.59 233 iPg 25 06.90 -0.7
 ITU 0.88 70 ePg 25 13.00 0.5
 ISK 0.90 73 iPg 25 12.60 -0.2
 DMK 1.02 353 iPg 25 15.20 0.3
 YLV 1.13 102 iPn 25 15.80 -1.0
 GBZT 1.16 90 ePn 25 18.40 1.2
 IZI 1.27 111 ePn 25 18.90 -0.4
 HRT 1.32 89 ePn 25 19.40 -0.7
 ALN 1.43 274 eP 25 21.30 -0.2
 EZN 1.57 232 iPn 25 23.70 0.2
 GPA 1.89 105 ePn 25 29.00 0.7
 ALT 2.43 135 ePn 25 27.00 -9.1X
 KHL 2.77 153 ePn 25 46.00 5.0X
 VAY 4.08 279 ePn 26 45.40 46.0X
 MLR 4.90 343 ePc 26 11.50 0.3
 S.D. = 0.7 on 15 of 18 obs.

& JUN 23, 1990 13h 15m 57.71s
 61.826 N 150.670 W
 DEPTH = 54.0km
 SOUTHERN ALASKA (2)
 <AGS-P>

SUA 0.37 186 iP 16 08.10 0.1
 PWA 0.42 115 eP 16 08.09 -0.3
 SKT 0.44 291 iP 16 07.90 -0.7
 CUT 0.61 18 iP 16 09.83 -0.8
 PLRM 0.77 107 iP 16 11.72 -0.9
 PMS 0.79 137 eP 16 12.14 -0.8
 CGLM 0.82 231 iP 16 12.84 -0.6
 NCG 0.83 240 iP 16 12.69 -0.8
 GH0 0.83 93 iP 16 13.05 -0.5
 CRP 0.91 232 eP 16 14.01 -0.6
 SPU 0.93 226 iP 16 14.30 -0.5
 SML 1.11 90 iP 16 16.51 -0.8
 HUR 1.25 22 eP 16 18.61 -0.6
 SLKM 1.34 170 eP 16 19.70 -0.8
 SCM 1.59 88 eP 16 23.55 -0.4
 KTH 1.74 356 eP 16 25.24 -0.8
 RED 1.74 217 eP 16 25.83 -0.3
 SEW 1.83 160 eP 16 28.42 1.2
 GLI 1.97 117 eP 16 27.31 -1.9
 VZW 2.12 109 eP 16 32.71 1.3
 TOA 2.14 81 iP 16 31.50 -0.2
 KLU 2.29 96 eP 16 32.03 -1.8
 22 obs. associated

JUN 23, 1990 13h 17m 55.35± 1.51s
 0.810 N ± 5.9km 123.115 E ± 7.9km
 DEPTH = 38.8 ± 14.3 km
 5.1mb (14 obs.) 3.7MsZ (1 obs.)
 MINAHASSA PENINSULA (265)

TSM 6.07 304 ePd 19 26.00 0.9

0.2s 269.30nm 6.5mb X
 MKS 7.01 211 iPc 19 42.50 4.3X
 KKM 8.63 307 eP 20 00.00 -0.9
 TRT 0.5s 82.10nm 6.1mb X
 MTN 13.44 231 ePc 21 11.50 5.5X
 MBL 15.73 150 eP 21 37.00 1.1
 22.07 188 iPc 22 48.20 -0.5
 0.6s 26.00nm 4.8mb
 QIZ 22.30 325 P 22 50.40 -0.6
 IPM 22.38 280 ePd 22 55.90 4.1X
 0.7s 60.40nm 5.2mb
 PPI 22.75 267 eP 22 56.50 1.0
 SNG 23.31 286 eP 23 07.50 6.6X
 WB5 23.34 152 eP 23 01.00 -0.2
 PSI 24.25 275 ePd 23 11.90 1.8
 NANU 24.38 197 iPc 23 11.20 -0.1
 0.4s 22.00nm 5.1mb
 TSI 24.68 277 eP 23 22.00
 NNT 25.97 298 eP 23 06.00 -8.2X
 KDB 26.03 114 eP 23 14.20 -12.1X
 ASPA 26.49 157 eP 23 26.00 -0.9
 26.49 157 eP 23 30.00 -1.2
 Z 0.8s 28.00nm 4.9mb
 20s 0.25um 3.7MsZ
 LOE 26.73 309 eP 23 34.00 0.6
 MEKA 27.62 189 iPd 23 40.30 -1.1
 BDT 28.80 306 eP 23 52.00 -0.1
 CHG 29.70 308 iPd 24 04.90 4.6X
 1.0s 17.50nm 4.8mb
 GYA 30.02 330 eP 24 05.00 1.9
 MRWA 30.62 192 eP 24 07.00 -1.3
 FORR 31.84 172 iPd 24 17.20 -1.7
 e 24 32.00
 KLB 32.62 188 eP 24 24.00 -1.7
 MUN 33.26 191 eP 24 30.00 -1.3
 CD2 35.11 330 eP 24 46.70 -0.6
 XAN 35.63 340 P 24 50.90 -0.8
 RMQ 36.71 140 iPd 25 00.20 -0.6
 e 26 25.00
 e 27 23.40
 STK 36.93 153 iPc 25 02.80 0.3
 0.9s 38.00nm 5.3mb
 TIY 38.02 346 Pc 25 11.50 -0.3
 Z 16s 0.60um 4.5MsZ
 MAT 38.20 20 (P) 25 11.00 -2.3
 0.7s 6.16nm 4.6mb
 ADE 38.47 159 iPc 25 16.30 0.8
 0.6s 73.33nm 5.7mb
 CMS 38.68 148 eP 25 18.00 0.7
 SHL 38.90 312 iP 25 19.50 0.1
 LZH 39.39 335 eP 25 24.00 0.6
 Z 2.5s 53.00nm 4.9mb
 25s 0.40um 4.2MsZ
 BRS 39.99 137 iPc 25 28.00 -0.3
 i 25 37.00
 COO 41.52 141 eP 25 42.00 1.2
 LSA 41.84 316 P 25 45.80 1.8
 BWA 42.32 148 iPc 25 49.50 2.2
 e 26 04.60
 ePcP 27 40.90
 CAN 43.32 149 iPc 25 56.50 1.1
 i 26 11.70
 iPcP 27 43.80
 TOD 43.44 154 eP 25 57.00 0.7
 i 27 44.90
 CNB 43.58 148 eP 25 58.00 1.0
 GTA 43.92 334 P 26 00.80 0.5
 0.8s 20.00nm 4.9mb
 GUN 44.68 310 P 26 07.60 0.6
 0.6s 47.00nm 5.5mb
 PKI 44.87 310 P 26 08.20 -0.3
 DMN 45.12 310 P 26 10.00 -0.4
 GKN 45.68 310 P 26 14.60 -0.1
 0.8s 36.00nm 5.3mb
 HYB 46.82 293 eP 26 24.00 0.4
 1.0s 60.00nm 5.5mb
 e 26 35.00
 GBA 46.96 288 Pd 26 24.30 -0.4
 0.6s 8.50nm 4.9mb
 DZM 47.98 121 iPc 26 32.10 -0.7
 NDI 51.82 307 iPc 27 00.00 -2.0
 WMQ 53.17 328 eP 27 11.50 -0.4
 QUE 60.72 304 eP 28 04.60 -1.3
 ePP 28 15.10
 MAIO 68.46 309 eP 28 55.00 -1.0

MAW 79.79 200 eP 29 06.00
 BUL 94.50 250 iPc 31 09.10 -4.6X
 CNCB 160.71 146 PKP 37 54.00 0.2
 LPB 160.86 145 ePKP 37 55.00 1.3
 ZOBO 161.06 145 PKP 37 55.80 1.7
 CCH 161.18 152 (PKP) 37 51.00 -2.9X
 S.D. = 1.1 on 52 of 61 obs.

* JUN 23, 1990 13h 57m 21.56± 1.13s
 22.294 S ±20.3km 175.048 E ±17.6km
 DEPTH = 33.0km (normol)
 5.0mb (2 obs.) 4.4MsZ (2 obs.)
 SOUTH OF FIJI ISLANDS (171)

SVA 5.25 38 eP 58 38.60 -1.2
 eS 58 40.90
 VUN 5.34 38 eP 58 39.30 -1.7
 eS 59 41.90
 SGE 5.41 31 iP 58 43.00 0.9
 eS 59 49.60
 DZM 7.98 270 iPc 59 17.50 -0.7
 iS 00 47.60
 HNR 19.33 309 eP 01 47.00 -0.1
 BR5 20.83 251 iP 02 03.00 0.1
 COO 22.29 243 eP 02 19.00 1.4
 RMQ 24.29 255 iPc 02 37.90 0.8
 CAN 26.17 235 eP 02 55.60 0.8
 BWA 26.28 237 eP 02 54.30 -1.6
 CMS 27.55 244 e(P) 03 06.00 -1.5
 ASPA 37.81 260 iPc 04 35.80 -1.1
 0.9s 21.00nm 5.0mb
 Z 22s 0.69um 4.4MsZ
 LR 19 13.00
 WB5 37.95 266 eP 04 35.60 -2.5
 MAT 68.08 329 (P) 08 21.00 0.9
 CHG 84.85 293 eP 09 56.90 2.3
 FRI 85.15 47 eP 10 03.10 7.4X
 CMB 85.26 46 eP 09 59.80 3.5X
 KVN 87.32 46 eP 10 18.00 3.4X
 LZH 88.82 310 eP 10 16.00 2.1
 Z 25s 0.50um 4.8MsZ
 pP 10 24.00 25kmX
 i 10 44.00
 FBA 91.51 15 eP 10 32.50 7.0X
 1.0s 5.50nm 4.9mb
 ZOBO 107.24 116 ePd diff 11 49.00 10.7X
 Z 22s 0.12um 4.4MsZ
 LR 47 22.00
 KRA 146.09 331 ePKP 17 00.10 1.4
 SPC 146.56 330 ePKP 17 03.30 3.5X
 KSP 147.03 335 ePKP 17 04.00 3.8X
 CLL 147.85 339 iPKPc 17 06.00 4.5X
 i 17 19.10
 BRG 147.88 337 ePKP 17 05.60 4.0X
 PRU 148.39 336 ePKP 17 07.10 4.7X
 e 17 15.00
 SRO 148.44 329 ePKP 17 10.00 7.5X
 ZST 148.72 331 ePKP 17 07.70 4.7X
 KHC 149.45 336 PKP 17 10.50 6.3X
 VAY 150.08 316 ePKP 17 10.60 5.3X
 SKO 150.45 318 iPKP 17 12.10 6.3X
 BCAO 151.15 235 iPKPc 17 13.40 5.7X
 1.1s 22.00nm
 OHR 151.33 317 ePKP 17 14.00 6.8X
 S.D. = 1.6 on 17 of 34 obs.

JUN 23, 1990 14h 10m 43.19± 0.35s
 39.032 N ± 3.7km 22.249 E ± 3.3km
 DEPTH = 21.4 ± 3.3 km
 4.0mb (4 obs.) 3.1MsZ (1 obs.)
 GREECE (364)
 ML 3.6 (THE), 3.6 (TTG), 3.5 (ATH).

AGG 0.06 99 ePg 10 46.60 -0.6
 NEO 0.81 70 ePn 10 58.30 -0.1
 LIT 1.08 10 ePgc 11 01.80 -1.3
 PAIG 1.42 51 iPbd 11 08.50 0.6
 eSb 11 26.70
 VLS 1.55 237 ePn 11 09.00 -0.8
 ATH 1.56 132 ePb 11 11.50 1.6
 IGT 1.57 289 ePb 11 11.60 1.6
 THE 1.69 19 ePb 11 11.60 -0.1
 ITM 1.87 188 ePb 11 16.20 1.9
 GRG 1.93 3 ePb 11 15.10 -0.1
 KEK 2.02 290 ePn 11 18.00 1.5

23d 15h

BDI	144.81	331 PKP	06 09.50	-1.6
SDI	144.87	325 PKP	06 10.20	-1.0
AZI	144.89	326 PKP	06 11.00	-0.1
BSS	144.92	323 PKP	06 10.90	-0.3
LBF	145.00	341 ePKP	06 10.90	-0.4
1.4s 34.85nm				
GRR	145.02	347 ePKP	06 10.60	-0.6
0.8s 10.75nm				
SSF	145.08	341 ePKP	06 11.30	0.0
1.4s 67.55nm				
LPL	145.30	337 ePKP	06 12.70	0.6
1.3s 25.25nm				
LPG	145.30	337 ePKP	06 12.60	0.4
1.4s 47.90nm				
SMF	145.35	341 ePKP	06 11.90	0.1
1.6s 80.85nm				
AVF	145.37	341 ePKP	06 11.90	0.1
1.2s 31.25nm				
LPF	145.39	347 ePKP	06 12.20	0.4
1.2s 44.65nm				
RMP	145.40	327 PKP	06 12.90	0.8
RDP	145.43	326 PKP	06 12.90	0.7
BNI	145.71	336 PKP	06 13.70	1.0
BGF	145.74	342 ePKP	06 13.30	0.8
1.2s 28.25nm				
SOI	145.83	319 PKP	06 13.50	0.6
PLDF	146.01	340 PKP	06 09.70	-3.4X
AGO	146.10	341 PKP	06 09.34	-3.8X
MAF	146.12	342 ePKP	06 14.90	1.7
1.6s 43.55nm				
TCF	146.17	342 ePKP	06 14.80	1.6
1.4s 41.40nm				
LSF	146.40	343 ePKP	06 15.20	1.6
PYM	146.41	341 PKP	06 09.34	-4.4X
MFF	146.53	345 ePKP	06 15.30	1.6
1.2s 26.80nm				
LBL	146.79	340 PKP	06 10.98	-3.2X
RJF	147.27	342 ePKP	06 18.30	3.3X
1.4s 34.85nm				
CAI	147.48	128 iPKPd	06 17.70	1.5
LFF	147.83	343 ePKP	06 19.40	3.5X
1.4s 56.65nm				
LPO	147.93	342 ePKP	06 20.10	4.0X
1.0s 12.00nm				

S.D. = 1.1 on 114 of 129 obs.

* JUN 23, 1990 14h 48m 45.86±0.82s
37.335 N ±11.7km 48.945 E ±11.9km
DEPTH = 10.0km (geophysicist)
4.2mb (4 obs.)
NORTHWESTERN IRAN (345)

TAB	2.20	290 eP	49 23.50	0.4
TEH	2.53	128 ePd	49 27.50	-0.3
KER	3.33	207 eP	49 40.00	0.8
MLR	19.03	303 eP	52 51.00	-19.5X
VAY	20.76	289 eP	53 27.00	-2.2
SKO	21.64	291 eP	53 37.70	-0.5
OHR	22.09	289 eP	53 42.00	-0.8
KRA	24.35	311 eP	54 06.10	1.4
e 54 09.10				
GKN	31.30	97 P	55 00.00	-8.5X
HFS	31.94	327 eP	55 14.70	1.1
0.7s 4.70nm 4.5mb				
NB2	33.45	327 P	55 27.70	0.9
0.8s 1.30nm 3.9mb				
EKA	39.16	314 P	56 18.00	2.8X
0.7s 3.00nm 4.1mb				
MBC	66.45	357 eP	59 36.00	-0.9
0.5s 1.00nm 4.3mb				

S.D. = 1.3 on 10 of 13 obs.

? JUN 23, 1990 14h 49m 29.48±2.02s
42.221 N ±18.6km 7.440 W ± 9.8km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 2.7 (MDD).

ERUA	0.28	52 iP	49 35.20	-0.2
eS 49 39.20				
EZAM	0.94	266 eP	49 47.50	0.2
eS 49 58.30				
STS	1.06	309 iP	49 49.00	-0.4
eS 50 02.50				
EMON	1.22	4 eP	49 52.50	0.4
eS 50 07.60				

S.D. = 0.6 on 4 of 4 obs.

& JUN 23, 1990 15h 30m 08.20s
51.114 N 124.410 W
DEPTH = 5.0km (geophysicist)
BRITISH COLUMBIA (23)
<PGC>. ML 3.0 (PGC). Second
event, ML 2.9, occurred about 19
seconds later (PGC).

CBB	1.24	210 Pd	30 29.42	-2.3
S 30 45.03				
WHB	1.35	136 P	30 31.73	-2.0
S 30 48.53				
SHB	1.56	167 Pd	30 34.21	-2.5
S 30 53.90				
WPB	1.65	152 Pd	30 36.43	-1.5
S 30 56.92				
GDR	1.69	218 Pd	30 37.12	-1.4
S 30 58.09				
BTB	1.80	204 Pd	30 38.52	-1.7
S 31 01.69				
BIB	1.85	157 Pd	30 39.14	-1.7
S 31 02.50				
ALB	1.86	188 P	30 38.96	-2.1
S 31 03.63				
NAB	1.91	172 P	30 39.76	-2.0
PHC	1.96	259 P	30 41.69	-0.6
MGB	2.12	185 P	30 43.01	-1.9
S 31 09.79				
EDB	2.13	235 P	30 43.81	-1.1
S 31 11.83				
HNB	2.19	147 P	30 43.68	-2.0
OZB	2.27	198 P	30 45.54	-1.4
S 31 14.90				
SNB	2.47	161 P	30 48.28	-1.6
PGC	2.54	166 P	30 49.14	-1.6
PFB	2.55	180 P	30 49.46	-1.4
VDB	2.56	144 P	30 48.93	-2.2
MCW	2.64	157 P	30 50.37	-1.9
VGZ	2.79	165 P	30 52.64	-1.7
OSP	2.83	182 P	30 56.77	1.7
MBW	2.84	144 P	30 53.41	-1.8
STW	3.01	171 P	30 56.53	-0.8
OTR	3.03	179 P	30 57.39	-0.4
OHW	3.05	156 P	30 57.18	-0.7
CMW	3.08	150 P	30 56.98	-1.4
OFK	3.17	179 P	30 58.74	-0.9
BLN	3.25	163 P	31 00.45	-0.4
RPW	3.26	144 P	31 00.10	-1.0
OSD	3.33	172 P	31 01.28	-0.9
JCW	3.34	150 P	31 00.53	-1.6
OOW	3.38	177 P	31 01.77	-1.1
HDW	3.58	165 P	31 04.78	-0.8
HTW	3.73	152 P	31 05.73	-1.1
NLW	4.03	137 P	31 10.17	-1.9
GSM	4.27	155 P	31 14.00	-1.5
ETW	4.41	141 P	31 17.08	-0.4
WTV	4.49	138 P	31 18.37	-0.1
FMW	4.56	156 P	31 18.00	-1.6
TBM	4.67	146 P	31 20.82	-0.3
MDW	5.45	144 P	31 30.76	-1.3

41 obs. associated

? JUN 23, 1990 15h 53m 07.98±5.68s
18.458 N ±38.5km 65.743 W ±35.1km
DEPTH = 33.0km (normal)
PUERTO RICO REGION (90)

LPR	0.19	219 P	53 14.60	0.0
CPD	0.45	202 P	53 17.80	0.0
SJG	0.52	228 iP	53 19.00	0.1
PORP	0.94	245 P	53 24.70	-0.1
MGP	1.36	251 P	53 30.80	0.1

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

JUN 23, 1990 16h 35m 13.62±0.54s
6.806 N ± 5.9km 72.949 W ± 9.5km
DEPTH = 158.9 ± 5.6 km
4.7mb (10 obs.)
NORTHERN COLUMBIA (99)

BMG	0.29	335 eP	35 36.50	-0.3
FUO	1.54	211 eP	35 44.50	-0.5
BOG	2.44	207 iPc	35 56.50	1.3
iS 36 25.50				
UPA	6.87	289 (P)	36 44.00	-9.0X
PSO	7.08	218 eP	36 55.50	-0.8

ZOBO	23.42	168 P	40 10.00	-0.2
1.0s 32.50nm 4.8mb				
i 40 44.00				
LPB	23.68	168 eP	40 06.00	-6.5X
e 40 41.00				
e 47 25.00				
CNCB	23.97	168 P	40 16.00	0.5
i 40 51.00				
i 47 13.00				
CCH	24.96	164 (P)	40 08.40	-16.0X
SIV	25.52	153 (P)	40 46.00	16.7X
i 41 02.20				
RSCP	30.91	340 iP	41 18.50	1.1
0.8s 20.03nm 4.9mb				
GOL	43.81	323 iP	43 06.00	0.3
1.0s 50.00nm 5.1mb				
SCH	48.13	5 eP	43 40.00	0.9
BW06	48.20	324 iP	43 40.00	-0.1
1.1s 8.93nm 4.4mb				
TNP	50.69	315 eP	43 59.50	0.3
1.0s 4.50nm 4.1mb				
LRM	51.69	325 eP	44 06.50	-0.1
KVN	51.74	315 iP	44 07.00	-0.1
FFC	53.16	339 iPc	44 16.30	-0.7
0.4s 8.00nm 4.9mb				
SES	53.80	331 eP	44 22.00	0.1
NEW	55.70	326 iP	44 35.00	-0.7
1.0s 3.25nm 4.2mb				
YKA	63.34	340 eP	45 26.60	-1.0
0.5s 11.90nm 5.1mb				
LIC	67.43	86 P	45 54.20	-0.4
0.6s 4.50nm 4.5mb				
KIC	67.71	86 P	45 56.10	-0.3
INK	73.10	340 eP	46 28.00	0.2
MBC	73.85	350 ePc	46 32.40	0.4
0.6s 11.00nm 4.8mb				
WB5	150.48	241 ePKP	54 48.10	5.1X

S.D. = 0.7 on 21 of 26 obs.

JUN 23, 1990 16h 39m 56.82±0.83s
36.434 N ±10.8km 27.330 E ± 6.5km
DEPTH = 33.0km (normal)
ODDECANESE ISLANDS (369)

YER	1.04	47 ePn	40 14.90	-0.2
CIN	1.31	27 eP	40 19.00	0.1
SMG	1.33	343 eP	40 20.20	1.0
APE	1.58	294 eP	40 21.00	-1.3
KSL	1.85	99 eP	40 27.00	0.3
ELL	2.10	81 ePn	40 30.00	-0.5
VAM	2.74	249 eP	40 40.00	0.6

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

JUN 23, 1990 16h 40m 33.36±0.87s
38.570 N ± 6.1km 24.649 E ± 8.7km
DEPTH = 33.0km (normal)
AEGEAN SEA (365)
ML 3.4 (ATH).

ATH	0.95	231 ePn	40 50.40	0.1
eSn 41 03.50				
NEO	1.33	304 ePn	40 55.00	-0.8
PAIG	1.55	331 ePgc	40 57.00	-1.9
EZN	1.81	46 iPn	41 02.60	-0.1
OUR	1.84	344 ePb	41 02.90	-0.2
eSb 41 18.20				
AGG	1.87	285 ePbd	41 06.50	2.9X
eSb 41 27.60				
LIT	2.27	313 ePb	41 10.20	0.9
VLI	2.29	217 ePn	41 09.00	-0.6
SOH	2.46	336 ePb	41 11.70	-0.4
iSb 41 35.70				
ALN	2.56	24 ePn	41 18.40	5.0X
eSn 41 46.90				
ITM	2.56	238 ePn	41 13.60	0.1
RDO	2.66	15 ePn	41 16.00	1.2
SRS	2.67	343 ePn	41 14.90	-0.1
iSn 41 42.60				
KNT	2.92	333 ePn	41 18.50	0.0
eSn 41 47.40				
GRC	2.95	325 ePnc	41 18.80	-0.1
eSn 41 46.50				
VAY	3.18	330 ePn	41 22.50	0.3
IGT	3.50	287 ePn	41 28.40	1.7
OHR	3.90	312 ePn	41 35.20	2.7X
SKO	4.19	325 ePn	41 30.00	-6.6X

S.D. = 0.9 on 15 of 19 obs.

JUN 23, 1990 16h 51m 32.01 ± 0.50s
37.169 N ± 9.4km 49.922 E ± 7.5km
DEPTH = 10.0km (geophysicist)
4.5mb (9 obs.)

CASPIAN SEA (338)

Table with columns: Station, Time, Lat/Long, Depth, and other parameters. Includes stations like TEH, TAB, KER, MAIO, QUE, CLL, SOTA, HFS, LPG, LPL, BNI, LOR, SMF, AVF, MAF, TCF, LDF, GRR, LPF, BCAO.

S.D. = 0.9 on 18 of 20 obs.

JUN 23, 1990 17h 40m 33.73 ± 1.11s
15.033 N ± 2.9km 60.399 W ± 12.9km
DEPTH = 33.0km (normal)

LEEWARD ISLANDS (92)
ML 3.7 (FDF). MD 3.6 (TRN). Felt (11) on Martinique.

Table with columns: Station, Time, Lat/Long, Depth, and other parameters. Includes stations like CRM, MVM, FDF, BIM, SLW, BBL, MGG, SLB, SFG, DOG, PAC, SEG, SOA, SVV, SVB, MGH, BPA, NEV, SKI.

S.D. = 0.3 on 19 of 19 obs.

* JUN 23, 1990 17h 46m 53.59 ± 1.70s
17.409 S ± 7.8km 174.495 W ± 10.5km
DEPTH = 231.3 ± 16.6 km
4.4mb (3 obs.)
TONGA ISLANDS (173)

Table with columns: Station, Time, Lat/Long, Depth, and other parameters. Includes stations like VUN, DZM, PUZ, NOZ, WLZ, TAZ, UTU, LTZ, BRS, RMO, WB5, ASPA, KVN, TNP, BW06, SES, CLL, KHC.

S.D. = 0.5 on 16 of 18 obs.

& JUN 23, 1990 18h 04m 29.94s
41.907 N 112.402 W
DEPTH = 9.6km

UTAH (478)
<SLC-P>. ML 2.7 (SLC).

Table with columns: Station, Time, Lat/Long, Depth, and other parameters. Includes stations like PTI, DAU, DUG, HPI, BW06.

& JUN 23, 1990 18h 11m 34.51s
41.903 N 112.405 W
DEPTH = 8.1km

UTAH (478)
<SLC-P>. ML 2.3 (SLC).

Table with columns: Station, Time, Lat/Long, Depth, and other parameters. Includes stations like PTI, DAU, DUG, HPI.

& JUN 23, 1990 18h 31m 31.06s
41.909 N 112.403 W
DEPTH = 9.8km

UTAH (478)
<SLC-P>. ML 2.4 (SLC).

Table with columns: Station, Time, Lat/Long, Depth, and other parameters. Includes stations like PTI, DAU, DUG, HPI.

? JUN 23, 1990 18h 45m 22.60 ± 1.19s
37.094 N ± 13.1km 50.262 E ± 13.7km
DEPTH = 10.0km (geophysicist)
4.3mb (1 obs.)

CASPIAN SEA (338)

Table with columns: Station, Time, Lat/Long, Depth, and other parameters. Includes stations like TEH, TAB, KER, MAIO, QUE, HFS.

S.D. = 0.2 on 4 of 6 obs.

JUN 23, 1990 18h 53m 27.96 ± 0.73s
37.840 N ± 6.5km 22.994 E ± 7.9km
DEPTH = 10.0km (geophysicist)

SOUTHERN GREECE (368)
ML 2.6 (ATH).

Table with columns: Station, Time, Lat/Long, Depth, and other parameters. Includes stations like ATH, ITM, VLI, AGG, VLS.

LIT 2.29 350 ePd 54 05.90 -0.5
VAM 2.62 158 ePn 54 12.50 1.5
S.D. = 1.2 on 7 of 7 obs.

* JUN 23, 1990 19h 45m 43.88 ± 1.17s
28.401 N ± 11.4km 140.068 E ± 14.7km
DEPTH = 443.9 ± 9.9 km
4.2mb (4 obs.)

BONIN ISLANDS REGION (212)

Table with columns: Station, Time, Lat/Long, Depth, and other parameters. Includes stations like CHJJ, KAKJ, TSRJ, MAT, MTMJ, NIJJ, YAMJ, OFUJ, GUN, PKI, DMN, WB5, GKN, KEV, SOD, SUF, NUR, HFS, NB2.

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

* JUN 23, 1990 20h 21m 12.10 ± 0.83s
32.103 N ± 17.3km 131.114 E ± 14.3km
DEPTH = 117.0 ± 8.4 km
4.4mb (5 obs.)

KYUSHU, JAPAN (235)

Table with columns: Station, Time, Lat/Long, Depth, and other parameters. Includes stations like KUMJ, KAGJ, MAT, TIY, LZH, GUN, PKI, MBC, HFS, NB2, CLL.

S.D. = 1.1 on 10 of 11 obs.

% JUN 23, 1990 20h 52m 58.74 ± 0.78s
40.812 N ± 5.4km 28.009 E ± 6.5km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

Table with columns: Station, Time, Lat/Long, Depth, and other parameters. Includes stations like BNT, EDC, ISK, DMK, YLV, IZI, HRT.

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

* JUN 23, 1990 21h 20m 58.04 ± 1.01s
7.340 N ± 11.8km 77.894 W ± 10.4km
DEPTH = 33.0km (normal)

PANAMA-COLOMBIA BORDER REGION (82)

Table with columns: Station, Time, Lat/Long, Depth, and other parameters. Includes stations like UPA.

MJMA	141.63	285	ePKPd	57 25.30	-5.5X	PRNI	150.45	294	ePKPd	57 46.40	1.4										
BLS1	142.14	357	iPKP	57 24.98	-5.7X	CMP	150.49	328	iPKPc	57 48.00	3.4X			AKSR	152.71	280	iPKPc	57 49.50	1.1		
DHJN	142.22	271	ePKPc	57 28.70	-3.6X	MTUR	150.51	328	ePKPd	57 40.50	-4.2X			FUR	152.74	349	ePKP	57 48.00	0.2		
BLS2	142.23	357	iPKP	57 25.58	-5.3X	BUC	150.56	326	iPKPd	57 40.00	-4.6X			KDZ	152.78	322	iPKP	57 48.00	0.0		
KMY	142.37	359	iPKP	57 25.71	-5.2X	HOF	150.56	349	iPKPd	57 44.40	-0.2			STR	152.83	354	PKP	57 49.07	1.2		
SRAT	142.60	272	ePKP	57 29.10	-3.8X	GPA	150.57	315	ePKP	57 44.00	-0.9			BHG	152.84	346	iPKPd	57 47.50	-0.4		
KMTA	142.91	272	ePKP	57 30.50	-2.9X	PSZ	150.59	337	iPKP	57 44.90	0.2			PGB	152.86	325	iPKPc	57 48.00	-0.2		
ABHA	143.03	272	ePKPc	57 31.90	-1.7	BUC1	150.64	326	ePKPd	57 44.00	-0.8			LDZ	152.88	5	ePKP	57 47.70	-0.2		
OASM	143.22	285	ePKPd	57 29.70	-3.8X	CSS	150.67	304	ePKP	57 44.50	-0.7			AGAL	152.88	280	ePKP	57 50.00	1.3		
AFIF	143.44	282	ePKPd	57 31.30	-2.7	HRT	150.70	317	ePKP	57 44.00	-1.1			ALN	152.89	320	iPKP	57 48.60	0.4		
COP	145.29	351	iPKPd	57 35.30	-0.7	RMN	150.74	294	ePKP	57 46.60	1.1			eSn	59 31.00						
	0.9s		2252.10nm			ENN	150.80	357	iPKPd	57 44.90	0.1			AGRW	152.90	280	iPKPc	57 50.50	1.8		
BSD	145.43	348	iPKPd	57 35.10	-1.1		0.8s		453.00nm					BE0	152.93	333	ePKP	57 47.00	-1.1		
	0.6s		350.00nm											i							
LWI	145.78	229	iPKPd	57 39.30	0.9					57 51.00				AKRL	152.99	280	iPKPc	57 50.00	1.2		
EKA	145.91	7	PKP	57 36.00	-1.1	UCC	150.82	359	ePKPd	57 45.10	0.3			GRR	153.01	6	ePKP	57 48.20	0.1		
	1.7s		1167.40nm						e	57 50.90				1.6s		298.50nm					
GAZ	146.98	306	iPKP	57 39.50	0.2				e	58 38.00				WLS	153.04	354	PKP	57 48.86	0.6		
DCN	147.22	12	ePKP	57 39.70	0.5				e	00 22.00				CDF	153.05	354	PKP	57 48.80	0.5		
	0.6s		375.00nm						S	08 04.00				RZN	153.15	323	iPKPd	57 48.00	-0.8		
DLE	147.41	11	ePKP	57 40.30	0.8	GBZT	150.86	317	ePKP	57 46.70	1.5			ECH	153.25	355	PKP	57 49.07	0.6		
	0.7s		276.00nm			MEM	150.95	357	iPKPd	57 45.22	0.2			VTS	153.33	326	iPKP	57 49.00	0.0		
KAS	147.76	315	iPKPd	57 40.60	0.0				ic	57 51.22				VITF	153.34	356	PKP	57 49.60	1.1		
IAS	147.89	328	ePKP	57 47.00	6.5X	ISK	150.95	318	ePKP	57 44.50	-0.9			LPF	153.34	7	ePKP	57 48.60	0.0		
ETA	148.03	11	ePKP	57 42.00	1.5	ITU	150.96	318	iPKPd	57 44.00	-1.4			1.8s		431.60nm					
YRH	148.16	9	ePKP	57 42.60	1.8	DEV	151.03	331	iPKPc	57 57.00	11.7X			EZN	153.37	318	iPKP	57 48.50	-0.4		
BRN	148.31	349	ePKPd	57 41.50	0.6	YLV	151.03	317	iPKP	57 44.20	-1.4			FEL	153.50	353	PKP	57 48.37	-0.6		
CLI	148.47	328	ePKPc	57 42.50	1.0	IZI	151.09	316	ePKP	57 45.00	-0.7			HAU	153.52	356	ePKP	57 48.60	-0.3		
ECP	148.50	12	ePKP	57 43.50	2.3	TNS	151.14	353	ePKPd	57 45.20	-0.3			1.9s		362.35nm					
PPE	148.54	327	ePKPc	57 46.00	4.4X				i	57 52.10				YER	153.53	311	ePKP	57 48.50	-0.8		
PTT	148.64	329	ePKP	57 43.00	1.3	SRO	151.23	339	ePKP	57 45.70	0.1			SLE	153.56	352	ePKPc	57 49.10	0.1		
WIT	148.71	356	ePKP	57 43.00	1.4				i	57 52.70				MOF	153.62	355	PKP	57 49.73	0.6		
			e	58 38.00		BUD	151.27	338	iPKP	57 46.00	0.4			HLW	153.66	294	ePKP	57 49.20	-0.4		
			e	01 15.00		GRF	151.28	350	iPKPd	57 46.20	0.6			SOTA	153.66	348	iPKPd	57 49.00	-0.2		
KRA	148.75	339	ePKP	57 41.50	-0.3		Z	22s	4.00um	6.2Msz				2.2s		809.00nm					
	1.0s		918.00nm							e(SKs)	08 05.00										
			i	57 46.00		ZST	151.28	341	iPKPd	57 46.40	0.8					i	57 57.50				
			i	57 55.30						i	57 53.10						58 09.60				
			i	58 58.00						i	58 44.30			BSF	153.66	355	PKP	57 49.85	0.6		
CFR	148.95	325	ePKPc	57 42.50	0.3					e	01 12.90			PTJ	153.68	340	iPKPd	57 49.10	-0.2		
UZH	149.10	335	iPKPc	57 45.00	2.7X					e	01 31.60			ZAG	153.75	340	iPKPd	57 49.50	0.3		
KSP	149.11	344	iPKPc	57 42.70	0.4									ZLA	153.85	352	ePKPc	57 48.90	-0.5		
			id	57 47.30		CTT	151.30	319	iPKP	57 44.70	-1.2			FVI	153.92	345	PKP	57 48.70	-0.7		
			i	58 39.50		DRA	151.30	328	ePKP	57 53.00	7.2X			SAX	153.95	351	ePKPd	57 49.90	0.1		
			i	01 12.00		ALT	151.33	313	ePKP	57 44.00	-2.2			LJU	153.98	342	iPKPd	57 49.60	0.0		
			e	07 55.00		KHC	151.35	346	iPKP	57 46.30	0.5			eS	08 17.00						
			e	20 04.00			Z	18s	2.40um	6.0Msz				OGA	154.03	348	iPKPd	57 50.30	0.4		
BHL	149.15	300	PKPd	57 43.00	0.0		N	20s	3.80um				LOMF	154.14	355	PKP	57 50.39	0.6			
			S	01 28.00			E	20s	8.40um				SRS	154.15	323	ePKPd	57 54.40	4.4X			
BBTK	149.15	313	iPKP	57 48.00	5.1X	VKA	151.45	342	iPKPd	57 46.30	0.4		VOY	154.17	343	iPKP	57 49.00	-0.9			
VRI	149.23	327	ePKPc	57 43.00	0.3		2.4s		4710.00nm				VBY	154.25	341	iPKPd	57 50.30	0.4			
HRI	149.23	299	ePKPd	57 44.70	1.5		Z	17s	3.80um	6.3MszX			BLY	154.28	337	ePKP	58 03.00	13.0X			
SPC	149.39	338	iPKPd	57 42.80	-0.3								CEY	154.29	342	ePKPd	57 49.90	-0.1			
			i	57 47.60									LOR	154.36	359	ePKP	57 50.00	0.0			
			i	58 42.60										2.0s		546.65nm					
CLL	149.40	348	iPKP	57 42.30	-0.4								OSS	154.37	349	ePKPd	57 50.50	0.2			
	2.2s		1350.00nm										LLS	154.37	351	ePKPd	57 50.40	0.1			
			i	57 47.60									OUR	154.46	322	ePKPc	57 43.20	-7.1X			
			pPKP	58 37.00		PPCY	151.46	304	ePKP	57 45.50	-0.8		TRI	154.50	343	iPKPd	57 49.70	-0.5			
TLB	149.41	324	ePKPc	57 54.40	11.5X																
GLH	149.43	298	ePKPd	57 45.20	1.9	WET	151.49	347	iPKPd	57 46.20	0.2						58 41.00				
DBN	149.49	358	ePKP	57 40.00	-2.8X	DOU	151.52	359	PKPc	57 46.50	0.6						01 04.00				
	Z	20s	2.20um		6.0Msz													05 40.00			
			e	58 37.00														09 24.00			
WTS	149.52	356	iPKPd	57 43.00	0.2													11 53.00			
	0.8s		614.00nm											KNT	154.50	324	ePKPd	57 56.90	6.5X		
			i	57 48.00										SSF	154.57	0	ePKP	57 50.40	0.1		
			e	58 41.00		JMB	151.59	322	ePKP	57 47.00	0.7			VAY	154.57	325	iPKP	57 49.40	-1.0		
BRG	149.63	347	ePKPd	57 41.60	-1.5	BCK	151.75	310	iPKP	57 45.40	-1.4							57 57.70			
			i	57 47.40		PVL	151.78	325	iPKPd	57 46.00	-0.5							i	58 11.30		
			iPKP	58 40.20		BZS	151.80	333	ePKP	57 47.00	0.5			LBF	154.64	359	ePKP	57 50.50	0.1		
			eSKKS	07 54.50		WLF	151.88	356	iPKPd	57 53.82	7.4X			RIY	154.66	342	iPKP	57 51.20	0.8		
CEI	149.80	334	ePKP	57 51.00	7.6X	BNT	152.07	318	iPKP	57 46.20	-0.9			SKO	154.68	328	iPKPd	57 50.00	-0.6		
ISR	149.83	327	ePKPc	57 45.00	1.4	KHL	152.09	313	iPKP	57 46.10	-1.2				2.0s		1407.00nm				
JVI	149.86	297	ePKPd	57 45.40	1.4	EDC	152.11	318	iPKP	57 46.10	-1.0							i	58 00.50		
MLR	149.88	328	iPKPc	57 43.50	-0.3	KMR	152.23	345	iPKP	57 47.40	0.3							i	58 14.00		
PSN	149.91	323	iPKPc	57 44.00	0.3													i	59 12.00		
ZNT	150.05	297	ePKP	57 46.00	1.7													i	01 52.00		
PDA	150.11	51	iPKPd	57 46.00	1.8													i	02 38.00		
FAM	150.14	303	ePKP	57 44.50	0.2	KGT	152.40	318	iPKP	57 48.20	0.7			IVA	154.73	331	ePKP	57 51.00	0.3		
MOX	150.29	350	iPKPd	57 44.00	-0.1	GW	152.45	354	PKP	57 47.00	-0.4			THE	154.83	323	ePKPd	57 50.10	-0.7		
	2.2s		5088.00nm			ELL	152.55	309	iPKP	57 48.50	0.5										

LPF	143.88	346	ePKP	26	59.10	-0.3
	1.0s		12.00nm			
SOI	143.89	318	PKP	26	58.50	-1.2
BNI	143.98	335	PKP	26	56.50	-3.4X
BGF	144.11	340	ePKP	26	58.50	-1.4
	1.0s		10.00nm			
ATN	144.22	319	PKP	26	53.00	-7.3X
PLDF	144.36	339	PKP	26	59.68	-0.7
AGO	144.46	340	PKP	26	59.58	-0.9
MAF	144.50	340	ePKP	26	59.90	-0.6
	1.0s		14.00nm			
TCF	144.56	341	ePKP	26	59.90	-0.8
	1.0s		11.00nm			
SBF	144.62	333	ePKP	27	00.10	-0.8
	1.0s		64.00nm			
PYM	144.77	340	PKP	27	00.89	-0.2
LSF	144.80	342	ePKP	27	00.60	-0.5
	1.0s		24.00nm			
PGF	144.92	330	ePKP	27	01.40	-0.1
	1.0s		58.00nm			
MFF	144.97	344	ePKP	27	01.10	-0.2
	1.0s		32.00nm			
LBL	145.13	339	PKP	27	02.53	1.0
FRF	145.20	334	ePKP	27	02.20	0.4
	0.8s		26.85nm			
LRG	145.41	334	ePKP	27	03.10	1.0
	1.0s		26.00nm			
RJF	145.65	341	ePKP	27	04.00	1.5
	1.0s		20.00nm			
CAF	145.81	340	ePKP	27	03.30	0.4
	1.0s		15.00nm			
LPO	146.31	341	ePKP	27	05.60	2.0
	1.0s		16.00nm			
BCAO	146.96	257	iPKPd	27	05.00	-0.6
	1.2s		84.00nm			
STS	150.27	352	ePKP	27	16.00	6.1X
ETOR	150.82	342	ePKP	27	18.00	7.1X
GUD	151.58	345	ePKP	27	19.50	7.4X
TOL	152.27	344	ePKP	27	21.50	8.5X

S.D. = 1.2 on 62 of 75 obs.

JUN 23, 1990 23h 35m 00.68 ± 0.67s
 36.452 N ± 4.3km 70.578 E ± 3.1km
 DEPTH = 204.6 ± 7.1 km
 4.7mb (62 obs.)

HINDU KUSH REGION (718)

KSH	5.22	53	Pc	36	19.20	0.5
			S	37	13.50	
QUE	6.94	207	iPd-	36	41.20	0.1
	1.2s		6375.00nm			6.7mb X
			e(S)	37	59.00	
MAIO	8.94	272	eP	37	05.00	-2.1
	0.8s		14.64nm			4.3mb
			eS	38	29.00	
NDI	9.56	142	iPc	37	14.00	-1.0
	0.6s		133.33nm			5.4mb
			eS	38	53.00	
GKN	14.57	121	P	38	17.60	-1.1
WMO	15.00	55	iPd	38	22.60	-1.3
DMN	15.14	122	P	38	25.40	-0.4
PKI	15.37	121	P	38	27.80	-0.9
GUN	15.49	119	P	38	29.60	-0.6
POD	18.08	170	iPd	39	00.00	0.4
LSA	18.49	105	P	39	01.00	-3.3X
	4.0s		300.00nm			5.1mb X
TAB	19.36	282	eP	39	14.00	1.2
HYB	20.23	157	eP	39	22.00	0.4
	1.0s		200.00nm			5.6mb
			i	39	25.00	
			eS	42	57.00	
SHL	21.20	115	iP	39	31.40	0.2
			eS	43	14.20	
GTA	23.21	74	P	39	51.30	0.7
GBA	23.57	163	Pd	39	55.40	1.4
	0.7s		31.40nm			5.0mb
LZH	26.75	81	eP	40	23.50	0.1
			PP	41	12.50	
CD2	28.07	92	iPd	40	36.20	1.1
CHG	30.50	118	eP	40	56.00	-0.6
	1.0s		14.75nm			4.7mb
XAN	31.27	83	P	41	03.30	0.0
BDT	31.58	120	eP	41	05.20	-0.8
	1.1s		70.70nm			5.2mb
HHC	32.10	69	eP	41	11.60	1.1
GYA	32.19	98	iPd	41	12.00	0.5
			PcP	43	54.40	

ELL	32.48	283	eP	41	15.00	1.2
TIY	33.22	75	eP	41	20.80	0.7
			S	46	27.00	
LOE	33.42	116	eP	41	41.00	19.1X
VR1	33.96	300	ePd	41	28.00	1.7
MLR	34.51	299	iPc	41	33.00	1.9
CMP	35.15	299	ePc	41	43.00	6.6X
WHN	36.74	86	eP	41	51.50	1.7
VAY	37.31	293	eP	41	55.00	0.5
BZS	37.54	300	eP	41	58.50	2.1
NUR	37.67	324	iP	41	57.80	0.5
SUF	37.78	328	iP	41	58.50	0.3
	0.6s		25.30nm			5.0mb
SKO	38.05	294	eP	41	54.00	-6.7X
			i	42	44.60	
SPC	38.36	306	iP	42	04.70	1.2
			i	42	47.40	
QIZ	38.53	106	eP	42	06.00	1.1
KRA	38.57	307	eP	42	05.40	0.5
	0.8s		61.00nm			5.3mb
			e	42	49.00	
GZH	39.13	98	P	42	11.00	1.2
SOD	39.64	335	iP	42	14.10	0.7
SRO	39.68	303	iP	42	15.80	1.7
			e	47	45.40	
SNG	40.00	129	iPc	42	18.20	1.2
ZST	40.47	304	e(P)	42	20.90	0.3
			e	43	04.00	
			e	44	11.90	
			e	47	47.90	
KEV	40.72	338	eP	42	22.00	-0.3
	0.7s		24.00nm			4.8mb
KSP	40.90	308	eP	42	25.00	1.0
			e	43	08.50	
			e	44	04.30	
UPP	40.90	322	iP	42	23.50	-0.4
PRU	42.05	307	Pc	42	34.30	0.9
			e	43	18.00	
ORI	42.11	292	P	42	37.00	2.9
IPM	42.29	131	ePc	42	37.20	1.5
	1.0s		130.20nm			5.4mb
BRG	42.38	308	iP	42	35.70	-0.4
	0.8s		30.00nm			4.9mb
			i	43	20.50	
			e	44	38.70	
			i	45	44.50	
PSI	42.57	135	ePd	42	37.80	-0.2
	0.8s		51.30nm			5.1mb
KHC	42.74	306	iP	42	40.00	0.9
			e	43	24.00	
SGO	42.85	293	P	42	41.00	1.0
HFS	42.89	322	eP	42	39.70	-0.4
	0.5s		24.80nm			5.0mb
CLL	42.96	309	iPd	42	41.00	0.2
	1.1s		18.00nm			4.5mb
BSS	43.17	293	P	42	43.50	0.9
DUI	43.24	295	P	42	45.00	1.7
FVI	43.56	302	P	42	45.50	-0.1
SDI	43.70	295	P	42	47.00	0.0
MOX	43.88	308	eP	42	49.00	0.8
	1.1s		22.00nm			4.6mb
			e	43	33.00	
AZI	43.91	295	P	42	50.00	1.4
ARV	43.96	298	P	42	39.00	-10.0X
NB2	44.21	323	P	42	50.20	-0.6
	0.5s		14.60nm			4.7mb
GRF	44.22	307	iPc	42	52.40	1.5
	1.6s		33.00nm			4.6mb
			e	43	30.50	
			ec	43	36.70	
ASS	44.25	297	P	42	52.00	0.7
SFI	44.65	299	P	42	55.50	1.1
PGD	44.76	298	P	42	57.00	1.6
KGM	45.70	131	eP	43	04.00	1.1
SAX	45.78	304	ePd	43	03.10	-0.6
PPI	45.99	136	eP	43	05.50	0.3
	0.7s		34.50nm			4.9mb
LLS	46.08	303	ePd	43	04.20	-1.7
TMA	46.31	302	ePd	43	05.80	-1.9
VAI	46.42	302	P	43	07.00	-1.3
MMK	46.94	302	iPc	43	12.70	0.0
CDF	46.96	305	eP	43	12.90	0.2
	0.8s		5.35nm			4.0mb
ORO	47.01	302	P	43	10.50	-2.6
DIX	47.31	302	ePd	43	15.50	-0.1
BSF	47.38	305	eP	43	15.50	-0.5

MEM	47.43	309	P	43	16.50	0.4
HAU	47.65	305	eP	43	17.60	-0.3
	0.8s		10.75nm			4.3mb
LPG	47.88	302	eP	43	20.10	0.0
	0.8s		17.45nm			4.5mb
LPL	47.89	302	eP	43	20.00	0.0
	0.8s		16.10nm			4.5mb
BNI	48.04	301	P	43	21.00	0.0
DOU	48.40	308	Pd	43	24.20	0.6
	0.9s		20.00nm			4.5mb
SNF	48.53	309	P	43	24.60	0.0
NAI	48.93	227	iPd	43	31.00	2.7
LBF	49.43	304	eP	43	30.80	-0.8
	0.6s		3.15nm			4.0mb
LOR	49.44	305	eP	43	30.80	-0.8
	0.8s		2.70nm			3.8mb
SMF	49.60	304	eP	43	32.30	-0.5
	0.8s		18.80nm			4.6mb
SSF	49.73	304	eP	43	33.30	-0.5
	0.9s		7.35nm			4.2mb
AVF	49.89	304	eP	43	34.40	-0.6
	0.8s		16.10nm			4.6mb
BGF	50.28	304	eP	43	37.20	-0.8
	1.0s		12.00nm			4.4mb
MAF	50.56	304	eP	43	40.10	0.0
	0.8s		10.75nm			4.4mb
TCF	50.78	304	eP	43	41.50	-0.3
	0.8s		9.40nm			4.4mb
CAF	51.23	302	eP	43	45.20	-0.1
	0.8s		9.40nm			4.4mb
LSF	51.24	304	eP	43	44.40	-0.9
	0.8s		8.05nm			4.3mb
KKM	51.50	115	ePd	43	48.80	1.2
RJF	51.51	303	eP	43	46.60	-0.7
	0.8s		5.35nm			4.2mb
LDF	51.74	307	eP	43	48.10	-0.8
	0.6s		4.50nm			4.2mb
LPO	51.90	302	eP	43	49.90	-0.3
	0.8s		6.70nm			4.3mb
FLN	51.92	307	eP	43	49.30	-1.0
	0.6s		6.30nm			4.4mb
EKA	52.09	316	Pc	43	49.90	-1.5
	0.9s		18.20nm			4.7mb
LFF	52.13	302	eP	43	51.70	-0.2
	0.6s		8.10nm			4.5mb
GRR	52.26	307	eP	43	51.80	-1.0
	0.6s		7.20nm			4.5mb
MFF	52.27	305	eP	43	51.90	-0.9
	0.6s		5.40nm			4.3mb
EPF	52.98	300	eP	43	57.20	

LRM 3.92 359 ePn 28 52.90 7.1
SXM 4.34 11 ePn 29 01.40 9.7
10 obs. associated

* JUN 24, 1990 02h 35m 15.60 ± 0.79s
22.767 N ± 24.1km 93.859 E ± 21.3km
DEPTH = 87.9 ± 13.4 km
4.3mb (1 obs.)

BURMA-INDIA BORDER REGION (294)

SHL 3.32 327 iP 36 07.00 0.5
CHG 6.17 129 eP 36 45.00 -1.0
BDT 7.32 138 eP 37 02.50 0.8
GUN 8.85 307 P 37 23.00 -0.1
PKI 9.02 304 P 37 25.80 0.4
DMN 9.28 303 P 37 28.80 0.0
GKN 9.83 304 P 37 35.60 -0.6
WB5 57.97 134 eP 45 01.80 0.4
HFS 65.67 327 eP 45 52.10 -0.3
0.7s 2.80nm 4.3mb
S.D. = 0.7 on 9 of 9 obs.

& JUN 24, 1990 03h 00m 34.72s
41.902 N 112.400 W
DEPTH = 7.6km

UTAH (478)
<SLC-P>. ML 2.6 (SLC).

PTI 0.97 1 eP 00 52.90 -0.6
DAU 1.72 149 eP 01 05.50 0.0
DUG 1.73 191 eP 01 04.60 -0.9
HPI 1.88 344 eP 01 09.50 1.8
BW06 2.28 67 eP 01 14.70 1.1
5 obs. associated

* JUN 24, 1990 03h 33m 31.33 ± 1.81s
40.168 N ± 13.1km 21.912 E ± 8.6km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.2 (THE).

LIT 0.45 98 ePg 33 40.60 0.1
FNA 0.74 327 ePg 33 45.60 -0.3
GRG 0.87 25 ePg 33 48.30 0.2
THE 0.93 60 ePg 33 49.00 0.0
KNT 1.24 37 ePb 33 54.80 0.4
VAY 1.26 23 ePn 33 54.40 -0.2
SOH 1.28 59 ePb 33 54.60 -0.5
SKO 1.84 349 ePn 34 03.50 0.3
iSg 34 31.50
S.D. = 0.4 on 8 of 8 obs.

% JUN 24, 1990 03h 47m 32.61 ± 2.24s
15.586 N ± 7.6km 60.475 W ± 23.5km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 2.8 (FDF).

CRM 0.93 207 eP 47 49.10 -0.2
BBL 0.97 266 eP 47 49.73 -0.2
FDF 1.07 218 eP 47 51.54 0.2
MVM 1.10 202 eP 47 51.75 -0.1
DOG 1.19 292 eP 47 53.20 0.2
BIM 1.21 208 eP 47 53.48 0.2
PAG 1.24 291 eP 47 53.80 0.0
SEG 1.28 309 eP 47 54.02 -0.3
BPA 1.97 318 eP 48 04.42 0.1
S 48 09.30
S.D. = 0.2 on 9 of 9 obs.

JUN 24, 1990 04h 12m 57.43 ± 0.72s
39.199 N ± 5.8km 20.505 E ± 6.5km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 3.1 (ATH). ML 2.7 (THE).

IGT 0.36 338 ePg 13 03.90 -0.9
iSg 13 11.20

KEK 0.75 313 ePg 13 12.00 -0.1
VLS 1.02 176 ePb 13 17.20 0.4
eSb 13 33.50
AGG 1.43 97 ePb 13 22.40 -1.1
iSb 13 43.20
FNA 1.72 23 ePnd 13 28.80 1.2
eSn 13 55.60
LIT 1.78 59 ePnc 13 28.20 -0.2
eSn 13 56.10
OHR 1.92 7 ePn 13 31.00 0.4
GRG 2.28 39 ePn 13 36.50 0.8
eSn 14 09.00
ITM 2.31 150 ePn 13 41.20 5.1X
THE 2.37 52 iPn 13 36.90 -0.1
VAY 2.64 36 ePn 13 40.60 -0.2
SOH 2.72 53 ePn 13 41.90 -0.2
SKO 2.86 14 ePn 13 52.00 8.1X
eSn 14 20.00

S.D. = 0.8 on 11 of 13 obs.

JUN 24, 1990 04h 47m 53.70 ± 0.40s
38.142 N ± 3.6km 23.466 E ± 3.7km
DEPTH = 30.6 ± 3.5 km
3.8mb (2 obs.)

GREECE (364)
MD 3.6 (ATH). ML 3.5 (THE).

NEO 1.18 351 iPnc 48 14.00 -0.2
AGG 1.25 315 iPgd 48 15.20 0.0
eSg 48 29.90
VLI 1.48 197 ePn 48 18.10 -0.4
ITM 1.55 232 ePn 48 20.00 0.4
PAIG 1.79 5 iPb 48 23.20 0.2
eSb 48 43.60
APE 1.96 123 ePn 48 25.70 0.2
LIT 2.10 339 ePbc 48 27.50 0.1
eSb 48 52.90
OUR 2.23 10 ePn 48 29.40 0.2
VLS 2.27 272 ePn 48 31.00 1.2
THE 2.52 351 ePn 48 33.40 0.1
eSn 49 03.10
SOH 2.68 358 ePnc 48 35.90 0.2
SMG 2.70 98 ePn 48 36.50 0.6
EZN 2.79 52 iPn 48 45.50 8.3X
VAM 2.79 168 ePn 48 37.50 0.3
IGT 2.81 301 ePnc 48 39.10 1.6
eSn 49 13.70
GRG 2.93 344 ePn 48 39.50 0.3
SRS 2.97 2 ePnc 48 39.60 -0.2
KNT 3.05 352 ePnc 48 41.40 0.5
iSn 49 16.50
FNA 3.09 329 ePnd 48 42.10 0.5
VAY 3.25 348 ePn 48 42.70 -1.0
KEK 3.26 300 ePn 48 44.60 0.7
ALN 3.40 35 ePn 48 46.20 0.3
RDO 3.40 27 ePn 48 45.30 -0.6
MMB 3.45 3 ePc 48 46.00 -0.6
OHR 3.61 326 iPn 48 50.80 1.9
RZN 3.67 15 eP 48 50.00 0.1
KDZ 3.81 23 eP 48 51.00 -0.7
EDC 4.06 56 ePn 49 01.00 5.7X
PLD 4.07 13 eP 48 57.00 1.6
SKO 4.13 339 iPn 48 56.60 0.4
VTS 4.45 358 eP 49 02.00 1.1
eSg 49 51.00
LCI 4.81 299 P 49 03.70 -2.1
eSn 49 55.40
DMK 4.94 41 ePn 49 07.00 -0.7
PVL 5.26 15 eP 49 10.00 -2.3
TDS 5.76 287 P 49 19.20 -0.2
ATN 6.31 273 P 49 27.60 0.5
MGR 6.46 290 Pd 49 28.60 -0.7
MEU 6.85 264 P 49 33.60 -1.2
eSn 50 46.00
BSS 7.20 294 P 49 38.50 -1.1
CMP 7.22 9 ePc 49 45.00 5.2X
VRI 8.09 16 ePd 49 53.00 1.0
HFS 22.87 347 eP 52 54.60 -0.7
0.5s 1.80nm 3.8mb
NB2 24.17 345 P 53 07.30 -0.7
0.8s 2.80nm 3.9mb
S.D. = 0.9 on 40 of 43 obs.

JUN 24, 1990 05h 08m 44.12 ± 0.41s
32.400 N ± 7.1km 49.978 E ± 4.8km
DEPTH = 33.0km (normal)
4.5mb (24 obs.) 4.3MsZ (4 obs.)

WESTERN IRAN (347)
Felt in the Farsan area.

KER 3.09 310 iPc 09 34.00 2.1
TEH 3.53 19 eP 09 41.00 2.9X
BRF 6.33 175 iPn 10 42.50 25.0X
eSn 11 27.60
TAB 6.39 333 eP 10 36.00 17.4X
MAIO 8.78 61 eP 10 52.00 0.2
eS 12 47.00
HRI 12.01 278 eP 11 34.70 -1.3
BHL 12.10 281 P 11 38.00 0.8
S 15 28.00
DSI 12.42 270 eP 11 41.20 -0.2
MBH 13.20 263 eP 11 50.00 -1.8
RMN 13.24 266 eP 11 51.50 -0.9
QUE 14.68 94 eP 12 19.50 8.1X
HLW 16.16 266 eP 12 13.00 -17.3X
e 17 44.00
ELL 17.08 290 eP 12 46.00 3.9X
AKSR 17.31 244 iPd 12 44.00 -0.9
1.0s *****nm 7.7mb X
ALT 17.43 298 eP 12 45.00 -1.4
AKRL 17.54 245 iPd 12 52.00 4.4X
AGAL 17.58 244 iPd 12 52.50 4.3X
HRT 18.31 303 eP 12 58.00 0.8
YLV 18.44 302 eP 12 59.00 0.2
ALN 20.94 301 ePc 13 26.20 -0.2
JMB 21.06 305 eP 13 31.00 3.4X
KDZ 21.62 302 eP 13 25.00 -8.2X
DIM 21.65 303 eP 13 35.00 1.4
RZN 22.13 302 iPd 13 40.00 1.4
KSH 22.16 64 P 13 44.00 5.2X
PVL 22.19 306 eP 13 43.00 4.1X
OUR 22.33 298 eP 13 41.60 1.3
VRI 22.40 314 ePd 13 42.00 1.0
MLR 22.71 312 ePc 13 47.50 3.3X
PGB 22.77 304 eP 13 45.00 0.2
SRS 22.79 300 eP 13 45.80 0.9
MMB 22.81 301 eP 13 46.00 0.9
SOH 22.90 299 eP 13 47.70 1.7
CMP 23.18 311 ePc 13 56.00 7.3X
LIT 23.40 297 eP 13 51.60 0.8
VTS 23.46 303 eP 13 53.00 1.4
VAY 23.59 300 eP 13 54.60 2.0
GRG 23.63 299 eP 13 53.40 0.3
FNA 24.36 298 ePd 14 02.20 2.0
SKO 24.57 301 eP 14 02.50 0.4
IGT 24.95 295 eP 14 06.50 0.7
BZS 25.54 309 eP 14 13.00 1.8
LCI 26.87 296 P 14 23.00 0.2
BRT 27.50 297 P 14 32.00 2.6
SPC 27.82 316 eP 14 43.70 11.3X
BUD 27.88 312 eP 14 42.50 9.8X
ORI 27.98 295 P 14 39.00 5.2X
TDS 28.04 295 P 14 43.50 9.3X
SOI 28.18 291 P 14 36.00 0.5
KRA 28.39 317 eP 14 36.30 -1.0
SRO 28.45 312 eP 14 54.00 16.1X
ATN 28.65 291 P 14 40.50 0.7
SGO 28.90 296 P 14 43.50 1.6
BSS 29.30 297 P 14 46.00 0.4
ZST 29.35 312 eP 14 44.60 -1.3
e 15 21.40
DUI 29.65 298 P 14 50.00 1.1
SDI 30.13 298 P 14 52.00 -1.1
LJU 30.38 307 e(P) 14 55.50 0.3
VOY 30.81 307 e(P) 14 58.50 -0.6
KSP 30.83 317 eP 14 58.50 -0.6
ASS 31.14 301 P 15 02.50 0.5
FVI 31.69 307 P 15 06.30 -0.4
CRE 31.73 302 P 15 07.50 0.3
SFI 31.84 302 P 15 10.00 2.0
KHC 31.86 312 Pd 15 07.50 -0.7
1.2s 10.00nm 4.6mb
PGD 31.93 302 P 15 11.60 2.6
BRG 32.22 316 eP 15 10.80 -0.5
BDI 32.76 302 P 15 17.30 1.2
SOTA 32.88 308 iPc 15 15.60 -1.6
0.7s 64.70nm 5.6mb X
i 15 20.20
i 15 29.20
i 15 41.00
CLL 32.93 316 eP 15 16.00 -1.4
OGA 32.93 307 eP 15 17.20 -0.6
OSS 33.49 307 ePd 15 22.50 -0.1
GRF 33.50 313 eP 15 21.90 -0.5

24d 05h				0.483 N ± 4.9km 122.389 E ± 6.3km							
Z	21s	0.20um	3.8msz	DEPTH = 153.3 ± 8.1 km							
MDI	33.63	305 P	15 24.20	5.1mb (14 obs.)							
SUF	33.92	341 eP	15 25.00	MINAHASSA PENINSULA (265)				CEY 1.25 35 eSg 37 51.20			
SAX	34.13	308 ePd	15 26.90					ePn 37 36.90 -0.5			
TMA	34.26	306 ePd	15 28.20					eSg 37 55.00			
VAI	34.29	305 P	15 29.20					P 37 37.40 -0.1			
LLS	34.30	307 ePd	15 28.10					eSg 37 55.00			
ZLA	34.82	308 ePc	15 30.60					iPnc 37 38.60 -0.6			
SBF	35.01	302 eP	15 35.10					eSn 37 57.50			
	1.0s	36.00nm	5.3mb					P 37 39.10 0.0			
DIX	35.26	305 ePd	15 37.10					eSg 37 58.50			
LPG	35.65	304 eP	15 40.80					P 37 40.90 0.1			
	1.0s	12.00nm	4.8mb					eSg 38 01.50			
BNI	35.66	303 P	15 40.50					P 37 41.20 0.0			
HAU	36.26	308 eP	15 44.30					eSg 38 02.30			
	0.8s	8.05nm	4.7mb					ePn 37 42.70 1.2			
HFS	36.59	330 eP	15 46.60					iSn 38 04.20			
	0.4s	3.30nm	4.6mb					ePn 37 42.00 0.3			
Z	18s	0.27um	4.1msz					iSg 38 04.50			
		LR	30 05.00					P 37 44.70 0.3			
WTS	36.81	315 eP	15 51.00					eSg 38 06.40			
	0.7s	22.00nm	5.1mb					P 37 46.40 -0.8			
MEM	36.97	313 P	15 52.60					eSn 38 10.00			
ENN	37.06	313 eP	15 53.50					iPnc 37 55.10 4.5X			
	0.7s	4.00nm	4.4mb					eSn 38 27.50			
		e	16 13.50					OGA 2.72 323 eP 38 05.60 6.8X			
SOD	37.60	345 eP	15 56.00					SOTA 2.94 329 iPnd 38 02.60 0.8			
LBF	37.72	306 eP	15 57.30					iPg 38 08.40			
	1.0s	6.00nm	4.4mb					iSn 38 34.30			
DOU	37.76	312 P	15 58.80					iSg 38 46.30			
	0.8s	10.00nm	4.7mb					SDI 3.02 174 P 38 02.00 -0.9			
		S	24 44.00					KHC 4.42 1 eP 38 17.50 -5.2X			
SMF	37.78	306 eP	15 57.80					S.D. = 0.6 on 14 of 17 obs.			
	0.9s	13.90nm	4.8mb					JUN 24, 1990 05h 38m 30.00 ± 0.41s			
SSF	38.05	306 eP	16 00.10					44.793 N ± 5.5km 13.254 E ± 8.2km			
	0.8s	7.40nm	4.6mb					DEPTH = 10.0km (geophysicist)			
NB2	38.11	330 P	16 00.50					ADRIATIC SEA (382)			
	0.9s	2.30nm	4.0mb					ML 3.0 (VIE). MD 2.5 (TRI).			
AVF	38.13	306 eP	16 01.00					TRI 0.98 21 iPg 38 48.70 0.0			
	0.8s	5.35nm	4.4mb					iSg 39 03.00			
MAF	38.62	305 eP	16 04.50					RSM 1.04 214 Pc 38 49.70 0.1			
	1.0s	6.00nm	4.3mb					eSg 39 06.10			
TCF	38.88	305 eP	16 07.40					CEY 1.26 41 ePn 38 52.50 -0.9			
	0.8s	2.70nm	4.1mb					iSg 39 10.90			
EBR	40.15	297 eP	16 20.00					ARV 1.31 190 P 38 53.20 -1.1			
MFF	40.52	305 eP	16 20.30					eSg 39 11.80			
	0.6s	3.60nm	4.3mb					VOY 1.32 20 ePn 38 54.50 0.1			
GTA	40.55	66 eP	16 21.60					eSn 39 13.70			
	Z	16s	0.60um					SFI 1.33 230 P 38 54.70 0.2			
	E	12s	0.30um					eSg 39 14.00			
LDF	40.62	309 eP	16 21.30					PGD 1.43 231 P 38 55.50 -0.7			
	0.7s	4.40nm	4.3mb					CRE 1.49 219 P 38 57.40 0.4			
FLN	40.87	309 eP	16 22.90					eSg 39 17.40			
	0.6s	5.40nm	4.5mb					LJU 1.54 35 ePn 38 58.10 0.6			
GRR	41.09	308 eP	16 25.40					eSg 39 20.50			
	0.8s	10.75nm	4.6mb					VBY 1.59 63 ePn 38 58.40 0.2			
LPF	41.19	308 eP	16 26.00					eSn 39 20.20			
	0.6s	5.40nm	4.5mb					ASS 1.77 194 P 39 01.20 0.2			
EKA	43.31	318 P	16 44.00					eSg 39 23.20			
	0.9s	4.30nm	4.2mb					FVI 1.83 350 P 39 01.10 -0.6			
LZH	44.21	70 Pd	16 54.50					PTJ 2.20 59 ePn 39 11.30 4.0X			
		pP	17 01.00					eSn 39 43.70			
MAL	44.50	291 P	16 54.00					SOTA 2.82 330 iPgc 39 24.00 8.0X			
CHG	45.81	95 eP	17 05.30					iSn 39 50.50			
XAN	48.74	71 eP	17 27.00					iSg 40 02.50			
TIY	50.58	66 eP	17 43.00					PRU 5.27 9 eP 39 56.50 5.8X			
	Z	18s	0.80um					e 40 33.50			
	E	13s	0.30um					S.D. = 0.6 on 12 of 15 obs.			
CIR	55.95	201 iPc	18 23.00					? JUN 24, 1990 05h 45m 56.44 ± 1.28s			
LKO	55.97	259 P	18 22.00					31.738 S ± 18.4km 69.212 W ± 16.2km			
BUL	56.10	204 iPd	18 20.90					DEPTH = 100.0km (geophysicist)			
	1.0s	9.00nm	4.8mb					SAN JUAN PROVINCE, ARGENTINA (137)			
KIC	57.02	255 P	18 29.72					RTBS 0.22 290 iPd 46 11.00 -0.1			
	0.8s	17.00nm	5.1mb					RTCV 0.59 102 iPc 46 13.30 0.1			
LIC	57.33	255 P	18 31.78					RTLL 0.75 57 iPc 46 14.50 -0.2			
	Z	18s	0.45um					CFA 0.84 81 eP 46 15.50 0.0			
SWZ	63.73	204 eP	19 14.00					eS 46 30.20			
SEK	64.02	202 eP	19 27.20					RTRS 1.58 352 iPc 46 24.10 0.1			
MBC	71.41	357 eP	20 01.00					S.D. = 0.2 on 5 of 5 obs.			
	0.8s	2.00nm	4.2mb					JUN 24, 1990 05h 52m 30.75 ± 0.41s			
FRB	72.67	336 eP	20 09.00					43.097 N ± 4.2km 10.713 E ± 3.4km			
SCH	77.62	328 eP	20 38.00					DEPTH = 6.1 ± 2.4 km (381)			
ZOBO	122.09	270 ePKP	27 39.00					CENTRAL ITALY (381)			
CNCB	122.22	270 PKP	27 40.00					MD 3.1 (ROM). ML 3.1 (LDG).			
				S.D. = 1.1 on 102 of 123 obs.				TRI 1.03 14 iPgd 37 33.30 -0.2			
				JUN 24, 1990 05h 37m 14.00 ± 0.40s				iSg 37 47.00			
				44.714 N ± 4.2km 13.406 E ± 6.6km				RSM 1.04 221 Pc 37 34.00 0.3			
				DEPTH = 10.0km (geophysicist)							
				ADRIATIC SEA (382)							
				ML 3.2 (VIE). MD 2.7 (TRI).							

	0.9s	48.74nm		5.5mb					PTT	148.67	329	ePKP	54 51.00	4.5X				i	54 57.10							
SES	91.95	36 iPd	48 12.60	0.2					WIT	148.76	356	ePKP	54 48.00	1.7				e	55 05.70							
	1.2s	166.00nm		6.0mb								e	54 51.00				VKA	151.49	342	ePKP	54 51.00	0.3				
		pP	49 00.00	190km								e	54 55.00					i	54 57.40							
BTO	92.06	313 eP	48 13.00	-0.2					KRA	148.78	339	ePKP	54 46.20	-0.3				i	55 06.00							
EDM	92.28	32 iPd	48 13.60	-0.3						0.9s	264.00nm							e	55 39.00							
CD2	92.56	302 eP	48 16.10	0.4								i	54 50.70					i	54 57.40							
MEO	92.73	54 iPd	48 16.00	-0.3					CFR	148.98	325	ePKP	54 47.00	0.1					e	55 39.00						
RSSD	92.99	43 P	48 17.40	-0.2					KSP	149.15	344	ePKP	54 47.10	0.0				DOU	151.56	359	PKP	54 52.90	2.2			
		pP	49 03.50	184km								ic	54 51.90					id	54 57.30							
LZH	94.55	307 eP	48 25.50	0.6					BHL	149.15	300	PKPc	54 52.00	4.3X				e	55 03.60							
	2.5s	90.00nm		5.5mb					HRI	149.24	299	ePKP	54 53.40	5.5X				e	55 49.00							
Z	15s	0.50um		5.1MszX					VRI	149.25	327	ePKPd	54 52.50	5.1X				JMB	151.61	322	ePKP	54 52.00	1.0			
INK	94.98	15 iPd	48 24.80	-1.1					SPC	149.42	338	ePKP	54 47.50	-0.3					BCK	151.76	310	ePKP	54 50.30	-1.2		
	1.0s	55.00nm		5.8mb								i	54 52.90					PVL	151.80	325	iPKPd	54 51.00	-0.3			
		pP	49 12.00	189km					TLB	149.43	324	iPKPd	54 53.00	5.3X					SOP	151.94	341	ePKP	54 51.90	0.6		
TUL	95.27	54 eP	48 28.20	0.2					CLL	149.44	348	iPKP	54 47.10	-0.4					BNT	152.09	318	ePKP	54 57.90	6.1X		
	1.2s	13.20nm		5.1mb						1.3s	570.00nm								KHL	152.11	312	ePKP	54 51.60	-0.4		
LNO	95.27	54 eP	48 27.40	-0.5								i	54 52.10						EDC	152.13	318	iPKP	54 58.20	6.4X		
YKA	96.94	24 eP	48 33.70	-1.2					DBN	149.54	358	ePKP	54 52.00	4.5X					KMR	152.26	345	iPKP-	54 52.00	0.2		
	0.8s	13.30nm		5.3mb								pPKP	55 38.00						i	54 59.40						
ARE	97.36	111 eP	48 41.00	2.8					WTS	149.56	356	ePKP	54 48.00	0.4					KGT	152.42	318	iPKP	54 59.40	7.2X		
GTA	98.76	309 P	48 42.40	-1.4						0.8s	243.00nm								DIM	152.47	323	ePKP	54 52.00	-0.3		
CNCB	100.25	113 Pd diff	48 55.00	3.3X								id	54 52.50						GWf	152.49	354	PKP	54 52.04	-0.1		
LPB	100.27	112 ePd diff	48 54.00	2.4								e	54 56.00						ELL	152.57	309	iPKP	55 00.00	7.3X		
ZOBO	100.36	112 Pd diff	48 55.20	3.0X					BRG	149.67	347	iPKPd	54 47.60	-0.2					BST	152.69	11	PKP	54 48.37	-4.0X		
Z	20s	0.32um		4.8Msz								i	54 53.20					FLN	152.72	6	ePKP	54 52.30	-0.1			
		LR	01 44.00									i	54 57.20						FUR	152.78	349	iPKPc	54 53.20	0.7		
CCH	101.56	114 ePd diff	49 01.50	4.3X					ISR	149.85	327	iPKPd	54 54.00	5.6X						i	55 00.00					
MBC	103.57	12 ePd diff	49 04.00	-0.4					DSI	149.91	296	ePKP	54 54.00	5.2X						i	55 11.50					
	0.7s	3.00nm		5.3mb					MLR	149.91	328	iPKPc	54 49.00	0.4					KDZ	152.80	322	iPKPd	54 53.00	0.2		
GUN	106.24	294 PKP	53 27.80	-0.9					MOX	150.33	350	ePKP	54 49.00	0.1					STR	152.87	354	PKP	54 52.72	0.1		
PKI	106.55	294 PKP	53 28.40	-0.9						1.9s	509.00nm								BHG	152.87	346	ePKP	54 52.80	0.1		
	1.0s	52.00nm							Z	14s	1.00um								PGB	152.88	325	ePKP	55 00.00	7.1X		
DMN	106.82	293 PKP	53 29.00	-0.7					N	20s	2.00um								BEO	152.96	333	iPKPd	55 00.70	7.9X		
GKN	107.32	294 PKP	53 29.20	-1.3					E	18s	0.80um								RDO	153.05	321	ePKP	55 00.00	6.9X		
	0.8s	24.00nm										i	54 55.00						KSL	153.07	308	ePKP	55 00.50	7.2X		
WMO	108.71	311 Pd diff	49 31.60	3.5X								e	55 43.00					WLS	153.08	354	PKP	54 52.12	-0.9			
KSH	116.65	304 PKP	53 48.70	0.8					PRU	150.37	346	PKPd	54 48.60	-0.3					CDF	153.09	354	PKP	54 51.78	-1.3		
KSH	116.65	304 PKP	53 48.70	0.8					LFK	150.42	304	iPKP	54 49.20	-0.4					RZN	153.17	323	iPKPd	54 53.00	-0.5		
FRB	117.10	28 ePKP	53 47.00	-0.8					PRNI	150.45	294	ePKP	54 55.00	5.3X					ECH	153.29	355	PKP	54 53.57	0.3		
BAO	117.40	122 ePKP	53 39.00	-11.0X					MTUR	150.53	328	ePKPc	54 55.00	5.5X					VTS	153.36	326	iPKP	54 54.00	0.3		
SCH	118.71	38 ePKP	53 50.00	-1.2					GPA	150.59	315	iPKP	54 55.00	5.4X					VITF	153.38	356	PKP	54 53.24	0.0		
CER	123.30	196 iPKPd	54 01.00	0.4					HOF	150.60	349	iPKPc	54 49.80	0.5					LPF	153.39	7	ePKP	54 53.30	0.0		
		i	55 47.00						PSZ	150.62	337	iPKP	54 54.90	5.4X						0.8s	5.35nm					
HVD	123.95	203 iPKPc	54 21.00	18.8X					MBH	150.65	293	ePKP	54 54.80	4.9X					EZN	153.39	318	iPKP	55 00.40	6.8X		
BLF	125.04	204 iPKPc	54 04.30	0.0					CSS	150.68	303	ePKP	54 50.00	0.1					CIN	153.45	312	ePKP	55 01.00	7.2X		
SWZ	127.10	205 iPKPc	53 55.00	-13.3X					HRT	150.72	317	iPKP	54 55.70	5.9X					YER	153.54	311	iPKP	55 01.00	7.0X		
	1.3s	211.54nm							RMN	150.74	294	ePKP	54 55.30	5.1X					FEL	153.54	353	PKP	54 53.40	-0.4		
CIR	129.53	215 iPKPd	54 13.20	0.2					ENN	150.84	357	ePKP	54 50.00	0.4					SQTA	153.70	348	iPKPd	54 53.70	-0.3		
		iPP	56 22.90							0.7s	237.00nm									1.8s	67.40nm					
KEV	129.81	350 ePKP	54 11.00	-1.0								id	54 55.50							i	55 01.80					
BUL	131.78	212 iPKPc	54 13.50	-3.9X								e	55 01.00							i	55 15.20					
		iPP	56 32.00						UCC	150.86	359	iPKPd	54 55.80	6.2X						BSF	153.70	355	PKP	54 53.40	-0.6	
		iSKP	57 25.30									e	55 44.00							PTJ	153.72	340	ePKP	54 53.60	-0.4	
SOD	131.97	348 iPKP	54 13.00	-3.2X					GBZT	150.88	317	iPKPd	54 58.20	8.2X							MMB	153.78	324	ePKP	54 54.00	-0.2
SUF	136.11	345 ePKP	54 17.50	-6.6X					ISK	150.97	318	iPKP	54 55.90	5.8X							ZAG	153.78	340	ePKP	54 54.20	0.3
	0.6s	6.10nm							ITU	150.98	318	ePKP	54 55.50	5.4X							FVI	153.96	345	PKP	54 53.80	-0.3
NUR	138.38	344 ePKP	54 16.00	-12.5X					MEM	150.99	357	PKP	54 50.10	0.3						BBS	154.00	354	PKP	54 56.38	2.1	
	0.7s	40.00nm										id	54 55.90							OGA	154.07	348	iPKPc	54 55.00	0.4	
TAB	139.77	304 ePKP	54 29.00	-2.9					YLV	151.05	317	ePKP	54 49.90	-0.5						SRS	154.18	323	ePKPd	55 04.30	9.6X	
NB2	140.23	354 PKP	54 22.50	-9.4X					DEV	151.06	331	ePKPc	54 50.00	-0.1						LOMF	154.18	355	PKP	54 56.13	1.5	
	0.6s	21.70nm																								

24d 08h

THE	154.86	323	ePKP	55 02.20	6.7X
AVF	154.88	0	ePKP	54 55.30	-0.1
			6.00nm		
MFF	154.89	6	ePKP	54 55.50	0.1
			8.00nm		
PAIG	154.92	321	iPKP	55 03.60	8.0X
GRG	154.94	325	iPKP	55 03.90	8.2X
SMF	155.02	359	ePKP	54 55.70	0.1
			14.00nm		
BGF	155.11	1	ePKP	54 55.90	0.2
			9.40nm		
TCF	155.36	2	ePKP	54 56.40	0.3
			14.90nm		
MDI	155.36	350	PKP	54 54.50	-1.5
LSF	155.37	3	ePKP	54 56.00	-0.1
			6.05nm		
VAI	155.42	351	PKP	54 56.00	-0.1
LIT	155.48	323	ePKPd	55 02.80	6.3X
FNA	155.61	326	ePKPd	55 05.70	9.0X
AGO	155.62	1	PKP	55 06.10	9.6X
OHR	155.67	327	iPKPd	54 56.50	-0.3
			189.00nm		
			i	55 06.60	
			i	55 10.70	
PLDF	155.70	360	PKP	55 06.02	9.3X
PYM	155.92	1	PKP	55 06.92	9.9X
HVAR	155.93	336	iPKPc	55 06.30	9.3X
LPL	156.01	354	ePKP	54 57.90	0.6
			4.05nm		
LPG	156.02	354	ePKP	54 58.10	0.7
			5.35nm		
AGG	156.30	321	ePKPd	55 06.60	9.0X
RJF	156.31	3	ePKP	54 57.70	0.3
			8.00nm		
LBL	156.44	0	PKP	55 09.37	11.8X
BNI	156.47	354	PKP	54 58.40	0.6
SFI	156.69	345	PKP	54 58.00	0.1
CAF	156.72	3	ePKP	54 58.30	0.3
			8.00nm		
PGD	156.77	345	PKP	54 58.30	0.0
ARV	156.80	342	PKP	54 57.50	-0.6
CKI	156.91	351	PKP	55 09.50	11.3X
LPO	156.91	4	ePKP	54 58.90	0.7
			8.00nm		
CRE	156.94	344	PKP	55 04.30	5.9X
DOI	156.96	353	PKP	55 08.50	10.1X
IGT	157.06	325	ePKPd	55 13.10	14.5X
KEK	157.21	326	ePKP	55 09.70	11.0X
VLI	157.38	316	ePKP	55 08.50	9.5X
BCAO	157.54	223	iPKPd	54 50.50	-9.4X
			id	55 33.50	
BRT	157.55	332	PKP	54 59.00	-0.1
LCI	157.65	330	PKP	55 10.50	11.3X
AQU	157.71	340	PKP	55 11.90	12.6X
ITM	157.74	318	ePKP	55 09.70	10.3X
DUI	157.98	338	PKP	55 03.00	3.3X
AZI	158.03	340	PKP	54 59.00	-0.5
SDI	158.16	339	PKP	54 58.00	-1.8
EPF	158.48	6	ePKP	55 00.70	0.6
			7.35nm		
ORI	158.55	332	PKP	55 02.50	2.2
BSS	158.61	336	PKP	55 10.00	9.7X
SGO	158.61	335	PKP	55 00.50	0.3
MGR	158.87	334	PKP	55 08.20	7.6X
TDS	158.93	331	PKP	55 01.00	0.3
EPLA	159.87	22	e(PKP)	55 03.50	1.8
GUD	159.94	17	e(PKP)	55 04.00	2.1
ETOR	160.28	13	e(PKP)	55 03.00	0.8
SOI	160.34	329	PKP	55 04.00	1.8
EBR	160.68	7	ePKP	55 04.00	1.6
TOL	160.68	18	ePKP	55 04.00	1.5
			iPKKP	55 46.50	
			ePP	59 49.00	
EVIA	162.26	16	e(PKP)	55 06.00	1.7
LIC	162.62	150	PKP	55 05.78	0.6
			85.50nm		
KIC	162.87	151	PKPd	55 05.92	0.5
			72.00nm		
TIC	162.99	150	PKPd	55 06.16	0.6
			60.00nm		
AFC	163.26	20	e(PKP)	55 05.00	-0.4
EJIF	163.28	26	e(PKP)	55 09.00	3.8X
MAL	163.44	23	iPKPd	55 06.00	0.7
			ipp	59 52.00	
ENIJ	163.91	17	e(PKP)	55 07.50	1.6
			S.D. = 1.0	on 299 of 393 obs.	

* JUN 24, 1990 08h 51m 54.99±1.78s				
8.904 S ±15.3km 119.515 E ±21.6km				
DEPTH = 196.0 ± 23.4 km				
4.5mb (3 obs.)				
FLORES ISLAND REGION (286)				
MKS	3.66	359	iPd	52 53.00 0.0
			iS	53 40.00
MBL	12.19	179	iPd	54 33.70 -9.7X
			0.3s 21.00nm	5.1mb X
			eS	56 21.00
NANU	14.11	195	eP	54 51.80 -15.8X
			0.3s 11.00nm	
			eS	57 03.00
MEKA	17.64	183	eP	55 51.00 1.1X
			eS	58 31.50
WBS	18.04	129	eP	55 53.30 -0.9
			eS	59 02.30
WRA	18.05	129	Pc	55 54.80 0.5
			0.5s 3.00nm	4.0mb
ASPA	20.12	139	iPd	56 16.00 0.4
			0.8s 22.00nm	4.7mb
			eS	59 50.30
MRWA	20.48	189	eP	56 17.60 -1.4
			eS	59 35.00
BAL	21.75	187	eP	56 33.00 1.5
COOL	21.92	176	eP	56 38.00 4.8X
			0.4s 8.00nm	4.6mb
			eS	00 00.00
KLB	22.63	184	eP	56 45.00 4.9X
			eS	00 25.00
MUN	23.16	187	eP	56 53.00 7.8X
			eS	00 38.00
GUN	48.97	319	P	00 25.20 1.2
PKI	49.04	319	P	00 22.54 -2.0
DMN	49.27	319	P	00 27.00 0.8
			S.D. = 1.5	on 9 of 15 obs.

JUN 24, 1990 09h 45m 57.00±0.19s				
36.863 N ± 5.1km 49.405 E ± 2.2km				
DEPTH = 10.0km (geophysicist)				
5.1mb (63 obs.) 4.7Msz (6 obs.)				
WESTERN IRAN (347)				

Felt in Gilan Province.
 Additional landslides in the Rostomabad area blocked the Rasht-Rudbar road.
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 16S, 29C
 Centroid Location:
 Origin Time 09:45:55.6 1.2
 Lat 36.08N 0.12 Lon 48.91E 0.12
 Dep 15.0 FLX Half-duration 1.5
 Moment Tensor: Scale 10**17 Nm
 Mrr= 0.15 0.06 Mtt= 0.89 0.09
 Mff=-1.04 0.07 Mrt= 0.04 0.20
 Mrf= 0.76 0.28 Mtf= -0.18 0.07
 Principal Axes:
 T Val= 0.91 P1g= 4 Azm=187
 N 0.51 64 284
 P -1.42 26 95
 Best Double Couple: M=1.2*10**17
 NP1: Strike=234 Dip=69 Slip=-163
 NP2: 138 75 -22

TEH	1.95	124	ePd	46 33.50 2.8
TAB	2.73	297	eP	46 43.00 1.2
			i	46 45.00
KER	3.13	217	iPc	46 50.70 3.3X
MAIO	8.14	91	iPd	47 57.00 -1.1
			0.9s 87.81nm	6.0mb
			eS	49 33.00
BHL	11.61	259	P	48 48.00 2.2
			S	52 16.00
LFK	12.94	268	eP	48 49.00 -14.7X
KAS	12.95	295	eP	49 10.50 6.7X
CSS	13.17	266	eP	49 08.70 2.0
PRNI	13.65	246	e(P)	49 13.00 0.0
MBH	14.05	244	e(P)	49 29.00 10.8X
BCK	15.02	278	eP	49 35.80 4.8X
GPA	15.32	289	eP	49 34.00 -0.9
ALT	15.38	284	eP	49 37.00 1.3
ELL	15.62	275	eP	49 41.00 2.1
KHL	15.83	281	eP	49 43.00 1.4
HRT	15.87	290	eP	49 43.00 0.9
IZI	15.96	289	eP	49 47.80 4.6X

KSL	15.96	273	eP	49 46.20 3.0X
GBZT	16.04	290	iPd	49 51.30 7.2X
QUE	16.06	109	iP-	49 48.00 3.3X
			eSS	50 32.00
YLV	16.06	289	iP	49 45.40 0.8
ISK	16.37	291	eP	49 51.80 3.5X
ITU	16.40	291	eP	49 53.00 4.2X
HLW	16.62	250	eP	49 52.00 0.5
			eS	53 17.00
BNT	17.15	288	iP	49 58.90 0.7
DMK	17.45	293	iP	50 02.60 0.7
PSN	17.54	299	iPc	50 06.00 2.9X
KGT	17.62	288	iP	50 06.40 2.3
TLB	17.91	302	ePd	50 10.00 2.4
CFR	18.03	304	eP	50 11.00 2.0
JMB	18.42	295	iPd	50 16.00 2.1
ALN	18.61	290	ePd	50 27.50 11.2X
PPE	18.75	307	eP	50 17.50 -0.5
RDO	19.02	290	eP	50 21.70 0.4
ISR	19.09	303	eP	50 24.00 1.8
CLI	19.09	307	ePc	50 22.50 0.4
KDZ	19.16	292	iPc	50 23.00 0.0
BUC	19.19	300	iPc	50 24.00 0.7
VRI	19.20	305	ePd	50 24.50 1.0
BUC1	19.22	300	ePc	50 24.00 0.3
PVL	19.46	296	iPc	50 30.00 3.4X
MLR	19.60	303	ePc	50 09.00 -19.4X
RZN	19.69	292	iPc	50 29.00 -0.4
PLD	19.74	293	eP	50 29.00 -0.8
PTT	19.81	308	eP	50 31.00 0.6
PGB	20.20	294	iPc	50 35.00 0.4
VAM	20.40	273	eP	50 36.00 -0.7
MMB	20.41	291	ePc	50 37.00 0.1
ATH	20.42	281	eP	50 40.00 3.1X
SRS	20.48	290	eP	50 37.50 0.0
DRA	20.53	300	eP	50 40.00 2.0
VTS	20.90	294	iP	50 43.00 0.9
THE	20.93	288	eP	50 41.50 -0.7
KSH	21.03	75	P	50 44.00 0.6
VLI	21.18	278	eP	50 42.70 -2.0
VAY	21.26	290	iP	50 46.00 0.5
			1.3s 211.00nm	5.4mb
			i	50 48.80
LIT	21.29	287	eP	50 45.00 -0.8
DEV	21.75	303	ePc	50 51.00 0.6
ITM	21.92	279	eP	50 50.00 -2.2
FNA	22.14	289	ePd	50 54.50 0.0
SKO	22.15	292	eP	50 54.00 -0.4
			1.0s 124.00nm	5.3mb
Z	18s		4.76um	5.0Msz
N	13s		2.94um	
E	16s		4.26um	
			i	51 02.00
			iS	55 04.00
			LQ	00 25.00
OHR	22.59	290	iP	50 59.70 0.8
			1.6s 177.00nm	5.3mb
			i	51 04.50
VLS	22.86	282	eP	50 59.00 -2.5
IGT	22.96	286	eP	51 02.00 -0.5
BEO	23.21	299	eP	51 06.00 1.2
KEK	23.37	286	eP	51 05.50 -0.9
PSZ	24.29	306	eP	51 17.00 1.6
SPC	24.46	309	eP	51 17.20 0.1
NDI	24.70	101	iPd	51 19.60 0.1
			0.7s 34.25nm	5.1mb
			iS	55 42.00
LCI	24.76	288	P	51 18.10 -1.8
KRA	24.94	311	iPd	51 22.60 1.1
			1.1s 72.00nm	5.3mb
Z	18s		1.50um	4.5Msz
E	18s		2.40um	
			e	51 28.70
			eS	56 00.00
SRO	25.29	305	iP	51 25.70 0.8
BRT	25.31	289	P	51 25.00 -0.2
HVAR	25.90	294	iPd	51 30.30 -0.4
ORI	25.92	287	P	51 31.00 0.1
ZST	26.17	306	iP	51 33.60 0.5
SOP	26.41	305	eP	51 36.80 1.4
SOI	26.42	283	P	51 35.50 0.0
ZAG	26.48	300	eP	51 36.50 0.5
PTJ	26.51	300	eP	51 34.50 -1.9
VKA	26.70	306	eP	51 38.50 0.5
Z	13s		1.00um	4.6Msz
			i	52 23.30
			e	56 27.00

24d 09h

Table with columns for station ID, depth (m), time, and seismic data. Includes stations FFC, EDM, SES, PNT, NEW, WRA, LPB, CNCB.

? JUN 24, 1990 10h 48m 40.30±13.96s
18.156 N ±79.6km 67.571 W ±106.km
DEPTH = 10.0km (geophysicist)
MONA PASSAGE (89)

Table with columns for station ID, depth (m), time, and seismic data. Includes stations MGP, PORP, SJG, CPD, LPR.

? JUN 24, 1990 11h 27m 16.69±3.18s
39.309 N ±26.1km 27.750 E ±11.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

Table with columns for station ID, depth (m), time, and seismic data. Includes stations EDC, KCT, BNT, EZN, YLV.

* JUN 24, 1990 11h 37m 00.80±1.25s
44.052 N ±21.1km 149.171 E ±15.4km
DEPTH = 33.0km (normal)
4.8mb (6 obs.) 3.7Msz (1 obs.)
KURIL ISLANDS (221)

Table with columns for station ID, depth (m), time, and seismic data. Includes stations MAT, MDJ, SNY, BJI, TIY, Z, BTO, LZH.

Table with columns for station ID, depth (m), time, and seismic data. Includes stations GTA, IMA, FBA, WMO, CHG, GUN, PKI, DMN, GKN, SUF.

Table with columns for station ID, depth (m), time, and seismic data. Includes stations WB5, NUR, NB2, HFS, CLL, KHC.

* JUN 24, 1990 11h 58m 04.92±0.64s
17.699 S ±6.7km 27.604 E ±12.9km
DEPTH = 10.0km (geophysicist)
4.4mb (3 obs.)
ZIMBABWE (580)
mbLg 4.0 (BUL).

Table with columns for station ID, depth (m), time, and seismic data. Includes station KRI.

Table with columns for station ID, depth (m), time, and seismic data. Includes stations BUL, CIR, SLR, BFT, PRY.

Table with columns for station ID, depth (m), time, and seismic data. Includes stations SWZ, SEK, BLF, FRS, HVD.

Table with columns for station ID, depth (m), time, and seismic data. Includes stations LWI, CER, NAI, BCAA, KIC.

Table with columns for station ID, depth (m), time, and seismic data. Includes stations TIC, NB2.

JUN 24, 1990 12h 16m 31.89±0.35s
6.810 N ±3.3km 72.967 W ±4.2km
DEPTH = 167.0 ± 4.1 km
4.7mb (19 obs.)
NORTHERN COLOMBIA (99)

Table with columns for station ID, depth (m), time, and seismic data. Includes stations BMG, FUQ, BOG, SDV, TOV, FISA, MORO, UPA.

Table with columns for station ID, depth (m), time, and seismic data. Includes stations OLLA, PSO, LLAV, CAYA, COTA, GGP, VCI, TCE, TPP, TRN, TBH, SLB, PT08, NNA.

Table with columns for station ID, depth (m), time, and seismic data. Includes stations ZOBO, LPB, CNCB, CCH, SIV, GBTN, RSCP.

Table with columns for station ID, depth (m), time, and seismic data. Includes stations PWLA, OLY, POW, LVNJ, TBR, FVM, MIM, ALQ.

Table with columns for station ID, depth (m), time, and seismic data. Includes stations ANMO, GLD, GOL, RSSD, GLA, MSU, DAU, SCH.

Table with columns for station ID, depth (m), time, and seismic data. Includes stations BW06, PLM, DUG, GSC, SBB, PTI, ISA, TNP, HPI, LRM, KVN, FRI, CMB, FFC.

Table with columns for station ID, depth (m), time, and seismic data. Includes stations MHC, SES, ORV, MIN, WDC, NEW.

Table with columns for station ID, depth (m), time, and seismic data. Includes stations DPW, VGB, EDM, PNT, LON, YKA, TIC, LIC.

Table with columns for station ID, depth (m), time, and seismic data. Includes stations KIC, AIA, INK, MBC, PMR, IMA, NB2, HFS.

* JUN 24, 1990 12h 24m 06.42±2.80s
16.957 N ±19.7km 61.555 W ±19.9km
DEPTH = 10.0km (geophysicist)
4.4mb (3 obs.)
LEEWARD ISLANDS (92)
ML 2.6 (FDF).

BPA 0.30 287 iPc 24 13.28 0.5
S 24 17.20
SEG 0.55 175 ePc 24 18.09 0.5
S 24 24.70
MGH 0.68 250 eP 24 19.78 -0.1
S 24 28.20
PAG 0.93 187 eP 24 24.10 -0.1
S 24 37.00
NEV 0.99 281 eP 24 24.65 -0.5
S 24 37.70
MGG 1.06 168 eP 24 26.31 0.0
S 24 40.30
BBL 1.43 177 eP 24 32.15 -0.2
S.D. = 0.5 on 7 of 7 obs.

* JUN 24, 1990 12h 46m 42.02±0.72s
14.215 S ±22.9km 74.471 W ±13.0km
DEPTH = 10.0km (geophysicist)

PERU (116)
PT06 1.85 282 iPd 47 14.00 0.0
iS 47 34.00
PT02 2.29 303 iPc 47 20.30 -0.2
iS 47 44.70
PT08 3.02 318 iPc 47 31.20 0.1
iS 48 07.80
NNA 3.20 314 eP 47 32.30 -1.1
i 47 35.30
eS 47 59.20
PT10 3.23 311 eP 47 35.00 1.2
e(S) 48 16.50
ZOBO 6.46 109 P 48 20.50 0.4
LPB 6.56 111 P 48 21.00 -0.4
CNCB 6.77 113 P 48 24.40 0.0
S.D. = 0.8 on 8 of 8 obs.

% JUN 24, 1990 13h 02m 18.59±0.83s
39.353 N ± 6.5km 29.198 E ± 8.8km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
ALT 0.77 112 ePg 02 32.50 -1.2
IZI 1.01 12 ePg 02 38.20 0.5
KHL 1.06 166 iPg 02 39.40 0.8
iSg 02 52.10
KCT 1.11 324 iPg 02 39.30 0.0
YLV 1.22 6 iPn 02 40.80 -0.5
GPA 1.27 42 ePn 02 43.00 0.9
BNT 1.40 316 ePn 02 43.80 -0.4
S.D. = 0.9 on 7 of 7 obs.

& JUN 24, 1990 15h 10m 28.64s
64.045 N 148.102 W
DEPTH = 11.6km
CENTRAL ALASKA (1)
<AGS-P>

WRH 0.43 1 iP 10 37.21 -0.2
MCK 0.48 230 iP 10 37.90 -0.7
eS 10 44.90
CCB 0.62 12 iP 10 40.35 -0.6
eS 10 48.27
NEA 0.68 322 iP 10 41.70 -0.3
iS 10 50.99
FBA 0.87 9 iP 10 45.19 0.0
eS 10 58.29
GLM 1.00 18 eP 10 47.36 0.0
Sn 11 00.51
DMW 1.04 88 eP 10 48.23 0.1
eS 11 02.90
HUR 1.27 213 eP 10 52.24 0.1
eS 11 08.62
KTH 1.35 250 eP 10 52.45 -0.8
iS 11 11.41
PAX 1.60 131 iP 10 57.66 0.7
eS 11 18.27
DOT 1.83 101 eP 11 02.60 2.3
SDG 1.91 142 eP 11 02.66 1.3
CUT 1.92 212 iP 11 03.50 2.1
SCM 2.25 171 eP 11 08.58 2.3
GHO 2.31 190 iP 11 06.68 -0.6
SKT 2.60 219 eP 11 10.96 -0.2
KLU 2.75 158 iP 11 15.20 1.7
17 obs. associated

? JUN 24, 1990 15h 25m 42.72±12.99s
29.713 S ±101.km 68.219 W ±89.2km

DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTRS 1.17 247 iPc 26 05.30 0.0
RTLL 1.63 188 iPd 26 10.90 -0.1
eS 26 32.60
RTCB 1.84 196 iPc 26 13.90 0.1
S 26 37.20
CFA 1.89 181 iPc 26 14.50 0.1
eS 26 38.90
RTCV 2.16 187 e(P) 26 17.80 -0.1
S.D. = 0.2 on 5 of 5 obs.

% JUN 24, 1990 15h 25m 55.73±0.58s
39.581 N ± 5.0km 29.038 E ± 5.5km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
KCT 0.85 322 iPg 26 12.20 0.1
ALT 0.98 122 iPn 26 14.50 0.0
YLV 1.02 15 iPn 26 15.20 0.2
BNT 1.16 312 iPn 26 17.70 0.3
EDC 1.18 311 ePn 26 17.40 -0.4
GPA 1.21 54 ePn 26 18.00 -0.2
KHL 1.31 163 ePn 26 20.10 0.1
HRT 1.33 21 ePn 26 20.60 0.3
ISK 1.48 1 ePn 26 22.00 -0.4
S.D. = 0.3 on 9 of 9 obs.

% JUN 24, 1990 16h 04m 03.81±0.75s
47.028 N ± 8.7km 1.444 E ± 5.6km
DEPTH = 10.0km (geophysicist)

FRANCE (538)
ML 2.3 (LDG).

LSF 0.78 176 Pg 04 19.70 0.7
Sg 04 29.30
Sn 04 32.90
TCF 0.91 144 Pg 04 21.50 0.3
Sg 04 33.70
Sn 04 36.20
BGF 1.07 116 Pg 04 23.60 -0.4
Sg 04 38.20
MAF 1.12 136 Pn 04 24.20 -0.6
Pg 04 25.20
Sg 04 40.50
MFF 1.17 249 Pg 04 25.30 -0.4
Sg 04 39.80
AVF 1.33 100 Pn 04 26.50 -1.8
Pg 04 28.40
Sg 04 47.00
SSF 1.41 88 Pg 04 29.40 -0.1
Sg 04 49.10
LOR 1.67 81 Pg 04 34.20 1.0
Sg 04 56.40
SMF 1.69 102 Pg 04 34.90 1.4
Sg 04 57.10
RJF 1.73 178 Pg 04 36.80 2.8X
Sg 04 59.00
LBF 1.73 91 Pn 04 36.20 2.0X
Sg 04 58.30
LPF 1.96 302 Pg 04 37.30 -0.1
Sg 05 03.00
CAF 2.15 168 Pg 04 43.00 2.8X
Sn 05 06.20
Sg 05 12.20
S.D. = 1.0 on 10 of 13 obs.

? JUN 24, 1990 18h 02m 28.86±2.48s
15.223 S ±45.6km 74.518 W ±27.1km
DEPTH = 33.0km (normal)

NEAR COAST OF PERU (115)
PT06 2.24 308 iP 03 04.50 0.2
iS 03 34.80
PT02 2.93 320 iPd 03 13.60 -0.7
iS 03 53.20
PT08 3.80 328 iP 03 26.80 0.0
eS 04 10.20
NNA 3.93 325 iP 03 29.00 0.5
0.4s 8.47nm
e 03 30.80
eS 04 19.00
PT10 3.93 322 iPc 03 31.70 3.2X
eS 04 22.70
ZOBO 6.24 100 P 04 01.70 0.0
S.D. = 0.6 on 5 of 6 obs.

% JUN 24, 1990 18h 22m 23.88±0.79s
45.015 N ± 6.4km 10.276 E ± 9.1km
DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)
BOB 0.64 247 P 22 36.60 -0.1
eSg 22 46.50
MDI 0.86 333 Pd 22 40.60 0.2
eSn 22 54.00
BDI 0.98 166 P 22 43.20 0.7
Pli 1.31 172 P 22 47.50 -0.5
eSg 23 05.50
FVI 2.36 47 P 23 03.00 -0.2
S.D. = 0.6 on 5 of 5 obs.

JUN 24, 1990 19h 05m 21.44±0.48s
37.222 N ±10.9km 49.647 E ± 6.3km
DEPTH = 10.0km (geophysicist)
4.8mb (4 obs.)
CASPIAN SEA (338)

TEH 2.04 136 iPd 05 56.70 0.4
KER 3.53 217 eP 06 17.00 -0.6
MAIO 7.96 94 eP 07 20.00 0.0
0.8s 11.35nm 5.1mb
eS 08 59.00
QUE 16.01 111 eP 09 10.40 2.0
YLV 16.13 288 iP 09 11.50 1.6
VRI 19.16 304 ePc 09 48.50 1.1
MLR 19.57 302 eP 09 52.50 0.0
VAY 21.32 289 eP 10 09.30 -1.3
SKO 22.20 291 eP 10 19.00 -0.4
GKN 30.73 97 P 11 38.60 -0.5
0.6s 9.00nm 4.8mb
DMN 31.28 97 P 11 43.80 -0.2
0.6s 9.00nm 4.8mb
PKI 31.54 97 P 11 45.60 -0.8
HFS 32.34 327 eP 11 52.00 -0.7
0.5s 1.90nm 4.3mb
CHG 46.67 99 eP 13 51.30 -0.8
S.D. = 1.0 on 14 of 14 obs.

JUN 24, 1990 19h 05m 23.67±0.89s
38.721 N ± 6.6km 27.371 E ± 9.6km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
CIN 1.25 153 ePg 05 47.00 0.1
iSg 06 05.00
EZN 1.37 324 iPn 05 48.90 0.1
EDC 1.67 13 iPn 05 53.30 0.3
BNT 1.69 14 ePn 05 53.00 -0.3
KGT 1.73 358 iPn 05 53.50 -0.4
KHL 1.73 103 ePn 05 59.00 4.9X
ALT 2.16 80 ePn 06 00.00 -0.3
YLV 2.41 39 ePn 06 04.00 0.2
HRT 2.75 39 ePn 06 09.00 0.4
S.D. = 0.4 on 8 of 9 obs.

* JUN 24, 1990 19h 12m 03.53±3.61s
41.410 N ±24.5km 23.416 E ±14.5km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)
ML 1.1 (THE).

SRS 0.32 155 ePg 12 10.10 -0.1
iSg 12 16.90
KNT 0.46 238 ePg 12 12.30 -0.6
eSg 12 20.40
SOH 0.59 185 ePg 12 15.30 -0.2
VAY 0.64 262 ePn 12 16.30 -0.1
THE 0.85 204 ePg 12 20.30 0.4
GRG 0.89 240 ePg 12 21.20 0.6
eSg 12 34.40
S.D. = 0.6 on 6 of 6 obs.

JUN 24, 1990 19h 34m 05.00±0.66s
32.442 N ± 8.7km 49.898 E ± 7.4km
DEPTH = 33.0km (normal)
4.5mb (9 obs.)
WESTERN IRAN (347)
Felt at Forson.

KER 3.01 310 ePd 35 02.50 10.8X
TEH 3.51 20 eP 34 59.00 0.3
BRF 6.37 174 ePn 35 39.60 0.6

24d 19h

MAIO	8.82	61	eSn	36 51.10		
			eP	36 13.00	-0.2	
			eS	38 15.00		
HRI	11.94	278	eP	36 55.00	-0.9	
PRNI	12.90	265	eP	37 08.00	-0.7	
MBH	13.14	262	eP	37 11.00	-0.8	
ELL	17.01	290	eP	38 07.00	5.0X	
VRI	22.32	314	ePc	39 02.00	0.9	
MLR	22.63	312	ePc	39 08.50	4.2X	
VAY	23.51	300	eP	39 14.20	1.5	
SKO	24.49	301	eP	39 24.50	2.3	
OHR	24.77	299	eP	39 25.30	0.2	
BRT	27.42	297	P	39 53.00	3.4X	
DUI	29.57	298	P	40 09.00	0.0	
ARV	30.92	302	P	40 15.50	-5.4X	
PKI	31.04	90	P	40 00.00	-22.5X	
ASS	31.06	301	P	40 23.00	0.8	
FVI	31.61	307	P	40 27.00	0.2	
CRE	31.65	302	P	40 28.00	0.6	
SFI	31.76	302	P	40 30.00	1.8	
KHC	31.78	312	eP	40 30.50	2.1	
PGD	31.85	302	P	40 31.00	1.8	
BDI	32.68	302	P	40 36.50	0.2	
SQTA	32.81	308	iPd	40 36.40	-1.0	
	0.6s	24.80nm		5.3mb		
		i	40 37.00			
		i	40 47.40			
CLL	32.85	316	eP	40 37.00	-0.6	
MDI	33.55	305	P	40 43.50	-0.2	
VAI	34.21	305	P	40 49.00	-0.5	
CKI	34.38	303	P	40 45.00	-5.9X	
SBF	34.93	301	eP	40 55.10	-0.7	
	0.6s	7.20nm		4.8mb		
LPG	35.57	304	eP	41 01.40	-0.1	
	0.8s	4.05nm		4.4mb		
BNI	35.58	303	P	41 00.90	-0.5	
LPL	35.58	304	eP	41 00.80	-0.7	
	0.8s	8.05nm		4.7mb		
HFS	36.52	330	eP	41 07.20	-1.7	
	0.8s	4.20nm		4.4mb		
LBF	37.64	306	eP	41 17.40	-1.2	
	0.6s	1.80nm		4.1mb		
SMF	37.70	306	eP	41 18.20	-0.8	
	0.8s	5.35nm		4.5mb		
SSF	37.97	306	eP	41 20.30	-1.0	
	0.8s	4.05nm		4.3mb		
FLN	40.79	309	eP	41 44.00	-0.7	
	0.6s	3.60nm		4.3mb		
LIC	57.28	255	(P)	44 00.50	8.5X	
MBC	71.37	357	eP	45 22.00	-1.0	
	S.D. = 1.1	on 32	of 40	obs.		
JUN 24, 1990 19h 34m 36.08±0.39s						
44.601 N ± 2.9km 7.287 E ± 3.8km						
DEPTH = 5.0km (geophysicist)						
NORTHERN ITALY (545)						
ML 2.0 (LDG), 2.0 (GEN).						
PZZ	0.16	234	P	34 39.60	0.1	
			S	34 41.34		
STV	0.36	176	P	34 43.09	-0.2	
			S	34 47.29		
ENR	0.39	166	P	34 43.39	-0.5	
			S	34 48.32		
RRL	0.48	312	P	34 45.34	-0.4	
			S	34 52.21		
ROB	0.52	126	P	34 46.98	0.5	
			S	34 54.37		
RSP	0.55	358	P	34 47.29	0.2	
			S	34 54.06		
SBF	0.75	172	Pg	34 51.80	0.8	
			Sg	34 59.90		
FIN	0.77	120	P	34 50.88	-0.6	
			S	35 00.62		
IMI	0.81	148	P	34 51.80	-0.6	
			S	35 02.26		
LSD	0.86	354	P	34 53.44	0.1	
			S	35 04.52		
PCP	0.90	93	P	34 54.16	0.3	
FRF	1.14	204	Pg	34 57.40	-0.4	
			Sg	35 11.60		
LRG	1.33	211	Pg	35 01.60	0.6	
			Sg	35 18.40		
LMR	1.39	204	Pg	35 02.20	0.2	
			Sg	35 18.80		
	S.D. = 0.5	on 14	of 14	obs.		

? JUN 24, 1990 20h 02m 21.99±5.23s					
31.226 S ± 22.3km 68.431 W ± 37.7km					
DEPTH = 93.4 ± 49.7 km					
SAN JUAN PROVINCE, ARGENTINA (137)					
RTLL	0.11	198	iPc	02 35.40	-0.3
			eS	02 46.20	
RTCB	0.41	230	iPd	02 37.00	0.2
CFA	0.41	157	ePd	02 37.00	0.3
			eS	02 49.00	
RTCv	0.64	188	e(P)	02 38.30	-0.2
RTRS	1.38	320	ePd	02 46.70	0.0
	S.D. = 0.5	on 5	of 5	obs.	
% JUN 24, 1990 20h 15m 11.72±0.87s					
40.940 N ± 7.6km 22.569 E ± 6.8km					
DEPTH = 10.0km (geophysicist)					
GREECE (364)					
ML 1.0 (THE).					
GRG	0.13	277	ePg	15 14.70	-0.2
			eSg	15 17.10	
KNT	0.33	48	ePg	15 18.70	0.1
			eSg	15 23.40	
THE	0.43	136	iPg	15 20.10	-0.4
SOH	0.61	101	iPg	15 24.10	0.1
			eSg	15 32.20	
LIT	0.84	184	ePg	15 28.30	0.3
	S.D. = 0.4	on 5	of 5	obs.	
JUN 24, 1990 20h 17m 37.65±0.91s					
46.065 N ± 10.1km 14.266 E ± 5.6km					
DEPTH = 10.0km (geophysicist)					
YUGOSLAVIA (383)					
ML 2.3 (LJU).					
LJU	0.19	97	iPg	17 40.60	-1.2
			iSg	17 43.50	
VOY	0.26	263	iPg	17 42.80	-0.4
			eSg	17 47.50	
CEY	0.35	161	iPg	17 44.40	-0.4
			eSg	17 49.40	
TRI	0.50	225	ePg	17 40.30	0.5
			iSg	17 55.00	
VBY	0.89	129	eP	18 00.00	5.3X
			iSg	18 09.80	
FVI	1.16	298	P	17 59.30	0.1
			eSg	18 18.20	
PTJ	1.19	97	eP	18 01.40	1.5
	S.D. = 1.2	on 6	of 7	obs.	
% JUN 24, 1990 20h 54m 58.92±0.99s					
30.509 S ± 9.9km 116.894 E ± 8.8km					
DEPTH = 10.0km (geophysicist)					
WESTERN AUSTRALIA (590)					
BAL	0.19	239	iPd	55 02.30	-0.8
KLB	1.31	146	eP	55 24.20	1.0
			iS	55 41.30	
MRWA	1.50	329	iPd	55 26.60	0.7
			eS	55 45.00	
MUN	1.58	202	eP	55 27.20	0.2
			iS	55 47.00	
COOL	3.68	97	eP	55 56.00	-1.1
			iS	56 38.50	
	S.D. = 1.3	on 5	of 5	obs.	
% JUN 24, 1990 21h 09m 08.88±2.43s					
38.783 N ± 20.7km 27.439 E ± 12.0km					
DEPTH = 10.0km (geophysicist)					
TURKEY (366)					
EZN	1.35	321	iPn	09 33.30	-0.4
EDC	1.60	12	iPn	09 37.70	0.5
BNT	1.61	13	ePn	09 37.40	-0.1
KCT	1.63	26	iPn	09 37.40	-0.3
KGT	1.67	356	ePn	09 39.00	0.7
ALT	2.10	82	ePn	09 45.00	0.3
YLV	2.32	39	ePn	09 47.00	-0.8
HRT	2.66	39	ePn	09 57.00	4.4X
	S.D. = 0.7	on 7	of 8	obs.	
& JUN 24, 1990 21h 17m 46.33s					
62.033 N 149.809 W					
DEPTH = 41.5km					
CENTRAL ALASKA (1)					
<AGS-P>. ML 3.8 (PMR). Felt					

(III) at Willow.					
PWA	0.39	185	iP	17 55.78	0.1
CUT	0.43	330	iP	17 55.77	-0.5
GHO	0.49	122	iP	17 56.60	-0.6
			eS	18 05.17	
PLRM	0.55	144	iP	17 56.97	-0.8
			eS	18 06.96	
PMR	0.55	144	iPc	17 57.00	-0.7
SUA	0.72	218	iP	18 00.15	-0.2
			iS	18 09.97	
SML	0.73	107	iP	17 59.31	-1.1
PMS	0.80	171	eP	18 00.64	-0.7
SKT	0.81	267	iP	18 00.60	-0.9
			eS	18 12.57	
HUR	0.95	5	iP	18 02.60	-0.8
			eS	18 15.45	
SCM	1.19	99	iP	18 06.06	-0.8
CGLM	1.28	236	iP	18 07.46	-0.6
NCG	1.28	242	iP	18 07.31	-0.9
CRP	1.36	237	iP	18 08.81	-0.5
SPU	1.37	232	iP	18 08.84	-0.6
SLKM	1.54	188	eP	18 11.09	-0.7
KTH	1.61	342	iP	18 12.02	-0.8
			eS	18 32.64	
TOA	1.71	86	iPc	18 14.40	0.1
GLI	1.74	130	iP	18 13.87	-0.8
			eS	18 33.99	
MCK	1.75	13	eP	18 14.16	-0.6
VZW	1.84	121	iP	18 15.22	-0.8
			eS	18 37.22	
VLZ	1.89	117	iP	18 15.60	-1.1
			eS	18 39.78	
KLU	1.93	105	iP	18 16.40	-0.9
RDT	1.93	222	iP	18 16.89	-0.4
SEW	1.94	175	eP	18 17.42	0.0
SDG	2.05	74	iP	18 19.06	-0.1
NNL	2.12	201	eP	18 21.95	1.8
RED	2.16	223	eP	18 20.31	-0.4
PAX	2.22	63	iP	18 21.31	-0.3
HIN	2.29	134	iP	18 21.17	-1.4
CVA	2.46	125	eP	18 23.57	-1.3
WRH	2.57	17	eP	18 24.74	-1.6
NEA	2.58	7	eP	18 24.53	-1.9
CNPM	2.61	196	eP	18 27.52	0.5
SGAM	2.70	123	eP	18 26.70	-1.6
DMW	2.75	41	eP	18 29.66	0.7
CCB	2.78	18	eP	18 27.43	-1.9
SVW	2.93	254	iPc	18 30.30	-1.3
RAGM	2.98	121	eP	18 30.70	-1.7
FBA	3.02	17	eP	18 31.10	-1.7
TTA	3.02	290	eP	18 30.90	-2.0
DOT	3.09	56	eP	18 33.55	-0.4
MID	3.12	145	eP	18 33.48	-0.7
GLM	3.16	19	eP	18 32.86	-2.0
			eS	19 08.44	
AUE	3.20	215	eP	18 35.57	0.2
TMW	3.40	65	eP	18 38.85	0.7
MCNL	3.63	220	eP	18 41.18	-0.3
CDD	3.65	213	eP	18 40.36	-1.4
BALM	3.71	102	iP	18 40.26	-2.5
WAX	3.72	112	eP	18 39.90	-2.9
IMA	4.39	339	ePd	18 50.00	-2.4
KDC	4.51	199	eP	18 50.70	-3.2
	0.6s	22.17nm			
FYU	4.96	22	eP	18 58.78	-1.5
HYT	6.03	96	P	19 12.00	-3.4
INK	9.28	40	P	19 58.00	-2.4
	55	obs.	associated		
* JUN 24, 1990 21h 31m 24.39±0.73s					
38.473 N ± 10.8km 100.096 E ± 7.2km					
DEPTH = 33.0km (normal)					
4.3mb (2 obs.)					
GANSU PROVINCE, CHINA (322)					
ML 4.7 (BJI).					
GTA	0.96	347	Pg	31 43.00	1.3
LZH	3.82	127	ePn	32 27.50	5.0X
			Pg	32 32.50	
			Sn	33 05.50	
BTO	7.96	71	ePn	33 20.00	-0.7
	N 13s		0.70um		
	E 13s		0.90um		
CD2	8.12	157	eP	33 29.80	6.8X
XAN	8.39	119	eP	33 28.30	1.6
	N 10s		2.10um		

HHC 9.16 71 eP 33 35.60 -1.7
 Z 14s 1.20um
 TIY 9.76 91 eP 33 45.50 -0.1
 Z 12s 1.00um
 WMO 10.77 304 eP 34 07.00 7.6X
 Z 11s 1.40um
 N 10s 1.10um
 WHN 14.16 120 eP 34 45.20 0.7
 PKI 16.41 233 P 35 13.00 -1.1
 0.8s 15.00nm 4.2mb
 DMN 16.57 234 P 35 15.40 -0.7
 GKN 16.60 236 P 35 17.00 0.7
 1.0s 32.00nm 4.4mb
 CHG 19.61 183 ePd 35 43.50 -9.6X
 CN2 19.79 66 eP 35 58.20 3.5X
 Z 16s 0.70um
 NDI 21.37 250 iPd 36 21.80 10.7X
 1.0s 20.00nm
 S.D. = 1.3 on 9 of 15 obs.

* JUN 24, 1990 23h 02m 27.17± 1.91s
 38.146 N ± 10.7km 15.011 E ± 13.4km
 DEPTH = 152.0 ± 19.4 km

SICILY (398)

MNO 0.33 229 P 02 48.50 0.1
 ATN 0.36 88 P 02 48.00 -0.2
 eSg 03 02.50
 GIB 0.79 259 P 02 49.80 -1.1
 eSn 03 05.50
 SOI 0.83 95 Pc 02 51.20 0.2
 iSg 03 08.50
 MEU 1.05 184 Pd 02 53.90 1.0
 TDS 1.83 34 P 03 00.70 -0.1
 eSg 03 24.50
 ORI 2.22 30 P 03 05.50 0.1
 SGO 2.42 5 P 03 08.00 0.2
 BRT 3.21 31 P 03 18.50 0.7
 eSn 03 53.50
 IGT 4.38 70 eP 03 31.50 -1.7
 OHR 5.36 55 eP 03 46.50 0.2
 FNA 5.59 60 eP 03 50.00 0.7
 LIT 6.13 69 eP 03 56.50 -0.1
 S.D. = 0.8 on 13 of 13 obs.

JUN 24, 1990 23h 06m 23.63± 0.88s
 21.537 S ± 8.9km 68.669 W ± 8.1km
 DEPTH = 131.0 ± 8.3 km
 4.5mb (8 obs.)

CHILE-BOLIVIA BORDER REGION (124)

ANT 2.69 216 iPc 07 06.80 -0.1
 iS 07 34.70
 CNCB 4.75 8 iPc 07 35.00 0.1
 CCH 4.77 30 Pc 07 35.10 0.2
 LPB 5.01 6 P 07 34.00 -4.2X
 1.0s 64.00nm 4.8mb
 i 08 15.00
 ZOBO 5.27 6 P 07 42.00 0.1
 Z 20s 0.12um 4.2MazX
 LR 09 16.00
 ARE 5.71 332 eP 07 42.00 -5.7X
 IS 08 46.00
 SIV 9.06 54 iPc 08 28.60 -4.2X
 NNA 12.30 319 eP 09 15.50 0.0
 1.0s 13.00nm 4.5mb
 PPD 16.13 95 eP 10 05.30 1.1
 e 10 07.10
 e 10 12.70
 VAO 20.14 98 (P) 10 48.00 -1.6
 BAO 20.45 77 eP 10 51.30 -1.5
 FVM 62.64 341 P 16 33.90 -2.3
 0.7s 18.37nm 5.1mb
 ALQ 66.65 327 eP 17 02.20 -0.2
 0.8s 2.43nm 4.1mb
 ANMO 66.65 327 P 17 02.80 0.4
 0.6s 2.00nm 4.2mb
 KIC 68.50 74 (P) 17 16.70 2.6
 0.5s 9.00nm 4.9mb
 GOL 69.90 331 P 17 22.50 0.0
 RSSD 72.93 334 P 17 39.80 -0.6
 BW06 74.26 330 P 17 49.00 0.8
 TNP 74.80 322 P 17 52.00 0.6
 0.6s 1.85nm 4.0mb
 KVN 75.97 322 P 17 57.80 -0.2
 ORV 78.27 321 P 18 11.40 1.0
 WDC 79.54 321 ePc 18 17.00 -0.3

YKA 91.30 341 eP 19 15.10 0.2
 0.7s 1.90nm 4.4mb
 S.D. = 1.1 on 20 of 23 obs.
 JUN 25, 1990 00h 01m 16.14± 0.55s
 40.334 N ± 5.0km 22.066 E ± 4.7km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 2.2 (THE).

LIT 0.40 125 ePg 01 24.00 -0.3
 eSg 01 28.80
 GRG 0.67 22 ePg 01 29.60 0.1
 eSg 01 39.60
 FNA 0.69 311 ePg 01 29.10 -0.8
 eSg 01 39.70
 THE 0.75 66 iPgd 01 30.20 -0.6
 eSg 01 42.70
 KNT 1.04 37 ePg 01 36.60 0.8
 eSg 01 52.40
 SOH 1.10 63 ePb 01 36.90 0.1
 OHR 1.24 309 iPn 01 38.20 -1.0
 AGG 1.33 171 iPb 01 40.10 -0.5
 SRS 1.40 56 ePb 01 41.90 0.2
 eSb 02 01.10
 IGT 1.55 240 ePb 01 45.40 1.5
 SKO 1.70 344 ePn 01 46.50 0.5
 S.D. = 0.8 on 11 of 11 obs.

% JUN 25, 1990 00h 34m 02.55± 0.85s
 37.721 N ± 7.1km 29.179 E ± 9.7km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

KHL 0.66 24 iPg 34 14.10 -1.6
 iSg 34 24.60
 YER 0.92 231 iPg 34 19.20 -1.0
 iSg 34 34.20
 ELL 1.13 149 iPn 34 24.00 0.2
 BCK 1.15 103 iPn 34 25.00 0.9
 ALT 1.52 29 iPn 34 29.80 -0.1
 IZI 2.62 5 ePn 34 46.00 0.3
 GPA 2.71 19 ePn 34 51.00 4.0X
 BNT 2.81 340 ePn 34 50.00 1.7
 EDC 2.81 339 ePn 34 50.00 1.6
 YLV 2.85 3 ePn 34 47.00 -1.9
 HRT 3.12 7 ePn 34 57.00 4.3X
 ISK 3.34 358 ePn 35 02.00 6.2X
 S.D. = 1.5 on 9 of 12 obs.

JUN 25, 1990 00h 42m 30.48± 0.57s
 38.248 N ± 6.3km 140.780 E ± 10.6km
 DEPTH = 114.0 ± 4.7 km
 4.0mb (3 obs.)

HONSHU, JAPAN (227)

YAMJ 0.59 263 IPd 42 47.60 -1.0
 S 42 59.80
 OFUJ 1.08 40 iP+ 42 53.30 0.2
 S 43 09.00
 NIJ 1.73 235 P 43 00.80 0.1
 KAKJ 2.10 194 P 43 04.70 -0.6
 S 43 28.10
 AOMJ 2.33 352 P 43 09.20 0.8
 CHJJ 2.62 214 P 43 13.00 0.8
 MTMJ 2.89 236 P 43 16.70 0.7
 MRRJ 4.18 3 eP 43 32.80 -0.4
 GUN 46.55 274 P 50 49.20 0.4
 PKI 47.08 274 P 50 52.80 -0.1
 DMN 47.30 274 P 50 54.40 -0.2
 GKN 47.48 275 P 50 55.00 -0.9
 WRA 58.20 187 Pc 52 14.90 0.1
 0.7s 2.00nm 4.2mb
 HFS 72.78 335 eP 53 47.70 0.0
 0.4s 0.80nm 3.9mb
 NB2 72.88 337 P 53 48.50 0.2
 0.8s 2.20nm 4.0mb
 ZOBO 146.48 57 PKP 02 03.50 4.2X
 LPB 146.68 57 (PKP) 01 54.00 -5.4X
 CNCB 146.96 58 PKP 02 03.90 3.9X
 S.D. = 0.6 on 15 of 18 obs.

* JUN 25, 1990 00h 57m 32.24± 1.17s
 38.593 N ± 8.2km 27.428 E ± 14.4km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

CIN 1.12 152 ePg 57 53.00 -0.2
 iSg 58 09.00
 EZN 1.50 326 iPn 57 59.80 0.6
 EDC 1.78 11 iPn 58 02.60 -0.7
 BNT 1.80 12 ePn 58 03.30 -0.3
 KCT 1.80 23 ePn 58 02.30 -1.3
 IZI 2.35 42 ePn 58 12.80 1.2
 YLV 2.48 37 ePn 58 14.00 0.6
 S.D. = 1.1 on 7 of 7 obs.

? JUN 25, 1990 01h 20m 01.56± 1.01s
 42.222 N ± 10.8km 6.907 W ± 9.9km
 DEPTH = 10.0km (geophysicist)

SPAIN (377)

mbLg 2.6 (MDD).

ERUA 0.24 315 iP 20 06.60 -0.2
 eS 20 11.20
 EMON 1.25 346 eP 20 25.00 0.1
 eS 20 41.00
 EZAM 1.33 267 eP 20 26.20 0.1
 eS 20 43.70
 GUD 2.60 126 eP 20 44.50 0.0
 eS 21 15.40
 S.D. = 0.2 on 4 of 4 obs.

JUN 25, 1990 01h 57m 57.12± 0.61s
 42.474 N ± 5.3km 19.036 E ± 4.8km
 DEPTH = 6.6 ± 7.0 km

YUGOSLAVIA (383)

MD 2.7 (TTG). Felt (III) at Titograd.

TTG 0.17 105 iPgc 58 01.50 0.7
 iSg 58 05.00
 BDV 0.25 219 iPgd 58 02.60 0.4
 iSg 58 07.70
 NKY 0.34 355 ePg 58 04.50 0.5
 iSg 58 10.50
 HCY 0.40 266 ePg 58 05.40 0.2
 iSg 58 12.20
 ULC 0.53 163 ePg 58 06.20 -1.7
 eSg 58 14.50
 BRY 0.56 320 IPgc 58 08.50 0.1
 iSg 58 18.50
 PVY 0.70 80 iPgd 58 10.10 -1.1
 iSg 58 21.00
 IVA 0.75 58 ePg 58 11.40 -0.7
 iSg 58 22.00
 PLE 0.89 17 ePg 58 14.50 -0.2
 eSg 58 29.00
 SKO 1.85 105 iPn 58 31.00 1.4
 iSg 58 53.70
 OHR 1.90 135 iPn 58 31.50 1.2
 HVAR 2.03 291 i(Pn) 58 35.20 3.0X
 iSn 59 01.60
 BRT 2.10 221 P 58 31.50 -1.8
 LCI 2.29 201 P 58 37.00 1.9
 VAY 2.88 112 ePn 58 48.80 4.5X
 SGO 3.39 237 P 58 44.00 -7.5X
 MGR 3.51 229 P 58 51.30 -2.0
 SDI 3.96 261 P 59 01.58 1.8
 VOY 5.13 316 e(Pn) 59 15.40 -0.9
 eSg 00 16.28

S.D. = 1.4 on 16 of 19 obs.

* JUN 25, 1990 02h 40m 27.45± 2.37s
 41.427 N ± 17.5km 23.383 E ± 9.5km
 DEPTH = 10.0km (geophysicist)
 GREECE-BULGARIA BORDER REGION (363)
 ML 2.5 (THE).

SRS 0.35 153 iPgc 40 34.20 -0.4
 eSg 40 41.00
 KNT 0.45 234 ePg 40 36.40 -0.2
 eSg 40 44.10
 SOH 0.61 182 ePg 40 39.50 -0.2
 eSg 40 49.50
 VAY 0.62 260 ePn 40 40.30 0.4
 THE 0.85 202 ePg 40 44.10 0.2
 eSg 40 57.70
 GRG 0.88 238 ePg 40 44.30 0.0
 eSg 40 57.90
 OUR 1.18 157 iPc 40 49.90 0.4
 eSb 41 07.20
 LIT 1.49 207 ePb 40 54.60 0.3
 eSb 41 17.10

25d 02h

FNA 1.65 248 ePb 40 55.90 -0.7
 IGT 3.00 232 ePn 41 16.10 0.2
 S.D. = 0.4 on 10 of 10 obs.

* JUN 25, 1990 02h 44m 08.21 ± 1.19s
 38.652 N ± 0.5km 27.473 E ± 12.7km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

CIN 1.16 155 ePg 44 30.00 0.2
 iSg 44 47.00
 EZN 1.47 323 iPn 44 35.30 0.6
 KHL 1.64 101 iPn 44 39.10 1.8
 YER 1.64 157 ePn 44 42.00 4.7X
 EDC 1.72 10 iPn 44 38.00 -0.3
 KCT 1.73 23 iPn 44 38.90 0.3
 BNT 1.74 11 ePn 44 37.30 -1.3
 ALT 2.10 78 ePn 44 44.00 0.1
 IZI 2.29 42 ePn 44 49.70 3.1X
 YLV 2.41 37 ePn 44 49.00 0.6
 ISK 2.70 26 ePn 44 47.00 -5.4X
 BCK 2.73 115 ePn 44 51.00 -2.0
 GPA 2.74 52 ePn 44 59.00 6.0X
 HRT 2.75 37 ePn 44 57.00 3.8X
 DMK 3.17 4 ePn 45 11.00 11.9X
 S.D. = 1.3 on 9 of 15 obs.

* JUN 25, 1990 02h 52m 19.44 ± 1.31s
 6.224 S ± 11.7km 76.136 W ± 15.0km
 DEPTH = 33.0km (normol)
 4.8mb (1 obs.)
 NORTHERN PERU (111)

PT08 5.71 184 iPd 53 45.80 1.2
 iS 54 43.00
 NNA 5.77 187 eP 53 44.00 -1.1
 eS 54 25.00
 PT10 5.87 188 eP 53 51.00 4.5X
 eS 54 43.50
 PT02 6.68 183 eP 53 57.20 -0.7
 iS 54 00.30
 PT06 7.56 181 iP 54 11.20 1.0
 iS 55 17.90
 ZOBO 12.70 142 P 55 21.00 -0.1
 CNCB 13.20 144 eP 55 27.00 -0.8
 i 55 38.00
 CCH 14.78 139 P 55 54.50 6.3X
 SIV 17.67 125 P 56 25.50 0.7
 MBC 86.05 351 eP 04 57.50 -0.1
 0.6s 4.00nm 4.8mb
 S.D. = 1.0 on 8 of 10 obs.

JUN 25, 1990 03h 02m 53.62 ± 0.47s
 43.182 N ± 3.8km 12.813 E ± 6.0km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)

ASS 0.16 225 Pc 02 57.10 -0.2
 eSg 02 59.90
 ARV 0.33 17 Pc 03 00.10 -0.4
 eSg 03 05.40
 CRE 0.77 306 P 03 08.90 0.2
 eSg 03 20.00
 RSM 0.79 341 P 03 09.10 0.1
 eSg 03 20.50
 AQU 0.93 152 Pd 03 11.90 0.4
 eSg 03 27.00
 SFI 1.02 317 P 03 13.30 0.5
 eSg 03 27.30
 PGD 1.05 312 P 03 14.10 0.5
 eSg 03 28.50
 AZI 1.28 159 P 03 17.50 0.2
 RDP 1.42 183 P 03 19.50 -0.1
 SDI 1.65 153 P 03 22.50 -0.3
 BDI 1.83 299 P 03 24.50 -1.0
 S.D. = 0.5 on 11 of 11 obs.

? JUN 25, 1990 03h 03m 12.42 ± 0.96s
 45.815 N ± 11.5km 26.663 E ± 13.3km
 DEPTH = 90.0km (geophysicist)
 ROMANIA (358)

MLR 0.60 238 iPd 03 28.00 -0.4
 ISR 0.68 187 ePc 03 30.00 0.9
 PPE 0.78 59 eP 03 31.00 1.1
 CLI 0.85 30 iPc 03 30.00 -0.8
 CFR 1.22 120 iPc 03 35.00 0.0

TLB 1.56 141 iPd 03 38.50 -0.8
 S.D. = 1.1 on 6 of 6 obs.

JUN 25, 1990 03h 20m 01.42 ± 0.33s
 45.215 N ± 2.9km 7.243 E ± 3.4km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.7 (LDG), 2.5 (GEN).

RSP 0.06 171 P 20 03.84 0.0
 S 20 04.96
 LSD 0.25 346 P 20 05.89 -1.0
 S 20 08.66
 BNI 0.43 248 Pd 20 09.50 -0.8
 eSg 20 15.10
 RRL 0.44 228 P 20 09.78 -0.7
 S 20 15.42
 LPG 0.45 309 Pg 20 09.60 -1.0
 Sg 20 15.10
 LPL 0.47 310 Pg 20 09.90 -1.1
 Sg 20 15.50
 ORO 0.66 51 P 20 14.50 -0.2
 eSg 20 24.00
 ORX 0.67 51 P 20 13.88 -0.9
 S 20 23.63
 DOI 0.71 180 P 20 15.50 0.0
 eSg 20 25.30
 PZZ 0.72 188 P 20 15.53 -0.1
 S 20 24.86
 STV 0.97 177 P 20 20.55 0.6
 S 20 32.34
 ENR 1.00 173 P 20 19.32 -1.1
 ROB 1.02 154 P 20 21.16 0.4
 S 20 34.91
 PCP 1.14 126 P 20 23.32 0.4
 S 20 38.70
 FIN 1.22 145 P 20 24.55 0.4
 S 20 39.21
 VAI 1.26 58 P 20 24.90 0.2
 eSg 20 42.80
 SBF 1.36 174 Pg 20 31.40 5.0X
 Sg 20 47.10
 IMI 1.38 160 P 20 26.50 -0.3
 S 20 43.21
 FRF 1.71 195 Pg 20 34.60 3.2X
 Sg 20 56.50
 LRG 1.87 200 Pg 20 36.60 2.9X
 Sg 21 02.20
 LMR 1.95 196 Pg 20 38.80 3.9X
 Sg 21 04.00
 SMF 2.77 302 Pn 20 48.00 1.3
 Pg 20 54.60
 Sg 21 28.20
 LBF 2.88 309 Pn 20 49.50 1.3
 Pg 20 56.10
 LOR 3.12 312 Pn 20 52.40 0.8
 Pg 21 01.80
 AVF 3.14 302 Pg 21 01.30 9.5X
 SSF 3.19 307 Pn 20 53.50 1.0
 Pg 21 01.70
 BGF 3.35 295 Pn 20 55.60 0.7
 Pg 21 05.30
 Sg 21 46.20
 MAF 3.43 289 Pg 21 06.40 10.4X
 Sg 21 48.90
 S.D. = 0.8 on 22 of 28 obs.

% JUN 25, 1990 04h 05m 25.23 ± 0.56s
 40.453 N ± 6.4km 15.570 E ± 7.8km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN ITALY (390)

SGO 0.23 298 Pc 05 29.50 -0.6
 iSg 05 34.00
 MGR 0.32 182 Pc 05 32.50 0.7
 BSS 0.67 300 P 05 38.50 -0.1
 eSg 05 50.00
 ORI 0.78 120 P 05 40.00 -0.4
 TDS 0.99 143 P 05 44.40 0.4
 DUI 1.47 325 P 05 52.00 0.2
 SDI 1.82 314 P 05 57.20 0.3
 eSn 06 20.00
 AZI 2.22 314 P 06 03.00 0.4
 ATN 2.29 182 P 06 03.00 -0.7
 eSn 06 32.00
 SOI 2.41 171 P 06 05.00 -0.3
 S.D. = 0.5 on 10 of 10 obs.

* JUN 25, 1990 04h 12m 06.49 ± 0.81s
 5.256 S ± 6.8km 79.235 W ± 19.9km
 DEPTH = 33.0km (normol)
 4.4mb (3 obs.)
 NORTHERN PERU (111)

TUNG 3.89 12 iP 13 05.00 -0.8
 VC1 4.66 10 eP 13 17.60 0.7
 QTO 5.07 8 eP 13 23.00 0.4
 GGP 5.09 7 eP 13 23.30 0.3
 CAYA 5.45 13 eP 13 27.20 -0.8
 eS 14 49.50
 COTA 5.63 9 P 13 31.50 1.0
 PSO 6.68 17 eP 13 39.50 -5.8X
 NNA 7.09 161 iPc 13 49.50 -1.3
 0.9s 12.60nm 4.9mb X
 eS 15 16.50
 PT10 7.14 162 i(P) 13 54.80 3.5
 eS 15 13.00
 PT08 7.17 158 iPc 13 52.50 0.4
 iS 15 06.90
 PT02 8.12 160 e(P) 14 03.30 -1.9
 i(S) 15 37.60
 BOG 11.09 28 eP 14 51.00 4.8X
 ZOBO 15.45 136 P 15 43.00 -1.3
 Z 16s 0.27um
 LR 20 46.00
 LPB 15.65 137 P 15 48.00 1.3
 CNCB 15.92 137 eP 15 48.00 -2.4
 i 15 52.00
 CCH 17.59 134 eP 16 13.00 1.8
 SIV 20.77 122 P 16 41.30 -6.1X
 LNO 43.80 340 eP 20 11.30 0.4
 TUL 43.80 340 eP 20 10.30 -0.7
 1.0s 8.00nm 4.5mb
 e 20 17.70
 YKA 72.76 344 eP 23 31.90 -1.2
 0.6s 1.10nm 4.0mb
 INK 82.43 342 eP 24 27.00 0.5
 MBC 84.61 351 eP 24 37.50 0.1
 0.6s 3.00nm 4.7mb
 GKN 152.67 32 PKP 32 00.00 5.1X
 S.D. = 1.5 on 19 of 23 obs.

JUN 25, 1990 04h 16m 35.99 ± 0.55s
 42.486 N ± 5.9km 19.070 E ± 4.5km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)
 MD 2.2 (TTG).

TTG 0.15 112 iPg 16 40.00 0.5
 iSg 16 43.70
 BDV 0.27 222 ePg 16 41.70 0.0
 eSg 16 47.00
 NKY 0.33 351 ePg 16 43.40 0.5
 eSg 16 49.50
 HCY 0.42 265 ePg 16 44.40 -0.3
 eSg 16 51.10
 BRY 0.57 317 ePg 16 47.50 -0.1
 eSg 16 57.20
 PVY 0.68 80 ePg 16 49.00 -0.5
 eSg 16 59.50
 SKO 1.83 105 ePn 17 07.00 -0.8
 DHR 1.89 136 ePn 17 09.30 0.7
 S.D. = 0.6 on 8 of 8 obs.

? JUN 25, 1990 05h 04m 45.26 ± 2.92s
 44.174 N ± 14.8km 8.559 E ± 19.1km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 1.8 (GEN).

FIN 0.25 278 P 04 51.00 0.3
 S 04 55.00
 PCP 0.37 358 P 04 52.85 0.0
 S 04 57.98
 ROB 0.51 284 P 04 55.31 -0.3
 S 05 03.21
 IMI 0.55 242 P 04 56.44 0.0
 S 05 04.03
 S.D. = 0.4 on 4 of 4 obs.

* JUN 25, 1990 05h 16m 25.05 ± 1.54s
 40.432 N ± 12.7km 21.540 E ± 9.6km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)

ML 2.5 (THE), 2.5 (SKO).
 FNA 0.37 340 iPg 16 32.50 -0.2
 eSg 16 38.10
 LIT 0.80 114 ePg 16 40.50 -0.1
 eSg 16 52.50
 GRG 0.84 51 ePg 16 41.20 -0.1
 eSg 16 52.10
 OHR 0.88 321 iPg 16 42.20 0.2
 iSg 16 55.40
 KNT 1.26 54 ePb 16 48.70 0.2
 eSb 17 05.50
 S.D. = 0.3 on 5 of 5 obs.

? JUN 25, 1990 05h 45m 56.08 ± 6.62s
 36.505 N ± 4.3km 28.225 E ± 37.4km
 DEPTH = 33.0km (normol)
 DODECANESE ISLANDS (369)
 YER 0.63 4 iPn 46 09.00 0.4
 iSg 46 16.00
 CIN 1.10 354 ePg 46 15.00 -0.2
 iSg 46 27.00
 ELL 1.38 79 ePn 46 19.00 -0.3
 KHL 2.09 29 ePn 46 29.00 -0.5
 BCK 2.12 63 ePn 46 30.50 0.5
 S.D. = 0.6 on 5 of 5 obs.

JUN 25, 1990 06h 34m 51.49 ± 0.42s
 43.186 N ± 4.6km 0.113 E ± 3.8km
 DEPTH = 5.0km (geophysicist)
 FRANCE (538)
 ML 3.4 (LDG). Felt (III) at
 Bagneres de Bigorre ond (II) at
 Campon.

EPF 0.23 133 Pg 34 55.10 -1.0
 Sg 34 57.70
 JAU 0.38 248 Pg 34 59.15 -0.1
 Sg 35 05.44
 OGE 0.43 268 Pg 35 01.09 1.0
 Sg 35 09.16
 ESCF 0.51 258 Pg 35 01.99 0.2
 Sg 35 09.68
 LHE 0.60 243 Pg 35 02.86 -0.7
 Sg 35 10.62
 ATE 0.61 261 Pg 35 04.05 0.4
 Sg 35 12.65
 ISSF 0.68 257 Pg 35 04.96 -0.2
 Sg 35 15.06
 MADF 0.68 267 Pg 35 06.04 0.9
 Sg 35 16.59
 BOH 0.83 265 Pg 35 08.56 0.5
 LPD 1.69 27 Pn 35 21.40 -0.3
 Pg 35 25.10
 Sg 35 48.80
 LFF 1.81 14 Pg 35 28.10 4.6X
 Sg 35 52.60
 ETER 2.20 113 ePn 35 31.60 2.3
 eSn 36 00.00
 CAF 2.24 38 Pn 35 29.50 -0.3
 Pg 35 34.80
 Sg 36 04.60
 RJF 2.35 25 Pn 35 31.60 0.3
 Pg 35 37.40
 Sg 36 08.50
 EROQ 2.37 175 ePn 35 33.30 1.6
 eSn 36 02.00
 EBR 2.38 173 ePn 35 32.00 0.2
 eSg 36 02.00
 ETOR 2.86 215 ePn 35 37.00 -1.8
 eSn 36 13.50
 LSF 3.23 18 Pn 35 42.40 -1.4
 Pg 35 54.20
 Sg 36 35.30
 MFF 3.42 357 Pn 35 47.80 1.2
 Pg 35 58.50
 Sg 36 42.20
 TCF 3.44 25 Pn 35 47.00 0.1
 Pg 35 58.20
 Sn 36 27.00
 Sg 36 43.30
 MAF 3.50 29 Pn 35 46.90 -0.8
 Pg 35 59.40
 Sg 36 45.30
 ECHE 3.68 193 ePg 36 03.00 12.6X
 eSg 36 44.50

BGF 3.89 29 Pn 35 53.10 -0.1
 Pg 36 06.10
 Sg 36 57.20
 GUD 4.07 233 ePn 35 54.00 -1.9
 eSn 36 39.00
 S.D. = 1.1 on 22 of 24 obs.

& JUN 25, 1990 06h 43m 34.70s
 38.385 N 118.332 W
 DEPTH = 22.0km
 CALIFORNIA-NEVADA BORDER REGION (40)
 <BRK>. ML 3.7 (BRK). Felt (III)
 ot Mino, Nevada.

KVN 0.69 15 iPd 43 47.50 -0.6
 TNP 0.93 109 iPc 43 52.30 0.1
 CMB 1.65 258 iPc 44 03.10 0.3
 i 44 04.30
 iS 44 25.60
 FRI 1.77 219 ePd 44 05.40 1.1
 i 44 06.60
 iS 44 29.10
 LLA 2.73 230 ePc 44 22.60 4.5
 iS 44 57.60
 ORV 2.73 296 ePc 44 18.30 0.1
 ARN 2.74 249 eP 44 21.50 3.3
 MHC 2.82 249 eP 44 20.50 1.0
 eS 44 57.70
 iSg 45 02.30
 PRI 2.91 220 eP 44 25.70 4.9
 SAO 2.95 238 eP 44 25.40 4.1
 PHAM 3.03 214 eP 44 26.00 3.6
 BKS 3.12 262 ePc 44 29.30 5.6
 eS 45 12.30
 ZSP 3.12 263 ePc 44 30.00 6.3
 BRK 3.14 262 eP 44 27.10 3.2
 PRS 3.17 231 e(P) 44 30.30 5.9
 MIN 3.20 309 ePc 44 25.70 0.7
 GCC 3.21 246 e(P) 44 28.40 3.5
 LTCM 3.46 303 eP 44 30.00 1.5
 BCH 3.49 204 eP 44 29.70 0.7
 ABL 3.60 192 eP 44 34.50 3.8
 WDC 3.92 305 ePc 44 34.80 -0.2
 LBFM 4.03 318 eP 44 37.50 0.7
 PLM 5.16 166 eP 44 57.50 4.7
 GLA 6.04 151 e(P) 45 13.00 8.0
 24 obs. associated

JUN 25, 1990 06h 48m 49.87 ± 0.62s
 42.925 N ± 6.6km 18.354 E ± 5.9km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)
 ML 3.0 (TTG).

BRY 0.14 100 iPgd 48 53.60 0.3
 iSg 48 56.90
 NKY 0.49 103 ePg 48 59.00 -0.8
 eSg 49 07.00
 HCY 0.49 167 ePg 48 58.80 -1.0
 iSg 49 06.50
 TTG 0.83 126 ePg 49 04.70 -1.2
 eSg 49 18.50
 PLE 0.86 62 ePg 49 06.10 -0.5
 eSg 49 20.30
 IVA 1.14 92 ePg 49 11.00 -0.2
 eSg 49 28.20
 ULC 1.17 145 ePg 49 11.00 -0.7
 eSg 49 28.50
 PVY 1.24 105 ePg 49 12.60 -0.4
 eSg 49 32.00
 SDA 1.24 137 ePg 49 13.80 0.9
 HVAR 1.42 281 iPn 49 14.70 -1.0
 iSg 49 35.20
 PUK 1.44 127 ePn 49 17.30 1.3
 LACI 1.63 142 ePn 49 21.00 2.3
 TIR 1.94 144 ePn 49 28.50 5.4X
 SKO 2.47 112 ePn 49 21.50 -9.4X
 OHR 2.57 134 ePn 49 37.00 4.7X
 VBY 3.41 320 eP 50 00.20 16.1X
 eSn 50 47.90
 PTJ 3.43 331 eP 49 45.10 0.5
 TRI 4.31 312 eP 50 46.00 49.1X
 e 51 08.00
 VOY 4.45 316 ePn 49 59.30 0.3
 eSn 50 53.20
 S.D. = 1.1 on 14 of 19 obs.

JUN 25, 1990 07h 19m 05.11 ± 0.23s
 56.115 N ± 6.4km 164.572 E ± 3.8km
 DEPTH = 30.5km (16 depth phases)
 5.0mb (43 obs.) 4.9Msz (14 obs.)
 KOMANDORSKY ISLANDS REGION (4)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 28C
 Centroid Location:
 Origin Time 07:19: 6.9 0.4
 Lot 56.38N 0.07 Lon 164.45E 0.10
 Dep 28.4 7.3 Half-duration 1.6
 Moment Tensor: Scale 10**16 Nm
 Mrr=-0.34 0.29 Mtt=-6.16 0.42
 Mff= 6.50 0.34 Mrt=-0.66 0.92
 Mrf=-0.23 1.28 Mtf=-3.26 0.49
 Principal Axes:
 T Val= 7.29 Plg= 0 Azm=256
 N -0.27 84 166
 P -7.02 6 346
 Best Double Couple: Mo=7.2*10**16
 NP1: Strike= 31 Dip=86 Slip= -4
 NP2: 122 86 -176

ADK 11.80 103 P 21 51.50 -2.7
 ANM 16.95 48 eP 23 02.40 1.1
 KUSJ 18.22 233 eP 23 11.70 -5.4X
 ASAJ 18.39 238 eP 23 18.50 -0.7
 HOOJ 19.43 234 eP 23 27.10 -4.5X
 SDN 19.57 78 eP 23 35.30 2.3
 TTA 20.84 55 eP 23 46.60 0.2
 e 23 55.30 32km
 IMA 22.06 46 eP 23 58.60 -0.1
 1.3s 21.30nm 4.4mb
 OFUJ 22.82 231 P 24 06.00 0.5
 KDC 23.20 68 eP 24 09.00 0.0
 PMR 24.13 58 P 24 20.00 1.2
 1.0s 17.00nm 4.5mb
 Z 20s 2.30um 4.7Msz
 YAMJ 24.29 233 eP 24 24.40 3.8X
 FBA 24.46 50 eP 24 22.40 0.4
 MDJ 24.82 257 eP 24 22.50 -3.1X
 Z 12s 5.40um 5.3MszX
 N 16s 2.90um
 E 16s 2.40um
 NIJ 25.52 233 P 24 32.50 0.2
 KAKJ 25.88 230 P 24 35.90 0.3
 CHJJ 26.52 232 P 24 42.30 0.8
 MTMJ 26.60 234 eP 24 45.10 2.7
 CN2 27.62 260 eP 24 49.50 -2.0
 Z 14s 2.10um 4.9MszX
 N 14s 3.00um
 E 14s 1.00um
 pP 24 55.00 19kmX
 eS 29 34.00
 TSRJ 28.30 235 P 24 57.90 0.2
 INK 29.88 41 eP 25 10.50 -1.0
 SNY 29.96 259 eP 25 12.00 -0.5
 Z 14s 3.10um 5.1MszX
 E 13s 2.10um
 S 30 10.00
 MBC 33.22 25 eP 25 40.00 -0.7
 1.0s 11.00nm 4.7mb
 BJI 35.20 264 eP 25 56.50 -2.3
 0.8s 1000.00nm 6.8mb X
 Z 13s 4.10um 5.4MszX
 N 14s 1.46um
 E 14s 0.99um
 PP 27 20.00
 eS 31 28.00
 HHC 37.31 269 P 26 17.00 0.9
 Z 18s 2.40um 5.0Msz
 N 15s 2.60um
 E 16s 2.70um
 SS 34 28.00
 BTO 38.34 270 eP 26 24.00 -0.8
 N 16s 3.70um
 E 16s 3.00um
 pP 26 32.00 27km
 TIY 38.99 264 eP 26 30.90 0.7
 Z 14s 3.10um 5.3MszX
 YKA 39.18 47 eP 26 30.60 -0.7
 0.6s 1.40nm 3.9mb X
 NJ2 39.68 252 Pc 26 33.50 -2.3
 Z 16s 0.70um 4.6MszX
 WHN 43.28 255 eP 27 01.00 -4.3X
 pP 27 12.00 39km

25d 07h

XAN 43.61 264 eP 27 07.50 -0.6	Z 19s 0.90um 4.9Msz	FVI 0.8s 8.05nm 4.8mb
N 14s 2.40um	GLA 58.23 77 eP 29 09.00 10.3X	74.96 340 P 30 54.00 9.5X
E 14s 2.20um	GLD 58.26 65 P 29 05.00 6.0X	GRR 75.16 350 eP 30 54.00 9.1X
KBS 44.23 353 iP 27 13.50 1.0	Z 20s 1.40um 5.1Msz	1.0s 26.00nm 5.2mb
PNT 44.25 65 eP 27 13.00 -0.1	NUR 59.48 338 eP 29 06.00 -1.0	LPF 75.53 350 eP 30 56.30 8.5X
HON 44.42 126 P 27 16.00 1.4	LOE 60.63 257 eP 29 14.00 -1.3	1.0s 20.00nm 5.1mb
Z 20s 0.53um 4.5Msz	CHG 61.02 261 iPc 29 17.50 -0.5	LOR 75.73 347 eP 30 58.10 9.1X
GTA 44.86 277 iPc 27 17.20 -1.0	0.9s 32.77nm 5.5mb	1.4s 21.80nm 5.0mb
1.0s 100.00nm 5.7mb	GUN 61.12 278 P 29 17.80 -1.2	SSF 75.98 347 eP 30 58.80 8.4X
Z 14s 2.30um 5.3MszX	ANMO 61.27 69 P 29 20.00 0.2	1.4s 13.05nm 4.7mb
E 13s 1.80um	0.9s 3.15nm 4.4mb	LBF 75.99 346 eP 30 59.20 8.7X
EDM 44.90 58 eP 27 18.00 -0.3	ALO 61.28 69 eP 29 18.00 -1.8	1.4s 13.05nm 4.7mb
LZH 44.96 270 eP 27 19.50 0.4	1.0s 5.50nm 4.6mb	AVF 76.26 347 eP 31 01.10 9.1X
1.5s 110.00nm 5.5mb	Z 22s 0.37um 4.5Msz	1.0s 12.00nm 4.9mb
Z 15s 3.50um 5.4MszX	NBZ 61.31 346 P 29 18.00 -1.6	MDI 76.30 342 P 31 00.00 7.9X
N 14s 2.20um	0.9s 22.40nm 5.3mb	SAL 76.32 342 P 31 01.00 8.7X
E 14s 2.20um	PKI 61.65 278 P 29 21.40 -1.2	SMF 76.34 346 eP 31 01.60 9.2X
pP 27 28.00 28km	GKN 61.74 279 P 29 22.00 -1.0	1.0s 10.00nm 4.8mb
NEW 46.20 65 P 27 27.60 -1.0	DMN 61.79 278 P 29 23.20 -0.2	VAI 76.37 343 P 31 01.50 9.0X
0.9s 10.96nm 4.8mb	BDT 62.26 259 eP 29 20.50 -5.8X	MFF 76.85 349 eP 31 04.90 9.6X
DAG 47.36 1 iPd 27 35.90 -1.5	KKM 62.82 237 ePc 29 35.00 4.9X	1.0s 12.00nm 4.9mb
0.8s 7.46nm 4.8mb	NST 62.92 257 eP 29 31.00 0.3	LPL 77.04 344 eP 31 06.80 10.2X
SES 47.81 59 eP 27 41.00 -0.3	MEO 65.45 64 eP 29 46.30 -0.7	0.8s 10.75nm
pP 27 52.00 38km	NNT 65.68 256 eP 29 46.10 -2.5	LPG 77.05 344 eP 31 07.20 10.4X
WMO 48.42 290 P 27 46.00 -0.2	TUL 65.94 61 e(P) 29 44.50 -5.6X	1.4s 13.05nm
Z 18s 1.40um	0.7s 1.70nm 4.3mb	GBA 77.24 275 P 30 57.10 -0.7
N 17s 3.30um	FVM 66.85 56 P 29 53.80 -2.1	0.8s 23.40nm 5.3mb
E 17s 2.50um	0.8s 18.94nm 5.3mb	BOB 77.33 342 P 30 59.40 1.4
eS 34 46.00	UYO 67.99 61 e(P) 30 02.20 -1.0	SKO 77.42 333 eP 31 03.00 4.5X
WDC 48.52 76 ePc 27 47.40 0.5	RSNY 68.07 41 P 30 00.00 -3.5X	BNI 77.50 344 P 31 09.60 10.6X
epP 28 01.40 53kmX	Z 20s 1.58um 5.2Msz	RSM 77.59 340 P 31 02.10 2.8X
CD2 48.84 265 eP 27 48.30 -1.1	MAIO 68.25 303 eS 39 12.00 0.2	MME 77.66 341 P 31 02.20 2.1
FFC 49.06 50 eP 27 51.00 0.2	OLY 68.36 58 P 30 03.00 -2.4	SFI 77.71 340 P 31 02.00 2.0
1.2s 18.00nm 5.0mb	EKA 68.46 352 P 30 14.60 8.9X	VAY 77.74 332 eP 31 09.70 9.5X
MIN 49.20 76 eP 27 52.30 0.1	1.0s 21.60nm 5.2mb	PGD 77.78 340 P 31 02.70 2.1
epP 28 06.70 54kmX	QUE 69.50 294 eP 30 13.30 0.5	BDI 77.81 341 P 31 05.10 4.4X
LRM 50.20 65 eP 27 59.70 -0.3	KRA 70.19 337 eP 30 16.60 0.3	CKI 77.85 343 P 31 10.00 9.2X
GYA 50.66 259 P 28 05.40 1.8	0.8s 38.00nm 5.5mb	ARV 77.90 339 P 31 02.00 0.9
KEY 50.75 342 eP 28 05.00 1.5	Z 20s 1.30um 5.2Msz	CRE 77.97 340 P 31 11.00 9.4X
BGMT 50.82 65 eP 28 04.70 0.0	KSP 70.21 339 eP 30 26.30 31km	CAF 78.26 347 eP 31 12.90 9.8X
MHC 51.32 79 eP 28 08.80 0.4	e 30 16.50 0.0	1.2s 14.90nm 4.9mb
epP 28 23.60 56kmX	CLL 70.38 342 eP 30 25.30 28km	ASS 78.37 339 P 31 07.00 3.2X
CMB 51.51 77 e(P) 28 09.90 0.1	e 30 17.00 -0.5	LFF 78.40 348 eP 31 13.60 9.8X
epP 28 24.60 55kmX	1.1s 22.00nm 5.2mb	1.2s 23.80nm 5.1mb
BAG 51.73 238 eP 28 11.00 -0.8	BRG 70.63 341 eP 30 26.40 30km	LPO 78.60 348 eP 31 14.70 9.8X
KVN 52.01 75 P 28 14.30 0.5	i 30 18.30 -0.7	1.0s 16.00nm 5.0mb
FRI 52.63 78 eP 28 18.30 0.1	i 30 27.50 30km	DUI 79.36 338 P 31 09.00 -0.2
epP 28 32.50 53kmX	DCN 70.70 355 eP 30 25.00 -1.9	SDI 79.45 338 P 31 10.00 0.4
SOD 52.92 341 eP 28 18.00 -1.9	WTS 70.70 346 eP 30 28.00 8.6X	WB5 79.89 209 eP 31 13.00 0.9
TNP 53.19 75 P 28 22.20 -0.4	1.0s 26.00nm 5.3mb	WRA 79.96 209 P 31 15.40 2.9X
1.5s 46.97nm 5.2mb	DLE 70.72 354 eP 30 24.10 4.6X	1.1s 5.80nm 4.5mb
FRB 53.67 26 eP 28 25.00 -0.4	MOX 71.26 342 eP 30 23.00 0.1	BSS 80.12 337 P 31 18.00 4.9X
BW06 53.82 65 P 28 25.00 -2.2	i 30 32.00 29km	ORI 80.44 336 P 31 19.00 4.1X
1.5s 48.63nm 5.3mb	PRU 71.37 340 eP 30 24.00 0.5	MGR 80.57 336 P 31 18.20 2.6
KMI 53.88 262 eP 28 34.00 6.3X	Z 16s 0.80um 5.1MszX	TDS 80.85 336 P 31 22.00 4.9X
Z 20s 1.30um 5.0Msz	N 14s 0.50um	ADI 81.27 319 eP 31 22.00 2.6X
N 15s 1.30um	E 14s 0.80um	DSI 82.56 318 eP 31 31.00 4.9X
E 15s 0.80um	e 30 32.70 28km	ASPA 83.62 208 iPc 31 33.20 1.7
eS 36 02.00	ENN 72.02 346 eP 30 36.00 8.6X	1.3s 13.00nm 4.9mb
KMI 53.88 262 eP 28 30.00 2.3	0.9s 13.00nm 4.9mb	PRNI 83.80 318 eP 31 40.00 7.4X
Z 20s 1.30um 5.0Msz	GRF 72.25 342 eP 30 29.00 0.2	CMS 88.71 196 eP 32 07.00 10.7X
N 15s 1.30um	Z 21s 0.40um 4.7Msz	STK 89.81 199 eP 32 11.70 10.2X
E 15s 0.80um	e 30 38.40 30km	1.5s 13.00nm
eS 36 02.00	e 30 44.00	ZOBO 123.83 67 ePKP 38 10.00 7.9X
ISA 54.28 78 eP 28 46.00 15.6X	KHC 72.37 340 iP 30 30.60 1.0	Z 22s 0.21um 4.8Msz
CLC 54.65 77 eP 28 33.00 -0.1	Z 18s 0.80um 5.0Msz	LR 21 12.00
e 28 49.00 61kmX	BUD 72.82 336 eP 30 39.50 29km	SIV 127.12 60 (PKP) 38 11.00 3.2X
OIZ 54.94 251 eP 28 36.20 0.9	i 30 34.00 1.9	SPA 145.94 180 ePKP 38 43.50 2.5
N 15s 0.99um	DOU 72.86 347 P 30 41.10 8.8X	1.3s 55.00nm
E 13s 0.59um	SOP 73.16 338 eP 30 34.00 0.7	S.D. = 1.2 on 106 of 173 obs.
SBB 55.36 78 eP 28 40.00 1.7	CMF 73.40 331 ePc 30 42.00 6.4X	& JUN 25, 1990 07h 25m 41.25s
e 28 50.00 33km	HYB 73.53 277 eP 30 36.00 -0.7	41.083 N 110.364 W
GSC 55.46 77 eP 28 40.00 0.9	BZS 73.96 334 eP 30 39.00 0.2	DEPTH = 0.6km
PAS 55.57 79 eP 28 56.00 16.2X	CDF 74.13 344 eP 30 40.90 9.0X	WYOMING (460)
MWC 55.58 79 eP 28 47.00 6.9X	0.8s 8.05nm 4.8mb	<SLC-P>. ML 2.1 (SLC).
RSSD 55.60 61 P 28 33.70 -6.5X	SOTA 74.64 342 iPc 30 43.50 0.6	
TPC 56.77 77 eP 29 03.00 14.6X	1.9s 54.10nm 5.2mb	DAU 0.95 226 eP 25 59.20 -1.3
LSA 56.81 275 eP 28 49.00 -0.3	HAU 74.66 345 eP 30 51.80 8.9X	BW06 1.80 19 eP 26 12.30 -1.6
PLM 56.89 78 eP 29 03.00 13.5X	0.8s 10.75nm 4.9mb	2 obs. associated
SUF 57.17 339 eP 28 49.50 -1.3	FLN 74.75 350 eP 30 52.00 8.7X	? JUN 25, 1990 07h 39m 10.32 ± 0.87s
1.1s 14.90nm 4.9mb	BSF 74.77 345 eP 30 52.30 8.7X	41.153 N ± 19.1km 28.722 E ± 8.8km
PV09 57.18 69 P 28 51.30 -0.4	LDF 74.88 350 eP 30 52.90 8.8X	DEPTH = 10.0km (geophysicist)
BAR 57.50 79 eP 29 10.00 16.4X		TURKEY (366)
KSH 57.66 294 eP 28 55.50 0.8		
E 12s 2.00um		CTT 0.22 269 iPg 39 15.10 0.0
GOL 58.22 65 P 28 59.00 0.1		
1.5s 27.52nm 5.1mb		

ISK 0.27 109 iPg 39 16.10 0.1
 HRT 0.79 115 ePn 39 25.60 -0.1
 DMK 0.99 313 iPn 39 29.00 0.0
 IZI 1.00 145 Pn 39 39.10 9.8X
 S.D. = 0.1 on 4 of 5 obs.

? JUN 25, 1990 11h 21m 43.38± 4.12s
 14.077 S ±72.2km 75.631 W ±59.8km
 DEPTH = 33.0km (normal)
 NEAR COAST OF PERU (115)

PT02 1.37 325 iPc 22 05.80 -0.7
 PT08 2.29 337 iPc 22 19.50 -0.4
 PT10 2.38 327 i(P) 22 22.00 1.1
 NNA 2.39 330 iPd 22 25.00 3.9X
 ARE 4.65 121 eP 22 47.00 -6.4X
 ZOBO 7.57 108 P 23 35.70 0.9
 LPB 7.67 110 eP 23 36.00 0.0
 CNCB 7.86 111 P 23 38.00 -0.9
 CCH 9.71 111 (P) 23 31.00 -33.2X
 S.D. = 1.1 on 6 of 9 obs.

? JUN 25, 1990 12h 16m 03.36± 3.88s
 12.517 S ±38.3km 121.413 E ±19.6km
 DEPTH = 33.0km (normal)
 4.1mb (3 obs.)
 SOUTH OF TIMOR (293)

KNA 7.82 115 eP 17 58.80 1.0
 MBL 8.73 190 eP 18 10.00 -0.3
 0.3s 9.00nm 5.5mb X
 MTN 9.49 93 eP 18 21.00 0.2
 NANU 11.45 209 eP 18 47.20 -0.5
 0.3s 12.00nm 5.6mb X
 MEKA 14.28 191 eP 19 25.00 -0.3
 WB5 14.43 122 eP 19 25.90 -1.4
 WRA 14.44 122 Pd 19 26.20 -1.2
 0.6s 4.40nm 4.2mb
 ASPA 16.23 135 iPc 19 52.10 1.5
 0.5s 12.00nm 4.3mb
 MRWA 17.37 196 eP 20 06.00 1.1
 0.3s 3.00nm 3.9mb
 S.D. = 1.2 on 9 of 9 obs.

* JUN 25, 1990 13h 03m 33.14± 1.06s
 1.369 N ±13.3km 122.877 E ± 9.7km
 DEPTH = 58.4 ± 17.1 km
 4.6mb (1 obs.)
 MINAHASSA PENINSULA (265)

MNI 1.96 88 iPc 04 04.00 -0.6
 TSM 5.57 301 eP 04 56.00 0.5
 AAI 7.31 133 eP 05 21.00 1.2
 MKS 7.37 207 ePd 05 20.30 -0.3
 KKM 8.11 305 ePc 05 30.50 -0.4
 WB5 23.94 152 iPd 08 42.00 -1.0
 WRA 23.98 153 Pd 08 42.40 -1.0
 0.7s 14.00nm 4.6mb
 QIS 27.26 144 iPc 09 12.90 -1.2
 BWA 42.92 148 eP 11 29.80 1.9
 CAN 43.92 149 eP 11 36.70 0.7
 S.D. = 1.3 on 10 of 10 obs.

% JUN 25, 1990 13h 50m 19.67± 0.97s
 44.418 N ±10.4km 7.403 E ± 6.5km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 1.6 (GEN).

STV 0.18 198 P 50 23.83 0.0
 PZZ 0.23 292 P 50 24.75 0.0

ROB 0.36 110 P 50 28.95
 FIN 0.61 110 P 50 31.93 -0.1
 IMI 0.62 145 P 50 32.08 -0.1
 S.D. = 0.2 on 5 of 5 obs.

& JUN 25, 1990 13h 59m 34.29s
 32.330 N 115.310 W
 DEPTH = 4.9km
 CALIFORNIA-MEXICO BORDER REGION (45)
 <ECX>. MD 2.7 (ECX).

CPBX 0.09 3 iPc 59 37.40 1.1
 EMX 0.35 170 eP 59 41.20 0.0
 LMX 0.37 127 eP 59 42.00 0.3
 ECBX 0.88 165 eP 59 50.30 -1.4
 00 02.80
 4 obs. associated

? JUN 25, 1990 14h 02m 11.61± 3.62s
 31.031 S ±15.9km 68.096 W ±33.9km
 DEPTH = 33.0km (normal)
 SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.44 227 iPc 02 23.20 1.9
 CFA 0.59 192 iPc 02 24.00 0.5
 RTCB 0.75 233 iPd 02 26.00 0.1
 RTCV 0.91 204 ePc 02 26.80 -1.3
 RTBS 1.32 241 e(P) 02 32.60 -1.2
 (S) 02 50.70
 RTRS 1.46 306 iPc 02 35.90 0.1
 S.D. = 1.5 on 6 of 6 obs.

JUN 25, 1990 14h 34m 18.24± 0.39s
 50.226 N ± 9.0km 176.897 E ± 4.5km
 DEPTH = 33.0km (normal)
 4.6mb (10 obs.)
 RAT ISLANDS, ALEUTIAN ISLANDS (6)
 ML 4.9 (PMR).

SMY 3.06 326 eP 35 04.20 -1.1
 ADK 4.38 65 eP 35 23.20 -0.9
 SVW 18.79 44 eP 38 36.60 -0.3
 TTA 19.41 39 eP 38 43.50 -0.8
 IMA 21.88 33 eP 39 09.50 -0.2
 0.8s 6.20nm 4.1mb
 PMR 21.90 46 e(P) 39 07.80 -2.0
 INK 29.96 35 eP 40 25.50 0.3
 CN2 35.07 280 eP 41 08.80 -1.1
 MBC 35.69 22 eP 41 15.50 0.7
 0.9s 31.00nm 5.2mb
 YKA 37.99 45 eP 41 34.70 0.5
 0.7s 2.60nm 4.2mb
 PNT 39.90 66 eP 41 52.00 1.6
 0.6s 5.00nm 4.5mb
 EDM 41.75 58 iPd 42 06.30 0.8
 NEW 41.85 66 eP 42 05.50 -0.9
 WDC 42.52 79 eP 42 12.80 0.9
 MIN 43.24 79 eP 42 18.20 0.2
 ORV 43.76 80 eP 42 22.00 0.0
 BRK 44.26 82 eP 42 26.50 0.4
 SES 44.31 61 eP 42 26.00 -0.5
 PCC 44.40 83 eP 42 30.80 3.5X
 CMB 45.35 81 ePd 42 35.50 0.6
 SAO 45.44 83 e(P) 42 33.90 -1.7
 PRS 45.75 83 eP 42 38.40 0.3
 PRI 46.32 83 eP 42 37.20 -5.5X
 FRI 46.41 81 eP 42 43.50 0.3
 BTO 46.46 285 eP 42 44.20 0.5
 TIY 46.65 280 eP 42 45.50 0.3
 FFC 47.02 52 iPd 42 47.50 -0.3
 0.8s 11.00nm 4.9mb
 SBB 49.04 82 eP 43 04.00 0.1
 BW06 49.26 69 eP 43 05.00 -0.7
 GSC 49.30 81 eP 43 06.00 0.1
 GLA 52.00 82 eP 43 42.00 15.6X
 GTA 53.43 290 eP 43 35.80 -1.2
 FRB 55.41 29 eP 43 50.00 -1.0
 WMO 57.64 301 P 44 06.70 -0.7
 TUL 61.83 67 eP 44 35.50 -0.7
 1.0s 6.00nm 4.7mb
 NUR 67.37 346 iP 45 11.10 -0.6

0.8s 14.70nm 5.1mb
 NB2 68.49 353 P 45 18.50 -0.3
 0.9s 11.30nm 5.0mb
 GUN 69.71 289 P 45 26.80 -0.3
 PKI 70.24 289 P 45 29.80 -0.5
 GKN 70.39 290 P 45 31.00 0.0
 DMN 70.40 290 P 45 31.10 -0.1
 EKA 74.81 0 Pc 45 57.40 1.0
 0.8s 4.20nm 4.5mb
 SPC 78.96 345 eP 46 20.30 0.4
 PRU 79.03 349 eP 46 21.00 0.9
 WB5 79.26 220 eP 46 19.90 -1.7
 WRA 79.33 220 Pd 46 22.90 0.9
 0.5s 0.90nm 4.0mb
 KHC 79.99 349 eP 46 27.00 1.7
 ZST 80.43 346 eP 46 29.20 1.6
 e 55 09.80
 PTJ 82.84 347 eP 46 41.50 1.1
 BNI 84.72 353 P 46 52.50 2.5
 BDI 85.34 350 P 46 51.50 -1.5
 PGD 85.39 349 P 46 55.00 1.6
 MAW 143.92 216 iPKP 53 47.00 -3.3X
 S.D. = 1.0 on 49 of 53 obs.

? JUN 25, 1990 15h 22m 20.98± 2.17s
 32.136 S ±27.3km 68.976 W ±16.0km
 DEPTH = 100.0km (geophysicist)
 MENDOZA PROVINCE, ARGENTINA (139)

RTCY 0.46 54 iPc 22 44.70 -0.1
 RTBS 0.62 319 iPc 22 45.90 0.0
 (S) 22 57.20
 RTCB 0.66 13 iPc 22 46.50 0.1
 CFA 0.82 50 ePc 22 48.00 0.2
 eS 23 07.80
 RTLL 0.91 28 iPc 22 48.60 -0.2
 RTRS 2.00 348 ePc 23 02.10 0.0
 S.D. = 0.2 on 6 of 6 obs.

JUN 25, 1990 16h 14m 49.32± 0.46s
 42.530 N ± 4.7km 19.153 E ± 4.1km
 DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA (383)
 MD 2.7 (TTG). Felt (III) at
 Danilovgrad and Titograd.

TTG 0.13 142 iPgd 14 53.70 1.3
 iSg 14 57.50
 NKY 0.30 338 iPgc 14 56.50 0.8
 iSg 15 01.80
 BDV 0.34 224 ePg 14 57.30 0.9
 eSg 15 03.00
 HCY 0.49 261 ePg 14 59.50 0.2
 eSg 15 08.40
 SDA 0.57 153 ePg 15 00.40 -0.5
 BRY 0.58 310 ePg 15 01.30 0.1
 eSg 15 11.00
 PVY 0.61 84 ePg 15 01.20 -0.5
 eSg 15 11.20
 IVA 0.65 58 ePg 15 02.10 -0.2
 eSg 15 11.50
 PUK 0.73 131 iPgc 15 04.30 0.6
 LACI 0.98 155 ePg 15 08.00 0.0
 TIR 1.30 156 e(Pn) 15 14.60 1.3
 SKO 1.79 107 ePn 15 19.00 -1.4
 eSn 15 45.00
 OHR 1.88 139 ePn 15 24.80 3.0X
 HVAR 2.09 289 iPn 15 24.90 0.1
 iSn 15 51.30
 BRT 2.20 222 P 15 53.50 27.0X
 SGO 3.49 237 P 15 42.50 -2.2
 eSg 15 46.50
 MGR 3.61 230 P 15 45.80 -0.7
 eSg 15 53.30
 VOY 5.15 315 e(Pn) 16 08.80 0.4
 eSn 17 09.30
 S.D. = 1.0 on 16 of 18 obs.

& JUN 25, 1990 17h 15m 33.54s
 38.952 N 110.828 W
 DEPTH = 11.5km
 UTAH (478)
 <SLC-P>. CL 3.0 (SLC).

MSU 1.14 248 eP 15 54.80 -0.1
 DAU 1.50 347 eP 16 01.00 0.5
 ANMO 5.31 137 eP 16 53.00 -1.9

3 obs. associated				RTLL 2.13 326 iPc 03 35.00 -0.4				0.8s 18.75nm 4.7mb																																								
JUN 25, 1990 17h 28m 02.21± 0.76s				RTCB 2.17 318 iPd 03 36.00 -0.1				PNT 87.01 34 eP 18 09.00 -2.4																																								
20.378 S ± 7.3km 68.898 W ± 9.9km				RTBS 2.47 305 e(P) 03 40.20 0.1				NB2 139.03 353 PKP 24 38.00 -10.7X																																								
DEPTH = 136.6 ± 9.5 km				PEL 3.02 268 iPd 03 48.00 0.0				EKA 145.15 5 PKPc 24 57.10 -2.4																																								
4.8mb (5 obs.)				CHCH 3.09 254 eP 04 29.00 0.0				HRI 147.12 300 ePKP 25 04.50 1.0																																								
CHILE-BOLIVIA BORDER REGION (124)				RTRS 3.56 325 iPc 03 55.90 0.2				KRA 147.18 338 ePKP 25 03.60 0.7																																								
ANT 3.60 203 iP 28 56.50 -1.0	CNCB 3.65 14 iPd 28 59.20 0.3	LPB 3.90 11 iPd 29 02.00 0.0	1.0s 700.00nm	CCH 15.69 3 P 06 36.00 -6.3X	CNCB 16.25 357 P 07 02.00 12.2X	ZOBO 16.80 357 eP 07 02.00 5.3X	SIV 17.90 19 iP 07 09.90 0.0	S.D. = 0.4 on 9 of 12 obs.	PRNI 148.34 295 ePKP 25 08.00 2.6X	WTS 148.40 354 ePKP 25 06.50 1.8	PRU 148.91 344 PKPc 25 08.30 2.7X	1.0s 14.50nm	e 25 14.00	Sg 39 48.60	MOX 148.98 347 ePKP 25 09.00 3.3X	SRO 149.64 337 e(PKP) 25 10.40 3.6X	ENN 149.70 354 ePKP 25 10.00 3.3X	0.9s 11.00nm	e 25 17.50	ZST 149.74 339 ePKP 25 09.90 3.0X	MEM 149.85 354 PKP 25 10.40 3.5X	KHC 149.95 344 PKP 25 11.00 3.7X	1.0s 9.00nm	e 25 19.10	Sg 40 13.00	GRF 149.97 347 ePKPc 25 11.30 4.1X	Z 22s 0.40um 5.2msz	ec 25 18.70	DOU 150.48 356 PKP 25 12.30 4.4X	FLN 151.87 3 ePKP 25 13.40 3.4X	0.6s 4.50nm	LDF 152.05 2 ePKP 25 14.50 4.2X	0.6s 3.60nm	GRR 152.22 3 ePKP 25 14.60 4.1X	0.6s 4.50nm	LPF 152.57 4 ePKP 25 16.40 5.4X	0.8s 5.35nm	TCF 154.38 359 ePKP 25 36.30 22.7X	0.8s 2.70nm	LSF 154.43 360 ePKP 25 35.40 21.8X	0.8s 8.05nm	MAF 154.44 358 ePKP 25 37.00 23.3X	0.8s 6.05nm	S.D. = 1.4 on 22 of 42 obs.	JUN 25, 1990 19h 53m 39.53± 1.18s			
S.D. = 1.2 on 14 of 19 obs.				? JUN 25, 1990 18h 34m 59.31± 1.09s				3.458 S ± 3.8km 131.000 E ± 5.0km																																								
% JUN 25, 1990 17h 35m 02.98± 1.81s				1.454 S ± 17.1km 77.933 W ± 50.1km				DEPTH = 33.5 ± 11.2 km																																								
17.437 N ± 19.7km 94.606 W ± 13.6km				DEPTH = 193.0 ± 33.9 km				5.3mb (27 obs.) 4.9Msz (6 obs.)																																								
DEPTH = 121.6 ± 36.2 km				4.5mb (1 obs.)				WEST IRIAN REGION (196)																																								
CHIAPAS, MEXICO (61)				ECUADOR (107)				CENTROID, MOMENT TENSOR (HRV)																																								
EVV 1.24 325 iP 35 28.50 0.6	iS 35 47.00	SCX 2.01 110 iP 35 37.16 0.1	iS 36 03.00	TUNG 0.51 274 P 35 45.50 17.9X	VC1 0.94 330 P 35 27.80 -1.0	GETO 1.16 347 eP 35 30.30 -0.2	QUR 1.41 335 iPd 35 32.00 -0.4	GGP 1.43 332 iPd 35 32.60 -0.2	S 36 12.80	CAYA 1.52 358 P 35 34.20 0.7	COTA 1.82 347 P 35 37.50 1.1	NNA 10.52 174 iP 37 27.50 1.1	0.5s 10.56nm 4.5mb	eS 39 06.50	ZOBO 17.61 147 P 38 54.00 -0.8	LPB 17.84 148 (P) 38 57.00 -0.1	CNCB 18.13 148 P 38 59.50 -0.8	CCH 19.62 144 P 39 16.00 0.6	SIV 22.02 132 P 39 39.00 0.2	S.D. = 0.8 on 13 of 14 obs.	JUN 25, 1990 19h 53m 39.53± 1.18s																											
SCX 2.01 110 iP 35 37.16 0.1	iS 36 03.00	OXX 2.05 260 iP 35 37.52 -0.4	iS 36 03.36	TWM 0.55 284 iPd 40 08.10 -0.6	TWF1 0.71 22 ePc 40 10.50 -1.0	TWK 0.75 321 eP 40 12.30 0.2	TWQ 1.59 354 ePc 40 26.50 0.8	TWC 2.06 22 eP 40 33.20 0.7	ANP 2.53 11 eP 40 43.00 3.7X	S.D. = 1.1 on 6 of 7 obs.	22.689 N ± 35.3km 121.004 E ± 14.7km																																					
LVVM 2.88 323 iP 35 46.65 -1.7	iS 36 20.00	IIT 3.85 295 (P) 36 02.88 1.1	(S) 36 36.70	TWF1 0.71 22 ePc 40 10.50 -1.0	TWK 0.75 321 eP 40 12.30 0.2	TWQ 1.59 354 ePc 40 26.50 0.8	TWC 2.06 22 eP 40 33.20 0.7	ANP 2.53 11 eP 40 43.00 3.7X	S.D. = 1.1 on 6 of 7 obs.	DEPTH = 10.0km (geophysicist)																																						
PPM 4.15 294 iP 36 06.50 0.5	(S) 36 39.45	III 4.72 282 iP 36 12.00 -1.5	(S) 36 53.50	TWK 0.75 321 eP 40 12.30 0.2	TWQ 1.59 354 ePc 40 26.50 0.8	TWC 2.06 22 eP 40 33.20 0.7	ANP 2.53 11 eP 40 43.00 3.7X	S.D. = 1.1 on 6 of 7 obs.	TAIWAN REGION (243)																																							
IIJ 5.37 296 iP 36 23.80 1.2	S.D. = 1.5 on 8 of 8 obs.	? JUN 25, 1990 17h 51m 46.46± 3.84s				20.611 S ± 27.5km 178.507 W ± 22.4km																																										
S.D. = 0.6 on 4 of 4 obs.				TURKEY (366)				FIJI ISLANDS REGION (181)																																								
ISK 0.29 229 iPg 51 52.70 0.2	HRT 0.50 150 iPg 51 56.80 0.3	YLV 0.69 178 ePg 51 59.70 -0.4	CTT 0.70 262 iPg 52 00.20 -0.1	iSg 52 09.70	VUN 3.86 312 iPc 07 44.60 0.0	DZM 14.10 261 iPc 09 25.20 1.6	BRS 27.05 250 iPd 11 24.50 0.6	RMQ 30.52 253 eP 11 54.50 0.7	0.6s 43.00nm 5.3mb	CMS 33.69 244 iPc 12 21.40 1.0	0.6s 14.00nm 4.8mb	QLP 34.57 253 iPd 12 28.40 0.5	STK 37.32 244 eP 12 50.20 -0.2	0.8s 10.00nm 4.5mb	ASPA 44.03 257 ePb 13 43.90 -0.4	0.6s 89.00nm 5.5mb	e 19 35.60	WB5 44.10 262 iPd 13 43.50 -1.3	WRA 44.11 262 Pc 13 44.30 -0.7	0.3s 10.90nm 4.9mb	MTN 48.69 271 iPd 14 18.50 -1.4	FORR 48.78 247 iPd 14 19.50 -0.9	0.4s 35.00nm 5.2mb	MBL 57.27 258 eP 15 19.30 -1.8	NANU 60.91 255 eP 15 38.00 -7.3X	e 15 44.00	SPA 69.52 180 iPc 16 37.80 -0.7	AAI 2.81 265 ePd 54 25.60 2.5	MTN 9.33 179 iPc 55 52.60 -2.2	KUPT 9.90 227 ePc 56 19.50 16.8X	MKS 11.63 261 ePd 56 29.00 2.7X	DAV 11.79 333 eP 56 17.10 -11.4X	KNA 12.41 190 eP 56 32.40 -4.4X	eS 58 47.00	BKB2 14.26 278 iPc 57 10.00 8.8X	TSM 15.00 300 eP 57 12.50 1.6	WB5 16.65 169 eP 57 25.30 -6.8X	i 57 28.90										
* JUN 25, 1990 18h 02m 59.68± 1.80s				33.112 S ± 12.1km 67.092 W ± 13.5km				DEPTH = 13.2 ± 4.2 km																																								
MENDOZA PROVINCE, ARGENTINA (139)				RTC 1.75 315 e(P) 03 29.50 -0.4				CFA 1.79 327 ePd 03 31.00 0.5				i 03 38.30				eS 03 53.10																																

	eS	00	27.50			1.0s	44.20nm	5.3mb	KSH	66.10	316	P	04	27.20	1.3					
WRA	16.71	169	Pd	57	26.90	-5.9X	37.93	323	P	00	56.00	0.1	04	48.00	-0.2					
	1.0s	22.50nm			4.3mb	X	E	16s	1.40um				05	31.00	2.5X					
KDB	17.13	111	eP	57	38.00	-0.1		S	06	47.00			05	23.70	-8.9X					
KKM	17.52	303	ePd	57	43.70	0.6	CHG	38.54	306	iPc	01	02.00	1.0	07	28.00					
	0.9s	125.20nm			5.0mb			1.0s	40.50nm	eS	07	20.00	5.2mb	15	28.00					
TRT	18.75	256	ePc	57	56.10	-2.1	TSRJ	39.07	6	P	01	04.10	-1.1	06	21.40	0.9				
QIS	18.95	154	eP	57	57.50	-3.1X	KMI	39.49	318	Pc	01	09.00	-0.1	1.0s	16.50nm	5.2mb				
			iS	57	59.80		Z	20s	2.30um				5.0msz	07	01.00	4.0X				
MBL	20.68	211	iPd	58	17.30	-2.1	N	13s	0.80um				07	00.50	-0.2					
	0.6s	109.00nm			5.4mb		E	13s	0.70um	S	07	12.00		07	12.50	-0.5				
RAB	21.14	93	iPd	58	25.70	1.6	MTMJ	40.34	8	P	01	13.90	-1.9	0.9s	8.00nm	5.2mb				
		iS	02	20.00			NIIJ	41.17	10	eP	01	23.90	1.4	BUL	100.41	249	iPd	07	22.20	-3.3X
GUMO	21.82	39	eP	58	29.70	-1.2	TIA	41.54	343	eP	01	24.40	-1.2	BCAO	112.64	273	ePKPc	12	15.50	0.1
	1.2s	366.67nm			5.7mb		Z	24s	1.10um				4.6msz	1.0s	5.00nm					
PJG	21.82	39	eP	58	29.80	-1.2	N	16s	0.80um					ALO	118.38	52	ePKP	12	26.00	0.0
CTA	22.24	139	iPc	58	35.20	0.1	E	16s	0.90um					Z	19s	0.94um			5.4msz	
	1.0s	92.00nm			5.2mb			S	07	34.00				LKO	136.48	280	PKP	13	03.48	2.5X
BAG	22.27	333	eP	58	34.00	-1.6	YAMJ	42.26	11	eP	01	30.80	-0.6	NNA	148.35	119	ePKP	13	25.40	3.8X
		eS	02	34.00			XAN	42.71	333	eP	01	34.50	-0.8	0.9s	15.13nm					
NANU	24.20	217	iPd	58	53.40	-0.8	N	16s	1.20um					ARE	150.24	132	iPKPd	13	32.90	8.2X
	0.4s	28.00nm			5.2mb		CD2	42.93	325	eP	01	36.40	-0.7	CNCB	152.48	138	PKPc	13	31.00	2.6X
MEKA	25.94	206	iPd	59	09.70	-1.0	Z	13s	1.50um				5.1msz	LPB	152.60	137	ePKP	13	29.00	0.6
	0.4s	24.00nm			5.1mb		DL2	43.03	349	eP	01	40.00	2.3	e	13	37.00				
QLP	26.26	152	iPc	59	14.80	1.2	Z	24s	1.40um				4.8msz	ZOBO	152.77	137	PKP	13	32.00	3.2X
FORR	27.38	185	iPd	59	23.10	-0.7	OFUJ	43.46	12	eP	01	46.40	5.3X	i	13	39.40				
	0.3s	23.00nm			5.3mb		TIJ	44.44	339	Pd	01	48.80	-0.5	i	13	40.60				
KGM	28.20	281	eP	59	33.00	1.6	N	19s	1.70um					SIV	157.28	149	iPKP	13	35.90	1.7
RMO	28.53	145	eP	59	34.00	-0.3	E	20s	2.40um					BAO	161.00	183	ePKP	13	40.50	2.1
COOL	28.82	198	eP	59	35.20	-1.7		S	08	19.00				S.D.	= 1.1	on	82	of	104	obs.
	0.7s	27.00nm			5.1mb		BJI	45.38	344	eP	01	56.00	-0.6							
MRWA	29.31	208	eP	59	40.30	-1.0	Z	21s	18.00nm				4.9mb							
HNR	29.36	103	eP	59	41.00	-0.9		PP	03	39.00										
STK	29.98	162	iPc	59	47.00	-0.2		eS	08	32.00										
	0.9s	32.00nm			5.1mb			eSS	11	46.00										
KLM	30.05	282	eP	59	37.00	-11.1X	SNY	45.57	352	Pc	01	57.40	-0.7							
BAL	30.19	205	eP	59	48.00	-1.2	Z	28s	2.40um				5.0msz							
KLB	30.64	203	iPc	59	51.90	-1.2	N	28s	2.50um											
	0.8s	95.00nm			5.6mb		E	22s	2.10um											
QZH	30.70	338	eP	59	53.00	-0.6		S	08	38.00										
Z	24s	2.70um			4.8msz		LZH	46.82	330	Pc	02	07.50	-0.8							
E	28s	3.70um					Z	2.0s	130.00nm				5.6mb							
PPI	30.73	275	ePc	59	54.00	0.0	Z	25s	1.50um				4.9msz							
IPM	30.99	285	ePc	59	57.00	0.6	N	14s	0.80um											
	1.0s	83.10nm			5.5mb		E	14s	0.70um											
CMS	31.18	155	eP	59	58.00	0.2		sP	02	26.50										
	0.8s	27.00nm			5.1mb		S	08	56.00											
GZH	31.51	328	eP	00	01.00	0.2	CN2	47.31	355	eP	02	11.70	-0.1							
Z	28s	3.40um			4.9msz			1.0s	10.00nm				4.8mb							
N	14s	1.10um					Z	22s	1.70um				5.0msz							
		S	05	04.00			N	13s	0.60um											
MUN	31.59	204	eP	00	00.20	-1.3	E	13s	0.90um											
SNG	32.11	289	eP	00	06.50	0.3		eS	09	00.00										
		eS	05	36.20			HHC	47.54	340	P	02	14.00	0.1							
ADE	32.16	168	iPc	00	07.30	0.9	Z	30s	3.00um				5.1msz							
	0.9s	141.18nm			5.9mb		N	21s	1.20um											
PSI	32.64	280	ePc	00	11.00	0.2	E	20s	2.10um											
	1.1s	101.40nm			5.6mb			S	09	06.00										
RKG	33.13	202	eP	00	19.00	4.2X	BTO	47.87	338	eP	02	17.00	0.6							
TSI	33.14	282	ePc	00	16.00	0.8	N	14s	0.70um											
BWA	34.81	154	iPc	00	31.90	2.5	E	14s	0.70um											
NNT	34.91	298	eP	00	26.20	-4.3X		eS	09	10.00										
BFD	35.19	164	eP	00	32.00	-0.6	MDJ	47.87	359	eP	02	16.20	0.0							
SSE	35.61	345	P	00	35.00	-1.2	N	10s	0.90um											
Z	20s	0.90um			4.5msz			S	09	15.00										
N	14s	0.70um					LSA	50.41	314	eP	02	37.50	0.9							
E	18s	1.90um					GTA	51.41	329	P	02	43.40	-0.2							
		pP	00	42.00	24kmX		Z	24s	2.10um				5.1msz							
		sP	00	52.50			N	15s	0.60um											
		S	06	08.00				S	10	00.00										
		PcS	06	48.00			GUN	53.46	309	P	02	58.80	-0.6							
		SS	08	32.00			0.8s	73.00nm					5.7mb							
CAN	35.82	154	iPc	00	39.30	1.3	PKI	53.67	308	P	03	00.00	-0.9							
NST	35.97	303	eP	00	40.50	1.1	DMN	53.92	308	P	03	02.00	-0.7							
CNB	35.98	154	eP	00	40.00	0.6	0.8s	55.00nm					5.6mb							
TOO	36.46	160	eP	00	45.00	1.7	GKN	54.47	308	P	03	05.80	-0.8							
	0.8s	71.00nm			5.6mb		HYB	55.73	294	ePc	03	14.50	-1.3							
WHN	37.37	336	eP	00	51.50	0.6	GBA	55.78	289	Pd	03	12.80	-3.2X							
Z	20s	1.20um			4.7msz		1.0s	23.00nm												

25d 21h

* JUN 25, 1990 21h 04m 47.76± 1.18s
7.070 S ±10.2km 129.737 E ±17.1km
DEPTH = 160.5 ± 14.5 km
4.9mb (8 obs.)

BANDA SEA (280)

AAI	3.69	335	ePd	05	46.20	1.2
MTN	5.90	167	eP	06	15.00	0.9
KNA	8.68	186	eP	06	50.00	-1.2
			eS	08	20.00	
WB5	13.50	161	eP	07	52.20	-1.9
			eS	11	14.10	
WRA	13.56	161	Pd	07	53.00	-1.8
	0.9s	40.90nm			4.8mb	
QIS	16.47	145	eP	08	31.50	0.4
			eS	11	26.50	
TRT	16.97	267	ePd	08	35.50	-1.7
ASPA	16.98	167	iPd	08	38.70	1.4
	0.7s	75.00nm			5.2mb	
			eS	11	38.90	
CTA	20.59	131	iP	09	23.00	7.1X
	0.7s	15.75nm			4.6mb	
NANU	20.61	220	iPd	09	17.20	1.2
	0.4s	17.00nm			4.8mb	
FORR	23.71	184	eP	09	48.00	1.8
	0.4s	26.00nm			5.1mb	
MRWA	25.56	209	eP	10	04.40	0.9
PSI	32.25	286	ePc	11	04.60	1.4
CHG	39.79	311	eP	12	06.80	0.0
GUN	54.80	311	P	14	02.80	-1.1
	0.4s	10.00nm			5.0mb	
PKI	54.97	311	P	14	04.60	-0.5
	0.4s	5.00nm			4.7mb	
DMN	55.22	311	P	14	06.60	-0.2
GKN	55.78	311	P	14	09.60	-1.1
	0.4s	13.00nm			5.2mb	
CNCB	150.50	144	iPKPc	24	27.40	9.6X
ZOBO	150.84	143	PKP	24	22.00	3.7X

S.D. = 1.4 on 17 of 20 obs.

? JUN 25, 1990 21h 21m 23.42± 3.25s
40.663 N ± 8.3km 29.772 E ±26.3km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

HRT	0.18	334	iPg	21	27.40	0.0
			eSg	21	30.60	
YLV	0.32	253	iPg	21	30.00	-0.1
			iSg	21	36.50	
IZI	0.40	215	iPg	21	31.60	0.0
			iSg	21	38.60	
CTT	1.13	296	ePn	21	44.60	0.1

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

& JUN 25, 1990 21h 26m 38.60s
40.323 N 124.512 W
DEPTH = 21.0km
NEAR COAST OF NORTHERN CALIF. (35)
<BRK>. ML 3.3 (BRK).

WDC	1.53	80	iPc	27	02.90	-1.9
			eS	27	23.20	
LTCM	1.83	93	eP	27	07.60	-1.6
MIN	2.22	88	iPd	27	12.90	-2.2
LBFM	2.24	62	eP	27	14.10	-1.2
ORV	2.44	107	eP	27	15.80	-2.2
			e	27	42.60	
			iS	27	44.70	
PCC	3.27	149	eP	27	26.20	-3.6
ARN	3.77	141	eP	27	34.20	-2.7
GCC	3.83	148	eP	27	33.90	-3.8
SAO	4.29	145	eP	27	39.70	-4.5
KVN	5.11	102	eP	27	53.30	-2.7

10 obs. associated

* JUN 25, 1990 21h 41m 08.81± 2.74s
14.933 S ±17.3km 177.394 W ±14.4km
DEPTH = 429.0 ± 28.0 km
4.4mb (7 obs.)

FIJI ISLANDS REGION (181)

DZM	16.88	243	iPc	44	42.30	0.8
WB5	46.17	257	eP	48	55.00	0.0
WRA	46.20	257	Pc	48	56.00	0.8
	0.5s	4.30nm			4.1mb	
ASPA	46.60	251	eP	48	57.80	-0.5
	0.4s	78.00nm			5.4mb	

FORR	52.17	242	eP	49	38.00	-1.9
PRI	73.81	45	ePd	52	00.00	0.2
CMB	75.02	43	ePd	52	06.20	-0.3
WDC	75.05	40	eP	52	06.70	0.1
ORV	75.13	41	ePd	52	06.80	-0.2
SPA	75.16	180	iPd	52	06.40	-0.6
	1.1s	20.24nm			4.7mb	
KVN	77.07	43	iP	52	18.00	0.0
TNP	77.17	45	iP	52	11.85	-6.7X
PNT	81.74	34	eP	52	42.00	-0.1
	0.7s	10.00nm			4.6mb	
NEW	82.54	36	iP	52	46.00	-0.3
	0.9s	6.14nm			4.3mb	
PV09	82.98	47	iP	52	49.50	0.5
ANMO	83.49	51	iP	52	52.50	1.0
	1.0s	6.25nm			4.3mb	
LRM	84.07	40	eP	52	54.30	0.1
BW06	84.54	43	iP	52	56.00	-0.6
	1.0s	7.00nm			4.4mb	
MAW	86.97	199	iP	53	08.50	0.8
SES	87.05	36	eP	53	08.00	-0.3
RSSD	88.75	44	iP	53	16.50	-0.2
97.25	12	eP	53	54.00	-0.6	
	0.4s	1.00nm			4.4mb	
CLL	142.76	349	ePKP	59	52.00	-1.4
PRU	143.71	347	PKP	59	54.10	-1.0
ENN	144.16	356	ePKP	59	55.00	-0.8
	0.7s	11.00nm				
MEM	144.31	356	PKP	59	55.70	-0.3
SNF	144.49	358	PKPd	59	56.30	-0.1
GRF	144.63	350	iPKPd	59	57.60	0.9
	1.0s	36.00nm				
SRO	144.73	342	iPKP	59	58.90	2.0
KHC	144.73	347	iPKPd	59	57.60	0.7
	1.0s	14.00nm				
ZST	144.74	343	ePKP	59	57.60	0.7
DOU	144.89	358	PKPc	59	57.80	0.7
ADI	145.36	307	iPKPd	00	01.80	3.3X
DSI	145.81	305	iPKPd	00	03.00	3.8X
FLN	146.17	4	iPKPd	00	01.20	2.0X
	0.6s	10.80nm				
LDF	146.36	3	iPKPd	00	01.70	2.1X
	0.8s	8.05nm				
CDF	146.40	354	iPKPd	00	02.40	2.6X
	0.8s	12.10nm				
GRR	146.52	4	iPKPd	00	02.50	2.7X
	0.8s	18.80nm				
LPF	146.86	4	iPKPd	00	03.70	3.4X
	0.8s	32.25nm				
HAU	146.88	355	ePKP	00	03.60	3.2X
	0.8s	5.35nm				
BSF	147.01	355	ePKP	00	03.80	3.0X
	0.6s	3.60nm				
SQTA	147.02	349	iPKPd	00	04.10	3.3X
	0.5s	3.60nm				
		i	00	11.60		
FVI	147.31	347	PKP	00	04.00	2.9X
LOR	147.74	358	iPKPd	00	05.90	4.0X
	1.0s	14.00nm				
SSF	147.96	359	iPKPd	00	06.60	4.4X
	0.8s	10.05nm				
LBF	148.03	358	iPKPd	00	06.70	4.4X
	0.8s	9.40nm				
AVF	148.23	359	iPKPd	00	06.80	4.2X
	0.8s	9.40nm				
MFF	148.34	4	iPKPd	00	07.20	4.4X
	0.8s	8.05nm				
SMF	148.37	358	ePKP	00	07.40	4.5X
	1.0s	9.00nm				
BGF	148.47	360	iPKPd	00	07.70	4.7X
	0.9s	14.75nm				
VAI	148.73	352	PKP	00	08.20	4.8X
TCF	148.74	1	iPKPd	00	08.20	4.7X
	0.8s	6.05nm				
LSF	148.77	1	iPKPd	00	08.00	4.5X
	0.8s	10.75nm				
MAF	148.81	0	iPKPd	00	08.90	5.4X
	0.8s	7.40nm				
ORO	149.07	353	PKP	00	06.00	1.9X
LPL	149.32	354	iPKPd	00	10.80	6.2X
	0.8s	6.05nm				
LPG	149.33	354	iPKPd	00	11.10	6.4X
	0.8s	6.70nm				
BOB	149.70	350	PKP	00	11.00	6.0X
RJF	149.71	2	ePKP	00	10.60	5.7X
	0.8s	5.35nm				
BNI	149.78	354	PKP	00	12.10	6.9X

LFF	150.05	3	iPKPd	00	11.60	6.2X
	0.8s	6.70nm				
SFI	150.05	347	PKP	00	12.50	7.1X
CAF	150.10	1	iPKPd	00	12.00	6.4X
	0.6s	4.95nm				
PGD	150.12	347	PKP	00	12.00	6.2X
ARV	150.19	345	PKP	00	12.00	6.3X
FIR	150.32	347	ePKP	00	10.00	4.2X
LPO	150.32	2	iPKPd	00	12.30	6.4X
	0.6s	5.40nm				
SBF	150.87	353	ePKP	00	13.30	6.5X
	0.7s	6.60nm				
FRF	151.26	354	ePKP	00	14.30	7.0X
	0.9s	6.55nm				
LRG	151.39	354	ePKP	00	14.70	7.2X
	0.8s	5.35nm				
DUI	151.46	341	PKP	00	12.00	4.3X
LMR	151.50	354	ePKP	00	14.90	7.3X
SDI	151.61	342	PKP	00	14.50	6.6X
PGF	151.94	350	ePKP	00	15.90	7.4X
	0.8s	10.75nm				
SGO	152.17	339	PKP	00	11.00	2.4X

S.D. = 0.8 on 31 of 75 obs.

& JUN 25, 1990 22h 06m 59.65s
41.901 N 112.406 W
DEPTH = 5.7km

UTAH (478)
<SLC-P>. ML 3.4 (SLC). Felt in the epicentral area.

PTI	0.97	2	eP	07	18.00	-0.6
HPI	1.88	345	eP	07	32.50	-0.4
BW06	2.29	67	eP	07	40.00	1.2
MCMT	2.94	354	ePn	07	50.80	2.7
BGMT	3.34	4	ePn	07	57.50	3.8
LRM	3.92	360	ePn	08	07.40	5.4
HRY	4.83	5	ePn	08	18.60	3.9

7 obs. associated

* JUN 25, 1990 22h 46m 28.66± 2.39s
4.452 N ±12.6km 127.396 E ±18.7km
DEPTH = 135.7 ± 21.9 km
5.0mb (4 obs.)

TALAUD ISLANDS (263)

MNI	3.93	221	ePc	47	28.70	0.3
			eS	48	16.00	
MTN	17.58	168	eP	50	25.50	-1.3
OIZ	22.44	312	eP	51	18.00	1.0
WB5	25.13	164	eP	51	43.10	0.3
WRA	25.19	164	Pd	51	43.60	0.3
	0.5s	38.20nm			5.2mb	
ASPA	28.66	167	eP	52	15.30	0.5
	0.4s	10.00nm			4.9mb	
CHG	31.23	300	eP	52	37.50	-0.1
XAN	34.08	332	P	52	56.00	-6.1X
CD2	34.47	322	eP	53	05.00	-0.5
FORR	35.11	179	iPc	53	11.10	0.3
	0.4s	42.00nm			5.6mb	
BJI	36.85	346	eP	53	25.50	0.2
BRS	40.03	144	iPd	53	52.00	0.0
GTA	42.83	328	P	54	15.30	0.4
GUN	45.85	305	P	54	39.60	0.1
	0.4s	23.00nm			5.2mb	
PKI	46.10	305	P	54	40.40	-1.1
DMN	46.37	304	P	54	43.80	0.3
GKN	46.90	305	P	54	46.80	-0.8
	0.4s	8.00nm		</		

OIS	1.0s	48.00nm	5.0mb						
STK	27.91	261 eP	09 40.50	-0.6					
	28.07	237 iPc	09 42.70	0.3					
	0.6s	21.00nm		4.9mb					
		e	10 27.10						
WB5	32.86	262 iPd	10 22.90	-1.4					
		e	15 21.30						
WRA	32.88	262 Pd	10 23.10	-1.4					
	0.7s	27.70nm		5.0mb					
ASPA	33.21	255 iPd	10 26.60	-0.8					
	0.4s	513.00nm		6.5mb X					
		eS	15 27.10						
MTN	37.05	273 iPc	10 59.50	-0.3					
FORR	38.99	244 eP	11 15.20	-0.4					
MBL	46.32	258 iPd	12 14.30	-0.5					
	0.3s	26.00nm		5.0mb					
NANU	50.15	256 eP	12 43.70	-0.4					
KDC	82.62	20 P	16 07.30	-0.5					
	0.9s	25.00nm		4.9mb					
GCC	85.28	48 ePc	16 21.70	0.1					
PRS	85.41	49 ePc	16 22.70	0.4					
BRK	85.49	48 eP	16 22.50	-0.1					
SAO	85.55	49 eP	16 23.00	0.0					
MHC	85.68	48 eP	16 24.20	0.5					
ARN	85.76	48 P	16 24.20	0.2					
BCH	85.83	51 P	16 24.50	0.0					
PRI	85.83	50 ePc	16 25.00	0.5					
TTA	85.91	15 P	16 23.30	-0.9					
	0.8s	12.07nm		4.8mb					
ABL	86.32	51 P	16 25.90	-1.1					
WDC	86.56	45 ePc	16 28.00	0.2					
ORV	86.79	46 ePc	16 29.00	0.1					
PAS	86.80	52 eP	16 29.00	-0.1					
CMB	86.88	48 ePc	16 29.50	0.1					
MWC	86.92	52 eP	16 30.00	0.1					
MIN	87.08	46 eP	16 30.00	-0.5					
ISA	87.22	51 eP	16 32.00	0.9					
SBB	87.29	52 eP	16 32.00	0.5					
BAR	87.33	54 eP	16 32.00	0.3					
RVR	87.33	53 eP	16 32.00	0.4					
LBFM	87.36	45 P	16 31.80	-0.1					
PLM	87.46	54 eP	16 33.00	0.5					
CLC	87.93	51 eP	16 34.00	-0.5					
GSC	88.30	52 eP	16 36.00	-0.4					
TPC	88.38	53 eP	16 36.00	-0.7					
GLA	88.90	55 eP	16 40.00	0.8					
KVN	88.93	48 P	16 38.50	-0.9					
IMA	89.09	14 P	16 38.30	-1.1					
	0.7s	2.91nm		4.3mb					
TNP	89.15	49 P	16 40.00	-0.4					
	1.0s	13.33nm		4.8mb					
FBA	89.65	17 P	16 40.00	-1.9					
	0.9s	16.67nm		5.0mb					
PNT	92.41	38 eP	16 55.00	0.1					
MBC	103.80	14 ePdiff	17 45.00	-0.7X					
	0.7s	1.00nm		4.7mb					
NB2	135.00	345 PKP	23 01.70	-0.5X					
	0.6s	0.90nm							
KHC	143.92	333 iPKPd	23 17.00	-1.6					
	1.0s	7.00nm							
SKO	144.18	317 iPKP	23 18.50	-0.8					
GRF	144.47	335 ePKPc	23 18.30	-1.2					
	1.2s	24.00nm							
Z	20s	0.10um		4.6msz					
OHR	145.03	316 ePKP	23 20.50	-0.3					
DCN	145.40	356 iPKPd	23 20.60	-0.3					
	0.8s	80.00nm							
DLE	145.41	356 ePKP	23 21.20	0.3					
MEM	145.54	341 PKPc	23 22.40	1.2					
FVI	146.16	330 PKP	23 23.00	0.6					
SQTA	146.40	333 iPKPc	23 24.00	1.0					
	0.5s	7.20nm							
		i	23 26.20						
		i	24 28.50						
DOU	146.42	342 PKPc	23 23.80	1.1					
CDF	147.01	338 ePKP	23 25.60	1.7					
	0.8s	10.75nm							
BSF	147.67	338 ePKP	23 27.00	2.0					
	0.8s	5.35nm							
HAU	147.68	338 ePKP	23 27.30	2.4X					
	0.6s	6.30nm							
BCAO	148.01	247 iPKPd	23 30.10	3.7X					
	0.5s	5.00nm							
		id	24 33.00						
ARV	148.28	326 PKP	23 29.50	3.6X					
VAI	148.51	333 PKP	23 28.90	2.8X					
SFI	148.55	328 PKP	23 30.70	4.4X					

PGD	148.65	328 PKP	23 29.00	2.3X					
TDS	148.69	317 PKP	23 31.00	4.3X					
CRE	148.71	327 PKP	23 29.00	2.3X					
ASS	148.72	326 PKP	23 27.00	0.3X					
SGO	148.82	320 PKP	23 30.50	3.7X					
FLN	148.95	347 ePKP	23 30.10	3.3X					
	0.8s	13.45nm							
BSS	148.98	320 PKP	23 30.00	2.9X					
SDI	148.99	323 PKP	23 30.50	3.3X					
LDF	149.03	346 ePKP	23 30.40	3.5X					
	0.8s	8.05nm							
ORO	149.04	334 PKP	23 31.00	3.8X					
BDI	149.07	329 PKP	23 29.50	2.3X					
BOB	149.07	331 PKP	23 31.50	4.3X					
LOR	149.16	340 ePKP	23 30.90	3.7X					
	0.6s	9.90nm							
Pil	149.35	329 PKP	23 30.80	2.5X					
LBF	149.37	340 ePKP	23 31.80	4.2X					
	0.9s	6.55nm							
GRR	149.39	347 ePKP	23 31.60	4.1X					
	0.8s	13.45nm							
SSF	149.45	341 ePKP	23 31.90	4.3X					
	0.8s	14.10nm							
RDP	149.58	324 PKP	23 32.00	4.0X					
LPL	149.63	335 ePKP	23 33.00	4.8X					
	0.7s	5.50nm							
LPG	149.64	335 ePKP	23 33.10	4.8X					
	0.8s	9.40nm							
SMF	149.71	340 ePKP	23 32.30	4.3X					
	0.8s	5.35nm							
SOI	149.73	315 PKP	23 33.00	4.7X					
AVF	149.74	341 ePKP	23 31.90	3.9X					
	0.8s	3.35nm							
LPF	149.77	347 ePKP	23 32.60	4.6X					
	0.8s	18.80nm							
BNI	150.04	335 PKP	23 33.80	5.1X					
BGF	150.11	341 ePKP	23 33.30	4.7X					
	0.6s	6.30nm							
MAF	150.50	341 ePKP	23 34.40	5.2X					
	0.6s	2.70nm							
TCF	150.55	341 ePKP	23 34.30	5.0X					
	0.7s	5.50nm							
SBF	150.68	332 ePKP	23 34.30	4.7X					
	0.8s	8.05nm							
MNO	150.71	316 PKP	23 39.00	8.9X					
LSF	150.78	342 ePKP	23 34.50	4.9X					
	0.6s	6.30nm							
MFF	150.90	345 ePKP	23 35.10	5.3X					
	0.6s	5.40nm							
PGF	150.97	329 ePKP	23 35.40	5.2X					
	0.6s	17.15nm							
FRF	151.26	333 ePKP	23 35.80	5.4X					
	0.6s	3.60nm							
LRG	151.47	333 ePKP	23 36.40	5.7X					
	0.8s	5.35nm							
LMR	151.51	333 ePKP	23 36.30	5.5X					
	0.7s	4.40nm							
LFF	152.20	342 ePKP	23 38.20	6.5X					
	0.6s	3.60nm							
LPO	152.30	341 ePKP	23 38.30	6.4X					
	0.6s	3.60nm							

S.D. = 0.9 on 60 of 105 obs.
 JUN 26, 1990 00h 53m 55.17 ± 1.61s
 3.390 S ± 7.9km 100.799 E ± 7.1km
 DEPTH = 57.6 ± 12.5 km
 5.4mb (20 obs.) 4.7msz (6 obs.)
 SOUTHERN SUMATERA (274)

OIZ	23.99	21 P	59 06.90	1.3					
		N 13s	1.30um						
		E 13s	1.40um						
		pP	59 15.00	29kmX					
BAG	27.74	44 eP	59 40.00	-0.7					
GYA	30.21	10 P	00 02.80	0.1					
		E 16s	2.10um						
OZH	33.04	31 eP	00 25.00	-2.3					
		Z 18s	1.20um	4.6msz					
PKI	34.17	335 P	00 37.60	0.1					
		0.7s	33.00nm	5.4mb					
CD2	34.22	5 eP	00 36.50	-1.1					
		Z 16s	1.00um	4.6mszX					
		N 12s	1.30um						
		eS	06 02.00						
GUN	34.28	336 P	00 39.20	0.8					
DMN	34.33	335 P	00 39.00	0.2					
		0.9s	79.00nm	5.6mb					
GKN	34.88	335 P	00 43.00	-0.3					
WHN	36.14	20 eP	00 54.00	0.2					
		Z 16s	1.19um	4.8mszX					
		N 14s	2.31um						
		E 14s	1.00um						
WB5	36.61	119 eP	00 57.20	-0.8					
WRA	36.61	119 Pc	00 56.90	-1.1					
		1.1s	23.70nm	5.0mb					
ASPA	37.80	125 iPc	01 07.80	-0.1					
		1.0s	25.00nm	5.1mb					
		Z 21s	1.19um	4.7msz					
		i	01 11.60						

26d 04h				JUN 26, 1990 04h 59m 01.48±0.30s 28.542 N ± 7.3km 59.065 E ± 3.9km DEPTH = 33.0km (normal) 4.9mb (25 obs.) 4.8Msz (6 obs.) SOUTHERN IRAN (353) Felt at Bam.				ASS 39.82 304 P 06 33.00 -0.4 KHC 40.22 314 eP 06 35.50 -1.1 e 06 57.90 SUF 40.34 337 iP 06 38.70 1.4 0.7s 0.40nm 3.3mb X BHG 40.37 311 eP 06 43.50 5.7X 0.8s 24.00nm 5.0mb CRE 40.40 305 P 06 38.00 -0.1 BRG 40.44 316 eP 06 48.80 10.5X SFI 40.50 305 P 06 41.00 2.2 PGD 40.59 305 P 06 41.20 1.4 CLL 41.13 317 e(P) 06 37.00 -6.9X e 06 57.00 e 07 19.00 SOTA 41.39 310 i(P) 06 46.80 0.5 0.6s 8.95nm 4.7mb i 06 53.50 i 07 07.00 i 07 15.40 BDI 41.41 305 P 06 44.50 -1.9 GRF 41.85 314 e(P) 06 54.00 4.2X GYA 42.06 81 P 06 53.60 1.6 BOB 42.30 306 P 06 57.00 3.3X XAN 42.62 70 P 06 53.00 -3.4X N 12s 1.00um E 12s 1.00um BTO 43.10 60 eP 07 01.50 1.1 N 16s 0.90um E 16s 1.10um SOD 43.48 342 iP 07 04.20 1.3 SBF 43.68 305 eP 07 03.40 -1.5 0.6s 11.70nm 4.8mb HFS 43.87 329 eP 07 05.50 -0.7 0.6s 4.40nm 4.4mb Z 19s 0.62um 4.5Msz e 07 07.30 e 07 09.50 e 07 12.10 LR 25 26.00 LPG 44.26 307 eP 07 08.50 -1.4 0.7s 4.40nm 4.4mb LPL 44.27 307 eP 07 08.30 -1.7 BNI 44.29 306 P 07 09.00 -0.9 TIY 45.10 64 eP 07 16.30 -0.2 Z 24s 1.10um 4.7Msz X N 17s 1.50um BCAO 45.31 246 iPd 07 18.40 0.1 NB2 45.37 330 P 07 17.70 -0.5 1.1s 7.40nm 4.5mb LBF 46.28 309 eP 07 24.20 -1.4 SMF 46.35 309 eP 07 24.80 -1.4 0.8s 7.70nm 4.7mb LOR 46.37 309 eP 07 24.70 -1.7 SSF 46.60 309 eP 07 26.80 -1.3 0.7s 5.50nm 4.6mb OIZ 47.13 90 eP 07 32.30 -0.4 N 17s 1.30um CAF 47.55 306 eP 07 34.40 -1.3 0.7s 4.40nm 4.6mb WHN 47.73 73 eP 07 36.00 -1.2 N 14s 0.80um BJI 47.83 60 eP 07 40.00 2.1 1.5s 29.00nm 5.1mb Z 18s 1.17um 4.9Msz N 14s 0.86um eS 14 30.00 RJF 47.94 307 eP 07 37.80 -0.9 LFF 48.49 306 eP 07 42.00 -1.0 0.7s 7.70nm 4.8mb TIA 49.00 65 eP 07 44.90 -2.1 NJ2 51.17 70 Pc 08 04.80 1.2 SNY 53.22 57 eP 08 16.90 -1.9 SSE 53.33 71 eP 08 18.50 -1.3 0.9s 35.00nm 5.3mb Z 20s 0.60um 4.6Msz N 15s 0.90um KRI 53.35 216 iPc 08 02.10 -18.0X CN2 54.33 55 eP 08 28.40 1.4 Z 24s 1.40um 4.9Msz X N 13s 0.50um E 13s 0.40um pP 08 38.00 31kmX CIR 55.96 211 iPd 08 41.00 2.0 BUL 56.64 215 iPd 08 36.30 -7.8X DAG 59.65 345 iPd 09 02.40 -1.9 0.7s 13.70nm 5.2mb SLR 61.54 212 eP 09 18.00 0.1																																																																																																																																																																																																																																																																																																																																			
VAM	4.49 246 ePn	49 21.50	-0.3	QUE	7.07 75 eP	00 44.70	-0.9	MAIO	7.74 3 iPc	00 56.00	1.2	DHR	8.24 256 iPc	00 59.50	-2.1	TEH	9.68 320 eP	01 50.00	28.3X	RYD	11.77 254 ePc	01 43.50	-6.7X	QASM	14.02 264 eP	02 14.70	-5.3X	AFIF	14.91 256 ePc	02 31.10	-0.6	UOSK	15.12 263 eP	02 30.10	-4.3X	POO	16.81 123 eP	02 54.50	-1.5	KSH	17.72 48 P	03 08.00	0.6	DHJN	17.94 236 eP	03 05.00	-5.4X	SRAT	17.94 236 eP	03 04.30	-6.1X	KMTA	18.09 239 ePc	03 08.00	-4.1X	ABHA	18.12 239 eP	03 09.30	-3.3X	WAJH	20.12 269 ePc	03 36.00	0.6	AYN	20.23 276 eP	03 37.30	0.8	BHL	20.71 291 P	03 42.00	0.4	S	11 12.00			HYB	21.05 118 eP	03 42.00	-3.1X	eS	07 28.00			BADA	21.14 276 eP	03 45.90	0.0	GKN	22.52 85 P	03 59.20	-0.7	GBA	22.64 127 Pd	03 59.80	-1.1	1.2s 21.60nm				4.5mb				LFK	22.66 294 eP	04 03.50	2.4	DMN	22.99 86 P	04 04.20	-0.4	PKI	23.26 86 P	04 06.20	-1.1	GUN	23.62 85 P	04 10.40	-0.5	AKSR	23.87 264 eP	04 14.50	1.6	AGRW	24.06 264 eP	04 17.00	2.3	AGAL	24.11 264 iPd	04 17.90	2.7X	AKRL	24.14 264 eP	04 17.80	2.3	HLW	24.22 280 eP	04 18.00	1.8	eS	08 40.00			AGMR	24.32 264 eP	04 21.00	3.7X	ELL	25.81 296 eP	04 33.00	1.6	ALT	26.15 301 eP	04 34.00	-0.5	WMQ	27.51 49 eP	04 47.00	0.1	Z 18s 2.20um				4.8Msz				N 11s 0.60um				E 11s 0.90um				LSA	28.01 80 P	04 47.50	-4.5X	MLR	31.11 312 Pd	05 25.00	5.8X	1.5s 31.80nm				4.9mb				SKO	33.25 304 eP	05 38.00	0.3	GTA	35.22 61 eP	05 53.60	-1.3	Z 16s 2.00um				5.0Msz X				E 11s 0.80um				KRA	36.55 317 eP	06 05.00	-0.8	e	06 13.70			e	06 34.80			SOI	36.90 296 P	06 08.00	-0.9	MGR	37.40 300 P	06 13.70	0.6	SGO	37.62 300 P	06 15.50	0.6	CHG	37.64 96 eP	06 17.00	1.7	BSS	38.02 301 P	06 12.00	-6.3X	LZH	38.32 67 P	06 23.50	2.4	1.6s 100.00nm				5.4mb				Z 21s 1.30um				4.7Msz				N 11s 0.60um				E 13s 1.00um				eS	12 18.00			DUI	38.36 302 P	06 21.00	-0.3	CD2	38.69 75 eP	06 23.50	-0.6	Z 14s 0.70um				4.6Msz X				N 12s 0.90um				SDI	38.84 302 P	06 18.50	-6.8X	KMI	38.96 85 Pd	06 25.00	-0.7	2.0s 220.00nm				5.6mb				KSP	39.01 317 eP	06 27.50	1.0	e	06 48.00			NUR	39.45 334 iP	06 32.40	2.5	0.7s 16.00nm				4.9mb			

S.D. = 1.0 on 72 of 88 obs.

LKO	63.27	266 P	09 27.06	-2.5
	1.0s	39.00nm		5.5mb
KIC	64.00	263 P	09 33.00	-1.4
SEK	64.06	211 iPd	09 33.00	-1.6
	0.9s	27.73nm		5.4mb
		i	09 37.00	
TIC	64.11	263 P	09 33.80	-1.3
LIC	64.32	263 P	09 35.00	-1.4
Z	20s	0.77um		4.9Msz
BLF	65.38	212 iPc	09 45.00	1.9
MAT	65.47	60 eP	09 44.00	0.5
	1.1s	21.52nm		5.2mb
MBC	75.46	360 eP	10 41.50	-1.9
	0.7s	6.00nm		4.7mb
FRB	79.23	339 eP	11 07.00	2.5
INK	82.99	5 eP	11 26.00	1.8
WB5	87.17	114 eP	11 47.00	1.2
WRA	87.18	114 Pc	11 47.70	1.8
	0.9s	5.90nm		4.8mb
ASPA	88.78	118 eP	11 55.50	2.0
YKA	89.14	357 eP	11 53.70	-0.9
	0.8s	3.20nm		4.7mb
LPB	130.11	272 ePd	14 41.00	-18.8X
	S.D. = 1.4 on 87 of 111 obs.			

JUN 26, 1990 07h 14m 20.35±0.22s
 4.552 N ± 4.0km 95.238 E ± 3.7km
 DEPTH = 59.8km (8 depth phases)
 5.0mb (40 obs.)
 NORTHERN SUMATERA (706)

BSI	0.94	3 ePc	14 40.00	2.3
		e(S)	14 50.00	
TSI	3.48	107 eP	15 14.00	0.8
PSI	4.12	117 ePd	15 22.80	0.6
IPM	5.77	90 ePc	15 47.90	2.5
		eS	16 47.40	
SNG	5.95	64 eP	15 48.90	0.9
KLM	6.55	102 eP	15 57.00	0.7
PPI	7.16	134 ePd	16 03.50	-1.4
	0.7s	474.90nm		6.3mb X
KGM	8.45	107 iPd	16 22.90	0.2
NNT	9.14	29 eP	16 27.20	-4.9X
NST	12.05	23 eP	17 14.00	2.4
BDT	13.14	16 eP	17 29.50	3.5X
LOE	14.27	26 eP	17 45.00	4.2X
GBA	19.73	298 Pd	18 48.30	0.3
	1.0s	32.10nm		4.6mb
QIZ	20.26	44 P	18 53.60	0.1
N	14s	0.70um		
		PP	19 14.50	
		eS	22 32.00	
HYB	20.75	309 iPd	18 59.50	0.9
	1.0s	80.00nm		5.0mb
KKM	20.94	85 ePc	19 01.80	1.2
TRT	21.20	125 iPc	19 02.60	-0.5
	0.6s	60.90nm		5.1mb
KMI	21.69	19 Pc	19 09.00	0.8
Z	14s	0.80um		4.3MszX
		pP	19 22.50	58km
		PP	19 33.00	
GYA	24.37	25 P	19 34.60	0.3
	1.2s	100.00nm		5.2mb
		pP	19 53.00	82kmX
PKI	24.73	339 P	19 36.00	-2.0
	0.6s	28.00nm		4.9mb
DMN	24.88	338 P	19 37.80	-1.5
	0.6s	37.00nm		5.1mb
GUN	24.88	340 P	19 37.60	-1.8
LSA	25.31	352 P	19 44.20	0.6
GKN	25.41	338 P	19 43.40	-0.8
CD2	27.42	16 iPc	20 01.00	-1.5
OZH	30.24	46 Pd	20 28.00	0.2
WHN	31.51	33 eP	20 39.20	0.3
	1.0s	30.00nm		5.0mb
LZH	32.37	13 Pc	20 43.60	-2.9
	1.5s	42.00nm		5.0mb
Z	20s	0.40um		4.1Msz
NANU	33.46	144 iPd	20 55.60	-0.4
GTA	34.95	6 Pc	21 06.90	-1.8
	1.0s	37.00nm		5.3mb
MBL	35.14	138 iPd	21 09.70	-0.7
NJ2	35.19	36 Pc	21 10.40	-0.3
SSE	35.96	40 P	21 17.00	-0.2
	1.0s	23.00nm		5.1mb
TIY	36.55	23 Pc	21 21.80	-0.5
Z	18s	0.70um		4.5Msz

N	16s	0.50um		
QUE	36.92	317 eP	21 26.50	1.0
TIA	37.39	30 P	21 28.60	-0.6
BTO	38.27	18 eP	21 35.50	-1.2
N	13s	0.30um		
E	13s	0.30um		
MEKA	38.32	145 eP	21 37.50	0.4
HHC	39.00	20 P	21 43.20	0.4
	1.4s	150.00nm		5.7mb
MRWA	39.05	151 eP	21 43.90	0.7
WMO	39.67	351 iPd	21 48.50	0.2
BJI	40.06	25 eP	21 52.50	1.1
	1.0s	160.00nm		5.8mb
DL2	41.75	31 P	22 05.20	0.0
	1.0s	200.00nm		5.8mb
KLB	41.86	151 eP	22 06.20	-0.1
COOL	43.06	147 eP	22 16.10	0.0
SNY	44.92	30 Pc	22 30.00	-0.9
	0.7s	100.00nm		5.7mb
WB5	45.48	124 iPd	22 35.20	-0.5
WRA	45.49	124 Pc	22 36.00	0.2
	0.7s	101.00nm		5.8mb
ASPA	46.98	128 iPd	22 47.20	-0.4
	0.4s	79.00nm		6.0mb
FORR	47.16	140 eP	22 48.40	-0.4
	0.5s	36.00nm		5.6mb
CN2	47.30	30 iPc	22 49.00	-0.8
	0.8s	100.00nm		5.8mb
TSRJ	48.58	45 P	22 59.90	0.1
IIDJ	49.93	46 P	23 08.80	-1.5
MDJ	49.99	32 Pc	23 10.50	0.0
OIS	50.19	121 iPb	23 11.90	-0.5
	0.3s	16.00nm		5.5mb
MTMJ	50.38	45 P	23 15.90	2.2
MAT	50.64	45 (P)	23 15.00	-0.6
CHJJ	50.97	46 P	23 17.00	-1.1
NIJJ	51.53	45 P	23 21.20	-1.2
YAMJ	52.70	44 P	23 30.60	-0.5
OFUJ	54.25	44 P	23 41.60	-0.9
CTA	55.77	118 iPc	23 53.30	-0.5
	0.8s	19.78nm		5.2mb
STK	57.05	133 eP	24 02.10	-0.7
	1.1s	7.00nm		4.6mb
BRS	63.92	123 iPc	24 49.20	-0.4
CIR	67.34	245 eP	25 12.00	0.3
		iPp	25 29.60	65km
BUL	69.84	247 iPd	25 23.00	-4.3X
VRI	71.85	317 iPc	25 40.00	1.1
MLR	72.30	316 ePd	25 42.00	0.3
	1.4s	87.30nm		5.5mb
BCAO	76.43	273 iPc	26 06.00	0.0
	0.5s	13.00nm		5.1mb
		ic	26 20.30	50km
SUF	76.47	334 iP	26 03.90	-1.3
	0.9s	0.70nm		3.6mb X
NUR	76.56	331 eP	26 05.00	-0.7
SPC	76.77	319 eP	26 07.20	-0.2
KRA	77.09	320 eP	26 09.20	0.3
		e	26 25.70	59km
SOD	77.68	338 iP	26 11.90	0.1
ZST	78.71	318 iP	26 17.70	-0.1
		i	26 34.80	62km
SGO	79.40	310 P	26 40.00	18.3X
KSP	79.50	321 eP	26 22.00	-0.1
		e	26 39.00	61km
VBY	79.75	315 e(P)	26 24.20	0.7
LJU	80.29	316 eP	26 44.00	17.6X
CEY	80.34	315 e(P)	26 44.80	18.1X
PRU	80.55	320 eP	26 28.00	0.3
		e	26 45.00	61km
VOY	80.73	316 e(P)	26 28.70	-0.2
BRG	80.99	321 eP	26 30.40	0.4
	0.9s	12.00nm		4.8mb
		i	26 47.80	63km
KHC	81.12	319 eP	26 32.00	1.3
ARV	81.30	313 P	26 32.00	0.2
FVI	81.53	316 P	26 29.00	-3.8X
CLL	81.61	321 eP	26 34.00	0.8
HFS	81.86	330 eP	26 34.00	-0.3
	0.5s	10.50nm		5.1mb
Z	19s	0.08um		4.1Msz
		e	26 39.50	17kmX
		e	26 50.80	
		ePP	29 40.10	
		LR	02 50.00	
CRE	82.02	313 P	26 33.00	-2.6
SFI	82.10	314 P	26 36.50	0.7

PGD	82.19	314 P	26 38.00	1.4
SOTA	82.62	317 iP	26 38.80	0.1
	0.6s	12.50nm		5.1mb
		i	26 51.70	43kmX
		i	26 55.80	
NB2	83.14	331 P	26 40.70	-0.3
	0.9s	6.00nm		4.6mb
MDI	83.64	315 P	26 44.00	0.2
PGF	84.18	312 eP	26 48.70	2.0
	0.8s	5.35nm		4.6mb
SBF	85.29	314 eP	26 54.20	2.0
	0.8s	8.05nm		4.9mb
LPG	85.72	315 eP	26 55.20	0.6
	0.8s	4.05nm		4.6mb
BNI	85.79	315 P	26 57.50	2.7X
HAU	85.91	318 eP	26 55.00	-0.1
	0.8s	5.35nm		4.7mb
LBF	87.57	317 eP	27 03.50	0.3
	0.8s	4.05nm		4.7mb
LOR	87.63	317 eP	27 03.60	0.1
	0.7s	4.40nm		4.8mb
SMF	87.68	316 eP	27 04.10	0.3
	0.9s	4.90nm		4.7mb
AVF	88.01	317 eP	27 05.40	0.1
	0.8s	4.05nm		4.7mb
MAF	88.60	316 eP	27 08.70	0.5
	0.6s	1.80nm		4.5mb
LDF	90.16	319 eP	27 16.10	0.7
	1.0s	8.00nm		5.0mb
FLN	90.38	319 eP	27 16.20	-0.2
	0.8s	5.35nm		4.9mb
DAG	90.96	348 iPd	27 17.60	-1.0
	0.7s	4.79nm		5.0mb
EKA	91.06	326 Pc	27 20.00	0.6
	0.8s	4.50nm		4.9mb
IMA	94.26	22 eP	27 34.40	0.2
MBC	96.88	8 eP	27 45.50	-0.3
SIV	154.10	242 PKP	34 15.40	8.0X
		i	34 30.00	
CNCB	159.52	232 ePKP	34 19.00	4.2X
		i	34 55.00	
ZOBO	159.94	233 PKP	34 20.00	4.7X
	S.D. = 1.0 on 101 of 113 obs.			

? JUN 26, 1990 07h 42m 50.88±6.28s
 38.608 N ± 49.7km 22.473 E ± 24.7km
 DEPTH = 33.0km (normal)
 GREECE (364)
 ML 2.4 (THE).

AGG	0.43	345 ePg	43 00.40	-0.1
		eSg	43 05.40	
LIT	1.49	1 ePb	43 15.40	-0.2
		eSb	43 32.00	
IGT	1.90	300 ePb	43 21.60	0.0
SOH	2.31	17 ePn	43 27.60	0.1
FNA	2.33	339 ePn	43 28.00	0.2
GRG	2.35	359 ePn	43 27.90	0.0
	S.D. = 0.2 on 6 of 6 obs.			
JUN 26, 1990 07h 54m 17.77±0.59s				
45.801 N ± 4.7km 26.808 E ± 5.8km				
DEPTH = 113.6 ± 8.9 km				
3.6mb (1 obs.)				
ROMANIA (358)				
VRI	0.09	320 iPc	54 31.50	-1.4
MLR	0.68	243 iPc	54 35.00	-1.8
PPE	0.70	53 iPd	54 38.00	1.3
CLI	0.82	24 iPc	54 39.00	1.2
CFR	1.13	123 iPd	54 41.00	0.1
PTT	1.17	346 iPd	54 41.50	0.1
CMP	1.35	247 ePd	54 45.00	1.5
IAS	1.49	20 iPd	54 44.00	-1.0
TLB	1.49	144 iPd	54 45.00	0.0
BUC1	1.56	201 iPc	55 04.00	18.2X
TNR	1.78	266 ePd	54 45.00	-3.7X
PSN	2.33	155 iPd	54 56.00	0.3
DEV	2.73	273 iP	55 01.50	0.5
PVL	2.79	203 iPd	55 03.00	1.3
BZS	3.64	269 eP	55 12.50	-0.7
PGB	3.76	211 eP	55 15.00	0.0
DMK	4.04	170 iPn	55 18.50	-0.1
VTS	4.12	220 iP	55 20.00	0.1
KDZ	4.27	194 iPc	55 22.00	0.2
CTT	4.80	165 iPn	55 28.20	-0.8
ALN	4.93	187 eP	55 30.50	-0.3

26d 07h

ISK 5.01 160 ePn 55 31.80 -0.1
 HRT 5.40 156 iPn 55 37.00 -0.2
 VAY 5.43 216 eP 56 03.00 25.3X
 HFS 16.34 336 eP 58 01.20 -0.2
 0.4s 1.50nm 3.6mb
 Z 10s 0.05um 4.2MsZ
 S.D. = 0.9 on 22 of 25 obs.

* JUN 26, 1990 09h 18m 08.23±0.85s
 43.976 N ±10.6km 87.107 E ±9.9km
 DEPTH = 33.0km (normal)
 4.4mb (6 obs.)

NORTHERN XINJIANG, CHINA (332)

WMO 0.45 110 iPg 18 18.70 0.5
 Sg 18 26.20
 GTA 10.54 111 eP 20 38.60 -1.5
 LZH 15.03 116 Pc 21 40.00 0.0
 2.0s 29.00nm 4.2mb
 GKN 16.06 188 P 21 54.40 1.0
 0.5s 15.00nm 4.4mb
 DMN 16.41 186 P 21 57.00 -0.9
 0.6s 22.00nm 4.5mb
 PKI 16.43 185 P 21 54.20 -4.0X
 0.7s 55.00nm 4.8mb
 TIY 20.11 99 eP 22 43.20 1.2
 WHN 25.36 113 eP 23 38.50 4.8X
 HFS 45.40 318 eP 26 24.70 -0.3
 0.4s 0.90nm 4.0mb
 Z 12s 0.05um 3.7MsZ
 e 26 30.30
 MBC 58.86 7 eP 28 05.50 0.1
 pP 28 15.50 33kmX
 YKA 72.46 10 eP 29 42.90 10.1X
 0.9s 1.60nm
 WB5 76.87 135 eP 30 07.60 9.0X
 WRA 76.91 135 Pd 30 08.70 9.9X
 0.6s 3.20nm 4.5mb
 S.D. = 1.1 on 8 of 13 obs.

JUN 26, 1990 09h 24m 10.45±0.67s
 37.357 N ±17.5km 48.831 E ±10.2km
 DEPTH = 10.0km (geophysicist)
 4.4mb (12 obs.) 3.5MsZ (1 obs.)

NORTHWESTERN IRAN (345)

TAB 2.11 290 eP 24 46.00 -0.4
 e 24 49.00
 TEH 2.62 127 eP 24 55.00 1.4
 KER 3.31 206 eP 25 09.00 5.5X
 MA10 8.62 94 iPnd 26 17.00 -1.2
 0.8s 11.71nm 5.2mb
 eSn 27 54.00
 MLR 18.95 303 ePc 28 37.50 3.5X
 1.0s 18.70nm 4.3mb
 VAY 20.66 289 eP 28 54.40 1.6
 SPC 23.79 309 eP 29 25.00 0.9
 KRA 24.27 311 eP 29 31.90 3.4X
 e 29 36.40
 ZST 25.51 305 eP 29 44.60 4.2X
 KSP 26.73 311 eP 29 52.50 0.8
 NUR 27.78 334 eP 30 05.00 3.9X
 KHC 27.99 306 eP 30 06.50 3.2X
 CLL 28.85 310 eP 30 12.00 1.1
 1.0s 9.00nm 4.5mb
 SUF 28.95 338 eP 30 16.00 4.3X
 PGF 30.77 292 eP 30 27.90 -0.3
 0.6s 4.50nm 4.5mb
 SBF 31.84 295 eP 30 37.20 -0.3
 0.6s 9.00nm 4.9mb
 HFS 31.87 327 eP 30 37.50 -0.1
 1.0s 8.60nm 4.6mb
 Z 18s 0.09um 3.5MsZ
 e 30 40.10
 e 30 42.20
 e 30 43.60
 e 30 45.80
 LR 37 26.00
 BNI 32.34 297 P 30 44.80 2.8
 SOD 32.58 344 eP 30 43.00 -0.7
 NB2 33.38 327 P 30 54.40 3.6X
 0.8s 2.90nm 4.3mb
 AVF 34.63 300 eP 30 59.10 -2.5
 0.7s 2.75nm 4.3mb
 MAF 35.18 299 eP 31 05.80 -0.7
 0.9s 6.55nm 4.5mb
 LDF 36.94 304 eP 31 20.30 -0.9

MFF 37.04 300 eP 31 21.60 -0.5
 FLN 37.18 304 eP 31 22.30 -0.9
 EKA 39.08 314 Pc 31 29.80 0.7
 0.7s 3.00nm 4.1mb
 KMI 47.11 89 eP 32 50.00 5.2X
 KIC 57.54 251 (P) 34 01.00 -1.6
 MBC 66.42 357 eP 35 02.00 0.7
 0.5s 2.00nm 4.6mb
 YKA 79.60 352 eP 36 25.00 6.2X
 1.1s 2.00nm 4.0mb
 S.D. = 1.3 on 20 of 30 obs.

? JUN 26, 1990 09h 59m 02.14±17.60s
 51.367 N ±74.6km 16.793 E ±130.0km
 DEPTH = 33.0km (normal)
 POLAND (548)

KSP 0.61 211 iP 59 14.00 -0.3
 0.5s 66.00nm
 iS 59 22.20
 BRG 1.86 256 iPg 59 31.50 -0.7
 iSg 59 51.00
 PRU 1.99 227 ePg 59 34.80 0.7
 eSn 59 52.00
 eSg 59 59.00
 CLL 2.38 270 ePg 59 40.00 0.4
 iSg 00 07.00
 S.D. = 1.1 on 4 of 4 obs.

? JUN 26, 1990 11h 06m 52.09±4.22s
 48.231 N ±85.3km 154.357 E ±30.7km
 DEPTH = 33.0km (normal)
 4.5mb (10 obs.)
 KURIL ISLANDS (221)

INK 39.95 33 eP 14 25.00 0.6
 MBC 42.92 21 eP 14 48.50 -0.1
 0.6s 2.00nm 4.0mb
 YKA 49.23 38 eP 15 38.20 -0.6
 0.9s 1.50nm 4.0mb
 EKA 75.09 347 Pd 18 31.50 -0.5
 0.5s 3.70nm 4.6mb
 CDF 79.60 338 eP 18 56.80 -0.4
 LOR 81.48 340 eP 19 06.70 -0.4
 0.7s 4.40nm 4.6mb
 LBF 81.72 340 eP 19 07.80 -0.5
 0.7s 2.75nm 4.4mb
 SSF 81.75 340 eP 19 08.20 -0.3
 0.9s 4.10nm 4.5mb
 AVF 82.04 340 eP 19 09.90 0.0
 0.8s 2.70nm 4.3mb
 SMF 82.07 340 eP 19 10.10 0.0
 LPL 82.43 338 eP 19 13.00 0.7
 LPG 82.44 338 eP 19 13.00 0.5
 0.8s 5.35nm 4.7mb
 MAF 82.76 341 eP 19 14.30 0.6
 0.8s 6.70nm 4.8mb
 TCF 82.77 341 eP 19 14.00 0.2
 0.9s 4.10nm 4.5mb
 LSF 82.96 341 eP 19 14.70 0.0
 MFF 82.97 343 eP 19 14.80 0.0
 S.D. = 0.5 on 16 of 16 obs.

JUN 26, 1990 12h 08m 29.39±0.09s
 22.015 S ±2.8km 179.473 W ±2.7km
 DEPTH = 586.8km (geophysicist)
 6.0mb (57 obs.)

SOUTH OF FIJI ISLANDS (171)

mb 5.8 (PAS), 5.6 (BRK). Depth
 from broadband displacement
 seismograms.

FAULT PLANE SOLUTION: P-Waves
 NP1: Strike=13 Dip=84 Slip=-50
 NP2: 110 40 -171
 Principal Axes:

T P1g=28 Azm=72
 P 38 318

Comment: The focal mechanism is
 moderately well controlled and
 corresponds to normal faulting
 with a large left-lateral
 strike-slip component. The
 preferred fault plane is NP1.

RADIATED ENERGY

No. of sta: 6 Focal mech. F
 Energy 4.9±0.6*10**12 Nm
 MOMENT TENSOR SOLUTION

Dep 581 Ne. of sta: 12
 Moment Tensor; Scale 10**18 Nm
 Mrr=-0.73 Mtt=0.54
 Mff=1.26 Mrt=0.71
 Mrf=-1.97 Mtr=1.40

Principal axes:
 T Val= 3.14 P1g=28 Azm=116
 N -1.18 20 15
 P -1.96 54 255
 Best Double Couple: Mo=2.6*10**18
 NP1: Strike=247 Dip=24 Slip=-36
 NP2: 10 76 -110
 CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
 L.P.B.: 17S, 43C
 Centroid Location:
 Origin Time 12:08:38.5 0.3
 Lat 21.715 0.03 Lon 179.60W 0.02
 Dep 613.8 1.2 Half-duration 5.1
 Moment Tensor; Scale 10**18 Nm
 Mrr=0.17 0.03 Mtt=-0.53 0.04
 Mff=0.36 0.04 Mrt=-1.10 0.04
 Mrf=-2.35 0.04 Mtr=-0.57 0.05
 Principal Axes:
 T Val= 2.66 P1g=45 Azm=100
 N 0.08 15 206
 P -2.74 41 309
 Best Double Couple: Mo=2.7*10**18
 NP1: Strike=107 Dip=15 Slip=172
 NP2: 205 88 75

SVA 4.34 333 iPc 09 58.60 1.8
 eS 11 10.90
 VUN 4.43 334 eP 09 58.30 0.7
 eS 11 12.40
 OVA 4.61 339 iP 10 01.40 2.5
 KRO 4.80 347 iPc 10 01.90 1.5
 SGE 5.04 330 iPc 10 05.10 2.7X
 TVI 5.09 354 iPc 10 04.90 2.1
 NDF 5.13 325 iP 10 06.20 3.2X
 eS 11 24.80
 MBU 5.30 341 iPc 10 06.90 2.4
 UDU 5.85 355 eP 10 11.00 1.9
 YSA 5.98 332 iP 10 12.30 2.1
 PVC 12.25 288 iPc 11 15.30 4.7X
 iS 13 31.30
 DZM 13.06 267 iPd 11 21.00 2.2
 iS 13 37.30
 ScP 18 42.80
 ScS 22 23.70
 HBZ 15.65 187 P 11 45.10 1.3
 PUZ 16.12 186 P 11 49.20 0.8
 S 14 28.90
 WLZ 16.34 194 P 11 54.50 4.0X
 S 14 40.80
 TAZ 16.53 191 P 11 53.70 1.4
 UTU 16.53 192 P 11 55.80 3.4X
 NOZ 16.69 187 P 11 54.30 0.5
 PGZ 18.89 190 P 12 14.10 -0.6
 MNG 19.03 192 P 12 14.80 -1.2
 S 15 13.90
 MTW 19.55 191 P 12 20.00 -0.8
 CAW 19.59 192 P 12 20.30 -0.8
 WDW 19.76 192 P 12 22.40 -0.3
 BLW 19.76 191 P 12 22.50 -0.2
 MRW 19.78 193 P 12 23.00 0.1
 WEL 19.82 193 P 12 23.30 0.1
 MOW 19.85 192 P 12 23.70 0.1
 TCW 19.85 194 P 12 23.40 -0.2
 CCW 20.38 194 P 12 29.20 0.8
 THZ 20.71 196 P 12 31.40 -0.1
 S 15 41.90
 KHZ 21.17 194 P 12 34.90 -0.6
 LTZ 21.83 197 P 12 41.00 -0.6
 S 15 58.60
 MQZ 22.60 195 P 12 47.90 -0.5
 HNR 23.39 299 eP 12 54.00 -1.8
 eS 16 24.00
 MMCZ 24.77 200 P 13 08.20 0.3
 MHZ 24.77 199 P 13 07.40 -0.6
 TLC 24.96 199 P 13 10.00 0.4
 BRS 25.75 252 iPc+ 13 18.70 2.1
 e(PP) 13 38.00
 i(PPP) 13 50.00
 iP 14 48.50
 e(SP) 15 58.00
 iS 17 08.00

26d 12h																		
IPM	82.01	278	iS ePd e	29 10.00 19 52.10 21 57.00	1.7	IIT	89.19	69	(P)	20 26.33	1.3	CCM	101.90	54	ePd ePc esPd iSKSpC eSKKS eSDIF ePPS esS	21 22.08 23 30.20 24 28.47 31 02.44 31 42.17 32 17.62 33 52.95 36 09.37	0.1X	
MIN	82.13	41	ePc	19 50.60	0.0	PTI	89.27	43	P	20 25.70	0.9							
TPC	82.16	49	eP e	19 51.00 22 02.00	0.2	NEW	89.40	36	P	20 25.10	0.0							
WHN	82.25	307	iPd 1.5s 660.00nm S	19 52.50 5.9mb	1.3	ALQ	89.42	52	iPc 1.2s 136.72nm	20 26.00 5.8mb	0.3							
GSC	82.29	47	eP e	19 52.00 22 03.00	0.5	ANMO	89.42	52	iPc 1.4s 196.22nm	22 35.00 5.8mb	595kmX		CNCB	102.62	114	Pd S	21 30.00 25 49.00	3.7X
GLA	82.45	50	eP e	19 53.00 22 01.00	0.8								ZOBO	102.75	113	Pd 1.1s 20.88nm Z 24s 0.48um	21 30.00 5.7mb 4.9mszX	3.1X
SNY	82.49	321	iPd 1.2s 300.00nm pP sP iS sS	19 52.00 5.7mb 21 57.00 22 55.00 29 14.00 33 00.00	-0.1	HHC	89.43	315	Pd 1.0s 500.00nm	20 26.40 6.4mb	0.9							
LBFM	82.57	40	P	19 53.80	0.9	CHG	89.47	290	iPd	20 27.50	1.5							
KDC	82.60	14	iPd	19 52.10	-0.2	CHTO	89.47	290	iPd ipPd esPc eHPP iPP	20 27.01 22 31.49 23 30.75 24 09.22 24 09.88	1.0							
CN2	82.67	323	iPd 1.0s 500.00nm pP sP S	19 53.00 6.0mb 21 57.00 22 56.00 29 21.00	0.0	OXX	89.82	72	(P)	20 29.86	2.0							
TIA	83.29	313	Pd 5.5s 2800.00nm pP sP S	19 56.80 6.0mb X 22 01.00 23 01.00 29 21.00	0.5	IMA	89.97	10	iPd 0.9s 44.70nm	20 26.90 5.4mb	-0.6							
SNG	83.39	280	iPd 1.0s 796.00nm eS	19 58.80 6.2mb 29 26.60	1.6	MCMT	89.99	41	iPc	20 28.70	0.5							
KVN	83.55	43	P pP	19 58.20 22 05.20	0.4	FBA	90.01	13	iPd	20 26.00	-1.5							
TNP	83.57	45	P pP	19 58.40 22 05.60	0.5	LTMT	90.28	41	eP epP	20 30.60 22 42.60	1.0							
COR	83.77	37	ePc epPc esPd iS iS	19 59.11 22 05.25 23 04.84 29 36.37 33 21.50	0.6	BTO	90.33	314	iPd pP sP SKS S	20 30.00 22 39.00 23 37.00 30 03.00 30 33.00	0.3							
TSI	83.86	276	ePc ePd	19 59.50 20 03.50	-0.1	CD2	90.46	303	eP 4.0s 1200.00nm pP sP PP SKS S	20 31.60 6.2mb X 22 37.00 23 38.00 24 15.00 30 04.00 30 40.00	1.2							
PVT	85.04	11	ePd	20 03.50	-0.9	BGMT	90.69	41	ePc	20 32.00	0.6							
SCW	85.66	288	ePd 0.5s 4.50nm	20 09.50 4.4mb X	1.4	LRM	90.75	40	ePc ipP	20 31.50 22 44.00	-0.2							
BJI	86.01	316	iPd 1.7s 850.00nm ipPd isPc esKS eS	20 09.61 6.2mb 22 14.75 23 14.02 29 36.00 29 58.19	0.2	BW06	91.01	44	P 1.2s 44.11nm	20 32.70 5.4mb	-0.2							
GYA	86.21	300	iPd 1.4s 500.00nm	20 11.60 6.1mb	0.7	LVVM	91.09	69	(P)	20 33.79	0.4							
PGC	86.27	33	eP	20 11.00	0.6	EVV	91.55	71	(P)	20 37.00	1.5							
NNT	86.32	285	iPd	20 12.40	1.0	HRY	91.58	40	iPc eP	20 35.30 22 47.50	0.0							
LOE	86.48	290	iPd	20 13.00	0.9	SXM	91.66	40	iPc ipP	20 36.30 22 48.60	0.5							
TTA	86.67	11	iPd	20 11.80	-0.4	GOL	92.35	48	P 0.8s 8.48nm	20 39.40 4.8mb X	0.2							
PMR	86.81	14	iPd 1.3s 406.20nm	20 11.90 6.0mb	-0.8	CHCH	92.40	128	eP	20 40.00	0.6							
AGX	86.95	65	(P)	20 17.00	2.8X	GLD	92.48	48	P 1.3s 100.57nm	20 40.40 5.7mb	0.7							
ACX	86.98	71	(P)	20 15.98	1.5	LZH	92.60	308	iPd 1.5s 410.00nm	20 41.21 6.3mb	0.9							
SJT	87.04	22	ePd	20 14.10	0.2													
MSU	87.14	46	P	20 16.10	0.9	epPd esPc	22 46.03 23 43.96	568kmX										
NST	87.18	288	iPd	20 17.50	2.1	pP	24 30.00											
TIY	87.27	313	iPd 1.4s 900.00nm sP ScS	20 16.00 6.3mb 23 19.00 30 12.50	0.4	SKS	30 16.00											
YKU	87.56	19	eP	20 17.00	0.7	S	30 58.00											
III	87.93	69	(P)	20 20.23	1.1	IPc	20 42.00	0.9										
TOA	87.94	15	eP	20 18.00	-0.2	1.0s 160.00nm	6.0mb											
XAN	87.97	308	iPd 1.0s 400.00nm	20 19.00 6.2mb	0.1	SES	93.90	37	ePc	20 45.30	-0.5							
CRX	88.16	68	(P)	20 22.00	1.7	RSSD	95.19	44	P	20 51.60	-0.4							
IIJ	88.25	68	(P)	20 21.76	0.8	INK	96.09	16	eP	20 54.00	-1.1							
IIC	88.67	68	(P)	20 23.12	0.4	GTA	96.87	310	iPd 1.6s 200.00nm	20 59.80 6.2mb	0.3							
PNT	88.67	34	eP 0.8s 68.00nm	20 22.00 5.6mb	0.3	PP	25 01.00											
DAU	88.72	45	P	20 23.10	0.5	eP	21 02.00	-1.4										
BDT	88.80	289	iPd 1.0s 586.50nm	20 25.00 6.4mb	2.1	1.2s 10.50nm	5.0mb											
KMI	88.82	298	iPd 2.0s 1200.00nm ipPd ec eS	20 24.80 6.5mb 22 29.29 23 26.23 30 24.80	1.6	LNO	97.74	55	eP e e e	21 05.50 21 10.50 25 07.50 21 04.50	2.2							
						UYO	98.13	57	e(P)	21 04.50	-0.7							
						YKA	98.46	25	eP 0.9s 3.70nm	21 04.80 4.8mb X	-1.2							
						LSA	100.07	298	Pd S	21 15.80 31 54.00	1.1							

GAZ	144.95	304	iPKP	27	01.90	0.0	CTT	149.73	315	iPKP	27	14.10	4.7X	i	27	34.90					
COP	145.23	348	iPKPd	27	02.10	0.3	DBN	149.75	354	ePKP	27	10.00	1.0	FUR	152.52	344	iPKPc	27	13.30	0.0	
	1.3s	953.85nm								e	29	32.00				i	27	20.70			
EDU	145.41	3	ePKP	27	00.70	-1.4				e	30	27.00				i	27	34.70			
	0.6s	277.00nm					DMK	149.80	317	iPKP	27	14.50	5.0X	SRS	152.78	320	ePKPc	27	20.40	6.6X	
ELO	145.45	4	ePKP	27	00.90	-1.3	PSZ	149.84	334	iPKP	27	14.60	5.2X			eS	28	05.00			
EBH	145.68	4	ePKP	27	01.50	-1.0	BCK	149.86	307	iPKP	27	14.60	4.8X	OUR	153.00	318	ePKPc	27	27.00	12.9X	
	0.7s	292.00nm					PRU	149.97	342	PKPd	27	08.60	-0.8	PTJ	153.05	336	iPKPd	27	13.00	-1.2	
EAB	145.68	5	ePKP	27	01.40	-1.1	PRU	149.97	342	iPKP	27	15.00	5.6X	SOH	153.10	319	ePKPc	27	20.90	6.6X	
KAS	146.05	312	ePKP	27	03.50	-0.2	DEV	150.01	328	ePKPd	27	10.00	0.4			IS	28	03.60			
ESY	146.06	3	ePKP	27	02.20	-1.0	AKSR	150.04	279	iPKPc	27	10.50	0.2	CDF	153.11	350	ePKP	27	13.30	-0.9	
EAU	146.09	4	ePKP	27	02.80	-0.4	MOX	150.13	346	iPKP	27	09.00	-0.7			1.4s	34.85nm				
	0.6s	249.00nm								i	27	15.50		ZAG	153.11	336	iPKPd	27	13.50	-0.6	
EBL	146.18	4	ePKP	27	03.00	-0.4				i	27	23.00		KNT	153.16	320	ePKPc	27	15.20	0.8	
EKA	146.62	4	PKPc	27	00.50	-3.6X	AGAL	150.21	279	ePKP	27	11.00	0.4	VAY	153.25	321	iPKP	27	13.30	-1.1	
	0.9s	4.00nm					AGRW	150.23	279	ePKP	27	11.00	0.4		1.2s	31.00nm					
IAS	146.75	326	ePKP	27	04.00	-0.5	KHL	150.29	310	ePKP	27	09.00	-1.4			i	27	22.00			
WAJH	146.91	284	ePKP	27	05.00	-0.4	AKRL	150.33	279	ePKP	27	11.00	0.3			i	27	37.40			
HRI	147.00	298	iPKPd	27	03.50	-0.3	HOF	150.38	345	iPKPc	27	10.00	-0.1	FLN	153.30	1	ePKP	27	13.60	-0.7	
CLI	147.31	325	iPKPd	27	09.50	4.0X				i	27	15.90				1.1s	48.85nm				
PPE	147.34	324	ePKPc	27	08.50	3.0X	BNT	150.46	315	ePKP	27	15.00	4.5X	SQTA	153.41	344	iPKPd	27	13.90	-0.8	
BBTK	147.37	310	iPKPd	27	09.00	3.1X	EDC	150.50	315	iPKP	27	15.50	4.9X			1.2s	61.70nm				
PIT	147.53	326	ePKP	27	10.00	4.2X	BUD	150.55	334	ePKP	27	08.80	-1.6			i	27	22.30			
DSI	147.58	295	iPKPd	27	07.00	0.7	SRO	150.56	335	iPKP	27	16.80	6.4X			ipPKP	29	38.80			
CFR	147.66	322	ePKP	27	06.00	0.0	ELL	150.63	307	ePKP	27	12.00	1.0			i	29	45.60			
FAM	148.02	301	ePKP	27	06.00	-0.9	ZST	150.70	337	ePKP	27	10.60	0.0			i	29	55.00			
VRI	148.04	324	iPKPd	27	10.00	3.3X				i	27	17.10				i	30	04.20			
PRNI	148.07	292	iPKPd	27	07.00	-0.2				i	27	26.70				iPP	31	12.40			
TLB	148.09	321	ePKPc	27	07.00	0.3				e	29	40.40				i	34	43.90			
KRA	148.11	336	ePKP	27	05.70	-0.9	BZS	150.83	329	ePKP	27	07.50	-3.3X	PAIG	153.43	317	ePKP	27	27.00	12.3X	
	1.5s	675.00nm					VKA	150.92	338	ePKP	27	09.00	-1.9	LJU	153.45	338	ePKPd	27	14.00	-0.6	
		i	27	10.40			ENN	150.99	353	iPKPc	27	11.00	0.1			e	29	39.50			
		e	29	15.20						i	27	18.00		SKO	153.47	323	iPKP	27	13.00	-1.7	
		e	29	22.00			KHC	151.02	342	PKP	27	10.70	-0.4			1.5s	108.00nm				
BRN	148.11	345	ePKPc	27	06.00	-0.5				i	27	18.70				iP'P'	27	22.50			
		id	27	11.50						i	27	18.00				i	27	38.50			
		ePP	29	28.50			KSL	151.10	306	ePKP	27	17.50	5.9X			i	29	34.00			
HQL	148.13	290	ePKP	27	07.30	0.0	GRF	151.11	346	ePKPd	27	11.10	-0.1	LDF	153.47	1	ePKP	27	13.80	-0.7	
DCN	148.16	9	ePKP	27	05.60	-1.0				id	27	17.90				1.1s	36.65nm				
	1.0s	111.00nm								e	27	28.20		SLE	153.52	348	ePKPd	27	14.00	-0.6	
BADA	148.23	289	ePKP	27	06.80	-0.7				e(PP)	29	30.00		FVI	153.54	341	PKP	27	13.70	-0.9	
DLE	148.31	8	ePKP	27	06.20	-0.6				e(PP)	29	30.00		GRG	153.58	321	ePKPc	27	12.50	-2.4	
	1.1s	73.00nm								e	29	36.70		HAU	153.65	351	ePKP	27	14.40	-0.4	
LFK	148.32	302	iPKP	27	05.70	-1.8				e	27	27.00		VBY	153.65	336	ePKPd	27	14.70	-0.1	
CSS	148.56	301	ePKP	27	06.50	-1.3				e	29	36.00				i	27	23.30			
SPC	148.69	335	iPKP	27	07.50	-0.3				e	29	36.00		GRR	153.66	2	ePKP	27	14.10	-0.6	
		i	27	12.10						e	27	27.00				1.0s	18.00nm				
		i	29	32.60						id	27	17.55		VOY	153.68	339	ePKPd	27	13.50	-1.5	
KSP	148.69	341	ePKPd	27	07.20	-0.3				e	29	39.30				e	27	38.10			
MLR	148.70	324	iPKPd	27	06.70	-1.2				e	27	25.70		CEY	153.75	338	ePKPd	27	14.40	-0.6	
	1.4s	772.90nm								e	27	36.40				e	29	47.00			
		e	27	31.20						ed	29	37.00		BSF	153.75	350	ePKP	27	14.40	-0.7	
		e	29	35.20						i	27	17.90				1.2s	35.70nm				
		e	37	29.70						i	27	17.90		OGA	153.79	344	iPKPd	27	15.30	0.0	
GPA	148.88	313	ePKP	27	07.00	-1.2				i	27	28.90		ZLA	153.81	348	ePKPd	27	14.50	-0.6	
WIT	148.89	353	ePKPc	27	08.50	0.8				i	27	11.70	-0.3	SAX	153.84	346	ePKPd	27	14.80	-0.6	
ETA	148.94	8	ePKP	27	12.00	4.2X				e	27	19.00				e	29	23.30			
YRH	148.98	6	ePKP	27	11.70	3.8X				e	27	30.00		TRI	154.01	339	iPKPd	27	14.50	-0.8	
	1.0s	181.00nm								e	29	35.50				i	27	23.50			
VAL	148.99	13	iPKP	27	12.80	5.0X				e	29	35.50				i	27	39.30			
HRT	149.07	314	iPKP	27	11.60	3.1X				e	29	35.50				e	31	10.00			
CLL	149.19	345	iPKP	27	07.20	-1.0				e	33	20.00				e	33	20.00			
	1.6s	1150.00nm								id	27	18.12				e	34	12.00			
		i	27	13.00						ic	27	28.90				e	40	24.00			
		pPKP	29	30.00						e	27	18.00	5.9X			e	42	28.00			
		SKKS	36	42.00						e	27	18.00	5.7X			e	49	42.00			
GBZT	149.23	314	ePKP	27	13.00	4.4X				e	27	18.40	6.0X			e	55	44.00			
BUC	149.30	323	iPKPd	27	12.00	3.4X				id-	27	19.00		LPF	154.01	2	ePKP	27	14.80	-0.4	
CMP	149.33	325	iPKPc	27	05.00	-3.7X				e	27	31.00				1.0s	24.00nm				
BRG	149.34	343	iPKP	27	07.70	-0.8				e	29	37.70		LIT	154.06	319	ePKPd	27	18.60	3.0X	
		i	27	13.20						e	29	53.00				is	27	59.90			
		i	27	19.80						e	27	11.60	-0.6			i	27	14.10			
		iSKP	30	28.00						e	27	19.30				e	27	15.20			
		eSKKS	36	43.20						e	27	32.20				e	27	10.20			
		ipPKP	44	32.60						ipPKP	29	34.40				e	27	15.50			
ISK	149.35	315	ePKP	27	13.00	4.2X					ipPKP	29	34.40				e	27	07.10	-8.8X	
ITU	149.36	315	ePKP	27	13.00	4.2X					e	27	19.50	7.0X	OHR	154.40	323	iPKPd	27	15.40	-0.7
PPCY	149.36	302	ePKP	27	13.00	4.0X					i(S)	29	41.00				1.5s	134.00nm			
BUC1	149.38	323	ePKPd	27	12.00	3.3X						27	20.28	7.8X			i	27	24.70		
YLV	149.39	314	iPKP	27	08.00	-1.0						27	20.50	7.1X			i	27	42.30		
ECP	149.42	8	ePKP	27	13.00	4.5X						27	13.10	-0.1	LACI	154.64	325	ePKP	27	14.00	-2.3
	1.0s	313.00nm										27	20.90		LOR	154.66	355	ePKP	27	15.80	-0.4
IZI	149.43	313	ePKP	27	13.60	4.5X															
TNR	149.48	326	ePKPc	27	11.00	2.1															

26d 12h

Table with columns for station code (e.g., TIR, AGG, SSF), time/distance (e.g., 1.3s, 39.70nm), and values (e.g., 27 16.00 -0.5). Includes stations like BCB, DIX, TPE, BGF, MFF, ORO, IGT, TCF, MAF, LSF, LPL, RSM, LPG, BOB, ARV, SF1, PGD, CRE, BNI, BDI, BRT, LCI, FIR, ASS, RJF, P11, DOI, AQU, CAF, LFF, DUI, AZI, LPO, SBI, SBF, ORI, SGO, BSS, TDS, FRF, LRG, LMR, PGF, ERUA, SOI, ATN, GUD, ETOR.

Table with columns for station code (e.g., EPLA, EROQ, EBR, TOL, ECHE, EVIA, EVAL, LIC, KIC, TIC, EJIF, MAL, LKO, AVE, TIO), time/distance (e.g., 16 ic, 28 11.20), and values (e.g., 27 25.20 1.3). Includes summary statistics: S.D. = 1.0 on 406 of 487 obs., % JUN 26, 1990 15h 33m 12.88 ± 2.45s, DEPTH = 10.0km, PYRENEES MD 1.0 (STR), S.D. = 0.4 on 5 of 5 obs., & JUN 26, 1990 17h 34m 57.45s, DEPTH = 125.1km, SOUTHERN ALASKA <AGS-P>.

Table with columns for station code (e.g., PMS, PWA, KDC, PLRM, GHQ, CUT, SML, GLI, SCM, VZW, VLZ, KTH, KLU, TOA, WRH, TGL, CCB), time/distance (e.g., 2.02 54 eP), and values (e.g., 35 30.91 -1.0). Includes summary statistics: JUN 26, 1990 17h 59m 58.25 ± 0.17s, DEPTH = 0.0km, TUAMOTU ARCHIPELAGO REGION (631), and a list of stations including DZM, BAR, PLM, PAS, MWC, RVR, GLA, BCH, SBB, TPC, PEL, PRS, PRI, GSC, SAO, GCC, CLC, PCC, MHC, ARN, BRK, BKS, CMB, TNP, ARE, ORV, KVN, WDC, ALQ, ANMO, LBFM, RMO, MSU, LPB, CNCB, ZOBO, DUG, CMS, DAU, SPA, CCH, MEO, RRO, GOL, GLD, CTA, QLP, VGB.

Table with columns for station codes (SKT, KTH, PWA, etc.), magnitudes, depths, and coordinates. Includes a note: '21 obs. associated'.

JUN 26, 1990 19h 03m 10.38 ± 0.60s
36.895 N ± 9.7km 50.069 E ± 7.9km
DEPTH = 10.0km (geophysicist)
4.2mb (5 obs.)

IRAN (348)
Felt at Lowshon, Manjil, Rosht and Rudbar.

Table with columns for station codes (TEH, TAB, KER, etc.), magnitudes, depths, and coordinates. Includes a note: 'S.D. = 0.9 on 10 of 12 obs.'.

JUN 26, 1990 19h 55m 05.32 ± 0.92s
7.414 S ± 14.0km 128.780 E ± 21.0km
DEPTH = 187.4 ± 37.6 km
3.7mb (1 obs.)

BANDA SEA (280)

Table with columns for station codes (AAI, MTN, KNA, etc.), magnitudes, depths, and coordinates.

JUN 26, 1990 20h 30m 42.93 ± 0.92s
19.288 S ± 12.4km 126.898 E ± 9.7km
DEPTH = 10.0km (geophysicist)

WESTERN AUSTRALIA (590)

Table with columns for station codes (KNA), magnitudes, depths, and coordinates. Includes a note: 'S.D. = 0.6 on 6 of 7 obs.'.

JUN 26, 1990 21h 54m 45.73 ± 0.36s
34.858 N ± 3.2km 138.990 E ± 2.8km
DEPTH = 149.7 ± 2.9 km
5.2mb (90 obs.)

NEAR S. COAST OF HONSHU, JAPAN (230)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 17C

Table with columns for station codes (WARB, MBL, WB5, etc.), magnitudes, depths, and coordinates. Includes a note: 'S.D. = 1.4 on 5 of 8 obs.'.

JUN 26, 1990 20h 37m 24.87 ± 0.56s
60.913 N ± 4.8km 6.786 E ± 5.2km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 2.0 (BER).

Table with columns for station codes (HYA, BER, ASK, etc.), magnitudes, depths, and coordinates. Includes a note: 'S.D. = 0.4 on 9 of 9 obs.'.

JUN 26, 1990 21h 24m 37.48 ± 0.89s
4.170 S ± 9.0km 136.019 E ± 17.5km
DEPTH = 33.0km (normal)
5.1mb (3 obs.)

WEST IRIAN REGION (196)

Table with columns for station codes (MTN, KNA, WB5, etc.), magnitudes, depths, and coordinates. Includes a note: 'S.D. = 1.2 on 11 of 13 obs.'.

JUN 26, 1990 21h 54m 45.73 ± 0.36s
34.858 N ± 3.2km 138.990 E ± 2.8km
DEPTH = 149.7 ± 2.9 km
5.2mb (90 obs.)

NEAR S. COAST OF HONSHU, JAPAN (230)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 17C

Centroid Location:
Origin Time 21:54:49.3 0.7
Lat 34.91N 0.08 Lon 138.61E 0.06
Dep 152.5 3.0 Half-duration 1.7
Moment Tensor; Scale 10**17 Nm
Mrr= 0.29 0.07 Mtt= 0.26 0.10
Mff=-0.55 0.08 Mrt= 0.02 0.08
Mrf=-1.18 0.07 Mtr=-0.50 0.08
Principal Axes:
T Vol= 1.22 Plg=48 Azm= 61
N 0.25 23 180
P -1.47 33 285
Best Double Couple:Mo=1.4*10**17
NP1:Strike= 67 Dip=25 Slip= 160
NP2: 176 82 67

Table with columns for station codes (IIDJ, CHJJ, KAKJ, etc.), magnitudes, depths, and coordinates.

Table with columns for station codes (CN2, SNY, DL2, etc.), magnitudes, depths, and coordinates. Includes a note: 'S.D. = 1.2 on 11 of 13 obs.'.

Table with columns for station codes (SSE, NJ2, TIA, etc.), magnitudes, depths, and coordinates. Includes a note: 'S.D. = 0.6 on 6 of 7 obs.'.

GUMO	21.83	164	eP	59	27.00	0.1	ASPA	58.40	185	iPc	04	27.70	0.0	0.7s	90.41nm	5.6mb										
GUA	21.89	164	eP	59	27.70	0.3		0.6s	34.00nm					VR1	79.09	319	ePc	06	35.50	0.8						
	0.5s	73.24nm				5.4mb	MBL	58.61	201	eP	04	27.00	-2.1				BBTK	79.28	311	eP	06	36.00	0.0			
HHC	22.42	294	eP	59	29.00	-3.5X		0.4s	13.00nm					ABL	79.31	55	P		06	36.50	0.1					
Z	15s	1.20um				4.4MsZ	GBA	59.08	265	Pc	04	31.70	-0.9	RUWJ	79.55	302	Pd		06	44.30	6.8X					
N	12s	0.50um						0.5s	42.90nm					QASM	79.72	295	ePd		06	38.00	-0.5					
E	12s	0.80um					MBC	59.16	16	iPc	04	31.30	-1.0	MLR	79.75	319	iPc		06	38.80	0.4					
BTO	23.56	293	eP	59	40.00	-3.6X		0.9s	52.00nm						0.6s	7.10nm								4.6mb		
N	13s	0.60um					SIT	59.32	39	P	04	33.80	0.2	KRA	79.77	325	eP		06	38.20	0.0					
E	13s	0.80um						1.3s	122.64nm						0.8s	57.00nm								5.4mb		
BAG	24.68	227	eP	59	52.00	-2.4	POO	59.48	272	iPd	04	33.20	-2.2	CLC	79.84	53	eP		06	39.00	0.0					
XAN	24.77	277	P	59	52.50	-2.5	QUE	59.72	287	iPd	04	36.60	-0.4	SPC	80.22	324	eP		06	40.70	-0.2					
GZH	25.24	249	P	59	59.40	0.0			e(S)						e									09	45.40	
LZH	28.56	283	Pd	00	27.50	-2.1	NANU	61.30	205	eP	04	46.70	-0.7	SBB	80.34	54	eP		06	42.00	0.3					
	2.0s	120.00nm				5.3mb		0.4s	7.00nm					CMP	80.38	319	ePc		06	37.00	-4.6X					
Z	14s	0.90um				4.5MsZ	WARB	61.82	193	eP	04	51.40	0.5	MWC	80.46	55	P		06	43.00	0.6					
E	11s	0.60um						0.3s	8.00nm					HRT	80.56	313	eP		06	44.00	1.3					
		PP	01	25.00			DZM	62.33	151	iPc	04	55.10	0.7	BW06	80.59	44	P		06	42.30	-0.7					
		ScP	07	03.00			MAIO	62.84	297	iPd	04	57.80	0.1	GSC	80.66	53	eP		06	44.00	0.6					
		ScS	10	56.00				eS	13	20.00			UQSK	80.76	295	iPd		06	44.50	0.5						
GYA	28.94	262	iPd	00	31.00	-2.1	BRS	63.27	166	iP	05	01.00	0.6	QTFJ	80.86	302	Pc		06	50.00	5.6X					
	1.2s	100.00nm				5.4mb	FORR	66.16	190	eP	05	10.90	-8.0X	KSP	80.89	327	iPc		06	45.20	1.1					
		PcP	03	39.00				0.5s	63.00nm						e									07	20.00	
		S	05	10.00			SOD	66.20	337	iP	05	18.70	-0.2			e									09	50.00
		ScP	07	06.00			STK	66.43	178	eP	05	20.90	0.3	RVR	81.05	55	eP		06	45.00	-0.3					
		PcS	07	20.00				0.9s	12.00nm					AFIF	81.09	293	iPd		06	48.00	2.3					
CD2	29.75	272	eP	00	38.00	-2.1	YKA	66.67	29	eP	05	20.00	-1.9	HRI	81.22	304	iPd		06	48.00	1.7					
N	10s	1.10um						0.9s	32.20nm					ALT	81.38	312	eP		06	47.00	-0.1					
QIZ	30.25	246	P	00	44.80	0.4	DAG	67.77	355	iPc	05	27.00	-1.6	BURJ	81.77	304	Pd		06	47.70	-1.5					
N	12s	0.60um						1.0s	32.00nm					PLM	81.77	55	eP		06	50.00	0.7					
		PP	01	55.00			SUF	69.03	333	iP	05	35.60	-0.9	TPC	81.87	54	eP		06	49.00	-0.6					
GTA	31.39	290	Pd	00	52.80	-1.7		0.6s	28.30nm				BRG	81.90	328	iPc		06	58.00	0.7						
N	10s	0.40um					PGC	69.26	45	eP	05	38.00	-0.1		1.8s	52.00nm								07	26.50	
		S	05	47.00			BWA	69.48	172	eP	05	39.80	0.2			e									10	02.00
KMI	32.71	263	Pd	01	04.50	-1.7	CAN	70.44	171	eP	05	46.00	0.6	BZS	81.96	321	eP		06	50.00	0.2					
	1.8s	200.00nm				5.6mb	NUR	70.93	332	iP	05	48.00	0.0	CLL	81.98	329	iPd		06	49.50	-0.2					
Z	16s	0.90um				4.6MsZ		0.5s	49.10nm						1.2s	51.00nm									5.1mb	
		PP	02	24.50			PNT	71.10	43	iPc	05	49.30	-0.1			iPp	07	26.10							146kmX	
		eS	06	08.00			TAB	71.39	304	eP	05	51.00	-0.4	SALJ	81.99	303	Pd		06	50.50	0.2					
ADK	35.79	48	P	01	30.70	-1.2	EDM	72.27	37	iPc	05	55.90	-0.3	KFNJ	82.08	303	Pc		06	51.90	1.3					
	1.2s	212.12nm				5.7mb	NEW	73.06	43	P	06	00.00	-0.9	SRO	82.10	324	eP		06	51.40	1.0					
LOE	37.43	252	iPd	01	44.50	-1.5		1.1s	108.02nm					PRU	82.28	328	P		06	52.20	0.8					
CHG	38.86	256	iPd	01	57.50	-0.5	WDC	73.95	52	ePc	06	06.80	0.6		1.6s	40.00nm								07	29.50	
	1.2s	68.36nm				5.3mb	LBFM	73.96	51	P	06	07.00	0.5	BAR	82.30	56	eP		06	52.00	0.1					
		e	07	41.60			UPP	74.03	333	iPc	06	05.60	-0.6	ZST	82.40	325	eP		06	53.00	1.0					
		eS	11	15.00			BRF	74.38	291	iP	06	07.00	-1.8	DSI	82.46	303	iPd		06	54.30	1.7					
WMO	40.11	299	iPd	02	08.20	0.1		0.5s	187.00nm					KDZ	82.52	316	ePd		06	54.00	1.2					
	3.0s	1400.00nm				6.2mb	LTCM	74.42	52	P	06	09.30	0.4	RZN	82.89	317	iPd		06	56.00	1.1					
		ScP	07	45.00			DHR	74.60	291	ePd	06	09.50	-0.6	MOX	83.05	329	iP		06	56.00	0.6					
		S	08	04.00			SES	75.08	39	iPc	06	12.40	-0.2	BEO	83.10	321	e(P)		06	56.00	0.3					
		ScS	11	56.00				0.5s	41.00nm					HOF	83.20	329	iPc		06	56.90	0.8					
LSA	40.47	276	P	02	13.00	1.3	ORV	75.18	52	ePc	06	13.30	0.1	GLA	83.32	54	eP		06	58.00	0.9					
		eS	08	09.00			HFS	75.24	335	eP	06	12.40	-0.8	WIT	83.34	333	eP		06	58.00	1.3					
NNT	41.85	248	eP	02	21.20	-1.3		0.6s	15.40nm					KHC	83.34	327	P		06	57.50	0.6					
ANM	44.47	31	eP	02	43.60	0.5	Z	17s	0.14um						1.0s	28.50nm								5.1mb		
SNG	44.74	241	eP	02	45.70	-0.1			epP	06	16.20	12kmX	PRNI	83.45	302	iPd		06	59.50	1.7						
GUN	45.43	277	Pd	02	51.00	-0.6			esP	06	18.40		MMB	83.51	317	ePd		06	59.00	1.1						
SDN	45.72	44	eP	02	51.00	-2.0			epP	08	58.00		PV09	83.55	47	P		06	58.50	0.0						
PKI	45.95	276	Pd	02	54.60	-1.1			LR	34	13.00		AYN	83.62	301	ePd		06	58.70	0.1						
DMN	46.18	276	Pd	02	56.50	-0.9	NB2	75.41	337	P	06	13.90	-0.3	WET	83.64	328	iPc		06	59.50	1.1					
IPM	46.26	238	ePd	02	58.50	0.7		0.8s	27.70nm				MBH	83.87	302	iPd		07	01.40	1.6						
	0.7s	37.20nm				5.0mb	BRK	75.59	54	eP	06	16.00	0.4	WTS	83.93	333	eP		07	00.50	0.8					
GKN	46.41	277	Pd	02	58.20	-0.9	BKS	75.61	54	eP	06	16.20	0.5		0.7s	7.00nm								4.6mb		
MTN	48.02	190	ePc	03	10.50	-1.0		0.9s	189.00nm					GRF	83.94	329	ePd		07	01.00	1.1					
TTA	48.32	34	eP	03	13.30	-0.1	PCC	75.71	54	ePc	06	16.10	-0.1		1.1s	84.00nm								5.5mb		
SVW	48.42	36	eP	03	15.00	0.8	MHC	76.29	54	ePc	06	20.00	0.3	Z	20s	0.10um								4.2MsZ		
TRT	49.11	216	iPc	03	17.40	-2.5	ARN	76.36	54	P	06	20.20	0.2	HQL	84.05	302	ePd		07	01.30	0.6					
IMA	49.55	30	iPc	03	22.60	-0.3	FFC	76.59	31	iPc	06	20.50	-0.3	VAY	84.34	317	eP		07	02.80	0.8					
	1.1s	28.70nm				4.9mb		0.8s	79.00nm					DHJN	84.47	288	eP		07	04.78	1.4					
KDC	50.08	41	ePc	03	25.90	-0.9	CMB	76.74	53	ePc	06	22.60	0.5	EKA	84.50	339	Pd		07	02.80	0.3					
PMR	51.54	35	iPc	03	36.70	-1.1	HRY	76.88	42	iPc	06	23.20	0.4		0.7s	6.90nm								4.6mb		
	1.1s	184.90nm				5.7mb	BUT	76.90	43	eP	06	24.00	1.1	SRAT	84.51	288	ePd		07	04.90	1.4					
FBA	51.98	31	iPc	03	40.50	-0.6	LRM	77.08	43	iPc	06	24.10	0.4	SKO	84.52	318	iPd		07	04.50	1.6					
TOA	52.90	35	eP	03	48.20	0.2			e					BADA	84.53	301	ePd		07	03.70	0.6					
WB5	54.61	185	eP	04	00.10	-0.7	MCMT	77.45	44	ePc	06	26.00	-0.1	BHG	84.70	327	eP		07	04.50	0.8					
WRA	54.68	185	Pd	04	00.50	-0.8	SXM	77.57	42	ePc	06	26.90	0.2		1.0s	64.00nm								5.4mb		
	1.0s	67.80nm																								

26d 22h

MEM 85.34 332 P 07 07.30 0.5	0.8s 25.50nm	5.3mb	RUV 27.85 91 iP 39 56.60 0.2
CEY 85.45 325 eP 07 07.40 -0.1	SBF 90.10 327 eP 07 29.20 -0.6	0.8s 25.00nm	4.6mb
OHR 85.46 318 eP 07 05.50 -2.2	0.7s 11.00nm	5.0mb	CAN 36.18 232 eP 41 08.20 0.6
0.6s 58.00nm	5.6mb	SOI 90.20 319 P 07 30.00 -0.3	BWA 36.29 234 eP 41 07.80 -0.8
VOY 85.48 325 eP 07 06.80 -1.0	MAF 90.24 331 eP 07 30.70 0.3	TOO 39.64 230 eP 41 37.00 1.0	STK 41.09 240 iPd 41 48.50 0.7
FVI 85.58 326 Pc 07 07.70 -0.4	TCF 90.32 332 eP 07 30.90 0.1	0.8s 6.70nm	4.1mb
TRI 85.78 325 iPd 07 08.50 -0.6	PGF 90.41 326 eP 07 30.90 -0.5	1.0s 12.00nm	4.9mb
SQTA 85.82 327 iPc 07 09.90 0.5	LSF 90.62 332 eP 07 32.10 0.0	0.8s 17.45nm	5.2mb
0.6s 8.90nm	4.8mb	FRF 90.69 327 eP 07 32.10 -0.4	0.8s 12.10nm
i 07 11.40	5.0mb	LRG 90.90 328 eP 07 33.40 0.0	0.8s 18.80nm
i 07 13.80	LMR 90.93 327 eP 07 33.40 -0.2	0.9s 19.65nm	5.2mb
SNF 86.07 333 iPd 07 10.64 0.2	MFF 90.96 333 eP 07 34.30 0.6	0.8s 20.15nm	5.3mb
OQA 86.17 327 iPc 07 11.90 0.6	RJF 91.41 331 eP 07 36.40 0.6	0.9s 14.75nm	5.1mb
DOU 86.29 333 iPc 07 11.80 0.3	CAF 91.51 331 eP 07 36.90 0.6	0.9s 18.00nm	5.2mb
CDF 86.58 330 eP 07 13.00 -0.1	LFF 92.02 332 eP 07 39.40 0.9	0.6s 22.55nm	5.5mb
1.0s 20.00nm	4.9mb	LPD 92.06 331 eP 07 39.40 0.6	0.4s 5.75nm
SLE 86.58 329 ePc 07 13.20 0.2	MEO 92.28 44 eP 07 40.30 0.3	LNO 93.03 42 eP 07 29.50 -13.7X	TUL 93.03 42 eP 07 43.70 0.3
SAX 86.62 328 ePc 07 13.80 0.3	LND 93.03 42 eP 07 29.50 -13.7X	1.3s 21.20nm	5.2mb
OSS 86.70 328 ePc 07 14.30 0.5	EPF 93.78 331 eP 07 46.80 0.0	0.8s 6.70nm	4.9mb
ZLA 86.84 329 ePc 07 14.60 0.3	TIC 126.56 313 PKP 13 33.50 0.3	KIC 126.61 313 PKP 13 33.40 0.2	LIC 126.89 313 PKP 13 34.00 0.2
LLS 87.06 328 ePc 07 15.60 0.0	ARE 147.17 64 ePKP 14 14.00 3.0X	ZOBO 149.48 60 PKP 14 16.50 1.5	1.0s 45.00nm
BSF 87.24 330 eP 07 16.00 -0.3	1.0s i 14 21.20	LPB 149.67 60 PKP 14 16.00 0.9	1.0s 100.00nm
DLE 87.25 340 eP 07 16.80 0.7	CNCB 149.94 60 PKP 14 16.00 0.4	CCH 151.63 59 PKP 14 25.70 7.9X	SIV 153.99 49 PKP 14 21.20 0.4
HAU 87.28 330 eP 07 16.10 -0.3	0.6s 21.20nm	0.8s 18.20nm	S.D. = 1.0 on 277 of 289 obs.
0.5s 3.65nm	4.6mb	S.D. = 0.5 on 8 of 8 obs.	JUN 26, 1990 22h 06m 06.60±6.20s
SAL 87.36 327 P 07 16.50 -0.2	37.876 N ±45.5km 25.598 E ±27.4km	DEPTH = 33.0km (normal)	DODECANESE ISLANDS (369)
DCN 87.41 341 eP 07 17.60 0.8	ML 2.0 (THE).	ALN 3.04 6 ePn 06 53.40 0.0	LIT 3.29 313 ePnd 06 57.40 0.4
ANMO 87.50 48 P 07 18.00 0.1	SOH 3.42 330 ePn 06 57.80	SRS 3.59 335 ePn 07 01.30 0.0	KNT 3.89 328 ePn 07 04.90 -0.6
1.0s 6.25nm	4.5mb	GRG 3.95 322 ePnc 07 06.30 -0.1	FNA 4.38 313 ePn 07 12.20 -0.3
ALQ 87.50 48 ePc 07 18.10 0.2	1.2s 15.63nm	4.9mb	IGT 4.44 293 ePn 07 13.40 0.0
MDI 87.59 327 P 07 17.00 -0.8	CNCB 149.94 60 PKP 14 16.00 0.4	CCH 151.63 59 PKP 14 25.70 7.9X	SIV 153.99 49 PKP 14 21.20 0.4
TMA 87.71 328 ePc 07 18.60 -0.1	0.8s 18.20nm	0.8s 14.28nm	18.20nm
RSM 87.73 324 P 07 19.50 1.0	0.8s i 14 21.20	(S)	
ARV 87.82 324 P 07 19.00 0.0	0.8s 6.70nm	4.9mb	
VAI 87.94 328 P 07 19.00 -0.5	0.8s 14.28nm	18.20nm	
SCH 87.98 15 ePc 07 20.20 0.6	0.8s 33.00nm	5.4mb	
SFI 88.02 325 P 07 21.00 1.1	88.12 325 P 07 21.50 0.8	LPB 149.67 60 PKP 14 16.00 0.9	1.0s 100.00nm
PGD 88.12 325 P 07 21.50 0.8	88.15 328 ePc 07 21.50 0.6	0.8s 6.70nm	4.9mb
MMK 88.15 328 ePc 07 21.50 0.6	88.20 325 P 07 21.00 0.0	0.8s 10.05nm	4.9mb
CRE 88.20 325 P 07 21.00 0.0	88.27 324 P 07 21.00 -0.3	89.11 329 eP 07 25.60 0.1	0.8s 14.80nm
ASS 88.27 324 P 07 21.00 -0.3	88.36 326 P 07 22.60 0.7	0.8s 25.60 0.1	5.1mb
MME 88.36 326 P 07 22.60 0.7	88.36 326 P 07 22.60 0.7	89.16 328 P 07 24.17 -1.4	4.8mb
DIX 88.36 329 ePc 07 22.40 0.5	88.43 322 P 07 22.50 0.4	89.18 331 eP 07 25.40 0.0	4.75nm
DUI 88.43 322 P 07 22.50 0.4	88.47 328 P 07 20.58 -1.7	0.5s 4.75nm	4.8mb
ORX 88.47 328 P 07 20.58 -1.7	88.47 328 P 07 21.50 -0.8	89.23 323 P 07 26.00 0.2	4.7mb
ORO 88.47 328 P 07 21.50 -0.8	88.49 327 P 07 22.60 0.3	FLN 89.26 335 eP 07 25.50 -0.2	0.5s 3.65nm
BOB 88.49 327 P 07 22.60 0.3	88.51 326 P 07 22.10 -0.3	LDF 89.27 334 eP 07 25.60 -0.2	0.6s 4.50nm
BDI 88.51 326 P 07 22.10 -0.3	88.70 323 P 07 24.00 0.8	SMF 89.39 331 eP 07 26.10 -0.3	0.6s 4.50nm
AZI 88.70 323 P 07 24.00 0.8	SDI 88.72 322 P 07 23.00 -0.4	89.46 331 eP 07 26.50 -0.2	0.5s 10.95nm
SDI 88.72 322 P 07 23.00 -0.4	SGO 88.80 321 P 07 24.00 0.3	FIN 89.48 327 P 07 25.09 -1.8	0.8s 10.95nm
PII 88.80 325 P 07 23.00 -0.7	PII 88.80 325 P 07 23.00 -0.7	BNI 89.49 328 P 07 27.40 0.3	0.8s 14.80nm
LOR 88.87 331 eP 07 23.60 -0.4	LOR 88.87 331 eP 07 23.60 -0.4	RRL 89.55 328 P 07 27.55 0.0	0.8s 14.80nm
0.7s 6.60nm	4.8mb	ROB 89.57 327 P 07 26.11 -1.3	0.8s 14.80nm
TDS 88.90 319 P 07 25.00 0.7	88.90 319 P 07 25.00 0.7	GRR 89.71 335 eP 07 28.00 0.2	0.8s 14.80nm
LSD 88.96 328 P 07 25.19 0.4	88.96 328 P 07 25.19 0.4	0.8s 28.00 0.2	5.1mb
LBF 89.06 331 eP 07 24.60 -0.3	89.06 331 eP 07 24.60 -0.3	PZZ 89.74 328 P 07 28.57 0.3	0.8s 30.00nm
PCP 89.07 327 P 07 24.47 -0.6	89.07 327 P 07 24.47 -0.6	ENR 89.82 327 P 07 26.32 -2.3	0.8s 20.00nm
LPL 89.10 329 eP 07 25.50 0.1	89.10 329 eP 07 25.50 0.1	STV 89.85 328 P 07 26.73 -2.0	0.8s 20.00nm
0.8s 10.05nm	4.9mb	BGF 89.85 331 eP 07 28.50 -0.1	0.8s 25.00nm
LPG 89.11 329 eP 07 25.60 0.1	0.8s 10.05nm	IMJ 89.86 327 P 07 27.65 -1.1	0.8s 25.00nm
0.8s 14.80nm	5.1mb	LPF 90.07 334 eP 07 30.10 0.6	0.8s 25.00nm
RSP 89.16 328 P 07 24.17 -1.4	89.16 328 P 07 24.17 -1.4		
SSF 89.18 331 eP 07 25.40 0.0	89.18 331 eP 07 25.40 0.0		
0.5s 4.75nm	4.8mb		
RDP 89.23 323 P 07 26.00 0.2	89.23 323 P 07 26.00 0.2		
FLN 89.26 335 eP 07 25.50 -0.2	89.26 335 eP 07 25.50 -0.2		
0.5s 3.65nm	4.7mb		
LDF 89.27 334 eP 07 25.60 -0.2	89.27 334 eP 07 25.60 -0.2		
SMF 89.39 331 eP 07 26.10 -0.3	89.39 331 eP 07 26.10 -0.3		
0.6s 4.50nm	4.7mb		
AVF 89.46 331 eP 07 26.50 -0.2	89.46 331 eP 07 26.50 -0.2		
0.5s 10.95nm	5.1mb		
FIN 89.48 327 P 07 25.09 -1.8	89.48 327 P 07 25.09 -1.8		
BNI 89.49 328 P 07 27.40 0.3	89.49 328 P 07 27.40 0.3		
RRL 89.55 328 P 07 27.55 0.0	89.55 328 P 07 27.55 0.0		
ROB 89.57 327 P 07 26.11 -1.3	89.57 327 P 07 26.11 -1.3		
GRR 89.71 335 eP 07 28.00 0.2	89.71 335 eP 07 28.00 0.2		
0.8s 14.80nm	5.1mb		
PZZ 89.74 328 P 07 28.57 0.3	89.74 328 P 07 28.57 0.3		
ENR 89.82 327 P 07 26.32 -2.3	89.82 327 P 07 26.32 -2.3		
STV 89.85 328 P 07 26.73 -2.0	89.85 328 P 07 26.73 -2.0		
BGF 89.85 331 eP 07 28.50 -0.1	89.85 331 eP 07 28.50 -0.1		
IMJ 89.86 327 P 07 27.65 -1.1	89.86 327 P 07 27.65 -1.1		
LPF 90.07 334 eP 07 30.10 0.6	90.07 334 eP 07 30.10 0.6		
0.8s 25.00nm	4.6mb		
0.8s 25.50nm	5.3mb		
90.10 327 eP 07 29.20 -0.6			
0.7s 11.00nm	5.0mb		
90.20 319 P 07 30.00 -0.3			
90.24 331 eP 07 30.70 0.3			
90.32 332 eP 07 30.90 0.1			
0.8s 6.70nm	4.8mb		
90.41 326 eP 07 30.90 -0.5			
1.0s 12.00nm	4.9mb		
90.62 332 eP 07 32.10 0.0			
0.8s 17.45nm	5.2mb		
90.69 327 eP 07 32.10 -0.4			
0.8s 12.10nm	5.0mb		
90.90 328 eP 07 33.40 0.0			
0.8s 18.80nm	5.3mb		
90.93 327 eP 07 33.40 -0.2			
0.9s 19.65nm	5.2mb		
90.96 333 eP 07 34.30 0.6			
0.8s 20.15nm	5.3mb		
91.41 331 eP 07 36.40 0.6			
0.9s 14.75nm	5.1mb		
91.51 331 eP 07 36.90 0.6			
0.9s 18.00nm	5.2mb		
92.02 332 eP 07 39.40 0.9			
0.6s 22.55nm	5.5mb		
92.06 331 eP 07 39.40 0.6			
0.4s 5.75nm	5.1mb		
92.28 44 eP 07 40.30 0.3			
93.03 42 eP 07 29.50 -13.7X			
93.03 42 eP 07 43.70 0.3			
1.3s 21.20nm	5.2mb		
93.78 331 eP 07 46.80 0.0			
0.8s 6.70nm	4.9mb		
126.56 313 PKP 13 33.50 0.3			
126.61 313 PKP 13 33.40 0.2			
126.89 313 PKP 13 34.00 0.2			
147.17 64 ePKP 14 14.00 3.0X			
149.48 60 PKP 14 16.50 1.5			
1.0s 45.00nm			
i 14 21.20			
149.67 60 PKP 14 16.00 0.9			
1.0s 100.00nm			
i 14 21.00			
149.94 60 PKP 14 16.00 0.4			
151.63 59 PKP 14 25.70 7.9X			
153.99 49 PKP 14 21.20 0.4			
i 14 28.90			
(S) 18 20.00			
S.D. = 1.0 on 277 of 289 obs.			
JUN 26, 1990 22h 06m 06.60±6.20s			
37.876 N ±45.5km 25.598 E ±27.4km			
DEPTH = 33.0km (normal)			
DODECANESE ISLANDS (369)			
ML 2.0 (THE).			
ALN 3.04 6 ePn 06 53.40 0.0			
LIT 3.29 313 ePnd 06 57.40 0.4			
SOH 3.42 330 ePn 06 57.80			
SRS 3.59 335 ePn 07 01.30 0.0			
KNT 3.89 328 ePn 07 04.90 -0.6			
GRG 3.95 322 ePnc 07 06.30 -0.1			
FNA 4.38 313 ePn 07 12.20 -0.3			
IGT 4.44 293 ePn 07 13.40 0.0			
S.D. = 0.5 on 8 of 8 obs.			
JUN 26, 1990 23h 34m 38.85±0.43s			
16.447 S ±11.1km 176.314 W ±5.8km			
DEPTH = 390.9 ±4.4 km			
4.6mb (12 obs.)			
FIJI ISLANDS REGION (181)			
NDE 4.19 267 eP 35 52.20 -0.6			
KRO 4.20 258 iPc 35 52.70 -0.2			
MBU 4.79 263 eP 35 58.50 -0.3			
OVA 4.85 255 eP 35 59.50 0.1			
VUN 5.23 252 iPd 36 03.90 0.5			
SVA 5.26 251 iPd 36 04.20 0.5			
SGE 5.63 258 ePd 36 08.40 0.6			
DZM 17.21 248 iPc 38 16.60 -0.3			
PMO 27.38 91 iP 39 52.60 0.4			
0.8s 30.00nm	4.7mb		
27.61 92 iP 39 54.20 -0.1			
0.8s 20.00nm	4.5mb		
27.65 91 iP 39 52.90 -1.7			
0.8s 25.00nm	4.6mb		
27.85 91 iP 39 56.60 0.2			
0.8s 25.00nm	4.6mb		
36.18 232 eP 41 08.20 0.6			
36.29 234 eP 41 07.80 -0.8			
39.64 230 eP 41 37.00 1.0			
41.09 240 iPd 41 48.50 0.7			

SFI 151.75 347 PKP 53 49.50 7.3X
 LPO 151.77 4 ePKP 53 49.30 7.1X
 0.6s 4.50nm
 PGD 151.82 348 PKP 53 51.00 8.4X
 ARV 151.91 346 PKP 53 50.50 8.0X
 SDI 153.36 343 PKP 53 52.00 7.4X
 S.D. = 0.7 on 40 of 75 obs.

% JUN 27, 1990 00h 49m 30.65±0.70s
 43.557 N ± 6.7km 12.577 E ± 6.3km
 DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)

ARV 0.27 102 Pc 49 36.50 0.1
 eSg 49 41.50
 RSM 0.38 346 Pd 49 38.50 0.0
 CRE 0.46 279 P 49 40.50 0.5
 ASS 0.49 173 P 49 40.50 -0.1
 eSg 49 49.50
 SFI 0.64 305 P 49 43.50 0.1
 eSg 49 53.50
 PGD 0.70 297 Pd 49 44.00 -0.6
 eSg 49 54.50
 S.D. = 0.4 on 6 of 6 obs.

& JUN 27, 1990 01h 14m 39.71s
 63.136 N 150.617 W
 DEPTH = 121.2km

CENTRAL ALASKA (1)

<AGS-P>

KTH 0.44 342 iP 14 57.63 -0.2
 iS 15 10.79
 HUR 0.47 109 iP 14 57.40 -0.5
 eS 15 11.08
 CUT 0.75 168 iP 14 59.63 -0.2
 Sn 15 14.60
 MCK 0.96 51 iP 15 01.33 -0.5
 SKT 1.23 200 iP 15 04.24 -0.4
 iS 15 23.52
 PWA 1.53 167 eP 15 07.60 -0.3
 GHO 1.58 149 iP 15 08.08 -0.5
 eS 15 30.44
 NEA 1.60 25 iP 15 07.63 -1.1
 iS 15 27.99
 SUA 1.68 182 eP 15 09.63 -0.2
 eS 15 33.53
 PMR 1.70 155 iPd 15 08.90 -1.0
 PLRM 1.70 155 iP 15 08.89 -1.0
 eS 15 32.10
 SML 1.70 140 iP 15 09.08 -1.0
 eS 15 32.54
 WRH 1.75 39 iP 15 09.70 -0.8
 NCG 1.88 203 eP 15 11.86 -0.5
 CGLM 1.95 200 eP 15 13.16 0.0
 CCB 1.96 38 iP 15 12.20 -1.0
 PMS 1.96 165 eP 15 12.50 -0.7
 SCM 2.01 129 eP 15 12.51 -1.4
 iS 15 39.57
 SPV 2.07 200 eP 15 15.06 0.4
 FBA 2.16 34 iP 15 14.90 -0.8
 TOA 2.30 115 eP 15 17.30 -0.3
 GLM 2.34 36 iP 15 17.05 -1.0
 PAX 2.35 92 iP 15 17.54 -0.7
 SDG 2.41 102 eP 15 18.02 -0.9
 TTA 2.47 268 iPd 15 19.00 -0.8
 SLKM 2.64 176 eP 15 21.10 -0.9
 RDT 2.71 199 eP 15 23.33 0.4
 KLU 2.74 125 eP 15 21.53 -1.9
 GLI 2.81 142 iP 15 22.31 -1.8
 VZV 2.83 136 eP 15 22.34 -2.1
 VLZ 2.85 133 eP 15 22.34 -2.3
 RED 2.91 202 iP 15 26.34 0.7
 DOT 2.99 77 iP 15 25.24 -1.4
 SVW 3.11 231 eP 15 27.70 -0.5
 NNL 3.12 186 eP 15 28.71 0.4
 IMA 3.23 337 iPd 15 28.50 -1.3
 CNPM 3.64 185 eP 15 34.27 -1.0
 BALM 4.42 115 eP 15 43.75 -2.2
 DWY 5.08 75 P 15 52.80 -2.0
 39 obs. associated

JUN 27, 1990 01h 18m 28.87±0.92s
 0.120 N ± 9.1km 123.556 E ± 11.5km
 DEPTH = 181.0 ± 11.5 km
 4.8mb (8 obs.)
 MINAHASSA PENINSULA (265)

MNI 1.84 44 ePc 19 03.50 -1.1
 eS 19 34.30
 KKM 9.40 309 ePc 20 44.00 2.4
 0.5s 94.70nm
 MTN 14.91 150 eP 21 52.00 -0.1
 WB5 22.52 153 eP 23 13.90 -0.3
 e 27 06.80
 WRA 22.57 153 Pc 23 14.80 0.1
 0.4s 11.10nm
 IPM 22.94 281 ePd 23 19.60 1.3
 1.0s 69.30nm
 QIZ 23.11 325 P 23 20.30 0.3
 NANU 23.86 199 eP 23 25.40 -1.7
 0.4s 9.00nm
 SNG 23.93 288 eP 23 27.50 -0.3
 ASPA 25.69 158 eP 23 43.70 -0.4
 0.9s 18.00nm
 OIS 25.86 144 iPd 23 45.70 0.0
 BDT 29.56 306 eP 24 18.10 -0.8
 CHG 30.48 309 iPd 24 26.80 -0.2
 0.9s 17.23nm
 GYA 30.83 329 P 24 30.40 0.3
 CD2 35.93 330 P 25 14.00 0.3
 STK 36.12 153 iPd 25 15.40 0.2
 0.6s 18.00nm
 eS 36 49.30

TIY 38.79 346 P 25 38.00 0.4
 BRS 39.19 137 iPd 25 41.80 0.8
 BWA 41.51 148 eP 26 02.10 2.2
 CAN 42.50 149 eP 26 08.00 0.0
 GTA 44.73 334 P 26 26.40 0.5
 0.8s 13.00nm
 GUN 45.46 311 P 26 31.40 -0.7
 PKI 45.65 310 P 26 32.40 -1.2
 DMN 45.90 310 P 26 34.60 -0.9
 GKN 46.45 310 P 26 38.40 -1.4
 KRI 93.81 253 iPc 31 20.50 -6.8X
 BUL 94.68 250 iPc 31 24.90 -6.4X
 S.D. = 1.1 on 25 of 27 obs.

JUN 27, 1990 02h 00m 45.82±0.23s
 52.364 N ± 5.9km 173.953 W ± 3.3km
 DEPTH = 33.0km (normal)
 4.9mb (43 obs.) 5.1MsZ (21 obs.)
 ANDREANOF ISLANDS, ALEUTIAN IS. (7)
 ML 5.1 (PMR). Ms 5.0 (BRK). Felt
 (IV) on Adak and Atka.
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 14S, 31C
 Centroid Location:
 Origin Time 02:00:46.9 0.6
 Lat 52.47N 0.08 Lon 174.26W 0.10
 Dep 15.0 FIX Half-duration 1.9
 Moment Tensor; Scale 10¹⁷ Nm
 Mrr=-0.19 0.06 Mtt=0.18 0.09
 Mff=0.00 0.06 Mrt=-0.07 0.25
 Mrf=-0.50 0.19 Mtf=-1.21 0.06
 Principal Axes:
 T Vol=1.36 Plg=11 Azm=45
 N -0.08 66 161
 P -1.27 21 310
 Best Double Couple: Mo=1.3*10¹⁷
 NP1: Strike=89 Dip=67 Slip=-173
 NP2: 356 83 -23

ADK 1.75 255 iPd 01 11.60 -2.7
 SMY 7.30 278 eP 02 27.70 -5.0X
 SDN 8.50 64 eP 02 49.00 -0.4
 SVW 13.29 42 eP 03 54.90 0.3
 KDC 13.40 58 eP 03 55.20 -0.7
 TTA 14.23 35 eP 04 06.60 -0.3
 PMR 16.28 46 eP 04 34.30 1.0
 1.1s 116.10nm
 IMA 17.09 29 eP 04 44.40 0.9
 TOA 17.78 46 eP 04 52.60 0.6
 FBA 18.34 37 eP 04 59.10 0.2
 SIT 22.58 63 eP 05 44.00 -0.2
 INK 24.93 35 ePc 06 06.00 -0.8
 0.9s 90.00nm
 MBC 31.57 22 ePc 07 07.00 0.2
 0.6s 22.00nm
 YKA 32.35 48 eP 07 14.10 0.3
 0.9s 3.30nm
 GMW 32.70 78 eP 07 17.50 0.5
 BMW 32.94 80 eP 07 19.80 0.6
 HON 33.35 152 P 07 30.00 7.2X

Z 20s 0.96um 4.5MsZ
 LON 33.66 78 eP 07 25.50 0.1
 PNT 33.77 73 eP 07 25.00 -1.3
 0.6s 18.00nm
 EDM 35.69 64 ePc 07 41.50 -1.2
 NEW 35.72 73 eP 07 42.30 -0.7
 0.9s 35.09nm
 KAKJ 35.92 262 eP 07 46.00 1.3
 NIIJ 35.96 264 eP 07 42.90 -2.1
 LBFM 36.51 86 eP 07 51.00 1.0
 WDC 36.57 88 eP 07 51.00 0.8
 CHJJ 36.74 263 eP 07 49.60 -2.0
 MAT 36.89 264 eP 07 50.00 (-2.9)
 0.8s 29.85nm
 Z 20s 1.06um 4.6MsZ
 (S) 13 32.00
 MTMJ 37.11 264 eP 07 55.10 0.2
 MIN 37.28 87 eP 07 57.40 1.1
 IIDJ 37.77 263 eP 08 00.10 -0.3
 ORV 37.82 88 ePc 08 01.00 0.3
 SES 38.22 67 eP 08 03.00 -1.0
 0.8s 33.00nm
 BRK 38.40 91 eP 08 06.00 0.5
 BKS 38.41 91 eP 08 06.50 0.8
 0.8s 63.00nm
 Z 20s 1.50um 4.8MsZ
 N 20s 1.40um
 E 20s 1.90um
 e(S) 14 02.40
 eLR 17 12.00
 MHC 39.11 91 eP 08 12.60 0.9
 ARN 39.18 91 eP 08 12.50 0.4
 CMB 39.45 89 eP 08 15.50 1.1
 LRM 39.71 74 eP 08 16.30 -0.4
 KVN 40.21 86 eP 08 20.70 -0.2
 CN2 40.29 283 eP 08 26.00 4.8X
 Z 18s 2.90um 5.2MsZ
 N 17s 2.20um
 E 17s 1.80um
 PRI 40.49 92 eP 08 24.00 1.0
 FFC 41.11 57 eP 08 27.00 -0.7
 0.6s 7.00nm
 TNP 41.36 87 eP 08 30.50 0.2
 SNY 42.55 281 eP 08 40.00 0.3
 Z 18s 2.00um 5.0MsZ
 N 13s 0.70um
 E 13s 0.70um
 esP 09 00.00
 S 15 00.00
 SS 18 09.00
 CLC 42.58 90 eP 08 41.00 0.9
 SHNJ 42.83 267 P 08 40.80 -1.3
 BW06 43.15 76 eP 08 43.80 -1.1
 1.0s 55.00nm
 SBB 43.19 91 eP 08 46.00 0.9
 MWC 43.35 92 eP 08 47.00 0.4
 GSC 43.40 90 eP 08 47.00 0.1
 RVR 43.93 92 eP 08 56.00 5.0X
 KUMJ 44.09 266 eP 08 52.20 -0.1
 TPC 44.66 90 eP 08 58.00 0.9
 PLM 44.67 92 eP 08 58.00 0.7
 KAGJ 44.99 264 eP 08 58.80 -0.8
 BAR 45.25 92 eP 09 03.00 1.3
 RSSD 45.60 71 eP 09 03.00 -1.6
 GLA 46.13 91 eP 09 09.00 0.4
 GOL 47.52 77 P 09 25.00 5.1X
 Z 20s 1.65um 5.0MsZ
 GLD 47.58 77 eP 09 20.00 -0.2
 1.2s 70.71nm
 Z 20s 3.10um 5.3MsZ
 BJI 48.07 284 eP 09 28.00 4.2X
 1.0s 8.00nm
 Z 19s 1.74um 5.1MsZ
 ANMO 49.97 82 eP 09 38.00 -0.7
 ALQ 49.97 82 eP 09 37.20 -1.5
 1.0s 11.25nm
 Z 18s 1.49um 5.0MsZ
 DAG 50.17 7 iPd 09 42.40 2.9
 0.9s 15.13nm
 Z 20s 2.13um 5.1MsZ
 N 19s 0.69um
 E 18s 3.16um
 HHC 50.27 288 eP 09 42.00 1.1
 Z 24s 1.40um 4.9MsZ
 N 14s 1.10um
 E 14s 1.10um
 es 16 54.00

27d 02h			E 16s 0.40um			20.772 S ±11.8km 68.470 W ±10.1km		
PJG	50.71	236 eP	09 41.10	-3.2X	ZST	79.38	352 e(P)	12 51.80 2.3
SSE	50.99	272 P	09 50.50	4.2X				13 15.40
	0.8s	8.00nm		4.7mb	GRR	79.45	5 eP	12 49.40 -0.5
Z	20s	0.90um		4.8msz		0.9s	6.55nm	4.6mb
N	14s	0.70um			LPF	79.80	5 eP	12 51.50 -0.3
BTO	51.33	289 P	09 08.00	1.1		0.9s	6.55nm	4.6mb
			09 50.00		HAU	80.01	360 eP	12 52.50 -0.4
N	16s	2.00um				0.6s	4.50nm	4.6mb
			10 05.00		BSF	80.18	359 eP	12 53.20 -0.8
			17 14.00			0.6s	4.50nm	4.6mb
NJ2	51.76	275 eP	09 54.00	1.9	LOR	80.73	2 eP	12 56.60 -0.2
Z	18s	0.45um		4.5msz		0.7s	4.40nm	4.6mb
TIY	51.80	285 eP	09 57.80	5.3X	LBF	81.02	1 eP	12 57.80 -0.5
Z	24s	1.80um		5.0mszX		0.7s	2.20nm	4.3mb
N	17s	2.00um			AVF	81.20	2 eP	12 58.80 -0.4
MEO	54.82	77 e(P)	10 12.50	-2.3		0.8s	4.05nm	4.5mb
TUL	55.71	74 eP	10 19.50	-1.7	FVI	81.25	355 P	13 03.50 4.1X
	1.0s	7.70nm		4.7mb	MFF	81.27	4 eP	12 59.40 -0.2
Z	18s	1.67um		5.2msz		0.9s	6.55nm	4.6mb
N	17s	2.00um			SMF	81.35	2 eP	12 59.80 -0.2
XAN	56.39	284 P	10 26.50	0.4		0.8s	5.35nm	4.6mb
N	14s	0.70um			TCF	81.67	3 eP	13 01.40 -0.3
E	15s	1.20um				0.7s	2.20nm	4.3mb
KEV	57.24	351 iP	10 36.90	5.3X	LSF	81.69	3 eP	13 01.60 -0.2
	0.7s	16.00nm		5.2mb		0.7s	7.70nm	4.8mb
SCH	57.36	41 eP	10 30.00	-2.7X	MAF	81.75	2 eP	13 02.20 0.1
UYO	57.71	75 e(P)	10 33.30	-2.1		0.6s	3.60nm	4.6mb
GTA	57.95	294 eP	10 38.00	0.8	VAI	82.12	358 P	13 08.00 4.0X
Z	16s	2.04um		5.3mszX	LPG	82.52	360 eP	13 06.10 -0.4
E	14s	1.42um				0.7s	3.30nm	4.5mb
LZH	57.95	289 eP	10 36.50	-0.8	BNI	82.96	360 P	13 12.50 3.9X
	2.5s	53.00nm		5.2mb	QIS	83.09	223 eP	13 09.50 0.2
Z	20s	1.90um		5.2msz	BOB	83.21	358 P	13 10.00 0.2
N	17s	1.80um			SFI	83.96	356 P	13 17.00 3.5X
E	17s	1.90um			PGD	84.02	356 P	13 15.00 1.0
SOD	59.59	351 eP	10 48.00	-0.1	SBF	84.15	359 eP	13 14.40 -0.1
WMO	61.28	305 eP	10 58.00	-2.0		0.8s	5.35nm	4.8mb
Z	18s	1.50um		5.2msz	ARV	84.33	355 P	13 17.00 1.6
N	15s	0.90um			FRF	84.45	360 eP	13 15.80 -0.2
E	16s	1.00um				0.9s	6.55nm	4.8mb
RSNY	61.29	54 eP	10 59.50	-0.5	LMR	84.68	360 eP	13 17.30 0.2
Z	20s	4.29um		5.6msz		0.9s	6.55nm	4.8mb
CD2	61.68	285 eP	11 04.00	1.2	ASS	84.77	355 P	13 19.50 1.8
Z	18s	1.00um		5.0msz	WB5	84.79	228 eP	13 15.80 -1.1
RSCP	61.84	68 eP	11 00.50	-3.4	WRA	84.86	228 P	13 16.10 -2.1
Z	22s	2.65um		5.4msz		0.9s	7.90nm	4.9mb
GYA	63.17	279 P	11 14.20	1.3	RMQ	85.02	213 eP	13 19.00 0.1
BLA	63.54	63 eP	11 13.10	-2.0	PGF	85.43	358 eP	13 20.80 -0.3
	0.9s	21.85nm		5.3mb		0.9s	9.85nm	5.0mb
Z	20s	1.28um		5.1msz	VAY	85.60	348 eP	13 21.00 -0.8
SUF	64.17	350 eP	11 18.20	-0.6	AZI	85.81	354 P	13 27.00 4.2X
	0.8s	10.50nm		5.0mb	OHR	86.03	349 eP	13 21.50 -2.5
NUR	66.49	350 eP	11 37.00	3.3X	SDI	86.07	354 P	13 24.00 -0.2
KMI	66.53	281 eP	11 36.00	1.3	ASPA	88.30	226 eP	13 35.40 0.4
Z	20s	0.80um		4.9msz		1.1s	39.00nm	5.6mb
			11 51.50	56kmX	SLR	148.55	319 ePKP	20 20.00 -6.9X
			20 22.00			1.5s	69.44nm	
			21 26.00		MAW	149.11	219 iPKP	20 29.90 3.6X
NB2	66.87	357 P	11 35.70	-0.5	SEK	151.11	318 ePKP	20 39.00 8.2X
	0.7s	9.20nm		5.0mb		0.9s	8.40nm	
HFS	67.69	356 eP	11 40.00	-1.2	BLF	152.39	319 iPKPd	20 43.00 10.4X
	0.7s	7.50nm		4.9mb				S.D. = 1.2 on 117 of 143 obs.
Z	17s	0.72um		5.0mszX				
			11 44.40	14kmX				
			esP	11 47.00				
			ePcP	12 03.50				
			LR	38 06.00				
UPP	67.74	354 iP	11 44.80	3.2X				
RUV	71.10	153 eP	12 05.00	2.4				
	1.1s	20.00nm		5.1mb				
GUN	74.22	295 P	12 23.20	1.7				
PKI	74.74	295 P	12 26.40	1.9				
GKN	74.83	296 P	12 24.00	-0.8				
DZM	76.07	199 iPc	12 33.00	1.4				
CLL	76.54	356 eP	12 36.00	2.2				
KSP	76.80	353 eP	12 38.50	3.1X				
BRG	76.92	355 eP	12 35.80	-0.2				
			12 41.00					
PRU	77.77	354 eP	12 42.50	1.8				
			13 09.50					
DOU	77.91	1 P	12 45.80	4.4X				
			22 37.00					
SPC	78.11	351 eP	12 46.50	3.7X				
GRF	78.23	357 eP	12 43.00	-0.2				
Z	19s	0.50um		4.9msz				
KHC	78.68	355 P	12 46.00	0.2				
Z	16s	0.90um		5.2mszX				
N	16s	0.50um						

CHILE-BOLIVIA BORDER REGION (124)			
ANT	3.43	211 iP	14 45.50 0.0
CNCB	3.97	7 iPc	14 53.20 -0.1
CCH	4.03	34 eP	14 57.30 3.4X
LPB	4.23	5 P	14 56.90 0.1
	1.0s	180.00nm	
SIV	8.48	57 iPc	15 54.20 0.0
YKA	90.64	340 eP	26 41.80 0.0
	0.8s	1.30nm	4.1mb
S.D. = 0.2 on 5 of 6 obs.			
JUN 27, 1990 03h 56m 20.54 ± 0.27s			
37.007 N ± 8.9km 49.785 E ± 4.3km			
DEPTH = 10.0km (geophysicist)			
4.8mb (40 obs.)			
CASPIAN SEA (338)			
TEH	1.81	134 iPd	56 53.30 1.2
TAB	2.95	292 eP	57 11.00 2.6
MAIO	7.84	92 iPnc	58 17.00 -0.4
	0.8s	25.99nm	5.5mb
		eSn	59 51.00
BBTK	13.65	287 eP	59 39.00 2.4
ALT	15.64	283 eP	00 04.00 1.3
QUE	15.83	110 eP	00 07.30 2.1
HRT	16.11	290 eP	00 10.00 1.3
IZI	16.21	288 eP	00 11.00 1.1
KDZ	19.39	291 iPc	00 51.00 1.6
MLR	19.78	303 eP	00 57.00 3.2X
RZN	19.92	291 iPc	00 57.00 1.6
CMP	20.33	302 ePc	00 41.00 -18.5X
MMB	20.65	291 iPc	01 03.00 0.2
VTS	21.12	294 iP	01 09.00 1.2
VAY	21.50	290 eP	01 14.00 2.6
OHR	22.83	289 eP	01 26.50 1.7
NDI	24.43	102 eP	01 41.50 1.1
SPC	24.60	309 eP	01 44.10 2.0
KRA	25.07	311 eP	01 46.10 -0.3
BRT	25.55	289 P	01 50.00 -1.0
ZST	26.33	305 eP	02 01.60 3.4X
		e	02 10.20
SOI	26.69	283 P	01 59.00 -2.5
SGO	27.01	288 P	02 03.00 -1.4
ATN	27.14	283 P	02 05.50 -0.1
KSP	27.53	311 eP	02 10.00 0.9
DUI	27.59	291 P	02 10.40 0.6
SDI	28.07	291 P	02 13.00 -1.1
AZI	28.34	291 P	02 17.50 1.0
NUR	28.43	334 eP	02 18.00 0.9
KHC	28.82	306 P	02 21.50 0.8
ASS	28.89	294 P	02 23.00 1.5
FVI	28.97	301 P	02 22.00 -0.1
CRE	29.41	295 P	02 26.80 0.6
SFI	29.48	295 P	02 28.00 1.3
SUF	29.56	338 iP	02 27.90 0.7
	0.7s	13.30nm	4.9mb
PGD	29.57	295 P	02 28.40 0.6
CLL	29.66	311 iPc	02 29.10 0.9
	1.4s	23.00nm	4.8mb
SOTA	30.11	302 iPc	02 32.00 -0.4
	0.6s	28.40nm	5.3mb
		i	02 35.60
BDI	30.39	296 P	02 35.00 0.1
GRF	30.43	307 eP	02 35.50 0.3
PII	30.44	295 P	02 34.50 -0.7
GKN	30.60	97 P	02 37.00 0.0
OSS	30.79	301 ePc	02 38.80 0.3
MDI	31.04	299 P	02 40.00 -0.5
DMN	31.14	97 P	02 41.60 -0.3
BOB	31.21	297 P	02 42.50 0.4
SAX	31.37	302 ePc	02 43.30 -0.5
PKI	31.40	97 P	02 44.20 -0.1
LLS	31.59	301 ePc	02 44.60 -1.0
PGF	31.60	293 eP	02 45.10 -0.6
	0.7s	16.55nm	5.1mb
GUN	31.62	96 P	02 46.20 -0.1
TMA	31.64	300 ePc	02 45.60 -0.4
VAI	31.70	299 P	02 45.50 -0.8
ORO	32.25	299 P	02 48.00 -3.3X
MMK	32.27	300 ePc	02 50.30 -1.3
HFS	32.58	327 eP	02 53.80 0.0
	0.5s	7.80nm	4.9mb
Z	14s	0.04um	3.3mszX

JUN 27, 1990 02h 57m 08.53 ± 0.78s
 40.251 N ±10.8km 25.145 E ± 4.8km
 DEPTH = 5.7 ± 4.9 km
 AEGEAN SEA (365)
 ML 3.0 (THE).
 EZN 1.00 115 iPg 57 27.30 -0.6
 1.5g 57 41.80
 SRS 1.46 307 ePbd 57 35.80 -0.5
 eSb 57 58.00
 RZN 1.47 347 eP 57 36.00 0.2
 THE 1.71 284 ePn 57 39.50 0.5
 MMB 1.71 322 ePd 57 39.00 -0.1
 KNT 1.94 299 ePn

27d 05h

Table with columns: Station ID, Time, Lat, Long, Depth, S.D., and other parameters. Includes stations like FBA, IMA, XAN, CHG, SES, MEO, INK, YKA, MAIO, BUL, KRI, LSZ, SUF, NB2, HFS, Z, UQSK, BSD, LWI, EKA, DCN, DLE, WIT, KRA, KSP, BBTk, HRI, VRI, SPC, CLL, WTS, BRG, AYN, JVI, MLR, MOX, PRU, PRNI, CMP, HQL, GPA, MBH, BADA, ENN, TNS, SRO, BUD, GRF, ZST, ALT, KHC, WET, and DOU.

Table with columns: Station ID, Time, Lat, Long, Depth, S.D., and other parameters. Includes stations like BCK, SOP, KHL, KDZ, CDF, RZN, VTS, MMB, FVI, LJU, VOY, TRI, ORO, BOB, BNI, KIC, TUNG, VC1, GGP, OTO, QUR, GECU, CAYA, COTA, NNA, LPB, CNCB, SIV, VAM, APE, KSL, VLI, ITM, BCK, PRNI, CFA, RTLL, RTCV, ZON, RTRS, CHCH, CCH, CNCB, LPB, SIV, and LGC.

Table with columns: Station ID, Time, Lat, Long, Depth, S.D., and other parameters. Includes stations like LPL, BNI, LSD, RRL, RSP, PZZ, ORX, DOI, STV, ENR, ZON, RTCV, RTBS, RTLL, CFA, RTRS, IMI, ENR, STV, ROB, FIN, PZZ, CUT, SKT, HUR, KTH, SUA, PWA, NCG, CGLM, CRP, GHO, SPU, PLRM, PMR, PMS, SML, and MCK.

Table with columns for station code, time, and coordinates. Includes stations like SCM, RDT, SLKM, TTA, RED, NEA, TOA, WRH, NNL, SVW, SEW, GLI, CCB, SDG, VZW, PAX, VLZ, KLU, FBA, DMW, CNPM, GLM, DOT, IMA, TGL, BALM, INK.

43 obs. associated

% JUN 27, 1990 09h 06m 09.07± 1.15s
36.682 N ± 6.6km 6.128 W ± 9.9km
DEPTH = 10.0km (geophysicist)
STRAIT OF GIBRALTAR (385)
mbLg 2.7 (MDD). Felt (III) at
Jerez and Puerto Santa Maria,
Spain.

Table with columns for station code, time, and coordinates. Includes stations like GIBL, CNIL, ALJ, EJIF, PLAT, OJEN, EPRU, EVAL, EHOR.

S.D. = 1.3 on 8 of 9 obs.

* JUN 27, 1990 09h 08m 02.26± 0.80s
32.611 S ± 14.6km 69.821 W ± 15.2km
DEPTH = 10.0km (geophysicist)
MENDOZA PROVINCE, ARGENTINA (139)

Table with columns for station code, time, and coordinates. Includes stations like PEL, RTBS, RTCV, ZON, CHCH, CFA, RTLL, RTRS.

S.D. = 1.2 an 7 of 8 obs.

JUN 27, 1990 09h 20m 37.40± 0.38s
51.414 N ± 10.6km 178.883 E ± 4.1km
DEPTH = 42.3km (8 depth phases)
4.6mb (10 obs.)
RAT ISLANDS, ALEUTIAN ISLANDS (6)

Table with columns for station code, time, and coordinates. Includes stations like ADK, SMY, TTA, PMR, IMA, FBA, INK, MBC.

Table with columns for station code, time, and coordinates. Includes stations like CN2, YKA, SNY, EDM, NEW, LBFM, ORV, SES, ARN, KVN, TNP, HHC, SSE, BTO, BW06, TIY, RSSD, PV09, LZH, GTA, ANMO, ALO, CD2, SCH, SUF, GUN, PKI, GKN, DMN, QUE, WRA, GBA, SLR, SEK, BLF, FRS, HVD.

S.D. = 0.9 on 40 of 45 obs.

* JUN 27, 1990 12h 07m 56.86± 2.95s
25.146 S ± 14.9km 177.373 W ± 12.1km
DEPTH = 143.4 ± 24.2 km
4.9mb (12 obs.)
SOUTH OF FIJI ISLANDS (171)

Table with columns for station code, time, and coordinates. Includes stations like VUN, DZM, RMO, CTA, QIS, ASPA, WB5, WRA, WARB, NANU, SPA, ADK, SDN, CMB, ORV, WDC, GLA.

Table with columns for station code, time, and coordinates. Includes stations like MIN, LBFM, TNP, KVN, KDC, PMR, TTA, ALO, ANMO, PNT, TOA, BW06, FBA, IMA, SES, INK, KOD, CIR, BUL, NB2, UPP, HFS, EKA, ADI, JVI, PRNI, DLE, MBH, KRA, WIT, KSP, SPC, MLR, CLL, BRG, WTS, PRU, BCOA, KHC, EVV, OXX, SCX, LVVM, TPX, IIT, PPM.

S.D. = 0.9 on 34 of 57 obs.

* JUN 27, 1990 12h 17m 22.39± 1.15s
17.046 N ± 17.5km 95.057 W ± 8.9km
DEPTH = 33.0km (normal)
OAXACA, MEXICO (60)
Felt on the Isthmus of
Tehuantepec.

27d 12h

(S) 18 58.91
 III 4.41 288 iP 18 27.86 -1.1
 ACX 4.60 269 (P) 18 18.95 -12.5X
 (S) 18 51.48
 IIJ 5.18 302 (P) 18 40.28 0.1
 S.D. = 1.2 on 7 of 10 obs.

* JUN 27, 1990 13h 04m 09.07 ± 2.44s
 48.555 N ± 9.2km 8.241 E ± 19.3km
 DEPTH = 10.0km (geophysicist)
 GERMANY (543)
 MD 2.2 (STR).

GWF 0.59 316 Pg 04 21.05 0.0
 WLS 0.61 257 Pg 04 21.57 0.2
 Sg 04 31.60
 CDF 0.66 258 Pg 04 21.91 -0.3
 FEL 0.70 193 Pg 04 22.86 -0.1
 MOF 1.02 227 Pg 04 28.65 0.2
 S.D. = 0.3 on 5 of 5 obs.

& JUN 27, 1990 15h 47m 53.62s
 63.256 N 150.488 W
 DEPTH = 8.6km
 CENTRAL ALASKA (1)
 <AGS-P>

KTH 0.36 327 iP 48 00.54 -0.4
 eS 48 05.50
 HUR 0.48 125 eP 48 02.74 -0.5
 eS 48 09.09
 CUT 0.86 173 iP 48 09.97 -0.3
 eS 48 21.73
 SKT 1.37 201 iP 48 18.42 -0.5
 Sn 48 39.01
 PWA 1.64 170 eP 48 21.80 -0.9
 GH0 1.66 153 eP 48 22.44 -0.6
 SML 1.76 145 eP 48 23.43 -1.2
 PLRM 1.79 159 iP 48 24.30 -0.5
 SUA 1.80 184 eP 48 25.69 0.4
 NCG 2.02 203 eP 48 28.59 0.3
 PMS 2.07 167 iP 48 28.64 -0.3
 11 obs. associated

& JUN 27, 1990 15h 52m 50.10s
 36.652 N 121.288 W
 DEPTH = 5.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 2.7 (BRK).

SAO 0.17 312 iPc 52 53.50 -0.1
 LLA 0.28 97 iPc 52 55.70 -0.1
 PRS 0.33 192 iPd 52 56.70 0.0
 GCC 0.68 304 ePc 53 03.10 -0.6
 PRI 0.72 135 ePd 53 04.90 0.5
 ARN 0.72 344 eP 53 04.30 -0.3
 MHC 0.74 338 iPd 53 05.20 0.2
 IS 53 18.20
 PHAM 1.09 138 eP 53 10.50 -0.5
 PKEM 1.12 121 eP 53 11.50 -0.1
 PCC 1.22 314 ePd 53 13.20 0.0
 CMB 1.56 27 ePc 53 17.70 -0.8
 eS 53 37.30
 BCH 1.76 146 eP 53 20.20 -1.3
 KVN 3.48 46 eP 53 52.50 6.3
 TNP 3.54 65 eP 53 50.50 3.4
 14 obs. associated

* JUN 27, 1990 16h 20m 32.68 ± 1.14s
 18.711 N ± 10.5km 66.745 W ± 11.1km
 DEPTH = 75.0 ± 8.7 km
 PUERTO RICO REGION (90)

PORP 0.66 171 P 20 48.00 0.3
 MGP 0.77 205 P 20 49.50 0.6
 SJG 0.82 136 P 20 49.80 0.2
 LPR 0.92 116 P 20 51.00 0.2
 CPD 1.03 130 P 20 52.40 0.3
 MORO 7.94 191 iPc 22 27.90 0.2
 CAR 8.16 181 iPd 22 30.00 -0.8
 IS 23 50.50
 LLAV 8.19 180 iPc 22 29.10 -2.1
 eS 23 51.10
 GUAC 8.48 184 eP 22 35.60 0.3
 OLLA 8.64 180 iPd 22 36.20 -1.2
 PLAY 8.82 185 eP 22 42.00 2.1
 TCE 9.31 148 eP 22 47.00 0.5

TRN 9.54 146 eP 22 49.23 -0.3
 eS 24 25.00
 SDV 10.47 202 eP 23 03.10 0.7
 SIV 34.93 170 iP 27 15.40 -4.0X
 CNCB 35.32 182 P 27 15.00 -8.3X
 CCH 35.87 179 P 27 27.00 -0.7
 MBC 63.43 348 eP 30 56.00 -0.2
 S.D. = 1.0 on 16 of 18 obs.

* JUN 27, 1990 16h 54m 36.45 ± 1.22s
 38.660 N ± 7.6km 20.335 E ± 17.7km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)

VLS 0.52 157 ePg 54 46.00 -1.0
 IGT 0.87 360 eP 54 51.50 -1.7
 KEK 1.13 339 ePb 54 58.50 0.9
 ITM 1.94 139 ePn 55 11.00 1.2
 LIT 2.20 49 eP 55 13.50 -0.1
 eS 55 47.50
 OHR 2.47 8 ePn 55 18.00 0.5
 VLI 2.83 132 ePb 55 27.50 5.0X
 VAY 3.16 32 ePn 55 27.50 0.3
 SKO 3.41 14 ePn 55 52.00 21.2X
 S.D. = 1.3 on 7 of 9 obs.

& JUN 27, 1990 17h 04m 52.30s
 36.652 N 121.290 W
 DEPTH = 5.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 3.1 (BRK).

SAO 0.17 312 iPc 04 55.60 -0.2
 LLA 0.28 97 iPc 04 57.90 -0.1
 PRS 0.33 191 iPc 04 58.80 -0.1
 GCC 0.68 304 iPd 05 05.30 -0.6
 PRI 0.72 135 iPd 05 07.00 0.4
 ARN 0.72 344 iPc 05 06.40 -0.3
 MHC 0.74 338 iPd 05 06.80 -0.4
 PHAM 1.09 138 eP 05 12.20 -1.0
 PKEM 1.12 121 eP 05 13.80 0.0
 PCC 1.22 314 eP 05 14.80 -0.6
 BKS 1.44 329 eP 05 18.70 -0.3
 BRK 1.44 328 e(P) 05 18.70 -0.4
 CMB 1.56 27 ePc 05 19.70 -1.0
 IS 05 39.40
 BCH 1.76 146 eP 05 21.70 -2.1
 ABL 2.46 136 eP 05 31.50 -2.5
 ORV 2.90 357 eP 05 39.20 -0.8
 KVN 3.48 46 eP 05 48.00 -0.4
 TNP 3.54 65 eP 05 49.00 -0.3
 18 obs. associated

* JUN 27, 1990 17h 16m 42.93 ± 0.82s
 9.503 S ± 9.3km 119.056 E ± 10.2km
 DEPTH = 33.0km (normol)
 3.8mb (2 obs.)
 SUMBA ISLAND REGION (287)

MKS 4.28 6 iPc 17 40.50 1.1
 TRT 6.60 285 ePc 18 19.00 -1.1
 MBL 11.61 176 eP 19 30.00 0.5
 0.3s 21.00nm 5.9mb X
 eS 21 30.00
 MTN 12.30 107 eP 19 37.00 -1.8
 eS 21 44.00
 NANU 13.42 194 eP 19 54.00 0.5
 0.3s 6.00nm 5.1mb X
 eS 22 11.00
 MEKA 17.03 182 eP 20 46.00 5.8X
 eS 23 41.00
 WRA 18.05 127 Pd 20 53.30 0.3
 0.7s 2.60nm 3.5mb
 WARB 18.08 158 eP 20 56.00 2.6X
 MRWA 19.82 188 eP 21 17.00 3.2X
 eS 24 46.00
 ASPA 19.99 137 eP 21 16.20 0.5
 0.8s 8.00nm 4.1mb
 eS 24 57.80
 S.D. = 1.3 on 7 of 10 obs.

* JUN 27, 1990 17h 22m 48.52 ± 0.92s
 18.476 S ± 10.2km 71.943 W ± 11.2km
 DEPTH = 33.0km (normol)
 4.3mb (1 obs.)
 OFF COAST OF NORTHERN CHILE (121)

ARE 2.05 12 eP 23 22.00 0.4
 iS 23 45.50
 LPB 4.15 63 P 23 50.00 -1.5
 1.0s 200.00nm

ANT 5.39 165 e(P) 24 08.20 -0.6
 CCH 5.63 80 eP 24 13.00 0.6
 PT06 6.25 317 iP 24 20.00 -1.0
 iS 25 49.40
 NNA 8.00 323 eP 25 24.00 38.6X
 0.7s 7.53nm
 eS 26 27.00
 SIV 10.68 78 P 25 15.60 -6.8X
 YKA 87.42 342 eP 35 34.50 1.2
 0.6s 1.00nm 4.3mb
 BCAO 91.84 86 iPd 35 56.10 0.9
 0.5s 5.00nm 5.2mb X
 S.D. = 1.3 on 7 of 9 obs.

? JUN 27, 1990 17h 39m 06.10 ± 5.45s
 0.460 N ± 26.9km 79.056 W ± 29.2km
 DEPTH = 10.0km (geophysicist)
 NEAR COAST OF ECUADOR (105)

COTA 0.73 100 iP+ 39 21.00 0.2
 eS 39 34.00
 GGP 0.78 144 eP 39 22.20 0.5
 eS 39 36.60
 OUR 0.82 140 iP+ 39 22.30 0.0
 iS 39 34.60
 QTO 0.84 141 eP 39 23.10 0.5
 eS 39 37.90
 CAYA 1.14 109 iPd 39 27.60 -0.1
 iS 39 45.60
 GECU 1.16 132 eP 39 27.50 -0.7
 eS 39 45.60
 VC1 1.27 149 iP+ 39 29.80 -0.3
 iS 39 50.30
 TUNG 1.96 162 eP 39 40.00 -0.1
 eS 40 08.00
 S.D. = 0.5 on 8 of 8 obs.

? JUN 27, 1990 18h 00m 52.46 ± 0.82s
 32.154 S ± 12.8km 69.842 W ± 13.5km
 DEPTH = 120.0km (geophysicist)
 MENDOZA PROVINCE, ARGENTINA (139)

RTBS 0.59 34 iPc 01 11.20 0.0
 S 01 24.20
 RTCV 1.15 76 e(P) 01 16.30 0.0
 ZON 1.16 59 eP 01 16.50 0.0
 eS 01 33.50
 PEL 1.22 216 iPd 01 17.10 0.0
 iS 01 36.50
 RTLL 1.43 55 iP 01 14.00 -5.5X
 CFA 1.47 69 ePc 01 20.00 0.1
 eS 01 40.10
 RTRS 2.00 10 ePc 01 26.40 0.0
 S.D. = 0.0 on 6 of 7 obs.

JUN 27, 1990 21h 25m 00.16 ± 0.86s
 34.089 N ± 11.8km 25.183 E ± 6.5km
 DEPTH = 99.2 ± 30.2 km
 CRETE (370)

VAM 1.54 329 ePb 25 27.50 0.2
 VLI 3.20 326 ePn 25 49.50 0.1
 KSL 4.14 59 ePn 26 01.00 -1.2
 CIN 4.22 33 iPd 26 03.00 -0.4
 ELL 4.68 54 ePn 26 11.00 1.1
 BCK 5.53 51 ePn 26 22.00 0.3
 KOT 7.00 124 ePn 26 41.50 -0.3
 eS 27 55.00
 VAY 7.51 345 eP 26 57.80 9.1X
 SOI 8.39 301 P 26 59.50 -1.2
 ATN 8.85 300 P 27 08.00 1.0
 PRNI 9.11 112 eP 27 11.00 0.4
 MBH 9.30 115 eP 27 13.00 0.0
 S.D. = 0.9 on 11 of 12 obs.

? JUN 27, 1990 21h 25m 07.98 ± 7.06s
 44.044 N ± 57.2km 6.925 E ± 18.1km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.3 (LDG).

SBF 0.41 116 Pg 25 16.40 0.0

FRF	0.52	203	Sg	25	22.40		TIY	73.45	317	eP	30	11.00	-1.1	AVF	145.52	340	iPKPc	38	16.60	0.3	
			Pg	25	18.60	0.0	KMI	74.47	302	eP	30	19.00	0.5		1.2s	53.55nm					
			Sg	25	26.60			1.5s	50.00nm				5.1mb	LPF	145.60	346	iPKPc	38	17.50	1.1	
LRG	0.72	215	Pg	25	22.10	0.0	SPA	75.19	180	iPc	30	21.80	0.0		0.9s	80.25nm					
			Sg	25	33.00			1.0s	49.50nm				5.2mb	CKI	145.62	333	PKP	38	15.50	-1.1	
LMR	0.77	203	Pg	25	23.00	0.0	CHG	75.23	294	eP	30	23.50	0.8	SOI	145.72	318	PKP	38	17.50	0.6	
			Sg	25	33.80		CD2	76.18	308	P	30	28.00	0.1	BNI	145.79	335	PKP	38	18.20	1.2	
	S.D. = 0.0	on	4 of	4	obs.		LZH	78.50	312	Pc	30	41.50	0.8	FIN	145.83	333	PKP	38	16.94	0.0	
								1.8s	38.00nm				4.9mb	RRL	145.86	335	PKP	38	18.37	1.1	
JUN 27, 1990	21h	28m	03.29±	0.32s			MAW	81.76	202	iPd	30	58.20	1.0	BGF	145.88	341	iPKPc	38	18.30	1.4	
	44.096 N ± 2.3km		6.927 E ± 2.9km				GTA	82.85	314	P	31	04.40	0.9	BST	145.95	350	PKP	38	17.84	0.9	
	DEPTH = 8.2 ± 3.3 km						GUN	89.56	299	P	31	36.60	-0.2	DOI	146.00	334	PKP	38	16.50	-0.8	
FRANCE			(538)					0.8s	19.00nm				5.2mb	ATN	146.05	318	PKP	38	17.50	0.0	
	ML 2.3 (GEN), 2.7 (LDG).						PKI	89.86	298	P	31	38.00	-0.2	PZZ	146.06	334	PKP	38	17.45	0.0	
								0.8s	23.00nm				5.3mb	PLDF	146.15	339	PKP	38	19.32	1.8	
TOUF	0.25	109	Pg	28	08.37	-0.1	DMN	90.12	298	P	31	39.20	-0.1	ENR	146.15	334	PKP	38	17.04	-0.5	
MVIF	0.26	141	Pg	28	09.00	0.3		1.0s	37.00nm				5.4mb	STV	146.18	334	PKP	38	17.14	-0.5	
			Sg	28	13.35		GKN	90.63	299	P	31	40.80	-0.7	IMI	146.20	333	PKP	38	18.37	0.7	
STV	0.32	62	P	28	09.64	-0.3		0.8s	20.00nm				5.3mb	AGO	146.24	340	PKP	38	19.34	1.8	
			S	28	13.84		WMO	92.91	315	iPd	31	52.20	0.6	MAF	146.27	341	iPKPc	38	19.70	2.1	
CALN	0.34	185	Pg	28	10.69	0.3	GBA	93.35	283	Pd	31	54.30	0.3		0.8s	22.15nm					
AURF	0.36	126	Pg	28	10.88	0.3		1.0s	5.00nm				4.7mb	TCF	146.32	341	iPKPc	38	19.60	1.9	
			Sg	28	16.13		YKA	97.66	27	eP	32	12.80	0.2		1.0s	35.00nm					
ENR	0.38	70	P	28	10.77	-0.2		0.8s	0.80nm				4.3mb	SBF	146.44	333	iPKPc	38	19.40	1.4	
			S	28	15.99		FRS	122.46	219	ePKP	37	32.50	-1.4X		0.7s	46.30nm					
PZZ	0.43	17	P	28	11.69	-0.3	CIR	123.79	232	iPKPc	37	56.30	19.5X	PYM	146.55	340	PKP	38	20.39	2.3	
			S	28	17.64		BUL	126.54	230	iPKPc	37	36.00	-6.3X	LSF	146.57	342	iPKPc	38	20.00	2.0	
SBF	0.43	122	Pg	28	12.20	0.1	KRI	127.72	235	iPKPd	37	39.30	-5.3X		0.8s	43.00nm					
			Sg	28	18.30		NB2	130.81	345	PKP	37	48.80	-0.3	MFF	146.71	344	iPKPc	38	20.70	2.5	
SAOF	0.47	103	Pg	28	12.64	-0.1		0.7s	1.80nm					PGF	146.75	330	iPKPc	38	20.60	2.0	
			Sg	28	19.18		HFS	130.91	343	ePKP	37	48.20	-1.0		0.9s	42.60nm					
FRF	0.57	201	Pg	28	14.70	-0.1		0.6s	1.10nm				4.0msz	LBL	146.92	339	PKP	38	21.77	3.2X	
			Sg	28	22.60		Z	19s	0.03um					FRF	147.02	334	iPKPc	38	21.30	2.5	
IMI	0.72	105	P	28	17.12	-0.6			ePP	41	02.40			0.9s	32.75nm						
			S	28	26.56		CLL	138.25	336	ePKP	38	05.00	1.6	LRG	147.23	334	iPKPc	38	22.10	3.0X	
LRG	0.76	213	Pg	28	17.90	-0.4	KHC	139.68	333	ePKP	38	06.00	-0.1		0.8s	20.15nm					
			Sg	28	29.30		CDP	142.77	338	ePKP	38	07.60	-4.1X	LMR	147.26	334	iPKPc	38	21.90	2.7X	
LMR	0.82	202	Pg	28	19.00	-0.3		0.6s	3.60nm					0.9s	24.55nm						
			Sg	28	30.20		OSS	143.04	334	ePKPc	38	09.80	-2.5	RJF	147.42	341	iPKPc	38	22.80	3.4X	
RRL	0.83	353	P	28	18.87	-0.8	LSS	143.37	335	ePKPc	38	10.40	-2.5		0.7s	22.05nm					
			S	28	29.84		BSF	143.43	338	ePKP	38	10.60	-2.3	CAF	147.59	340	iPKPc	38	23.40	3.6X	
FIN	0.93	83	P	28	21.12	-0.1		0.6s	3.60nm					0.7s	9.90nm						
			S	28	32.50		SAL	143.70	332	PKP	38	11.00	-2.2	BCAO	147.60	254	iPKPc	38	23.00	2.3	
BNI	0.97	349	P	28	25.50	3.4X	MDI	143.93	333	PKP	38	10.50	-3.1X		0.3s	83.00nm					
PCP	1.24	68	P	28	26.86	0.2	TMA	144.03	334	ePKPc	38	12.30	-1.7		id	38	50.10				
LSD	1.37	7	P	28	29.22	0.3	ARV	144.08	328	PKPc	38	12.80	-1.2	LFF	147.99	342	iPKPc	38	24.20	3.9X	
LPG	1.41	355	Pg	28	29.80	0.3	VAI	144.27	334	PKPc	38	12.60	-1.5		0.7s	41.90nm					
LPL	1.43	354	Pg	28	30.00	0.3	ORI	144.31	320	PKP	38	13.50	-1.0	LPO	148.08	341	iPKPc	38	24.60	4.1X	
PGF	2.16	135	Pn	28	39.60	-0.6	SFI	144.33	329	PKP	38	14.00	-0.3		0.7s	30.85nm					
			Sn	29	04.40		PGD	144.43	329	PKPc	38	14.50	-0.3	EPF	149.84	341	ePKP	38	28.80	5.5X	
	S.D. = 0.4	on	20 of	21	obs.		MMK	144.45	335	ePKPc	38	14.40	-0.4		0.8s	12.10nm					
							CRE	144.50	329	PKPc	38	13.80	-1.0	TIC	168.89	223	(PKP)	38	45.00	-0.2	
							DUI	144.50	324	PKP	38	13.60	-1.2	LKO	171.29	233	PKP	38	46.26	-0.2	
							ASS	144.53	327	PKP	38	14.00	-0.8		0.7s	11.50nm					
							TDS	144.62	320	PKPc	38	14.50	-0.5								
							AQU	144.63	326	PKP	38	15.20	0.2		S.D. = 1.1	on	104 of	120	obs.		
							DIX	144.65	336	ePKPc	38	15.00	-0.2		JUN 27, 1990	22h	20m	25.23±	0.47s		
							MME	144.69	330	PKP	38	14.80	-0.5		45.347 N ± 4.3km			14.602 E ± 4.2km			
							SGO	144.71	322	PKPc	38	14.00	-1.1		DEPTH = 10.0km (geophysicist)						
							ORX	144.79	335	PKP	38	13.96	-1.3		YUGOSLAVIA						
							FLN	144.79	346	iPKPc	38	14.30	-0.7		MD 3.0 (LJU), 2.8 (TRI). ML 3.1 (VIE). Felt (IV) at Rijeka, Novi Vinodolski and Crikvenica. Also felt at Omisalj.						
								0.6s	26.15nm												
							ORO	144.79	335	PKP	38	14.20	-1.0	RIY	0.15	269	iPg	20	28.20	-0.6	
							BOB	144.84	332	PKPc	38	14.90	-0.4				iSg	20	31.30		
							SDI	144.84	325	PKPc	38	14.20	-1.2	CEY	0.41	343	iPg	20	33.40	-0.2	
							BDI	144.84	330	PKPc	38	14.70	-0.6				eSg	20	41.40		
							AZI	144.86	325	PKPc	38	15.00	-0.3	VBY	0.49	71	ePg	20	33.70	-1.4	
							LDF	144.86	346	iPKPc	38	14.60	-0.5				iSg	20	40.00		
								0.7s	20.95nm					TRI	0.69	302	ePg	20	37.90	-1.0	
							BSS	144.86	323	PKPc	38	14.20	-1.2				iSg	20	50.00		
							LOR	144.93	340	iPKPc											

27d 22h

Table with columns for station ID, time, and values. Includes stations like PGD, CRE, ASS, SAL, SOTA, BDI, MDI, BOB, KHC.

S.D. = 0.9 on 17 of 20 obs.

JUN 27, 1990 22h 42m 48.38 ± 0.40s
46.037 N ± 3.2km 2.792 E ± 3.6km
DEPTH = 10.0km (geophysicist)

FRANCE (538) ML 2.0 (LDG).

Table with columns for station ID, time, and values. Includes stations like AGO, MAF, PYM, TCF, BGF, AVF, LBL, LSF, SMF, SSF, CAF, LBF, LOR.

S.O. = 0.5 on 13 of 13 obs.

* JUN 27, 1990 23h 01m 57.18 ± 3.31s
39.244 N ± 22.5km 20.456 E ± 20.4km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
ML 2.8 (THE).

Table with columns for station ID, time, and values. Includes stations like IGT, AGG, FNA, LIT, OHR, GRG, VAY, SOH, SKO.

S.D. = 0.9 on 8 of 9 obs.

* JUN 27, 1990 23h 56m 21.50s
40.375 N 124.568 W
DEPTH = 23.0km
NEAR COAST OF NORTHERN CALIF. (35)
<BRK>. ML 3.4 (BRK).

Table with columns for station ID, time, and values. Includes stations like WDC, LTCM, LBFM, MIN, ORV, BRK, BKS, PCC.

Table with columns for station ID, time, and values. Includes stations like MHC, ARN, GCC, SAO, PRS.

* JUN 28, 1990 00h 05m 13.45s
41.895 N 112.404 W
DEPTH = 9.3km
3.5mb (2 obs.)
UTAH (478)
<SLC-P>. ML 3.9 (SLC). mbLg 3.5
(TUL). Felt (III) at Gorland and Portage.

Table with columns for station ID, time, and values. Includes stations like PTI, DAU, DUG, HPI, BW06, BGMT, MSU, MEMT, LRM, BUT, PV09, SXM, HRY, KVN, TNP, GLD, ALO, SES, TUL, UYO, YKA.

* JUN 28, 1990 00h 32m 02.15 ± 0.69s
4.316 S ± 8.4km 131.418 E ± 17.9km
DEPTH = 33.0km (normol)
4.2mb (2 obs.)
BANDA SEA (280)

Table with columns for station ID, time, and values. Includes stations like MTN, KNA, WB5, WRA, QIS, ASPA, Z, GUMO, CAN, CHG, CNCB, LPB, ZOBO.

* JUN 28, 1990 01h 40m 31.14 ± 3.22s
39.149 N ± 21.6km 23.706 E ± 19.4km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 2.5 (THE).

Table with columns for station ID, time, and values. Includes stations like AGG, OUR, LIT, THE, SOH, SRS, GRG.

S.D. = 0.4 on 7 of 7 obs.
& JUN 28, 1990 02h 06m 05.32s
61.099 N 150.515 W
DEPTH = 44.0km
SOUTHERN ALASKA (2)
<AGS-P>.

Table with columns for station ID, time, and values. Includes stations like SUA, PMS, SLKM, PWA, SPU, CGLM, CRP, PLRM, NCG, SKT, GH0, RDT,>NNL, SEW, SML, RED, CUT, CNPM, GLI, SCM, VZW, VLZ, KLU, TOA.

* JUN 28, 1990 02h 35m 14.66s
62.842 N 150.617 W
DEPTH = 89.4km
CENTRAL ALASKA (1)
<AGS-P>.

Table with columns for station ID, time, and values. Includes stations like CUT, HUR, KTH, SKT, PWA, GH0, SUA, PLRM, SML, NCG, CGLM, PMS, CRP, SPU, SCM, WRH, TOA, CCB, SLKM, PAX, SDG, RDT, KLU.

JUN 28, 1990 02h 38m 42.58 ± 0.44s
42.580 N ± 4.1km 0.158 E ± 3.9km

28d 04h

RTLL	0.41	102	iPc	55	41.20	-0.1
RTBS	0.60	227	iPd	55	42.30	-0.2
CFA	0.70	121	iPc	55	43.30	0.0
			eS	55	57.30	
RTCV	0.70	151	iPc	55	43.20	-0.2
PEL	2.40	218	ePc	56	03.50	0.1
			iS	56	30.40	

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

* JUN 28, 1990 04h 58m 11.69± 1.60s
17.082 N ±12.6km 100.271 W ±13.5km
DEPTH = 33.0km (normal)

3.8mb (3 obs.)
GUERRERO, MEXICO (59)
Felt at Acapulco and Chilpancingo.

ACX	0.45	118	iP	58	22.85	1.3
			iS	58	29.02	
III	1.50	31	iP	58	37.33	0.6
			(S)	59	08.90	
CRX	2.38	14	eP	58	51.30	1.8
			(S)	59	35.05	
UNM	2.47	25	iP	58	52.00	1.3
			(S)	59	22.00	
PPM	2.52	38	iP	58	50.93	-0.7
			(S)	59	21.44	
IIT	2.68	44	iP	58	52.45	-1.3
			iS	59	30.55	
IJJ	2.69	11	iP	58	55.34	1.3
			(S)	59	33.55	
MRX	2.75	342	iP	58	58.00	3.6X
IIC	2.84	20	eP	58	55.63	-0.4
			iS	59	35.88	
OXX	3.39	89	iP	59	03.78	-0.1
			(S)	59	50.89	
LVVM	4.49	53	(P)	58	50.80	-28.4X
EVV	4.89	73	(P)	59	24.00	-0.8
AGX	5.14	338	(P)	58	57.00	-31.4X
ALO	18.63	344	eP	02	29.70	0.8

0.8s 2.24nm 3.4mb
Z 18s 1.55um 4.7mszX

TUL	19.17	11	e(P)	02	33.30	-2.0
			0.7s 4.50nm			3.8mb
YKA	46.46	351	eP	06	35.90	-1.2
			0.7s 1.70nm			4.1mb

MBC	60.01	355	eP	08	16.50	-0.6
TEH	121.00	27	ePdiff13	46.00	17.1X	

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

JUN 28, 1990 05h 39m 00.69± 0.29s
45.632 N ± 3.2km 10.120 E ± 3.1km
DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)
ML 3.0 (LDG).

SAL	0.29	95	P	39	06.20	-0.5
			eSg	39	11.80	
MDI	0.32	297	Pc	39	07.10	-0.2
			eSg	39	12.90	
VDL	0.97	332	ePc	39	19.60	0.4
VAI	0.97	284	P	39	20.50	1.3
			eSg	39	35.00	
BOB	0.99	209	P	39	20.30	0.8
			eSg	39	35.00	
TMA	0.99	299	ePc	39	20.50	0.9
OSS	1.05	1	ePd	39	21.20	0.5
LLS	1.46	328	ePc	39	28.60	1.3
MME	1.50	164	P	39	27.90	0.1
ORO	1.50	270	P	39	28.90	1.1
MMK	1.56	286	ePc	39	29.40	0.6
BDI	1.61	168	P	39	29.60	0.4
			eSg	39	50.80	
SAX	1.71	342	ePc	39	35.20	4.3X
PII	1.93	171	P	39	34.20	0.3
			eSg	39	58.40	
DIX	1.95	284	ePd	39	36.80	2.4X
FVI	2.09	62	P	39	36.40	0.3
			eSn	40	02.80	
PGD	2.09	146	P	39	36.80	0.4
SFI	2.11	144	P	39	36.50	0.1
DOI	2.33	242	P	39	39.00	-0.7
LPG	2.37	268	Pn	39	41.00	0.5
CRE	2.39	146	P	39	40.30	-0.3
			eSn	40	09.10	
SLE	2.41	333	ePc	39	41.00	0.2
TRI	2.56	87	P	39	42.00	-0.8

SBF	2.61	228	Pn	39	43.40	-0.2
ARV	2.94	136	P	39	48.50	0.2
BSF	3.17	315	Pn	39	51.20	-0.5
			Sn	40	28.40	
PGF	3.19	195	Pn	39	51.55	-0.4
			Sn	40	26.60	
CDF	3.39	326	Pn	39	54.50	-0.3
			Sn	40	34.40	
KHC	4.22	33	ePg	40	23.10	16.7X
			eSg	41	16.30	
LBF	4.47	290	Pn	40	08.80	-1.2
			Sn	40	58.40	
LOR	4.63	293	Pn	40	10.80	-1.5
			Sn	41	02.20	
AVF	4.84	286	Pn	40	13.60	-1.7
BGF	5.14	283	Pn	40	18.40	-1.2
CCH	93.01	248	P	51	59.30	-16.6X

S.D. = 0.8 on 30 of 34 obs.

* JUN 28, 1990 06h 03m 18.41± 1.45s
44.225 N ± 6.9km 6.297 E ± 12.6km
DEPTH = 10.0km (geophysicist)

FRANCE (538)
ML 2.3 (LDG), 2.0 (GEN).

PZZ	0.64	64	P	03	31.97	0.6
			S	03	40.68	
FRF	0.71	159	Pg	03	32.00	-0.4
			Sg	03	40.40	
STV	0.74	88	P	03	32.58	-0.4
			S	03	42.17	
LRG	0.77	177	Pg	03	33.30	-0.1
			Sg	03	43.00	
RRL	0.78	26	P	03	33.71	0.0
ENR	0.81	89	P	03	33.02	-1.1
SBF	0.90	113	Pg	03	36.80	1.2
			Sg	03	48.80	
LMR	0.90	170	Pn	03	36.00	0.3
			Pg	03	36.80	
			Sg	03	48.20	

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

? JUN 28, 1990 06h 05m 01.70± 5.14s
33.451 S ± 54.4km 69.747 W ± 20.9km
DEPTH = 33.0km (normal)

CHILE-ARGENTINA BORDER REGION (127)

PEL	0.84	291	iPc	05	17.20	0.0
			iS	05	29.70	
RTBS	1.80	8	eP	05	31.20	0.3
			S	05	54.40	
RTCV	1.89	33	ePd	05	33.00	0.8
CFA	2.24	35	e(P)	05	37.20	0.0
			S	06	06.00	
RTLL	2.38	27	iPc	05	38.20	-1.0
			eS	06	07.80	

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

* JUN 28, 1990 07h 27m 34.92± 2.52s
39.253 N ± 20.0km 27.905 E ± 8.6km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

DST	0.66	58	ePg	27	48.20	0.1
EDC	1.09	358	iPn	27	54.90	-0.5
BNT	1.10	1	ePn	27	55.70	0.1
KGT	1.28	339	iPn	27	59.20	0.5
EZN	1.35	296	ePn	27	59.60	-0.1

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

JUN 28, 1990 08h 05m 31.43± 0.58s
40.518 N ± 6.5km 21.907 E ± 5.0km
DEPTH = 10.0km (geophysicist)

GREECE (364)

FNA	0.48	303	iPgc	05	41.50	0.2
			eSg	05	49.50	
GRG	0.58	40	ePg	05	42.40	-0.7
SOH	1.14	74	ePd	05	53.20	0.4
SRS	1.41	64	ePbd	05	57.50	0.3
			eSb	06	17.00	
PAIG	1.48	113	ePb	05	58.40	0.3
			eSb	06	18.00	
AGG	1.53	168	ePbc	05	58.50	-0.3
			iSb	06	18.20	
IGT	1.56	231	ePbc	05	59.20	0.0
			eSb	06	21.60	

OUR 1.59 96 ePbd 05 59.60 -0.1
S.D. = 0.5 on 8 of 8 obs.

* JUN 28, 1990 08h 09m 18.35± 1.11s
17.128 N ± 9.7km 99.804 W ± 14.3km
DEPTH = 33.0km (normal)

GUERRERO, MEXICO (59)

ACX	0.26	191	iP	09	25.00	-0.7
			iS	09	31.00	
III	1.28	14	iP	09	39.50	-0.7
			iS	09	55.00	
PPM	2.23	30	iP	09	52.50	-1.7
			iS	10	24.00	
IIT	2.36	37	(P)	10	04.00	8.1X
			(S)	10	39.00	
IJJ	2.59	1	iP	10	00.00	0.7
			iS	10	30.00	
MRX	2.88	333	eP	10	04.00	1.1
			(S)	10	40.50	
OXX	2.95	90	iP	10	05.50	1.4
			iS	10	41.00	

S.D. = 1.6 on 6 of 7 obs.

* JUN 28, 1990 08h 56m 42.28± 1.17s
5.874 S ± 18.2km 148.518 E ± 14.2km
DEPTH = 33.0km (normal)

4.3mb (3 obs.)
NEW BRITAIN REGION (192)

KDB	3.82	201	iPd	57	42.00	1.8
			eS	58	18.00	
RAB	4.00	65	iPc	57	43.00	0.1
			iS	58	03.00	
MNDI	4.84	266	eP	57	55.50	0.6
OIS	16.97	210	eP	00	37.00	-1.9
			e	07	57.00	
WB5	19.57	223	eP	01	05.70	-4.9X
WRA	19.63	223	P	01	08.00	-3.3X
			0.5s 2.80nm			3.8mb
BRS	21.78	170	iPc	01	39.50	6.2X
ASPA	22.60	217	eP	01	41.80	0.3
			0.4s 12.00nm			4.7mb
WARB	29.05	224	eP	02	41.00	-0.9
			0.3s 2.00nm			4.4mb
			eS	06	55.00	

S.D. = 1.6 on 6 of 9 obs.

& JUN 28, 1990 10h 10m 07.20s
61.868 N 151.188 W
DEPTH = 93.0km

SOUTHERN ALASKA (2)
<AGS-P>.

SKT	0.20	305	iP	10	20.06	1.0
SUA	0.46	152	iP	10	22.47	0.2
			eS	10	34.20	
NCG	0.66	225	iP	10	23.27	-0.7
			Sn	10	36.10	
PWA	0.66	109	iP	10	23.49	-0.3
CGLM	0.69	215	iP	10	23.50	-0.7
			eS	10	36.39	
CUT	0.69	38	iP	10	23.31	-0.8
CRP	0.76	218	iP	10	24.40	-0.6
			Sn	10	37.92	
SPU	0.80	211	iP	10	24.58	-0.7
			iS	10	38.12	
PMS	1.00	128	iP	10	26.82	-0.6
			eS	10	42.51	
PLRM	1.02	105	iP	10	26.39	-1.2
GHO	1.08	94	iP	10	27.38	-1.0
			eS	10	44.52	
HUR	1.33	32	eP	10	30.06	-1.3
			iS	10	47.32	
SML	1.36	91	iP	10	30.49	-1.2
RDT	1.43	205	iP	10	32.03	-0.6
SLKM	1.44	161	eP	10	32.06	-0.7
RED	1.64	209	iP	10	34.92	-0.5
KTH	1.70	4	eP	10	34.55	-1.5
			iS	10	55.63	
SCM	1.83	89	iP	10	36.57	-1.3
			eS</			

28d 12h

SGE	4.46	319	iPc	49 44.30	0.1
			eS	51 02.50	
MBU	4.54	331	ePc	49 44.90	0.2
NDF	4.64	313	eP	49 47.10	1.7
NDE	4.66	340	ePc	49 45.40	-0.3
DZM	13.58	263	iPd	51 07.90	1.5
BRS	26.48	251	iPc	53 04.50	0.8
PPN	28.11	88	iP	53 17.50	-0.3
	0.8s		20.00nm		4.8mb
TVO	28.23	89	iP	53 18.60	-0.3
	0.8s		50.00nm		5.2mb
RMO	29.96	253	iPd	53 34.10	0.6
	0.7s		25.00nm		5.0mb
PMO	30.15	84	iP	53 35.00	-0.1
	0.8s		15.00nm		4.7mb
VAH	30.33	84	iP	53 36.10	-0.5
	0.8s		20.00nm		4.8mb
TPT	30.41	84	iP	53 37.10	-0.2
	0.8s		30.00nm		5.0mb
RUV	30.58	84	iP	53 38.60	-0.1
	0.8s		35.00nm		5.0mb
STK	36.73	245	iPd	54 30.70	1.1
	0.6s		7.00nm		4.4mb
ASPA	43.49	257	iPd	55 23.30	-0.3
	0.7s		56.00nm		5.1mb
			iS	01 05.70	
WB5	43.58	263	iPd	55 23.20	-1.1
			eS	01 06.00	
WRA	43.60	263	Pd	55 23.20	-1.2
	0.4s		11.40nm		4.7mb
MTN	48.23	271	iPc	55 58.00	-1.6
	0.9s		300.00nm		5.7mb
KNA	49.66	267	iPd	56 09.00	-1.1
WARB	49.78	253	iPd	56 10.20	-0.7
	0.3s		7.00nm		4.5mb
MRWA	58.79	248	eP	57 13.00	-0.6
NANU	60.36	255	iPd	57 23.70	-0.3
	0.4s		25.00nm		4.8mb
SSE	77.28	311	eP	59 02.60	-1.6
EKA	145.57	4	PKPc	06 40.40	0.1
	0.7s		7.70nm		
MML	147.34	298	iPKPd	06 47.60	3.6X
VR1	147.45	326	ePKPc	06 46.00	2.3
DS1	147.54	296	ePKP	06 47.60	3.4X
PRN1	148.07	294	iPKPd	06 49.40	4.2X
MLR	148.11	326	ePKP	06 48.00	3.1
FLN	152.27	2	ePKP	06 56.70	5.9X
LDF	152.45	2	ePKP	06 57.20	6.2X
	0.4s		3.45nm		
GRR	152.63	3	ePKP	06 57.80	6.5X
	0.6s		3.60nm		
LPF	152.97	3	ePKP	06 58.70	6.9X
MFF	154.44	2	ePKP	07 01.70	7.9X
			S.D. = 1.1 on 30 of 38 obs.		
<hr/>					
? JUN 28, 1990	12h	51m	31.76±5.03s		
			38.853 N ±41.3km	23.177 E ±20.3km	
			DEPTH = 10.0km (geophysicist)		
GREECE (364)					
ML 2.7 (THE).					
AGG	0.68	285	ePgc	51 45.40	0.1
			eSg	51 55.40	
PAIG	1.14	20	iPbc	51 53.10	0.0
			eSb	52 09.10	
LIT	1.36	337	ePb	51 56.20	-0.5
			iSb	52 16.70	
OUR	1.60	23	ePbc	51 59.80	-0.4
SOH	1.97	4	ePn	52 06.40	0.8
GRG	2.18	344	ePnd	52 08.60	-0.1
			S.D. = 0.6 on 6 of 6 obs.		
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? JUN 28, 1990	13h	09m	48.62±6.31s		
			15.405 N ±55.6km	98.459 W ±15.6km	
			DEPTH = 33.0km (normal)		
OFF COAST OF GUERRERO, MEXICO (65)					
ACX	1.98	317	iP	10 20.50	0.0
			iS	10 43.00	
OXX	2.36	45	iP	10 26.00	0.0
			iS	10 47.50	
III	3.11	342	iP	10 37.00	0.3
			iS	11 05.00	
IIT	3.60	2	(P)	10 45.00	1.3
			(S)	11 18.00	
PPM	3.64	358	iP	10 43.00	-1.6
			iS	11 17.50	

IIJ	4.47	344	eP	11 01.00	4.6X
			(S)	11 33.00	
LVVM	4.72	24	(P)	11 06.00	6.7X
MRX	5.01	329	(P)	11 07.00	3.6X
			S.D. = 1.5 on 5 of 8 obs.		
<hr/>					
? JUN 28, 1990	15h	42m	23.31±5.15s		
			44.038 N ±18.1km	6.869 E ±30.5km	
			DEPTH = 10.0km (geophysicist)		
FRANCE (538)					
STV	0.39	58	P	42 31.19	-0.1
			S	42 35.39	
ENR	0.44	64	P	42 32.11	-0.2
			S	42 37.13	
PZZ	0.50	20	P	42 33.34	-0.1
			S	42 39.39	
IMI	0.75	99	P	42 37.85	-0.2
			S	42 47.49	
PCP	1.31	67	P	42 48.00	0.5
			S.D. = 0.4 on 5 of 5 obs.		
<hr/>					
JUN 28, 1990	16h	01m	08.47±0.54s		
			39.848 N ±4.5km	28.880 E ±5.1km	
			DEPTH = 10.0km (geophysicist)		
TURKEY (366)					
DST	0.31	219	iPg	01 14.40	-0.6
			iSg	01 19.00	
IZI	0.67	43	iPg	01 21.10	-0.7
YLV	0.81	28	iPg	01 23.40	-0.8
			iSg	01 33.90	
BNT	0.89	305	ePg	01 25.00	-0.6
EDC	0.93	303	iPg	01 27.00	0.8
GBZT	1.03	24	ePg	01 29.50	1.5
			iSg	01 44.00	
HRT	1.14	31	ePn	01 29.40	-0.5
GPA	1.18	68	ePn	01 30.90	0.4
ISK	1.22	6	ePn	01 31.60	0.4
ALT	1.24	129	ePn	01 31.00	-0.6
CTT	1.34	345	iPn	01 32.80	-0.4
KGT	1.35	297	iPn	01 34.90	1.6X
KHL	1.60	162	iPn	01 38.00	1.0
			S.D. = 0.9 on 12 of 13 obs.		
<hr/>					
& JUN 28, 1990	16h	33m	16.20s		
			37.080 N	121.975 W	
			DEPTH = 5.0km		
CENTRAL CALIFORNIA (39)					
<BRK>. ML 2.4 (BRK). Felt in					
Santo Cruz County.					
GCC	0.05	199	iPd	33 17.50	-0.2
MHC	0.37	45	iPd	33 23.85	0.1
			i	33 25.75	
ARN	0.44	53	iPc	33 24.90	-0.2
SAO	0.53	126	iP	33 26.50	-0.3
PCC	0.53	322	eP	33 25.90	-0.9
BRK	0.82	344	e(P)	33 32.10	-0.5
PRS	0.89	147	ePc	33 33.10	-0.7
			eS	33 47.00	
ZSP	0.89	346	ePd	33 33.20	-0.5
			eS	33 45.30	
LLA	0.95	119	iPd	33 33.90	-0.8
PR1	1.41	131	e(P)	33 41.60	-1.1
CMB	1.58	52	iPd	33 45.30	0.3
PHAM	1.78	134	eP	33 46.80	-1.0
KVN	3.64	56	eP	34 21.50	7.0
			13 obs. associated		
<hr/>					
% JUN 28, 1990	17h	16m	20.92±0.78s		
			40.335 N ±5.6km	29.472 E ±9.0km	
			DEPTH = 10.0km (geophysicist)		
TURKEY (366)					
IZI	0.00	24	iPg	16 21.50	-1.3
YLV	0.24	342	iPg	16 26.40	0.3
GBZT	0.45	357	ePg	16 30.20	0.1
			iSg	16 37.30	
HRT	0.51	17	iPg	16 31.60	0.4
DST	0.98	222	ePn	16 40.40	0.9
BNT	1.19	272	ePn	16 42.40	-0.7
ALT	1.37	159	ePn	16 46.00	-0.1
			S.D. = 0.9 on 7 of 7 obs.		
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JUN 28, 1990	17h	21m	03.84±0.38s		
			36.751 N ±10.4km	49.852 E ±6.3km	

DEPTH = 10.0km (geophysicist)					
4.7mb (22 obs.)					
WESTERN IRAN (347)					
Felt at Tehran.					
TEH	1.60	129	iPd	21 34.50	2.1
TAB	3.10	296	eP	21 01.00	-52.8X
KER	3.28	224	eP	22 04.00	7.6X
MAIO	7.78	90	eP	23 01.00	1.1
	0.8s		9.15nm		5.0mb
			eS	24 33.00	
QUE	15.69	110	eP	24 53.30	6.6X
VR1	19.56	305	ePd	25 36.50	1.8
MLR	19.96	303	eP	25 40.00	1.0
VAY	21.64	291	eP	25 59.00	2.9
SKO	22.52	292	eP	26 07.00	2.0
OHR	22.96	290	eP	26 09.50	0.1
SPC	24.80	309	eP	26 29.20	1.9
KRA	25.28	311	eP	26 30.60	-1.0
			e	26 37.60	
ZST	26.53	306	e(P)	26 49.00	5.8X
			e	43 01.70	
DUI	27.73	291	P	26 55.00	0.6
KSP	27.74	311	eP	26 54.00	-0.3
			e	27 00.70	
NUR	28.68	334	eP	27 02.00	-0.6
KHC	29.01	307	eP	27 06.60	0.8
			e	27 13.00	
FV1	29.15	301	P	27 09.00	2.0
BRG	29.18	310	e(P)	27 26.90	19.7X
CRE	29.56	295	P	27 12.00	1.1
PGD	29.73	296	P	27 14.00	1.5
SUF	29.82	338	eP	27 13.00	0.1
	0.7s		5.00nm		4.4mb
CLL	29.87	311	iP	27 13.00	-0.4
	1.2s		12.00nm		4.6mb
			e	27 18.00	
GKN	30.51	97	P	27 18.60	-1.0
GRF	30.63	307	eP	27 21.00	0.8
DMN	31.06	97	P	27 24.60	0.1
MDI	31.21	299	P	27 25.50	0.2
PKI	31.31	97	P	27 24.20	-2.6
PGF	31.75	293	eP	27 29.70	-0.6
	0.9s		11.45nm		4.8mb
HFS	32.83	327	eP	27 39.20	-0.1
	0.8s		11.60nm		4.9mb
SBF	32.83	296	eP	27 39.40	-0.2
	0.8s		13.45nm		4.9mb
LPG	33.28	299	eP	27 43.20	-0.6
	0.7s		7.70nm		4.7mb
LPL	33.30	299	eP	27 43.00	-0.9
	1.1s		13.45nm		4.8mb
BNI	33.34	298	P	27 44.00	-0.1
FRF	33.42	295	eP	27 44.00	-0.6
	0.9s		9.85nm		4.7mb
GBA	33.76	126	P	27 49.00	1.2
	0.9s		2.80nm		4.2mb
NB2	34.33	327	P	27 51.70	-0.7
	0.9s		4.80nm		4.4mb
LOR	35.29	302	eP	27 59.60	-1.1
	1.1s		7.35nm		4.5mb
SMF	35.30	301	eP	28 00.20	-0.7
	1.0s		10.00nm		4.6mb
SSF	35.53	302	eP	28 02.20	-0.6
	1.2s		11.90nm		4.6mb
AVF	35.64	301	eP	28 02.80	-0.9
	0.9s		6.55nm		4.5mb
MAF	36.19	300	eP	28 08.10	-0.3
	1.0s		10.00nm		4.6mb
TCF	36.44	300	eP	28 10.20	-0.3
CAF	36.62	298	eP	28 11.80	-0.2
LSF	36.91	300	eP	28 14.00	-0.4
RJF	36.98	299	eP	28 15.30	0.3
LFF	37.55	298	eP	28 19.70	-0.1
LDF	37.96	304	eP	28 22.50	-0.7
MFF	38.05	301	eP	28 23.10	-0.9
	1.1s		17.10nm		4.7mb
FLN	38.20	305	eP	28 24.40	-0.7
GRR	38.45	304	eP	28 26.70	-0.6
	0.8s		14.80nm		4.8mb
LPF	38.59	303	eP	28 27.80	-0.6
EKA	40.09	315			

LIC 58.43 253 P 31 00.40 -1.8
0.7s 9.00nm 5.0mb
MBC 67.07 357 eP 31 59.00 0.2
FRB 68.67 335 eP 32 09.00 0.0
S.D. = 1.1 on 52 of 58 obs.

JUN 28, 1990 18h 57m 00.11± 0.45s
45.854 N ± 5.1km 12.368 E ± 4.2km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
MD 2.8 (TRI).

FVI 0.79 21 P 57 14.80 -0.7
TRI 0.99 98 iPg 57 19.00 0.2
VOY 1.08 80 ePg 57 20.10 -0.4
SAL 1.31 260 P 57 25.00 0.6
OGA 1.38 318 eP 57 25.40 -0.1
CEY 1.44 94 ePn 57 27.30 1.0
LJU 1.52 82 eSg 57 27.70 0.3
MDI 1.86 269 P 57 32.50 0.3
SFI 1.97 191 P 57 34.50 0.7
PGD 2.03 193 P 57 34.00 -0.9
VBY 2.05 99 eP 57 40.40 5.3X
CRE 2.25 188 P 57 37.00 -1.0
ARV 2.39 170 P 57 40.00 0.0
PTJ 2.51 88 eP 57 47.10 5.4X
KHC 3.38 14 ePg 58 02.00 8.0X
Sg 58 47.40
S.D. = 0.7 on 12 of 15 obs.

JUN 28, 1990 19h 30m 11.08± 0.33s
45.885 N ± 3.2km 12.369 E ± 3.1km
DEPTH = 24.3 ± 3.7 km
NORTHERN ITALY (545)
MD 3.2 (TRI), ML 2.8 (LJU), 3.2 (ZAG), 3.4 (GRF), 3.2 (LDG).

FVI 0.76 22 P 30 25.20 -0.4
TRI 0.99 100 iPg 30 29.20 -0.2
VOY 1.07 82 ePg 30 30.70 0.0
SAL 1.32 259 P 30 35.00 1.0
OGA 1.35 317 eP 30 34.70 0.0
CEY 1.45 95 ePn 30 36.50 0.6
RIY 1.52 110 iPn 30 37.50 0.6
LJU 1.52 83 iPnd 30 38.50 1.6
OSS 1.74 298 eP 30 42.10 1.8
MDI 1.86 268 P 30 44.10 2.3
BHG 1.87 11 ePn 30 44.10 2.1
RSM 1.96 178 P 30 43.70 0.4
SFI 2.00 191 P 30 45.00 1.1
VBY 2.06 100 ePg 30 49.20 4.4X
PGD 2.06 193 P 30 45.10 0.1
MME 2.06 216 P 30 46.80 1.7
VDL 2.10 288 eP 30 48.80 3.2X
BDI 2.21 215 P 30 48.40 1.4
CRE 2.28 188 P 30 49.00 1.1
BOB 2.34 243 P 30 50.50 1.6
FUR 2.40 342 iPnc 30 53.80 4.2X
ARV 2.42 170 P 30 50.00 0.1
TMA 2.45 276 eP 30 51.90 1.5
SAX 2.49 304 eP 30 53.20 2.0
PTJ 2.51 88 ePn 30 56.20 5.0X
VAI 2.51 271 P 30 51.50 0.3
ZAG 2.53 90 ePn 30 56.70 5.3X

P11 2.53 212 P 31 33.00 eSg
LLS 2.53 294 eP 30 52.50 1.0
ASS 2.82 176 P 30 56.70 5.0X
PCP 3.02 245 P 30 59.34 0.9
MMK 3.08 275 eP 31 04.40 5.0X
ORX 3.08 267 P 31 03.33 3.9X
ORO 3.08 267 P 31 00.50 1.1
GRC1 3.17 350 ePn 31 00.30 -0.2
ec 31 02.10
ZLA 3.17 302 eP 31 09.60 9.0X
SLE 3.26 307 eP 31 02.20 0.4
WET 3.28 6 ePn 31 02.40 0.3
FIN 3.39 242 P 30 59.83 -3.9X
DIX 3.46 275 eP 31 07.30 2.3
VKA 3.60 47 e(P) 32 05.00 58.3X
i 32 08.20
IMI 3.75 240 P 31 05.66 -3.1X
ENR 3.88 246 P 31 09.29 -1.4
STV 3.93 247 P 31 09.33 -2.1
LPG 3.96 266 Pn 31 13.00 1.1
Sn 32 01.40
LPL 3.97 267 Pn 31 13.00 1.0
PZZ 3.97 252 P 31 11.14 -0.9
ZST 3.98 53 e(P) 32 17.10 65.1X
e 40 46.40
i 41 02.60
HVAR 3.98 131 iPn 31 11.60 -0.4
SBF 4.05 242 Pn 31 13.60 0.5
RRL 4.05 258 P 31 13.16 -0.1
BNI 4.09 260 P 31 13.50 -0.3
PGF 4.12 217 Pn 31 14.00 -0.2
Sn 32 00.80
BSF 4.29 299 Pn 31 16.00 -0.6
Sn 32 06.00
CDF 4.30 308 Pn 31 16.30 -0.3
Pg 31 29.80
SDI 4.31 165 P 31 17.00 0.3
PRU 4.36 19 ePn 31 32.00 14.6X
Pg 31 41.00
Sg 32 30.20
DUI 4.49 160 P 31 18.00 -1.3
HAU 4.64 299 Pn 31 21.50 0.1
Pg 31 36.20
Sn 32 15.50
FRF 4.69 242 Pn 31 21.30 -0.9
MOX 4.79 354 ePn 31 23.00 -0.5
(Sg) 32 50.00
eSg 42 30.00
LRG 4.93 243 Pn 31 24.00 -1.4
Sn 32 21.20
BRG 5.10 11 e(P) 32 23.00 55.1X
e 32 43.00
e 32 55.00
LBF 5.90 284 Pn 31 38.40 -0.9
Sn 32 44.80
SMF 5.96 280 Pn 31 38.70 -1.4
LOR 6.03 286 Pn 31 40.40 -0.6
Sn 32 47.40
AVF 6.31 281 Pn 31 43.60 -1.3
BGF 6.64 279 Pn 31 48.40 -1.2
Sn 33 04.00
MAF 6.83 276 Pn 31 51.60 -0.7
CAF 7.32 266 Pn 31 58.00 -1.1
S.D. = 1.1 on 55 of 70 obs.

? JUN 28, 1990 20h 14m 17.86± 2.95s
4.999 S ± 22.0km 129.761 E ± 31.0km
DEPTH = 175.0 ± 28.7 km
4.3mb (5 obs.)
BANDA SEA (280)

MTN 7.91 170 eP 16 10.50 -0.5
eS 17 33.50
KNA 10.73 185 eP 16 47.00 -1.0
eS 18 36.00
WB5 15.46 164 eP 17 47.10 -1.0
e 17 50.10
eS 20 29.50
WRA 15.51 164 P 17 50.00 1.3
0.5s 3.50nm 4.0mb
KKM 17.41 309 ePd 18 13.70 1.8
0.8s 45.90nm 4.9mb
OIS 18.19 149 eP 18 20.00 -0.1
eS 21 34.00
ASPA 18.98 168 iPd 18 29.20 0.7
0.6s 21.00nm 4.7mb

WARB 21.28 188 eP 18 53.00 1.4
0.3s 1.00nm 3.8mb
CHG 38.49 309 eP 21 25.80 1.0
GUN 53.48 310 P 23 22.50 -0.3
PKI 53.66 310 P 23 23.30 -0.9
DMN 53.91 309 P 23 25.50 -0.5
GKN 54.47 310 P 23 29.40 -0.5
GBA 55.12 290 Pc 23 33.00 -1.5
1.1s 6.20nm 4.3mb
S.D. = 1.2 on 14 of 14 obs.

JUN 28, 1990 20h 48m 33.88± 0.57s
40.314 N ± 5.1km 22.023 E ± 4.8km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.7 (THE).

LIT 0.42 121 ePg 48 41.50 -0.9
eSg 48 49.90
FNA 0.68 314 ePg 48 47.60 0.2
eSg 48 57.60
GRG 0.70 24 ePg 48 48.20 0.4
eSg 48 58.80
THE 0.79 66 ePg 48 48.90 -0.3
eSg 49 00.70
KNT 1.08 38 iPbd 48 54.90 0.8
eSb 49 10.10
VAY 1.09 22 ePg 48 53.20 -1.1
SOH 1.13 63 eP 48 55.90 0.7
OHR 1.22 311 iPgc 48 55.40 -1.3
iSg 49 16.00
Lg 49 17.60
AGG 1.31 169 ePbc 48 57.90 -0.3
eSb 49 15.80
SRS 1.44 56 ePb 49 00.70 0.7
eSb 49 19.80
OUR 1.50 89 ePb 49 00.60 -0.2
IGT 1.52 240 ePb 49 02.30 1.2
SKO 1.71 345 ePn 48 57.50 -6.4X
iSg 49 31.00
S.D. = 0.9 on 12 of 13 obs.

JUN 28, 1990 22h 03m 47.60± 0.40s
76.148 N ± 8.8km 134.051 E ± 9.3km
DEPTH = 10.0km (geophysicist)
4.4mb (7 obs.)
LAPTEV SEA (655)

MBC 22.20 37 eP 08 44.50 -0.4
0.7s 4.00nm 4.0mb
IMA 23.65 76 eP 08 58.70 -0.6
MDJ 31.69 186 Pc 10 12.50 -0.4
BJI 37.07 203 eP 10 58.50 -0.5
NB2 38.35 319 P 11 10.30 0.6
0.6s 1.80nm 4.0mb
HFS 38.80 316 eP 11 12.50 -1.0
1.2s 13.80nm 4.5mb
GTA 39.83 223 eP 11 23.40 1.1
LZH 42.46 217 P 11 45.20 1.2
1.5s 37.00nm 4.9mb
FFC 44.57 43 eP 12 02.00 1.3
0.9s 7.00nm 4.5mb
SES 47.10 52 eP 12 21.00 0.1
GUN 53.55 235 P 13 10.30 -0.4
GKN 53.71 236 P 13 11.30 -0.4
0.9s 33.00nm 5.3mb
PKI 53.97 235 P 13 13.40 -0.4
DMN 54.00 236 P 13 13.80 -0.1
WRA 95.88 180 P 17 15.00 0.0
0.3s 0.20nm 4.1mb
S.D. = 0.8 on 15 of 15 obs.

% JUN 28, 1990 23h 57m 54.42± 0.91s
41.580 N ± 19.0km 28.134 E ± 18.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

DMK 0.37 311 iPg 58 02.10 0.0
iSg 58 08.60
CTT 0.49 153 iPg 58 04.20 -0.1
iSg 58 11.20
ISK 0.87 126 ePg 58 11.70 0.6
HRT 1.38 123 ePn 58 19.10 -0.7
IZI 1.60 140 ePn 58 23.00 0.1
S.D. = 0.7 on 5 of 5 obs.

29d 00h

* JUN 29, 1990 00h 16m 38.75 ± 1.00s
8.524 S ± 13.4km 121.529 E ± 11.5km
DEPTH = 161.0 ± 25.0 km
4.7mb (4 obs.)

FLORES ISLAND REGION (286)

KUG 2.61 129 ePd 17 40.50 18.4X
eS 18 15.00
MKS 3.87 328 ePd 17 38.00 -0.2
KNA 10.08 136 eP 19 00.50 -0.2
eS 20 49.00
MTN 10.37 115 iPc 19 05.00 0.6
eS 20 55.50
MBL 12.67 187 eP 19 33.00 -1.4
eS 21 49.00
NANU 15.10 202 eP 20 07.00 1.9
eS 22 44.00
WB5 16.79 134 iPc 20 25.90 -0.1
eS 23 27.20
WRA 16.81 134 Pd 20 26.30 0.1
0.4s 5.40nm 4.3mb
WARB 18.22 165 iPc 20 41.80 -0.6
0.5s 23.00nm 4.8mb
ASPA 19.16 143 eP 20 51.60 -0.7
0.7s 61.00nm 5.1mb
eS 24 16.80
OIS 21.17 126 iPd 21 13.10 0.6
0.3s 9.00nm 4.7mb
S.D. = 1.1 on 10 of 11 obs.

JUN 29, 1990 00h 52m 36.70 ± 0.59s
44.617 N ± 3.6km 7.198 E ± 6.4km
DEPTH = 8.2 ± 6.0 km

NORTHERN ITALY (545)

ML 1.9 (LDG), 2.0 (GEN).

DOI 0.12 163 Pc 52 39.80 0.3
eSg 52 42.00
PZZ 0.13 212 P 52 39.44 -0.4
S 52 40.97
STV 0.38 166 P 52 44.30 -0.2
S 52 49.25
ENR 0.42 158 P 52 44.87 -0.4
S 52 50.29
RRL 0.42 316 P 52 44.46 -0.9
S 52 50.10
SBF 0.77 167 Pg 52 53.00 1.0
FIN 0.83 119 P 52 52.56 -0.4
LSD 0.84 358 P 52 52.73 -0.6
IMI 0.86 145 P 52 53.18 -0.4
S 53 04.25
LPG 0.94 340 Pg 52 55.60 0.7
Sg 53 06.00
LPL 0.96 340 Pg 52 55.80 0.5
Sg 53 06.60
FRF 1.13 201 Pg 52 57.60 -0.4
Sg 53 12.00
LRG 1.31 208 Pg 53 01.40 0.3
Sg 53 18.40
LMR 1.38 201 Pg 53 02.20 0.1
Sg 53 20.00
S.D. = 0.6 on 14 of 14 obs.

* JUN 29, 1990 00h 58m 40.02 ± 1.46s
32.778 S ± 14.9km 71.441 W ± 15.3km
DEPTH = 10.0km (geophysicist)

NEAR COAST OF CENTRAL CHILE (135)

IHA 0.30 214 iPd 58 46.30 0.0
iS 58 52.10
PEL 0.73 120 iPd 58 54.10 -0.3
iS 59 06.00
RTBS 2.02 57 ePd 59 14.20 -0.3
S 59 44.00
RTCV 2.62 70 e(P) 59 24.70 1.5
ZON 2.65 63 eP 59 24.50 1.0
eS 00 00.50
RTL 2.91 61 ePd 59 25.10 -2.1
i 59 26.10
CFA 2.96 68 e(P) 59 28.10 0.2
S.D. = 1.4 on 7 of 7 obs.

* JUN 29, 1990 01h 06m 04.10 ± 0.85s
37.382 N ± 12.2km 49.690 E ± 8.8km
DEPTH = 10.0km (geophysicist)

CASPIAN SEA (338)

TEH 2.13 140 ePd 06 39.50 -0.9
TAB 2.75 285 eP 06 49.00 -0.3
KER 3.68 216 ePc 07 03.00 0.6
MAIO 7.94 95 eP 08 03.00 0.7
eS 09 37.00
HFS 32.23 327 eP 12 34.20 -0.1
0.8s 4.10nm 4.4mb
S.D. = 0.9 on 5 of 5 obs.

? JUN 29, 1990 01h 12m 43.40 ± 3.05s
16.182 S ± 60.5km 73.344 W ± 31.3km
DEPTH = 110.4 ± 13.6 km
4.5mb (6 obs.)

NEAR COAST OF PERU (115)

ARE 1.80 99 iPc 13 12.40 -2.3
iS 13 30.00
ZOBO 5.02 92 iPc 13 59.20 1.0
LPB 5.05 95 P 14 00.00 1.5
1.5s 177.78nm 5.1mb X
CNCB 5.18 98 P 14 01.30 0.8
PT10 5.39 319 e(P) 14 03.50 0.7
eS 15 07.00
CCH 7.00 101 P 14 28.00 2.8X
SIV 11.80 91 P 15 26.00 -3.4X
(S) 17 50.00
BAO 24.39 92 eP 17 51.00 -2.0
RSCP 52.78 347 eP 21 48.00 -1.3
0.9s 10.22nm 4.8mb
TUL 56.00 338 eP 22 11.40 -1.3
1.1s 24.80nm 5.1mb
LNO 56.00 338 eP 22 11.70 -0.9
ANMO 59.78 329 eP 22 39.00 -0.4
1.0s 2.00nm 4.2mb
DAU 66.42 329 eP 23 23.10 -0.1
TNP 67.88 324 eP 23 32.00 -0.3
0.8s 2.50nm 4.2mb
KVN 69.05 324 eP 23 40.00 0.5
ORV 71.34 323 eP 23 54.20 1.1
PNT 76.98 331 eP 24 27.00 1.6
0.5s 3.00nm 4.4mb
YKA 84.83 342 eP 25 05.60 -0.7
0.7s 5.80nm 4.6mb
TOL 85.15 46 eP 25 10.50 2.0
WRA 134.96 218 PKP 31 55.00 3.1X
0.6s 1.40nm
GBA 151.66 91 PKPc 32 28.50 8.0X
0.6s 5.70nm
S.D. = 1.4 on 17 of 21 obs.

JUN 29, 1990 01h 19m 10.82 ± 0.16s
44.183 N ± 1.7km 6.330 E ± 1.5km
DEPTH = 10.0km (geophysicist)

FRANCE (538)

ML 3.1 (LDG).

GANF 0.36 239 Pg 19 18.06 -0.1
Sg 19 24.42
VILF 0.55 233 Pg 19 21.80 -0.3
Sg 19 31.41
CALN 0.59 137 Pg 19 22.86 0.0
TAVF 0.60 199 Pg 19 22.85 -0.1
Sg 19 32.37
PZZ 0.64 60 Pc 19 23.47 -0.3
MVIF 0.66 116 Pg 19 23.92 -0.1
FRF 0.66 160 Pg 19 24.00 0.0
Sg 19 33.40
TOUF 0.68 104 Pg 19 24.03 -0.5
Sg 19 33.41
STV 0.72 85 Pc 19 24.70 -0.3
S 19 34.59
LRG 0.73 178 Pg 19 24.90 -0.2
Sg 19 35.50
DOI 0.73 64 Pc 19 24.80 -0.4
eSg 19 35.80
AURF 0.7B 112 Pg 19 26.20 0.2
Sg 19 37.68
ENR 0.79 86 Pc 19 25.91 -0.3
S 19 36.64
PUYF 0.79 215 Pg 19 26.58 0.3
Sg 19 38.21
RRL 0.81 24 Pd 19 26.59 0.0
S 19 36.64
AUTN 0.81 103 Pg 19 26.50 -0.2
Sg 19 37.33
LMR 0.86 171 Pn 19 27.00 -0.4
Pg 19 28.00

Sg 19 39.80
SBF 0.86 111 Pg 19 27.40 0.0
Sg 19 39.60
Sg 19 39.60
REVf 0.87 120 Pg 19 28.19 0.6
Sg 19 41.04
TREF 0.88 231 Pg 19 29.10 1.3
Sg 19 42.23
Sg 19 44.11
BNI 0.90 16 Pc 19 28.30 0.1
eSg 19 39.90
SAOF 0.90 102 Pg 19 28.15 0.0
Sg 19 40.78
PRAF 0.92 246 Pg 19 29.53 1.1
Sg 19 43.55
BERF 0.99 208 Pg 19 29.97 0.4
Sg 19 44.11
GELF 1.03 220 Pg 19 31.43 1.1
Sg 19 45.42
IMI 1.16 103 P 19 32.61 0.1
S 19 47.65
LPG 1.35 13 Pn 19 36.40 0.6
Sg 19 55.20
FIN 1.35 88 P 19 35.86 0.2
S 19 53.07
LPL 1.36 12 Pn 19 36.70 0.6
Sg 19 56.00
LSD 1.40 24 Pd 19 37.11 0.4
S 19 55.19
CKI 1.42 80 P 19 37.00 0.3
PCP 1.63 77 P 19 40.81 1.1
S 20 00.14
ORO 1.86 39 P 19 43.00 -0.1
eSn 20 05.50
ORX 1.86 38 P 19 43.61 0.4
S 20 05.21
DIX 2.05 22 eP 19 48.50 2.6
MMK 2.20 31 eP 19 51.60 3.5X
BOB 2.31 74 P 19 49.90 0.3
eSn 20 17.00
VAI 2.41 45 P 19 50.00 -0.9
LBL 2.44 297 Pg 19 51.10 -0.1
Sg 19 58.23
PGF 2.54 129 Pn 19 51.85 -1.0
PLDF 2.62 314 Pg 19 53.97 0.0
Sg 20 01.31
TMA 2.63 42 eP 19 55.60 1.3
PYM 2.83 305 Pg 19 56.58 -0.4
Sg 20 05.38
MDI 2.88 55 P 19 57.50 -0.1
AGO 2.94 311 Pg 19 58.76 0.4
SMF 3.02 325 Pn 19 59.60 0.0
Pg 20 09.00
Sn 20 35.20
Sg 20 45.40
BDI 3.08 91 P 20 00.50 0.1
eSn 20 35.50
CAF 3.14 285 Pn 20 00.80 -0.5
Sn 20 37.00
MME 3.14 88 P 20 00.90 -0.6
LBF 3.25 330 Pn 20 02.60 -0.3
Pg 20 12.00
Sn 20 53.20
LLS 3.28 34 eP 20 09.50 6.1X
AVF 3.34 322 Pn 20 04.00 -0.2
Sn 20 56.40
MAF 3.35 309 Pn 20 04.00 -0.3
BGF 3.42 315 Pn 20 05.00 -0.2
Sg 20 59.90
SSF 3.49 326 Pn 20 05.40 -0.9
Pg 20 18.00
Sg 21 02.40
LOR 3.54 332 Pn 20 06.80 -0.1
Pg 20 18.00
Sn 20 44.00
Sg 21 01.80
TCF 3.59 307 Pn 20 07.40 -0.3
RJF 3.61 290 Pn 20 07.90 0.0
BSF 3.66 5 Pn 20 09.00 0.2
Pg 20 20.20
Sn 21 08.40
LPO 3.72 280 Pn 20 09.40 -0.1
SAX 3.72 33 eP 20 15.10 5.2X
HAU 3.82 0 Pn 20 10.04 -1.0
Pg 20 22.60
Sg 21 11.00
PGD 3.90 93 P 20 12.00 -0.2
LSF 3.97 303 Pn 20 12.70 -0.4
LFF 4.07 283 Pn 20 14.30 -0.1

CRE 4.10 96 P 20 15.00 0.0
 CDF 4.28 8 Pn 20 16.00 -1.6
 Pg 20 31.60
 EPF 4.50 257 Pn 20 18.70 -1.9
 FVI 5.14 60 P 20 28.30 -1.3
 DOU 6.03 349 Pc 20 44.00 1.8
 S.D. = 0.7 on 67 of 70 obs.

JUN 29, 1990 01h 46m 29.58±0.81s
 45.034 N ± 7.4km 27.152 E ± 8.0km
 DEPTH = 10.0km (geophysicist)

ROMANIA (358)

ISR 0.44 284 iPd 46 37.50 -1.1
 CFR 0.72 78 iPd 46 42.00 -1.8
 VRI 0.89 340 ePc 46 48.00 1.4
 MLR 0.97 299 iPd 46 47.50 -0.6
 PPE 1.23 15 ePc 46 53.00 0.6
 CMP 1.51 280 ePd 47 02.00 5.2X
 CLI 1.52 3 iPc 46 57.00 0.2
 DMK 3.24 172 ePn 47 21.00 -0.5
 BZS 3.95 280 ePc 47 27.50 -4.0X
 CTT 4.00 166 ePn 47 34.00 1.8
 S.D. = 1.5 on 8 of 10 obs.

* JUN 29, 1990 02h 07m 48.46±0.66s
 32.729 N ± 13.5km 71.928 E ± 8.9km
 DEPTH = 33.0km (normol)
 4.4mb (4 obs.)

PAKISTAN (710)

QUE 4.95 241 eP 09 02.00 -0.7
 eS 09 59.20
 NDI 6.08 130 iPnc 09 21.00 2.6
 iSn 10 28.00
 iSg 11 03.50
 GKN 11.94 110 P 10 39.20 -0.3
 DMN 12.49 111 P 10 46.40 -0.5
 0.6s 28.00nm 5.6mb X
 PKI 12.75 110 P 10 49.00 -1.4
 0.5s 24.00nm 5.5mb X
 GUN 12.97 108 P 10 52.80 -0.6
 0.4s 15.00nm 5.4mb X
 UPP 44.54 324 iP 15 58.20 -0.3
 HFS 46.53 324 eP 16 14.50 0.2
 0.4s 9.80nm 5.1mb
 NB2 47.88 325 P 16 25.10 0.1
 0.5s 5.10nm 4.8mb
 MBC 71.06 3 ePn 19 05.50 0.9
 0.9s 1.00nm 3.9mb
 WB5 79.33 122 eP 19 55.70 3.0X
 e 21 32.50
 WRA 79.35 122 Pc 20 00.50 7.7X
 0.7s 1.00nm 3.9mb
 S.D. = 1.2 on 10 of 12 obs.

? JUN 29, 1990 02h 13m 57.02±1.67s
 47.451 N ± 27.4km 5.957 E ± 17.8km
 DEPTH = 10.0km (geophysicist)

FRANCE (538)
 ML 2.0 (LDG).

HAU 0.61 25 Pg 14 09.20 -0.2
 Sg 14 19.80
 BSF 0.68 56 Pg 14 10.80 0.2
 Sg 14 21.20
 LBF 1.43 252 Pg 14 22.40 -0.6
 Sg 14 43.00
 LOR 1.44 263 Pg 14 23.80 0.7
 Sg 14 43.70
 S.D. = 1.0 on 4 of 4 obs.

* JUN 29, 1990 02h 54m 30.65±3.24s
 14.937 S ± 24.8km 167.281 E ± 9.7km
 DEPTH = 111.1 ± 28.6 km
 5.0mb (8 obs.)

VANUATU ISLANDS (186)

PVC 2.96 161 iP 55 16.50 -0.3
 iS 55 53.50
 DZM 7.14 186 iPc 56 14.00 -0.1
 iS 57 30.60
 COO 21.03 220 eP 59 09.00 1.8
 CMS 25.61 226 iPc 59 52.30 1.0
 0.4s 12.00nm 4.8mb
 WB5 31.76 256 eP 00 45.80 -0.7
 WRA 31.78 256 Pd 00 46.40 -0.3

ASPA 0.6s 2.20nm 4.1mb
 32.61 249 iPc 00 53.70 -0.2
 0.7s 28.00nm 5.2mb
 PMO 43.24 96 iP 02 23.10 0.3
 1.1s 35.00nm 5.1mb
 VAH 43.47 97 iP 02 24.70 0.0
 1.1s 30.00nm 5.0mb

TPT 43.51 96 iP 02 25.10 0.1
 1.1s 30.00nm 5.0mb
 RUV 43.72 96 iP 02 26.60 0.0
 1.1s 30.00nm 5.0mb

SPA 75.16 180 iPc 06 00.50 -1.8
 0.8s 25.00nm 5.1mb
 APO 130.52 343 ePKP 13 28.50 -0.9
 0.4s 2.40nm

NB2 130.83 345 PKP 13 29.90 -0.2
 0.7s 2.00nm

CDF 142.77 338 ePKP 13 49.60 -3.0X
 0.8s 5.35nm
 SAX 142.92 335 ePKPc 13 50.30 -2.9X
 OSS 143.03 334 ePKPc 13 50.80 -2.5
 LLS 143.37 335 ePKPc 13 51.50 -2.4

HAU 143.45 338 ePKP 13 51.20 -2.5X
 0.8s 6.70nm
 MDI 143.93 333 PKP 13 51.00 -3.5X
 TMA 144.03 334 ePKPc 13 53.50 -1.5

ARV 144.07 328 PKPc 13 54.00 -0.9
 VAI 144.26 334 PKPc 13 53.70 -1.4
 ORI 144.29 320 PKPc 13 55.00 -0.4
 SFI 144.32 329 PKP 13 55.00 -0.2

PGD 144.42 329 PKP 13 55.50 -0.2
 MMK 144.45 335 ePKPc 13 55.40 -0.4
 CRE 144.49 329 PKP 13 55.00 -0.7
 DUI 144.49 324 PKP 13 53.50 -2.3

ASS 144.52 327 PKP 13 54.50 -1.2
 TDS 144.60 320 PKP 13 55.00 -0.9
 DIX 144.65 336 ePKPc 13 56.00 -0.2
 MME 144.69 330 PKP 13 55.90 -0.3

SGO 144.69 322 PKPc 13 55.20 -0.8
 ORX 144.78 335 PKP 13 54.96 -1.2
 ORO 144.79 335 PKP 13 55.00 -1.2
 FLN 144.80 346 iPc 13 55.10 -0.8
 0.8s 24.20nm

SDI 144.82 325 PKPc 13 55.50 -0.8
 BOB 144.83 332 PKP 13 55.90 -0.4
 BSS 144.84 322 PKP 13 55.50 -0.8
 AZI 144.84 325 PKP 13 55.50 -0.7

LDF 144.87 345 iPc 13 55.70 -0.4
 0.8s 16.10nm
 LOR 144.94 340 iPc 13 56.20 -0.1
 1.0s 36.00nm

P11 145.12 330 PKP 13 45.50 -11.1X
 LBF 145.15 340 iPc 13 57.10 0.4
 1.0s 36.00nm

GRC 145.16 341 PKP 13 57.39 0.8
 SSF 145.23 340 iPc 13 57.50 0.7
 GRR 145.24 346 iPc 13 57.20 0.5
 0.8s 29.55nm

LSD 145.26 335 PKPc 13 57.72 0.5
 LPL 145.39 336 ePKP 13 58.50 1.1
 1.0s 21.00nm

LPG 145.39 336 ePKP 13 58.40 0.9
 0.8s 20.15nm
 PCP 145.41 333 PKPc 13 56.90 -0.3
 SMF 145.49 340 iPc 13 57.90 0.7
 1.1s 24.40nm

AVF 145.52 340 iPc 13 57.70 0.5
 0.8s 8.05nm
 LPF 145.61 346 iPc 13 58.50 1.2
 0.8s 32.25nm

SOI 145.69 318 PKP 13 58.50 0.7
 BNI 145.79 335 PKP 13 56.50 -1.5
 FIN 145.82 333 PKP 13 57.83 -0.1
 RRL 145.85 335 PKPc 13 59.36 1.2

BGF 145.89 341 ePKP 13 59.20 1.3
 0.6s 28.85nm
 PZZ 146.06 334 PKP 13 58.03 -0.4
 ENR 146.15 334 PKP 13 58.13 -0.4

PLDF 146.15 339 PKP 14 00.33 1.9
 STV 146.18 334 PKP 13 58.13 -0.4
 IMI 146.20 333 PKP 13 59.36 0.8
 AGO 146.24 340 PKP 14 00.33 1.8

MAF 146.28 341 ePKP 14 00.60 2.0
 0.7s 11.00nm
 TCF 146.33 341 iPc 14 00.50 1.8
 0.9s 20.45nm

SBF 146.43 333 iPc 14 00.40 1.5

0.8s 18.80nm
 PYM 146.55 340 PKP 14 01.31 2.2
 LSF 146.57 342 iPc 14 00.90 1.9
 MFF 146.72 344 iPc 14 01.50 2.3
 0.6s 34.25nm

PGF 146.74 330 iPc 14 01.70 2.2X
 0.8s 16.10nm
 LBL 146.92 339 PKP 14 02.78 3.3X
 FRF 147.02 334 iPc 14 02.20 2.4X
 0.8s 13.45nm

LRG 147.23 334 iPc 14 02.90 2.8X
 1.0s 16.00nm
 LMR 147.26 334 iPc 14 02.90 2.7X
 0.8s 12.10nm

RJF 147.43 341 iPc 14 03.70 3.3X
 0.6s 10.80nm
 BCAA 147.52 254 iPc 14 04.00 2.5X
 0.4s 43.00nm

CAF 147.59 340 iPc 14 04.20 3.5X
 0.8s 8.05nm
 LFF 147.99 342 iPc 14 05.10 3.8X
 0.7s 22.05nm

LPO 148.09 341 iPc 14 05.60 4.1X
 0.6s 15.35nm
 EPF 149.84 341 iPc 14 10.90 6.6X
 0.8s 5.35nm

S.D. = 1.2 on 67 of 83 obs.

? JUN 29, 1990 03h 28m 49.72±1.80s
 35.783 N ± 11.8km 99.935 E ± 18.8km
 DEPTH = 33.0km (normol)

QINGHAI PROVINCE, CHINA (325)
 ML 3.7 (BJI).

LZH 3.19 83 ePn 29 39.00 0.2
 1.5s 600.00nm
 Pg 29 43.00
 Sn 30 14.50
 Sg 30 21.00

GTA 3.62 359 Pn 29 45.00 0.0
 0.6s 100.00nm
 Pg 29 50.40

CD2 5.82 146 ePn 30 16.00 0.0
 XAN 7.58 101 Pn 30 37.00 -3.8X
 TIY 10.21 75 Pc 31 17.00 -0.2
 CHG 16.93 183 eP 32 56.00 10.3X

S.D. = 0.2 on 4 of 6 obs.

JUN 29, 1990 03h 53m 28.76±0.11s
 21.552 S ± 3.2km 179.332 W ± 3.0km
 DEPTH = 616.3km (5 depth phases)
 5.7mb (56 obs.)

FIJI ISLANDS REGION (181)
 CENTROID, MOMENT TENSOR (HRV)

Date Used: GDSN
 L.P.B.: 14S, 29C
 Centroid Location:
 Origin Time 03:53:37.8 0.5

Lot 21.18S 0.05 Lon 179.42W 0.03
 Dep 631.0 2.2 Half-duration 2.8
 Moment Tensor: Scale 10¹⁷ Nm
 Mrr=1.56 0.09 Mtt=-2.56 0.12
 Mff=1.00 0.13 Mrt=-3.05 0.13
 Mrf=-2.49 0.13 Mtf=-0.83 0.13

Principal Axes:
 T Val= 4.32 Plg=53 Azm=119
 N 0.53 19 236
 P -4.85 30 338

Best Double Couple: Mo=4.6*10¹⁷
 NP1: Strike=111 Dip=23 Slip= 148
 NP2: 232 78 71

SVA 4.00 328 ePd 54 55.90 0.1
 VUN 4.09 329 iPc 54 54.60 -1.8
 OVA 4.23 335 ePc 54 54.60 -2.8
 KRO 4.38 344 iPc 54 56.90 -1.6

SGE 4.72 326 iPc 55 01.00 0.0
 NDF 4.84 321 iP 55 02.60 0.8
 MBU 4.91 338 iPc 55 01.90 -0.6
 NDE 5.10 345 iPc 55 03.90 -0.1

DZM 13.22 265 iPc 56 20.40 1.0
 iS 58 39.60
 ScP 03 38.90
 ScS 07 20.00

HBZ 16.12 187 P 56 47.20 0.0
 PUZ 16.60 187 eP 56 51.60 -0.1
 S 59 31.70

29d 04h

	1.0s	97.00nm			
		iP'P'	12	18.60	
		i	12	34.50	
GRR	153.20	2 ePKP	12	10.30	-0.4
	0.8s	5.35nm			
HAU	153.21	352 ePKP	12	10.30	-0.5
VBY	153.28	337 e(PKP)	12	19.30	8.4X
		i	12	33.80	
		e	14	43.00	
VOY	153.30	339 ePKP	12	11.30	0.3
		e	12	18.40	
		i	12	33.20	
BSF	153.32	351 ePKP	12	10.60	-0.4
CEY	153.37	338 e(PKP)	12	19.00	7.9X
		i	12	34.00	
OGA	153.38	344 ePKP	12	11.50	0.2
LPF	153.54	3 ePKP	12	11.70	0.6
	0.8s	8.05nm			
TRI	153.62	339 PKP	12	18.30	7.0X
		i	12	34.70	
		e	14	45.50	
LIT	153.79	320 ePKP	12	18.00	6.2X
OHR	154.11	323 ePKP	12	11.00	-1.2
	1.0s	196.00nm			
		i	12	21.30	
		i	12	37.80	
		i	12	46.20	
LOR	154.21	355 ePKP	12	11.90	-0.2
	0.8s	5.35nm			
SSF	154.45	355 ePKP	12	12.50	0.1
	1.0s	8.00nm			
LBF	154.49	355 ePKP	12	12.60	0.1
	0.8s	4.05nm			
SAL	154.68	344 PKP	12	27.00	14.3X
AVF	154.73	356 ePKP	12	12.30	-0.5
	1.2s	5.95nm			
SMF	154.83	355 ePKP	12	12.50	-0.5
	1.0s	6.00nm			
VAI	154.86	347 PKP	12	12.00	-0.9
MFF	155.00	1 ePKP	12	12.90	-0.3
	0.8s	8.05nm			
TCF	155.29	357 ePKP	12	13.30	-0.3
	1.0s	8.00nm			
LSF	155.35	359 ePKP	12	13.30	-0.4
	0.9s	9.85nm			
LPL	155.58	350 ePKP	12	14.40	0.1
	1.0s	4.00nm			
LPG	155.60	350 ePKP	12	14.60	0.2
	1.0s	4.00nm			
BCAO	155.71	228 iPKPc	12	15.20	0.1
	0.7s	171.00nm			
		id	12	47.00	
BOB	155.74	345 PKP	12	26.40	12.1X
SFI	155.84	340 PKP	12	14.50	0.2
ARV	155.85	338 PKP	12	14.00	-0.4
ITM	155.88	315 ePKP	12	26.50	11.8X
PGD	155.92	340 PKP	12	24.00	9.3X
MME	155.94	342 PKP	12	33.40	18.6X
BNI	156.04	349 PKP	12	15.00	0.2
FIR	156.15	341 ePKP	12	29.00	14.3X
		i	12	46.00	
		iSKKS	22	14.00	
RJF	156.30	359 ePKP	12	15.00	0.1
	1.2s	11.90nm			
CAF	156.66	357 ePKP	12	15.70	0.3
	1.2s	11.90nm			
LFF	156.67	360 ePKP	12	15.40	0.0
	1.0s	8.00nm			
SBF	157.05	347 ePKP	12	15.40	-0.6
	0.8s	9.40nm			
SDI	157.05	334 PKP	12	14.50	-1.5
SGO	157.34	330 PKP	12	16.00	-0.3
STS	157.37	18 ePKP	12	17.00	0.7
		e	12	52.00	
TDS	157.53	327 PKP	12	16.50	-0.1
PGF	157.93	343 ePKP	12	16.60	-0.5
	0.8s	9.40nm			
EPF	158.58	1 ePKP	12	18.40	0.7
	1.0s	9.00nm			
SOI	158.85	325 PKP	12	17.00	-1.1
GUD	160.53	11 iPKPd	12	21.00	1.0
		ic	13	05.40	
ETOR	160.65	6 ePKP	12	21.00	1.0
		e	13	06.00	
EPLA	160.67	16 ePKP	12	21.30	1.3
		e	13	06.40	
TOL	161.29	11 ePKP	12	22.50	1.9

EVIA	162.75	8 e(PKP)	12	23.20	1.0
EVAL	162.78	20 ePKP	12	23.80	1.7
EBAN	163.00	12 ePKP	12	23.50	1.2
		e	13	18.80	
AFC	163.93	12 ePKP	12	24.00	0.5
EJIF	164.22	18 ePKP	12	25.00	1.5
		ic	13	22.80	
ENIJ	164.43	9 ePKP	12	25.60	1.9
		e	13	22.00	
AVE	166.28	30 iPKPd	12	26.00	0.7
LKO	166.63	152 PKPc	12	25.88	-0.2
	0.8s	38.50nm			
IFR	167.02	22 iPKPd	12	27.50	1.4
TIO	168.27	36 iPKPd	12	28.00	1.1
		S.D. = 1.0	on 274 of 375 obs.		

JUN 29, 1990 05h 11m 38.87± 0.67s
 39.246 N ± 5.2km 23.705 E ± 7.7km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)
 MD 3.2 (ATH).

NEO	0.38	279 eP	11	46.30	-0.4
		eS	11	51.70	
LIT	1.27	313 ePbc	12	01.80	-0.6
		eSb	12	21.20	
ATH	1.27	180 eP	12	03.50	1.0
THE	1.50	338 ePb	12	06.50	0.8
SRS	1.87	357 ePn	12	11.50	0.3
KNT	2.01	342 ePnc	12	13.00	-0.2
		eSn	12	42.10	
EZN	2.11	73 eP	12	19.40	4.8X
VAY	2.25	338 ePn	12	16.30	-0.3
FNA	2.36	311 ePn	12	17.90	-0.4
ALN	2.44	47 ePn	12	18.50	-0.8
VLI	2.60	194 eP	12	20.70	-0.9
OHR	2.90	311 ePn	12	39.00	13.0X
SKO	3.22	328 ePn	12	32.00	1.5
		S.D. = 0.9	on 11 of 13 obs.		

* JUN 29, 1990 05h 17m 22.58± 1.76s
 46.258 N ± 10.4km 1.089 W ± 18.4km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.5 (LDG).

MFF	0.74	62 Pg	17	36.00	-1.0
		Sg	17	48.00	
LPF	1.78	1 Pg	17	53.20	-0.3
		Sg	18	16.60	
LSF	1.82	89 Pg	17	55.40	1.3
		Sg	18	20.00	
LFF	1.84	135 Pg	17	52.80	-1.6
		Sg	18	19.00	
RJF	2.06	117 Pg	17	58.00	0.4
		Sg	18	26.60	
GRR	2.14	4 Pg	17	59.20	0.5
		Sg	18	27.20	
LPO	2.25	134 Pg	18	01.20	0.9
		Sg	18	32.00	
TCF	2.29	88 Pg	18	04.20	3.2X
		Sg	18	36.00	
MAF	2.54	90 Pg	18	08.40	3.9X
		Sg	18	42.70	
CAF	2.58	120 Pg	18	08.60	3.4X
		Sg	18	42.40	
BGF	2.74	82 Pg	18	13.00	5.6X
		Sg	18	50.00	
		S.D. = 1.3	on 7 of 11 obs.		

* JUN 29, 1990 06h 06m 27.28± 1.44s
 24.000 N ± 11.2km 122.787 E ± 17.5km
 DEPTH = 33.0km (normol)
 3.9mb (1 obs.)
 TAIWAN REGION (243)

TWC	1.05	306 iPd	06	45.80	0.1
		eS	06	58.90	
TWF1	1.51	245 ePc	06	51.30	-1.0
TWZ	1.55	315 eP	06	54.50	1.6
ANP	1.65	316 eP	06	54.50	0.1
		eS	07	21.70	
SSE	7.21	349 P	08	11.60	-1.4
		sP	08	18.50	
		eLg	10	19.50	
WRA	45.11	165 P	14	43.00	0.6
	0.7s	1.30nm			3.9mb

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

* JUN 29, 1990 06h 25m 48.00± 0.50s
 36.691 N ± 14.0km 49.816 E ± 9.0km
 DEPTH = 10.0km (geophysicist)
 4.5mb (11 obs.)
 WESTERN IRAN (347)

TEH	1.59	126 iPd	26	16.80	0.5
TAB	3.10	297 eP	26	40.00	2.0
KER	3.21	224 eP	26	46.00	6.4X
MAIO	7.81	90 ePn	27	45.00	0.6
		eSn	29	17.00	
QUE	15.70	109 eP	29	37.80	6.8X
VR1	19.57	305 ePd	30	20.00	1.1
MLR	19.97	304 eP	30	24.00	0.7
KSP	27.76	311 eP	31	39.50	0.9
KHC	29.02	307 eP	31	50.70	0.6
CLL	29.88	311 eP	31	58.00	0.3
	1.1s	11.00nm			4.6mb
GKN	30.53	96 P	32	00.00	-3.9X
PGF	31.75	293 eP	32	13.00	-0.6
	1.0s	10.00nm			4.7mb
SBF	32.83	296 eP	32	22.70	-1.1
	1.0s	12.00nm			4.8mb
HFS	32.86	327 eP	32	23.00	0.1
	0.4s	1.00nm			4.1mb
GBA	33.75	126 Pd	32	31.20	-0.6
	0.5s	2.60nm			4.4mb
NB2	34.37	327 P	32	36.10	-0.8
	0.9s	3.70nm			4.3mb
SMF	35.31	301 eP	32	44.00	-1.1
	1.0s	7.00nm			4.5mb
AVF	35.64	301 eP	32	46.10	-1.8
	1.0s	4.00nm			4.2mb
MAF	36.20	300 eP	32	51.40	-1.2
	1.0s	4.00nm			4.2mb
GRR	38.46	304 eP	33	10.80	-0.8
	0.9s	14.75nm			4.7mb
BCAO	43.06	229 iPd	33	50.60	0.8
	0.5s	5.00nm			4.5mb
FRB	68.71	335 eP	36	54.00	0.6
PPM	117.04	326 (Pd)ff40	52	50.00	1.0X
MRX	117.58	329 (Pd)ff41	04	50.00	11.3X
		S.D. = 1.0	on 19 of 24 obs.		

? JUN 29, 1990 06h 28m 05.07± 1.29s
 39.364 N ± 16.8km 20.935 E ± 7.7km
 DEPTH = 10.0km (geophysicist)
 GREECE-ALBANIA BORDER REGION (392)
 ML 3.2 (THE).

IGT	0.50	290 iPgc	28	15.10	0.0
AGG	1.14	107 iPbc	28	26.50	0.1
		eSb	28	43.50	
LIT	1.41	58 ePb	28	30.30	-0.5
		eSb	28	49.30	
GRG	1.95	35 ePbd	28	38.90	0.4
		eSb	29	04.40	
		S.D. = 0.6	on 4 of 4 obs.		

JUN 29, 1990 06h 31m 25.89± 0.19s 28.578 S ± 4.3km 68.746 W ± 6.0km DEPTH = 123.0km (12 depth phases) 5.2mb (34 obs.) LA RIOJA PROVINCE, ARGENTINA (138) CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 115, 20C Centroid Location: Origin Time 06:31:30.3 0.7 Lat 28.665 0.06 Lon 68.83W 0.09 Dep 117.3 3.5 Half-duration 1.7 Moment Tensor: Scole 10e16 Nm Mrr=-9.60 0.59 Mtt= 4.81 1.20 Mff= 4.79 1.30 Mrt=-3.02 0.57 Mrf= 1.31 0.70 Mtf=-3.84 0.92 Principal Axes: T Val= 9.15 Plg= 9 Azm=224 N 1.08 6 133 P -10.22 79 12 Best Double Couple:Mo=9.7e16 NP1:Strike=321 Dip=36 Slip=-80 NP2: 129 55 -97	RTRS	1.71	201 iPc	31	55.10	-1.2
	RTLL	2.75	175 iPd	32	08.40	-1.3

29d 07h

PWA	1.30	189	IP	07 07.08	0.0
PLRM	1.35	173	eP	07 08.01	0.3
			eS	07 27.73	
SKT	1.36	226	eP	07 07.35	-0.5
			eS	07 25.00	
SUA	1.50	203	eP	07 11.29	0.2
			eS	07 34.20	
NEA	1.66	6	eP	07 10.95	-0.9
WRH	1.66	21	IP	07 11.28	-0.6
PMS	1.69	182	eP	07 13.43	1.1
			eS	07 36.53	
TOA	1.73	117	eP	07 12.15	-0.8
PAX	1.82	87	eP	07 14.82	0.7
			eS	07 36.85	
SDG	1.85	101	eP	07 15.41	1.0
CCB	1.87	22	IP	07 13.90	-0.8
NCG	1.99	221	eP	07 16.67	0.2
CGLM	2.02	218	eP	07 17.22	0.3
FBA	2.11	20	IP	07 17.27	-0.7
KLU	2.20	129	eP	07 21.27	2.0
GLI	2.34	150	eP	07 22.97	1.8
SLKM	2.46	189	eP	07 23.30	0.5
CNPM	3.52	195	eP	07 37.03	-0.5

24 obs. associated

• JUN 29, 1990 07h 24m 35.01 ± 0.50s
 10.133 N ± 12.3km 57.424 E ± 8.1km
 DEPTH = 10.0km (geophysicist)
 4.8mb (11 obs.) 3.9MsZ (1 obs.)
 CARLSBERG RIDGE (421)

QUE	21.84	23	eP	29 36.90	7.1X
MAIO	26.12	4	eP	30 16.00	5.0X
PKI	31.54	53	P	31 00.00	-0.2
BCAO	38.96	265	iPc	32 03.10	-0.3
			0.9s	14.00nm	4.6mb
SBF	54.65	317	eP	34 06.70	0.3
FRF	55.07	317	eP	34 09.90	0.5
LMR	55.08	316	eP	34 09.70	0.2
			0.9s	13.10nm	5.0mb
LRG	55.22	316	eP	34 10.90	0.4
LPL	55.75	319	eP	34 14.10	-0.5
CDF	56.58	322	eP	34 20.30	-0.1
			0.9s	9.85nm	4.8mb
BSF	56.64	321	eP	34 20.40	-0.4
HAU	56.98	321	eP	34 22.60	-0.5
LBF	58.07	320	eP	34 30.70	-0.1
			0.9s	8.20nm	4.8mb
LOR	58.25	320	eP	34 31.80	-0.2
			0.8s	9.40nm	4.9mb
SSF	58.40	320	eP	34 32.80	-0.3
			0.8s	6.70nm	4.8mb
BGF	58.65	319	eP	34 34.90	0.1
			0.9s	13.10nm	5.0mb
DOU	58.88	323	Pc	34 37.40	1.0
HFS	59.51	336	eP	34 40.50	-0.1
			0.8s	7.60nm	4.9mb
Z	19s		0.09um		3.9MsZ
			LR	01 31.00	
LDF	61.22	320	eP	34 52.10	-0.3
			0.7s	11.00nm	5.1mb
FLN	61.50	320	eP	34 53.80	-0.5
TOL	61.74	310	eP	34 57.00	0.8
EKA	65.18	327	Pc	35 18.50	0.1
			0.8s	4.70nm	4.7mb
WRA	81.35	112	Pc	36 53.80	0.0
			0.9s	6.70nm	4.7mb
WB5	81.36	112	eP	36 54.00	0.2

S.D. = 0.4 on 22 of 24 obs.

• JUN 29, 1990 08h 04m 10.38 ± 1.00s
 44.793 N ± 6.5km 7.234 E ± 12.4km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 1.9 (GEN).

PZZ	0.30	198	P	04 17.53	0.8
			S	04 21.32	
RRL	0.34	292	P	04 17.22	-0.4
			S	04 20.81	
STV	0.55	173	P	04 21.12	-0.6
			S	04 29.12	
ENR	0.58	167	P	04 22.11	-0.1
LSD	0.67	355	P	04 24.11	0.3

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

44.183 N ± 2.3km 6.357 E ± 2.1km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.8 (LDG). MD 2.4 (STR).

GANF	0.37	240	Pg	55 27.00	-0.6
			Sg	55 33.26	
VILF	0.57	235	Pg	55 31.93	0.4
CALN	0.58	138	Pg	55 32.47	0.7
			Sg	55 41.18	
TAVF	0.61	201	Pg	55 31.66	-0.6
			Sg	55 41.40	
PZZ	0.62	59	P	55 32.27	-0.3
			S	55 42.08	
MVIF	0.64	116	Pg	55 32.81	-0.1
FRF	0.66	161	Pg	55 32.80	-0.2
			Sg	55 42.40	
TOUF	0.66	104	Pg	55 33.03	-0.3
STV	0.70	85	P	55 33.39	-0.4
			S	55 43.44	
LRG	0.73	180	Pg	55 33.90	-0.3
			Sg	55 46.00	
AURF	0.76	113	Pg	55 35.01	0.1
			Sg	55 46.07	
ENR	0.77	86	P	55 34.62	-0.3
			S	55 45.49	
AUTN	0.79	103	Pg	55 35.35	-0.2
RRL	0.80	22	P	55 35.34	-0.3
			S	55 45.90	
PUYF	0.81	216	Pg	55 35.06	-0.5
			Sg	55 47.49	
SBF	0.84	112	Pg	55 36.60	0.4
			Sg	55 49.20	
REVF	0.85	121	Pg	55 37.41	1.0
			Sg	55 50.28	
LMR	0.86	173	Pn	55 36.00	-0.4
			Pg	55 37.00	
			Sg	55 48.00	
SAOF	0.89	102	Pg	55 37.00	0.0
BNI	0.90	15	P	55 37.00	-0.3
			eSg	55 49.50	
TREF	0.90	232	Pg	55 37.57	0.4
PRAF	0.94	247	Pg	55 38.43	0.6
			Sg	55 52.10	
BERF	0.99	209	Pg	55 39.83	1.0
			Sg	55 53.67	
GELF	1.05	220	Pg	55 40.21	0.5
			Sg	55 54.33	
IMI	1.14	103	P	55 41.60	0.3
			S	55 56.34	
FIN	1.33	88	P	55 44.78	0.2
			S	56 01.00	
LPG	1.34	12	Pn	55 45.30	0.4
			Sg	56 03.60	
LPL	1.36	11	Pn	55 45.60	0.5
			Sg	56 04.80	
LSD	1.40	24	P	55 46.21	0.5
PCP	1.61	76	P	55 49.49	1.0
			S	56 09.00	
ORX	1.85	38	P	55 51.75	-0.4
PGF	2.53	129	Pn	56 00.03	-1.7
BGF	3.43	315	Pn	56 13.60	-0.9
			Sg	57 05.60	

S.D. = 0.6 on 33 of 33 obs.

JUN 29, 1990 09h 07m 00.30 ± 0.68s
 40.640 N ± 5.7km 22.942 E ± 6.2km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 1.5 (THE).

THE	0.02	114	iPg	07 01.90	-0.3
			eSg	07 02.80	
SOH	0.36	60	eP	07 07.30	-0.5
GRG	0.52	308	eP	07 10.70	-0.1
KNT	0.52	356	eP	07 11.30	0.4
			eSg	07 18.90	
LIT	0.64	213	eP	07 12.90	-0.2
PAIG	0.91	141	eP	07 18.30	0.6

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

JUN 29, 1990 10h 53m 34.38 ± 0.32s
 52.762 N ± 7.9km 171.940 E ± 3.8km
 DEPTH = 33.0km (normol)
 4.6mb (30 obs.)
 NEAR ISLANDS, ALEUTIAN ISLANDS (5)

SMY	1.32	91	eP	53 56.70	0.2
ADK	7.03	93	eP	55 18.50	1.0
SVW	19.39	52	eP	58 02.30	2.2
TTA	19.64	46	eP	58 02.90	0.0
KDC	20.71	62	eP	58 13.60	-0.3
IMA	21.62	39	ePc	58 24.70	1.4
			0.9s	7.80nm	4.1mb
PMR	22.55	52	eP	58 33.20	0.8
FBA	23.64	43	eP	58 42.80	-0.2
			1.1s	52.60nm	5.0mb
TOA	23.99	51	eP	58 47.40	0.9
INK	29.74	38	eP	59 39.00	-0.3
MBC	34.52	23	eP	00 19.50	-1.5
			0.6s	3.00nm	4.4mb
YKA	38.40	46	eP	00 53.50	-0.3
			0.8s	6.30nm	4.5mb
PNT	41.70	66	eP	01 21.00	-0.3
			0.6s	5.00nm	4.4mb
EDM	43.04	58	eP	01 32.00	-0.2
TIY	43.25	274	eP	01 35.60	1.4
LBFM	44.97	77	eP	01 48.20	0.0
SES	45.77	61	eP	01 54.00	-0.2
WHN	46.95	265	eP	02 04.20	0.5
FFC	47.86	51	eP	02 13.00	2.5
			0.7s	7.00nm	4.8mb
KVN	48.67	77	eP	02 16.20	-1.0
LZH	49.51	279	P	02 24.30	0.6
			1.5s	34.00nm	5.2mb
GTA	49.71	285	Pd	02 25.00	-0.2
Z	30s		2.40um		5.0MsZ
TNP	49.82	77	eP	02 25.50	-0.6
			0.7s	2.22nm	4.3mb
DUG	51.02	72	eP	02 34.60	-0.5
BW06	51.20	68	eP	02 35.50	-1.1
			0.7s	2.05nm	4.2mb
MSU	52.50	74	eP	02 46.00	-0.5
RSSD	53.38	63	eP	02 51.50	-1.4
ALO	58.28	73	eP	03 27.50	-0.7
			0.9s	2.52nm	4.3mb
CHG	64.98	268	eP	04 13.10	-0.1
NB2	65.51	350	P	04 15.00	-1.0
			0.6s	8.60nm	5.0mb
GUN	66.00	285	P	04 20.00	0.0
			0.6s	22.00nm	5.4mb
HFS	66.11	348	eP	04 18.20	-1.6
			0.5s	9.20nm	5.1mb
PKI	66.53	285	P	04 23.00	-0.4
			0.6s	16.00nm	5.3mb
GKN	66.66	286	P	04 23.60	-0.4
			0.8s	15.00nm	5.1mb
DMN	66.68	285	P	04 24.00	-0.3
			0.6s	11.00nm	5.1mb
EKA	72.20	357	P	04 57.00	-0.3
			0.9s	9.80nm	4.8mb
KHC	76.83	346	P	05 25.00	0.8
CDF	78.36	350	eP	05 32.30	-0.4
FLN	78.65	355	eP	05 33.70	-0.4
			0.6s	3.60nm	4.6mb
LDF	78.80	355	eP	05 35.10	0.2
			0.8s	5.35nm	4.6mb
HAU	78.86	350	eP	05 35.20	-0.1
			0.8s	5.35nm	4.6mb
BSF	78.99	350	eP	05 35.70	-0.4
GRR	79.04	355	eP	05 36.10	-0.1
			0.7s	6.60nm	4.7mb
WB5	79.35	216	eP	05 38.10	-0.1
LPF	79.41	355	eP	05 38.20	0.0
			0.6s	3.60nm	4.5mb
WRA	79.42	216	Pc	05 38.90	0.4
			0.9s	5.70nm	4.6mb
SSF	80.07	352	eP	05 41.80	0.0
			0.6s	3.60nm	4.5mb
AVF	80.35	352	eP	05 43.40	0.1
			0.8s	4.05nm	4.5mb
SMF	80.45	352	eP	05 43.40	-0.4
TCF	80.94	353	eP	05 46.50	0.0
			0.6s	1.80nm	4.2mb
MAF	80.98	353	eP	05 47.10	0.5
			0.6s	2.70nm	4.4mb
LPG	81.30	350	eP	05 49.10	0.4
			0.8s	4.70nm	4.5mb
CAF	82.30	353	eP	05 54.40	0.8
			0.7s	4.40nm	4.6mb
PGF	83.93	347	eP	06 02.80	0.7

& JUN 29, 1990 12h 02m 27.75s
 64.525 N 147.870 W
 DEPTH = 8.6km
 CENTRAL ALASKA (1)
 <AGS-P>

WRH	0.11	241	iP	02	31.30	0.9
CCB	0.13	13	iP	02	30.74	0.1
			eS	02	32.58	
FBA	0.38	5	iP	02	34.95	-0.5
			eS	02	39.64	
GLM	0.51	24	eP	02	37.22	-0.8
			eS	02	43.52	
NEA	0.52	276	iP	02	38.00	-0.3
			eS	02	46.10	
MCK	0.92	211	eP	02	45.99	0.5
			eS	02	58.29	
DMW	1.04	116	eP	02	47.79	0.2
KTH	1.66	235	eP	02	58.33	1.1
			eS	03	20.12	
DOT	1.89	116	eP	03	02.81	2.3
			eS	03	26.35	
PAX	1.89	145	eP	03	02.83	2.2
			eS	03	27.22	
SDG	2.26	151	eP	03	10.15	4.2
			Sn	03	38.20	
FYU	2.32	27	eP	03	10.76	4.0
			eS	03	38.95	
CUT	2.39	208	eP	03	12.44	4.8
			Sn	03	41.41	
TOA	2.55	162	eP	03	15.53	5.5
SCM	2.71	175	eP	03	17.57	5.1
SML	2.74	185	eP	03	14.89	2.2
			eS	03	50.72	
GHO	2.80	190	eP	03	16.44	2.7
IMA	2.89	305	eP	03	22.82	7.9
			Sn	03	52.73	
PLRM	3.00	192	eP	03	20.91	4.6
			eS	03	59.56	
PWA	3.03	198	eP	03	22.15	5.5
SKT	3.04	215	eP	03	20.65	3.7
KLU	3.17	163	eP	03	21.83	3.0
DWY	3.71	94	P	03	24.80	-1.7

23 obs. associated

* JUN 29, 1990 12h 07m 39.70± 1.49s
 44.865 N ± 7.5km 34.741 E ± 16.1km
 DEPTH = 33.0km (normal)
 3.9mb (3 obs.)
 CRIMEA REGION (361)

KAS	3.56	192	ePn	08	36.50	2.4
			iSg	09	17.00	
TLB	4.79	269	ePc	08	51.50	0.2
CLI	5.49	291	eP	09	02.50	1.2
HRT	5.50	224	iPn	09	01.70	0.3
GBZT	5.64	226	ePn	09	03.00	-0.3
ISK	5.64	230	iPn	09	02.80	-0.5
VR1	5.74	283	ePd	09	06.00	1.2
YLV	5.84	224	ePn	09	05.00	-1.3
DMK	5.93	242	ePn	09	05.90	-1.6
CTT	5.93	233	eP	09	06.50	-1.1
MLR	6.25	279	iPd	09	13.00	0.8
SUF	18.56	348	eP	11	54.10	-1.5
			0.6s	4.00nm		3.8mb
HFS	19.81	328	eP	12	09.20	-0.8
			0.7s	10.90nm		4.3mb
NB2	21.33	328	P	12	26.60	0.9
			0.5s	2.50nm		3.9mb

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

* JUN 29, 1990 12h 10m 28.72± 1.60s
 44.901 N ± 8.4km 34.245 E ± 21.1km
 DEPTH = 33.0km (normal)
 3.7mb (2 obs.)
 CRIMEA REGION (361)

KAS	3.55	186	ePn	11	23.00	0.1
			iSg	12	06.50	
HRT	5.28	221	ePn	11	48.70	1.2
ISK	5.40	227	ePn	11	48.00	-1.0
YLV	5.62	221	ePn	11	51.00	-1.3
DMK	5.64	239	ePn	11	52.80	0.4
CTT	5.68	231	eP	11	53.50	0.6
HFS	19.59	328	eP	14	56.80	0.1
			0.4s	3.40nm		4.0mb
NB2	21.11	328	P	15	12.40	-0.1

0.6s 1.00nm 3.4mb
 S.D. = 1.0 on 8 of 8 obs.

JUN 29, 1990 12h 17m 05.60± 0.68s
 40.520 N ± 5.7km 23.701 E ± 7.2km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 2.0 (THE).

OUR	0.28	131	ePg	17	11.80	0.2
SOH	0.40	319	ePg	17	13.90	0.0
			eSg	17	18.90	
PAIG	0.59	182	iPg	17	17.20	-0.4
SRS	0.60	352	ePg	17	18.00	0.2
			eSg	17	26.90	
KNT	0.88	317	ePg	17	22.50	-0.2
			eSn	17	35.50	
LIT	1.02	246	ePg	17	25.50	0.6
GRG	1.08	294	ePg	17	25.70	-0.3
			eS	17	40.60	

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

* JUN 29, 1990 12h 38m 50.18± 0.75s
 40.441 N ± 7.0km 23.589 E ± 8.9km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 ML 1.5 (THE).

OUR	0.32	109	ePg	38	57.40	0.6
SOH	0.42	335	ePg	38	58.80	0.0
			eSg	39	05.40	
PAIG	0.52	172	ePg	39	00.10	-0.6
			eSg	39	08.60	
SRS	0.68	0	ePg	39	03.00	-0.6
KNT	0.89	324	ePg	39	06.90	-0.4
			eSg	39	20.30	
GRG	1.04	300	ePg	39	10.70	0.9
			eSg	39	25.30	

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

* JUN 29, 1990 12h 40m 08.74± 1.65s
 35.510 N ± 23.2km 27.073 E ± 8.6km
 DEPTH = 10.0km (geophysicist)
 DODECANESE ISLANDS (369)

YER	1.89	31	iPn	40	41.70	0.3
APE	1.99	322	ePn	40	47.00	4.1X
KSL	2.13	73	ePn	40	43.50	-1.3
SMG	2.20	355	ePb	40	52.50	6.7X
CIN	2.24	21	eP	40	48.00	1.6
VAM	2.35	268	iPbd	40	49.70	1.7
ELL	2.61	61	iPn	40	52.50	0.7
KHL	3.43	34	ePn	41	02.00	-1.3
BCK	3.44	54	ePn	41	04.60	1.1
VLI	3.56	291	ePn	41	03.30	-1.8
ITM	4.48	293	ePn	41	18.30	0.1

S.D. = 1.5 on 9 of 11 obs.

JUN 29, 1990 13h 29m 48.81± 0.38s
 39.144 N ± 4.1km 20.502 E ± 3.2km
 DEPTH = 56.6 ± 13.1 km
 3.8mb (2 obs.)
 GREECE-ALBANIA BORDER REGION (392)
 MD 3.9 (ATH).

IGT	0.41	341	ePg	30	09.70	10.0X
KEK	0.79	316	eP	30	01.70	-2.4
VLS	0.97	176	eP	30	06.80	0.3
LSK	1.01	4	iPg	30	04.50	-2.6
AGG	1.43	94	ePb	30	14.00	1.2
			eSb	30	35.70	
KBN	1.50	9	ePn	30	15.30	1.6
VLO	1.53	330	ePn	30	14.70	0.5
BERA	1.61	345	iPnd	30	16.10	0.8
FNA	1.77	22	ePbd	30	20.30	2.7X
			eSb	30	45.60	
LIT	1.81	57	iPbd	30	18.30	0.2
			eSb	30	43.70	
OHR	1.98	7	iPn	30	22.00	1.5
			iSg	30	51.20	
TIR	2.25	348	ePn	30	25.50	1.2
ITM	2.26	150	eP	30	25.50	1.1
LCI	2.30	302	P	30	26.50	1.6
GRG	2.32	38	ePn	30	25.50	0.1
LACI	2.56	347	iPn	30	29.00	0.4
VAY	2.69	35	iPn	30	30.30	-0.2
			iPg	30	33.70	

KNT	2.73	42	iSg	31	05.70	
SOH	2.76	52	ePc	30	30.70	-0.3
ATH	2.78	114	eP	30	32.50	0.7
SKO	2.91	14	iPd	30	34.00	0.3
			i	30	40.50	
			i	30	47.00	
			i	30	59.00	
			i	31	16.00	
			i	31	19.50	
SDA	2.97	345	ePn	30	35.00	0.5
ULC	2.97	342	iPnd	30	33.60	-1.0
BRT	3.07	305	P	30	37.50	1.6
SRS	3.08	49	iPnd	30	34.80	-1.3
VLI	3.09	141	eP	30	37.50	1.2
BCI	3.24	354	iPc	30	39.50	1.3
ORI	3.26	280	P	30	40.50	1.8
TDS	3.27	280	P	30	40.50	1.8
KKB	3.36	35	iP	30	40.00	0.0
BDV	3.38	338	ePn	30	39.00	-1.4
			eSn	31	17.20	
TTG	3.42	344	ePn	30	39.50	-1.3
			eSn	31	17.50	
HCY	3.63	336	iPc	30	41.70	-2.1
			eSn	31	22.10	
SOI	3.64	254	P	30	43.00	-1.0
NKY	3.84	343	ePn	30	45.60	-1.2
MGR	3.95	286	P	30	48.00	-0.3
VTS	4.01	30	iPg	30	50.00	0.7
ATN	4.07	258	P	30	49.50	-0.5
RZN	4.10	50	iP	30	51.00	0.4
SGO	4.24	291	P	30	53.00	0.6
RDO	4.35	61	eP	30	52.50	-1.4
KDZ	4.51	55	eP	30	53.00	-3.2X
BSS	4.68	292	P	30	59.50	1.0
VAM	4.75	141	eP	30	57.30	-2.3
MEU	4.84	247	P	30	58.80	-2.2
			eSn	31	54.30	
HVAR	5.06	324	iPn	31	10.60	6.7X
DUI	5.25	301	P	31	06.50	-0.3
PVL	5.46	40	iPc	31	07.00	-2.5X
JMB	5.68	52	eP	31	14.00	1.3
SDI	5.71	299	P	31	13.60	0.5
BUCl	6.64	37	eP	31	05.00	-21.0X
ASS	7.10	306	P	31	32.50	-0.1
ARV	7.16	310	P	31	32.00	-1.3
ALT	7.47	88	eP	31	37.00	-0.8
MLR	7.51	31	eP	31	29.00	-9.3X
PTJ	7.54	335	e(P)	31	29.70	-8.9X
CRE	7.83	308	P	31	42.50	-0.2
CEY	7.97	328	e(P)	31	42.00	-2.5X
			e(Sn)	33	12.00	
SFI	8.05	309	P	31	46.00	0.4
PGD	8.11	308	P	31	47.00	0.4
VR1	8.14	32	ePd	31	48.00	1.2
LJU	8.18	329	eP	31	44.50	-2.8X
			e(S)	33	03.50	
VOY	8.43	327	ePn	31	48.10	-2.8X
			eSn	33	19.60	
FVI	9.35	325	P	32	04.00	0.5
EKA	22.64	323	Pd	34	46.10	0.4
			0.9s	4.50nm		3.9mb
NB2	22.67	348	P	34	44.60	-1.4
			1.0s	2.90nm		3.7mb

S.D. = 1.2 on 55 of 66 obs.

* JUN 29, 1990 14h 41m 45.52± 1.08s
 7.90 S ± 9.1km 128.273 E ± 19.7km
 DEPTH = 168.6 ± 17.7 km
 4.7mb (6 obs.)
 BANDA SEA (280)

AAI	3.89	359	eP	42	46.10	0.7
KUG	5.28	241	ePd	43	49.00	45.3X
			eS	44	19.50	
MTN	5.92	152	eP	43	12.00	-0.2
			eS	44	15.00	
KNA	8.12	177	eP	43	40.60	-0.8
			0.2s	48.00nm		5.6mb
			eS	45	06.00	
WB5	13.56	155	eP	44	50.10	-2.2
			eS	47	1	

29d 14h

0.7s 28.00nm 4.7mb
 eS 48 35.00
 OIS 16.92 141 eP 45 35.00 1.1
 eS 48 33.00
 WARB 18.55 185 eP 45 54.00 1.9
 0.4s 6.00nm 4.3mb
 GUN 54.07 313 P 50 55.00 -0.5
 0.6s 11.00nm 4.8mb
 PKI 54.23 312 P 50 56.00 -0.6
 GKN 55.04 312 P 51 02.00 -0.2
 0.5s 7.00nm 4.7mb
 CNCB 150.90 147 PKPc 01 24.50 9.4X
 ZOBO 151.26 146 PKP 01 26.00 10.3X
 S.D. = 1.3 on 11 of 15 obs.

? JUN 29, 1990 17h 00m 04.38 ± 1.48s
 7.726 S ± 14.7km 128.443 E ± 32.8km
 DEPTH = 120.1 ± 34.8 km
 4.2mb (3 obs.)
 BANDA SEA (280)

AAI 4.02 356 ePc 01 05.00 -0.1
 MTN 5.73 153 eP 01 30.00 1.5
 eS 02 33.00
 KNA 7.98 178 eP 01 59.10 0.0
 eS 03 23.00
 WB5 13.38 155 eP 03 08.00 -1.9
 eS 05 30.00
 WRA 13.42 155 Pc 03 09.30 -2.0
 0.6s 5.60nm 4.2mb
 ASPA 16.69 162 eP 03 53.20 0.7
 0.8s 21.00nm 4.5mb
 eS 06 42.30
 OIS 16.71 141 eP 03 54.00 1.2
 eS 06 50.00
 WARB 18.44 185 eP 04 14.00 0.6
 0.5s 3.00nm 3.8mb
 CNCB 150.70 146 PKP 19 45.00 5.3X
 LPB 150.86 146 (PKP) 19 47.00 7.3X
 ZOBO 151.06 146 ePKP 19 29.00 -11.2X
 S.D. = 1.7 on 8 of 11 obs.

? JUN 29, 1990 17h 16m 08.78 ± 1.54s
 35.795 N ± 17.2km 23.497 E ± 15.2km
 DEPTH = 10.0km (geophysicist)
 CRETE (370)

VAM 0.69 124 iPbc 16 22.20 -0.3
 eSb 16 31.00
 VLI 1.03 334 ePb 16 27.20 -1.0
 ITM 1.87 318 ePn 16 42.00 0.8
 APE 2.08 52 ePn 16 44.50 0.4
 S.D. = 1.4 on 4 of 4 obs.

JUN 29, 1990 18h 01m 15.74 ± 0.40s
 39.858 N ± 3.6km 28.913 E ± 3.3km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

DST 0.33 221 iPg 01 22.50 -0.2
 KCT 0.58 313 iPg 01 26.50 -1.0
 IZI 0.64 42 iPg 01 27.80 -0.9
 YLV 0.79 26 iPg 01 31.00 -0.2
 iSg 01 41.50
 BNT 0.91 303 iPg 01 32.00 -1.1
 EDC 0.94 302 iPg 01 34.40 0.7
 iSg 01 48.40
 GBZT 1.01 23 ePn 01 35.30 0.4
 HRT 1.12 31 iPn 01 36.80 0.0
 GPA 1.15 68 iPn 01 38.00 0.6
 ISK 1.21 5 ePn 01 38.00 -0.3
 ALT 1.23 130 iPn 01 38.70 0.1
 ITU 1.25 4 ePg 01 39.00 0.1
 iSg 01 57.00
 CTT 1.34 344 ePn 01 40.50 0.1
 KGT 1.37 296 iPn 01 41.00 0.2
 KHL 1.60 163 iPn 01 44.00 -0.3
 EZN 1.99 270 iPn 01 50.20 0.4
 DMK 2.15 336 iPn 01 51.40 -0.7
 SMG 2.69 218 ePn 02 05.80 6.0X
 RDO 2.88 298 ePn 02 10.00 7.5X
 eSn 02 49.50
 JMB 3.14 327 eP 02 08.00 1.8
 KDZ 3.20 305 eP 02 16.00 8.9X
 DIM 3.37 312 eP 02 21.00 11.6X
 RZN 3.67 301 ePd 02 14.00 0.0
 PVL 4.30 322 eP 02 18.00 -4.6X

MMB 4.30 295 eP 02 23.00 0.2
 S.D. = 0.7 on 20 of 25 obs.

* JUN 29, 1990 18h 08m 11.17 ± 1.26s
 44.196 N ± 6.0km 6.248 E ± 14.5km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.4 (LDG).

FRF 0.70 155 Pg 08 24.80 -0.2
 Sg 08 34.00
 LRG 0.75 174 Pg 08 25.60 -0.2
 Sg 08 36.80
 LMR 0.88 168 Pn 08 28.40 0.3
 Pg 08 29.40
 Sg 08 40.40
 SBF 0.92 111 Pg 08 28.80 0.0
 Sg 08 41.00
 LPG 1.35 15 Pn 08 36.20 0.0
 Sg 08 54.50
 PGF 2.60 128 Pn 08 54.00 0.0
 Sn 09 22.80
 S.D. = 0.2 on 6 of 6 obs.

JUN 29, 1990 18h 10m 19.26 ± 0.71s
 39.867 N ± 5.7km 28.947 E ± 7.8km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

DST 0.36 223 iPg 10 26.50 -0.2
 IZI 0.62 40 iPg 10 31.70 -0.1
 iSg 10 41.00
 YLV 0.77 25 ePg 10 34.00 -0.4
 HRT 1.10 30 ePn 10 40.00 0.0
 ALT 1.21 132 ePn 10 42.00 0.1
 CTT 1.34 343 ePn 10 44.20 0.3
 S.D. = 0.3 on 6 of 6 obs.

JUN 29, 1990 18h 13m 23.57 ± 0.57s
 39.868 N ± 5.0km 28.935 E ± 5.2km
 DEPTH = 14.1 ± 4.8 km
 TURKEY (366)

DST 0.35 222 iPg 13 29.50 -1.6
 iSg 13 32.50
 KCT 0.58 311 iPg 13 33.50 -1.6
 YLV 0.77 26 iPg 13 37.50 -0.8
 iSg 13 48.00
 BNT 0.92 302 ePg 13 41.50 0.7
 EDC 0.95 301 iPg 13 42.40 1.1
 iSg 13 50.40
 GBZT 1.00 23 ePg 13 42.40 0.3
 HRT 1.10 30 iPn 13 43.50 -0.5
 GPA 1.14 68 ePn 13 45.00 0.5
 ISK 1.20 4 ePn 13 45.50 0.0
 ALT 1.22 131 iPn 13 46.00 0.0
 CTT 1.33 343 ePn 13 47.00 -0.7
 KGT 1.38 296 iPn 13 49.50 1.2
 KHL 1.61 163 iPn 13 52.50 0.8
 DMK 2.15 336 ePn 13 59.90 0.5
 S.D. = 1.0 on 14 of 14 obs.

% JUN 29, 1990 18h 24m 46.35 ± 0.83s
 43.897 N ± 8.9km 11.965 E ± 5.4km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)

SFI 0.09 287 Pc 24 48.80 -0.1
 eSg 24 51.20
 PGD 0.18 263 Pc 24 50.50 0.1
 eSg 24 54.00
 CRE 0.27 182 P 24 51.80 -0.3
 eSg 24 56.80
 RSM 0.35 85 P 24 53.80 0.2
 eSg 24 59.90
 ARV 0.81 119 P 25 01.50 -0.6
 eSg 25 13.50
 ASS 0.97 148 P 25 05.50 0.7
 S.D. = 0.6 on 6 of 6 obs.

JUN 29, 1990 18h 58m 13.91 ± 0.38s
 39.150 N ± 3.9km 20.489 E ± 2.5km
 DEPTH = 53.1 ± 9.5 km
 4.2mb (4 obs.)
 GREECE-ALBANIA BORDER REGION (392)
 MD 4.3 (ATH).

IGT 0.40 342 iPgc 58 19.90 -4.5X
 KEK 0.78 317 ePg 58 27.20 -1.7
 VLS 0.97 175 ePg 58 30.70 -0.9
 LSK 1.00 5 ePg 58 38.00 6.0X
 TPE 1.20 342 iPgd 58 33.50 -1.2
 KBN 1.49 10 ePb 58 39.10 0.4
 VLO 1.52 330 iPn 58 40.90 1.8
 BERA 1.61 345 iPnc 58 39.50 -0.8
 FNA 1.77 22 ePnd 58 43.90 1.3
 LIT 1.81 58 iPnc 58 44.00 0.7
 eSn 59 11.00
 OHR 1.97 7 IPnd 58 47.70 2.2
 iSg 59 16.80
 TIR 2.25 348 iPnd 58 51.20 1.9
 ITM 2.27 150 iPgc 58 55.00 5.3X
 LCI 2.28 302 P 58 49.30 -0.5
 GRG 2.33 39 ePn 58 51.80 1.3
 eSn 59 24.00
 THE 2.41 51 ePnc 58 52.00 0.4
 eSn 59 25.40
 LACI 2.55 347 IPnc 58 54.60 1.0
 VAY 2.69 36 iPn 58 55.70 0.1
 iSn 59 29.60
 iSg 59 31.30
 KNT 2.73 42 ePnd 58 56.70 0.5
 ATH 2.79 114 iPnd 58 57.90 0.8
 SKO 2.91 14 IPnd 58 59.00 0.2
 iPb 59 04.50
 i 59 24.50
 i 59 31.50
 iSn 59 41.50
 i 59 45.00
 SDA 2.96 346 ePn 59 00.50 1.0
 ULC 2.96 342 iPnd 58 59.30 -0.3
 eSn 59 31.60
 BRT 3.06 305 P 59 02.00 1.1
 SRS 3.09 49 ePnd 59 01.50 0.2
 eSn 59 42.20
 VLI 3.10 141 ePg 59 11.30 9.7X
 GRI 3.19 265 P 59 03.88 1.1
 BCI 3.23 354 iPnc 59 05.10 1.8
 ORI 3.25 288 P 59 03.90 0.2
 TDS 3.26 280 P 59 05.30 1.6
 KKB 3.36 35 ePd 59 05.00 -0.1
 BDV 3.37 339 iPnd 59 04.50 -0.9
 eSn 59 42.60
 TTG 3.41 345 iPnd 59 05.30 -0.5
 eSn 59 44.80
 PVY 3.46 354 ePn 59 07.30 0.6
 eSn 59 49.00
 MMB 3.47 44 ePd 59 07.00 0.2
 HCY 3.62 336 iPnd 59 07.40 -1.5
 eSn 59 48.70
 SOI 3.64 254 P 59 09.00 0.0
 IVA 3.74 353 ePn 59 11.20 0.6
 eSn 59 54.50
 NKY 3.83 343 ePn 59 11.30 -0.6
 eSn 59 54.30
 MGR 3.94 286 P 59 15.46 2.2
 VTS 4.01 30 ePd 59 15.00 0.6
 BRY 4.03 339 ePn 59 13.30 -1.3
 eSn 00 00.00
 ATN 4.06 257 P 59 15.00 0.0
 RZN 4.10 50 IPd 59 16.00 0.2
 SGO 4.23 291 P 59 19.50 2.2
 PLE 4.26 349 ePn 59 18.00 0.1
 RDO 4.35 61 ePn 59 18.20 -0.9
 PLD 4.36 46 eP 59 21.00 1.8
 APE 4.49 116 ePn 59 20.00 -1.0
 KDZ 4.51 55 IPd 59 20.00 -1.4
 EZN 4.57 80 IP 59 22.20 0.1
 ALN 4.61 66 ePn 59 22.20 -0.5
 BSS 4.66 292 P 59 24.00 0.5
 eSn 00 18.60
 MNO 4.70 257 P 59 23.00 -1.3
 VAM 4.77 140 ePn 59 25.50 0.5
 DIM 4.81 51 eP 59 24.00 -1.6
 MEU 4.84 247 P 59 24.70 -1.4
 eSn 00 19.80
 PZI 4.88 246 P 59 23.47 -3.2X
 HVAR 5.05 324 iPn 59 27.40 -1.5
 iSn 00 24.90
 SMG 5.19 104 ePn 59 30.00 -0.9
 GIB 5.20 259 P 59 34.00 2.9X
 DUI 5.24 300 P 59 32.80 1.0
 PVL 5.46 40 eP 59 31.00 -3.7X
 BEO 5.67 360 ePn 59 35.50 -2.1

JMB	5.69	52	eP	59	38.00	0.1
SDI	5.70	299	P	59	38.90	0.8
			eSn	00	43.70	
AZI	6.07	300	P	59	44.50	1.2
DMK	6.15	62	eP	59	43.00	-1.4
DST	6.32	83	iP	59	48.50	1.6
CTT	6.40	69	eP	59	46.00	-1.9
BZS	6.52	7	ePc	59	49.00	-0.4
BUC1	6.64	37	eP	00	20.00	28.8X
MTUR	6.96	28	eP	00	00.00	4.3X
CMP	6.98	27	ePc	59	45.00	-11.0X
ASS	7.09	306	P	59	57.60	0.0
			eSn	01	17.60	
ARV	7.15	310	P	59	58.00	-0.4
PSN	7.34	49	eP	59	59.00	-2.0
ZAG	7.45	335	ePn	00	01.00	-1.4
ALT	7.48	88	eP	00	04.00	0.9
ISR	7.48	35	eP	00	00.00	-3.0X
MLR	7.51	31	eP	00	00.00	0.5
PTJ	7.53	335	ePn	00	00.70	-3.0X
RIY	7.67	326	ePn	00	03.30	-2.2
RSM	7.69	311	P	00	05.60	-0.2
CRE	7.82	308	P	00	07.00	-0.8
CEY	7.96	328	ePn	00	07.80	-1.8
			eSn	01	34.90	
SFI	8.04	309	P	00	11.00	0.3
			eSn	01	39.20	
PGD	8.10	308	P	00	12.00	0.4
			eSn	01	40.00	
VRI	8.14	32	ePd	00	13.50	1.5
LJU	8.17	329	ePn	00	10.00	-2.4
			eSn	01	38.50	
TRI	8.22	325	iPnc	00	09.40	-3.8X
			iSn	01	36.20	
VOY	8.42	327	ePnc	00	13.60	-2.4
			eSn	01	44.00	
SRO	8.80	350	eP	00	44.30	23.2X
CLI	8.92	32	eP	00	29.00	6.2X
FVI	9.34	325	P	00	28.00	-0.5
ZST	9.37	346	eP	00	31.20	2.3
BOB	9.95	308	P	00	37.10	0.1
SOTA	10.53	323	iPc	00	44.20	-0.7
			iPP	00	52.80	
			iPPP	00	58.90	
			i	01	05.80	
			iS	02	37.80	
			iSS	02	53.20	
KHC	11.14	336	eP	00	51.00	-2.1
			e	01	01.60	
CLL	13.24	339	e(P)	01	31.00	10.0X
HFS	21.44	351	eP	02	57.40	-1.8X
				1.1s	9.60nm	4.1mb
Z			15s		0.03um	2.8mszx
			LR	08	33.00	
EKA	22.63	323	Pd	03	12.00	1.0
				0.7s	7.70nm	4.2mb
NB2	22.66	348	P	03	12.70	1.3
				0.5s	1.90nm	3.8mb
SUF	23.85	6	iP	03	23.40	0.6
				0.7s	10.80nm	4.5mb
TEH	24.71	88	eP	03	49.00	17.5X
MAIO	30.82	83	eP	04	27.00	0.0
						S.D. = 1.2 on 88 of 106 obs.

* JUN 29, 1990 20h 07m 19.46 ± 1.82s
45.767 N ± 11.9km 26.802 E ± 9.5km
DEPTH = 93.7 ± 21.2 km

ROMANIA (358)

VRI	0.12	332	iPd	07	33.00	0.8
ISR	0.65	196	iPc	07	36.50	0.3
MLR	0.66	246	iPd	07	35.00	-1.3
PPE	0.72	51	iPc	07	37.50	0.7
CLI	0.85	23	iPd	07	37.50	-0.6
CFR	1.11	121	iPc	07	40.00	-1.0
CMP	1.34	249	ePc	07	35.00	-8.8X
MTUR	1.34	247	eP	07	44.50	0.7
IAS	1.52	20	eP	08	00.00	14.0X
PSN	2.31	154	eP	07	57.00	0.6
PVL	2.76	203	eP	08	02.00	-0.5
RZN	4.35	201	eP	08	25.00	0.4
						S.D. = 1.0 on 10 of 12 obs.

CELEBES SEA (262)

MNI	1.60	141	ePd	21	42.50	-1.1
			eS	22	26.50	
TSM	5.95	285	iPd	22	22.80	1.3
AAI	7.69	145	eP	22	34.00	-6.8X
BKB2	7.97	241	iPc	22	46.00	2.0
KKM	8.29	294	ePd	22	47.00	-0.7
				0.8s	93.80nm	5.1mb
TRT	15.22	227	iPc	24	02.00	-2.5
				0.6s	193.60nm	5.7mb X
MTN	17.06	155	iP	24	23.10	-0.2
KNA	18.97	165	eP	24	39.00	-3.2X
				0.3s	19.00nm	5.1mb
IPM	22.84	275	ePc	25	20.50	1.4
				0.8s	27.10nm	4.8mb
WB5	24.70	156	iPc	25	35.10	-0.9
					eS	29 24.20
WRA	24.75	156	Pd	25	36.00	-0.4
				0.3s	9.00nm	4.7mb
LOE	26.17	305	eP	25	48.00	-1.2
NANU	26.38	197	eP	25	50.00	-1.0
QIS	27.81	147	iPd	26	03.50	-0.2
				0.2s	13.00nm	5.0mb
ASPA	27.98	160	iPc	26	04.70	-0.5
				0.3s	36.00nm	5.2mb
					iS	30 17.10
BDT	28.35	302	eP	26	08.50	0.1
WARB	28.84	175	eP	26	12.50	-0.1
				0.4s	18.00nm	4.8mb
CHG	29.16	305	eP	26	16.00	0.4
MAT	36.20	20	eP	27	15.00	-0.2
				1.0s	10.00nm	4.1mb
STK	38.30	155	iPc	27	34.00	1.5
				0.7s	27.00nm	4.7mb
BRS	40.90	139	iPd	27	55.00	1.1
COO	42.56	143	Pc	28	09.80	2.6X
BWA	43.56	150	iPc	28	18.20	3.1X
GUN	44.05	308	P	28	19.40	0.0
				0.4s	32.00nm	5.0mb
PKI	44.26	308	P	28	20.80	-0.3
				0.4s	9.00nm	4.5mb
DMN	44.52	308	P	28	23.00	0.0
				0.5s	9.00nm	4.4mb
CAN	44.56	150	iPc	28	25.00	2.0
GKN	45.06	308	P	28	27.40	0.2
				0.6s	19.00nm	4.6mb
GBA	47.10	286	Pc	28	42.10	-0.7
				0.4s	4.90nm	4.2mb
SUF	91.15	333	eP	33	07.90	-0.2
						S.D. = 1.1 on 26 of 30 obs.

JUN 29, 1990 20h 27m 36.26 ± 0.72s
39.417 N ± 6.9km 27.377 E ± 7.8km
DEPTH = 23.8 ± 8.5 km

TURKEY (366)

EZN	0.91	297	ePg	27	52.00	-1.2	
DST	0.99	79	iPg	27	53.50	-1.1	
			iSg	28	07.50		
EDC	1.00	22	iPg	27	54.30	-0.4	
			iSg	28	09.80		
BNT	1.03	24	iPn	27	54.90	-0.2	
KG7	1.04	357	iPn	27	54.40	-0.8	
KCT	1.12	42	iPn	27	56.50	0.0	
SMG	1.76	194	ePb	28	06.50	0.9	
IZI	1.86	60	ePn	28	08.00	0.9	
CIN	1.90	163	ePn	28	06.00	-1.6	
						iSg	28 31.00
CTT	1.91	25	ePn	28	07.00	-0.8	
ALT	2.15	99	ePn	28	09.00	-2.4	
RDO	2.23	321	ePn	28	16.50	4.1X	
						eSn	28 44.00
HRT	2.25	51	ePn	28	14.00	1.3X	
GPA	2.42	68	ePn	28	22.00	6.9X	
DMK	2.42	7	ePn	28	13.30	-1.8	
							S.D. = 1.2 on 12 of 15 obs.

JUN 29, 1990 21h 30m 46.27 ± 0.56s
37.641 N ± 8.8km 72.066 E ± 7.5km
DEPTH = 33.0km (normal)
4.4mb (4 obs.)

TAJIK SSR (715)

QUE	8.56	211	eP	32	50.50	-0.6
			eS	34	18.00	
NDI	9.92	153	eP	33	11.00	1.4

MAIO	10.15	266	eP	33	13.00	0.1	
				0.8s	16.84nm	5.3mb	
						eS	34 49.00
GKN	14.27	129	P	34	08.20	0.0	
DMN	14.84	129	P	34	16.00	0.3	
PKI	15.06	128	P	34	18.20	-0.4	
GUN	15.12	126	P	34	18.40	-1.1	
HFS	42.71	321	eP	38	41.20	-0.2	
				0.9s	5.60nm	4.3mb	
NB2	43.99	322	P	38	51.80	-0.1	
				0.7s	1.10nm	3.8mb	
MBC	66.16	3	eP	41	32.50	0.5	
				0.6s	3.00nm	4.6mb	
							S.D. = 0.8 on 10 of 10 obs.

* JUN 29, 1990 21h 50m 55.19 ± 0.92s
29.876 N ± 14.2km 57.423 E ± 10.9km
DEPTH = 33.0km (normal)
3.8mb (3 obs.)

SOUTHERN IRAN (353)

MAIO	6.64	15	ePn	52	31.00	-2.1	
			eSn	54	06.00		
BRF	7.13	240	ePn	52	40.20	0.3	
			eSn	54	04.80		
QUE	8.27	85	eP	52	56.00	0.1	
				e(S)	53 17.60		
KER	9.82	300	eP	54	02.00	44.7X	
MJMA	11.46	252	eP	53	37.70	-1.9	
UQSK	13.93	257	eP	54	11.70	-0.9	
AFIF	13.94	249	ePc	54	16.70	4.1X	
GKN	23.87	88	P	56	00.00	-6.8X	
KHC	38.27	313	P	58	15.00	1.0	
CLL	39.18	316	eP	58	23.00	1.5	
HFS	42.00	329	eP	58	44.20	-0.4	
				0.5s	1.00nm	3.8mb	
NB2	43.49	329	P	58	58.20	1.4	
				0.7s	0.60nm	3.5mb	
KIC	62.76	261	(P)	01	21.00	1.1	
YKA	87.73	356	eP	03	41.40	-0.2	
				0.9s	1.20nm	4.2mb	
							S.D. = 1.4 on 11 of 14 obs.

* JUN 29, 1990 23h 05m 09.97 ± 0.50s
16.027 S ± 14.0km 177.854 W ± 7.8km
DEPTH = 439.0 ± 6.3 km
4.4mb (7 obs.)

FIJI ISLANDS REGION (181)

NDE	2.77	258	ePc	06	14.80	-0.4	
KRO	2.93	244	ePc	06	15.90	-0.4	
OVA	3.62	242	iPc	06	26.20	4.4X	
VUN	4.04	240	iPc	06	26.20	0.8	
SVA	4.09	239	iPc	06	26.60	0.7	
						eS	06 31.20
DZM	16.01	246	iPc	08	35.20	1.9	
PMO	26.87	92	iP	10	32.60	-0.4	
				0.8s	15.00nm	4.5mb	
VAH	29.10	93	iP	10	34.40	-0.6	
				0.8s	5.00nm	4.0mb	
TPT	29.14	92	iP	10	34.80	-0.5	
				0.8s	10.00nm	4.3mb	
RUV	29.35	93	iP	10	36.50	-0.6	
				0.8s	10.00nm	4.3mb	
BRS	29.46	242	iPc	10	38.00	-0.1	
TOO	38.78	229	eP	11	56.40	0.1	
STK	40.02	239	eP	12	06.30	-0.2	
WB5	45.50	258	eP	12	48.50	-1.7	
WRA	45.52	258	Pc	12	48.90	-1.5	
				0.7s	8.70nm	4.3mb	

29d	23h				
MAW	85.80	200	iPc	17 03.80	1.6
SES	88.19	36	eP	17 14.00	0.1
GRF	145.62	350	ePKP	23 59.30	0.9
FLN	147.28	3	ePKP	24 03.10	2.0
	0.9s	11.45nm			
CDF	147.43	354	ePKP	24 03.90	2.4X
	0.7s	5.50nm			
LDf	147.47	3	ePKP	24 03.60	2.2X
GRR	147.63	4	ePKP	24 04.30	2.7X
	0.6s	3.60nm			
HAU	147.92	355	ePKP	24 05.20	3.0X
LPF	147.98	4	ePKP	24 05.40	3.2X
	0.7s	11.00nm			
BSF	148.05	354	ePKP	24 05.40	2.9X
LOR	148.82	358	ePKP	24 07.50	3.9X
	0.8s	5.35nm			
SSF	149.04	358	ePKP	24 08.30	4.4X
LBF	149.10	358	ePKP	24 08.20	4.1X
	0.7s	3.85nm			
AVF	149.31	358	ePKP	24 08.50	4.2X
SMF	149.44	358	ePKP	24 09.10	4.6X
	0.7s	3.30nm			
BGF	149.55	359	ePKP	24 09.20	4.5X
	0.6s	4.95nm			
TCF	149.83	360	ePKP	24 09.90	4.7X
LSF	149.86	1	ePKP	24 09.80	4.6X
	0.8s	6.05nm			
MAF	149.89	359	ePKP	24 10.40	5.2X
OHR	150.25	331	ePKP	24 11.30	5.3X
LPL	150.35	353	ePKP	24 12.20	6.0X
	0.8s	5.35nm			
LPG	150.37	353	ePKP	24 12.30	6.0X
	0.8s	4.70nm			
RJF	150.81	1	ePKP	24 12.30	5.7X
LFF	151.15	2	ePKP	24 13.20	6.1X
CAF	151.19	0	ePKP	24 13.30	6.0X
	1.0s	8.00nm			
LPO	151.42	1	ePKP	24 13.90	6.4X
	S.D. = 0.9	on 31 of 54 obs.			
JUN 29, 1990 23h 25m 34.30±0.32s 15.729 N ± 5.4km 147.811 E ± 5.9km DEPTH = 30.8km (3 depth phases) 5.0mb (21 obs.) 4.4MsZ (5 obs.)					
MARIANA ISLANDS REGION (215)					
GUA	3.55	233	eP	26 29.30	0.6
			eS	27 09.50	
GUMO	3.56	234	eP	26 29.30	0.6
PJG	3.56	234	eP	26 29.90	0.8
KAKJ	21.50	343	eP	30 22.90	0.3
IJDJ	21.57	338	eP	30 23.90	0.4
CHJJ	21.71	340	P	30 25.20	0.4
ISRJ	22.38	334	eP	30 33.20	1.7
MAT	22.42	339	eP	30 32.00	0.1
	1.0s	73.00nm		5.1mb	
			eS	34 42.00	
NIJJ	22.81	342	P	30 36.60	1.0
YAMJ	23.39	344	P	30 42.80	1.5
DAV	23.41	251	eP	30 41.00	-0.6
OFUJ	23.88	348	P	30 47.60	1.6
BAG	26.17	275	eP	31 08.00	-0.2
SSE	28.72	307	P	31 29.50	-1.5
	0.8s	10.00nm		4.6mb	
	Z 20s	0.50um		4.1MsZ	
	E 16s	0.70um			
		sP	31 41.20		
		eS	36 20.00		
MDJ	32.66	336	eP	32 05.70	0.0
SNY	33.35	326	eP	32 10.00	-1.7
	Z 26s	0.70um		4.3MsZ	
	N 22s	0.80um			
CN2	33.83	330	eP	32 15.50	-0.4
	Z 20s	0.60um		4.3MsZ	
		ePP	32 24.00	29km	
WHN	33.97	302	eP	32 17.00	-0.2
QIZ	36.34	281	eP	32 38.20	0.6
BJI	36.67	318	eP	32 39.50	-0.6
	2.0s	110.00nm		5.4mb	
	Z 24s	0.38um		4.1MsZ	
WB5	37.77	201	eP	32 48.50	-1.1
		i	32 58.00	32km	
WRA	37.84	201	Pc	32 49.10	-1.1
	0.9s	31.50nm		5.2mb	
TIY	38.11	312	Pc	32 53.00	0.6
XAN	39.42	305	P	33 02.30	-1.0
GVA	39.69	293	P	33 07.20	1.4

BTO	41.05	315	eP	33 17.00	0.2
ASPA	41.45	199	iPd	33 18.00	-2.0
	1.2s	33.00nm		4.9mb	
CD2	42.90	299	eP	33 30.80	-1.1
KMI	43.09	290	Pc	33 36.00	2.2
	2.5s	140.00nm		5.3mb	
	Z 20s	0.50um		4.4MsZ	
LZH	43.99	306	iPd	33 42.00	1.1
	1.8s	170.00nm		5.6mb	
	Z 17s	0.70um		4.6MsZ	
	E 15s	0.40um			
		pP	33 46.00	13kmX	
LOE	44.12	279	eP	33 42.00	0.1
WARB	46.47	207	eP	34 00.00	-0.5
	0.4s	5.00nm		4.8mb	
BDT	46.73	279	eP	34 03.00	0.3
GTA	47.96	309	Pd	34 12.40	0.0
	1.0s	30.00nm		5.3mb	
	Z 20s	0.60um		4.6MsZ	
	E 17s	0.60um			
PSI	49.82	260	ePc	34 29.30	2.5
SHL	52.92	290	iP	34 49.60	-0.8
LSA	53.61	295	P	34 57.00	1.3
WMO	57.78	312	eP	35 25.00	-0.1
	Z 22s	0.30um		4.4MsZ	
GUN	58.23	293	P	35 28.80	-0.1
PKI	58.66	293	P	35 31.20	-0.7
	0.6s	25.00nm		5.5mb	
NDI	65.81	295	eP	36 18.50	-0.6
HYB	66.06	282	eP	36 21.00	0.1
GBA	67.82	279	Pc	36 30.90	-1.2
	0.7s	5.70nm		4.8mb	
KOD	68.51	275	eP	36 34.00	-2.8X
PMO	70.47	113	iP	36 50.10	1.8
	1.2s	30.00nm		5.3mb	
TPT	70.70	112	iP	36 51.50	1.8
	1.2s	15.00nm		5.0mb	
VAH	70.79	113	iP	36 51.70	1.4
	1.2s	15.00nm		5.0mb	
RUV	70.99	112	iP	36 53.20	1.7
	1.2s	30.00nm		5.3mb	
INK	71.31	23	eP	36 51.00	-1.6
MBC	75.51	14	eP	37 16.50	-0.5
	0.8s	7.00nm		4.7mb	
MAIO	79.53	305	eP	37 41.00	0.9
		e	40 44.00		
YKA	79.65	28	eP	37 38.50	-1.6
	0.6s	2.10nm		4.3mb	
WDC	79.69	51	eP	37 44.20	3.5X
ORV	80.68	52	eP	37 46.20	0.1
CMB	81.87	53	ePc	37 52.10	-0.3
SES	84.96	39	eP	38 08.00	0.1
		pP	38 18.00	31km	
LRM	85.49	44	eP	38 10.10	-0.8
FFC	88.48	33	eP	38 24.00	-0.9
	1.2s	14.00nm		5.2mb	
SUF	89.65	337	iP	38 29.10	-1.2
	0.6s	6.70nm		5.1mb	
HFS	95.87	339	eP	38 56.50	-2.5
	0.4s	1.20nm		4.7mb	
	Z 17s	0.09um		4.3MsZ	
		LR	21 30.00		
NB2	96.04	340	P	38 57.80	-2.1
	0.8s	1.60nm		4.5mb	
SKO	104.26	322	ePd	39 37.00	0.0X
		e	39 39.80		
LKO	143.61	312	PKP	45 04.92	-3.9X
KIC	145.06	307	PKPd	45 10.32	-0.9
	0.8s	490.00nm			
TIC	145.10	308	PKPd	45 10.24	-1.1
LIC	145.37	307	PKPd	45 11.22	-0.5
ZOBO	145.48	96	PKP	45 13.00	0.4
	1.5s	52.69nm			
LPB	145.52	96	PKP	45 14.00	1.5
CNCB	145.65	97	PKP	45 13.00	0.1
SIV	152.22	95	ePKP	45 17.00	-5.4X
		i	45 38.60		
	S.D. = 1.1	on 65 of 70 obs.			
% JUN 29, 1990 23h 46m 01.37±1.27s 38.173 N ±13.8km 14.912 E ± 6.7km DEPTH = 10.0km (geophysicist)					
SICILY (398)					
MNO	0.30	215	P	46 08.00	0.4
		eSg	46 12.50		
ATN	0.43	92	P	46 10.50	0.3

GIB	0.72	256	P	46 15.50	-0.1
			eSg	46 27.50	
SOI	0.91	96	P	46 18.50	-0.2
			eSg	46 32.00	
MEU	1.07	179	P	46 21.30	-0.3
			eSg	46 36.20	
	S.D. = 0.4	on 5 of 5 obs.			
? JUN 30, 1990 00h 09m 08.58±3.16s 11.018 N ±20.1km 61.736 W ±26.0km DEPTH = 33.0km (normal)					
WINDWARD ISLANDS (95)					
MD 3.1 (TRN).					
TCE	0.32	183	eP	09 16.82	0.2
			eS	09 26.23	
TRN	0.49	138	iP	09 19.44	0.4
			eS	09 30.26	
TPP	0.75	158	eP	09 22.16	-0.5
			eS	09 37.04	
TPR	0.96	80	eP	09 25.81	0.1
BOT	1.01	82	eP	09 26.26	-0.2
	S.D. = 0.5	on 5 of 5 obs.			
& JUN 30, 1990 00h 11m 23.67s 38.677 N 112.585 W DEPTH = 0.0km					
UTAH (478)					
<SLC-P>. ML 2.8 (SLC).					
MSU	0.36	117	iPd	11 31.20	0.3
DUG	1.53	353	eP	11 51.50	-0.9
DAU	2.01	30	eP	12 01.00	1.4
	3 obs.	associated			
? JUN 30, 1990 01h 07m 39.09±1.75s 47.209 N ±32.8km 152.698 E ±34.5km DEPTH = 33.0km (normal)					
4.5mb (3 obs.)					
KURIL ISLANDS (221)					
KUSJ	6.98	237	eP	09 21.30	-0.3
			eS	10 35.20	
ASAJ	7.69	250	eP	09 36.50	4.9X
HOOJ	8.25	238	eP	09 39.60	0.3
			eS	11 10.80	
YKA	50.73	37	eP	16 37.20	0.0
	0.6s	1.20nm		4.1mb	
GKN	55.46	275	P	17 00.00	-13.0X
NB2	67.70	341	P	18 34.90	0.1
	0.7s	3.00nm		4.5mb	
HFS	67.93	339	eP	18 36.00	-0.1
	0.6s	7.00nm		4.9mb	
	S.D. = 0.3	on 5 of 7 obs.			
? JUN 30, 1990 01h 20m 12.33±5.74s 44.038 N ±35.0km 6.467 E ±29.0km DEPTH = 10.0km (geophysicist)					
FRANCE (538)					
ML 1.8 (LDG).					
FRF	0.49	165	Pg	20 22.60	0.2
			Sg	20 32.00	
LRG	0.59	188	Pg	20 24.70	0.5
			Sg	20 34.80	
LMR	0.70	177	Pn	20 25.50	-0.7
			Pg	20 26.40	
			Sg	20 38.80	
SBF	0.72	104	Pg	20 26.60	0.0
			Sg	20 39.20	
	S.D. = 0.9	on 4 of 4 obs.			
* JUN 30, 1990 01h 22m 55.78±1.03s 23.632 S ±24.7km 13.413 W ±14.3km DEPTH = 10.0km (geophysicist)					
4.6mb (3 obs.)					
SOUTH ATLANTIC RIDGE (410)					
BAO	33.46	277	eP	29 37.20	-0.3
LKO	33.85	14	P	29 39.16	-1.5
SIV	45.31	271	iP	31 17.00	1.0
LWI	46.03	69	iPd	31 21.20	-0.7
CNCB	51.40	267	P	32 04.20	0.3
LPB	51.59	267	eP	32 04.00	-1.2
ZOBO	51.69	268	P	32 06.00	-0.2
TDS	68.82	24	P	34 05.00	0.7

SDI 69.73 21 P 34 08.00 0.1
 BOB 71.20 17 P 34 17.50 0.7
 LPG 71.21 15 eP 34 17.20 0.1
 0.7s 3.30nm 4.6mb
 LPL 71.22 15 eP 34 17.20 0.1
 0.7s 4.95nm 4.7mb
 SMF 71.67 12 eP 34 19.30 -0.2
 0.7s 3.30nm 4.5mb
 AVF 71.71 12 eP 34 19.50 -0.2
 FVI 73.81 18 P 34 33.00 1.0
 GRF 76.21 16 e(P) 34 46.00 0.1
 KHC 76.33 18 eP 34 47.00 0.4
 S.D. = 0.7 on 17 of 17 obs.

? JUN 30, 1990 01h 38m 49.28±7.69s
 32.834 S ±21.5km 71.692 W ±63.6km
 DEPTH = 33.0km (normol)
 NEAR COAST OF CENTRAL CHILE (135)

PEL 0.90 110 iPd 39 05.60 0.0
 iS 39 21.50
 RTBS 2.23 59 eP 39 25.00 0.4
 S 39 56.00
 RTCV 2.84 71 e(P) 39 36.30 3.0X
 ZON 2.86 64 eP 39 32.50 -1.1
 RTLL 3.12 62 ePd 39 37.10 -0.2
 CFA 3.17 68 e(P) 39 39.00 0.9
 RTRS 3.27 36 e(P) 39 39.40 0.0
 S.D. = 0.9 on 6 of 7 obs.

JUN 30, 1990 01h 46m 45.25±1.74s
 33.743 S ±15.5km 68.348 W ±10.4km
 DEPTH = 10.0km (geophysicist)
 MENDOZA PROVINCE, ARGENTINA (139)

RTCV 1.88 355 eP 47 17.10 -0.7
 CFA 2.13 3 iPd 47 22.50 1.1
 (S) 47 48.10
 ZON 2.21 353 iPc 47 21.50 -1.0
 eS 47 48.50
 RTBS 2.28 336 eP 47 23.20 -0.2
 RTLL 2.41 358 iPd 47 25.40 0.0
 IHA 2.85 284 eP 47 31.50 0.0
 i 48 06.40
 RTRS 3.69 345 iPc 47 44.10 0.6
 ANT 10.16 349 e(P) 48 49.00 -25.2X
 CNCB 16.87 1 P 50 44.00 0.4
 LPB 17.14 1 P 50 50.00 3.1X
 ZOBO 17.40 1 P 50 51.00 0.7
 Z 16s 0.20um
 LR 57 52.00
 ARE 17.44 350 eP 50 56.00 5.5X
 SIV 18.86 22 P 51 06.80 -1.0
 BAO 25.74 51 e(P) 52 18.00 0.2
 S.D. = 0.8 on 11 of 14 obs.

? JUN 30, 1990 02h 28m 13.45±2.07s
 23.808 N ±26.7km 93.761 E ±15.6km
 DEPTH = 170.2 ± 30.8 km
 4.2mb (1 obs.)
 BURMA-INDIA BORDER REGION (294)

SHL 2.45 316 iP 28 55.50 -0.1
 iS 29 22.00
 GUN 8.19 302 P 30 11.60 1.0
 PKI 8.41 298 P 30 13.60 0.0
 DMN 8.67 298 P 30 17.00 0.0
 GKN 9.21 299 P 30 23.00 -1.0
 HYB 15.59 249 eP 31 45.50 0.0
 NDI 15.61 292 eP 31 50.00 4.3X
 eS 34 29.50
 WB5 58.75 134 eP 37 55.00 -0.9
 WRA 58.78 134 P 37 57.00 0.9
 0.4s 1.50nm 4.2mb
 S.D. = 0.9 on 8 of 9 obs.

& JUN 30, 1990 03h 33m 53.59s
 60.092 N 152.773 W
 DEPTH = 103.0km
 SOUTHERN ALASKA (2)
 <AGS-P>.

RED 0.33 0 iP 34 08.20 -0.8
 RDT 0.52 21 iP 34 09.45 -0.7
 >NNL 0.74 93 iP 34 12.59 0.7
 AUE 0.80 203 eP 34 11.24 -1.1
 CNPM 0.96 126 eP 34 13.30 -0.8

eS 34 28.74
 SPU 1.15 18 iP 34 15.81 -0.4
 CRP 1.22 14 iP 34 16.91 -0.2
 CDD 1.25 201 eP 34 16.05 -1.3
 CGLM 1.28 17 iP 34 17.49 -0.3
 eS 34 35.89
 SLKM 1.34 71 eP 34 17.83 -0.6
 NCG 1.35 13 eP 34 18.39 -0.3
 SEW 1.67 88 eP 34 21.45 -1.0
 eS 34 42.09
 SUA 1.70 35 iP 34 22.92 -0.1
 eS 34 45.62
 SVW 1.74 307 iP 34 21.90 -1.5
 PMS 1.96 52 iP 34 26.07 -0.2
 eS 34 50.38
 SKT 1.99 17 iP 34 26.09 -0.6
 PWA 2.11 41 eP 34 27.88 -0.3
 PLRM 2.33 48 eP 34 29.89 -1.3
 GHO 2.52 46 eP 34 32.60 -1.2
 CUT 2.62 26 eP 34 35.07 0.1
 SML 2.77 50 eP 34 35.62 -1.4
 GLI 2.92 72 eP 34 36.49 -2.6
 VZW 3.22 70 eP 34 41.00 -2.2
 VLZ 3.34 69 eP 34 42.62 -2.1
 KLU 3.64 64 eP 34 46.88 -2.1
 TOA 3.79 55 eP 34 49.37 -1.6
 26 obs. associated

* JUN 30, 1990 03h 42m 01.94±0.73s
 37.079 N ±10.8km 50.147 E ± 9.6km
 DEPTH = 10.0km (geophysicist)
 4.7mb (4 obs.)
 CASPIAN SEA (338)

TEH 1.67 143 iPd 42 31.40 -0.1
 TAB 3.19 289 eP 42 58.00 4.7X
 KER 3.68 223 eP 43 00.00 -0.2
 MAIO 7.55 93 ePn 43 55.00 0.2
 0.9s 9.38nm 5.0mb
 eSn 55 38.00
 QUE 15.58 111 eP 45 51.50 8.1X
 KHC 29.01 306 eP 48 07.90 4.0X
 CLL 29.83 310 iP 48 16.00 4.8X
 SOTA 30.31 302 iPd 48 17.00 1.3
 0.9s 15.40nm 4.9mb
 i 48 19.30
 HFS 32.68 327 eP 48 35.80 -0.3
 0.9s 6.50nm 4.6mb
 NB2 34.19 327 P 48 48.30 -0.9
 0.6s 0.90nm 3.9mb
 KIC 58.45 253 (P) 51 55.00 -5.5X
 S.D. = 1.0 on 6 of 11 obs.

? JUN 30, 1990 04h 25m 52.13±3.14s
 31.047 S ±46.2km 68.483 W ±20.5km
 DEPTH = 100.0km (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.28 178 iPd 26 07.00 0.1
 ZON 0.52 199 iPc 26 08.20 -0.2
 eS 26 19.70
 CFA 0.60 160 ePd 26 09.00 0.1
 eS 26 21.30
 RTCV 0.81 183 eP 26 10.90 0.0
 RTBS 1.03 233 ePc 26 13.20 0.1
 S 26 28.50
 S.D. = 0.2 on 5 of 5 obs.

JUN 30, 1990 04h 42m 33.38±0.72s
 39.040 N ± 5.5km 27.968 E ± 7.7km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

DST 0.76 42 iPg 42 48.60 0.3
 iSg 43 02.60
 KCT 1.24 14 iPn 42 57.20 0.7
 iSg 43 11.20
 EDC 1.31 357 iPn 42 57.60 0.0
 BNT 1.32 358 ePn 42 57.20 -0.5
 KHL 1.41 120 iPn 42 59.00 -0.2
 CIN 1.44 176 ePg 42 59.00 -0.5
 iSg 43 17.00
 EZN 1.49 302 ePn 43 01.00 0.8
 ALT 1.67 89 ePn 43 04.00 1.1
 YLV 1.87 35 iPn 43 04.70 -1.1
 CTT 2.13 9 ePn 43 08.80 -0.7
 ISK 2.19 22 ePn 43 13.00 2.7X

HRT 2.21 36 ePn 43 14.00 3.4X
 S.D. = 0.8 on 10 of 12 obs.

JUN 30, 1990 06h 16m 45.71±0.41s
 44.152 N ± 3.7km 12.159 E ± 4.5km
 DEPTH = 19.2 ± 4.3 km
 NORTHERN ITALY (545)
 ML 3.2 (LDG), 3.3 (VIE).

RSM 0.31 136 Pc 16 52.90 0.4
 eSg 16 57.30
 SFI 0.32 224 Pc 16 52.80 0.1
 eSg 16 57.50
 PGD 0.42 229 Pc 16 54.40 -0.1
 eSg 17 00.40
 CRE 0.54 196 P 16 56.20 -0.3
 eSg 17 05.30
 ARV 0.86 139 Pd 17 02.20 0.3
 eSg 17 16.20
 MME 1.05 273 P 17 06.20 0.9
 eSg 17 22.90
 BDI 1.13 266 P 17 07.00 0.6
 eSn 17 23.50
 ASS 1.14 161 P 17 06.90 0.3
 eSn 17 24.50
 PII 1.26 251 P 17 09.20 1.0
 eSn 17 27.00
 TRI 1.93 36 iPc 17 16.90 -1.0
 i 17 41.10
 i(Sg) 17 49.00
 AQU 2.01 153 P 17 21.50 2.3
 BOB 2.04 289 P 17 21.10 1.5
 VOY 2.25 33 iPn 17 22.50 -0.1
 eSn 17 48.50
 CEY 2.26 45 e(Pn) 17 28.10 5.4X
 e(Sn) 17 53.00
 e 18 55.00
 AZI 2.36 156 P 17 25.00 1.0
 MDI 2.38 314 P 17 25.20 0.9
 FVI 2.48 10 P 17 26.90 1.1
 LJU 2.53 41 e(Pn) 17 33.50 7.0X
 eSn 17 58.00
 PGF 2.81 236 Pn 17 31.00 0.5
 Sn 18 04.50
 OGA 2.83 344 ePn 17 40.90 9.9X
 VAI 2.95 307 P 17 33.00 0.6
 VDL 3.01 322 eP 17 35.20 1.7
 TMA 3.04 311 eP 17 34.80 0.9
 SOTA 3.14 348 iPnc 17 38.10 2.8
 iPg 17 47.00
 iSn 18 16.20
 iSg 18 29.90
 PTJ 3.21 56 ePn 17 47.00 10.7X
 eSn 18 31.00
 SBF 3.42 267 Pn 17 40.00 0.8
 Sn 18 19.60
 LLS 3.51 322 eP 17 42.70 2.1
 MMK 3.53 304 eP 17 41.10 0.2
 SAX 3.67 329 eP 17 45.40 2.4
 DIX 3.87 302 eP 17 46.80 0.9
 FRF 4.03 263 Pn 17 48.00 0.2
 Sn 18 33.50
 LPG 4.08 291 Pn 17 46.20 -2.5
 LMR 4.17 261 Pn 17 50.40 0.5
 Sn 18 38.00
 ZLA 4.25 323 eP 17 52.10 1.2
 LRG 4.25 263 Pn 17 51.80 0.8
 Sn 18 40.00
 SLE 4.43 326 eP 17 53.50 0.1
 KHC 5.08 11 ePg 18 01.60 -1.0
 Sg 18 58.90
 BSF 5.25 316 Pn 18 04.60 -0.5
 Sn 19 00.60
 CDF 5.44 323 Pn 18 07.40 -0.5
 HAU 5.58 316 Pn 18 09.20 -0.6
 Sn 19 10.40
 SMF 6.36 296 Pn 18 19.80 -1.0
 LBF 6.40 299 Pn 18 20.50 -0.9
 LOR 6.59 301 Pn 18 23.00 -1.1
 Sn 19 33.60
 SSF 6.73 299 Pn 18 24.80 -1.2
 BGF 6.99 293 Pn 18 27.60 -2.0
 S.D. = 1.2 on 41 of 45 obs.

* JUN 30, 1990 06h 22m 54.24±2.02s
 32.943 S ±12.8km 72.493 W ±17.5km
 DEPTH = 33.0km (normol)

30d 06h

4.4mb (2 obs.)
OFF COAST OF CENTRAL CHILE (134)

Table with columns for station name, time, depth, and coordinates. Includes stations like IHA, PEL, CHCH, RTBS, RTCV, ZON, RTRS, CFA, ANT, ARE, CNCB, LPB, ZOBO, SIV, PPD, LKO.

S.D. = 1.1 on 12 of 16 obs.
JUN 30, 1990 07h 44m 56.82±0.72s
24.402 N ± 8.5km 123.418 E ± 8.8km
DEPTH = 33.0km (normal)
4.3mb (5 obs.) 3.8Msz (1 obs.)

SOUTHWESTERN RYUKYU ISLANDS (246)

Table with columns for station name, time, depth, and coordinates. Includes stations like TWC, TWZ, TWQ, TWK, QZH, SSE, NJ2, WHN, GYA, XAN, CD2, GTA, WB5, WRA, ASPA, HFS, NB2, YKA.

S.D. = 1.2 on 18 of 18 obs.
% JUN 30, 1990 08h 33m 52.04±0.62s
40.190 N ± 5.0km 29.367 E ± 5.3km
DEPTH = 10.0km (geophysicist)

Table with columns for station name, time, depth, and coordinates. Includes stations like IZI, YLV, GBZT, HRT, GPA, DST, ISK, BNT, EDC, CTT, ALT, DMK.

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

% JUN 30, 1990 08h 33m 52.70±1.49s
39.538 N ±15.3km 22.339 E ± 8.4km
DEPTH = 33.0km (normal)

GREECE (364)

Table with columns for station name, time, depth, and coordinates. Includes stations like LIT, PAIG, GRG, FNA, OUR, SOM, IGT, KNT, SRS.

S.D. = 1.1 on 9 of 9 obs.
% JUN 30, 1990 08h 44m 46.07±1.28s
39.521 N ± 7.6km 15.134 E ±11.5km
DEPTH = 10.0km (geophysicist)

SOUTHERN ITALY (390)

Table with columns for station name, time, depth, and coordinates. Includes stations like MGR, TDS, SGO, ORI, BSS, SOI.

S.D. = 0.6 on 6 of 6 obs.
% JUN 30, 1990 09h 27m 12.89±0.81s
37.646 N ±11.5km 69.328 E ±13.7km
DEPTH = 33.0km (normal)
4.0mb (4 obs.)

AFGHANISTAN-USSR BORDER REGION (717)

Table with columns for station name, time, depth, and coordinates. Includes stations like QUE, MAIO, NDI, GKN, DMN, PKI, GUN, HYB, GBA, HFS, NB2, YKA.

S.D. = 0.5 on 5 of 12 obs.
JUN 30, 1990 09h 41m 02.28±0.21s
28.453 N ± 5.2km 43.735 W ± 2.4km
DEPTH = 10.0km (geophysicist)
5.1mb (52 obs.) 5.1Msz (16 obs.)

Table with columns for station name, time, depth, and coordinates. Includes stations like NORTH ATLANTIC RIDGE, CENTROID, MOMENT TENSOR, TIC, LRG, LMR, LIC, FRF, KIC, BNI, LPL, LPG, HAU.

P -1.27 90 180
Best Double Couple: Mo=1.5*10**17
NP1: Strike=185 Dip=45 Slip=-90
NP2: 5 45 -90

Table with columns for station name, time, depth, and coordinates. Includes stations like TBM, TRN, TPP, CBM, RSNY, PTO, BLA, JSC, ERUA, EJIF, EHOR, MAL, TOL, TKL, RSCP, ETOR, EROQ, PWLA, EBR, EPF, LPF, GRR, MFF, LFF, FLN, LDF, LPO, RJF, LSF, CAF, FVM, TCF, LKO, POW, OLY, AVF, SSF, SMF, LOR, LBF, SNF, DOU.

30d 11h

KNA 10.57 185 eP 18 10.90 -1.1
0.3s 25.00nm 5.1mb
eS 20 02.00
WB5 15.30 163 eP 19 10.00 -1.4
i 19 13.80
eS 21 51.10
WRA 15.35 164 Pc 19 10.60 -1.4
0.7s 6.90nm 4.2mb
KKM 17.54 309 ePd 19 37.70 0.1
MBL 18.61 210 iPc 19 49.00 0.2
0.3s 20.00nm 5.1mb
ASPA 18.82 168 eP 19 50.50 -0.6
0.6s 109.00nm 5.5mb
eS 23 11.80
WARB 21.12 188 eP 20 16.00 1.9
0.3s 7.00nm 4.7mb
NANU 22.12 217 iPc 20 25.00 1.2
0.3s 15.00nm 5.0mb
MEKA 23.89 206 eP 20 41.00 0.2
0.3s 11.00nm 5.0mb
MRWA 27.26 207 eP 21 11.30 -0.2
BWA 33.85 152 eP 22 11.80 2.5
CAN 34.86 152 eP 22 19.60 1.8
MAT 42.22 10 eP 23 18.00 -0.7
0.9s 5.88nm 4.1mb
GUN 53.60 310 P 24 47.00 -0.1
PKI 53.79 310 P 24 48.00 -0.5
0.6s 19.00nm 4.9mb
DMN 54.04 310 P 24 50.00 -0.2
0.5s 36.00nm 5.2mb
KOD 54.31 286 eP 24 52.00 -0.4
GKN 54.59 310 P 24 53.90 -0.2
GBA 55.21 290 Pc 24 56.90 -1.5
0.6s 6.00nm 4.5mb
CNCB 151.98 142 iPKPc 35 20.20 9.1X
LPB 152.12 141 (PKP) 35 02.00 -9.1X
ZOBO 152.30 141 PKP 35 21.20 9.6X
S.D. = 1.3 on 21 of 24 obs.

? JUN 30, 1990 12h 08m 51.64 ± 2.99s
40.978 N ± 24.5km 21.511 E ± 16.9km
DEPTH = 10.0km (geophysicist)
GREECE (364)
FNA 0.22 208 eP 08 56.40 0.0
eS 08 58.70
GRG 0.67 92 iP 09 04.90 -0.2
LIT 1.15 139 eP 09 13.20 0.0
SOH 1.41 96 eP 09 17.50 0.2
S.D. = 0.2 on 4 of 4 obs.

* JUN 30, 1990 12h 33m 40.15 ± 1.17s
31.230 S ± 11.4km 68.654 W ± 13.8km
DEPTH = 33.0km (normal)
SAN JUAN PROVINCE, ARGENTINA (137)
ZON 0.32 184 iPd 33 49.50 1.3
eS 34 01.50
CFA 0.52 137 ePc 33 51.00 -0.1
RTCV 0.64 171 iPc 33 51.80 -0.9
RTBS 0.81 238 eP 33 54.70 -0.3
S 34 08.60
RTRS 1.26 326 iPc 34 01.60 0.0
eS 34 20.90
S.D. = 1.2 on 5 of 5 obs.

& JUN 30, 1990 12h 38m 08.94s
63.494 N 150.787 W
DEPTH = 8.8km
CENTRAL ALASKA (1)
<AGS-P>

KTH 0.08 315 iP 38 11.34 -0.1
eS 38 13.11
HUR 0.73 134 eP 38 22.72 -0.8
eS 38 32.28
MCK 0.86 73 eP 38 25.33 -0.3
eS 38 36.23
CUT 1.12 168 eP 38 29.86 -0.1
eS 38 45.70
WRH 1.54 49 eP 38 37.57 0.9
SKT 1.56 193 eP 38 36.75 -0.1
CCB 1.75 47 eP 38 39.79 0.2
PWA 1.90 167 eP 38 42.23 0.5
GHO 1.93 153 eP 38 41.84 -0.5
SML 2.04 145 eP 38 42.93 -0.9
PLRM 2.06 157 eP 38 43.32 -0.8

NCG 2.19 197 eP 38 45.90 -0.3
CGLM 2.27 195 eP 38 47.59 0.3
PMS 2.33 165 eP 38 48.98 0.9
TOA 2.54 121 eP 38 51.69 0.7
KLU 3.02 129 eP 38 56.87 -1.0
16 obs. associated

* JUN 30, 1990 13h 09m 51.73 ± 1.21s
10.330 S ± 14.4km 120.048 E ± 11.5km
DEPTH = 33.0km (normal)
4.0mb (2 obs.)
SUMBA ISLAND REGION (287)

KNA 10.06 123 eP 12 35.80 18.8X
0.3s 66.00nm
eS 14 28.00
MBL 10.77 181 eP 12 27.10 0.3
eS 14 27.00
MTN 11.14 104 eP 12 31.00 -0.9
e 14 37.00
NANU 12.91 199 eP 12 55.00 -0.6
eS 15 13.00
WB5 16.76 126 eP 13 46.70 1.0
WRA 16.77 126 P 13 49.00 3.1X
0.5s 0.90nm 3.2mb
GBA 48.51 299 P 18 34.00 0.2
0.6s 5.40nm 4.8mb
S.D. = 1.1 on 5 of 7 obs.

* JUN 30, 1990 13h 58m 41.21 ± 1.39s
39.371 N ± 11.9km 21.989 E ± 11.8km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.9 (ATH). ML 3.0 (THE).

LIT 0.82 28 eP 58 56.00 -1.2
eS 59 09.40
IGT 1.29 278 eP 59 04.00 -1.2
eS 59 23.60
FNA 1.49 342 eP 59 07.80 -0.2
VLS 1.62 223 ePn 59 10.00 0.1
eSn 59 35.50
KEK 1.73 282 ePn 59 12.30 0.8
eSn 59 37.50
KNT 1.92 21 eP 59 13.90 -0.3
OHR 1.96 333 ePn 59 15.20 0.3
VAY 2.00 13 ePn 59 17.00 1.7
SKO 2.63 351 ePn 59 30.00 5.5X
S.D. = 1.1 on 8 of 9 obs.

* JUN 30, 1990 14h 03m 00.17 ± 3.15s
51.281 N ± 24.8km 15.931 E ± 17.1km
DEPTH = 10.0km (geophysicist)
POLAND (548)

KSP 0.49 152 iP 03 10.20 0.0
0.3s 34.00nm
iS 03 19.10
BRG 1.32 253 iPg 03 24.50 0.0
iSg 03 43.50
PRU 1.57 215 Pn 03 28.20 0.1
Pg 03 30.00
Sn 03 47.00
Sg 03 53.50
CLL 1.84 272 iPg 03 32.00 0.0
eSg 03 57.00
KHC 2.63 216 ePn 03 43.30 -0.1
Pg 03 49.50
Sg 04 26.00
MOX 2.80 259 ePg 03 52.00 6.2X
iSg 04 31.00
S.D. = 0.1 on 5 of 6 obs.

JUN 30, 1990 14h 10m 30.74 ± 1.02s
6.154 S ± 5.7km 130.423 E ± 7.8km
DEPTH = 153.6 ± 12.1 km
4.9mb (12 obs.)
BANDA SEA (280)

AAI 3.31 318 ePd 11 24.30 1.6
MTN 6.69 174 iP 12 06.90 -0.8
MKS 10.94 274 e(P)d 13 16.50 12.4X
WB5 14.17 165 eP 13 43.80 -2.0
i 13 46.10
eS 16 15.50
WRA 14.23 165 Pc 13 44.80 -1.7
0.7s 12.20nm 4.3mb

OIS 16.86 149 eP 14 19.00 -0.2
eS 17 16.50
TRT 17.73 264 ePc 14 28.30 -1.2
ASPA 17.73 169 eP 14 29.80 0.2
0.7s 20.00nm 4.6mb
iS 17 36.20

MBL 18.10 214 iPd 14 34.10 0.4
0.4s 25.00nm 4.9mb
eS 17 42.00
KKM 18.65 310 ePc 14 39.70 0.1
0.9s 85.10nm 5.1mb
WARB 20.24 190 iPd 14 57.50 1.6
0.3s 7.00nm 4.7mb
eS 18 35.00
CTA 20.70 133 iPd 15 02.60 2.1
1.0s 21.00nm 4.5mb
NANU 21.74 220 Pc 15 13.00 2.3
0.3s 11.00nm 4.8mb
MEKA 23.29 208 eP 15 26.00 0.2
GUA 24.28 36 eP 15 35.80 0.4
0.7s 60.27nm 5.2mb
GUMO 24.30 36 eP 15 35.80 0.3
PJG 24.30 36 eP 15 35.60 0.1
MRWA 26.68 209 eP 15 58.30 1.0
PSI 32.66 285 ePd 16 49.50 -0.9
MAT 43.09 9 eP 18 16.00 -1.2
LZH 48.86 331 eP 19 02.50 -0.4
GUN 54.72 310 P 19 46.90 -0.1
0.6s 56.00nm 5.6mb
PKI 54.90 310 P 19 47.80 -0.5
0.6s 15.00nm 5.0mb
DMN 55.15 310 P 19 49.80 -0.2
0.6s 23.00nm 5.2mb
GKN 55.71 310 P 19 53.70 -0.2
GBA 56.14 291 Pd 19 56.10 -0.8
0.5s 5.50nm 4.7mb
HYB 56.33 296 eP 19 58.00 -0.2
CHCH 135.42 155 ePKP 29 28.00 -6.6X
PEL 136.08 154 ePKP 29 25.00 -10.9X
CNCB 150.82 142 PKP 30 11.00 8.9X
ZOBO 151.13 141 PKP 30 12.00 9.4X
S.D. = 1.1 on 26 of 31 obs.

% JUN 30, 1990 14h 47m 17.49 ± 0.86s
37.758 N ± 8.1km 15.125 E ± 6.6km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO 0.38 297 P 47 25.50 0.1
eSg 47 32.00
ATN 0.48 34 P 47 26.50 -0.8
MEU 0.67 193 P 47 30.60 -0.3
eSg 47 43.00
SOI 0.80 67 P 47 33.80 0.8
GIB 0.90 285 P 47 35.00 0.2
eSg 47 49.00
S.D. = 0.9 on 5 of 5 obs.

JUN 30, 1990 14h 51m 07.94 ± 0.53s
9.857 N ± 5.1km 84.392 W ± 3.4km
DEPTH = 8.1 ± 3.3 km
5.2mb (50 obs.) 5.2MsZ (14 obs.)
COSTA RICA (78)

Ms 5.0 (BRK). Slight damage at
Santiago de Puriscal and San
Jose. Felt throughout most of
Costa Rica.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 33C
Centroid Location:
Origin Time 14:51:16.3 0.8
Lat 9.99N 0.06 Lon 84.66W 0.06
Dep 15.0 FIX Half-duration 2.0
Moment Tensor: Scale 10¹⁷ Nm
Mrr=-0.44 0.06 Mtt=-1.01 0.06
Mff=1.45 0.09 Mrt=-1.03 0.16
Mrf=0.31 0.22 Mtf=1.13 0.06
Principal Axes:
T Val= 1.89 Plg= 2 Azm=112
N 0.24 57 206
P -2.13 32 21
Best Double Couple: Mo=2.0*10¹⁷
NP1: Strike=161 Dip=66 Slip=-157
NP2: 62 70 -26
PTCR 0.07 206 P 51 09.80 -0.4

EPA	0.24	303	P	51	13.00	0.1	BW06	39.49	331	P	58	38.70	-2.2	1.1s	18.30nm	5.0mb			
HDC2	0.31	57	P	51	14.80	0.5		1.0s	4.00nm			4.0mb	X	BGF	81.03	44 eP	03	23.90	-1.0
OCM	0.43	85	P	51	15.80	-0.8	CLC	39.72	316	eP	58	44.00	1.3	1.1s	26.85nm	5.2mb			
IRZ2	0.50	77	P	51	18.10	0.0			e	03	01.00		AVF	81.36	44 eP	03	25.20	-1.4	
QPS	0.52	150	P	51	17.90	-0.5	ISA	40.24	315	eP	58	49.00	2.0	1.1s	13.45nm	4.9mb			
CDM	0.69	116	P	51	21.00	-1.0	TNP	40.72	319	P	58	51.00	-0.1	SSF	81.44	44 eP	03	25.80	-1.2
JTS	0.70	308	P	51	22.20	0.2		0.8s	13.73nm			4.7mb	LOR	81.66	43 eP	03	26.80	-1.4	
JUD	1.18	285	P	51	29.40	-0.8	SYP	40.75	313	eP	58	55.00	3.7X	1.1s	17.10nm	5.0mb			
RIN3	1.34	314	P	51	32.70	-0.2	BCH	41.14	313	P	58	56.50	2.0	1.1s	19.55nm	5.1mb			
DVD	2.38	126	iPc	51	48.00	0.1	KVN	41.84	320	P	58	59.70	-0.6	SMF	81.71	44 eP	03	27.10	-1.4
UPA	4.87	100	e(P)	52	23.50	0.2	PRI	42.02	314	eP	59	03.70	2.0	1.1s	17.10nm	5.0mb			
			i	53	20.00		PRS	42.61	314	eP	59	07.50	1.1	LBF	81.77	44 eP	03	27.10	-1.7
			iS	53	21.00		CMB	42.78	317	eP	59	10.40	2.6	DOU	81.88	41 P	03	28.50	-0.7
BOG	11.49	116	eP	53	58.00	2.3	SAO	42.87	315	eP	59	10.70	2.2	ENN	82.55	40 eP	03	33.00	-0.2
			eS	56	12.00		LRM	43.14	331	eP	59	10.80	-0.1	1.0s	19.00nm	5.2mb			
BMG	11.53	103	iPd	53	57.00	0.9	MHC	43.29	315	eP	59	13.80	1.7	WIT	82.87	38 eP	03	35.00	0.7
SDV	13.61	93	eP	54	23.00	-1.0	GCC	43.39	315	eP	59	14.20	1.5	WTS	83.66	39 eP	03	35.50	0.2
			iS	56	50.50		BKS	43.96	316	e(P)	59	19.50	2.2	1.1s	44.00nm	5.6mb			
TOV	14.39	89	eP	54	34.00	-0.1		0.8s	38.00nm			5.3mb	HAU	83.25	43 eP	03	35.50	-1.0	
FISA	14.87	83	iP	54	41.40	1.0	Z	20s	2.20um			5.1MsZ	BSF	83.57	43 eP	03	37.00	-1.2	
MORO	15.85	85	iP	54	53.60	0.4	N	20s	1.10um				1.0s	14.00nm	5.1mb				
PLAY	16.64	88	iP	55	04.20	0.7	E	20s	2.00um				CDF	83.82	42 eP	03	38.40	-1.0	
GUAC	16.86	87	iPd	55	07.50	1.3		e(S)		06	19.60		LRG	83.85	47 eP	03	39.10	-0.4	
			eS	58	23.50		BRK	43.98	316	eP	59	20.30	2.9	1.0s	28.00nm	5.4mb			
CAR	17.20	86	iPc	55	10.50	0.1	BAO	44.06	125	eP	59	18.00	-0.5	LMR	83.97	47 eP	03	39.40	-0.8
			iS	58	24.00		ORV	44.32	318	eP	59	21.90	1.7	0.9s	14.75nm	5.2mb			
OLLA	17.33	88	iP	55	11.60	-0.4	MIN	44.81	319	e(P)	59	24.00	-0.4	FRF	84.04	47 eP	03	40.00	-0.5
PORP	19.05	63	eP	55	35.00	1.8	LBFM	45.53	320	P	59	29.60	-0.5	NB2	84.16	20 P	03	40.60	-0.2
SJG	19.50	63	e(P)	55	40.00	1.3	WDC	45.54	319	eP	59	27.00	-3.0	1.1s	25.10nm	5.4mb			
NNA	22.96	161	eP	56	11.50	-2.6	SES	46.02	336	eP	59	36.00	2.3	DOI	84.34	46 P	03	44.00	1.9
	1.0s	38.00nm			4.9mb		FFC	46.89	346	eP	59	39.00	-1.4	SBF	84.57	47 eP	03	42.60	-0.6
		eS	00	28.50				0.7s	14.00nm			5.2mb	1.2s	59.50nm	5.7mb				
SGS	23.50	8	P	56	21.00	1.9	NEW	47.12	330	P	59	40.50	-1.9	MMK	84.62	44 ePd	03	44.60	0.9
JSC	24.48	6	P	56	28.70	0.1		1.2s	0.57nm			3.5mb	X	ORO	84.69	45 P	03	45.00	1.1
LHS	24.73	7	P	56	31.00	0.0	PNT	49.05	330	eP	59	56.00	-1.4	ZLA	84.69	43 ePd	03	44.60	0.8
PT06	24.85	161	iPc	56	35.70	3.3X		0.8s	10.00nm			4.9mb	SLE	84.72	43 ePd	03	43.90	0.0	
RSCP	25.65	358	P	56	41.30	1.5	FRB	54.97	9	eP	00	38.00	-3.6X	LLS	85.20	43 ePd	03	47.00	0.5
TKL	25.69	1	P	56	40.80	0.6	YKA	56.91	344	eP	00	51.50	-4.1X	VAI	85.20	44 P	03	47.50	1.3
GBTN	25.69	0	P	56	41.10	0.9		0.9s	13.20nm			5.0mb	TMA	85.23	44 ePd	03	46.70	0.0	
UYO	25.90	341	e(P)	56	41.70	-0.4	INK	66.57	342	eP	01	58.00	-2.4	SAX	85.37	43 ePd	03	47.80	0.3
OLY	26.33	347	P	56	45.00	-1.1	MBC	69.00	352	eP	02	13.50	-2.0	HFS	85.54	30 eP	03	45.70	-1.9
BLA	27.47	7	eP	56	58.80	2.2	PMR	69.48	332	P	02	16.00	-2.7		0.9s	17.30nm	5.2mb		
	1.4s	55.81nm			5.1mb			0.7s	7.27nm			5.0mb	Z	19s	0.88um	5.2MsZ			
	Z	20s	2.84um		4.8MsZ			Z	20s	1.20um		5.1MsZ		BR	31	51.00			
NAV	27.53	6	P	56	58.60	1.5	PMS	69.57	332	eP	02	18.00	-1.3	BOB	85.85	45 P	03	51.00	1.3
LNO	27.93	340	e(P)	57	00.00	-0.6	FBA	70.00	336	P	02	19.60	-2.2	MDI	85.86	44 P	03	48.00	-1.6
TUL	27.93	340	eP	56	59.20	-1.5		0.8s	7.76nm			4.9mb	PGF	85.90	48 eP	03	49.30	-0.7	
	1.3s	41.30nm			5.1mb		IMA	72.69	336	P	02	36.00	-2.2	1.1s	34.20nm	5.4mb			
		LR	06	00.00				1.1s	6.25nm			4.6mb	OSS	86.00	43 ePd	03	51.00	0.5	
MEO	28.00	335	e(P)	57	01.00	-0.4	PTO	72.89	50	eP	02	37.00	-2.6	GRF	86.17	40 ePd	03	51.80	0.7
CBN	28.92	11	eP	57	10.00	0.4	AVE	73.81	58	iP	02	46.50	1.4	1.2s	45.00nm	5.5mb			
ARE	29.10	154	eP	57	14.00	2.2	TIO	74.00	61	iP	02	48.00	1.5	Z	19s	0.90um	5.2MsZ		
ZOBO	30.55	148	P	57	26.00	1.0	IFR	75.71	58	iPd	02	57.50	1.2	MOX	86.25	39 eP	03	52.00	0.6
	1.0s	13.00nm			4.8mb		MAL	76.17	55	iPc	03	00.80	2.2	1.4s	34.00nm	5.3mb			
	Z	24s	1.76um		4.6MsZ		TOL	76.36	51	eP	03	01.00	1.3	SAL	86.46	44 P	03	53.50	1.0
		S	02	32.00			EKA	76.97	35	Pd	03	00.30	-2.4	SQTA	86.62	43 iPd	03	53.40	-0.1
		LR	08	08.00				1.0s	20.70nm			5.2mb		1.3s	48.30nm	5.5mb			
LPB	30.78	148	eP	57	08.00	-18.9X	LKO	77.48	82	P	03	05.58	-0.8		i	03	55.60		
	Z	15s	5.00um		5.3MsZ			1.0s	32.50nm			5.4mb		i	04	07.50			
		LR	06	34.00			LPF	78.31	43	eP	03	09.40	-0.8		i	04	19.70		
CNCB	31.07	148	P	57	31.00	1.4		1.1s	29.30nm			5.3mb	CLL	86.97	39 iPd	03	55.00	0.1	
		i	00	27.00			GRR	78.42	43	eP	03	10.10	-0.7	Z	18s	45.00nm	5.5mb		
ALO	32.09	324	eP	57	36.50	-1.5		1.1s	36.65nm			5.4mb	WET	87.34	41 eP	03	57.00	0.2	
	1.0s	13.25nm			4.8mb		TIC	78.46	85	P	03	12.62	0.9	1.4s	104.00nm	5.9mb			
	Z	19s	1.74um		4.8MsZ		LIC	78.51	86	P	03	12.64	0.6	UPP	87.52	30 iP	03	57.10	-0.2
ANMO	32.09	324	P	57	36.40	-1.6		Z	20s	0.74um		5.0MsZ	PGD	87.62	46 P	03	57.90	-0.5	
	1.0s	9.75nm			4.7mb		FLN	78.66	42	eP	03	11.30	-0.8	BHG	87.64	42 eP	03	59.00	0.8
WVLY	32.89	8	P	57	44.30	-0.3		0.9s	14.75nm			5.0mb	BRG	87.65	39 eP	03	58.40	0.2	
SIV	34.53	138	Pc	57	58.00	-1.2	KIC	78.77	85	P	03	14.42	1.0	1.4s	30.00nm	5.4mb			
GLD	35.08	332	P	58	01.90	-1.9	LDF	78.90	42	eP	03	12.80	-0.7	e	04	10.40			
	1.2s	22.22nm			4.9mb			1.2s	44.65nm			5.4mb	e	04	26.40				
GOL	35.11	331	P	58	02.00	-2.1	MFF	78.97	44	eP	03	13.10	-0.8	SFI	87.70	46 P	03	58.00	-0.5
	Z	20s	1.00um		4.6MsZ		EPF	79.51	48	eP	03	16.80	-0.2	KHC	87.79	41 Pd	03	59.50	0.5
RSNY	35.60	12	P	58	07.20	-0.8		1.1s	43.95nm			5.4mb	Z	18s	20.00nm	5.3mb			
	1.4s	39.29nm			5.1mb		LFF	79.68	46	eP	03	17.00	-0.8	N	18s	0.90um	5.2MsZ		
	Z	20s	5.08um		5.3MsZ			1.1s	29.30nm			5.2mb	E	18s	0.40um				
GLA	36.30	314	eP	58	16.00	1.9	EBR	79.78	50	eP	03	19.00	0.6		0.80um				
BAR	37.44	312	eP	58	25.00	1.4	LPO	80.02	46	eP	03	18.90	-0.7	FVI	87.80	43 P	03	59.10	0.1
TPC	37.73	315	eP	58	27.00	0.9		1.1s	41.50nm			5.3mb	CRE	87.83	46 P	03	58.50	-0.9	
		e	03	45.00			LSF	80.15	45	eP	03	19.20	-1.1	PRU	88.22	40 eP	04	02.00	1.1
MSU	37.87	323	P	58	27.00	-0.4	RJF	80.21	46	eP	03	19.90	-0.7	Z	18s	0.80um	5.2MsZ		
PLM	37.91	313	eP	58	29.00	1.2		1.1s	26.85nm			5.1mb	N	18s	0.50um				
		e	02	46.00			TCF	80.62	45	eP	03	21.60	-1.2	E	18s	0.50um			
RVR	38.61	314	eP	58	33.00	-0.4		0.9s	9.00nm			4.8mb	ASS	88.45					

30d 15h

KSP	89.10	39	eP	04 05.30	0.1
AZI	89.24	48	P	04 04.50	-1.4
SDI	89.58	48	P	04 07.00	-0.7
PTJ	90.11	43	eP	04 10.10	0.0
ZST	90.29	41	eP	04 11.80	1.1
SGO	90.94	49	P	04 12.50	-1.4
KRA	91.56	39	eP	04 18.20	1.6
Z 19s				1.30um	5.4MsZ
E 19s				1.30um	
TDS	91.92	49	P	04 19.80	1.3
SPC	92.01	39	e(P)	04 20.00	1.1
OHR	94.80	47	eP	04 33.30	1.5
			e	08 45.70	
SKO	95.00	46	eP	04 33.50	0.9
WMQ	126.10	7	ePKP	10 15.50	2.6X
TIY	130.13	343	ePKP	10 24.60	3.9X
Z 25s				1.00um	5.4MsZ
E 20s				1.00um	
GTA	130.83	356	ePKP	10 23.50	1.4X
Z 22s				1.20um	5.6MsZ
WB5	141.32	251	ePKP	10 36.50	-5.5X
			i	10 45.50	
WRA	141.34	250	PKPc	10 36.50	-5.6X
			0.7s	2.70nm	
SHL	144.61	6	iPKP	10 46.80	-1.0
MTN	145.06	262	ePKP	10 48.50	0.0
HYB	148.09	32	ePKP	10 56.00	2.5X
GBA	150.53	38	PKP	11 01.00	3.8X
			1.1s	24.20nm	
KOD	153.09	43	ePKP	11 09.00	7.6X
S.D. = 1.3 on 175 of 189 obs.					

? JUN 30, 1990 14h 53m 10.40 ± 2.79s
 16.722 N ± 23.3km 99.837 W ± 21.9km
 DEPTH = 33.0km (normal)
 NEAR COAST OF GUERRERO, MEXICO (58)
 Felt at Acapulco.

ACX	0.15	352	iP	53 16.42	-0.1
			iS	53 17.07	
III	1.68	12	iP	53 37.77	-0.3
			iS	53 56.18	
PPM	2.60	26	iP	53 53.09	1.6
			iS	54 25.96	
UNM	2.67	13	iP	53 55.00	2.7X
			(S)	54 23.00	
CRX	2.67	3	eP	53 58.35	6.0X
IIT	2.71	32	iP	53 51.45	-1.4
			(S)	54 30.00	
IJJ	3.00	2	iP	54 00.96	3.8X
			iS	54 31.26	
OXX	3.00	83	(P)	53 57.00	0.0
			(S)	54 31.00	
MRX	3.23	337	eP	54 04.62	4.6X
			(S)	54 40.00	
S.D. = 1.5 on 5 of 9 obs.					

JUN 30, 1990 14h 55m 23.69 ± 0.55s
 9.981 N ± 11.5km 84.109 W ± 7.4km
 DEPTH = 10.0km (geophysicist)
 4.8mb (23 obs.)
 COSTA RICA (78)

DVD	2.24	133	iPc	56 02.00	0.6
OXX	14.15	301	(P)	58 44.00	-2.6
PPM	16.69	304	(P)	59 21.00	1.1
III	17.06	301	(P)	59 24.50	0.3
CRX	17.72	304	(P)	59 33.00	0.3
IJJ	17.93	305	(P)	59 34.00	-1.4
MRX	19.12	302	(P)	59 51.00	1.5
JSC	24.33	6	P	00 43.60	1.0
LHS	24.57	7	P	00 46.50	1.5
RSCP	25.54	357	P	00 58.10	3.9X
TKL	25.56	1	P	00 56.00	1.6
GBTN	25.57	360	P	00 53.20	-1.3X
POW	26.83	347	P	01 04.90	-1.3X
BLA	27.31	6	P	01 12.60	2.0
			1.0s	10.00nm	4.5mb
ALQ	32.15	324	eP	01 55.00	1.0
			0.9s	3.57nm	4.3mb
ANMO	32.15	324	P	01 55.70	1.7
			0.9s	2.31nm	4.1mb
PLM	38.04	313	P	02 40.60	-3.7X
RSSD	38.15	337	P	03 00.00	14.9X
BW06	39.52	330	P	02 57.20	0.6
			1.2s	4.11nm	4.0mb
TNP	40.81	319	P	03 06.10	-1.2

KVN	41.93	319	P	03 12.00	-4.4X
BAO	43.90	125	eP	03 32.50	-0.2
FFC	46.83	346	eP	03 55.00	-0.4
			0.9s	12.00nm	5.0mb
INK	66.54	342	eP	06 16.00	0.4
MBC	68.92	351	eP	06 29.00	-1.4
			0.7s	13.00nm	5.2mb
LKO	77.19	82	P	07 21.80	1.7
			0.6s	11.00nm	5.1mb
GRR	78.14	43	eP	07 24.10	-0.6
			0.7s	9.90nm	5.0mb
TIC	78.17	85	(P)	07 27.44	1.9
LIC	78.23	86	(P)	07 28.28	2.4
			0.9s	25.00nm	5.3mb
FLN	78.38	42	eP	07 25.60	-0.4
			0.8s	14.80nm	5.1mb
KIC	78.49	86	(P)	07 29.40	2.1
			0.9s	16.50nm	5.1mb
LDF	78.62	42	eP	07 26.90	-0.5
			0.7s	5.50nm	4.7mb
MFF	78.69	44	eP	07 27.20	-0.6
EPF	79.23	48	eP	07 31.00	0.1
			0.9s	13.10nm	4.9mb
LFF	79.40	46	eP	07 31.30	-0.3
			0.8s	16.10nm	5.1mb
LPO	79.73	46	eP	07 33.10	-0.4
LSF	79.86	45	eP	07 33.30	-0.9
			1.0s	13.00nm	4.9mb
RJF	79.92	46	eP	07 33.80	-0.7
TCF	80.33	45	eP	07 35.90	-0.8
			0.8s	6.70nm	4.7mb
CAF	80.33	46	eP	07 36.20	-0.6
MAF	80.58	45	eP	07 37.40	-0.6
			0.8s	6.05nm	4.7mb
AVF	81.08	44	eP	07 39.40	-1.2
			0.9s	4.90nm	4.5mb
SSF	81.16	44	eP	07 40.00	-1.0
			0.7s	4.95nm	4.7mb
LOR	81.38	44	eP	07 41.00	-1.2
			0.8s	6.70nm	4.7mb
SMF	81.43	44	eP	07 41.10	-1.3
LBF	81.49	44	eP	07 41.40	-1.4
			0.8s	4.05nm	4.5mb
HAU	82.97	43	eP	07 49.80	-0.7
BSF	83.29	43	eP	07 51.10	-1.1
CDF	83.54	42	eP	07 52.50	-0.9
LPL	83.55	45	eP	07 53.80	0.0
LPG	83.57	45	eP	07 53.80	-0.1
NB2	83.92	29	P	07 55.20	0.2
			1.2s	15.30nm	5.1mb
PGF	85.61	48	eP	08 03.70	-0.3
WB5	141.63	251	ePKP	14 53.90	-4.1X
WRA	141.64	251	PKPd	14 58.60	0.6
HYB	147.83	32	ePKP	15 10.00	1.5X
S.D. = 1.2 on 48 of 56 obs.					

* JUN 30, 1990 14h 59m 07 63 ± 0.88s
 10.264 N ± 20.0km 83.923 W ± 12.0km
 DEPTH = 10.0km (geophysicist)
 4.9mb (5 obs.)
 COSTA RICA (78)

OXX	14.16	300	(P)	02 30.00	-0.7
PPM	16.69	303	(P)	03 04.00	0.2
III	17.07	300	(P)	03 09.00	0.6
CRX	17.72	303	(P)	03 18.00	1.4
IJJ	17.93	304	(P)	03 20.50	1.2
PLM	37.98	312	eP	06 28.20	0.5
TNP	40.72	318	eP	06 50.00	-0.5
KVN	41.83	319	eP	06 57.00	-2.6
BAO	43.91	125	eP	07 17.00	0.3
FFC	46.61	346	eP	07 39.00	1.4
			1.0s	16.00nm	5.0mb
FRB	54.51	8	eP	08 38.00	0.5
YKA	56.65	344	eP	08 51.20	-1.9
			0.8s	4.00nm	4.5mb
INK	66.33	342	eP	09 56.00	-2.2
MBC	68.67	351	eP	10 13.00	0.2
			0.4s	3.00nm	4.8mb
NB2	83.58	29	P	11 38.60	1.3
			1.0s	7.80nm	4.9mb
HFS	84.95	30	eP	11 44.40	0.3
			0.6s	5.00nm	4.9mb
CLL	86.37	39	e(P)	11 52.00	0.7
WB5	141.89	251	ePKP	18 43.20	0.8
WRA	141.91	251	PKP	18 41.00	-1.5

0.8s 2.30nm
 HYB 147.50 32 ePKP 18 56.00 4.1X
 S.D. = 1.3 on 19 of 20 obs.

% JUN 30, 1990 15h 05m 01.32 ± 0.78s
 37.781 N ± 7.6km 15.085 E ± 6.0km
 DEPTH = 10.0km (geophysicist)
 SICILY (398)
 MNO 0.34 296 P 05 08.60 0.1
 eSg 05 14.60
 ATN 0.48 38 Pd 05 11.00 -0.1
 eSg 05 18.00
 MEU 0.69 190 P 05 15.00 0.0
 eSg 05 24.70
 SOI 0.82 69 P 05 17.30 0.1
 eSg 05 30.40
 GIB 0.86 284 P 05 17.90 -0.1
 eSg 05 31.40
 S.D. = 0.2 on 5 of 5 obs.

& JUN 30, 1990 15h 17m 55.74s
 31.830 N 116.200 W
 DEPTH = 4.0km
 BAJA CALIFORNIA (48)
 <ECX>. MD 3.0 (ECX).

ENX	0.40	278	iPc	18 03.20	-0.5
			S	18 08.80	
PBX	0.46	259	iPc	18 04.50	-0.4
			S	18 10.80	
CBX	0.62	321	iPc	18 06.20	-2.0
			S	18 15.00	
CPBX	0.96	52	ePc	18 12.50	-2.1
			S	18 25.70	
SPX	1.00	141	ePc	18 13.40	-2.1
			S	18 26.60	
ECBX	1.04	110	ePc	18 13.70	-2.3
			S	18 27.70	
LMX	1.09	75	ePc	18 14.00	-2.7
7 obs. associated					

? JUN 30, 1990 15h 38m 51.21 ± 1.94s
 37.851 N ± 28.5km 15.058 E ± 7.1km
 DEPTH = 10.0km (geophysicist)
 SICILY (398)

MNO	0.30	286	P	38 57.40	-0.1
			eSg	39 04.00	
ATN	0.44	46	P	39 00.30	0.0
			eSg	39 10.00	
SOI	0.82	74	P	39 07.00	0.0
			eSg	39 21.00	
GIB	0.83	280	P	39 07.40	0.1
			eSg	39 21.00	
S.D. = 0.2 on 4 of 4 obs.					

JUN 30, 1990 16h 00m 45.39 ± 0.41s
 47.995 N ± 3.5km 7.507 E ± 3.2km
 DEPTH = 10.0km (geophysicist)
 SWITZERLAND (544)
 ML 2.8 (LDG).

MOF	0.29	240	Pg	00 51.67	0.2
ECH	0.32	314	Pg	00 52.19	0.1
			Sg	00 56.54	
FEL	0.36	109	Pg	00 52.92	0.1
			Sg	00 57.68	
WLS	0.43	346	Pg	00 54.20	0.0
			Sg	00 59.61	
CDF	0.45	340	Pg	00 54.55	0.1
			Sg	01 00.26	
BSF	0.51	252	Pg	00 55.60	-0.1
			Sg	01 02.40	
SLE	0.70	109	ePd	00 59.40	0.1
HAU	0.78	271	Pg	01 00.70	0.1
			Sg	01 10.80	
LOMF	0.79	216	Pg	01 00.70	-0.1
			Sg	01 13.20	
GWf	0.99	4	Pg	01 03.85	-0.3
			Sg	01 17.31	
VITF	1.05	283	Pg	01 05.37	0.3
			Sg	01 19.50	
LPG	2.55	192	Pg	01 34.20	6.4X
			Sg	02 07.00	
LOR	2.57	255	Pn	01 27.40	-0.4
			Pg	01 34.00	

LBF 2.60 248 Pg 02 06.60 6.4X
 Sg 01 34.60
 Sg 02 06.60
 SMF 2.84 243 Pg 01 38.60 7.0X
 Sg 02 16.00
 SSF 2.87 252 Pg 01 40.00 8.0X
 Sg 02 15.00
 AVF 3.07 248 Pg 01 43.20 8.4X
 Sg 02 22.80
 BGF 3.48 247 Pg 01 51.00 10.3X
 Sg 02 35.00
 MAF 3.81 244 Pg 01 57.20 11.8X
 Sg 02 45.00

S.D. = 0.2 on 12 of 19 obs.

* JUN 30, 1990 17h 18m 43.82 ± 1.31s
 36.538 N ± 12.7km 70.802 E ± 8.2km
 DEPTH = 168.2 ± 16.0 km
 4.5mb (9 obs.)

HINDU KUSH REGION (718)

QUE 7.10 208 iPd 20 27.00 0.6
 0.8s 69.40nm 5.1mb
 eS 21 45.00
 MAIO 9.12 272 ePn 20 52.00 -1.0
 eSn 22 25.00
 NDI 9.52 144 eP 20 58.00 -0.1
 eS 22 37.00
 GKN 14.46 122 P 22 01.40 -0.5
 DMN 15.03 122 P 22 09.20 0.1
 0.6s 33.00nm 4.9mb
 PKI 15.26 122 P 22 12.10 0.0
 GUN 15.37 120 P 22 14.00 0.5
 0.5s 16.00nm 4.6mb
 GBA 23.60 164 Pd 23 41.60 1.1
 0.5s 2.90nm 4.1mb
 HFS 42.94 322 eP 26 27.50 0.4
 0.5s 13.10nm 4.8mb
 NB2 44.25 323 P 26 37.80 0.0
 0.6s 7.60nm 4.5mb
 MBC 67.31 3 eP 29 22.50 0.8
 0.8s 7.00nm 4.5mb
 YKA 81.22 3 eP 30 42.00 0.5
 0.6s 2.70nm 4.2mb
 WB5 82.12 122 eP 30 45.50 -1.4
 WRA 82.15 122 Pd 30 46.10 -1.0
 0.7s 3.30nm 4.2mb

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

JUN 30, 1990 17h 46m 37.47 ± 0.78s
 40.219 N ± 10.1km 24.887 E ± 4.7km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)
 ML 3.0 (THE).

OUR 0.70 280 eP 46 51.50 0.2
 eS 47 01.60
 ALN 1.11 52 eP 46 58.60 0.3
 eS 47 16.30
 EZN 1.17 109 iPn 46 57.50 -1.8
 SOH 1.31 298 eP 47 01.60 -0.2
 eS 47 22.00
 SRS 1.33 313 eP 47 03.10 1.0
 eS 47 22.80
 RZN 1.47 355 iPc 47 04.00 -0.2
 IS 47 27.00
 KDZ 1.49 15 iPc 47 03.00 -1.2
 THE 1.52 286 eP 47 04.90 0.2
 eS 47 28.00
 MMB 1.63 328 ePc 47 06.00 -0.3
 IS 47 31.00
 KNT 1.78 303 eP 47 08.60 0.1
 eS 47 34.50
 LIT 1.84 267 eP 47 08.10 -1.3
 PLD 1.89 356 iPd 47 14.00 4.0X
 IS 47 40.00
 DIM 1.89 15 eP 47 14.00 3.9X
 S 47 43.00
 GRG 2.03 292 eP 47 12.70 0.5
 eS 47 40.30
 VAY 2.08 303 ePn 47 17.60 4.8X
 KKB 2.14 321 eP 47 15.00 1.3
 IS 47 45.00
 EDC 2.28 86 ePn 47 19.00 3.3
 BNT 2.32 86 iPn 47 17.80 1.4
 JMB 2.58 29 eP 47 28.00 8.0X
 eS 48 03.00

VTS 2.69 333 eP 47 28.00 6.4X
 DMK 2.70 53 ePn 47 27.10 5.4X
 FNA 2.74 283 eP 47 22.00 -0.3
 CTT 2.85 70 ePn 47 22.00 -1.8
 PVL 3.01 6 eP 47 25.00 -1.1

S.D. = 1.3 on 18 of 24 obs.

? JUN 30, 1990 18h 05m 59.13 ± 1.94s
 37.847 N ± 27.7km 15.087 E ± 7.4km
 DEPTH = 10.0km (geophysicist)
 SICILY (398)

MNO 0.32 285 P 06 05.50 -0.4
 eSg 06 12.00
 ATN 0.43 43 P 06 08.00 0.1
 eSg 06 16.50
 SOI 0.80 73 P 06 14.50 -0.1
 GIB 0.85 280 P 06 16.00 0.4
 eSg 06 29.00

S.D. = 0.6 on 4 of 4 obs.

% JUN 30, 1990 18h 34m 52.18 ± 1.36s
 39.347 N ± 6.3km 15.234 E ± 14.7km
 DEPTH = 13.3 ± 8.9 km
 SOUTHERN ITALY (390)

MGR 0.83 17 P 35 07.90 0.0
 eSg 35 19.60
 TDS 0.91 70 Pc 35 09.20 -0.1
 eSg 35 22.90
 ORI 1.18 52 P 35 14.10 0.2
 eSn 35 29.50
 ATN 1.20 171 P 35 14.50 0.3
 SGO 1.21 3 P 35 14.30 -0.1
 eSn 35 30.50
 SOI 1.43 153 P 35 17.30 -0.3
 eSn 35 35.80

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

JUN 30, 1990 18h 49m 18.08 ± 0.33s
 44.290 N ± 6.8km 149.179 E ± 4.8km
 DEPTH = 8.8km (5 depth phases)
 5.2mb (59 obs.) 4.9MsZ (9 obs.)

KURIL ISLANDS (221)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 22C
 Centroid Location:
 Origin Time 18:49:24.7 0.7
 Lat 44.25N 0.06 Lon 149.70E 0.09
 Dep 35.1 4.0 Half-duration 1.7
 Moment Tensor: Scale 10**16 Nm
 Mrr= 6.89 0.29 Mtt=-2.26 0.40
 Mff=-4.64 0.40 Mrl= 1.52 0.78
 Mrf= 1.95 0.98 Mtf=-5.84 0.47
 Principal Axes:
 T Vol= 7.26 Plg=82 Azm=309
 N 2.51 0 219
 P -9.77 8 129
 Best Double Couple: Mo=8.5*10**16
 NP1: Strike=219 Dip=37 Slip= 90
 NP2: 39 53 90

KUSJ 3.45 251 iP+ 50 13.40 0.3
 S 50 53.90
 SAP 5.82 261 eP 50 50.00 3.4X
 eS 52 08.00
 MAT 11.39 231 eP 52 02.00 -1.9
 0.8s 9.70nm 5.2mb
 Z 19s 3.82um 3.9MsZ
 (S) 54 10.00
 MDJ 14.00 278 eP 52 39.50 0.8
 1.0s 100.00nm 5.6mb
 CN2 17.06 277 Pc 53 17.00 -1.3
 1.0s 100.00nm 4.9mb
 Z 16s 5.30um 4.6MsZ
 N 13s 2.20um
 E 13s 1.90um
 pP 53 27.00
 SNY 18.85 271 iPc 53 39.50 -0.9
 1.0s 100.00nm 5.0mb
 Z 20s 4.40um 4.7MsZ
 N 12s 1.50um
 E 14s 2.50um
 sP 53 52.00
 S 57 02.00
 DL2 21.24 265 eP 54 06.00 -0.5

1.0s 100.00nm 5.2mb
 Z 20s 1.80um 4.5MsZ
 N 13s 1.20um
 E 15s 1.10um
 BJI 24.73 272 eP 54 41.50 0.7
 1.1s 35.00nm 4.9mb
 Z 20s 4.49um 5.0MsZ
 E 14s 1.49um
 eS 59 04.00
 SSE 25.63 249 P 54 50.00 0.6
 Z 20s 2.80um 4.8MsZ
 E 18s 3.20um
 eS 59 24.00
 TIA 25.64 263 eP 54 49.90 0.4
 Z 20s 1.50um 4.5MsZ
 E 18s 2.20um
 NJ2 26.63 253 Pc 55 02.80 4.1X
 Z 17s 2.20um 4.8MsZ
 N 15s 2.10um
 E 13s 1.90um
 HHC 27.75 276 P 55 09.80 0.8
 Z 16s 4.60um 5.2MsZ
 N 14s 1.30um
 E 14s 2.30um
 pP 55 13.00 11km
 TIY 28.33 269 eP 55 14.70 0.5
 Z 21s 2.00um 4.7MsZ
 N 15s 1.10um
 BTO 28.94 276 eP 55 21.00 1.3
 N 13s 2.20um
 E 15s 2.20um
 eS 00 14.00
 WHN 30.63 255 eP 55 35.00 0.3
 Z 18s 2.40um 4.9MsZ
 N 16s 1.90um
 E 16s 2.30um
 eS 00 44.00
 XAN 32.56 266 P 55 50.50 -1.2
 E 13s 0.90um
 LZH 35.21 272 iPc 56 15.50 0.7
 1.5s 130.00nm 5.6mb
 pP 56 19.00 12km
 sP 56 22.00
 TTA 36.09 39 eP 56 21.90 0.2
 GTA 36.65 280 Pc 56 27.20 0.4
 Z 16s 2.70um 5.1MsZ
 N 12s 1.00um
 eS 02 08.00
 IMA 37.41 34 eP 56 32.50 -0.4
 0.9s 20.80nm 4.9mb
 CD2 37.91 265 P 56 37.80 0.4
 0.8s 100.00nm 5.6mb
 Z 15s 0.80um 4.6MsZ
 GYA 38.47 257 P 56 42.40 0.2
 E 16s 2.30um
 FBA 39.80 36 eP 56 53.30 0.6
 KMI 42.06 259 eP 57 12.50 0.5
 1.5s 70.80nm 5.2mb
 Z 16s 3.50um 5.3MsZ
 eS 03 34.00
 WMO 43.26 292 iPc 57 22.10 0.7
 Z 18s 3.80um 5.3MsZ
 N 15s 2.00um
 E 16s 2.20um
 eS 03 46.00
 INK 45.20 31 eP 57 36.00 -0.6
 MBC 47.83 19 eP 57 59.00 1.6
 0.8s 3.00nm 4.4mb
 SHL 49.52 268 iP 58 10.50 -0.8
 GUN 52.44 274 P 58 33.60 0.0
 0.9s 108.00nm 5.8mb
 PKI 52.98 274 P 58 37.00 -0.6
 0.9s 41.00nm 5.4mb
 DMN 53.17 274 P 58 38.80 -0.2
 0.9s 65.00nm 5.6mb
 GKN 53.27 275 P 58 39.50 -0.1
 YKA 54.53 35 eP 58 53.50 5.3X
 0.9s 8.30nm 4.8mb
 NDI 58.15 280 iPc 59 14.00 -0.5
 eS 07 33.00
 EDM 60.01 44 eP 59 26.00 -1.2
 SOD 60.52 338 eP 59 29.00 -1.4
 PSI 60.58 242 ePd 59 31.50 0.1
 WDC 62.14 59 ePc 59 42.60 0.9
 SUF 64.07 335 eP 59 51.60 -2.5
 0.6s 10.50nm 5.2mb
 HYB 64.25 270 eP 59 55.00 -0.9

30d 18h

FFC	64.39	38	eP	59	55.00	-1.3
	0.9s	14.00nm			5.2mb	
QUE	64.39	288	eP	59	56.90	0.0
LRM	64.89	50	eP	59	59.10	-1.0
CMB	65.00	61	eP	00	01.40	0.8
WB5	65.28	195	eP	00	01.00	-1.3
WRA	65.35	195	P	00	03.00	0.2
	0.7s	2.20nm			4.5mb	
MAIO	65.58	297	eP	00	06.00	1.6
		eS		09	11.00	
NUR	66.21	334	eP	00	06.00	-1.9
	0.7s	16.00nm			5.3mb	
GBA	67.58	267	Pd	00	16.10	-1.1
	0.6s	5.20nm			4.9mb	
CLC	68.12	61	eP	00	35.00	14.5X
FRB	68.24	17	ePc	00	19.50	-1.2
SBB	68.70	62	eP	00	26.00	1.9
UPP	68.88	336	iP	00	23.20	-1.5
GSC	68.95	61	eP	00	41.00	15.3X
NB2	69.62	340	P	00	27.70	-1.6
	0.6s	19.20nm			5.4mb	
HFS	69.75	338	eP	00	28.00	-2.0
	0.6s	27.00nm			5.6mb	
Z	17s	0.43um			4.8MsZx	
		LR		26	45.00	
PLM	70.17	63	eP	00	43.00	9.7X
ALO	75.50	55	eP	01	03.50	-1.2
	0.8s	4.10nm			4.5mb	
CLI	76.01	323	iPd	01	07.50	0.4
KRA	76.16	329	eP	01	06.30	-1.5
	0.8s	47.00nm			5.6mb	
Z	18s	1.40um			5.3MsZ	
E	18s	1.30um				
		e		01	07.60	4km
		e		01	10.80	
SPC	76.76	328	eP	01	12.00	0.5
VRI	76.79	323	ePd	01	13.50	2.0
KSP	76.80	332	ePc	01	11.40	-0.1
	1.1s	26.00nm			5.2mb	
MLR	77.42	323	eP	01	15.50	0.3
CLL	77.50	334	iP	01	15.00	-0.3
	1.4s	48.00nm			5.4mb	
BRG	77.57	333	iP	01	15.00	-0.7
	1.3s	22.00nm			5.1mb	
PSN	77.84	320	eP	01	18.00	0.7
EKA	78.02	344	Pc	01	17.90	-0.2
	1.3s	19.20nm			5.0mb	
PRU	78.12	332	Pc	01	18.50	-0.2
	1.5s	22.30nm			5.0mb	
Z	17s	1.30um			5.3MsZx	
N	16s	1.00um				
E	16s	0.50um				
MOX	78.51	334	eP	01	21.00	0.1
	1.6s	34.00nm			5.2mb	
Z	16s	1.00um			5.2MsZx	
BBTK	78.58	315	eP	01	22.00	0.4
SRO	78.62	329	eP	01	23.60	2.1
BUD	78.63	328	eP	01	22.00	0.5
HOF	78.72	334	eP	01	21.70	-0.3
WTS	78.74	337	eP	01	22.00	-0.1
	0.8s	16.00nm			5.1mb	
ZST	78.75	330	eP	01	22.70	0.5
BZS	79.14	325	eP	01	24.00	-0.4
KHC	79.18	332	Pc	01	25.10	0.5
SOP	79.37	330	eP	01	29.00	3.4X
WET	79.40	333	eP	01	26.10	0.3
GRF	79.47	334	eP	01	26.80	0.7
	1.4s	43.00nm			5.3mb	
Z	18s	0.70um			5.0MsZ	
		e		01	29.50	9km
		e		01	34.80	
		e		01	40.30	
ENN	80.09	337	eP	01	30.00	0.6
	1.0s	27.00nm			5.2mb	
MEO	80.13	51	e(P)	01	30.70	0.8
DLE	80.59	346	eP	01	32.70	0.7
	0.9s	48.00nm			5.5mb	
YRH	80.67	344	eP	01	34.00	1.6
KDZ	80.70	321	iP	01	34.00	1.2
VTS	80.93	323	iPd	01	35.00	0.8
RZN	80.99	321	iP	01	35.00	0.4
ETA	81.10	345	eP	01	35.30	0.6
PTJ	81.10	329	e(P)	01	34.50	-0.5
MMB	81.51	322	eP	01	28.00	-9.1X
KKB	81.57	322	eP	01	38.00	0.6
ECP	81.62	345	eP	01	38.20	0.8
SQTA	81.63	333	eP	01	36.00	-1.8

	0.8s	21.20nm			5.3mb	
		id		01	30.60	8km
		i		01	48.90	
		i		02	17.50	
FVI	81.65	331	P	01	37.00	-0.6
VOY	81.74	330	e(P)	01	36.50	-1.8
VOY	81.74	330	eP	01	37.50	-0.8
CEY	81.80	330	e(P)	01	38.00	-0.5
CDF	81.81	335	eP	01	38.10	-0.6
	0.8s	10.75nm			5.0mb	
OGA	82.00	332	eP	01	40.00	0.2
	1.0s	24.00nm			5.2mb	
TRI	82.06	330	P	01	39.00	-0.8
SKO	82.19	323	iP	01	41.00	0.4
VAY	82.23	322	eP	01	41.00	0.2
HAU	82.45	336	eP	01	41.00	-0.9
BSF	82.48	335	eP	01	42.00	-0.2
	0.8s	6.70nm			4.8mb	
JVI	83.13	308	eP	01	47.00	1.4
OHR	83.17	323	eP	01	40.50	-5.3X
SAL	83.27	332	P	01	46.00	-0.1
FLN	83.59	340	eP	01	47.20	-0.5
	0.9s	24.55nm			5.4mb	
VAI	83.62	333	P	01	47.80	-0.1
LDF	83.66	340	eP	01	47.40	-0.7
LOR	83.84	337	eP	01	48.20	-0.8
	0.9s	17.20nm			5.3mb	
GRR	84.03	340	eP	01	49.50	-0.4
	0.9s	32.75nm			5.6mb	
LBF	84.06	337	eP	01	49.50	-0.7
	0.8s	6.70nm			4.9mb	
ORO	84.09	334	P	01	52.00	1.6
SSF	84.12	337	eP	01	50.00	-0.5
	0.7s	6.05nm			4.9mb	
ARV	84.27	330	P	01	48.00	-3.3X
SFI	84.29	331	P	01	52.50	1.2
BOB	84.37	332	P	01	53.40	1.6
PGD	84.38	331	P	01	53.40	1.4
LPF	84.41	340	eP	01	51.70	-0.1
	0.9s	26.20nm			5.5mb	
SMF	84.41	337	eP	01	51.60	-0.3
	0.9s	18.85nm			5.3mb	
AVF	84.41	337	eP	01	51.50	-0.4
	1.0s	17.00nm			5.2mb	
CRE	84.51	330	P	01	52.50	-0.1
PRNI	84.52	308	eP	01	54.00	1.2
LPL	84.58	335	eP	01	53.10	0.1
	0.9s	15.55nm			5.2mb	
LPG	84.59	334	eP	01	53.30	0.1
	0.9s	15.55nm			5.2mb	
BDI	84.61	331	P	01	53.00	0.0
ASS	84.74	330	P	01	54.00	0.3
BRT	84.87	326	P	01	54.00	-0.3
BNI	85.01	334	P	01	56.10	1.0
BNH	85.02	307	eP	01	56.50	1.3
MAF	85.15	337	eP	01	56.70	0.5
	0.9s	31.10nm			5.5mb	
TCF	85.19	338	eP	01	55.90	0.0
	0.9s	13.10nm			5.2mb	
DUI	85.29	328	P	01	56.50	0.0
DOI	85.32	334	P	01	54.50	-2.1
AZI	85.39	329	P	01	57.00	0.2
LSF	85.41	338	eP	01	56.90	0.0
	0.9s	32.75nm			5.5mb	
SDI	85.49	328	P	01	57.00	-0.5
MFF	85.52	339	eP	01	57.60	0.2
	1.0s	34.00nm			5.5mb	
RJF	86.29	338	eP	02	01.40	0.1
	0.9s	13.10nm			5.1mb	
FRF	86.36	334	eP	02	01.20	-0.5
	1.1s	19.55nm			5.2mb	
CAF	86.48	337	eP	02	02.80	0.5
	0.9s	15.55nm			5.2mb	
LRG	86.55	334	eP	02	02.40	-0.2
	0.9s	22.95nm			5.4mb	
LMR	86.61	334	eP	02	02.50	-0.4
	0.9s	24.55nm			5.4mb	
LFF	86.83	338	eP	02	03.50	-0.4
	0.9s	18.00nm			5.3mb	
LPO	86.95	338	eP	02	05.20	0.7
	1.0s	16.00nm			5.2mb	
ZOBO	137.94	60	ePKP	08	45.00	-0.9
LPB	138.15	61	(PKP)	08	50.00	3.9X
CNCB	138.43	61	PKP	08	47.00	0.2
SIV	141.92	52	(PKP)	08	54.00	1.6X
BAO	147.94	32	ePKP	09	05.00	2.5
S.D.	= 0.9	on 140	of 152	obs.		

* JUN 30, 1990 18h 57m 49.40±1.30s						
44.864 N ±28.4km 148.856 E ±13.8km						
DEPTH = 33.0km (normol)						
4.7mb (17 obs.)						
KURIL ISLANDS (221)						
MAT	11.58	228	eP	00	26.00	-9.5X
			(S)		02	36.00
MDJ	13.70	276	eP	01	05.00	1.4
CN2	16.77	275	eP	01	44.80	1.5
			esP		01	57.00
SNY	18.61	270	eP	02	05.00	-1.1
BJI	24.49	270	eP	03	06.00	-0.6
	1.5s	26.00nm			4.6mb	
MHC	27.47	275	eP	03	36.00	1.5
BTO	28.66	275	eP	03	45.20	0.0
LZH	34.96	271	Pc	04	40.00	-0.6
	1.5s	28.00nm			5.0mb	
		pP		04	48.00	27kmX
GTA	36.32	279	eP	04	52.20	0.2
CD2	37.74	264	P	05	02.00	-1.9
FBA	39.47	37	eP	05	18.00	0.1
	1.0s	11.00nm			4.6mb	
WMO	42.83	291	iPc	05	46.50	0.6
INK	44.82	31	eP	06	03.00	1.5
CHTO	48.76	255	eP	06	36.00	2.9
	1.0s	3.75nm			4.4mb	
PKI	52.71	273	P	07	01.40	-2.1
DMN	52.90	274	P	07	03.40	-1.4
	0.6s	10.00nm			5.0mb	
GKN	53.00	274	P	07	03.90	-1.5
YKA	54.19	35	eP	07	11.80	-1.7
	0.5s	0.70nm			3.9mb	
SUF	63.46	334	eP	08	11.30	-6.6X
FFC	64.07	38	eP	08	20.00	-2.1
	0.7s	6.00nm			4.8mb	
NUR	65.60	333	eP	08	29.00	-2.7X
KVN	65.69	59	eP	08	35.00	2.0
NB2	69.00	339	P	08	52.20	-1.0
	0.6s	7.20nm			4.9mb	
HFS	69.13	338	eP	08	52.50	-1.5
	0.4s	9.20nm			5.2mb	
CLL	76.88	333	e(P)	09	39.00	-0.6
		eSg		31	03.00	
KHC	78.57	332	eP	09	49.30	0.3
DLE	79.98					

MAT	1.0s	2.50nm	3.9mb	37.47	20 (P)	09 32.00	-2.3
	0.9s	5.04nm	4.4mb	37.55	345 eP	09 35.60	0.6
TIY				38.94	149 eP	09 46.00	-0.6
CMS				39.03	351 eP	09 47.00	-0.2
BJI				40.11	138 Pc	09 56.30	-0.1
BRS				42.59	149 eP	10 18.70	2.0
BWA				43.59	149 iPc	10 25.30	0.5
CAN				43.59	333 eP	10 25.00	0.1
GTA				47.02	293 eP	11 05.00	12.6X
HYB				52.91	328 eP	11 37.00	-0.2
WMO				91.41	180 eP	15 25.10	-0.7
SPA	1.0s	10.50nm	5.2mb	160.93	144 ePKP	22 38.00	16.7X
CNCB				161.26	143 ePKP	22 21.00	-0.6
ZOBO				S.D. = 1.3 on 21 of 23 obs.			

? JUN 30, 1990 19h 26m 57.72 ± 1.38s
 21.321 S ± 12.6km 67.921 W ± 22.6km
 DEPTH = 74.4 ± 43.9 km
 CHILE-BOLIVIA BORDER REGION (124)

ANT	3.31	224 eP	27 48.20	0.0
CNCB	4.49	359 Pc	28 05.20	-0.1
LPB	4.77	358 P	27 53.00	-16.1X
ZOBO	5.03	358 P	28 13.00	0.1

	Z	20s	0.18um	
ARE	5.90	324 eP	28 16.00	-8.8X
			iS	29 16.00
SIV	8.38	52 iPc	28 58.80	0.0
BAO	19.72	77 eP	31 24.20	0.0

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

	*	JUN 30, 1990 19h 31m 25.98 ± 1.02s	
		5.225 S ± 10.2km 147.126 E ± 8.4km	
		DEPTH = 192.9 ± 8.8 km	
		4.9mb (8 obs.)	
		EAST PAPUA NEW GUINEA REGION (207)	

LAT	1.42	185 iPc	31 58.00	-0.7
MNDI	3.57	255 eP	32 24.50	1.5
		eS	33 07.00	
HNR	13.38	109 eP	34 29.00	-0.6
CTA	14.80	183 iPd	34 46.70	-0.6
	0.6s	34.33nm		4.9mb
QIS	16.90	205 eP	35 11.50	-1.5
	0.7s	60.00nm		5.1mb
MTN	17.51	243 eP	35 19.50	-0.2
WB5	19.14	219 iPd	35 36.30	-0.6
WRA	19.21	219 Pc	35 37.30	-0.2
	0.8s	90.70nm		5.3mb
RMQ	21.20	176 eP	35 58.00	0.5
ASPA	22.33	214 iPd	36 09.60	1.1
	0.4s	150.00nm		5.9mb
		iS	39 58.80	
DZM	25.10	134 iPc	36 36.50	1.7
COO	25.61	170 eP	36 40.00	0.6
STK	27.02	190 eP	37 02.30	10.2X
	1.0s	9.00nm		
WARB	28.60	221 eP	37 06.00	-0.4
	0.4s	8.00nm		4.8mb
MEKA	34.60	229 eP	37 59.00	0.5
GYA	50.27	311 P	40 12.00	7.0X
GUN	67.55	303 P	42 03.20	-1.1
PKI	67.84	302 P	42 06.80	0.8
	0.7s	8.00nm		4.6mb
DMN	68.10	302 P	42 08.60	1.0
	0.8s	19.00nm		4.9mb
GKN	68.62	303 P	42 09.00	-1.6
	0.7s	15.00nm		4.8mb
SIV	145.02	128 PKPc	50 42.60	-0.1
	S.D. = 1.1 on 19 of 21 obs.			

* JUN 30, 1990 19h 32m 50.45 ± 0.75s
 44.114 N ± 14.5km 149.310 E ± 9.2km
 DEPTH = 33.0km (normal)
 4.8mb (18 obs.)
 KURIL ISLANDS (221)

MAT	11.35	232 (P)	35 32.00	-1.3
	0.7s	2.05nm		4.4mb
MDJ	14.12	279 eP	36 10.30	0.2
CN2	17.17	277 Pd	36 49.20	-0.1
SNY	18.95	272 eP	37 09.80	-1.4
BJI	24.83	272 eP	38 11.00	0.1

HHC	0.8s	7.00nm	4.3mb	27.87	277 eP	38 41.00	1.9
TIY				28.42	270 eP	38 44.50	0.5
BTO				29.06	277 eP	38 50.00	0.2
LZH				35.32	273 Pc	39 45.00	0.4
	1.5s	40.00nm	5.1mb				
		pP	39 52.50	25kmX			
GTA	36.77	280 eP	39 57.00	0.2			
CD2	37.99	265 P	40 07.20	0.2			
KMI	42.12	259 eP	40 42.50	1.1			
WMO	43.41	292 iPc	40 52.20	0.7			
YKA	54.63	34 eP	42 19.40	1.7			
	0.6s	1.00nm		4.0mb			
FFC	64.47	38 eP	43 25.00	-0.6			
	1.0s	14.00nm		5.0mb			
LRM	64.93	50 eP	43 29.10	0.0			
WRA	65.20	196 Pd	43 46.70	16.1X			
	0.7s	4.20nm					
GBA	67.67	267 Pd	43 45.80	-0.7			
	0.9s	3.50nm		4.5mb			
NB2	69.82	340 P	43 56.60	-2.6			
	0.7s	4.00nm		4.6mb			
HFS	69.95	338 eP	43 57.50	-2.4			
	0.5s	7.20nm		5.0mb			
TEH	71.18	302 eP	43 54.00	-14.1X			
TAB	72.65	306 eP	44 11.00	-5.8X			
KER	74.71	303 eP	44 22.00	-6.8X			
KRA	76.36	329 eP	44 36.90	-0.8			
KSP	77.00	332 eP	44 40.50	-0.8			
CLL	77.70	334 iP	44 45.00	0.0			
BRG	77.76	333 e(P)	44 49.00	3.6X			
KHC	79.38	332 P	44 54.50	0.1			
GRF	79.67	334 eP	44 56.20	0.3			
	0.7s	5.00nm		4.6mb			
		e	45 10.70				
SQTA	81.83	333 iPc	45 07.50	0.0			
	0.7s	7.20nm		4.8mb			
		i	45 08.00				
		i	45 16.50				
CDF	82.01	336 eP	45 07.90	-0.5			
SKO	82.39	324 eP	45 11.00	0.7			
FLN	83.79	340 eP	45 17.20	-0.2			
	0.8s	8.05nm		4.9mb			
LOR	84.04	337 eP	45 18.40	-0.3			
GRR	84.23	341 eP	45 19.80	0.2			
SSF	84.32	337 eP	45 20.00	-0.1			
	0.8s	4.70nm		4.7mb			
LPF	84.60	341 eP	45 22.00	0.5			
	0.8s	10.75nm		5.1mb			
SMF	84.61	337 eP	45 21.60	0.0			
	0.8s	6.70nm		4.9mb			
AVF	84.61	337 eP	45 21.30	-0.2			
LPL	84.78	335 eP	45 23.00	0.3			
LPG	84.79	335 eP	45 23.10	0.3			
	0.7s	3.30nm		4.6mb			
MAF	85.35	338 eP	45 26.10	0.8			
	0.7s	4.40nm		4.8mb			
LSF	85.61	338 eP	45 27.00	0.4			
MFF	85.72	339 eP	45 27.60	0.5			
LRG	86.75	334 eP	45 32.40	0.2			
	1.0s	18.00nm		5.3mb			
LMR	86.81	334 eP	45 32.60	0.1			
	0.9s	9.85nm		5.0mb			
	S.D. = 0.9 on 41 of 46 obs.						

? JUN 30, 1990 19h 50m 06.27 ± 1.61s
 43.965 N ± 25.5km 148.885 E ± 18.2km
 DEPTH = 33.0km (normal)
 3.8mb (1 obs.)
 KURIL ISLANDS REGION (222)

KUSJ	3.16	256 P	50 53.20	-1.6
		S	51 24.70	
HOOJ	4.39	251 P	51 13.60	1.3
		S	52 01.90	
ASAJ	4.50	274 eP	51 13.80	-0.1
MRRJ	5.91	258 P	51 34.50	0.7
		eS	52 37.20	
OFUJ	7.29	230 P	51 52.80	-0.3
		S	53 09.00	
YKA	54.92	34 eP	59 35.70	0.0
	0.7s	0.70nm		3.8mb
	S.D. = 1.3 on 6 of 6 obs.			

* JUN 30, 1990 20h 23m 53.97s
 62.759 N 150.876 W
 DEPTH = 96.3km

CENTRAL ALASKA (1)							
<AGS-P>							
CUT	0.45	141 iP	24 09.05	-0.2			
		eS	24 20.41				
HUR	0.61	68 iP	24 10.19	-0.3			
		eS	24 22.26				
KTH	0.80	359 iP	24 12.07	-0.3			
		eS	24 25.53				
SKT	0.84	202 iP	24 12.31	-0.4			
PWA	1.21	157 iP	24 16.67	-0.1			
SUA	1.30	177 eP	24 17.72	-0.4			
		eS	24 35.83				
GHO	1.35	136 eP	24 18.54	-0.1			
		eS	24 37.27				
PLRM	1.43	144 eP	24 18.66	-0.8			
NCG	1.49	204 eP	24 19.78	-0.6			
SML	1.52	128 eP	24 20.14	-0.6			
		eS	24 40.92				
CGLM	1.55	201 eP	24 21.21	0.0			
CRP	1.61	203 eP	24 21.76	-0.3			
PMS	1.64	157 eP	24 21.42	-0.9			
SPU	1.68	200 eP	24 21.93	-0.8			
NEA	1.99	23 eP	24 25.87	-1.0			
SLKM	2.28	172 eP	24 29.52	-1.2			
TOA	2.28	105 eP	24 31.64	0.9			
RDY	2.31	199 eP	24 31.94	0.8			
SDG	2.47	93 eP	24 34.61	1.3			
GLI	2.60	135 eP	24 33.44	-1.6			
KLU	2.65	116 eP	24 33.86	-1.9			
	21 obs. associated						

JUN 30, 1990 20h 38m 36.53 ± 0.66s
 37.785 N ± 6.6km 15.076 E ± 5.2km
 DEPTH = 10.0km (geophysicist)
 SICILY (398)

MNO	0.34	296 P	38 43.60	0.1
		eSg	38 49.50	
ATN	0.48	39 Pd	38 46.40	0.0
		iSg	38 55.00	
MSI	0.56	42 Pd	38 48.20	0.2
		eSg	38 57.60	
MEU	0.69	190 P	38 50.20	-0.1
		eSg	39 00.90	
SOI	0.83	69 Pd	38 52.70	0.2
		eSg	39 06.00	
GIB	0.85	284 P	38 53.20	0.1
		eSg	39 06.70	
TDS	2.12	27 P	39 11.80	-0.6
	S.D. = 0.4 on 7 of 7 obs.			

* JUN 30, 1990 20h 46m 15.75 ± 0.81s
 37.755 N ± 12.8km 68.695 E ± 11.3km
 DEPTH = 33.0km (normal)
 3.8mb (3 obs.)
 AFGHANISTAN-USSR BORDER REGION (717)

MAIO	7.50	262 eP	48 04.00	-1.7
		eS	49 48.00	
QUE	7.69	191 eP	48 10.00	1.6
DMN	17.10	121 P	50 13.40	-0.7
PKI	17.33	121 P	50 16.20	-0.8
HFS	40.94	321 eP	53 57.20	0.8
	0.4s	0.70nm		3.7mb
NB2	42.27	322 P	54 07.20	-0.2
	0.9s	2.10nm		3.9mb
YKA	80.06	2 eP	58 24.00	0.9
	0.5s	0.40nm		3.7mb
	S.D. = 1.4 on 7 of 7 obs.			

JUN 30, 1990 20h 51m 45.60 ± 1.83s
 44.149 N ± 9.6km 149.233 E ± 8.4km
 DEPTH = 50.2 ± 14.0 km
 5.0mb (30 obs.) 4.1Msz (4 obs.)
 KURIL ISLANDS (221)

SAP	5.84	262 eP	53 14.00	2.2
MAT	11.33	232 eP	54 25.00	-2.5X
	0.7s	10.96nm		5.1mb

<ECX>. ML 3.2 (ECX), 3.0 (PAS).					1.0s	12.00nm	4.6mb		
CPBX	0.16	287	iPc	46 58.25	1.2	CMS	39.21 148 eP	56 36.00	-20.2X
LMX	0.29	153	ePn	47 00.92	1.2	SNY	40.33 1 eP	57 03.80	-1.5
			S	47 06.76		BWA	42.86 148 eP	57 28.29	2.1
EMX	0.39	195	ePd	47 01.46	-0.2	GTA	43.38 334 P	57 31.30	0.8
			S	47 09.50		CAN	43.85 149 iPc	57 35.20	0.9
GLA	0.72	20	iPd	47 07.90	-0.4	GUN	44.21 310 P	57 37.40	-0.3
RDX	0.83	238	eP	47 09.14	-1.2	PKI	44.40 309 P	57 38.60	-0.6
			S	47 20.61		DMN	44.65 309 P	57 40.60	-0.6
IKP	0.88	289	eP	47 10.10	-1.4	GKN	45.21 309 P	57 45.00	-0.5
ECBX	0.90	176	ePn	47 10.40	-1.4		1.1s 46.00nm		5.3mb
			S	47 23.39		DZM	48.40 121 iPc	58 10.70	0.0
CBX	1.31	268	ePn	47 16.76	-2.1	WMO	52.63 328 eP	58 41.50	-1.0
			S	47 34.24		QUE	60.28 304 eP	59 36.20	-1.3
BAR	1.35	284	eP	47 17.90	-1.6	PRNI	87.55 300 eP	02 16.00	0.3
SPX	1.35	193	ePn	47 17.39	-2.5	PMO	89.54 105 iP	02 29.50	4.2X
			S	47 35.31			1.1s 45.00nm		5.7mb
ENX	1.40	250	ePn	47 18.28	-2.1	VAH	89.81 105 iP	02 30.60	4.1X
			S	47 36.30			1.1s 25.00nm		5.4mb
PBX	1.50	246	ePn	47 19.00	-2.9	TPT	89.81 105 iP	02 30.80	4.2X
			S	47 39.30			1.1s 25.00nm		5.4mb
PLM	1.76	304	eP	47 22.00	-3.8	RUV	90.04 105 iP	02 31.80	4.1X
							1.1s 25.00nm		5.4mb
13 obs. associated						INK	93.78 21 eP	02 43.00	-0.9
JUN 30, 1990 23h 49m 29.28 ± 0.26s						KRA	97.31 321 eP	03 11.30	10.9X
1.320 N ± 4.3km 122.924 E ± 5.9km						CHCH	145.15 160 ePKP	09 05.00	-0.7
DEPTH = 33.0km (normal)						SAN	145.59 160 ePKP	09 07.00	0.5
5.0mb (15 obs.) 4.7Msz (1 obs.)						PEL	145.86 159 ePKP	09 07.50	0.5
MINAHASSA PENINSULA (265)						CNCB	161.23 146 ePKP	09 22.00	-7.0X
						LPB	161.39 145 ePKP	09 23.00	-5.9X
						ZOBO	161.58 144 PKP	09 32.00	2.7X
TSM	5.64	301	eP	50 53.00	0.0		Z 20s 0.09um		
			e	55 54.00			LR	42 00.00	
DAV	6.31	25	eP	51 03.00	0.5	SIV	164.90 165 ePKP	09 32.00	0.1
	1.2s	775.00nm			6.3mb X		i	10 28.70	
AAI	7.24	133	eP	51 17.70	2.1	S.D. = 1.0 on 47 of 58 obs.			
MKS	7.35	208	e(P)	51 23.00	5.9X	% JUN 30, 1990 23h 52m 04.06 ± 0.43s			
			e(S)	52 52.50		46.985 N ± 5.0km 1.459 E ± 4.2km			
KKM	8.17	305	ePc	51 32.80	4.1X	DEPTH = 10.7 ± 3.7 km			
QCP	13.36	352	eP	52 40.00	0.9	FRANCE (538)			
BAG	15.17	351	eP	53 02.00	-1.1	ML 2.9 (LDG).			
MTN	16.26	150	eP	53 16.00	-0.9	LSF	0.74 176 Pg	52 19.00	0.5
KNA	17.92	161	eP	53 38.00	0.3		Sg	52 29.20	
IPM	22.10	279	ePd	54 25.10	1.5	TCF	0.87 143 Pg	52 21.40	0.7
MBL	22.55	188	iPd	54 27.00	-0.9		Sg	52 34.40	
PPI	22.59	266	eP	54 30.50	2.1	BGF	1.04 114 Pg	52 24.00	0.3
QZH	23.85	350	eP	54 41.50	0.9		Sg	52 38.80	
	Z 17s	1.40um			4.5Msz X	MAF	1.08 135 Pg	52 25.20	0.9
WB5	23.87	153	eP	54 40.70	-0.2		Sg	52 40.60	
WRA	23.92	153	P	54 42.00	0.7	MFF	1.17 251 Pg	52 25.00	-0.8
	0.4s	8.90nm			4.6mb		Sg	52 39.20	
PSI	24.02	274	ePd	54 43.70	1.4	AVF	1.31 98 Pn	52 27.80	-0.4
NANU	24.81	196	eP	54 49.00	-0.9		Pg	52 28.50	
	0.4s	10.00nm			4.8mb		Sg	52 45.70	
GUMO	24.90	60	eP	54 51.00	0.2	SSF	1.40 86 Pn	52 28.70	-0.9
			eS	59 14.00			Pg	52 29.80	
GUA	24.92	60	eP	54 51.50	0.5		Sg	52 49.00	
ASPA	27.03	157	eP	55 09.60	-1.0	LOR	1.66 79 Pn	52 32.60	-0.7
	1.1s	15.00nm			4.5mb		Pg	52 34.00	
QIS	27.20	144	ePc	55 11.00	-1.1		Sg	52 55.40	
	1.0s	43.00nm			5.0mb	SMF	1.67 101 Pn	52 32.70	-0.7
WARB	27.58	173	eP	55 15.00	-0.5		Pg	52 34.80	
	0.4s	4.00nm			4.4mb		Sg	52 56.80	
MEKA	28.09	188	eP	55 18.50	-1.7	RJF	1.68 179 Pn	52 33.50	-0.1
	0.4s	16.00nm			5.1mb		Pg	52 36.40	
KMI	30.65	322	eP	55 44.50	1.1		Sg	52 58.20	
	2.0s	60.00nm			5.0mb	LBF	1.72 89 Pg	52 36.00	1.8
	N 13s	0.30um					Sg	52 58.00	
CTA	31.24	134	P	55 48.00	-0.3	LDF	1.93 327 Pg	52 37.00	-0.1
	1.2s	35.94nm			5.1mb		Sg	53 01.20	
			iS	01 14.00		LPF	1.99 303 Pg	52 38.20	0.2
CD2	34.58	330	eP	56 16.40	-0.9		Sg	53 02.00	
XAN	35.09	340	P	56 20.00	-1.6	CAF	2.10 168 Pn	52 39.40	-0.3
TIY	37.48	346	eP	56 42.30	0.5		Sg	53 12.00	
	N 19s	2.10um				GRR	2.10 313 Pg	52 40.20	0.6
			S	02 31.50			Sg	53 05.40	
MAT	37.79	20	eP	56 44.00	-0.4	LFF	2.11 194 Pg	52 44.20	4.5X
SHL	38.42	311	iP	56 49.50	-0.4		Sg	53 13.00	
			iS	02 46.00		FLN	2.21 324 Pg	52 42.00	0.8
LZH	38.86	335	Pc	56 55.50	2.1		Sg	53 08.80	
	1.5s	25.00nm			4.8mb	LPO	2.31 185 Pg	52 47.80	5.1X
	Z 18s	0.97um			4.7Msz		Sg	53 18.00	
	E 14s	0.72um					Sg	53 18.00	
			pP	57 04.00	29kmX	S.D. = 0.8 on 16 of 18 obs.			
			sP	57 06.50					
			PP	58 25.00					
BJI	39.03	352	eP	56 54.00	-0.6				

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					
HYT	XX	X	X	X	XX	X		X	X	X	XXXXXX		XXXX	XX	X	XX	XXXXXX		XXX	XXX	X	X													
IAS	X	XX		X		X		X	XX	X	X		X	XX	X	X			XXX	XXX		X	X		XX				X						
IFR			X					XXXX	X	X	XX	X	XXXXXX	X	XX	X		X	X	XXXXXX	X	X	X	X	X	X	X	X	X	X					
IGT			X					XX	X		X	X	XX						XX	XXXXXX	XXXX	XX	XXX	XXXXXX	XXX	XXXXXX	XXX	XXX	XXX	XXX					
IHA					X	XXX	X	XX	X			XX		X	X			X		X	X	X	X	X		X			XX	XX					
IJDJ					X			XX	XX				XX	X	X	X	X	X	XX	XX	X	XXX	XX	XXXXX	XXXX										
III			XX	X	X			XX	XX	X	X	X	XX	X	X				XX		X	X		XXX	XX	X	XXX			X					
IJJ			XX	X				XXX	XXX	XX	X	X	XX	X	X				XXX		X	X		XX	XX	X	XXX	X		X					
IIT					X			XX	X	X	X	X	X						X		X	X		X	X	X	XX	X	XX	X					
IMA	XXXXXX	X	X	XXXXXX	X	X	XX	XXXXX	XXX	XXXX	X	X	XXXXXXXXXX	X	XXXXX	X	X	XXXXXXXXXX	X	XX	XXXXXXXXXX	X	XX	XXXXXX	XX	XXXXXXXXXX	X	XXXXXX	XXX	XXX	XXX				
IMI	XX	X	X	XXX	XX		X	X	XX		X	X	X	X	X	X	X	XX	X	X	XX	X	XX	X	X	XX	X	XXXX	X	XXXX					
IMW					X	XX									X									XX											
INK	XXXXXX	XXXX	XXXX	X			XX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXXXX	XXXX		XXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXX		XXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
IPM	XXXXX	X	X	X	XX	X	XXX	XX	XXXX	XX	XX	XX	XX	XX	X	XXX	XX	XX	XX	X	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX			
ISA	XX	X	X	X	XX	X	XX	X	X	X	XXX	X	X	XXXXXX	XX	X		X	X	XXX	XXXXXX	X	XX	X	X	X	X	X	X	X	X	X			
ISK			X	XX			X	X	XX	X	X	XXX	X	X	XX	X					XXX	XX	XXX	XXXX	XX	XX	XXXX	XX	XX	XXXX	XX	XX			
ISR	XXXX	XX	X	X	X	X	XXX	XXX	XX	X	X	XXXX	XX	XXX	XX	XX		XX	X	X	XXX	X	X	XX	XX	XX	XX	XX	XX	XX	XX	XX			
ISSF	X	X									X	X	X	XX	X	X							X	X	X	X	X	X	X	X	X	X			
ITB						X	X	XXX					X	X	XX	X	X						X	X	X	X	X	X	X	X	X	X			
ITB1						X	X	XXX					X	X	XX	X	X						X	X	X	X	X	X	X	X	X	X			
ITB7						X	X	XXX					X	X	XX	X	X						X	X	X	X	X	X	X	X	X	X			
ITM	X	XX	XXXX	XX	XXXX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX			
ITR	XX	XX	X	XXX	X	XXXX	X	XXXX	XXXXXX	X																									
ITU					X	XXX		X							X	XX	X	X	X		XXX		XXX	X	X	X	X	X	X	X	X	X			
IWA	X		XX	X	X	X	XX	X							XX	XX	X	X	X		X	X	X	X	XXX										
IZI	XX	XX	XX	XXXXXX	XXXXXX	XX	X	XX	XXXXXX	XX	XXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
IJM	X	X	XX	XXXXXX	XX	XXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX		
JACH	XX	X	X	X	XXX	X	XXXX	X	X	X	X	XXXXXX	X	XX	X	X		XX	XXX	XX	X	XXXX													
JAU	X	X									X	X	X	XX	X					X				X	X										
JCW		X	X				X												X	X	X	X		X											
JMB			X					XX	XXX	X			X	X	X	X				XX	X	XXX													
JMI							XXX					XX	XX	X	X																				
JNE		XX					XXX				X	XX	X	X	X																				
JNW	X	XX					XXX			X	X	XX	X	X	X				X																
JSC			X	XX		X	X	XX	X	X	XX	X	X	XX	X																				
KAF																					XX	XXXX													
KAGJ								X				X	X	X	XX	X																			
KAKJ	X				X	X	XXX	X	X			XX	XX	X	XX	X	X	X	X	XXXX	XX	X	XXX	X	XXXX	XXX	X	XXX	X	XXX	X	XXX			
KAS	XX				X		XXX	XXX	X		XX		XX	X	XX	X				X	XXX		X	X											
KBA	X		XXXX		X								X	XX						X	X														
KBN													XXX	X	XX	X	X																		
KBS	X	X			X	X	X	X	X	X	X	X	X	X	X	X				XXX	X	X	X	X	X	X	X	X	X	X	X	X	X		
KCT			XXX	XX	XXX	X		XX		XXX			XX						XX	XX	X			XXXXXX	X										
KDB			XX	XXXX	X	X	X	XXXX	XXX	XX	XXXX		XXX	X	XXXX	X	X	X	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX		
KDC					XX	XX	XX	X	XX	X	XX	X	XX	XX	X	XX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
KDZ	X	XX	XX			X	X	XXX	XXXXX	X	X		XX	XX	X	X				XXXX		XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX		
KEK	X	XX	XX	X	XXX	X	XXX	XX	X	XXXX	XXX	XX	X	XXX	X	XXXXXXXXXX	X	XX		XXXXXXXXXX	X	XX	XXXXXXXXXX	X	XX	XXXXXXXXXX	X	XX	XXXXXXXXXX	X	XX	XXXXXXXXXX			
KER	X	X	X		X			XX			X	XXX	X	XXX	X	XXX					XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX		
KEV	XX	X	X	X	XX	X	X	XX	XXX		X	X	XXXXXXXX	X	X	XX	X		XX	XXXXXXXX	X	XX	XXXX	X	X	X	X	X	X	X	X	X			
KFNJ	X				X			X	X			X	XX		X	X				X		XXX	X	XX	XX	X									
KGM	XX	XX	X	X			X	XX	X	X	X	X	XXX	X	XX	XX	XX			X	XX	XX	X	XXXX	XXXX	X	X	X	X	X	X	X	X		
KGT						XX		X				X	X																						
KHC	XXXXXXXXXX	XXXXXXXXXX	XX	XX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	X	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		
KHL	XXXXX	X	XXXX	XX	XXX	X	XX	X	X	X	XX	XX	XXX	X	XX	XX	XXXX			XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX		
KHZ	XXXXXX	X	X		XX	XX	X								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
KIC	XX	XXXX	XXX	XX	X	X	XX	XXXX	X	X		X	X	XXX	XXXX	X	XX	XX	XXXXXXXXXXXX	X	XXXXXXXXXXXX	X	XXXXXXXXXXXX	X	XXXXXXXXXXXX	X	XXXXXXXXXXXX	X	XXXXXXXXXXXX	X	XXXXXXXXXXXX	X	XXXXXXXXXXXX		
KKM	X	XX	XX	XXXX	X		XXX	X	XXX	X	X	X	XX	X	XXX					XXXX		XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX		
KKN																																			
KLB	XX	XX		XX	XXX	XX	X	XX	XXX				XXXXXXXX	X	X	XX	XX	X	X	XXX		XX	XX	XXXX	X	X	XXXX								
KLM							X	XX	X	X			X	XX																					
KLU	XXXX	X	X	XX	X	XX	XXXX	X	X	XXXX	X	XXXX	X	X	XXXX	X				X	XX	XXX	XX	XX	XXXX	XX	XXXX	XX	XXXX	XX	XXXX	XX	XXXX		
KMI	XXXXXXXXXX	XXXXXXXXXX	X	XX	XXXXXXXXXX	XX	XXXXXXXXXX	XX	X	X	XX	XX	XXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
KMR	X	X	X				XX	X							XXX	X	X						XXX	X	X										
KMTA															XX	X	X	X					XXX			X	X	X	X	X	X	X	X	X	
KMY						XX									X	XX	X																		
KNA	XXXXXX	X	XXXX	X	X	XXXXXXXXXXXX	XXX	XXXX	XX	XXXXXXXXXXXXXXXXXXXX	X																								
KNT		X			XX			X	X	X	X	XX		XXX									XXXXXXXXXXXXXXXXXXXX	XX	XXXX	X	XXXX	XX							
KOD		X	X				X	X	X	X	X	X	XXXX	XX	X	XX				X	X	XX	XXXX												
KOSW			X					X	X	X																									
KRA	X							XXXXXXXXXXXXXXXXXXXX	X	XXXX	XXXX	XX	X	X	X					XXXX	XXXX	X	XXXX	X	XXXX	X	XXXX	X	XXXX	X	XXXX	X	XXXX		
KRI	XX	X	X	XXXX																															

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
PCA	X	X		X			X	X	X	X				X					X		X	X									
PCC	XX	X	X	X	XX		X	X	X	X			X	X	XXXXX	XX	X	X	X	X	X	XX	XXXXX	X	X	XX	XX	XXX	X	X	
PCH		XX	X	X	X	XXX		X	XXXXX	XXX	X	X	XXX	XX	X	XX	X	XX	XX	XXX	X	XXX	XXXX								
PCP	X		X	X	XXX		X	X	XX			X	X	X	X	X	X	XX	X	X	X	XX	X	X	XX		XXX	X	XXXX		
PDA		X	X	X	X	X	X	X	X	X		X	X	X	XX		X	X	X	X	X	X	XX	XX		X	X	X	X	X	
PEC					X			X	X				X			X	X	X				X								X	
PEL	X	XX	X	X	X	XX		XXX	XXX	X	X	XXXXXX	X	X	XX	X	X	XXX	XX	XXXXXX	XX	XXXX			XXX	XXX	X	XXX	XXX	XXX	
PGB	X	XX					XX	XX	X	X			XX	XX	XX	X	X			X	XX	XXX				X					
PGC	X				X	X		X	X			X	XXX	X					X	X	XX	X	XXX	X		XX			XX		
PGD	XXX	X	XX	XX	X		XXX	X	X	X	XX	X	XXXX	X	X	XXX	XXXXX	X	XXXXX	X	XXXXX	X	XX	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX						
PGF	XXXXXX	XX	XX	X	X		X	X	XX	X	X	X	X	XXXX	X		XX	X	XX	XXX	X	X	XXX		XXXXXX	XXX	XXXX	X	XX		
PGZ		X				X	X												X							X	X	X	X		
PHAM	XX	X	X	XX			X		X				X	X	X		X	X	X			XX	X	X		X	X	X	X		
PICO	X	X	X	X					X				X	X	X				X	X	X										
PII	X	X	XX	X	X		XX	X	X	X	X		X	X	X	X	X	X	X	X	XXXX	X	XX	XXX	X	X	XXX	XX	XXX	X	
PJG	XX				XXXXX		XXXXXXXXXXXXXXXXXX	XX	X	XXXXXXXXXXXXXXXXXX	XX	XXXXX	XX	XXX	XXXX	X	XX	X	X	X	XX	XX	XX	X	XXX	XXXX	X	XXXXXXXX	XX		
PKI	XXXXXX	XX	XXXXXXXXXXXX	X	XXXXXXXXXXXXXXXXXXXX	XX	XXXXXXXXXXXXXXXXXXXX	XX	XXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXX
PLAT							X	X				X	X	XX	XX	XX			X	X	X										
PLD	X		X		X		X	XXXX	X	X			XX	XX	X					XXX			XX			X			X	XXX	
PLDF	XXX	X	XX	XX	X		X	X			X	X		X	X	XXX	XXXX	X	XX	XXX	XXXXX	X	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX							
PLE	X		XXX		X		XX	X					XXXX	X	X	X			X	X	X		XX						X		
PLM	XX	X	XX	X	XX	X	X	XXXX	X	X	XX	XX	X	XXXXXX	XX	XX	X	X	X	X	X	XXX	X	XXXX	XX	X	X	XXX	XX	XXX	
PLRM	XXXX	XX	X	XX	X	XX	XXXX	X	X	XXXX	X	XXXX	X	XX	X	XX	XXXX	X	X	XX	X	XX	X		XXXX	XX	XX	X	X	XX	
PMC	XXXXXXXXXX	X											XXXX	XXX																X	
PMO	X				X		X	X					XXX		X	X	X	X	X	X	XXXX	X		XXX	X	X	X	X	X	X	
PMR	XXXXXX	X	XXX	X	X	XX	XXX	X	X	XXXX	X	X	XXXXXXXXXX	X	XXXX	X	X	X	X	XXXX	X	XXXXXXXX	XXXX	XX	X	XXXX	XX	XX	XX	XX	
PMS	X	XXX	XX	X	XX	X	XXX	X	X	XXXX	X	XXXX	X	XX	X	XX	XXXX	X		X	XX	XXXX	XX	X	XXXX	XX	X	XXXX	XX	X	
PNJ							XXX	X					XX							X	X		X								
PNT	XXXXXXXX	XX	XXX	X	XXX	XX	XX	XXX	X	XXX	X	X	XXXXXXXXXXXX				X	X	XXX	XXXX	XXXXXXXXXXXX	XXXX	XXX	X	X	X	X	X	X	XX	
POO	X	XX	X	X	X		XX	XX	X	X	X		XX	X	X	X			X	XX	XX	X	X		XXXX	X					
PORP		X		X			X	X	X				X	X	X	X	X	X	X	X	X	XXX	X	X	X	XX	XX	XX	X		
PPCY	X					X	X	X	X			XX	XX	X				X	X	XX	X		X			X	X				
PPD		X		X					X	X			X						X	X	XX		XX								
PPE	X	XX	X	X	X	X		X	XX				X	X	XX	X	X		XX	XXX		X	X	XX		X	X	X	X	X	
PPI	X	XX			X	XX	X	XXXXXX	XX	X		XX	XXX	X	X	X	X		XXX	XX	XXXXXX	X	XXXX	XX	X	XXXX	XX	XX	XX	X	
PPM		X		XX	XX	X	XXX	X	X	XX	X	X	XX	XX	X	X	XX		XX	XXX	X	X	XX		X	XXX	XX	X	X		
PPN	X					X	X	X					X	XXX					X		X	X	X		X	X	X	X	X		
PPT								X					XXX							X	X	X		X							
PRI	XXX	X	X	X	XX	X	X	X	X	X	X	X	XXXXXXXXXX	X	X	XX	X	X	X	X	XXX	XXXXXXXX	X	XXXX	XXX	X	X	X	XX	X	
PRM		X				X	X	X	X	X	X		X	X					X	X	X	X	X		XXXX	X					
PRNI	X	X	XX	X	X	X	XXXX	XX	X	XX	XXXX	XX	XXXX	XX	X	XXX	XX	XXXXXXXXXX	X	XX	X	XXXX	XXXXXXXX	X	X	X	X	X	X	X	
PRS	XXX	X	X	X	XX	X	X	XXX	X			X	XXXXXXXXXX	X	X	XX	X	X	X	X	XXX	XXXX	X	XX	X	XXX	XXX	X	X	XX	
PRU	XXXXXXXX	XXXX	X	XX	X	XXXXXXXXXXXXXXXXXX	X	XXXX	XXXXXXXXXX	XXXXXXXXXX	X	XXX	XXXXXXXXXX	XXXX	XXXX	X	XXXXXXXXXX	XXXX	XXXX	X	XXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
PRY	XXXXXX	X	XXX	X	XXXXXX	XXXXXX	XX	XX	XX	XX	X	X	X	X	X	X	X	X	X	XXXX	X	X	XXX	X	X	X	X	X	X	X	
PSI		X			X	X	XX	XX	X	XX	X	XX	X	XX	X	XX	X	X	X	XXXXXX	XXXXXXXXXX	XXX	X	X	X	X	X	X	X	XX	
PSN	X	XX				XX	XX	X		X			X	X	X	X	X	X	X	X	XXX		XXX			X			X	X	
PSO			XX	X		X	XX	X	XX				X						X	X		XXX	X	X	XX	X	X	X	X	X	
PSZ			X				X					XX	X	X	X				XX			X	X			X					
PT02	XX						X	X	XX	X	X											XX	X	XX	XXXX			XX			
PT03	X	XX	XXX	X	X	X	XX	X	XX	X	XXX	X	X	X	X	X			X	XX	X	X	X	X	XXXX	X					
PT06	XXXX	XX	XX	X	XX	X	XX	X	X	X	XX	X	XX	X	XX				X	XX	X	X	X	XXX	X	XX	XX	X	X		
PT08	XXXXX	X	XXX	X	X	XXXX	X	X	XX	X	XXX	X	X	XX	XX	XX			XXXX	XX	XX	X	XX	XXXX	XXXXX		X				
PT10	XXXXXX	XXX	X	X	XXXX	X	X	XXXX	XX	X	X	XXX							X		X	XXXX								XXXXXX	
PTI	X				XX	X	X	XX	X				XX	X						X			X	XXXX	X	X	X	X	X	X	
PTJ	X	XX	X	XX	X	X	X	X	XX	X	XX	X	X	X	XXXXXXXXXX	X	X	XX	X	XXXX	XXX	X	XX	XXXX	X	XX	XX	XXXX	XXXX	XXX	
PTT	X	XX	X	X			XX	X	X	XX			X	XX	X					X	XXX		X	XX							
PUZ	XXXXXX				X	X	XX	X	XXX	X									X	X	X		XX	XX	X	X	X	X	X	X	
PV09					X	X	XXX	X				X								X	X		X	X	X	X	X	X	X	X	
PVC	XXXXX	X	XX	XXX	X	X	XX	XX	X	X			XXX	XX	X	XX	XXX	X	X	XX	X	XXXX	XX	X	X	X	X	XXX	X	X	
PVL	X	XX	X				XX	XXX	X	X			X	XX	X	X				XXXXXX	X	XXX		XX							
PVY			XX	X	XX			XX	X				X	XX	XX	X	X	X	X	X	X	X	XX	XXX						X	
PWA	XXXXX	XX	X	XX	X	XX	XXXX	X	X	XXXX	X	XXXX	X	XX	X	X	XXXX	X	X	XX	XX	XX	X		XXXX	XX	XX	X	XX	XX	
PWLA		X				X	XXXXXX					X		X					X		X	X								X	
PYM	XXX	X	XX	X	X		X	X			X		X	X	X	X	X		X	XX	X	XX	X	XX	X	X	X	X	X	X	
PZZ	XX	XXXX	X	XXX	X	XX	XX	XXX	X	X	XX	X	XXX	XX	XX	XX	XX	XX	XX	XX	X	XXX	X	XX	X	XXXXXX	XXXXX	XXXX	X		
QASM			X						X				XX	X	X	X					XXXX		X	XX							
QCP	XX			X		X	XX	X				X	XX	XX	XX	X	X	X	X	X	XX	X	X	XX	X	X	X	X	X	X	
QIS	XXXXXX	X	XX	X	X	XXXXXXXXXX	XXX	X	X	XX	XXXX	XXXXXXXXXXXXXXXXXXXX	XXXX	X	XXXX	XXXXXXXXXXXX	XXXXXX	X	XXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
QIZ	XX	XX	X	X	X	X	XX	X	XX		X	X	XXXXXXXXXX	X	X	XX			X	XXXXXX	X	XX	XXXX	X	XXXXXX				X		
QLP	XX	X		X		XX	XXX	X	X	X	XX	X	XXX	XX	XX				X	X	X	X		X	XXX						
QTFJ	X				X		X						X									X	X	XX							
QTO		X	XX	X	X	X	X	XX											X	X		X	X	X	X	X	X	X	X	X	
QUE	XX	XX	X	X	X	XX	X	X	XXX	XXXX		X	XXXXXXXXXXXXXXXXXX	XX	XXX	X	XXX	XXX		X	XXXX	XXX	XXXXXXXX	XX	XXXXXXXXXXXX						
QUR		X	XX	X	X	X	XX	X	XX	X	XX		X	X	X	X	X		X		X		X	X	X	X	X	X	X	X	
QZH	X	XX			X	X	X	XX	X	X		X																			

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
REVF	X		X	X			X	X	X					X							XX		X						XX		
REY	X							X					X	XX		X	X				XXX		X						X		
RGS	X												X	XX		X	X				XXX		X	X					X		
RIV							X	X						XX	X						XXX		X			X			X		
RIY		X	XX	X				X	X	X		X		XXX	XX	X				X	X	X	XXX		X	X	X	X	X		
RJF	XX	XXX	X	XX	X	X	X	X	XXXXX	XX		X	XXXXXXXXXX	XX	XXX			X	X	XXXX	XX	XX	XX	XX	X	XX	XXX	XXX	X		
RKG	X	X							X				X	XX	X					X									X		
RMP	X	X	X	XXX		X	X	X		X	X	X	XXX	XXX	XX	X	X			XXXX	X	XXX	X	XXX	XXXX	X	X	XX	X		
RMW	XXXXX	X	X	XXXX	XX		XX	X	XXX	XXX		XXXX	XX	XXXXXX	XXX	X	XXXX			XX	X	XXX	X	XXXXXXXXXXXX		XX	XXX	XX	X		
RND	XXXXX	X	X	X	X																										
ROB		X	X	XXX	XX		XXX	XXX			X	X	X	X	X	X			XX	X	XX	X	X	XXX	X	XX	X	XXXX			
ROCH	X	XX	X	X	X	XXX	X	XXXXX	XX	X	X	XXX	XX	XXX	XX	X	X			XX	XXX	XX	X	XXXX							
RPW			X				X	X	X					X						X	XX	X									
RRL	X	XX	X	XXX	X		XX	X	X		X	X	X	X	X	XXX	X	X		XX	XX	XX	X	XXX	X	XX	XXXX	X	XXX		
RSCP	X	XX			X	X	XXXXXX	X	X	XX		X	X	XX	XX	X	XX				X	X	XXX	X		XX	X	XX	XX		
RSM	X	XX	X	X				X					X	X	X				X	X	XX	X	XXX	XX	XXXXX	XXXXX	XX	X	X		
RSNY					XX	X	X	X	X	X	X	X	X	XXX	X	X	X			X	X	XXX	X	XX	X	X	XX	X	XX		
RSP	X	XX	X	XXX	X		XXX	X	X	X	X	X	X	X	X	XXX	X	X		XX	X	XX	X	XXX	X	XX	XXXX				
RSSD	XXX	X	X		XX	X	X	XXXXXXXXXXXX	X	XXXX	X	XX	X	XXXXXX	X	X	X		XX	X	XXXX	XXX	X	XXX	X	XX	XXXX	XXX	X		
RTBS	XXXXXXXX	X	X	XXXX	XXXX								XXXXXXXX	X	XXXXX	XXX	XXX	X		X	XXXXXXXXXXXXXX	XX	XX	XXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX		
RTCB	XX	XXXXXXXX	X	X	XXXXX	XXXXXXXX	XXX	X					XXX	XX	XXX	X	XX	X		X		X	XX	XX	XX	XX	XX	XX	XX		
RTCV	XX	XXXXXXXX	X	X	XXXXX	XXXXXXXXXXXX	XXX	X	X	X	XXXXXXXX	XXXXX	XXXX	XXX	XXX	X	X			X	XXXXXXXXXXXXXX	XX	X	XXXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX		
RTLL	XX	XXXXXXXX	X	XXXXXXXXXXXXXXXXXXXXXXXXXXXX				X	X	XXXXXXXX	XXXXXX	XX	XXX	X	XXXXXXXXXXXXXXXXXXXX	XX	XX			XXXXXXXXXXXXXX	XX	XX	XXXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX		
RTRS	XX	XXXXXXXX	X	X	XXXXXXXXXXXXXXXXXXXXXXXXXXXX			X	X	XXXXXXXX	XXXXXX	XX	XXX	X	XXXXXXXXXXXXXXXXXXXX	X	XX			XXXXXXXXXXXXXX	X	XX	XXXXXXXX	XXXX	XXXXXXXX	XXXX	XXXX	XXXX	XXXX		
RUV	X				X	X	X	X					X	X	X	X				X	X	X	XXXX	X	X	XXX	X	X	X		
RVC		X					X	X	X				X							X	X	XX	X								
RVR	XXXX	X	X	X	X	X	XX	X	XXX	X	XXX	X	XXX	XX	XX	X	X	X	X	X	X	X	X	XXXXXX	X	X	XXX	X	XX	XX	
RYD									X				XX	X	X	X					XXXX	X			X	XX	X				
RZN	X	XX	X	XX			XX	X	XX	XXXXXXXXXX	X		XX	XX	X	X	X			X	X	XXXXX	X	X	XXXX	X	XX	X	XX	XXX	
SAL	X	X	X	X			X	X	X	X	X	X	XXX	X	X	X	X			X	X	XXXXX	X	XX	XXX	X	XX	XXX	XX	XXX	
SALJ	XX				X		XX	X					X	XX		X	X			X	X	XX	XX	XX	XXX	X					
SAN		XX	X		X	XXX	X	XXXXX	XXX	X		XX	XXX	X	X	XX	X			X	X	XX	X	X	X	X	X	X	X		
SAO	XXX	X	X	X	XX	XX	X	X	X	XX		X	X	X	XXXXX	X	X	X		X	X	XXX	XXXXX	X	XXXX	XX	XXX	X	XX	X	
SAP	X						X	X													X	XX	X	X	XX	XX	XX	XX	X		
SAX	X	X	X	XX				X	X				X	X	XX	X	XX	X			X	XXX		XXX	XXX	XXX	X	XX	XX		
SBA	X	XX	XX	XX	X	X	X	X	X	X	X	X	XX	X	XX	X	XX	X		X	X	X	XX	XXXX	XX	X	X	X	XX		
SBB	XXXX	XX	XXX	XX	X	X	XX	X	XXX	X	XXXX	XX	XX	X	XXXXXX	XX	XX	X	X	X	X	XXX	X	XXXX	XX	XX	X	XX	XXX		
SBF	XXX	XX	XX	XXX	X	X	X	X	XXX	X	X	X	XX	X	XXXX	X	X	X		X	XX	XXXXX	X	XXX	XXX	XX	XXXXXX	XXXXXX	XXXXXX		
SCH	X	X	X		X	X	X	XXXXXXXXXXXX	XX	X	X	XXX	X	X	X	X	X			X	XXXXX	XXXXXXXXXX		XXX							
SCM										XXX	X	X	XX	X	X	X	XXXX	X		X	XX	XXX	XX	XX	X	XX	XX	X	X		
SCX		X	XX		X	XX		X	X	X	XX								XX	X	X	X	XXXXX	X	XXXXXXXX	XX					
SDA														XX	X	X	X								XX				XX	X	
SDG		X	X	X			X			XXX	X	XX	X	XXXX	X	X	XXX				X	X	XXX	X	XX	XX	XX	XX	X		
SDI	X	XXXX	XXX	XX	X	X	XXXX	X	X	X	X	X	XXXX	X	XX	XX	XX	XX		XX	X	XXXXXXXXXXXX	XXX	XXXX	XXX	XXXXXXXX	XX	XXX	XXXXXX		
SDN	XX	X	X		X	XXX	X	X				X	X	XXX	X					X	X	XX	XX	XX	XXX	X	XXX	X	X		
SDV	X		XX		X	X	X	XXX	X			X	X	X							X	X	X	X	X	X	X	X	X		
SEG		X	XX	XX	X	XX	X	X	X	X	X	X	XX	X	X	X	X				XX	X	XX	X	X	X	X	X	X		
SEK	X	XXXXXX	XXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXX	XX	XXXX	XX	XXXX	X	XX	X	XX	X	XX	X	X			X	X	XX	XXXX	XXX	XX	X	X	XXX	XXX	XXX	X
SES	XXXX	XX	XX	X	XXX	X	XXXXXXXXXXXX	XX	XXX	X	X	X	XXXX	XX	X	XX	X			X	X	X	XXXXX	XXXXXXXX	XX	XXXX	XXXXX	X	XXXXXX	XX	
SEW	XXXX	X	X	X	XXX	XXX	X	X	XX	X	X	X	XX	X	XX	XXXX	X			X	XX	XXX	XX	X	X	X	XX	X	X		
SFG		X	XX		X	XX	X						X	X	X	X	X				X	X	X	X	X	X	X	X	X		
SFI	XXX	X	X	XXX	XXX	XX	X			X		X	XXX	X	X	XXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX						
SGE			X	X			X	X					X								X	X	X	XXXX	XXX	X	X	X	X		
SGO	X	XX	X	XX	X	X	XXXX	XX	X	XXXX	X	X	XXX	X	XX	XX	XXX	X		XX	XXXX	XXXX	XXXXXX	XXXXXXXX	XXXX	X	XX	XXX	XX		
SHI	X	X	X		X	XX	X	X	XXX	XX	X	XXX	XX	X	XXXX	XX	XXX	X		XX	XXXXXXXXXX	X	X	XXXXXXXX	XXX	XXXXXXXX	XXXX	XXXXXX	X		
SHK	X												XXX	X	X						XX	X	X						X		
SHL			XX	XXX	X		X	X				X	XX	X	XXXXXXXX	XX	XX			XXXX	XXX	XX	XXXXXXXX			X	X	XXXX	X		
SHNJ							X						X	X	XX	X					X	X	X			XXX	X				
SIT	XX	X	X		X	X	X	X	XXX			X	X	XXX	X						X		XX	X	X	XXX	X	X	X		
SIV	XXXXXXXXXXXXXXXXXX	XX	XXXX	XXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX															XXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
SJG				X									X	X	X	X					X	X	X	X	X	X	X	X	X		
SKO	XXX	XX	XXXX	XXXX	XXX	XXXXXX	XXXXXXXXXXXX	XXXX	X	X	XXXX	X	XXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
SKT	XXXXX	XX	X	X	X	XX	X	X	XXXXX	X	XXXX	X	XX	X	X	XXXX	X			X	XX	XXX	XX	XX	XXXXX	XX	XX	XX	XX		
SLB	X		X		XX	X	X	X					X	XX							X	X	XXX	X							
SLE	X	XX	X	XXX			X	X				X	X	XX	X	X	X				X	XXXX	XX	XX	XX	X	X	XX	XX		
SLKM	XXXX	X	X	XX	X	XXX	XXXX	X	X	XXXX	X	XXXX	X	X	X	XXXX	X			X	XX	XXX	XX	X	XXXX	XX	X	X	X		
SLR	X	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	X	XXXXX	XXXXXX	XX	XXXX	X	XXX	X	XXXXXX	X	XX	XXXX	X			XX	XXXX	XXXX	XXXX	X	X	XXX	XXXX	XXXX	XX		
SLW	X	X			XX	X	XX						XX								X	X	X								
SMF	XXXXX	X	XXXXX	X	XX	X	XXXXXXXX	XXXXXXXXXXXX	X	XX	XXXXXXXX	XXX	XX	XXXX	X	XXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
SMG	X		X	X		X	XXXX	X	XX	XXX	X	X	XX	XXX	X	XXXX	X	XX			XXX	X	X	XX	X	XX	XX	XX	XX		
SML		XXXX	XX	X	XX	X	XXXX	X	XXXXX	X	XXXX	XX	X	X	XXXX	X				X	XX	XXX	XX	X	XXXX	XX	XX	X	XX		
SMY	X	XX	X		X		X	XX	X			X	XX	X	X	X					XX	XX	X	X	X	X	XX	XX	XX		
SNF	X	X					X	X					XX	XX	X	X	X	X		X	X	XXX	X	X	XX	XXX	X	X	X		
SNG	XX		X	X	X	XXXX	XXXXXX	XX	X	XX	XXX	X	X	XXX	XX	XX	X			XX	XX	X	XXXXXXXX	XXXXXX	XXXXXX	X	X	X	X		
SNY	XXXXX		X	X	X	XXX	XXXX	XX	X	X	X	XXXXXX	XX	X	XXXXXXXX	X	XXXXXXXX	X	XXXXXXXX	XXXX	XX	X	X	XXXXXXXX		X	X	X	X		
SNZO	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		
SOP	XX	XX	XX		X		XXX	X	X	X			X	XX	X	X	X	X	XX	XXX	X	X	X	X	X	X	X	X	X	X		
SPA	XXXXXX	XX	XX	X	X	X	X	XXX	XX	X		XXXX	XXXXXXXX	XXX	X	XXX	X	XXX	XXX	XXX	XXX	X	XX	X	X	XXXX	XXX	XX	X	XX	X	
SPC	XXXXXX	XX	X	XX		XXXXXX	XXXXXX	XX	XXX	X	X	XXXXXXXXXX	XX	XXXXX	X	XXXXXXXXXXXXXXXX	X	XXXX	X	XXXXXXXXXXXXXXXX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	X	XXXX	X	
SPU	XXXX	XX	X	X	XXX		XXXX	X	X	XXXX	X	XXXX	X	XX	X	XXXX				X	XX	XXX	X	X	XXXX	XX	X	X				
SOTA	X	XX	X	XXXXXX			XXX	X	XXX	X	X	X	XX	X	XXXX	XX	XXXX	X	X	XXX	XXXXX	X	XX	XXXX	X	X	XXXXXX	XXX		XXXXXX		
SRO	XXXXX	X	XX		X		XXXXXXXXXX	X	XX	X	X	X	X	XX	XXXX	XX	X	XX	X	X	XXX	XXXXXX	XXXXXX	XX	X	XXXX	XX	XXX	XX	XXX	XXX	
SRS		X			XX			XX	X	X	X	X	X	X	XXX																	
SSE	XXXXX	X	XXXXXXXXXXXXXXXX		XX	X	XXXX	X	X	XX	XXXX	XXXXXX	XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX																	
SSF	XXXXXXXX	XXXXXX	X	XX	X		XXXXXXXXXXXXXXXXXXXXXX	XX	XXXXXXXXXXXXXXXXXXXX	XX	XXXXXXXXXXXXXXXXXXXX	XXX	X	XXXX	XXXX	XXXXXX	XX	XX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
STK	XX		XXXXXXXXXX		XXXX	XXX	XXXX		XX	X	XX	XX	XXXXXX	XX	XX	XXXXXX				X	X	X	XXXX	XX	X	X	XXXXXX	X	XXX	X	X	
STS									X											X	XXX	X	XX	X								
STV	XX	XXXXX	X	XXX	X	XX		XX	XXX	X		X	XX	X	XXX	XX		XX		X	XX	X	X	XXX	X	X	XXXXXX	XXXXXX		X		
SUA	XXXXX	XX	X	X	X	XXX		XXXXX	X	XXXXX	X	XXXX	X	XX	X	X	XX	XXXX	X		X	XX	X	X	XX	X	XXXX	XX	X	X	X	
SUE					X			X																								
SUF	X	XXXXXXXXXX	X	X	XXXX		XX	XX																								
SVA		XX	X				XX	X	X		X	X	XX	X	X																	
SVB	X		X				XX	XX	X																							
SVW		XXXX	X	X	X		X	X	XXX	XX	X	XXXX	XX	X	XXXXXX	XX	X	XXX	X	X	X	XX	XX	XXXX	XXX	X	X	XXXX	X	XX	XX	
SWZ	XXXXXX	XX	XXX		XXXXXXXXXXXXXXXXXXXX	X	XXXXXX	XX	XXXX	XX	XXXX	XX	XXXX	X	X																	
SYP			X	X			XXX	X	XX				X	XX	X	X																
TAB	X	X	X		X	X	XXXX	XX	XX	X		X	XX	XXX	X	X	XXXX				X	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
TACH	X	XX	X	X	X	XXX		XX	XXXXX	XXX	X	X	XXX	XX	XX	XX					XX	XXXX	XX	XXX	XXXX							
TBH			X				XX																									
TBR	X	X					X	X	XX																							
TCE							XXX	X	X																							
TCF	XXXXXX	XX	X	X	X		XXXXXXXXXXXXXXXXXXXX	XXXX					XXXXXXXXXXXXXXXXXXXX	XX	X	XXXX																
TCW	XXXXX						X	XX																								
TDS	X	XX	X	XX	X	X	X	XXX	XX	XXXX	X		X	XXX	X	X	XXX	X														
TEH	XXXX	X	XXX	XXX	X	XX	XXXXXXXXXXXXXXXXXXXX	X	XXXXXX	XX	XXXX	X	X																			
TGL	X	X	X	X			XXX	X	X	X	X																					
THE			X					XX	X	X	X	XX																				
THZ		XXX	X					XX	X																							
TIA	XXXXX	X	XX	X	X	X	X	XXX	XXX	X	XX		X	XX	XX	X	X	XXX	X	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
TIC	XX	X		X	X	XX	X	XXXX																								
TIO							XXXXXXXXXX	X					XXXXXXXXXXXXXXXXXXXX	XXXX	XXX	X	XXXX	XXXX	XXX	XXXX	XXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
TIR																																
TIY	XXXXX	X	XX	X	XX	X	X	XXXX	XXX	XXXX	XXXX	X	X	XXXXXX	XX	XX																
TKL							X	XX	XXX	X	XX		X	X	X	XX	X															
TKSJ	X						X																									
TLB	XXXX	XXX		XXX	X	XXX	X	XXXX	XX	XX		X	X	XXXX	XX																	
TMA	X	XX	X	XXX				XX	X																							
TMP	XXXX	XX	XX	XX	X	XX	XX	XXXXXXXX	X	XXXX	X	X	XXXXXXXX	XX	X	XXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
TMS	XXXXX		X	XX	X	XX	XX																									
TOA	XXXXXXXX	XX	X	XX	X	XX	XXXX	XX	X	XXXXXXXX	XXXX	XXXXXXXXXX	XX	X	XX	X	XXXX	XX	X	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
TOL	XX	X	XX	XX	X	XXX	XXXX	X	XXX	XXX		XXXXXXXX	XXX	X	X	XXX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
TOO	XX	XX	X	XXXXXXXX			XX	XX	X		X	X	XX	X	XXX	X																
TOUF	X	X	XX	XX			X	X	X																							
TOV			XX				X	X	XXX																							
TPC	XXXX	XX	X				X	XX		XX	X	X	X	X																		
TPP			X				XXX	XX	X																							
TPT	X						X	X																								
TPX				X	X	X																										
TRI	XX	XX	X	XXXX		X	X	XXXXXX	XX	X	XX	X	XX	XXX	X	XX	X	XX	XXXXXX	X	XXX	XXX	X	X	XXXXXXXXXXXXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
TRN							XXX	XX	X																							
TRO	XXXX	X																														
TRT	X	X	X	XXXXXX	XXXXXXXX	X		X	X	XXXX	X	X	XXXX	X	X	XXXX																
TSI																																
TSM	X	XX																														
TSRJ																																
TTA	XXXXXXXX		X	X	X	X	XX	XXXX	X	X	XXXX	X	XX	X	XXXX	XX	X	XXXX	X	X	XXXXXX	X	XXX	XXX	X	XX	X	XXXX	X	XX	X	
TTG	X	X	XXX		X	XX	XX	X	XX	XX		X	XXXX	XX	XX	X	X															
TUL			XXXX		X	X		XXXXXXXX	XXXX	XX	X	X	X	XXXXXX	X	XX	X	XXX	XX	X	XXX	XX	X	XXXX	X	XX	X	XXX	X	XX	XXX	
TUNG	X	X	XX	X	X		X	XXX																								
TVO																																
TWC	X	X	X		X	X	X	X	X	XX		XXX	X	X	X	XX	X	X														
TWD	X	X	X				X	X	X	X																						
TWF1	X				X		X	X	X	XX		X																				
TWG	X				X		X	X	X	XX																						
TWK																																
TWO	X	X	X				X	X	X	X																						
TWZ	X	X																														
TXNY																																
UCC	X		X				X	X	X																							
ULC			X				X	X	XX																							
UNM																																
UPA	X	XXXXXX					X	XX	XX	X	XXXXXXXX	XX		X	X	XX	XX	X														
UPP	XXXXX			X	XX	X	XXXX	XXXX	X	XX	XX	XXXX	X	XXXX	X	XXXX	X															
UOSK	X			X																												

